

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082520\
 Data File : VV018097.D
 Acq On : 25 Aug 2020 18:23
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

Quant Time: Aug 26 02:13:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 26 02:11:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	269725	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	267500	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	147434	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	91571	44.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.00%
7) Chloroethane-d5	1.58	69	80591	47.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.74%
11) 1,1-Dichloroethene-d2	2.12	63	186525	47.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.76%
21) 2-Butanone-d5	3.91	46	129973	96.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.43%
24) Chloroform-d	4.38	84	182119	48.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.22%
26) 1,2-Dichloroethane-d4	5.06	65	117633	48.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.68%
32) Benzene-d6	5.08	84	356840	48.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.80%
36) 1,2-Dichloropropane-d6	6.09	67	114263	47.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.82%
41) Toluene-d8	7.34	98	329373	49.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.36%
43) trans-1,3-Dichloropropene-	7.64	79	55270	50.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.12%
47) 2-Hexanone-d5	8.11	63	77535	100.25	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.25%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	153755	48.99	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.98%
64) 1,2-Dichlorobenzene-d4	11.65	152	136902	47.18	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.36%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	91828	44.098	ug/L 99
3) Chloromethane	1.25	50	105736	43.711	ug/L 100
5) Vinyl chloride	1.32	62	111283	46.432	ug/L 98
6) Bromomethane	1.53	94	66175	46.198	ug/L 99
8) Chloroethane	1.60	64	71469	46.721	ug/L 100
9) Trichlorofluoromethane	1.77	101	159176	46.495	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	93548	48.938	ug/L 97
12) 1,1-Dichloroethene	2.13	96	87896	48.580	ug/L 97
13) Acetone	2.19	43	106205	76.285	ug/L 99
14) Carbon disulfide	2.31	76	229507	46.088	ug/L 100
15) Methyl Acetate	2.45	43	109495	48.735	ug/L 100
16) Methylene chloride	2.52	84	104693	45.419	ug/L 98
17) trans-1,2-Dichloroethene	2.78	96	91284	49.081	ug/L 99
18) Methyl tert-butyl Ether	2.79	73	309014	50.239	ug/L 100
19) 1,1-Dichloroethane	3.21	63	185118	49.501	ug/L 100
20) cis-1,2-Dichloroethene	3.94	96	104102	50.935	ug/L 98
22) 2-Butanone	3.99	43	151697	97.127	ug/L 98

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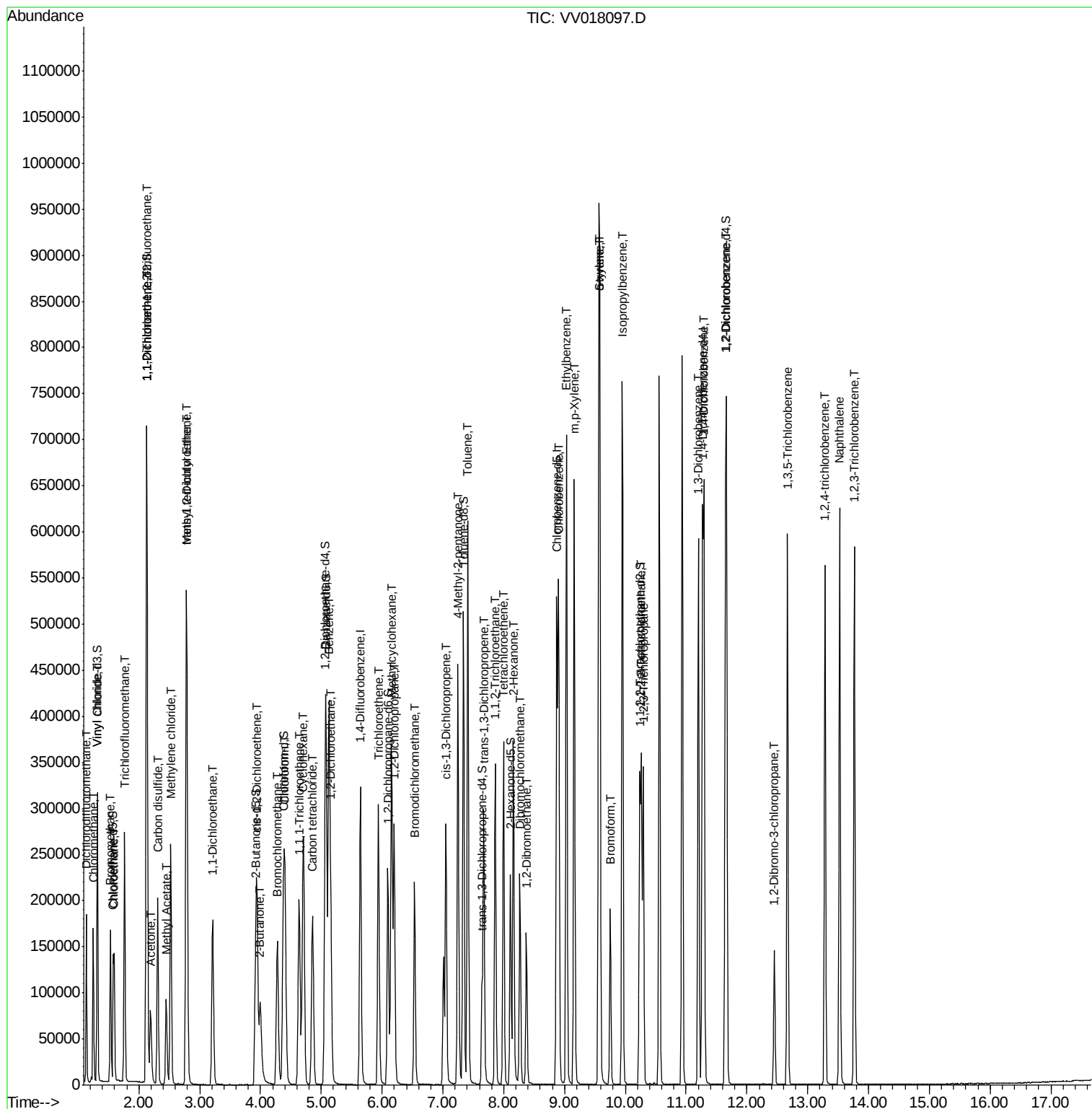
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	54433	50.982	ug/L	96
25) Chloroform	4.40	83	193750	50.795	ug/L	99
27) 1,2-Dichloroethane	5.16	62	150640	49.617	ug/L	98
29) Cyclohexane	4.70	56	147453	45.672	ug/L	99
30) 1,1,1-Trichloroethane	4.64	97	163755	49.955	ug/L	99
31) Carbon tetrachloride	4.86	117	139748	51.210	ug/L	99
33) Benzene	5.13	78	403098	48.707	ug/L	100
34) Trichloroethene	5.94	95	104941	47.971	ug/L	98
35) Methylcyclohexane	6.16	83	152036	46.739	ug/L	99
37) 1,2-Dichloropropane	6.20	63	109623	48.571	ug/L	100
38) Bromodichloromethane	6.53	83	144319	51.480	ug/L	100
39) cis-1,3-Dichloropropene	7.05	75	167929	52.485	ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	296368	100.449	ug/L	99
42) Toluene	7.41	91	431533	49.970	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	165257	54.437	ug/L	100
45) 1,1,2-Trichloroethane	7.86	97	104922	50.199	ug/L	100
46) Tetrachloroethene	8.00	164	82954	51.705	ug/L	99
48) 2-Hexanone	8.16	43	225766	94.892	ug/L	100
49) Dibromochloromethane	8.27	129	113655	55.709	ug/L	100
50) 1,2-Dibromoethane	8.37	107	107895	49.893	ug/L	97
51) Chlorobenzene	8.90	112	278464	50.136	ug/L	99
52) Ethylbenzene	9.03	91	475623	50.511	ug/L	99
53) m,p-Xylene	9.16	106	177847	51.353	ug/L	97
54) o-xylene	9.57	106	174797	51.073	ug/L	97
55) Styrene	9.58	104	313287	53.453	ug/L	99
56) Isopropylbenzene	9.95	105	467754	51.807	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	166104	51.034	ug/L	100
59) 1,2,3-Trichloropropane	10.30	75	137733	49.413	ug/L	100
61) Bromoform	9.75	173	83435	59.809	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	233254	49.752	ug/L	99
63) 1,4-Dichlorobenzene	11.30	146	239108	49.646	ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	234591	48.614	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	36051	50.706	ug/L	99
67) 1,3,5-Trichlorobenzene	12.67	180	181756	51.034	ug/L	100
68) 1,2,4-trichlorobenzene	13.28	180	167302	53.430	ug/L	99
69) Naphthalene	13.52	128	468418	54.275	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	173732	54.559	ug/L	99

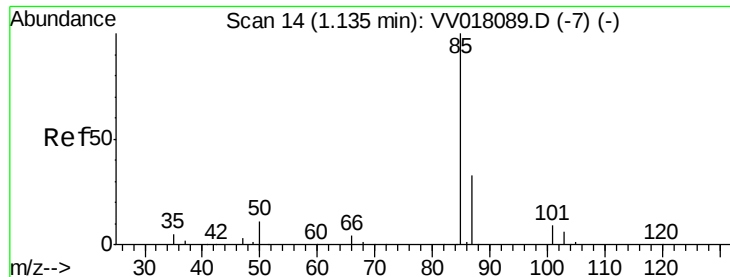
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.098 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

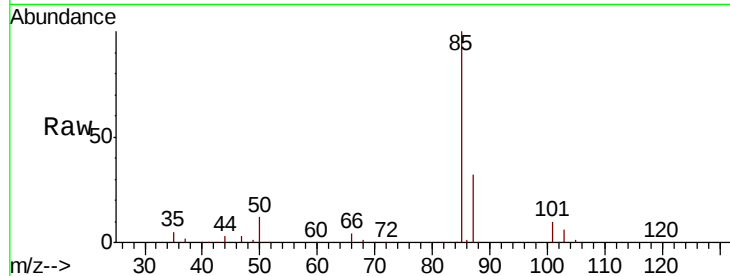
VSTD05084

Tot Ion: 85 Resp: 91828

Ion Ratio Lower Upper

85 100

87 32.1 25.9 38.9



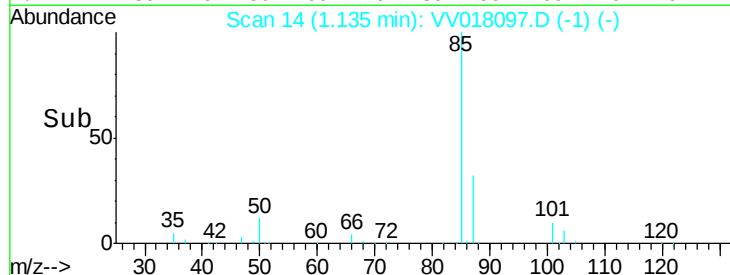
Abundance Ion 85.00 (84.70 to 85.70): VV018089.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV018089.D (-7) (-)

