

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U030520\
 Data File : VU037098.D
 Acq On : 05 Mar 2020 21:06
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Quant Time: Mar 05 22:40:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 05 22:35:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	251425	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	243796	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	105701	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	78531	37.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	74.38%
7) Chloroethane-d5	1.93	69	78906	45.17	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.34%
11) 1,1-Dichloroethene-d2	2.59	63	153267	43.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.70%
21) 2-Butanone-d5	4.67	46	151825	107.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.20%
24) Chloroform-d	5.10	84	165410	51.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.60%
26) 1,2-Dichloroethane-d4	5.74	65	110439	50.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.22%
32) Benzene-d6	5.76	84	336015	47.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.32%
36) 1,2-Dichloropropane-d6	6.72	67	113377	49.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.28%
41) Toluene-d8	7.92	98	307244	46.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.94%
43) trans-1,3-Dichloropropene-	8.20	79	47920	45.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.30%
47) 2-Hexanone-d5	8.66	63	111251	99.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.61%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	167139	51.90	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	102152	49.44	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.88%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	104175	48.849	ug/L	100
3) Chloromethane	1.54	50	120789	49.231	ug/L	99
5) Vinyl chloride	1.62	62	128360	50.721	ug/L	100
6) Bromomethane	1.87	94	56991	43.892	ug/L	98
8) Chloroethane	1.95	64	79233	52.229	ug/L	99
9) Trichlorofluoromethane	2.16	101	141109	52.573	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	84378	52.552	ug/L	99
12) 1,1-Dichloroethene	2.60	96	81732	50.329	ug/L	86
13) Acetone	2.65	43	108166	74.249	ug/L	100
14) Carbon disulfide	2.82	76	237302	46.185	ug/L	100
15) Methyl Acetate	2.98	43	119295	53.725	ug/L	100
16) Methylene chloride	3.08	84	105477	53.251	ug/L	99
17) trans-1,2-Dichloroethene	3.39	96	88119	50.512	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	299391	52.796	ug/L	100
19) 1,1-Dichloroethane	3.91	63	182872	53.948	ug/L	100
20) cis-1,2-Dichloroethene	4.71	96	104548	53.596	ug/L	97
22) 2-Butanone	4.75	43	173800	98.935	ug/L	99

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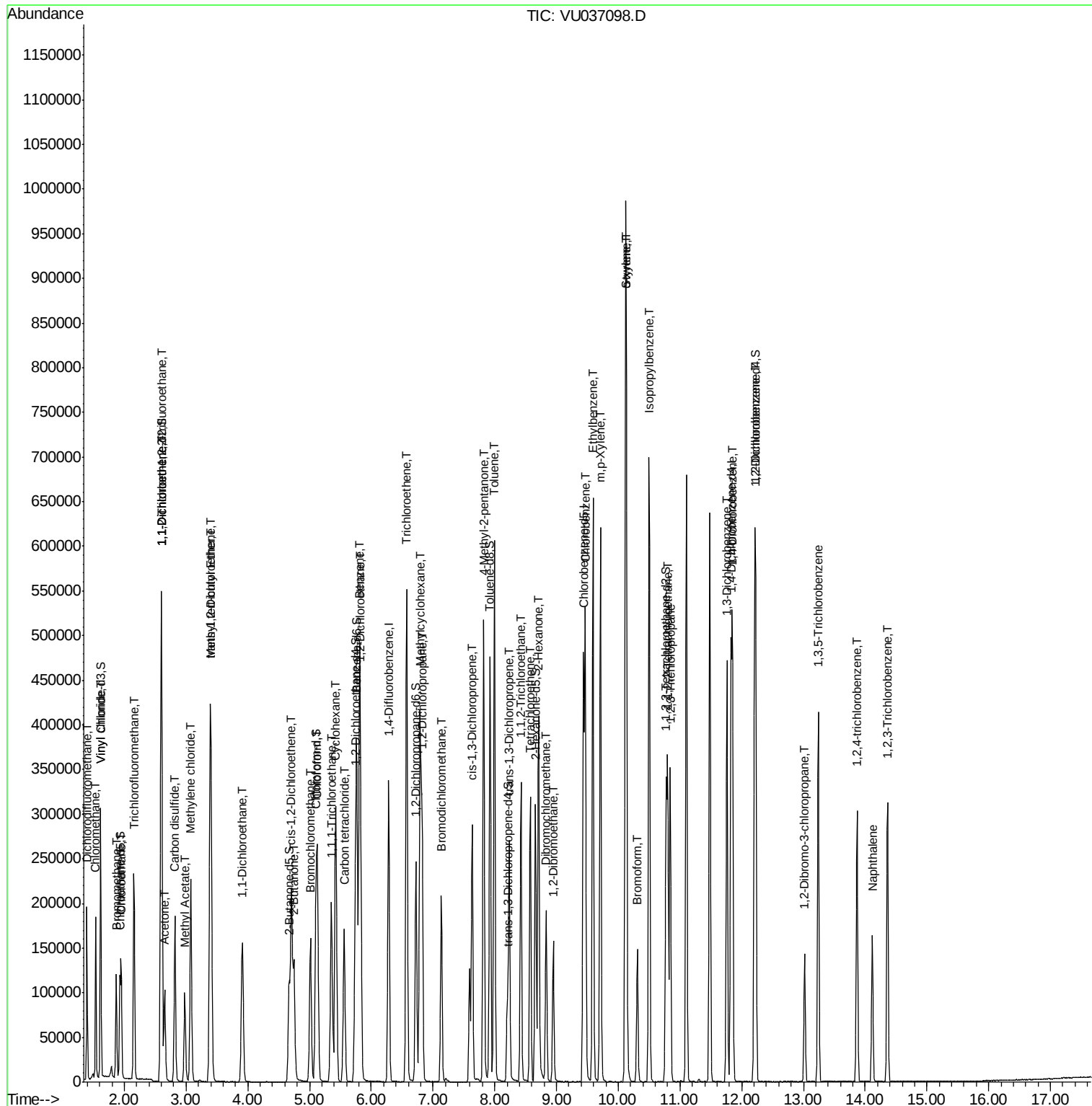
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	46475	52.610	ug/L	96
25) Chloroform	5.13	83	179508	54.884	ug/L	99
27) 1,2-Dichloroethane	5.83	62	146640	55.071	ug/L	100
29) Cyclohexane	5.42	56	154812	47.852	ug/L	98
30) 1,1,1-Trichloroethane	5.35	97	138218	52.879	ug/L	98
31) Carbon tetrachloride	5.56	117	109861	53.623	ug/L	98
33) Benzene	5.81	78	405373	52.633	ug/L	100
34) Trichloroethene	6.57	95	188910	99.794	ug/L	98
35) Methylcyclohexane	6.79	83	157888	48.106	ug/L	100
37) 1,2-Dichloropropane	6.82	63	110483	53.276	ug/L	100
38) Bromodichloromethane	7.13	83	131422	53.689	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	160652	50.291	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	331768	108.572	ug/L	99
42) Toluene	7.99	91	428967	52.278	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	140343	50.645	ug/L	97
45) 1,1,2-Trichloroethane	8.42	97	100301	54.390	ug/L	99
46) Tetrachloroethene	8.57	164	62674	50.258	ug/L	98
48) 2-Hexanone	8.71	43	253608	104.003	ug/L	99
49) Dibromochloromethane	8.83	129	93200	53.246	ug/L	98
50) 1,2-Dibromoethane	8.95	107	101541	52.655	ug/L	98
51) Chlorobenzene	9.47	112	256373	52.731	ug/L	99
52) Ethylbenzene	9.59	91	455472	51.204	ug/L	99
53) m,p-Xylene	9.71	106	166671	51.080	ug/L	96
54) o-xylene	10.12	106	167568	51.491	ug/L	99
55) Styrene	10.13	104	275001	51.693	ug/L	96
56) Isopropylbenzene	10.50	105	434037	51.927	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	178080	54.015	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	145360	54.488	ug/L	99
61) Bromoform	10.31	173	63644	53.257	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	175551	51.197	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	176251	52.026	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	182282	53.242	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	37132	54.668	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	115705	53.162	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	85272	52.293	ug/L	99
69) Naphthalene	14.12	128	127154	44.173	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	87525	53.712	ug/L	99

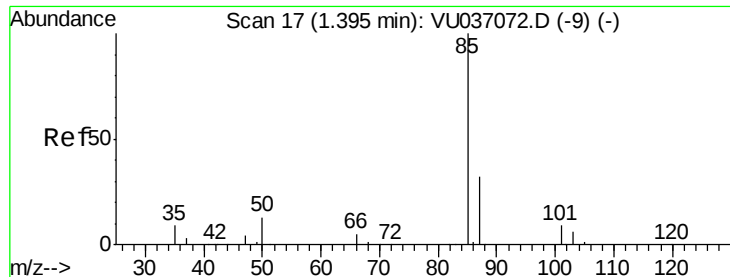
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.849 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

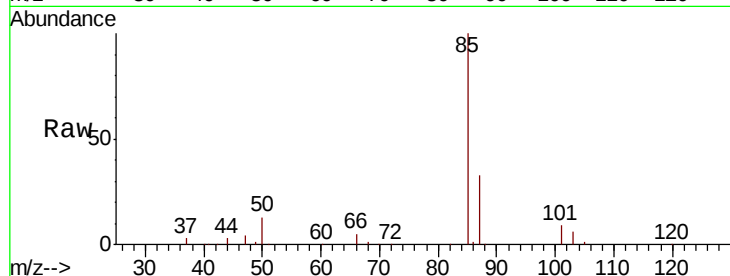
VSTD05049

Tot Ion: 85 Resp: 104175

Ion Ratio Lower Upper

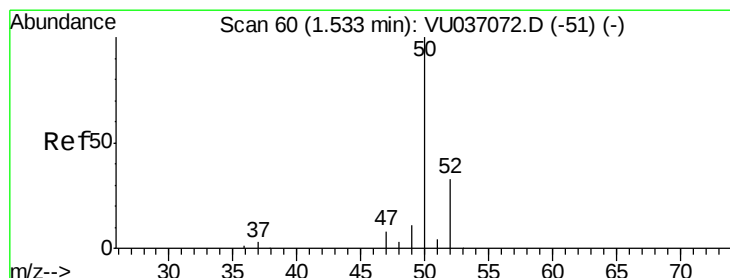
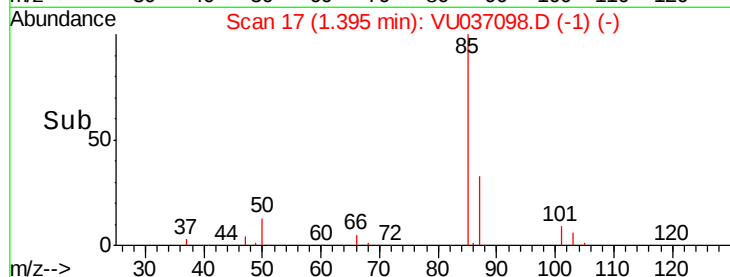
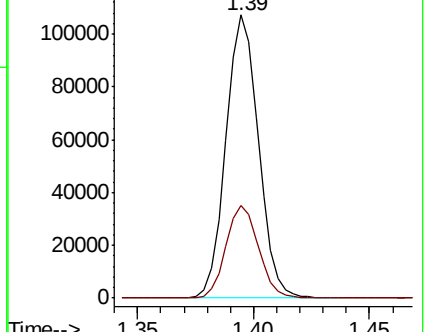
85 100

87 32.5 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU037072.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037098.D (-1) (-)



#3

Chloromethane

Concen: 49.231 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037098.D

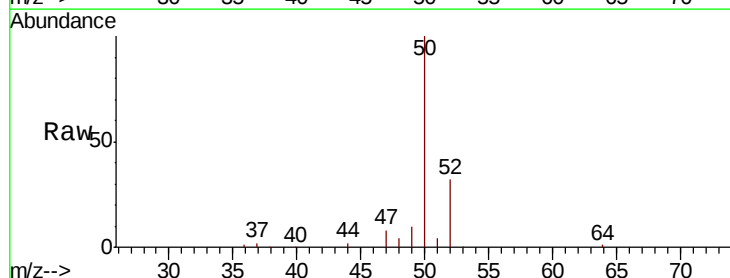
Acq: 05 Mar 2020 21:06

Tgt Ion: 50 Resp: 120789

Ion Ratio Lower Upper

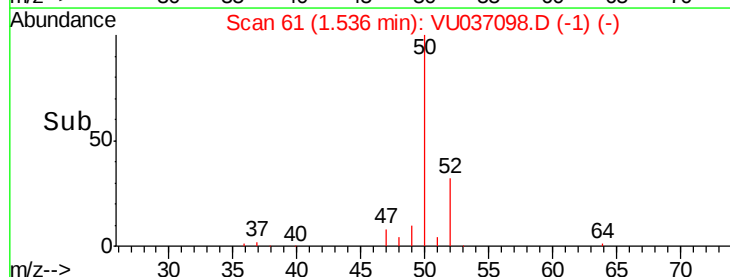
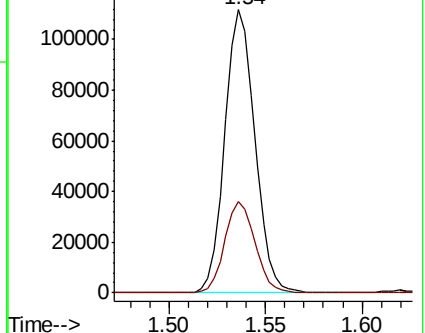
50 100

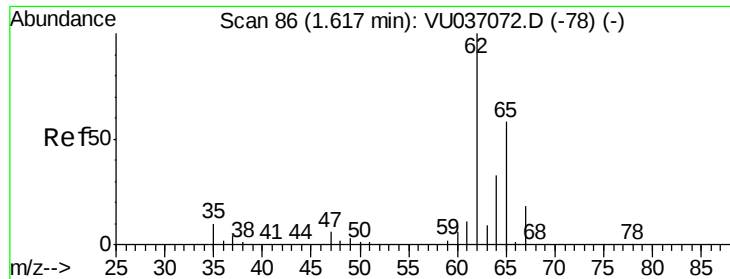
52 32.4 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU037072.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU037098.D (-1) (-)





#5

Vinyl chloride

Concen: 50.721 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

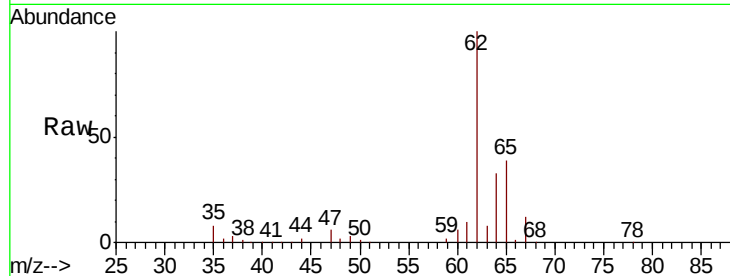
VSTD05049

Tot Ion: 62 Resp: 128360

Ion Ratio Lower Upper

62 100

64 32.9 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU037072.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU037072.D (-78) (-)

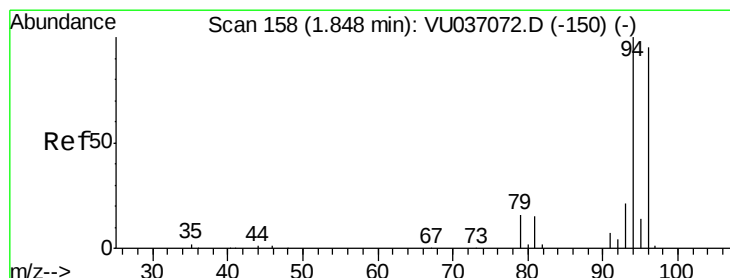
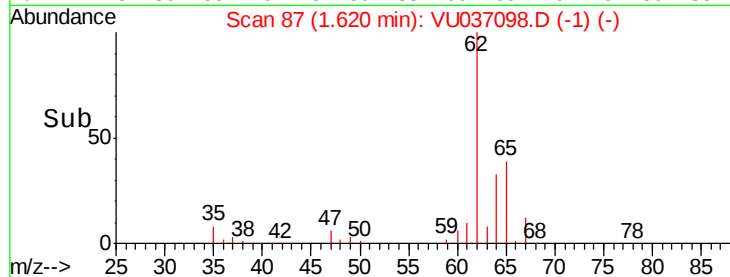
1.62

100000

50000

0

Time-->



#6

Bromomethane

Concen: 43.892 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.02 min

Lab File: VU037098.D

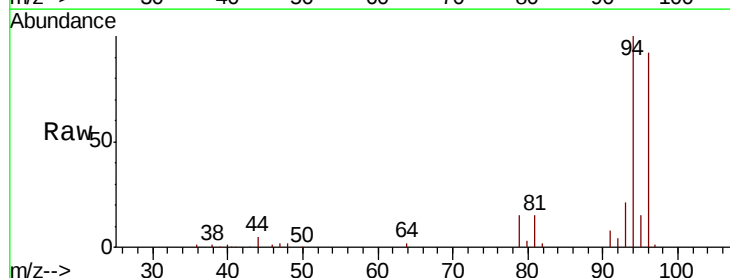
Acq: 05 Mar 2020 21:06

Tgt Ion: 94 Resp: 56991

Ion Ratio Lower Upper

94 100

96 92.4 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU037072.D (-150) (-)

Ion 96.00 (95.70 to 96.70): VU037072.D (-150) (-)

1.87

50000

40000

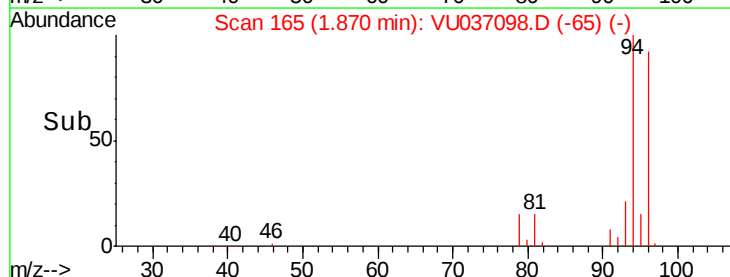
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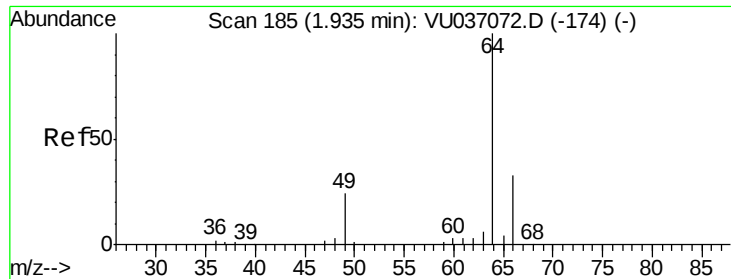
20000