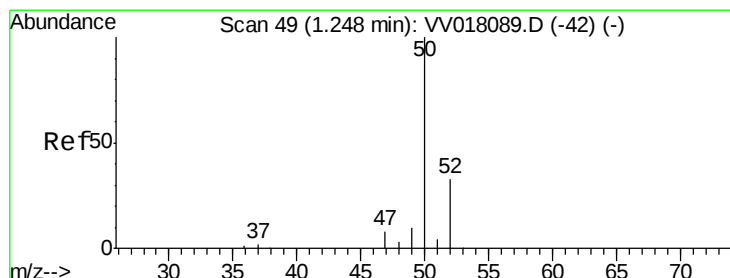
1.14

1.15

1.20



Time-->



#3

Chloromethane

Concen: 43.711 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV018097.D

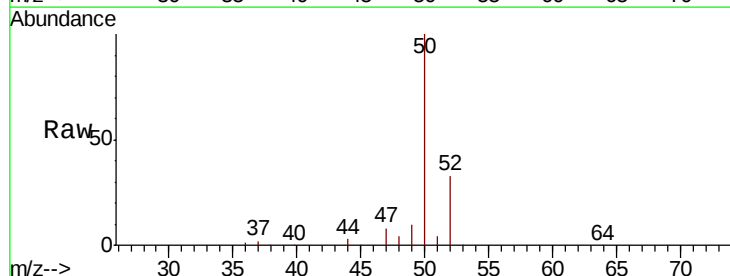
Acq: 25 Aug 2020 18:23

Tgt Ion: 50 Resp: 105736

Ion Ratio Lower Upper

50 100

52 33.0 23.2 43.2

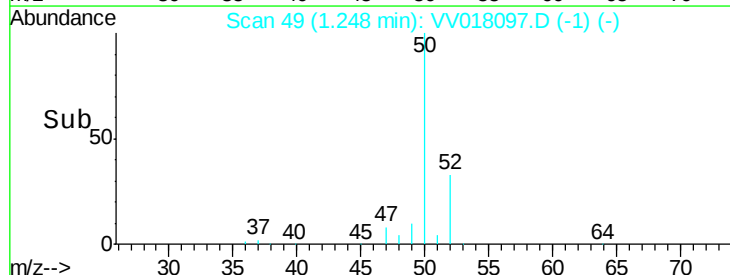


Abundance Ion 50.00 (49.70 to 50.70): VV018089.D (-42) (-)

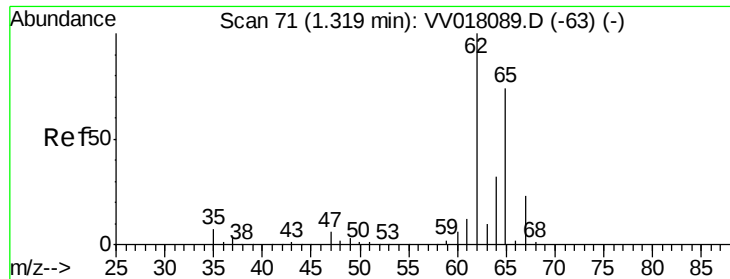
Ion 52.00 (51.70 to 52.70): VV018089.D (-42) (-)

1.25

1.30



Time-->



#5

Vinyl chloride

Concen: 46.432 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

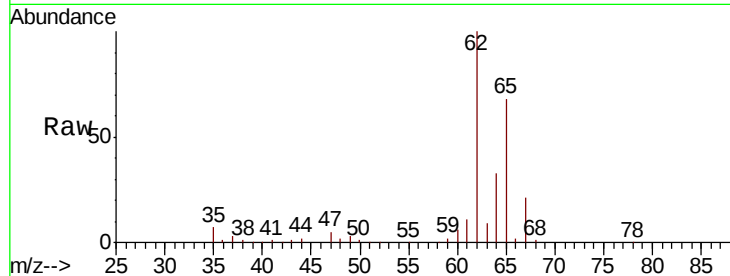
VSTD05084

Tot Ion: 62 Resp: 111283

Ion Ratio Lower Upper

62 100

64 33.1 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

120000

100000

80000

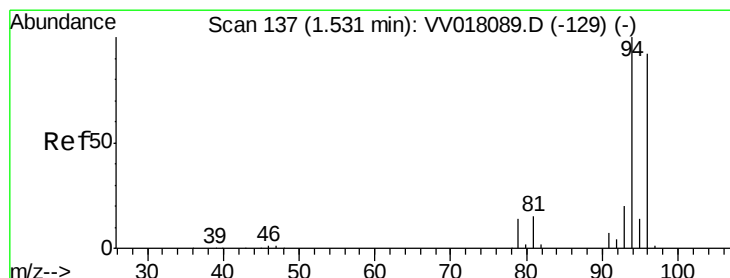
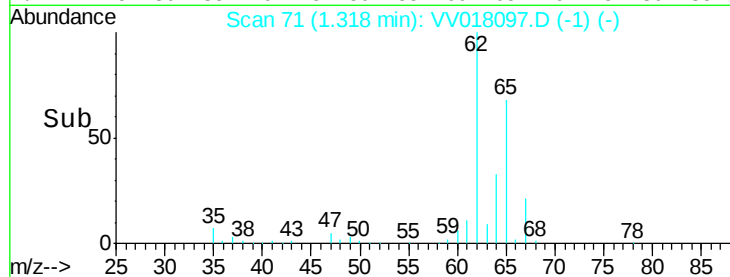
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 46.198 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV018097.D

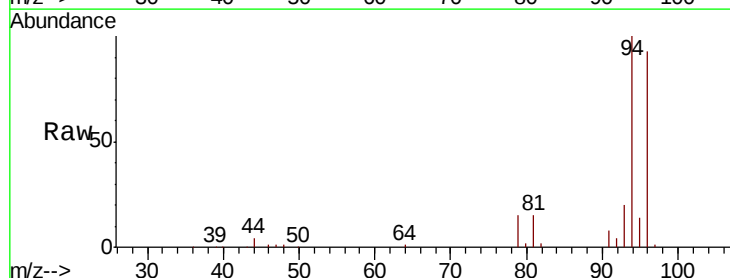
Acq: 25 Aug 2020 18:23

Tgt Ion: 94 Resp: 66175

Ion Ratio Lower Upper

94 100

96 93.0 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

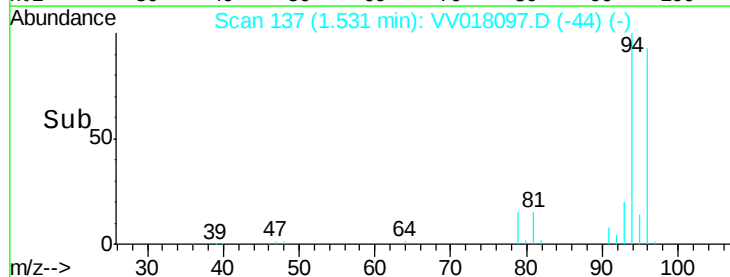
60000

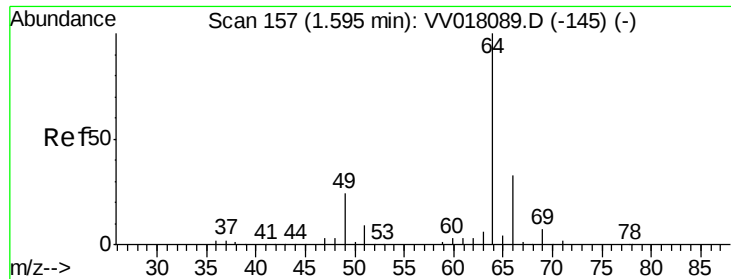
40000

20000

0

Time-->

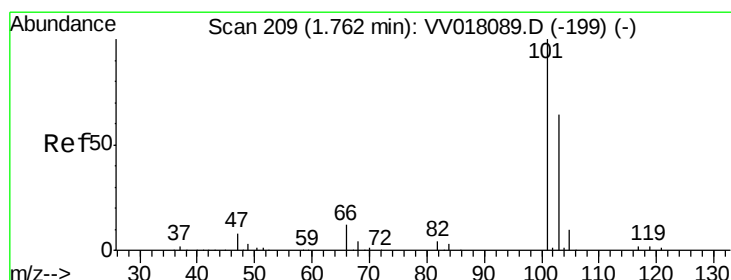
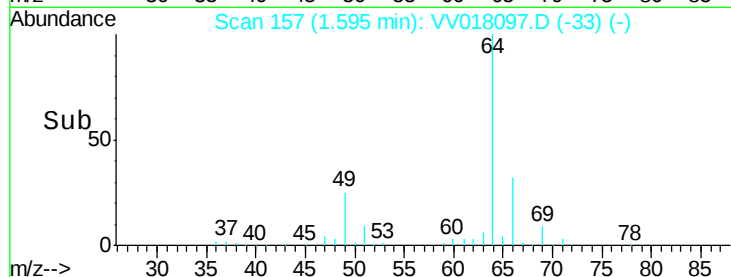
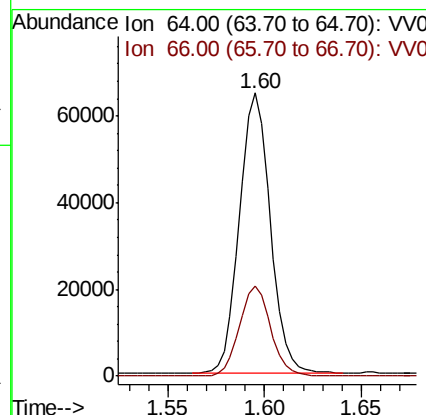
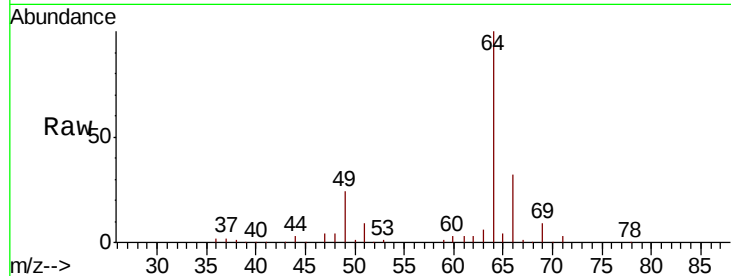




#8
Chloroethane
Concen: 46.721 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

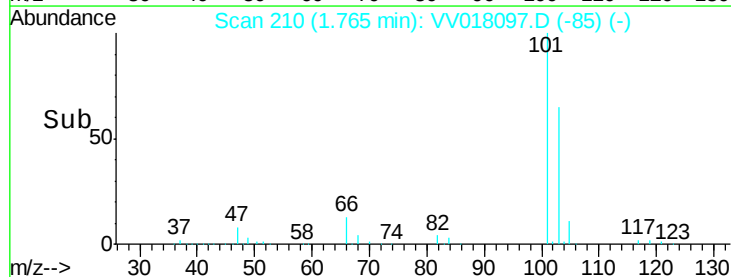
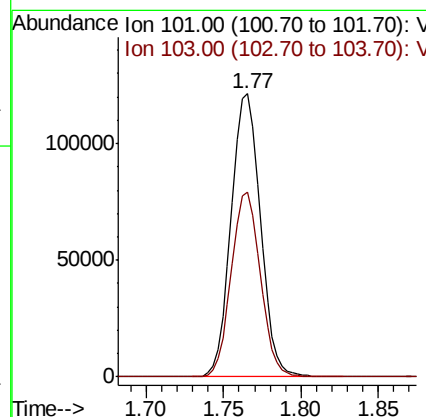
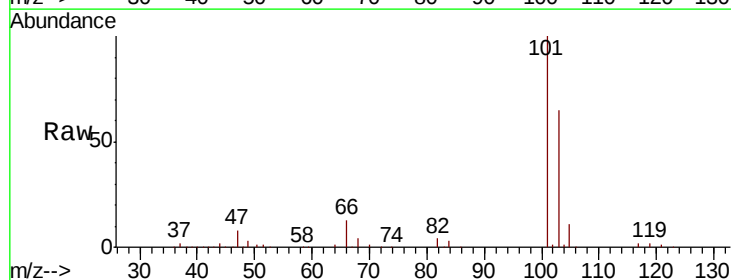
Instrument :
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ClientSampleId :
VSTD05084

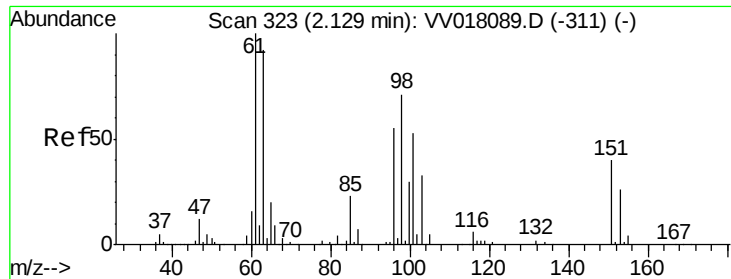
Tot Ion: 64 Resp: 71469
Ion Ratio Lower Upper
64 100
66 31.8 22.3 41.3



#9
Trichlorofluoromethane
Concen: 46.495 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Tgt Ion:101 Resp: 159176
Ion Ratio Lower Upper
101 100
103 64.9 51.5 77.3





#10

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

Concen: 48.938 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

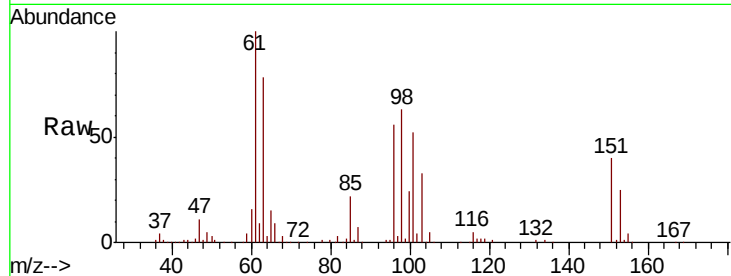
Tot Ion:101 Resp: 93548

Ion Ratio Lower Upper

101 100

85 42.4 34.9 52.3

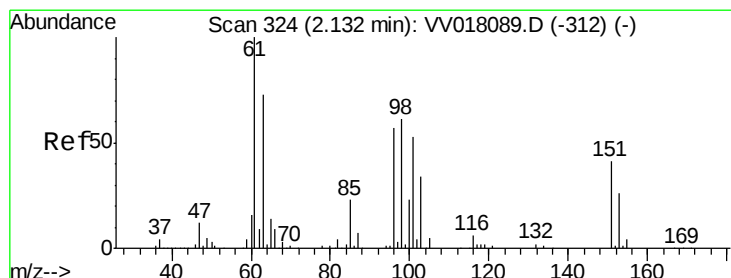
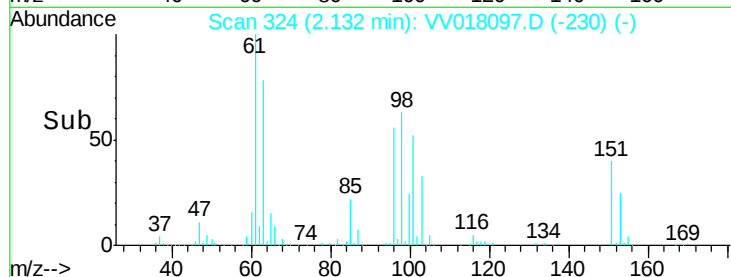
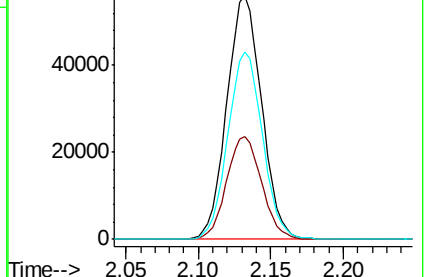
151 76.4 59.1 88.7



Abundance Ion 101.00 (100.70 to 101.70): VV018089.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV018089.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV018089.D (-311) (-)



#12

1,1-Dichloroethene

Concen: 48.580 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

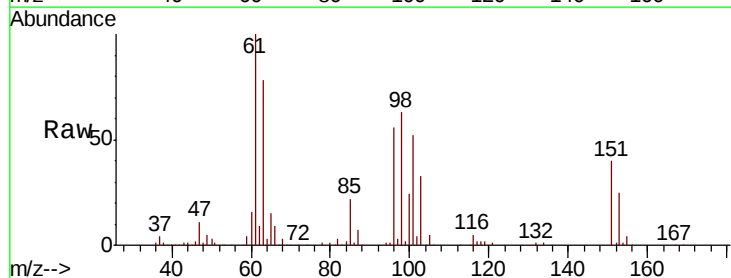
Tgt Ion: 96 Resp: 87896

Ion Ratio Lower Upper

96 100

61 177.6 127.1 236.0

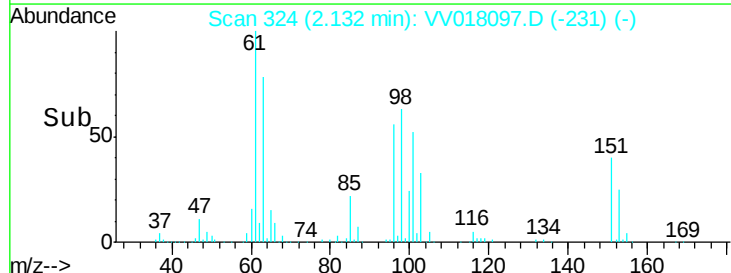
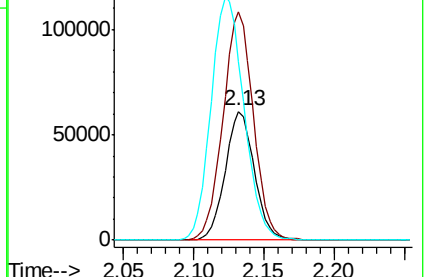
63 139.3 95.2 176.8

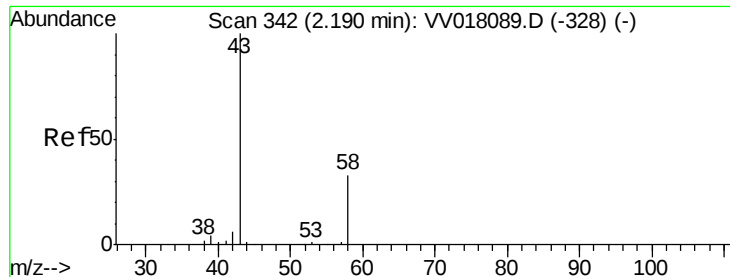


Abundance Ion 96.00 (95.70 to 96.70): VV018089.D (-312) (-)

Ion 61.00 (60.70 to 61.70): VV018089.D (-312) (-)

Ion 63.00 (62.70 to 63.70): VV018089.D (-312) (-)





#13

Acetone

Concen: 76.285 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampled :

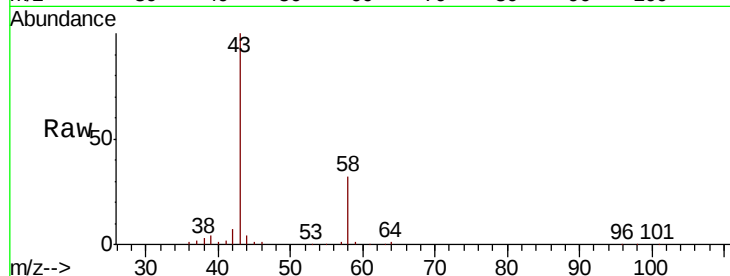
VSTD05084

Tot Ion: 43 Resp: 106205

Ion Ratio Lower Upper

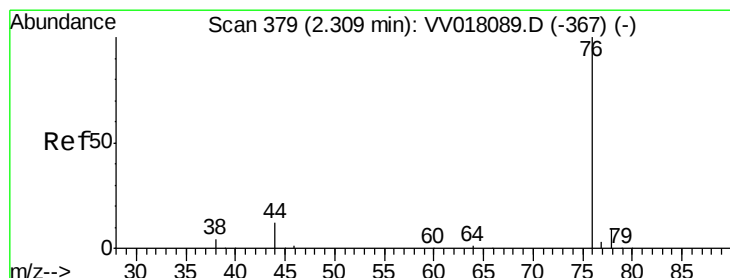
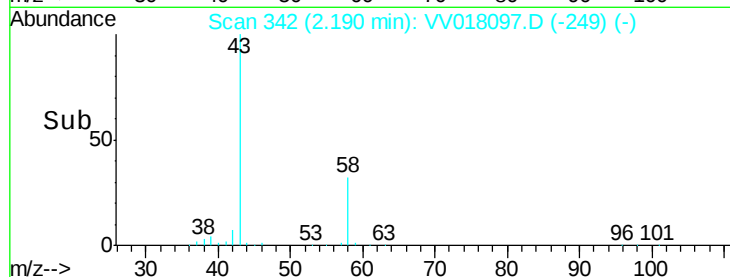
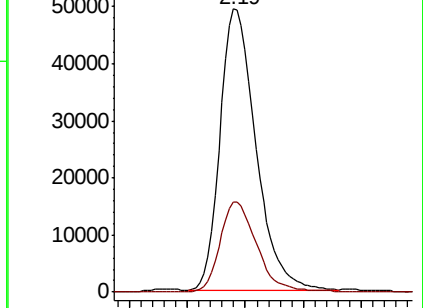
43 100

58 32.6 0.0 63.6



Abundance Ion 43.00 (42.70 to 43.70): VV018089.D (-328) (-)

Ion 58.00 (57.70 to 58.70): VV018089.D (-328) (-)



#14

Carbon disulfide

Concen: 46.088 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV018097.D

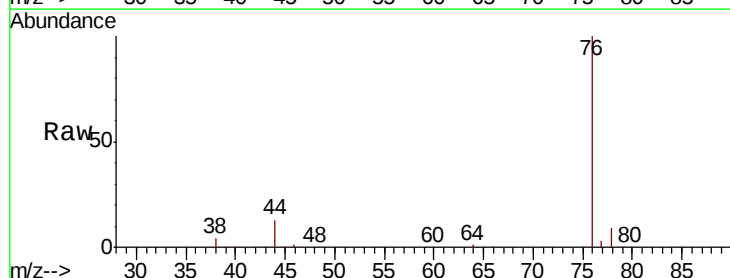
Acq: 25 Aug 2020 18:23

Tgt Ion: 76 Resp: 229507

Ion Ratio Lower Upper

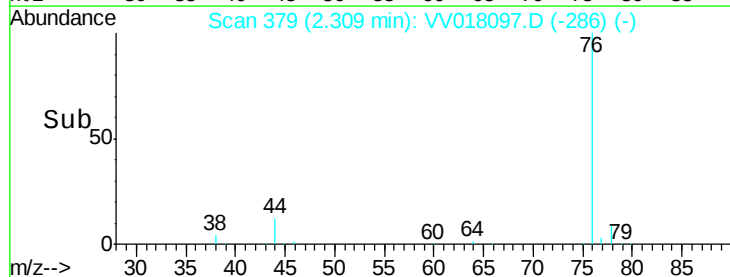
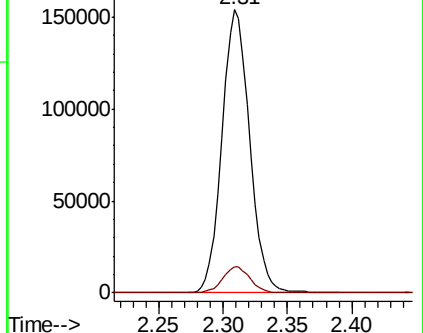
76 100

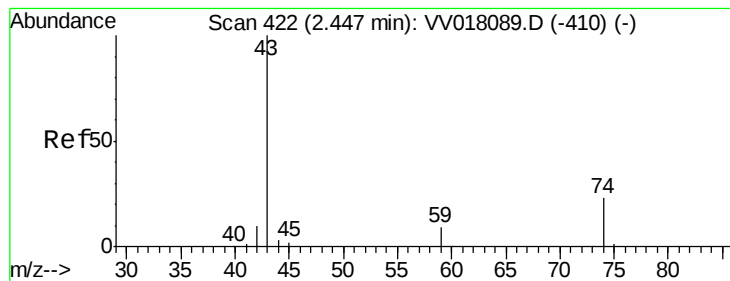
78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV018089.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV018089.D (-367) (-)