10000

0

Time-->

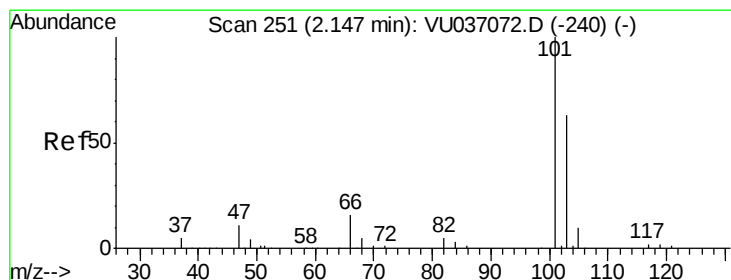
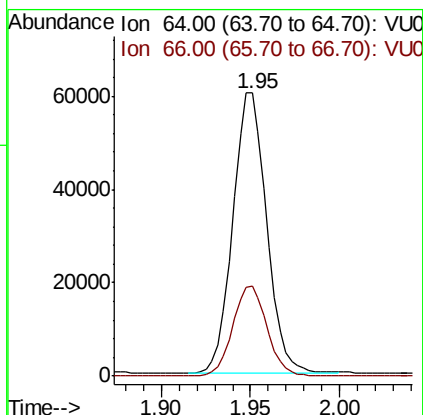
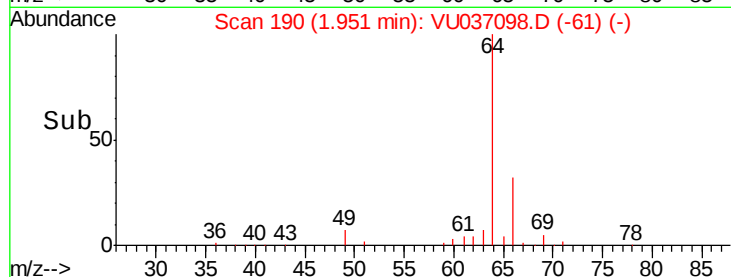
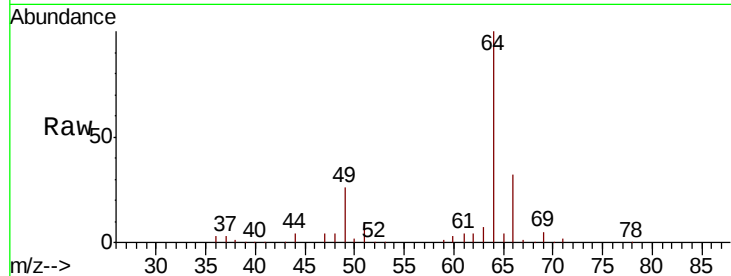




#8
Chloroethane
Concen: 52.229 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.02 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

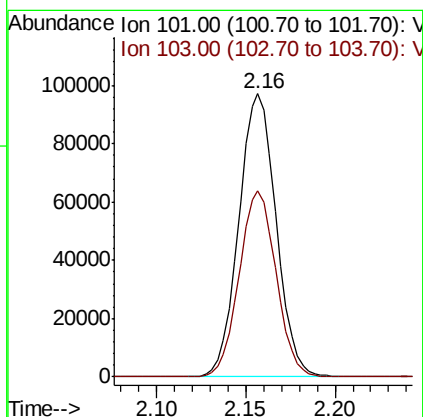
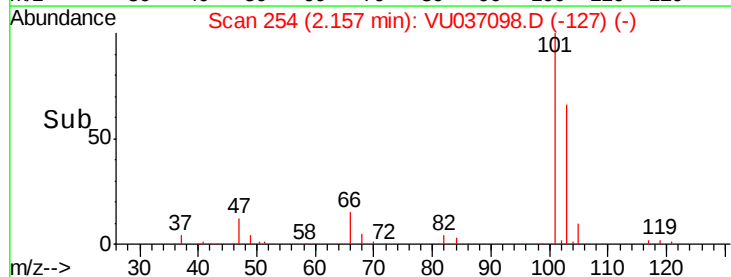
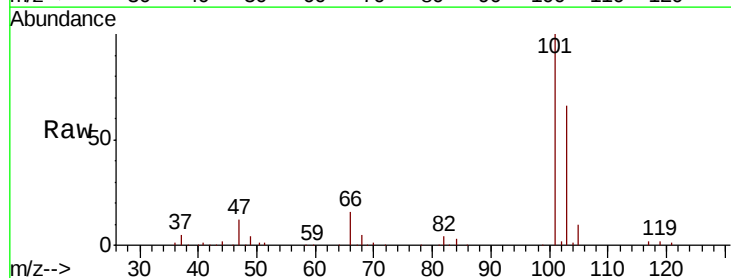
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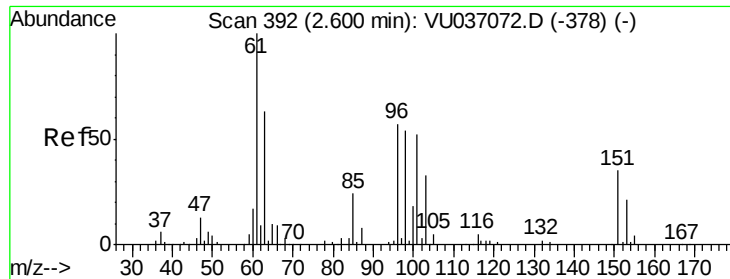
Tot Ion: 64 Resp: 79233
Ion Ratio Lower Upper
64 100
66 31.6 22.5 41.9



#9
Trichlorofluoromethane
Concen: 52.573 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.01 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Tgt Ion:101 Resp: 141109
Ion Ratio Lower Upper
101 100
103 65.1 50.9 76.3





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 52.552 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

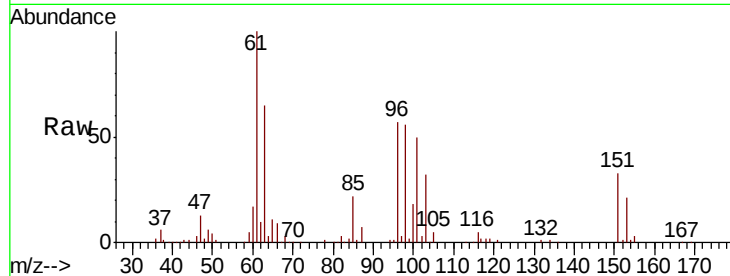
Tot Ion:101 Resp: 84378

Ion Ratio Lower Upper

101 100

85 44.7 36.4 54.6

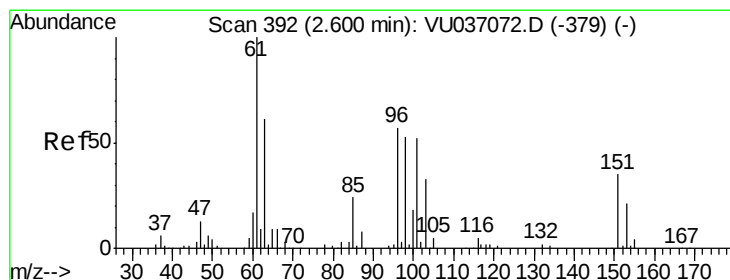
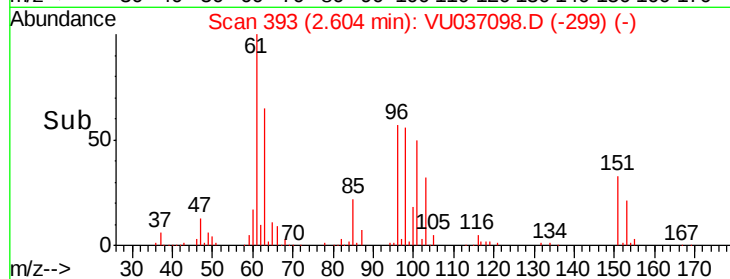
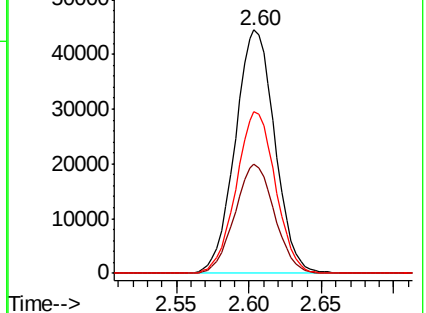
151 65.8 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 50.329 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

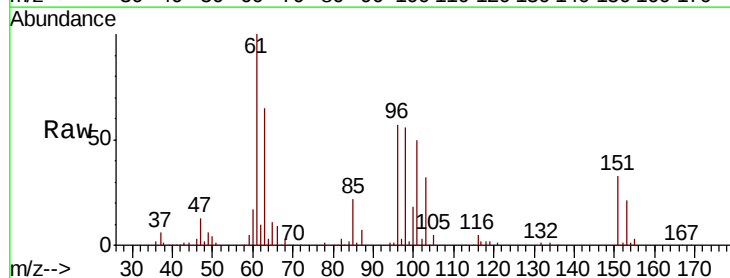
Tgt Ion: 96 Resp: 81732

Ion Ratio Lower Upper

96 100

61 175.7 127.5 236.7

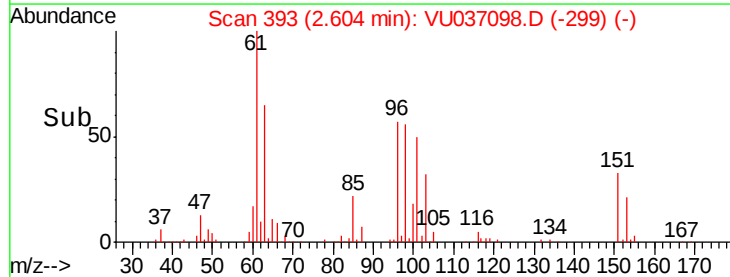
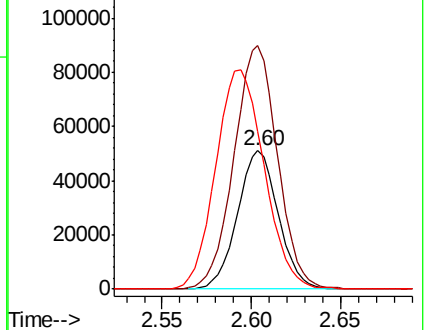
63 113.6 101.4 188.2

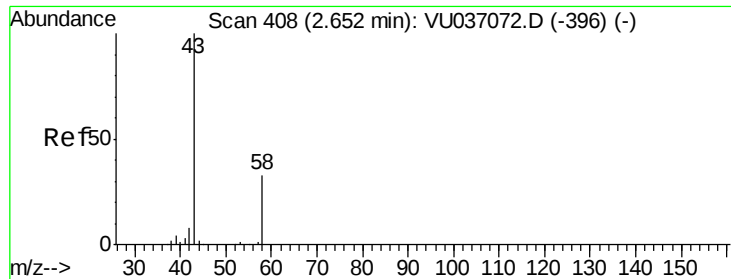


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

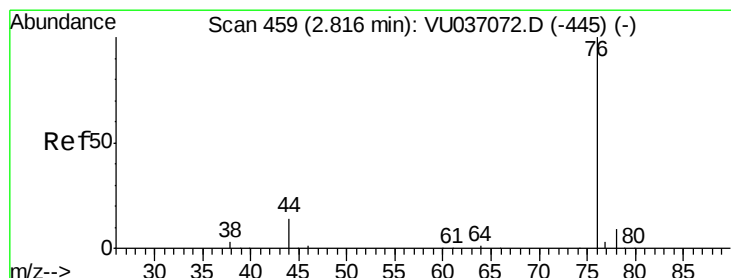
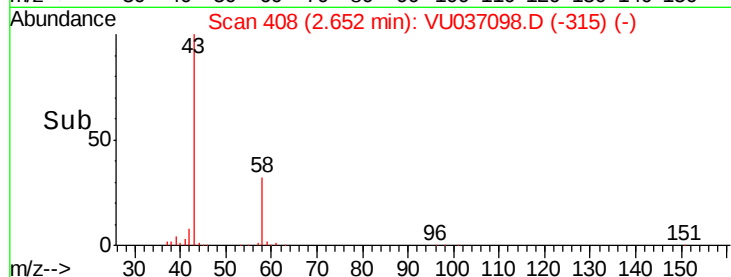
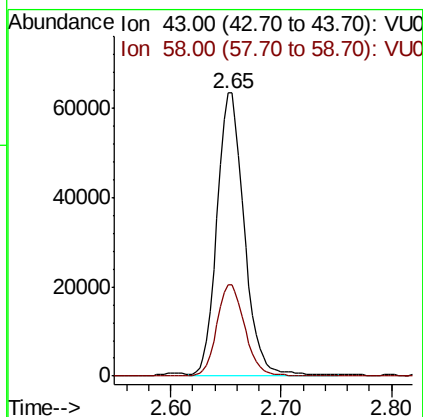
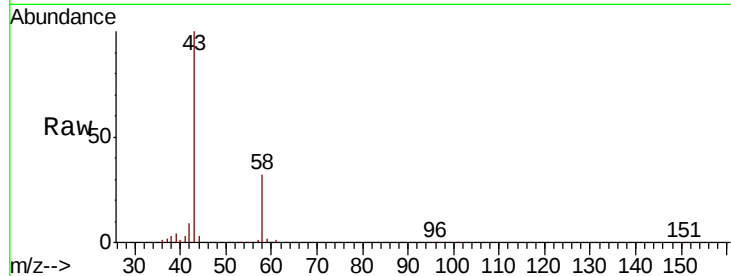




#13
Acetone
Concen: 74.249 ug/L
RT: 2.65 min Scan# 408
Delta R.T. -0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

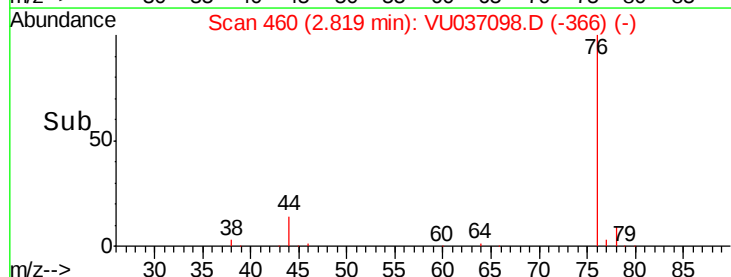
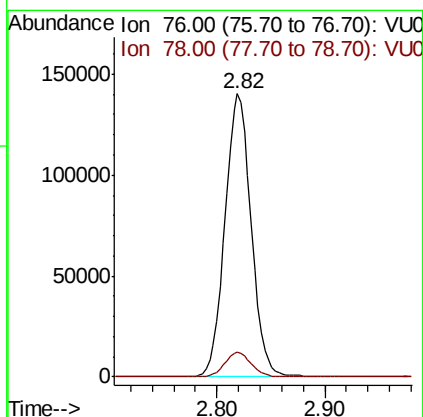
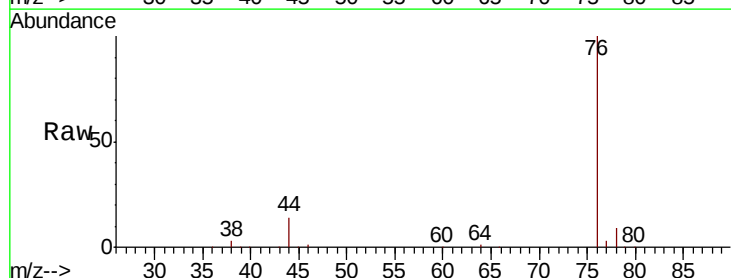
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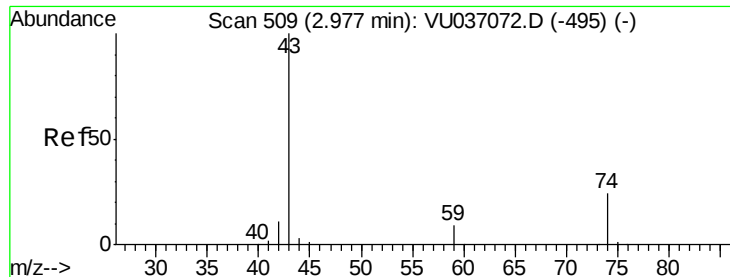
Tot Ion: 43 Resp: 108166
Ion Ratio Lower Upper
43 100
58 32.4 0.0 64.6



#14
Carbon disulfide
Concen: 46.185 ug/L
RT: 2.82 min Scan# 460
Delta R.T. 0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Tgt Ion: 76 Resp: 237302
Ion Ratio Lower Upper
76 100
78 8.8 7.1 10.7

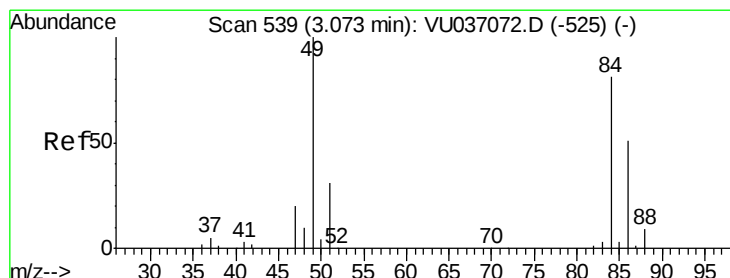
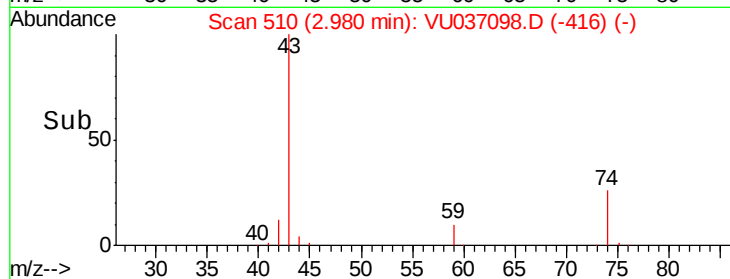
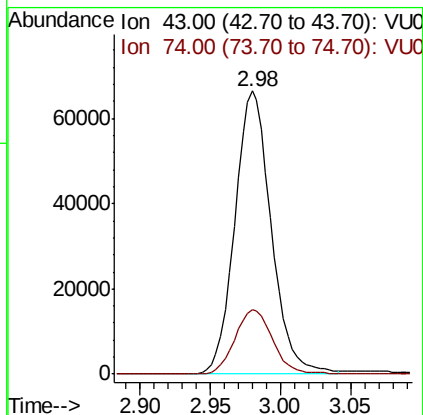
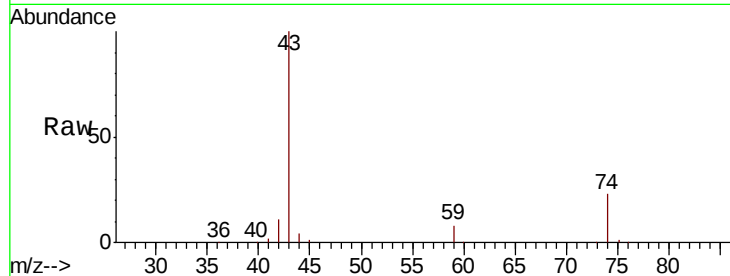




#15
Methvl Acetate
Concen: 53.725 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