#15

Methvl Acetate

Concen: 48.735 ug/L

RT: 2.45 min Scan# 422

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

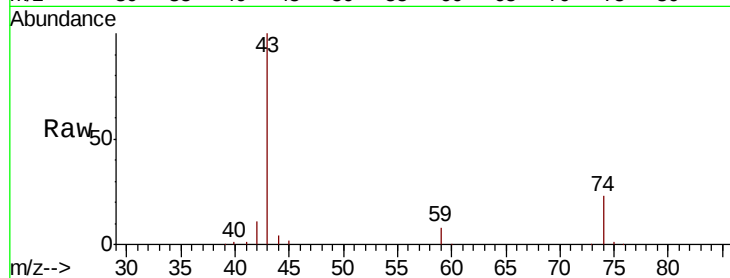
VSTD05084

Tot Ion: 43 Resp: 109495

Ion Ratio Lower Upper

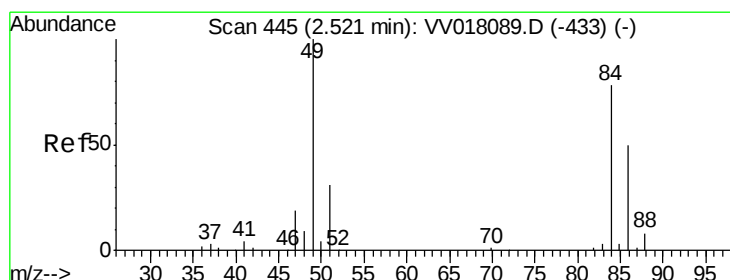
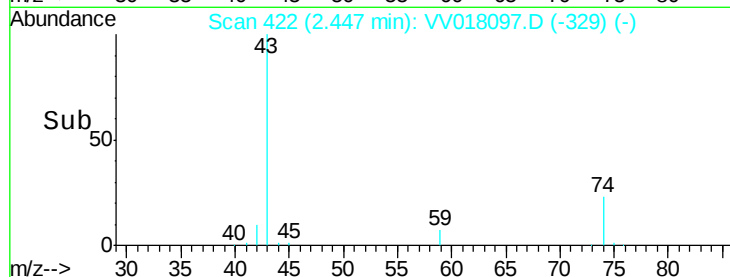
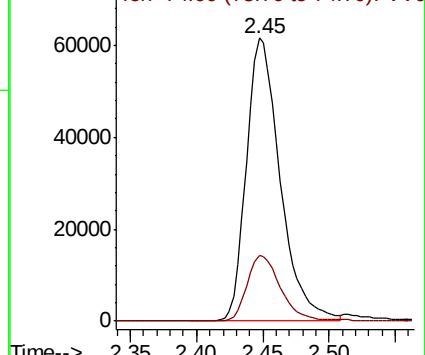
43 100

74 23.0 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 45.419 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

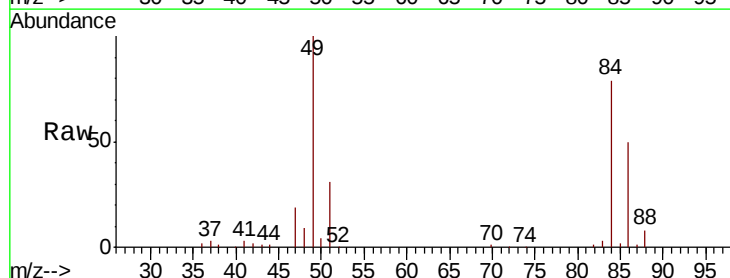
Tgt Ion: 84 Resp: 104693

Ion Ratio Lower Upper

84 100

86 63.0 46.3 85.9

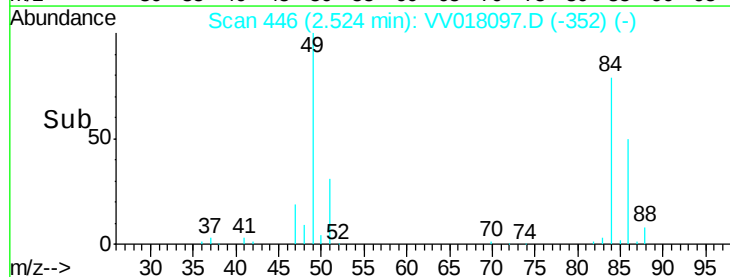
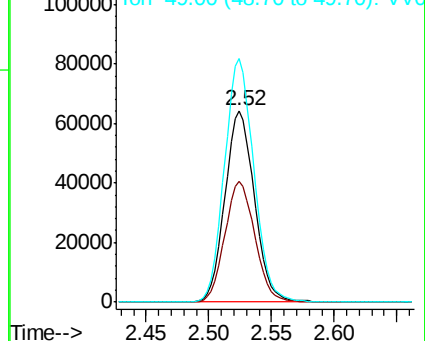
49 127.1 89.7 166.5

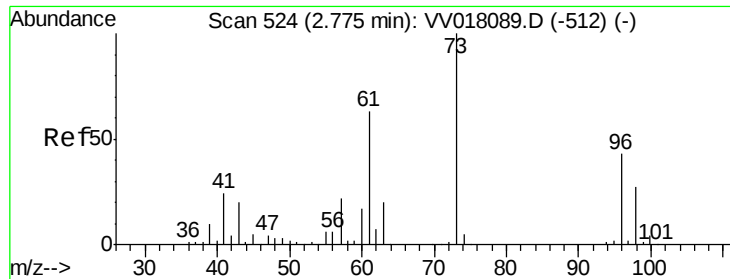


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

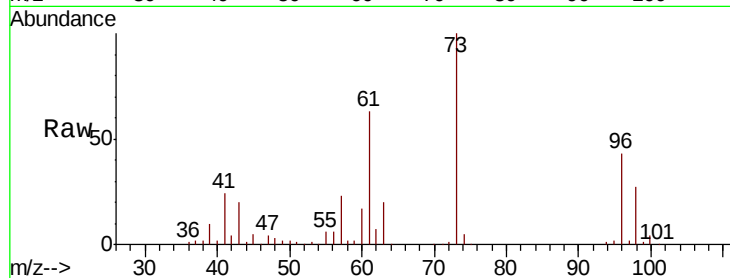




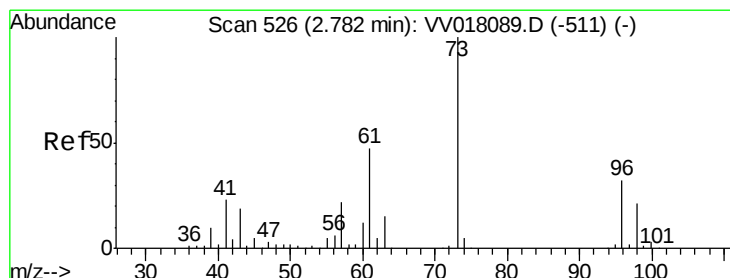
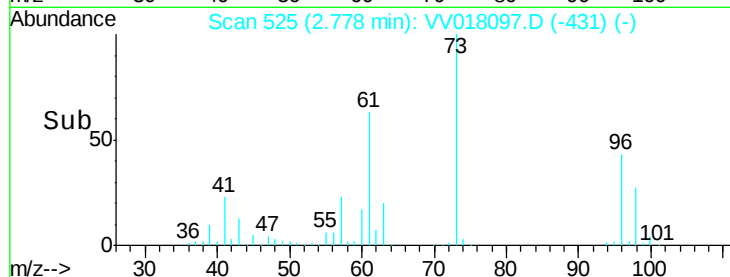
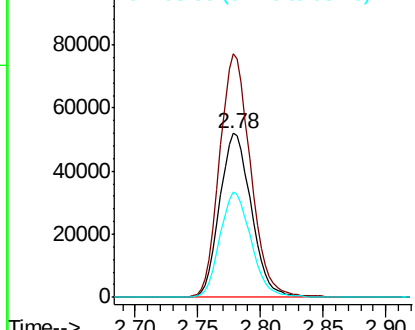
#17
trans-1,2-Dichloroethene
Concen: 49.081 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

Tot Ion: 96 Resp: 91284
Ion Ratio Lower Upper
96 100
61 148.3 102.4 190.2
98 63.9 44.4 82.5

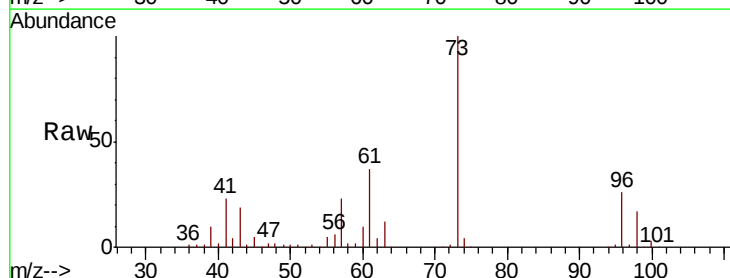


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

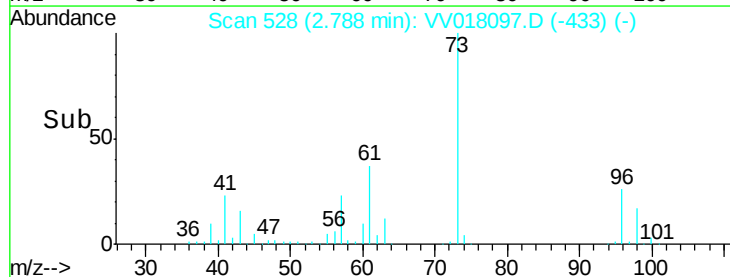
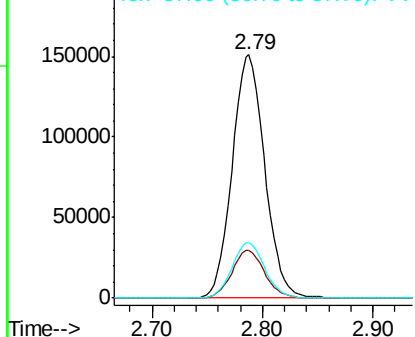


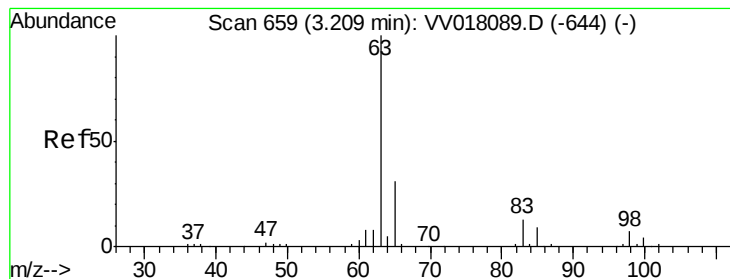
#18
Methyl tert-butyl Ether
Concen: 50.239 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.01 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Tgt Ion: 73 Resp: 309014
Ion Ratio Lower Upper
73 100
43 19.8 15.9 23.9
57 22.8 18.1 27.1



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 49.501 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

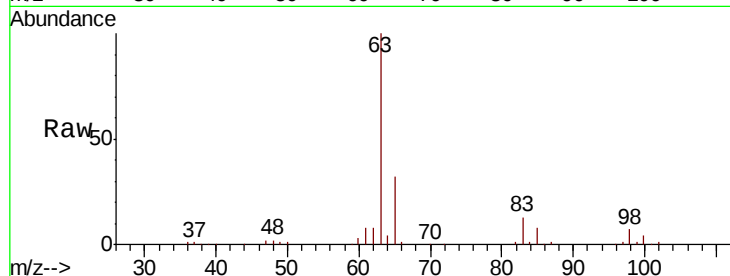
Tot Ion: 63 Resp: 185118

Ion Ratio Lower Upper

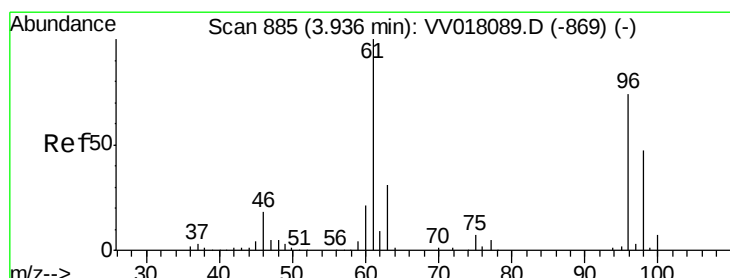
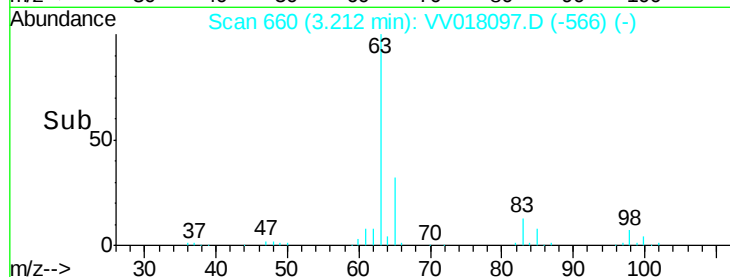
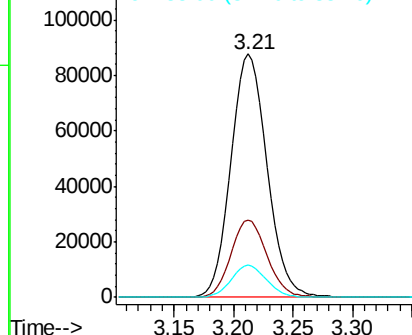
63 100

65 31.8 22.5 41.7

83 13.2 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 50.935 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

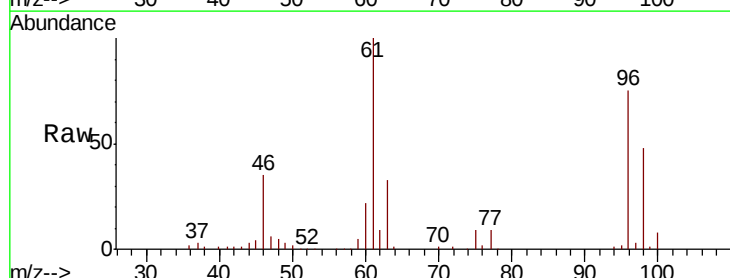
Tgt Ion: 96 Resp: 104102

Ion Ratio Lower Upper

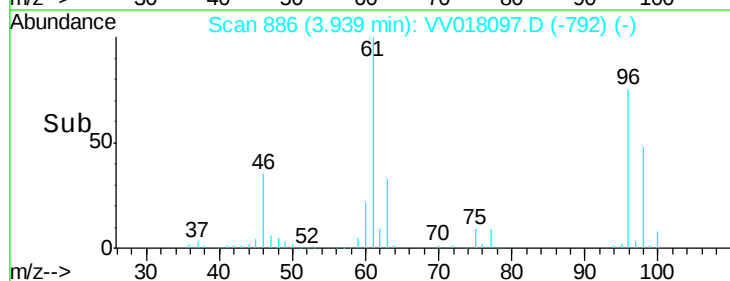
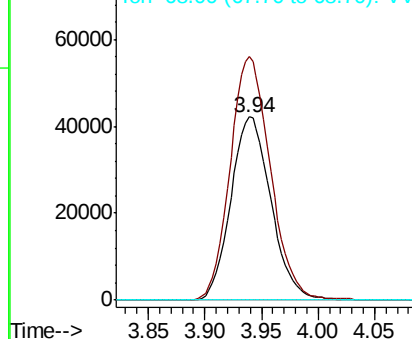
96 100

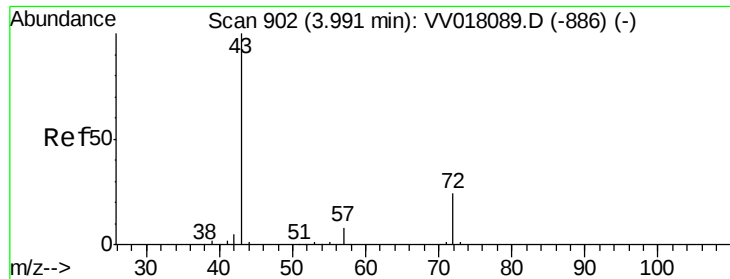
61 132.8 95.0 176.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 97.127 ug/L

RT: 3.99 min Scan# 903

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

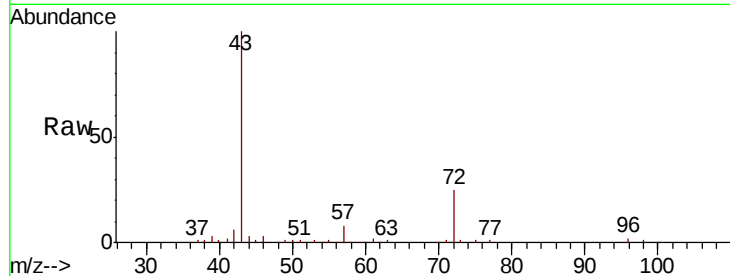
VSTD05084

Tot Ion: 43 Resp: 151697

Ion Ratio Lower Upper

43 100

72 24.5 12.7 38.0



Abundance Ion 43.00 (42.70 to 43.70): VV018089.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VV018089.D (-886) (-)

3.99

60000

50000

40000

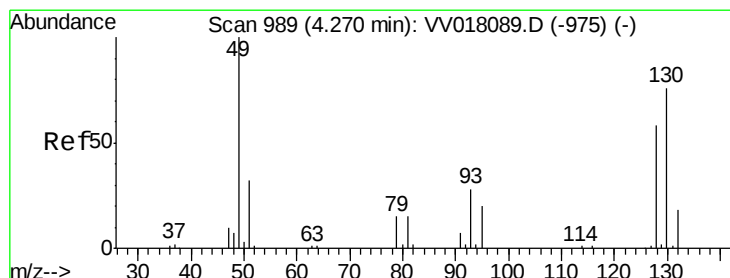
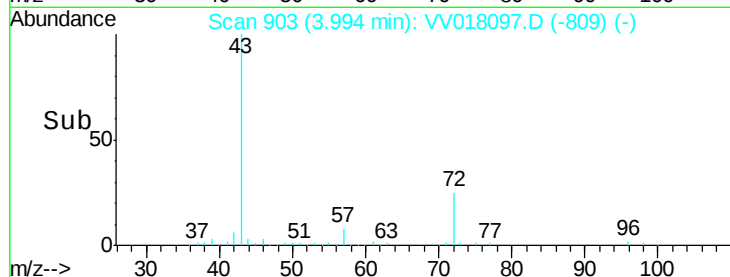
30000

20000

10000

0

Time-->



#23

Bromochloromethane

Concen: 50.982 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.01 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Tgt Ion:128 Resp: 54433

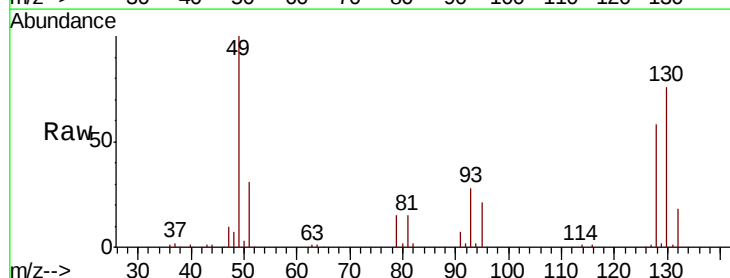
Ion Ratio Lower Upper

128 100

49 172.5 125.6 233.3

130 130.4 89.9 167.0

51 54.1 45.8 68.6



Abundance Ion 128.00 (127.70 to 128.70): VV018089.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VV018089.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VV018089.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VV018089.D (-975) (-)

60000

50000

40000

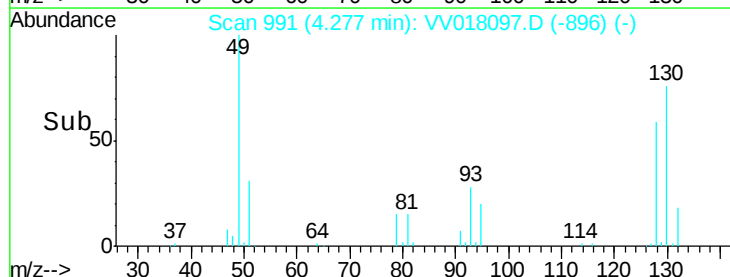
30000

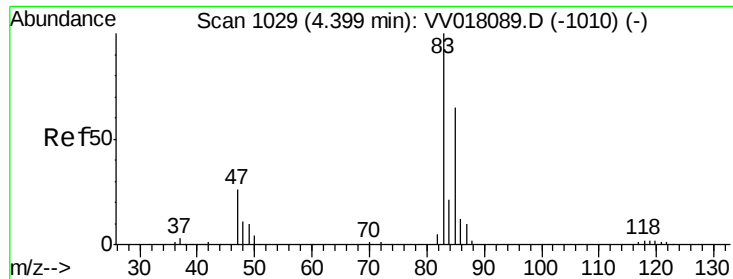
20000

10000

0

Time-->

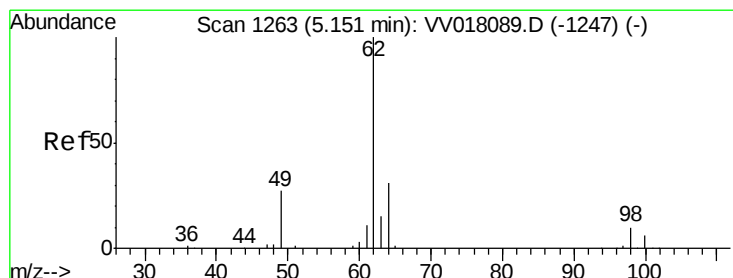
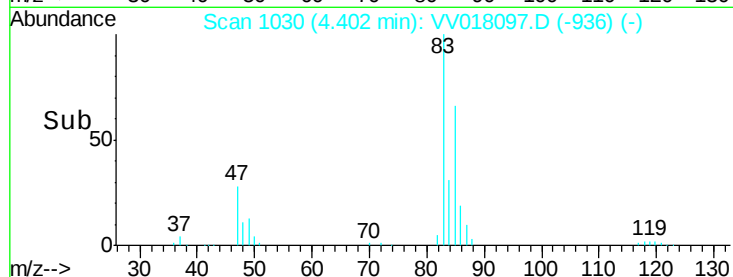
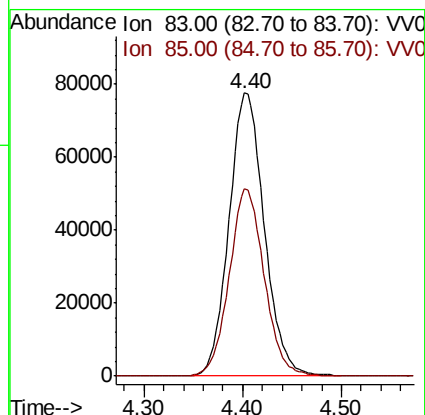
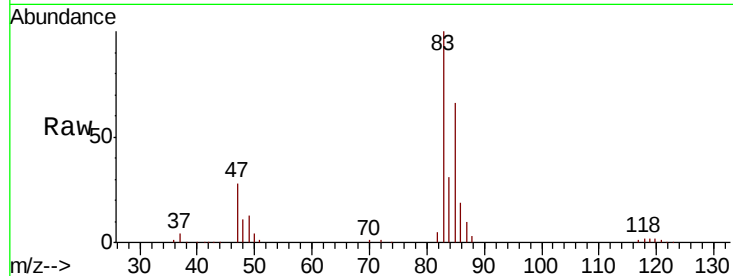




#25
Chloroform
Concen: 50.795 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