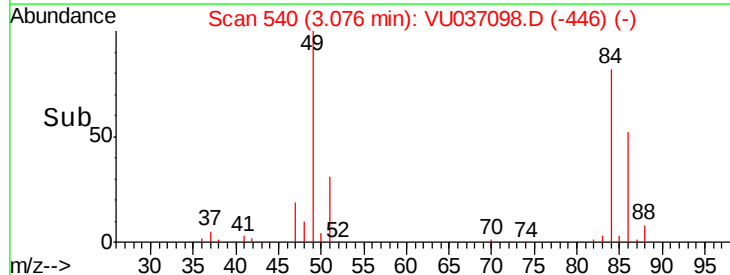
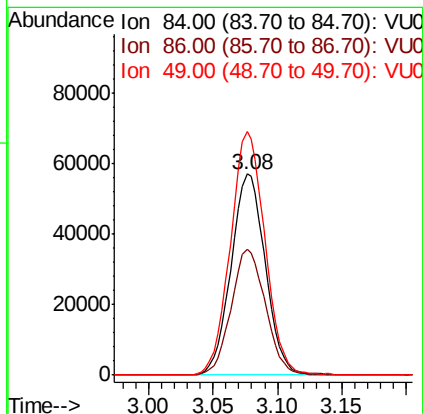
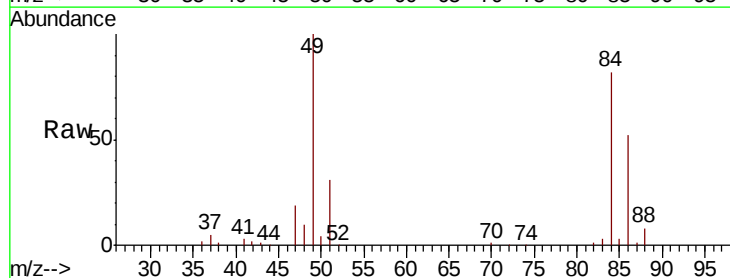
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

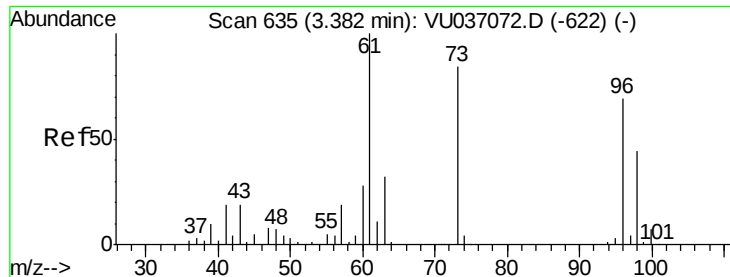
Tot Ion: 43 Resp: 119295
Ion Ratio Lower Upper
43 100
74 23.8 19.0 28.4



#16
Methylene chloride
Concen: 53.251 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Tgt Ion: 84 Resp: 105477
Ion Ratio Lower Upper
84 100
86 62.8 44.4 82.5
49 121.3 85.9 159.5

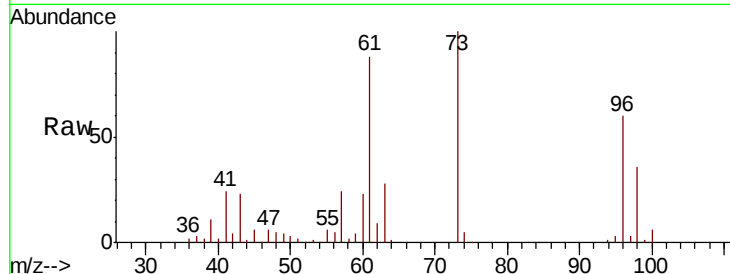




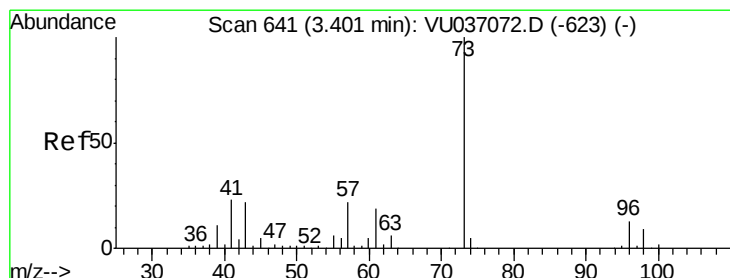
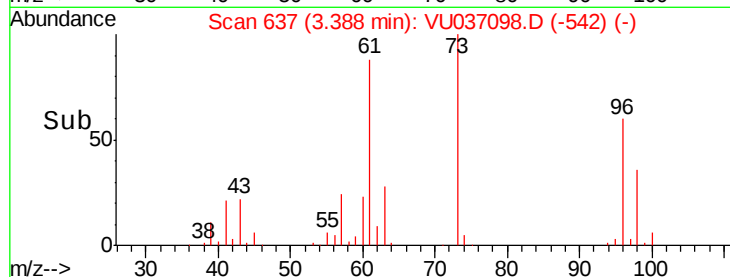
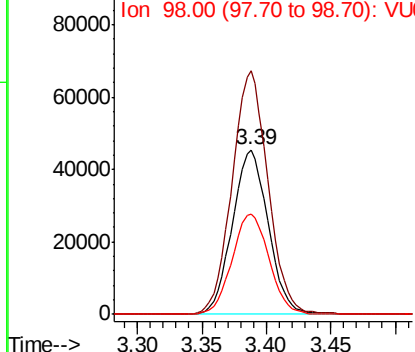
#17
trans-1,2-Dichloroethene
Concen: 50.512 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.01 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tot Ion: 96 Resp: 88119
Ion Ratio Lower Upper
96 100
61 147.9 103.8 192.8
98 61.2 44.2 82.2

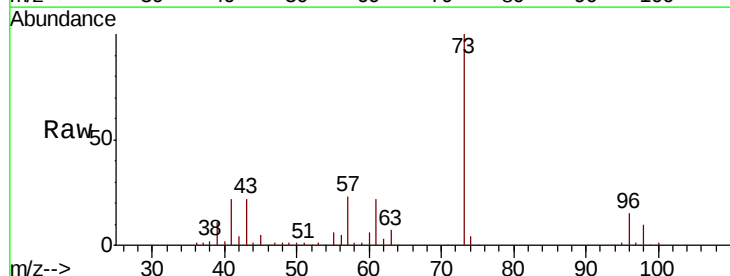


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

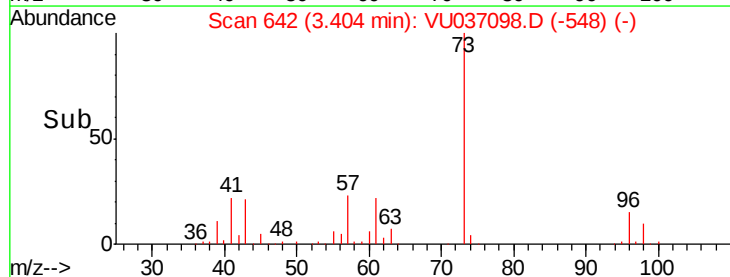
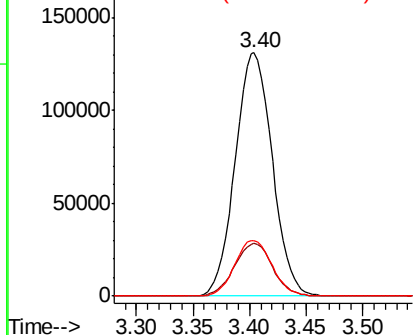


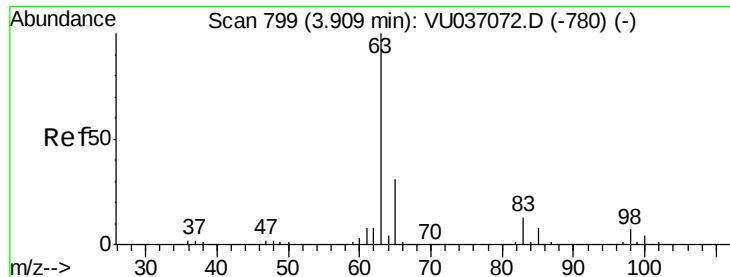
#18
Methyl tert-butyl Ether
Concen: 52.796 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Tgt Ion: 73 Resp: 299391
Ion Ratio Lower Upper
73 100
43 22.4 18.1 27.1
57 23.0 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 53.948 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

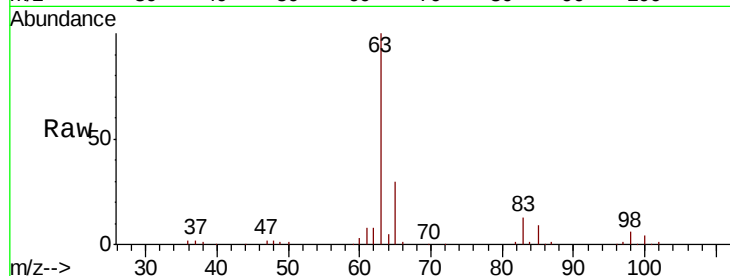
Tot Ion: 63 Resp: 182872

Ion Ratio Lower Upper

63 100

65 30.5 21.3 39.5

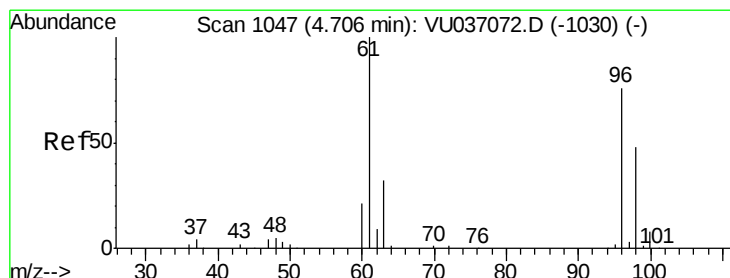
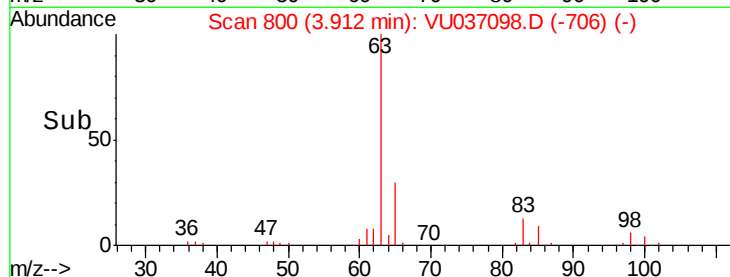
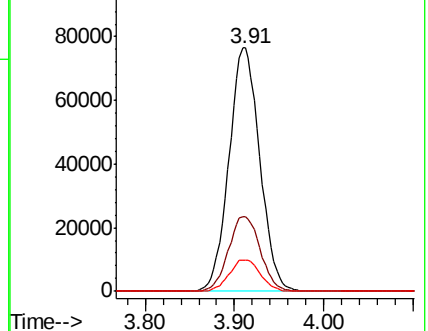
83 13.0 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU037072.D (-780) (-)

Ion 65.00 (64.70 to 65.70): VU037072.D (-780) (-)

Ion 83.00 (82.70 to 83.70): VU037072.D (-780) (-)



#20

cis-1,2-Dichloroethene

Concen: 53.596 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

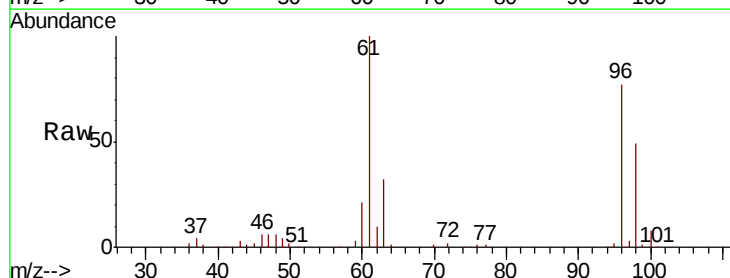
Tgt Ion: 96 Resp: 104548

Ion Ratio Lower Upper

96 100

61 129.1 93.1 172.9

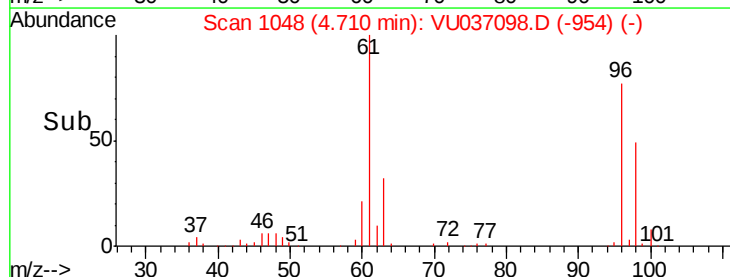
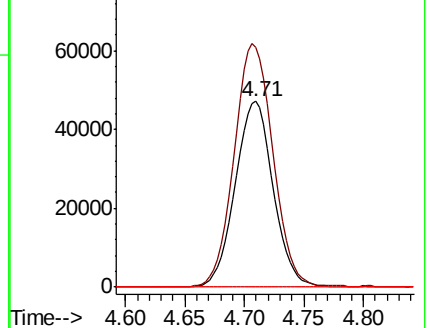
68 0.0 0.0 0.0

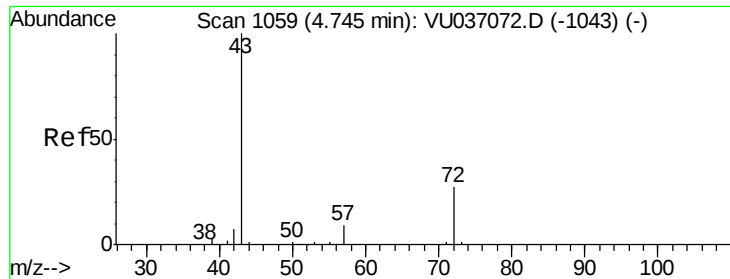


Abundance Ion 96.00 (95.70 to 96.70): VU037072.D (-1030) (-)

Ion 61.00 (60.70 to 61.70): VU037072.D (-1030) (-)

Ion 68.00 (67.70 to 68.70): VU037072.D (-1030) (-)





#22

2-Butanone

Concen: 98.935 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

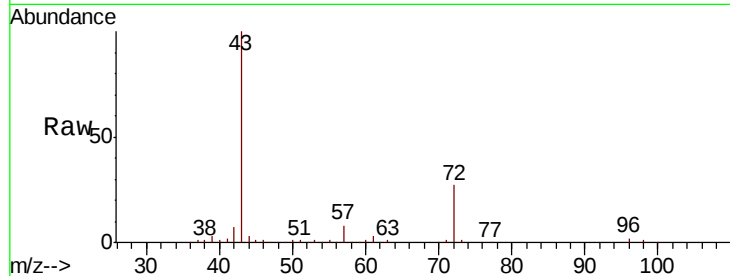
VSTD05049

Tot Ion: 43 Resp: 173800

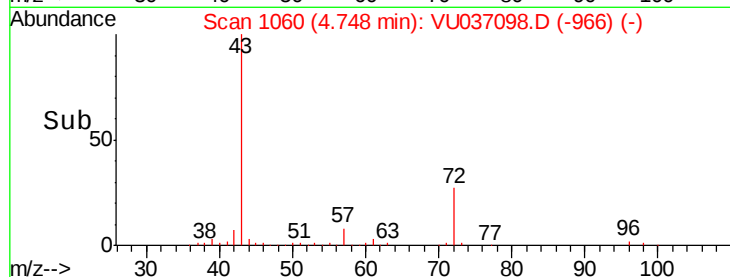
Ion Ratio Lower Upper

43 100

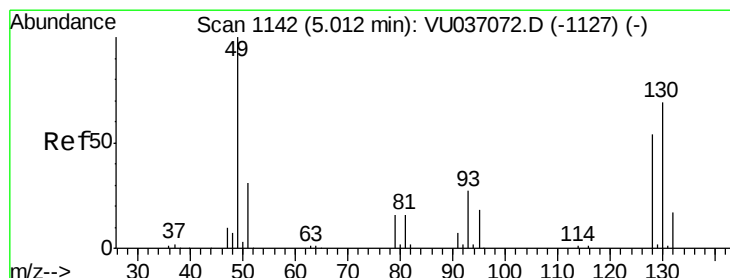
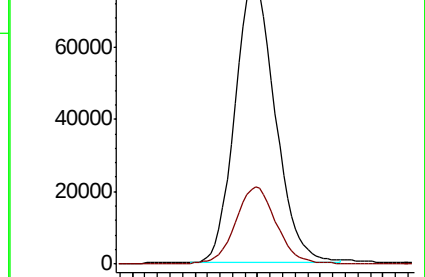
72 28.1 13.9 41.6



Abundance Ion 43.00 (42.70 to 43.70): VU037098.D (-966) (-)



Ion 72.00 (71.70 to 72.70): VU037098.D (-966) (-)



#23

Bromochloromethane

Concen: 52.610 ug/L

RT: 5.01 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Tgt Ion: 128 Resp: 46475

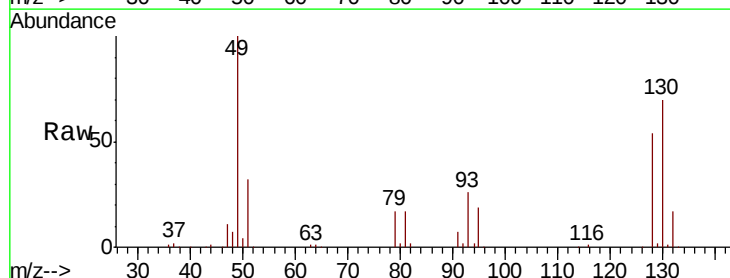
Ion Ratio Lower Upper

128 100

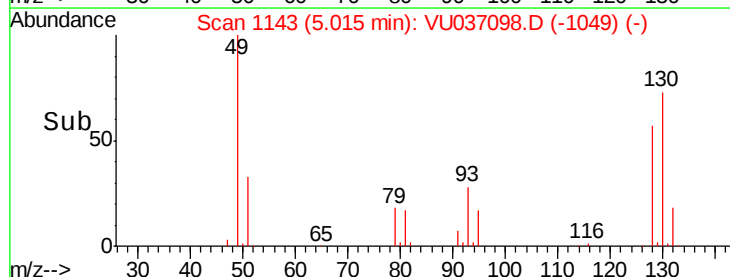
49 186.0 126.5 234.9

130 129.8 86.0 159.8

51 59.8 47.3 70.9



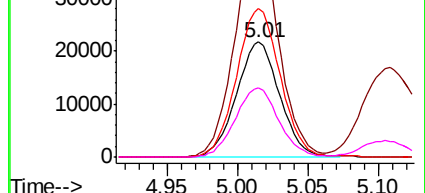
Abundance Ion 128.00 (127.70 to 128.70): VU037098.D (-1049) (-)

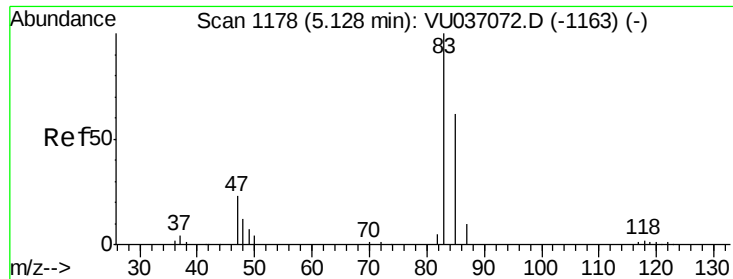


Ion 49.00 (48.70 to 49.70): VU037098.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037098.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037098.D (-1049) (-)

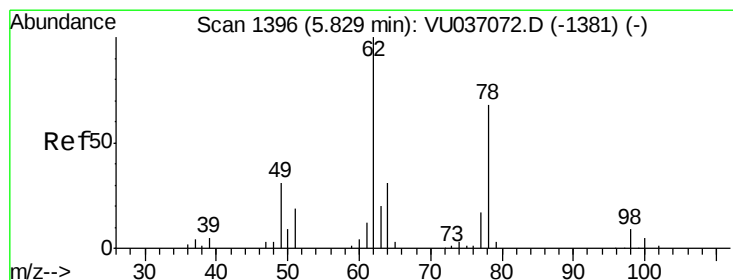
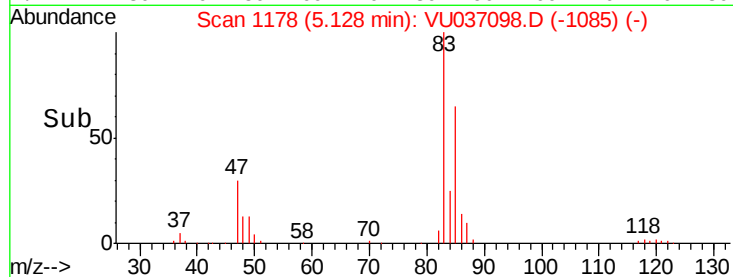
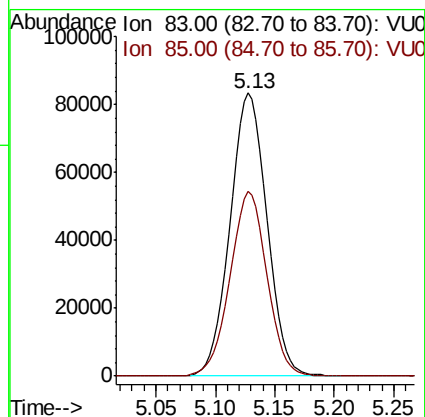
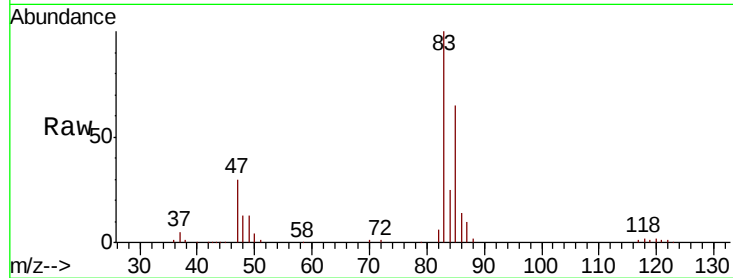




#25
Chloroform
Concen: 54.884 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

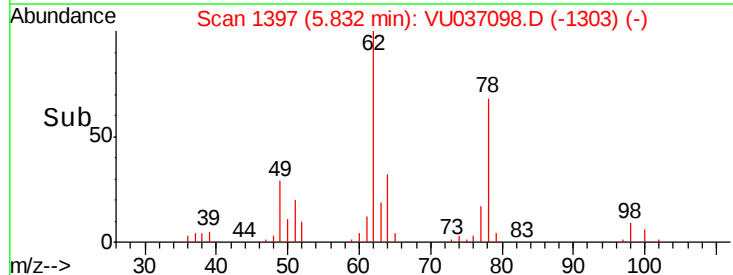
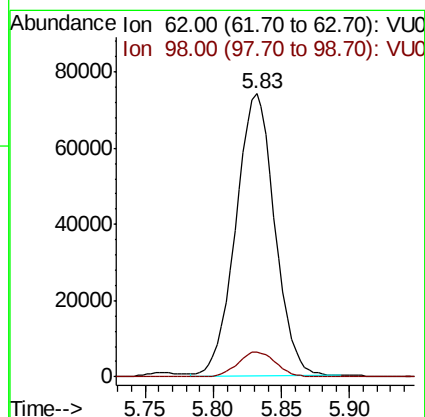
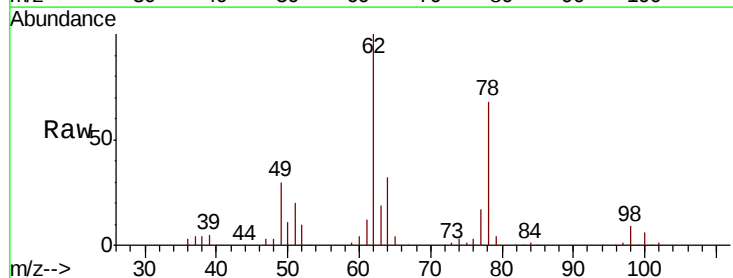
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

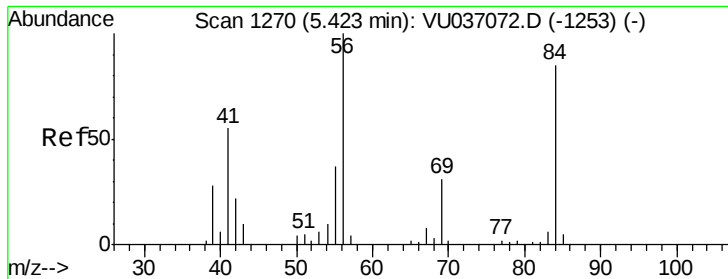
Tot Ion: 83 Resp: 179508
Ion Ratio Lower Upper
83 100
85 65.2 45.1 83.9



#27
1,2-Dichloroethane
Concen: 55.071 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Tgt Ion: 62 Resp: 146640
Ion Ratio Lower Upper
62 100
98 8.9 7.1 10.7

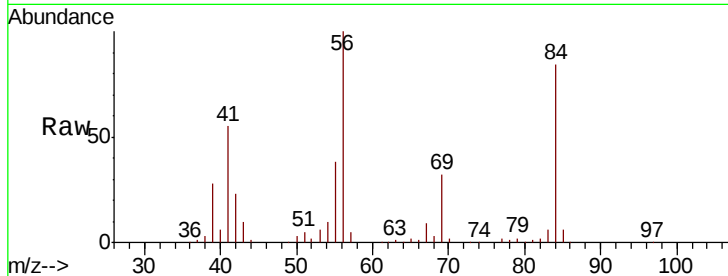




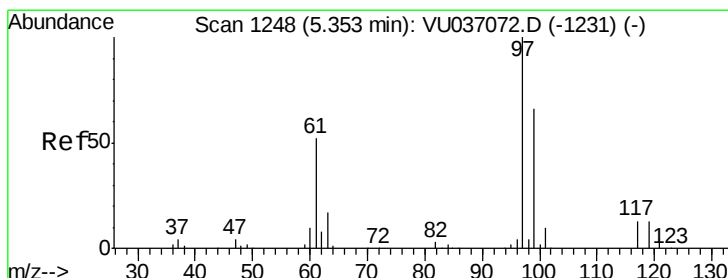
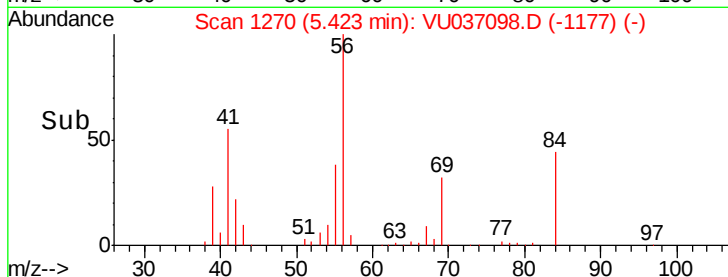
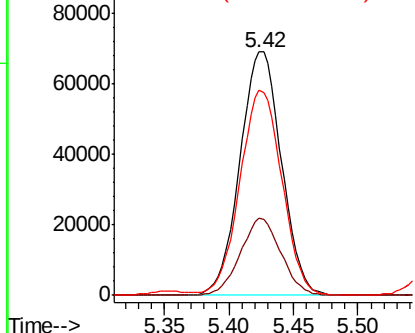
#29
Cyclohexane
Concen: 47.852 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tot Ion: 56 Resp: 154812
Ion Ratio Lower Upper
56 100
69 30.9 24.6 37.0
84 85.6 67.0 100.4

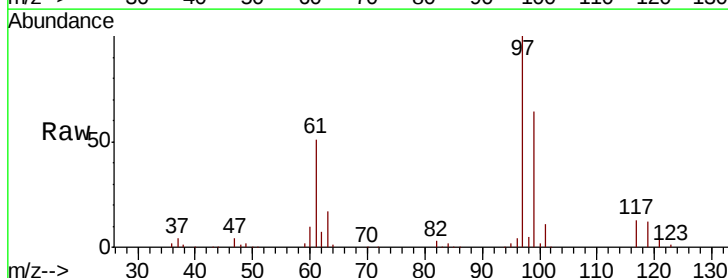


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

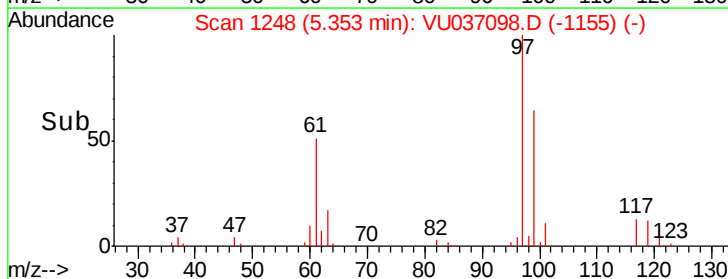
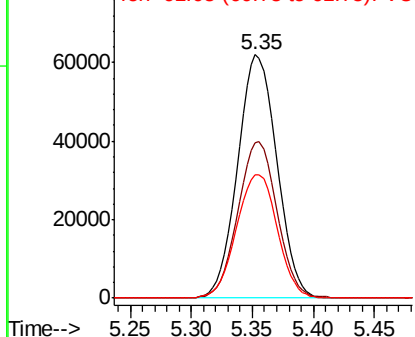


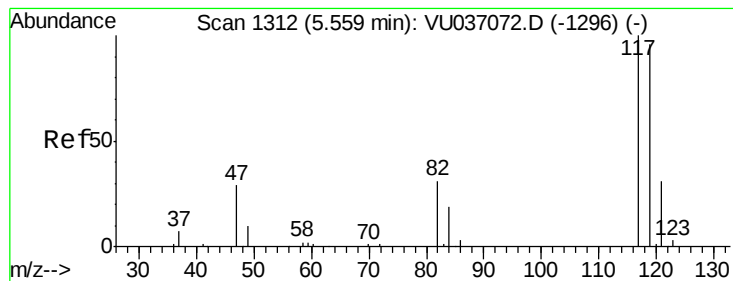
#30
1,1,1-Trichloroethane
Concen: 52.879 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Tgt Ion: 97 Resp: 138218
Ion Ratio Lower Upper
97 100
99 64.1 50.4 75.6
61 52.7 40.3 60.5



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 53.623 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

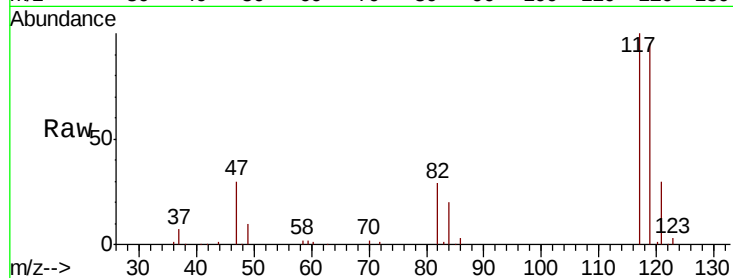
VSTD05049

Tot Ion:117 Resp: 109861

Ion Ratio Lower Upper

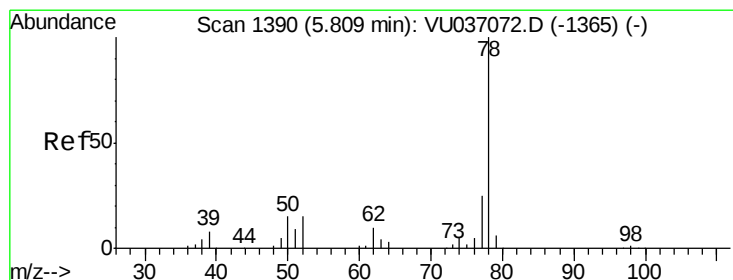
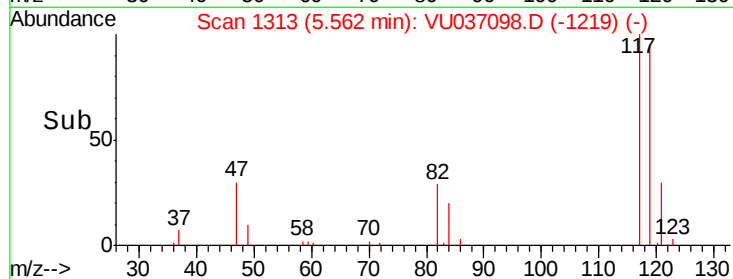
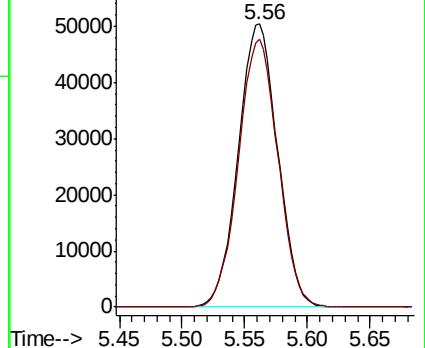
117 100

119 94.9 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.633 ug/L

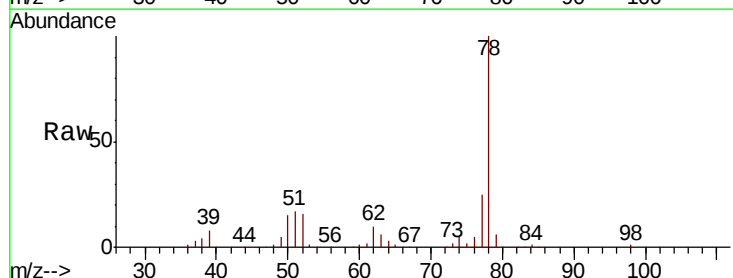
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

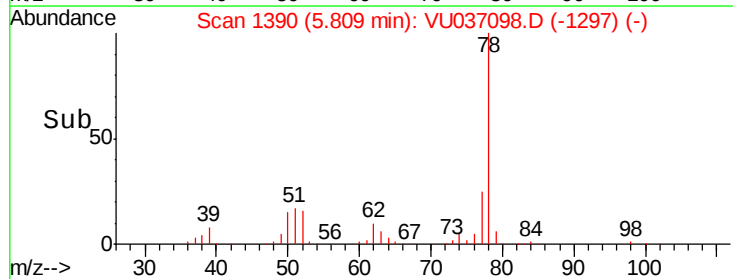
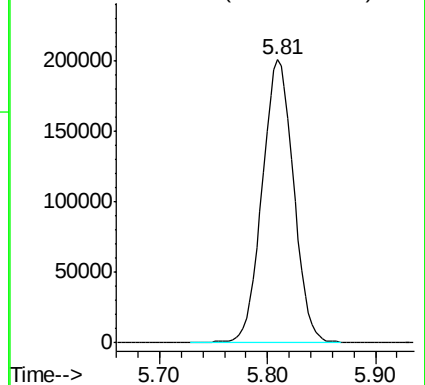
Lab File: VU037098.D

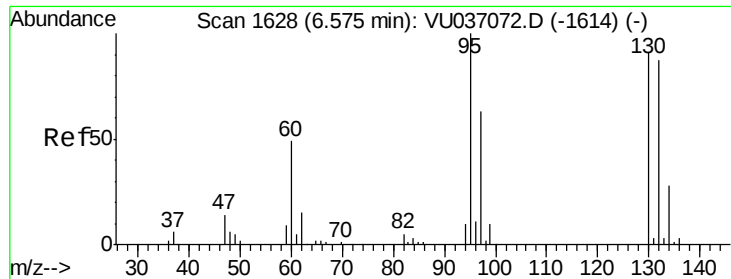
Acq: 05 Mar 2020 21:06

Tgt Ion: 78 Resp: 405373



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 99.794 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tot Ion: 95 Resp: 188910

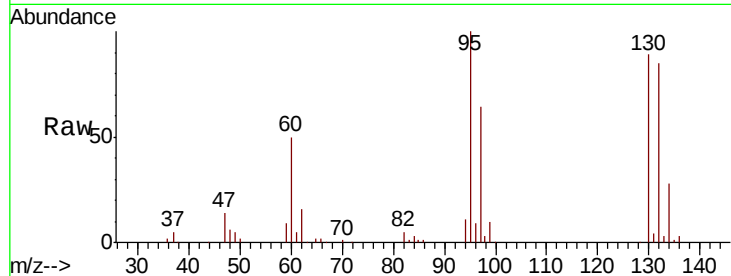
Ion Ratio Lower Upper

95 100

97 64.0 44.1 81.9

132 84.7 60.6 112.6

130 89.1 64.9 120.5

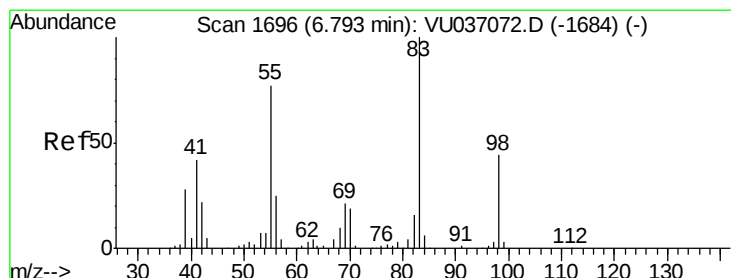
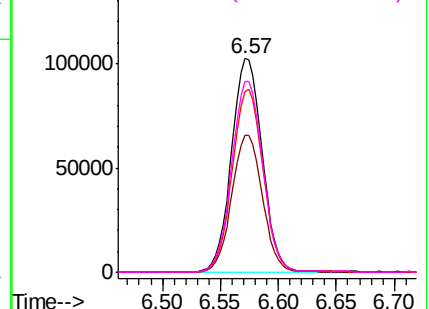
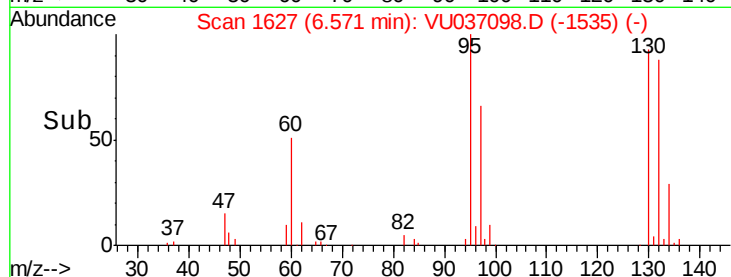


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.106 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