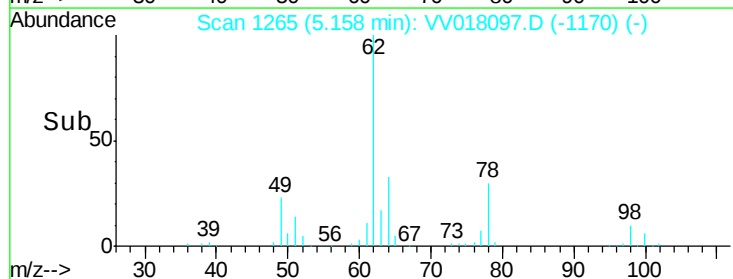
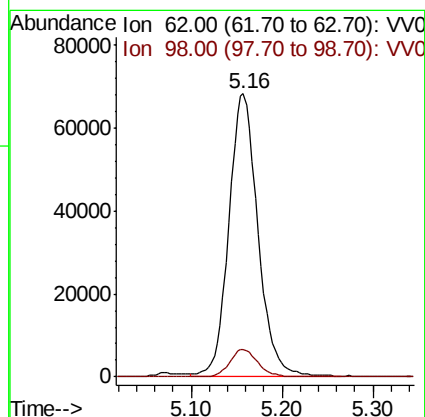
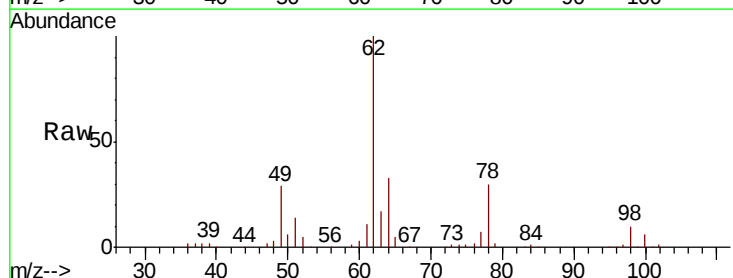
Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

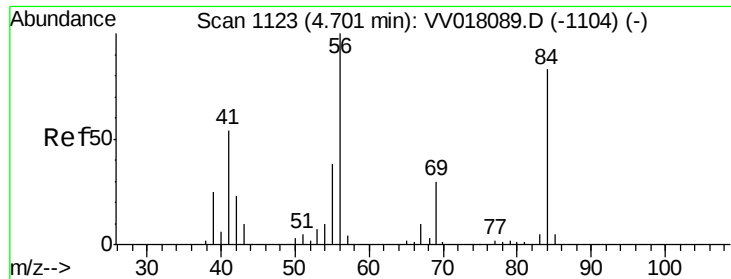
Tot Ion: 83 Resp: 193750
Ion Ratio Lower Upper
83 100
85 66.2 45.5 84.5



#27
1,2-Dichloroethane
Concen: 49.617 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Tgt Ion: 62 Resp: 150640
Ion Ratio Lower Upper
62 100
98 9.7 7.1 10.7

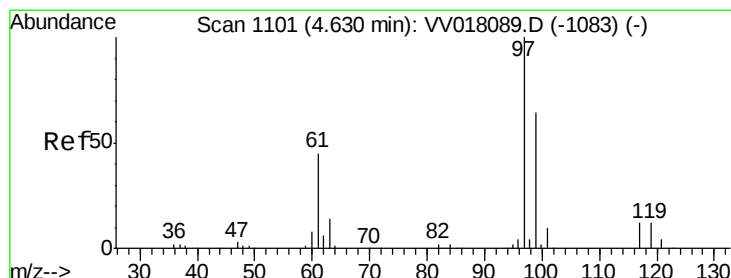
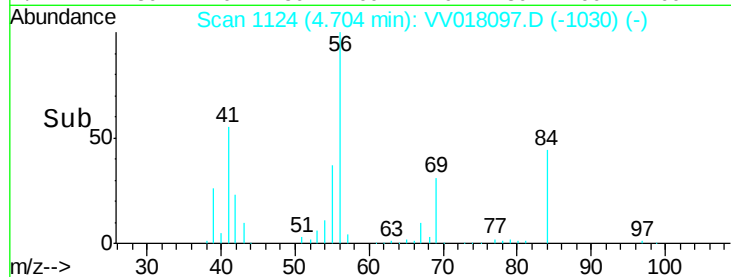
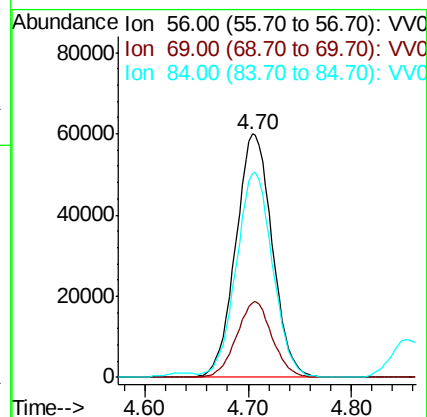
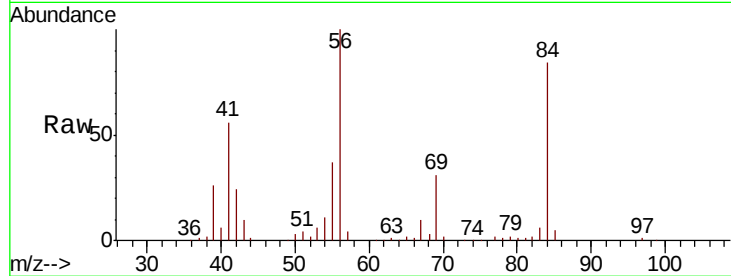




#29
Cyclohexane
Concen: 45.672 ug/L
RT: 4.70 min Scan# 1124
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

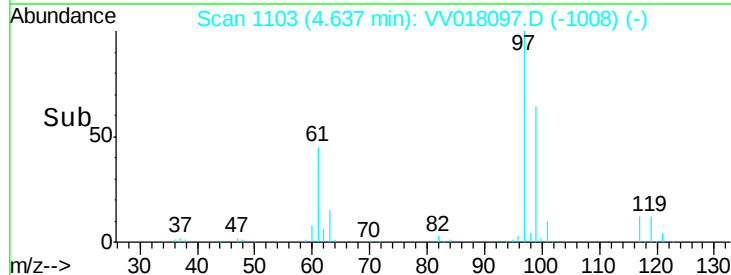
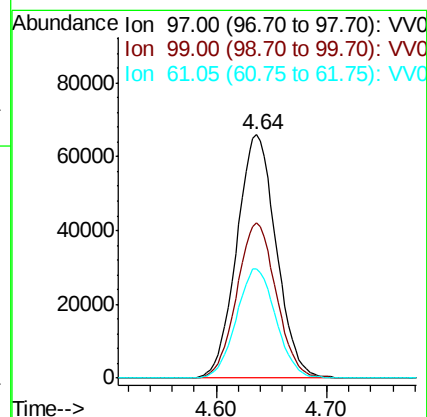
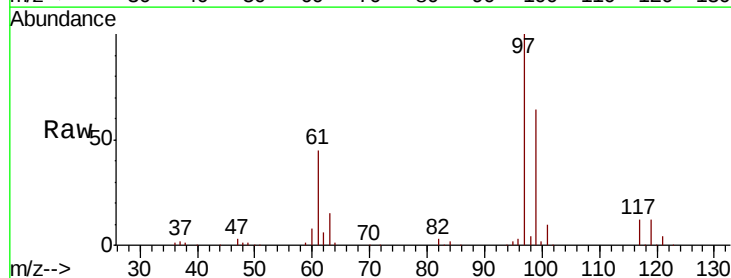
Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

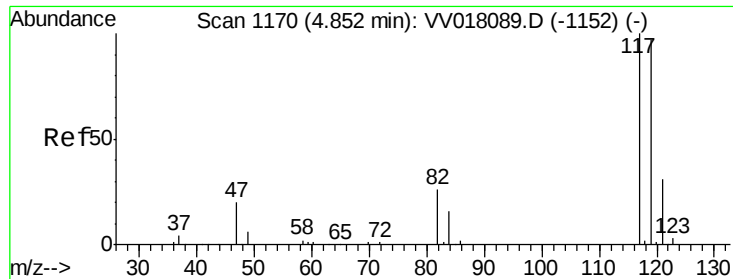
Tot Ion: 56 Resp: 147453
Ion Ratio Lower Upper
56 100
69 30.3 23.8 35.8
84 84.0 66.8 100.2



#30
1,1,1-Trichloroethane
Concen: 49.955 ug/L
RT: 4.64 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Tgt Ion: 97 Resp: 163755
Ion Ratio Lower Upper
97 100
99 63.6 50.6 76.0
61 44.9 37.0 55.6

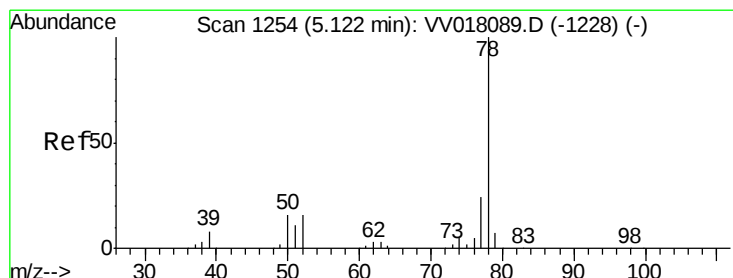
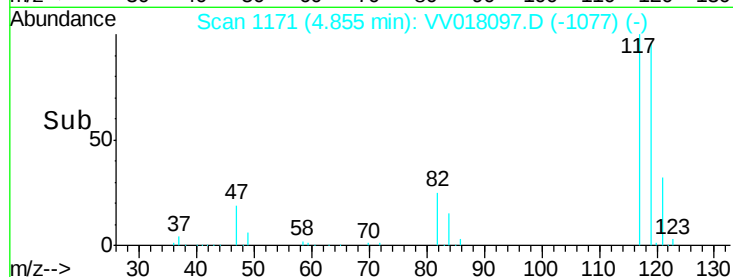
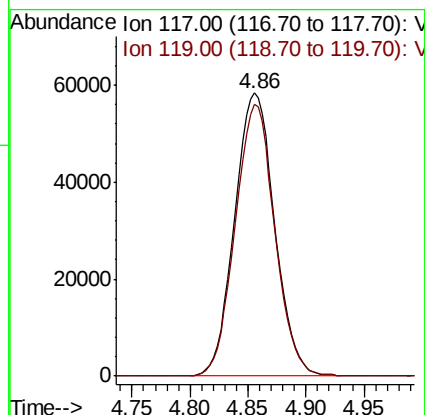
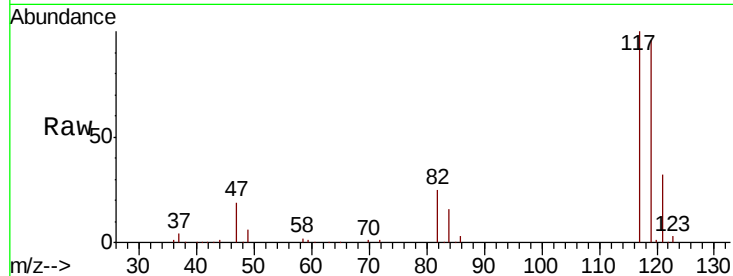




#31
Carbon tetrachloride
Concen: 51.210 ug/L
RT: 4.86 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

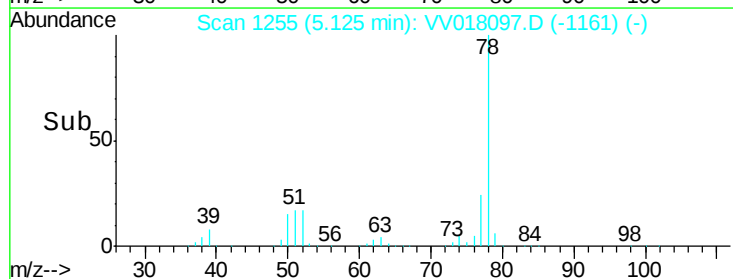
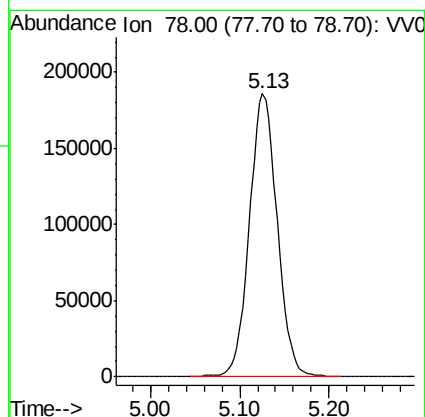
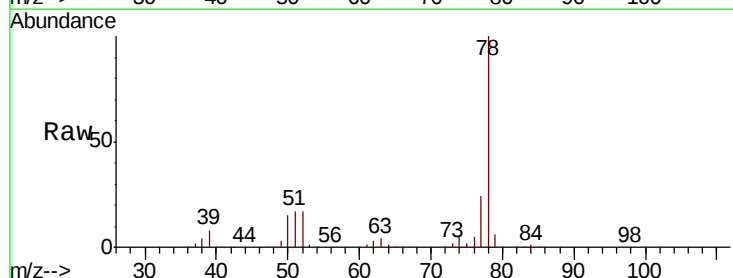
Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