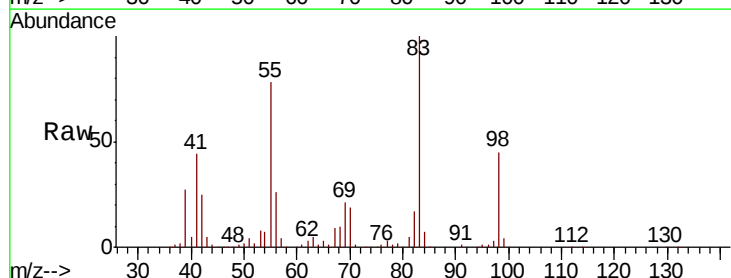
Tgt Ion: 83 Resp: 157888

Ion Ratio Lower Upper

83 100

55 78.1 62.6 93.8

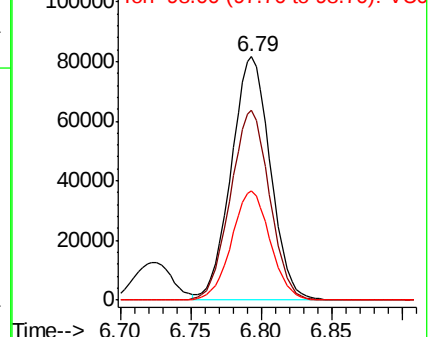
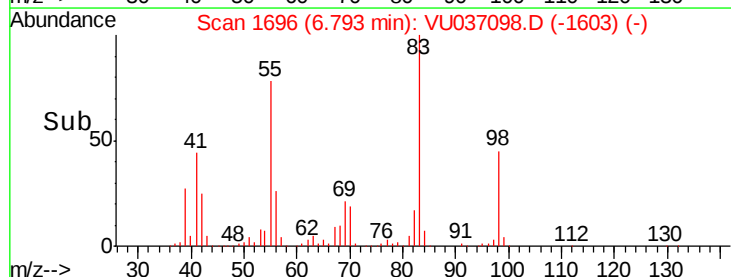
98 44.3 35.1 52.7

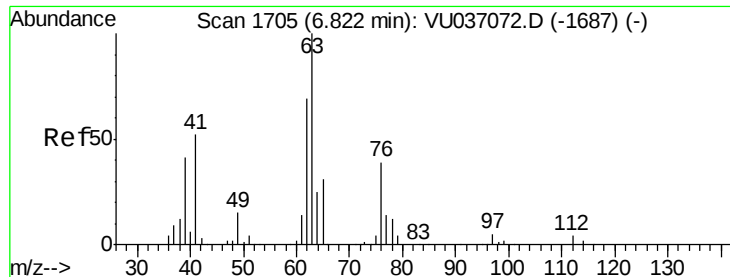


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

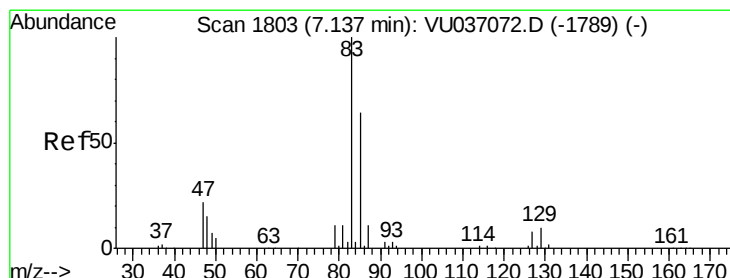
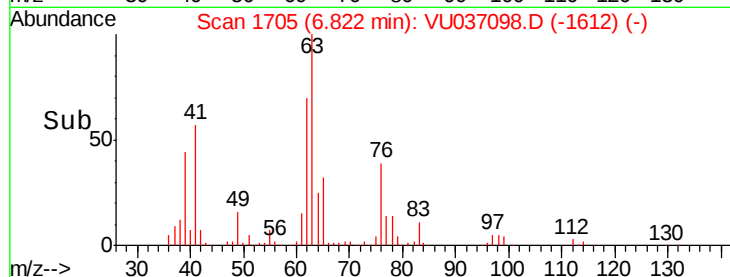
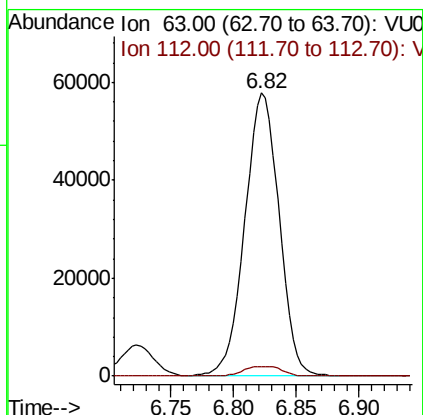
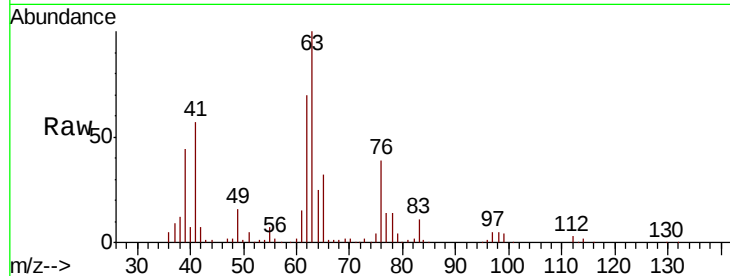




#37
 1,2-Dichloropropane
 Concen: 53.276 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

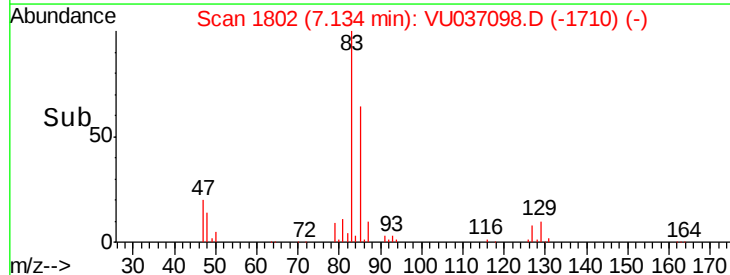
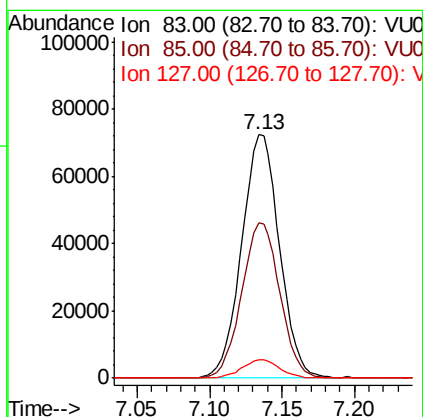
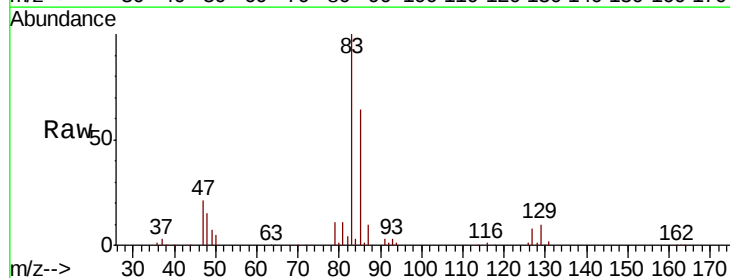
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

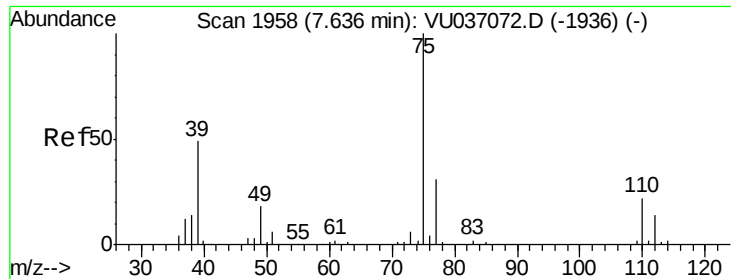
Tot Ion: 63 Resp: 110483
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.0 4.6



#38
 Bromodichloromethane
 Concen: 53.689 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

Tgt Ion: 83 Resp: 131422
 Ion Ratio Lower Upper
 83 100
 85 63.8 43.6 81.0
 127 7.6 6.0 9.0

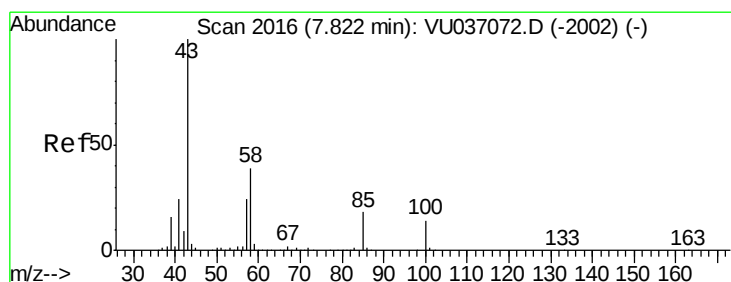
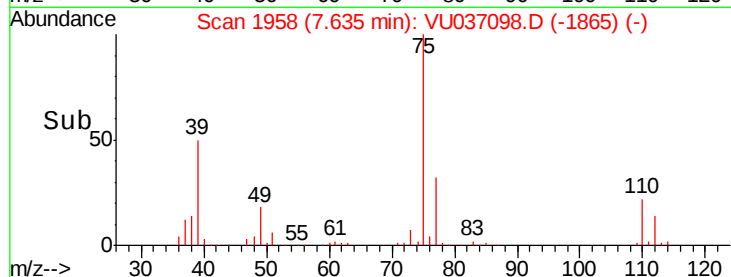
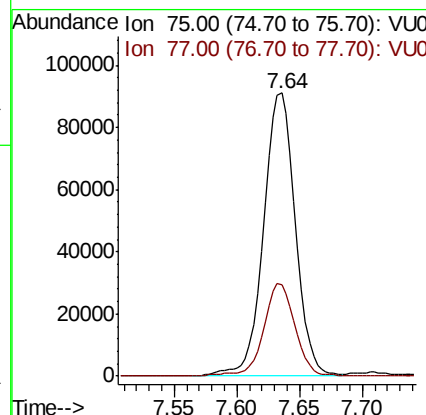
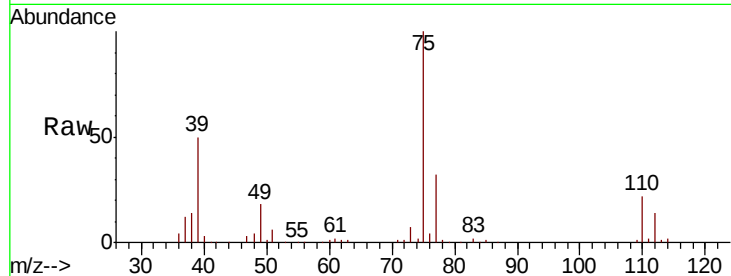




#39
 cis-1,3-Dichloropropene
 Concen: 50.291 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

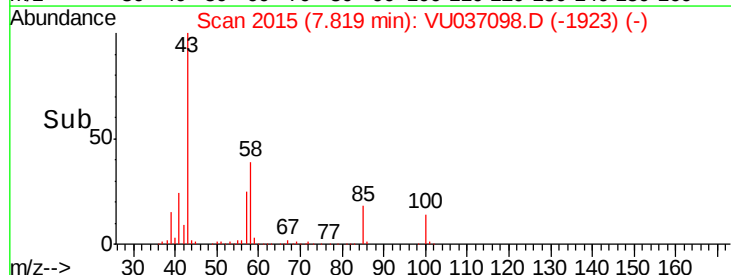
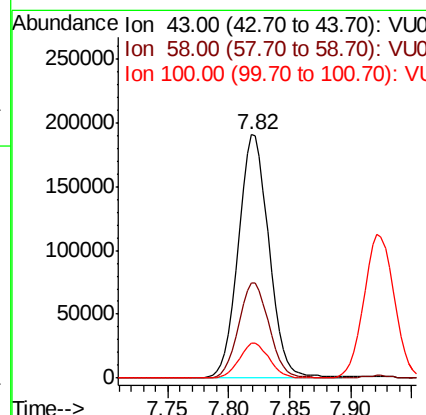
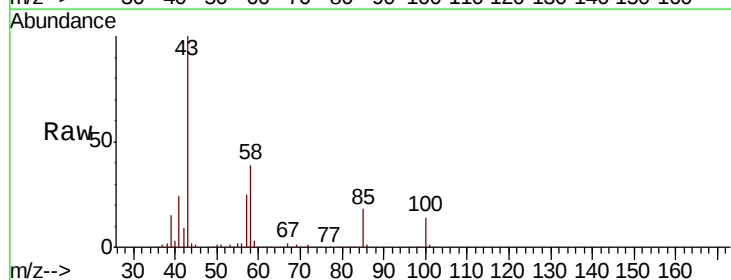
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

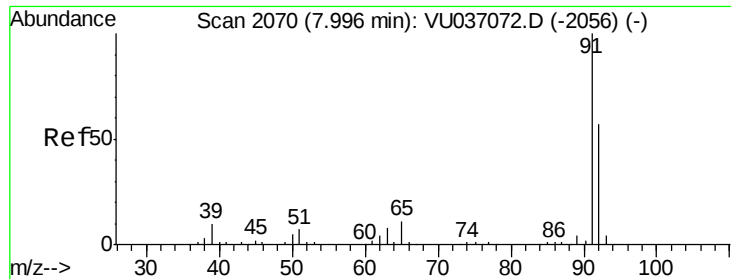
Tot Ion: 75 Resp: 160652
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 108.572 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

Tgt Ion: 43 Resp: 331768
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.8 47.6
 100 14.1 11.5 17.3





#42

Toluene

Concen: 52.278 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

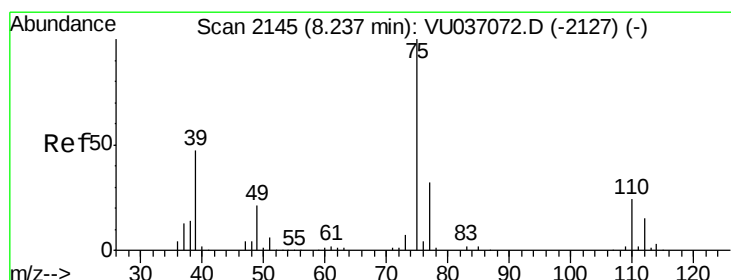
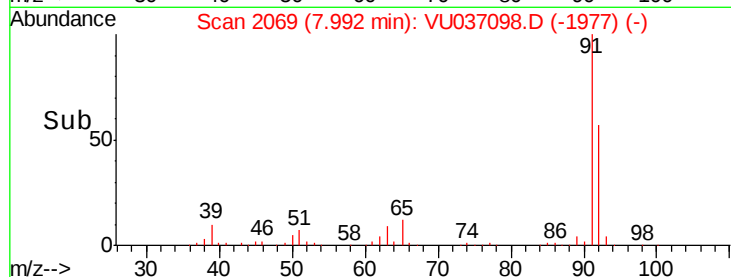
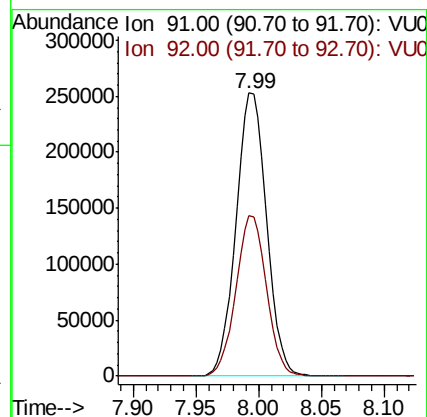
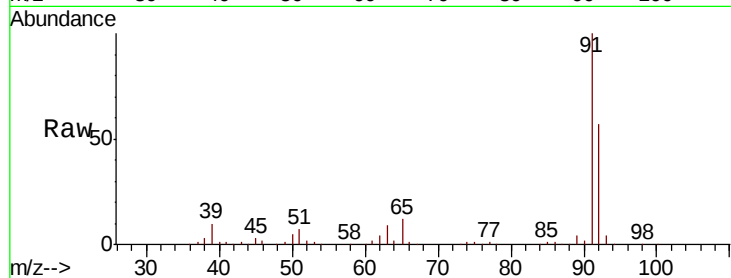
VSTD05049

Tot Ion: 91 Resp: 428967

Ion Ratio Lower Upper

91 100

92 56.7 39.4 73.2



#44

trans-1,3-Dichloropropene

Concen: 50.645 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037098.D

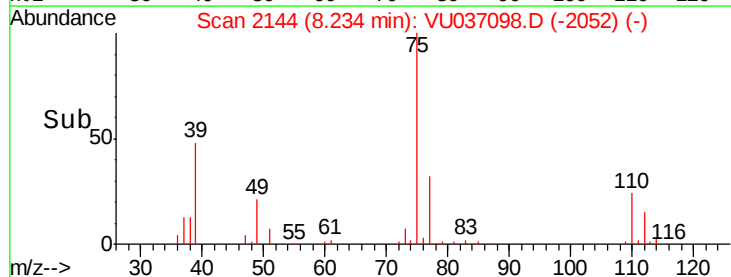
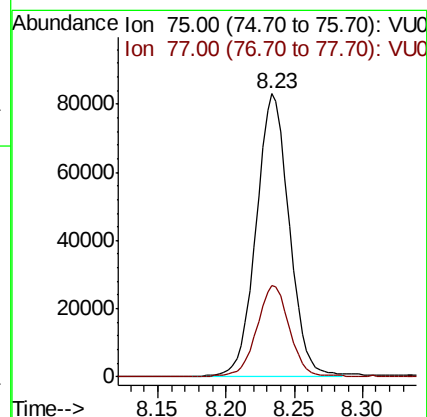
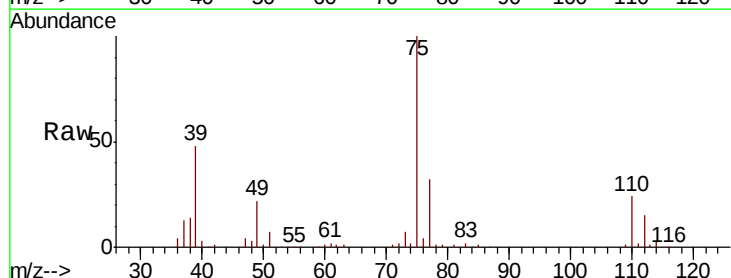
Acq: 05 Mar 2020 21:06

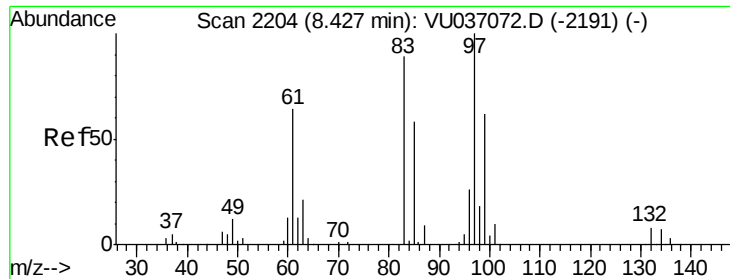
Tgt Ion: 75 Resp: 140343

Ion Ratio Lower Upper

75 100

77 32.4 21.6 40.2

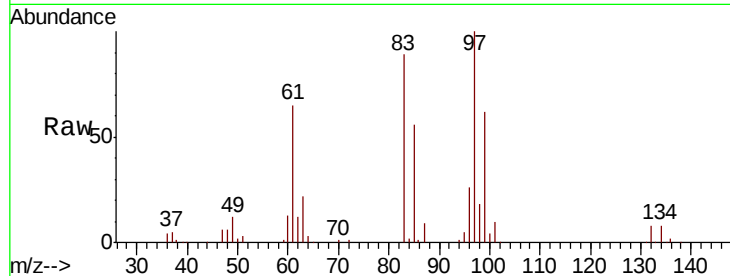




#45
 1,1,2-Trichloroethane
 Concen: 54.390 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

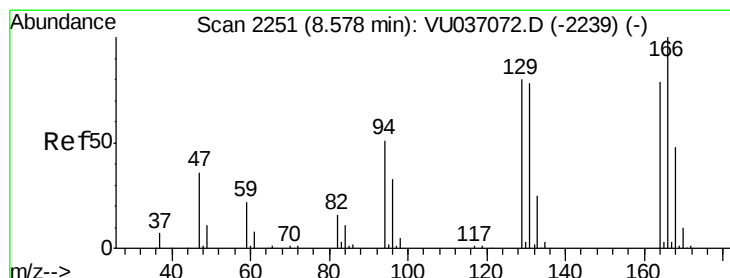
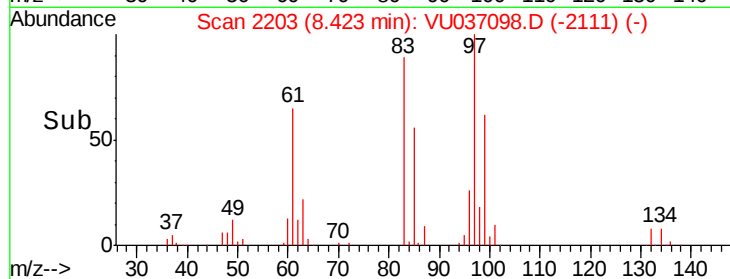
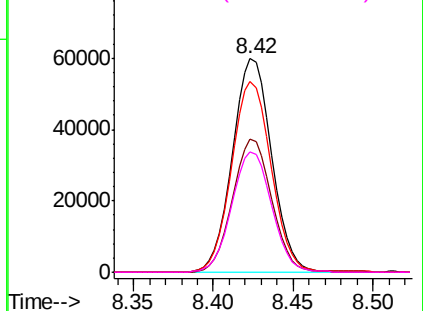
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tot Ion:	97	Resp:	100301
Ion	Ratio	Lower	Upper
97	100		
99	62.1	43.6	81.0
83	89.2	62.7	116.5
85	56.4	40.3	74.9



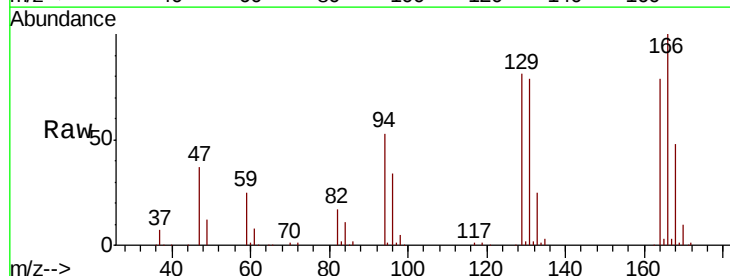
Abundance

Ion 97.00 (96.70 to 97.70): VU037072.D (-2191) (-)



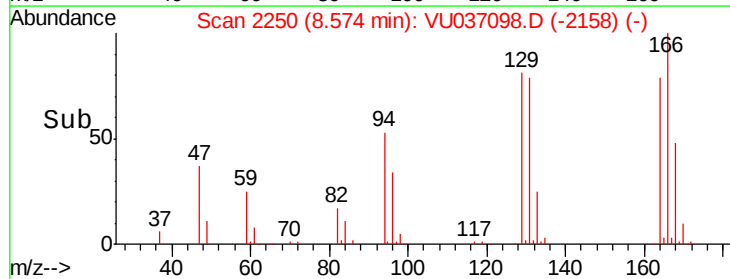
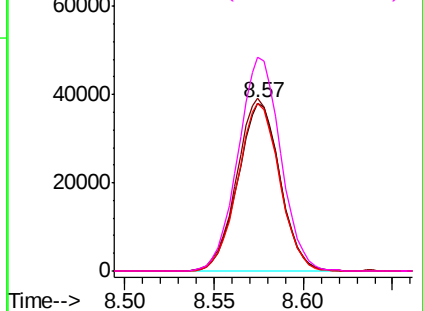
#46
 Tetrachloroethene
 Concen: 50.258 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

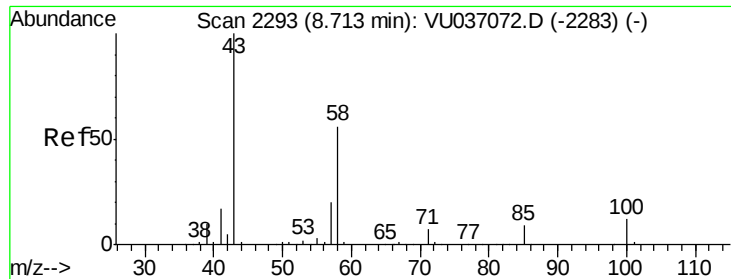
Tgt Ion:	164	Resp:	62674
Ion	Ratio	Lower	Upper
164	100		
129	102.7	72.0	133.8
131	100.2	67.9	126.1
166	127.3	87.1	161.7



Abundance

Ion 164.00 (163.70 to 164.70): VU037072.D (-2239) (-)

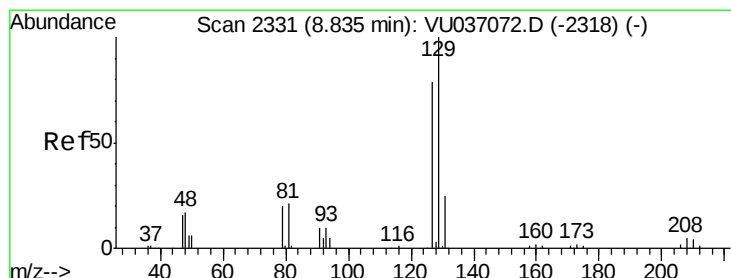
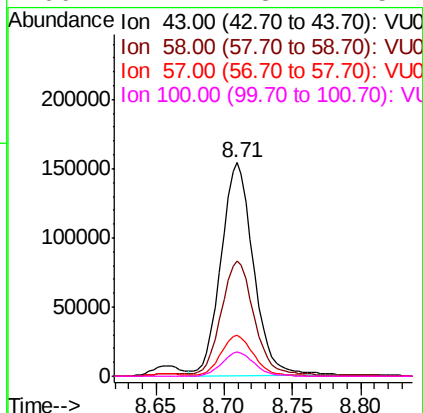
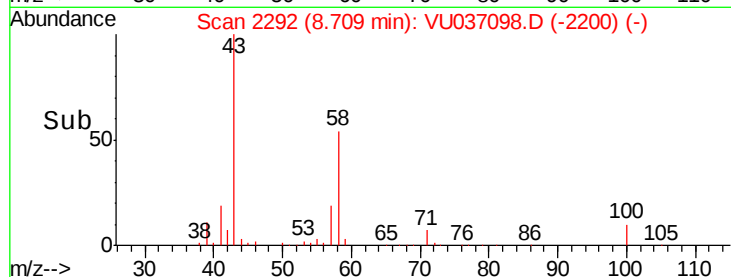
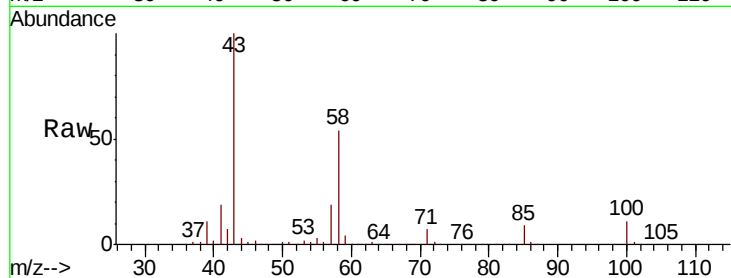




#48
2-Hexanone
Concen: 104.003 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

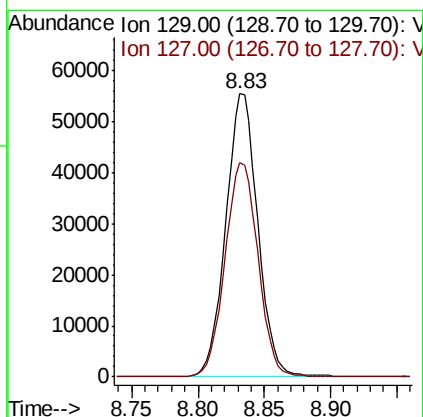
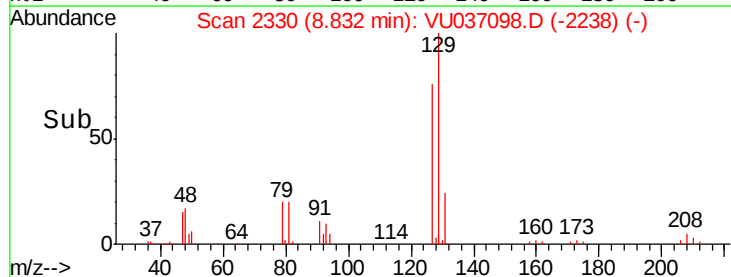
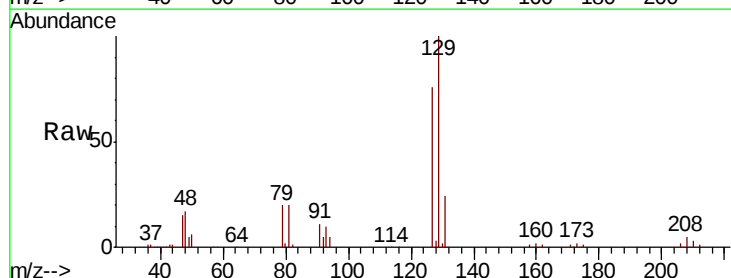
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

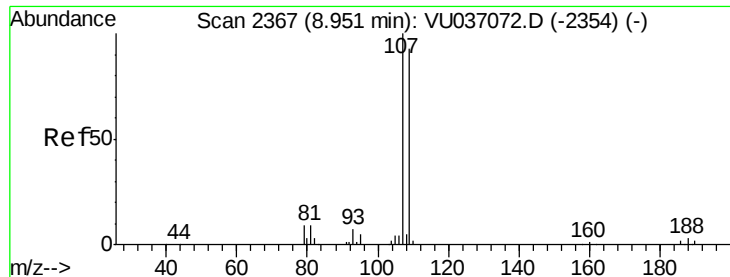
Tot Ion: 43 Resp: 253608
Ion Ratio Lower Upper
43 100
58 55.3 43.5 65.3
57 19.7 15.1 22.7
100 11.4 8.7 13.1



#49
Dibromochloromethane
Concen: 53.246 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037098.D
Acq: 05 Mar 2020 21:06

Tgt Ion: 129 Resp: 93200
Ion Ratio Lower Upper
129 100
127 75.7 54.3 100.8

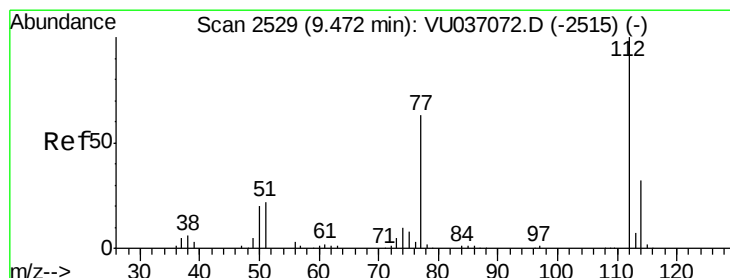
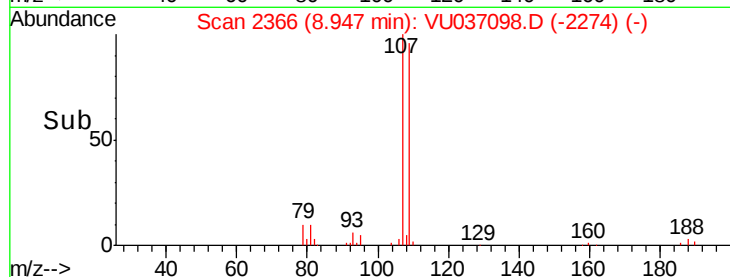
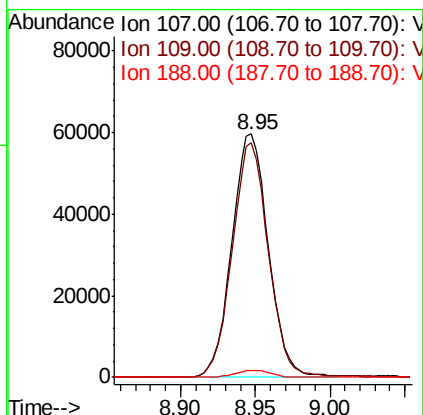
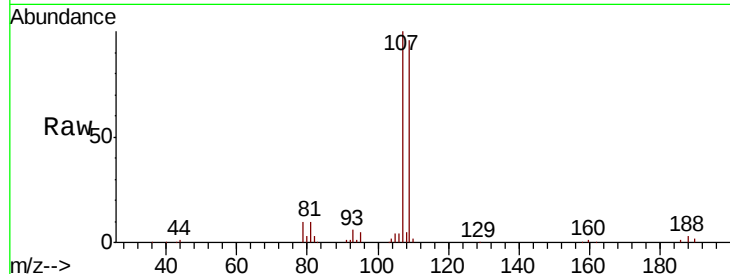




#50
 1,2-Dibromoethane
 Concen: 52.655 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

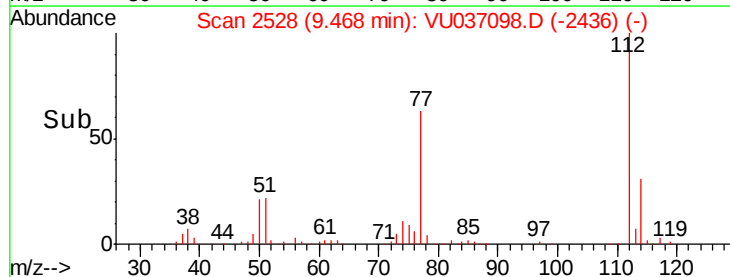
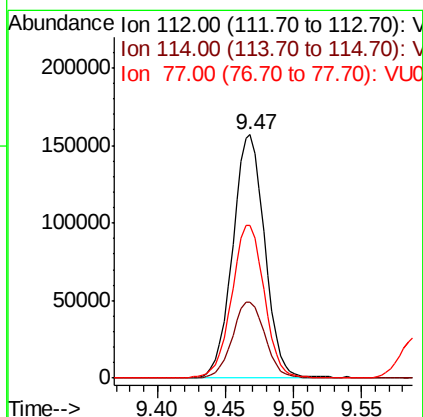
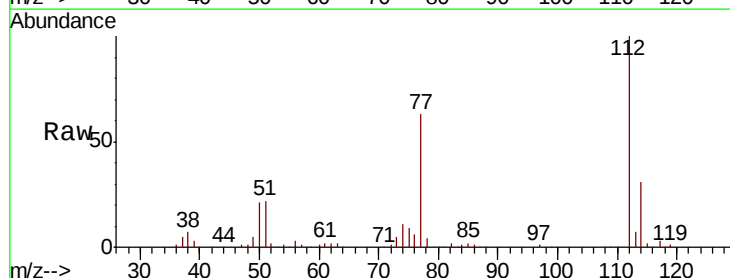
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

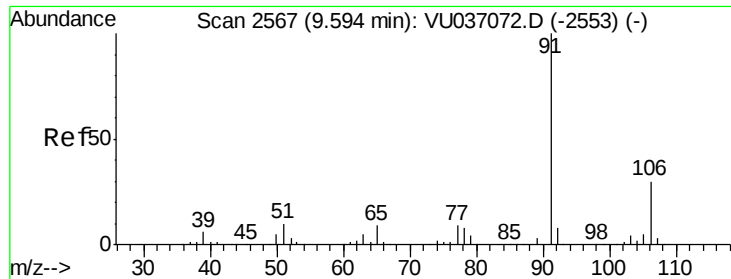
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.4	65.9	122.5
188	2.8	2.2	3.2



#51
 Chlorobenzene
 Concen: 52.731 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	22.3	41.5
77	62.9	50.1	75.1





#52

Ethylbenzene

Concen: 51.204 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

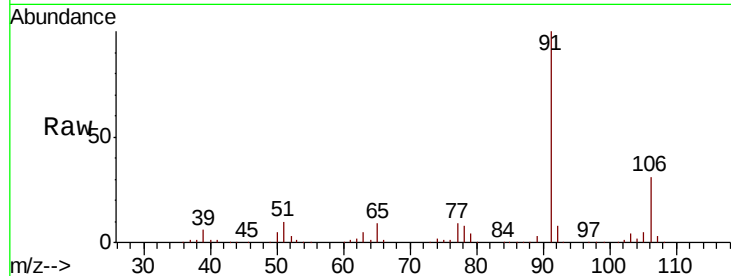
VSTD05049

Tot Ion: 91 Resp: 455472

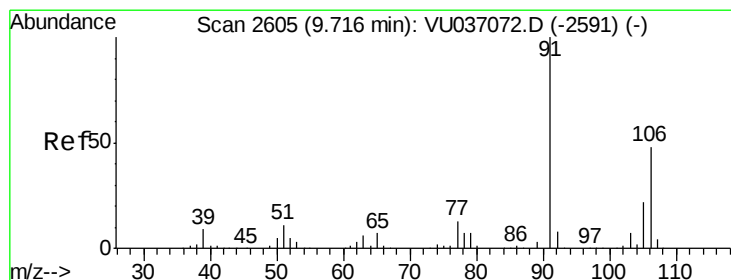
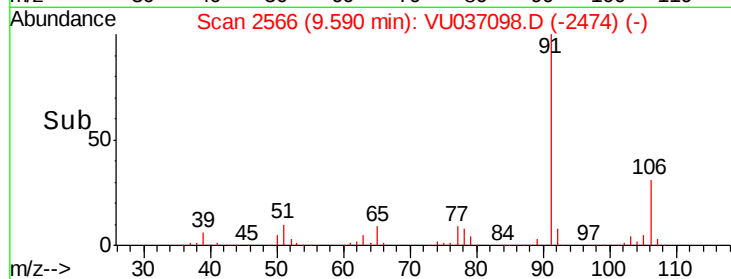
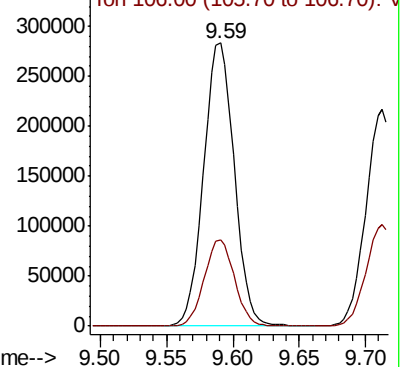
Ion Ratio Lower Upper

91 100

106 30.6 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VU037072.D (-2553) (-)