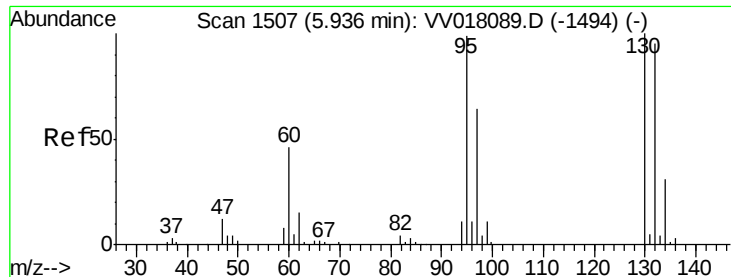
Tot Ion:117 Resp: 139748
Ion Ratio Lower Upper
117 100
119 95.0 77.0 115.6



#33
Benzene
Concen: 48.707 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Tgt Ion: 78 Resp: 403098





#34

Trichloroethene

Concen: 47.971 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

Tot Ion: 95 Resp: 104941

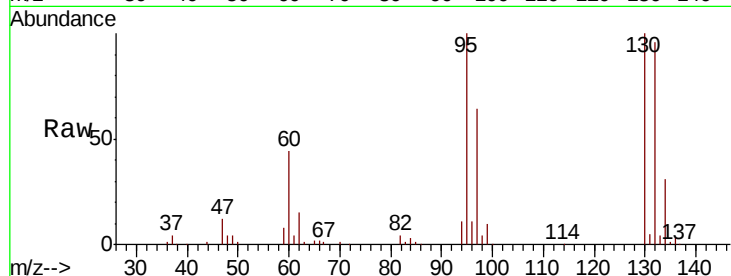
Ion Ratio Lower Upper

95 100

97 63.7 46.0 85.4

132 96.1 65.8 122.2

130 100.1 69.2 128.6



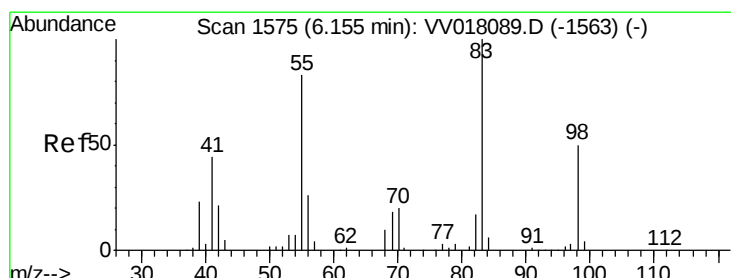
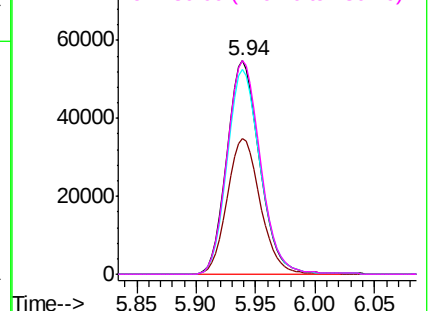
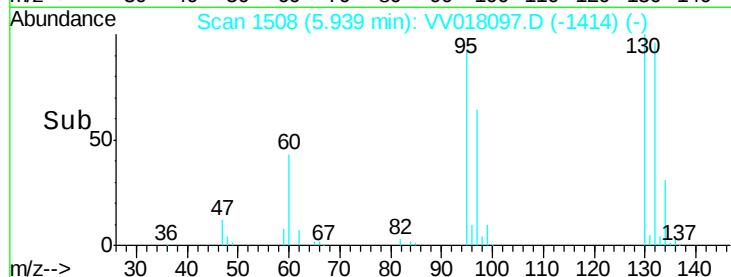
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 46.739 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

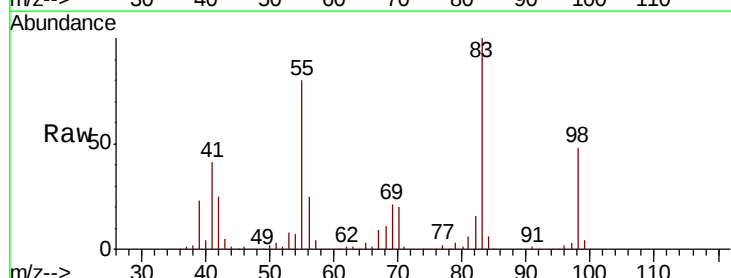
Tgt Ion: 83 Resp: 152036

Ion Ratio Lower Upper

83 100

55 79.8 64.9 97.3

98 47.8 38.7 58.1

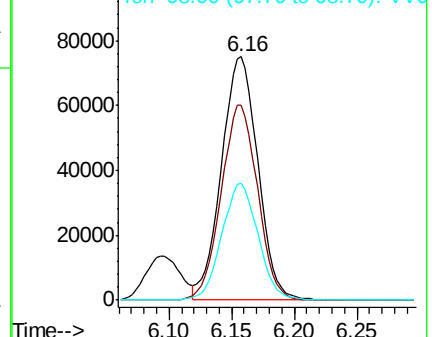
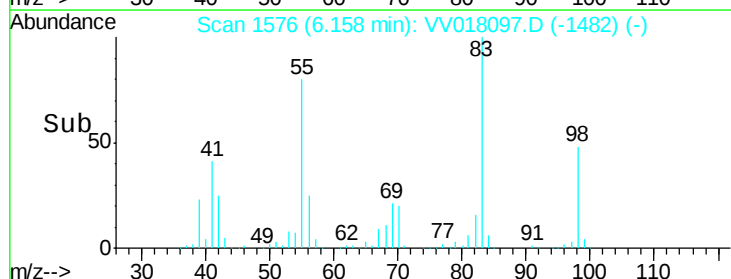


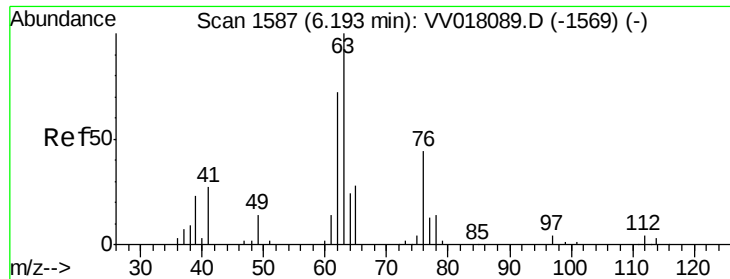
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 48.571 ug/L

RT: 6.20 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

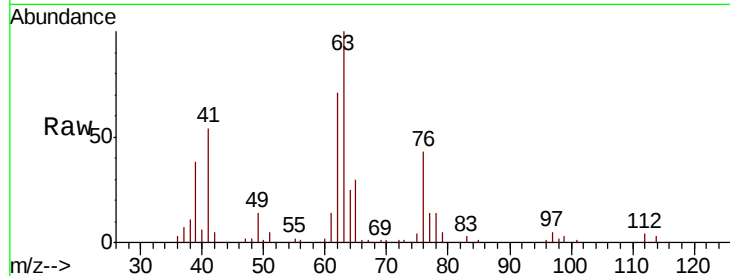
VSTD05084

Tot Ion: 63 Resp: 109623

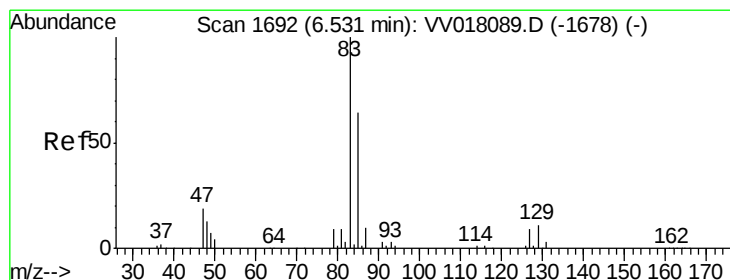
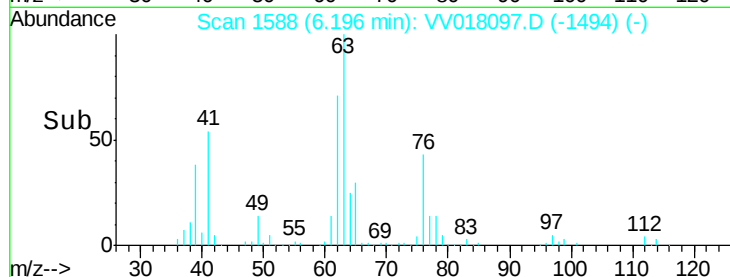
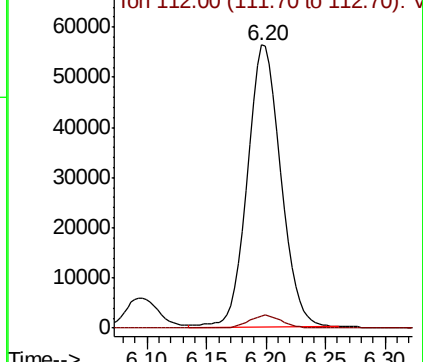
Ion Ratio Lower Upper

63 100

112 4.6 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VV018097.D (-1494) (-)



#38

Bromodichloromethane

Concen: 51.480 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

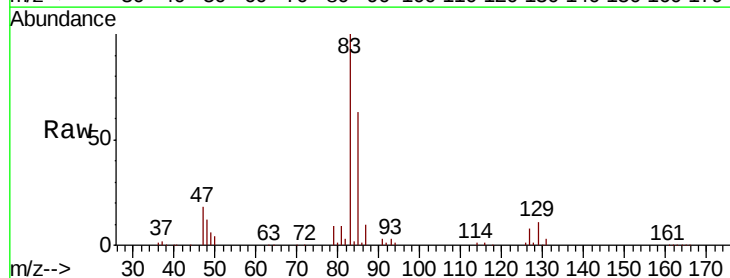
Tgt Ion: 83 Resp: 144319

Ion Ratio Lower Upper

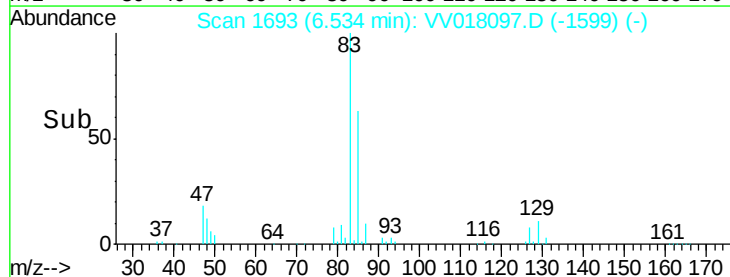
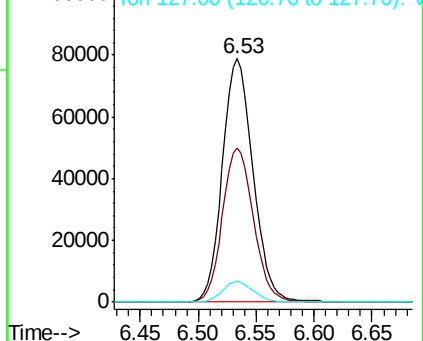
83 100