#53

m,p-Xylene

Concen: 51.080 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU037098.D

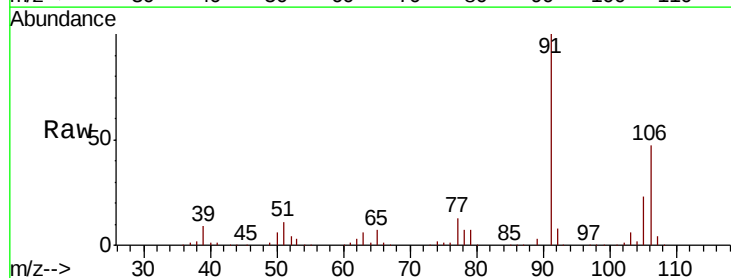
Acq: 05 Mar 2020 21:06

Tgt Ion: 106 Resp: 166671

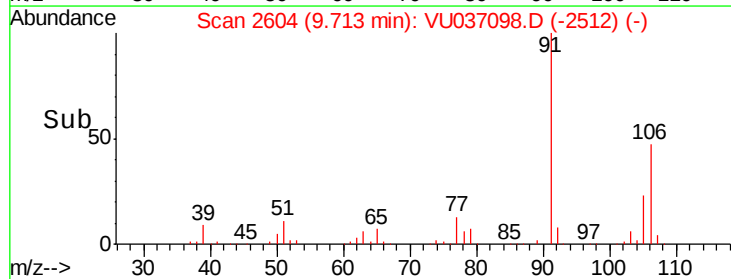
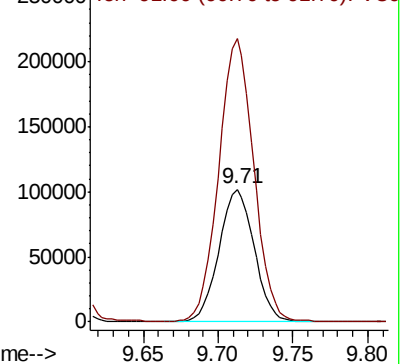
Ion Ratio Lower Upper

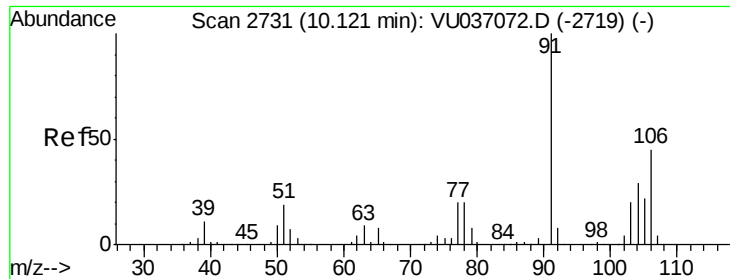
106 100

91 213.8 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): VU037098.D (-2512) (-)





#54

o-xylene

Concen: 51.491 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

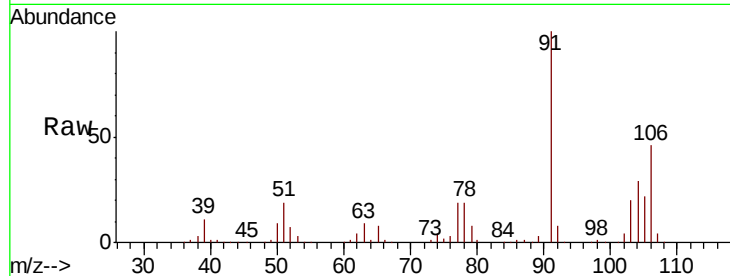
VSTD05049

Tot Ion:106 Resp: 167568

Ion Ratio Lower Upper

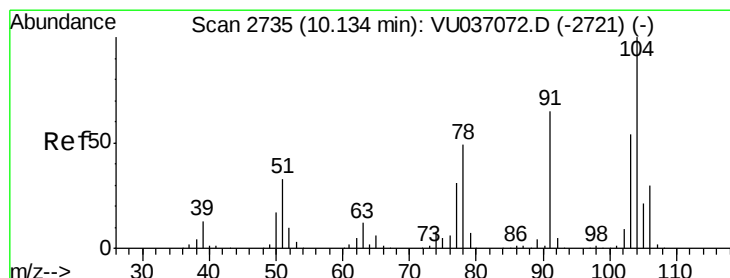
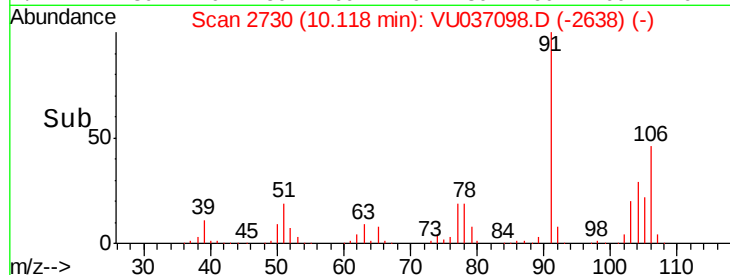
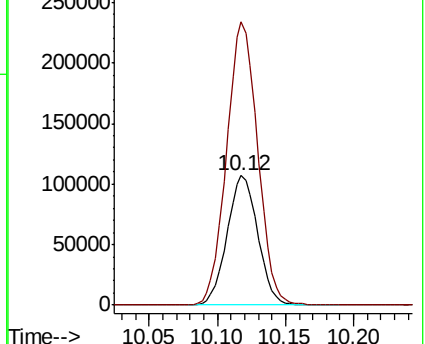
106 100

91 219.0 154.2 286.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.693 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU037098.D

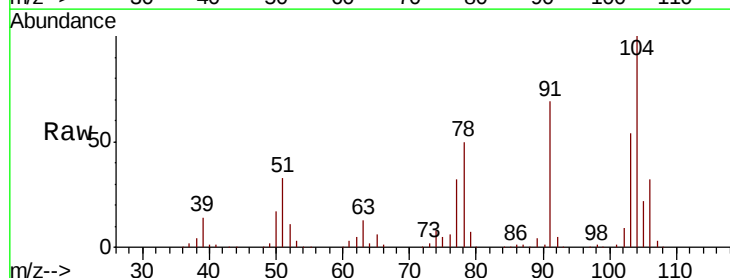
Acq: 05 Mar 2020 21:06

Tgt Ion:104 Resp: 275001

Ion Ratio Lower Upper

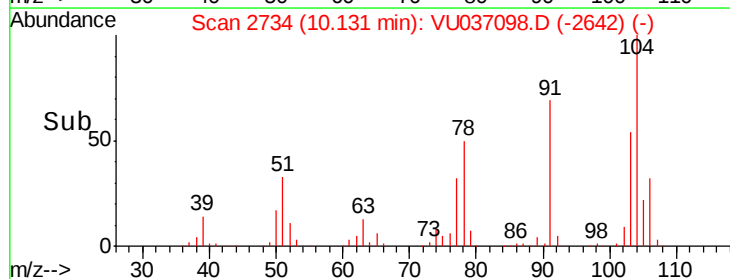
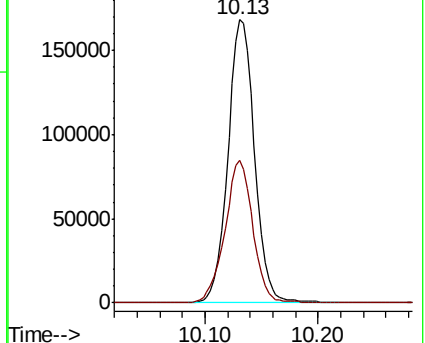
104 100

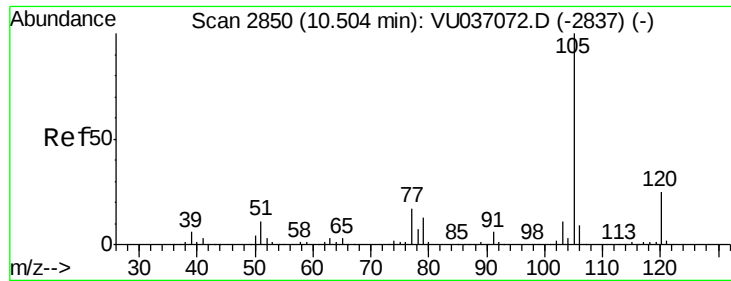
78 50.2 33.0 61.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.927 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

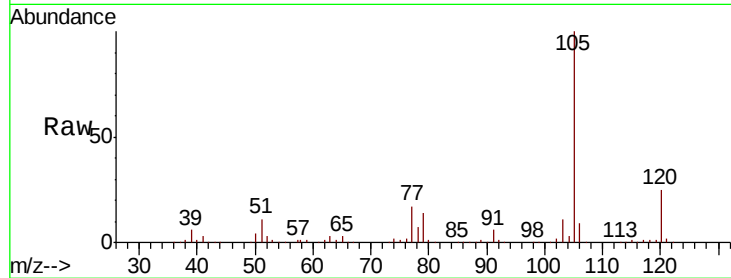
Tot Ion:105 Resp: 434037

Ion Ratio Lower Upper

105 100

120 25.2 20.5 30.7

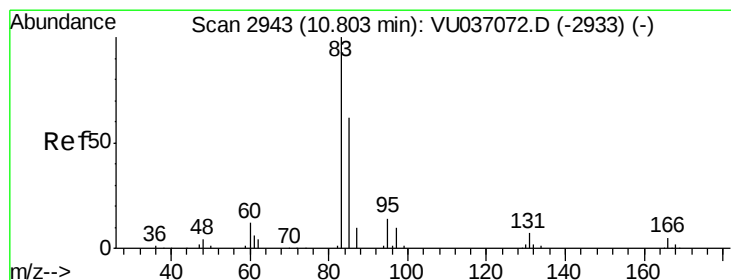
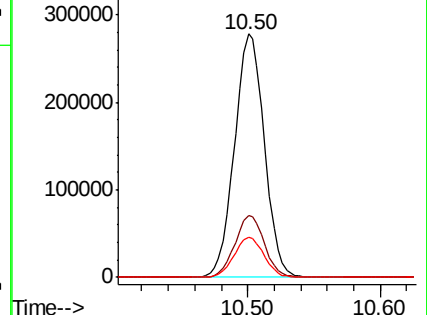
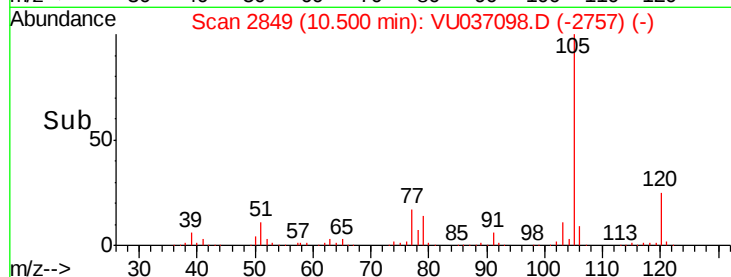
77 16.6 13.1 19.7



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 54.015 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

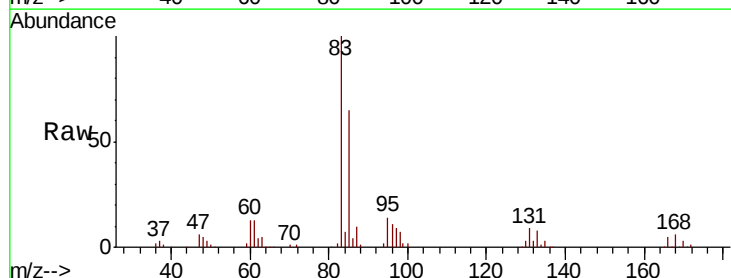
Tgt Ion: 83 Resp: 178080

Ion Ratio Lower Upper

83 100

85 64.8 45.5 84.5

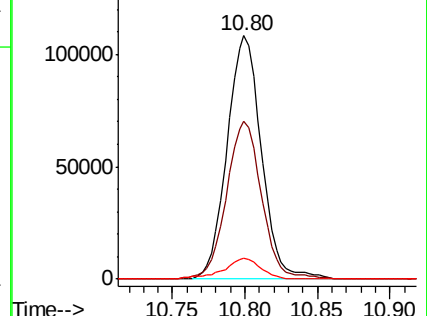
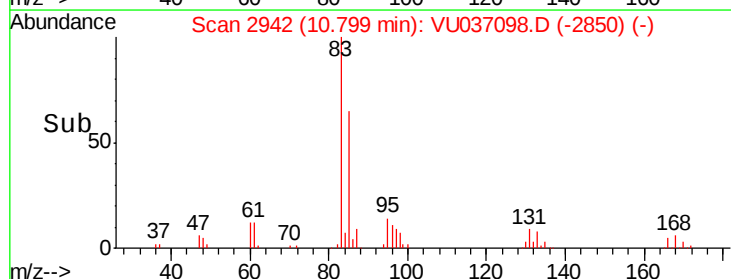
131 8.6 6.8 10.2

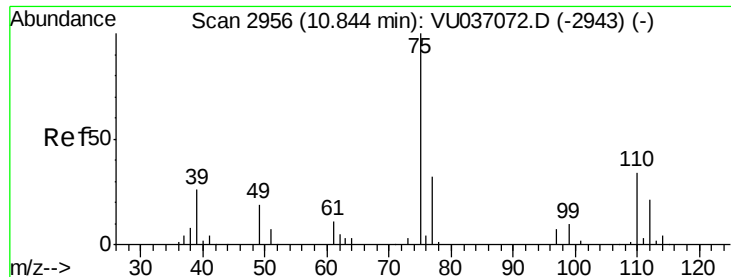


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 54.488 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

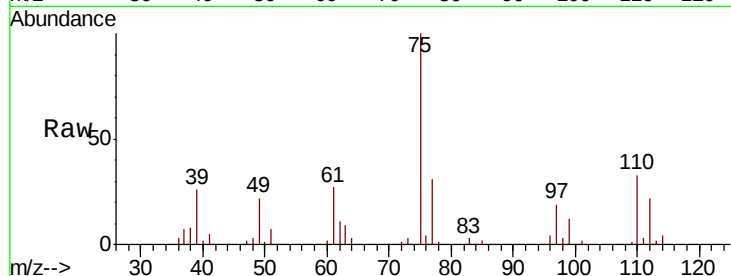
VSTD05049

Tot Ion: 75 Resp: 145360

Ion Ratio Lower Upper

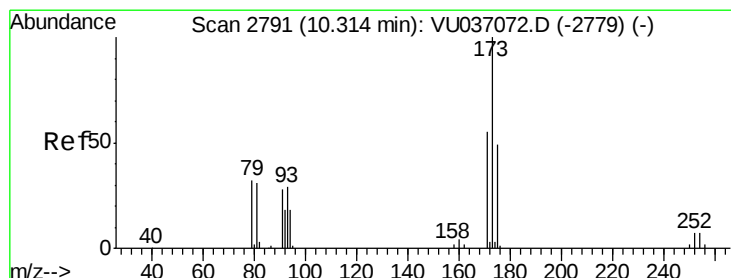
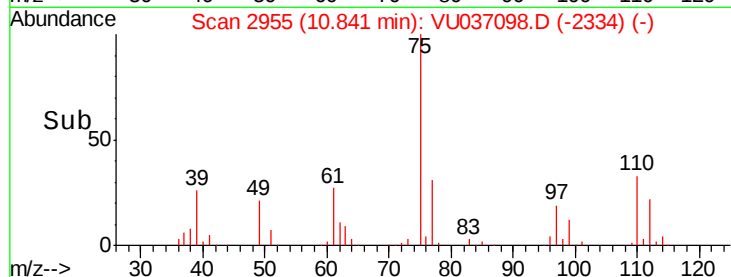
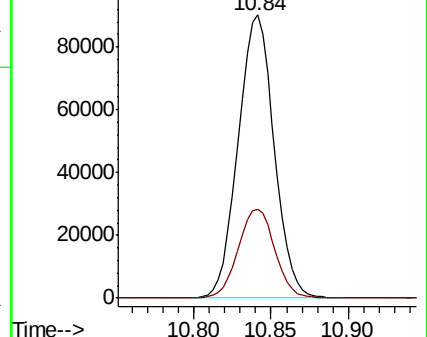
75 100

77 32.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU037072.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU037072.D (-2943) (-)



#61

Bromoform

Concen: 53.257 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

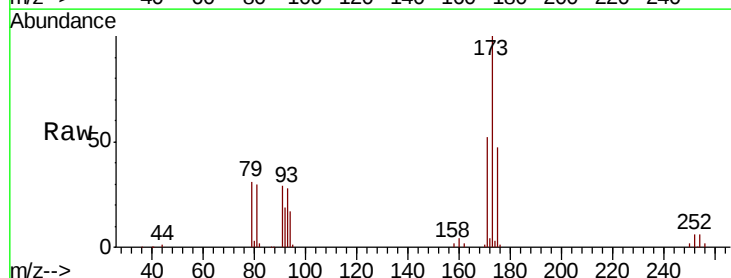
Tgt Ion: 173 Resp: 63644

Ion Ratio Lower Upper

173 100

175 47.1 39.0 58.6

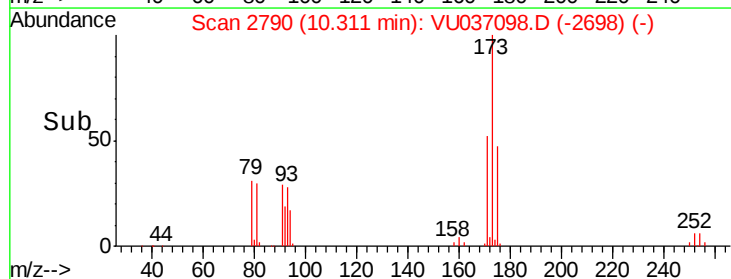
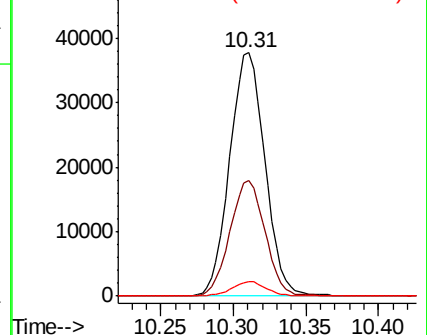
254 5.8 4.6 6.8

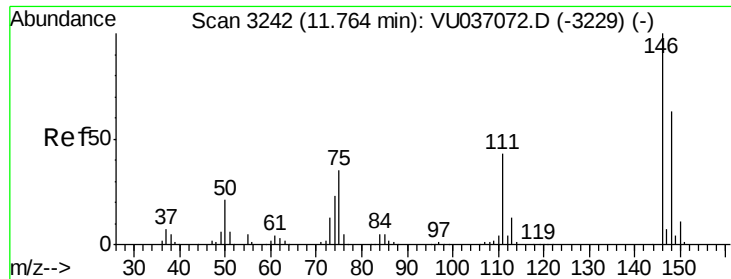


Abundance Ion 173.00 (172.70 to 173.70): VU037072.D (-2779) (-)

Ion 175.00 (174.70 to 175.70): VU037072.D (-2779) (-)

Ion 254.00 (253.70 to 254.70): VU037072.D (-2779) (-)

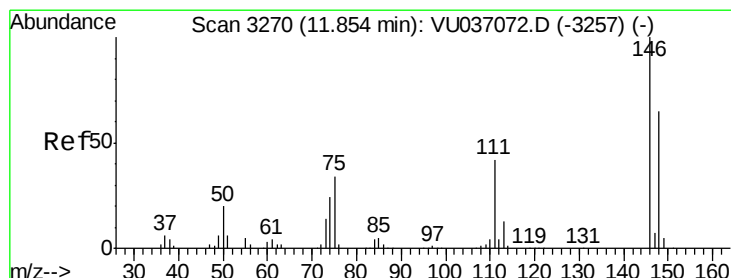
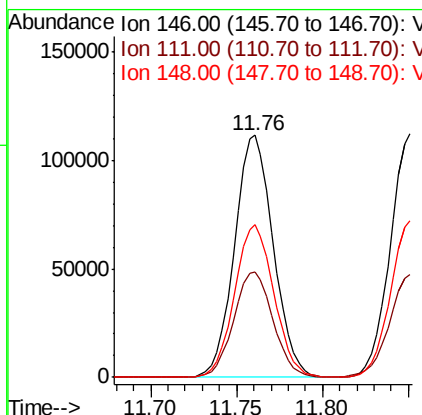
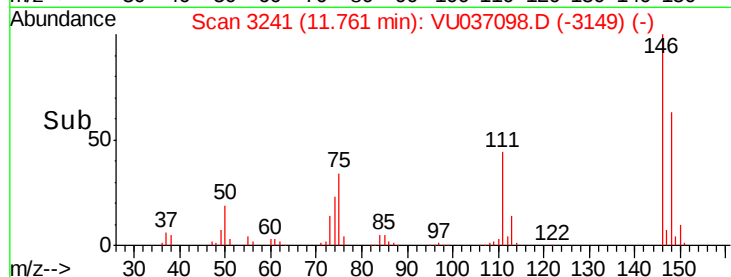
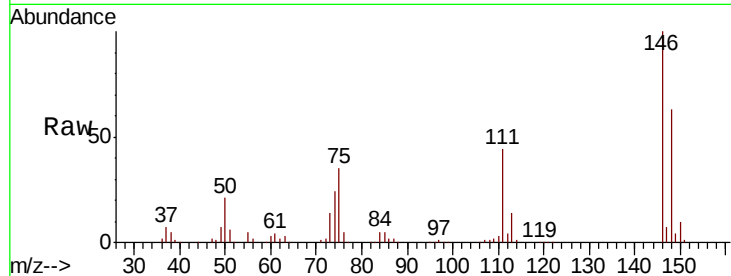




#62
 1,3-Dichlorobenzene
 Concen: 51.197 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

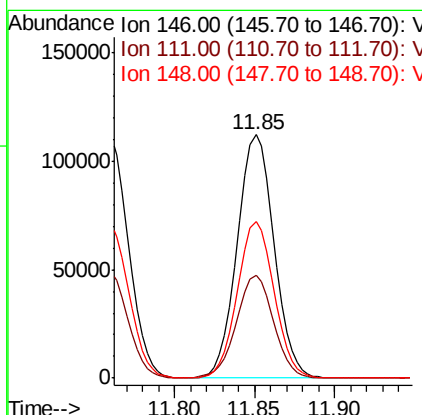
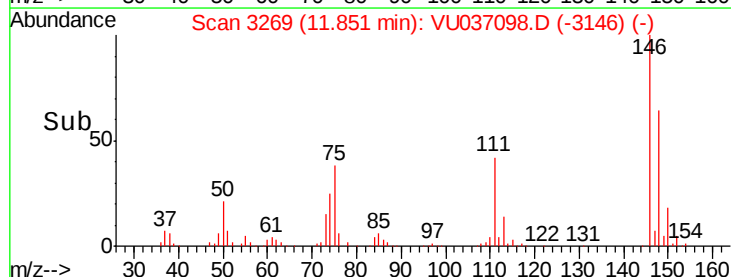
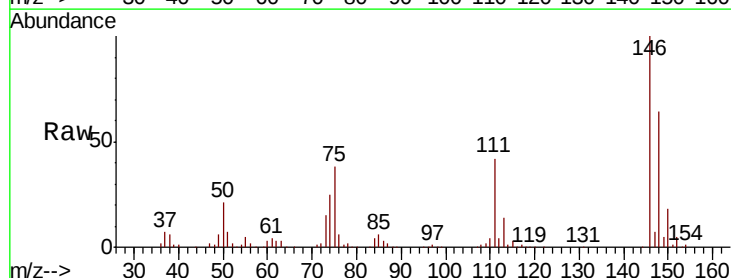
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

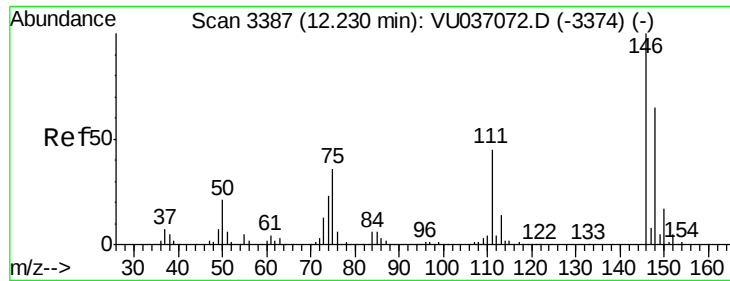
Tot Ion:146 Resp: 175551
 Ion Ratio Lower Upper
 146 100
 111 43.8 30.7 56.9
 148 62.9 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 52.026 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

Tgt Ion:146 Resp: 176251
 Ion Ratio Lower Upper
 146 100
 111 42.2 29.8 55.4
 148 64.2 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 53.242 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

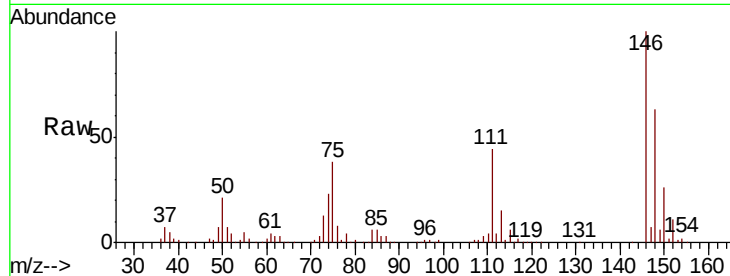
Tot Ion:146 Resp: 182282

Ion Ratio Lower Upper

146 100

111 44.3 35.4 53.0

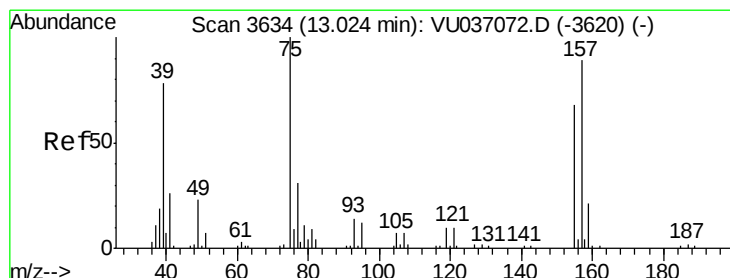
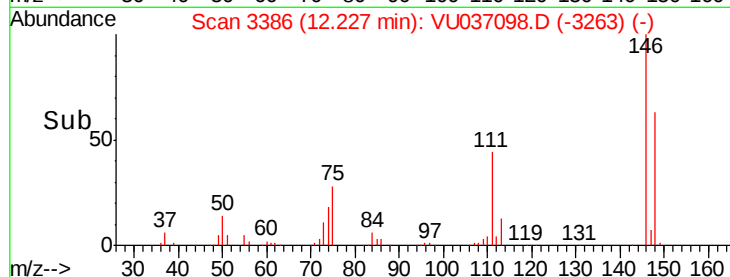
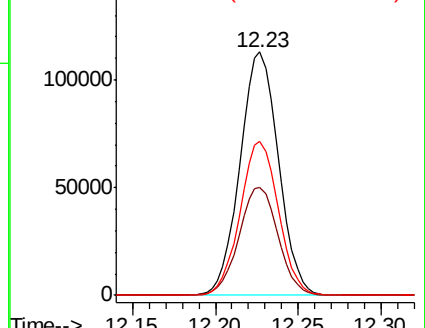
148 63.3 50.5 75.7



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



#66

1,2-Dibromo-3-chloropropane

Concen: 54.668 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.01 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

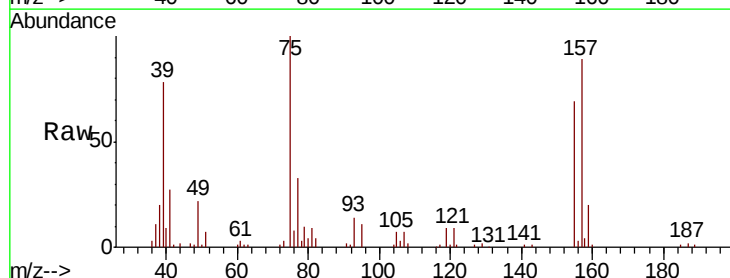
Tgt Ion: 75 Resp: 37132

Ion Ratio Lower Upper

75 100

155 69.4 55.7 83.5

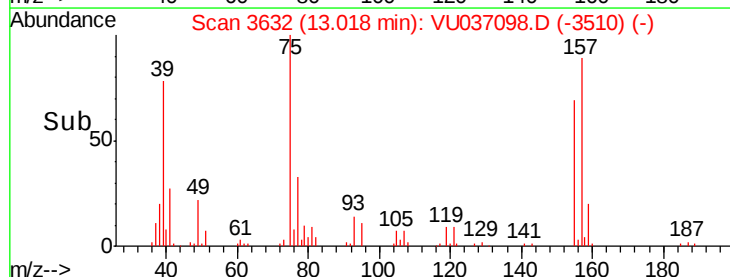
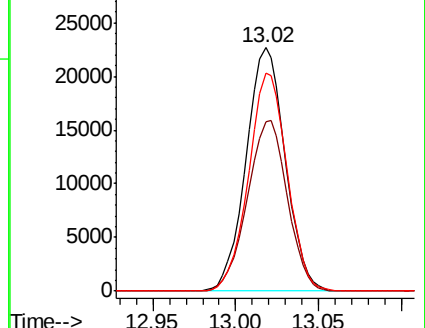
157 89.3 73.0 109.6

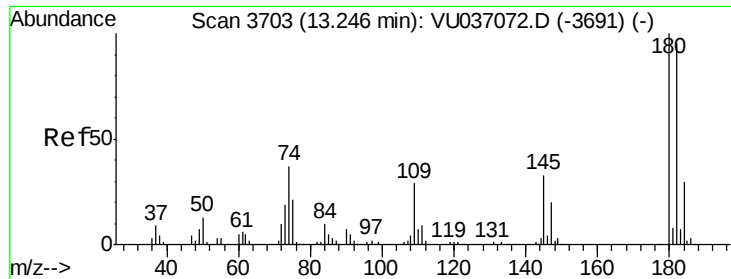


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

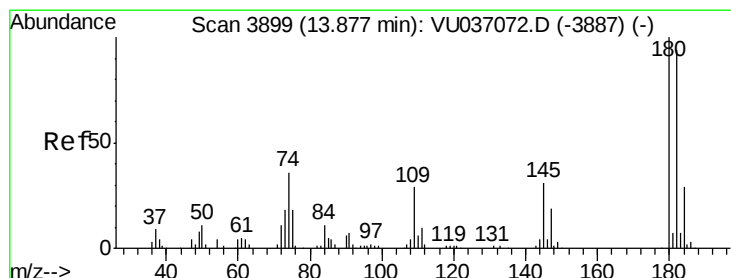
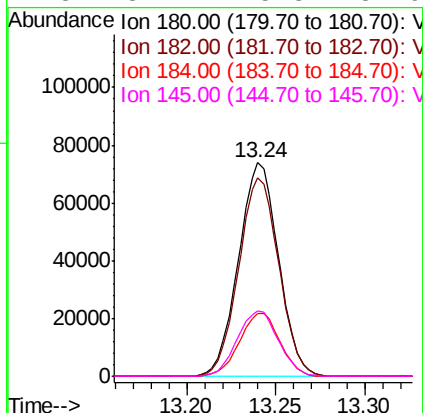
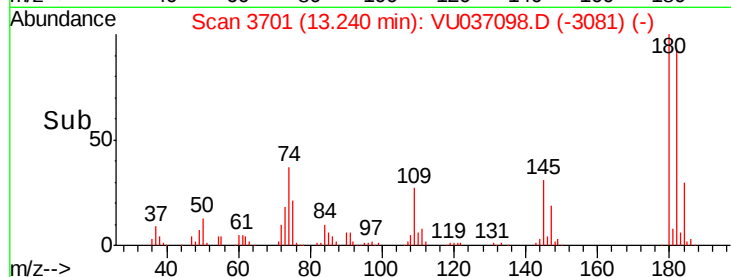
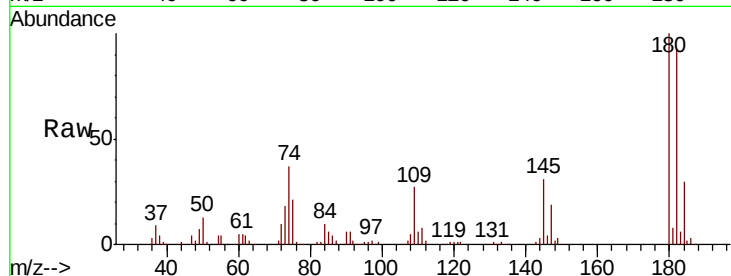




#67
 1,3,5-Trichlorobenzene
 Concen: 53.162 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.01 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

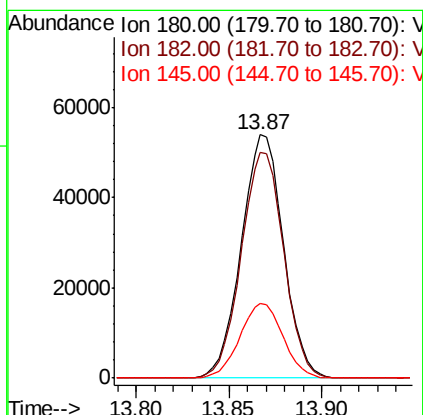
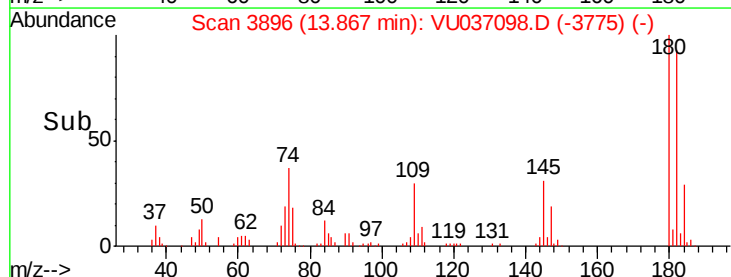
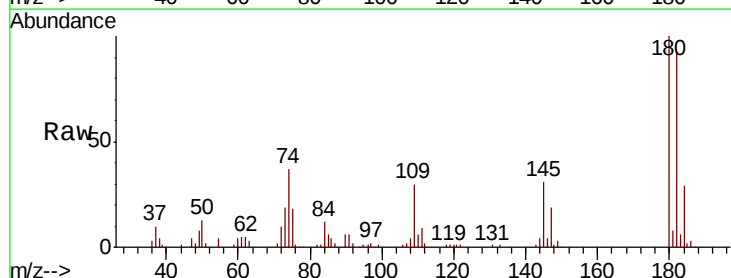
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

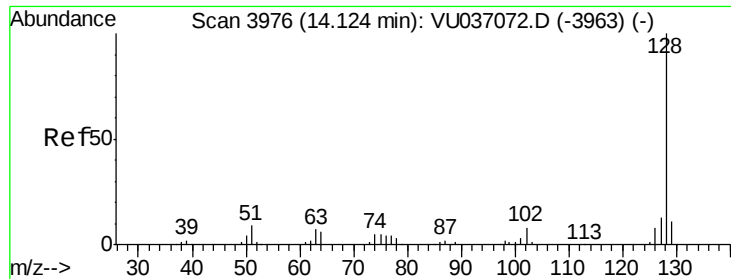
Tot Ion:180 Resp: 115705
 Ion Ratio Lower Upper
 180 100
 182 93.6 76.9 115.3
 184 29.9 24.2 36.2
 145 31.4 25.3 37.9



#68
 1,2,4-trichlorobenzene
 Concen: 52.293 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU037098.D
 Acq: 05 Mar 2020 21:06

Tgt Ion:180 Resp: 85272
 Ion Ratio Lower Upper
 180 100
 182 93.7 75.3 112.9
 145 31.4 26.2 39.4





#69

Naphthalene

Concen: 44.173 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. -0.01 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

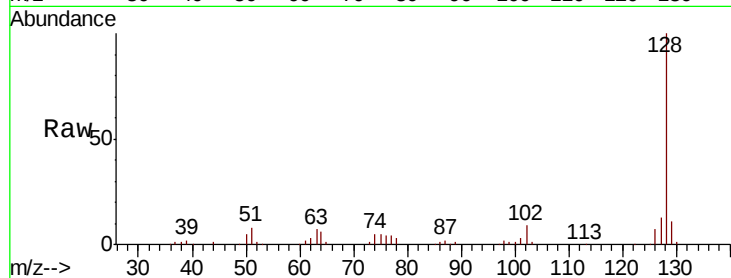
Tot Ion:128 Resp: 127154

Ion Ratio Lower Upper

128 100

127 13.5 11.0 16.4

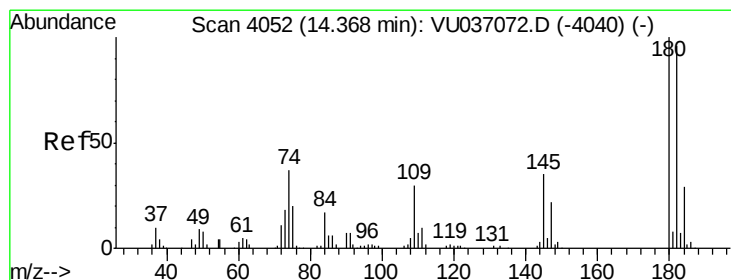
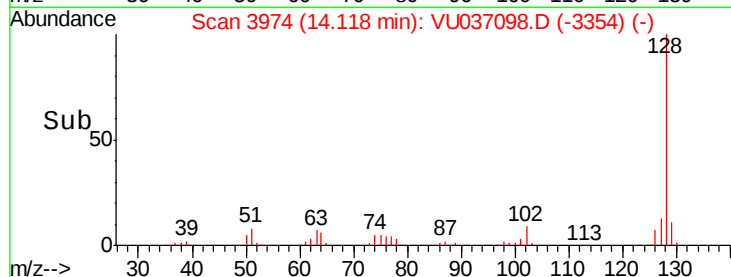
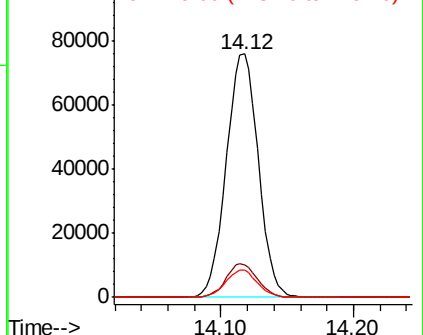
129 11.0 8.6 12.8



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: 53.712 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VU037098.D

Acq: 05 Mar 2020 21:06

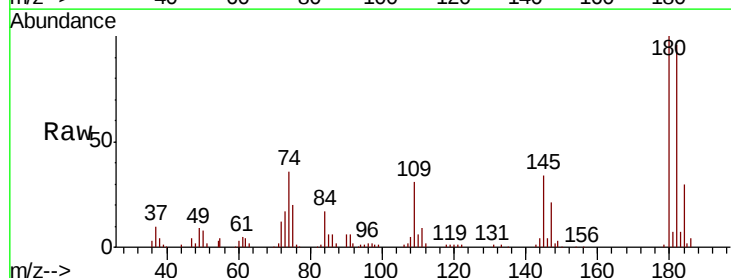
Tgt Ion:180 Resp: 87525

Ion Ratio Lower Upper

180 100

182 95.0 77.0 115.6

145 34.1 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