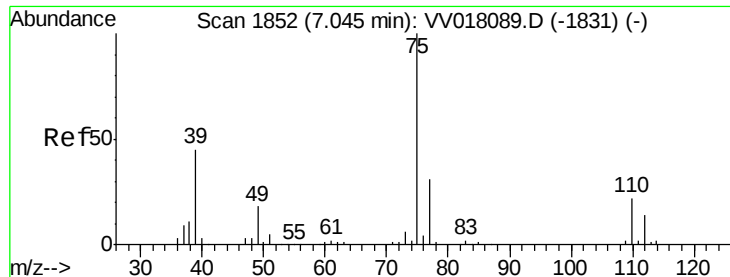
85 63.4 44.3 82.3

127 8.3 6.5 9.7



Abundance Ion 83.00 (82.70 to 83.70): VV018097.D (-1599) (-)

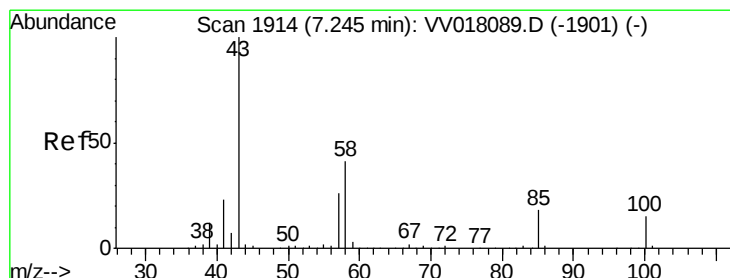
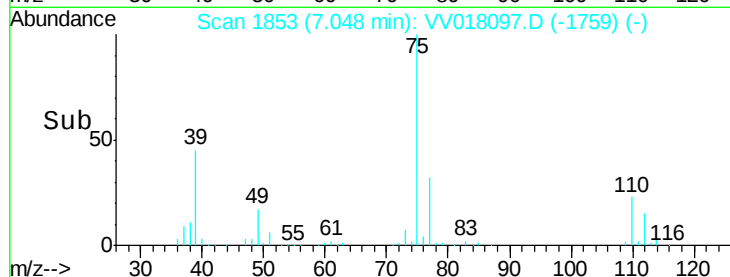
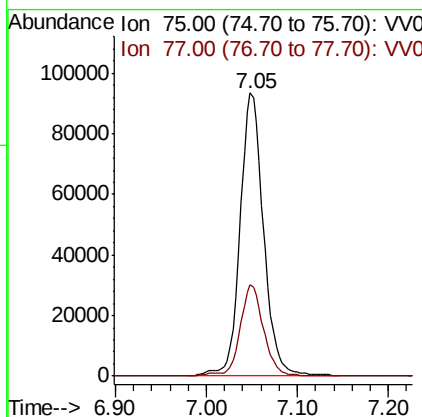
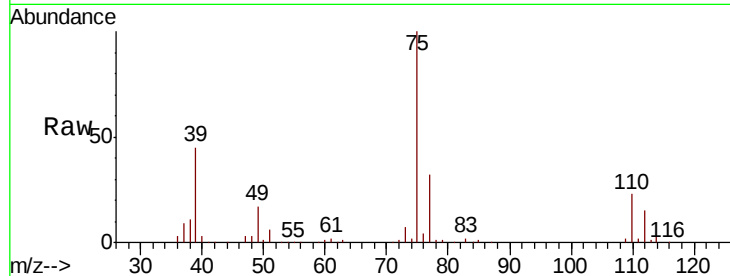




#39
 cis-1,3-Dichloropropene
 Concen: 52.485 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV018097.D
 Acq: 25 Aug 2020 18:23

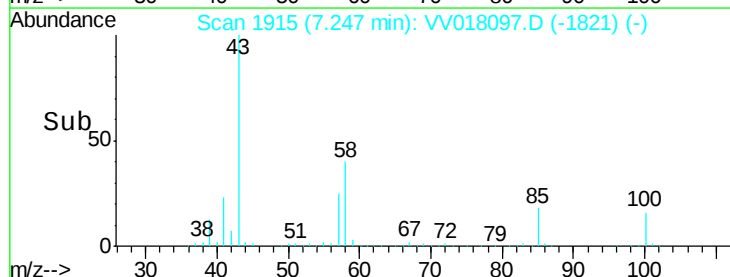
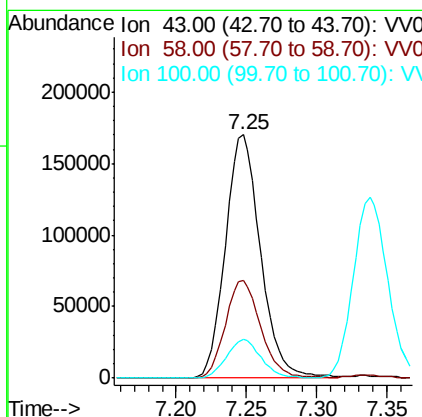
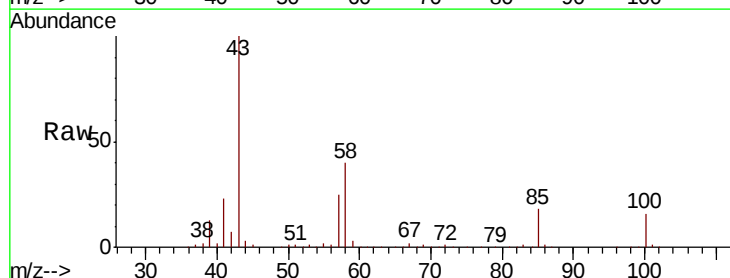
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

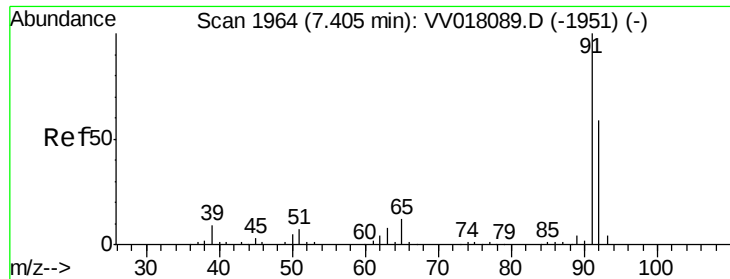
Tot Ion: 75 Resp: 167929
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 100.449 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VV018097.D
 Acq: 25 Aug 2020 18:23

Tgt Ion: 43 Resp: 296368
 Ion Ratio Lower Upper
 43 100
 58 40.3 31.9 47.9
 100 15.7 12.2 18.2





#42

Toluene

Concen: 49.970 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

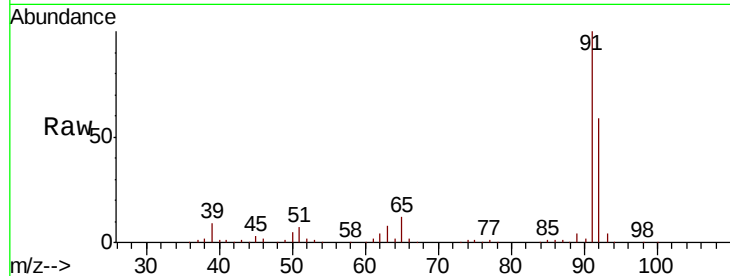
VSTD05084

Tot Ion: 91 Resp: 431533

Ion Ratio Lower Upper

91 100

92 58.6 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VV018089.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV018089.D (-1951) (-)

7.41

250000

200000

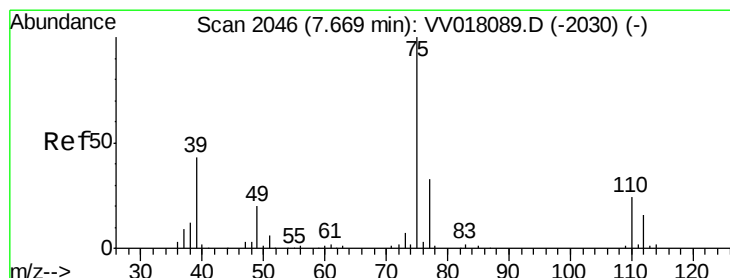
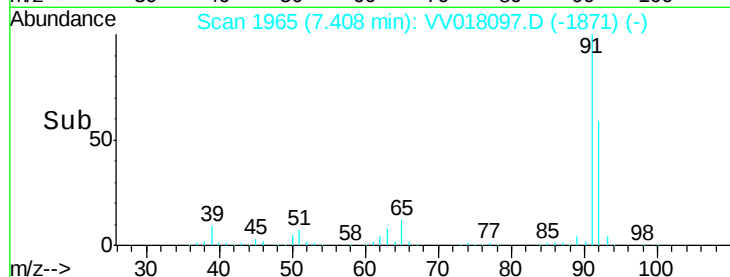
150000

100000

50000

0

Time--> 7.30 7.40 7.50



#44

trans-1,3-Dichloropropene

Concen: 54.437 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV018097.D

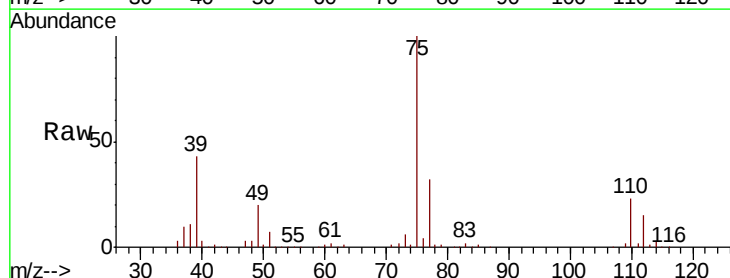
Acq: 25 Aug 2020 18:23

Tgt Ion: 75 Resp: 165257

Ion Ratio Lower Upper

75 100

77 32.1 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV018089.D (-2030) (-)

Ion 77.00 (76.70 to 77.70): VV018089.D (-2030) (-)

7.67

100000

80000

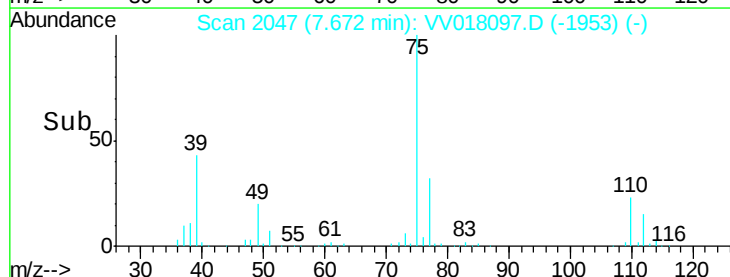
60000

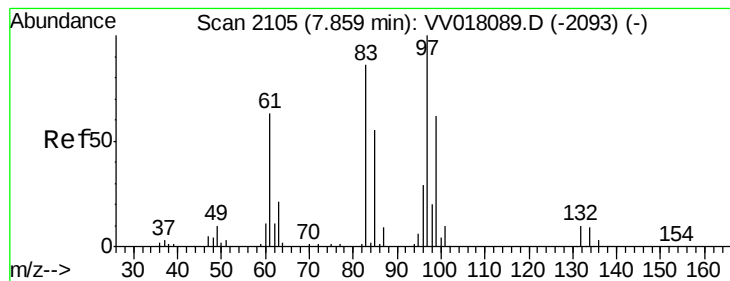
40000

20000

0

Time--> 7.60 7.70 7.80





#45

1,1,2-Trichloroethane

Concen: 50.199 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

Tot Ion: 97 Resp: 104922

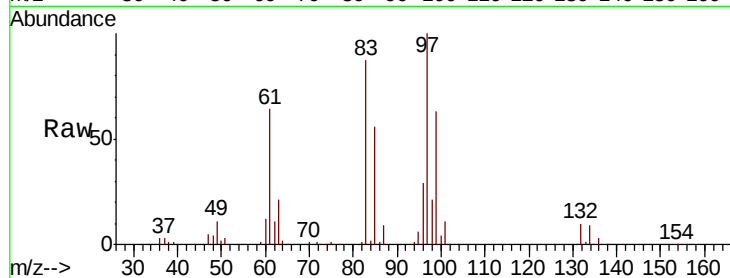
Ion Ratio Lower Upper

97 100

99 62.9 44.2 82.2

83 87.1 61.0 113.4

85 56.0 39.5 73.4

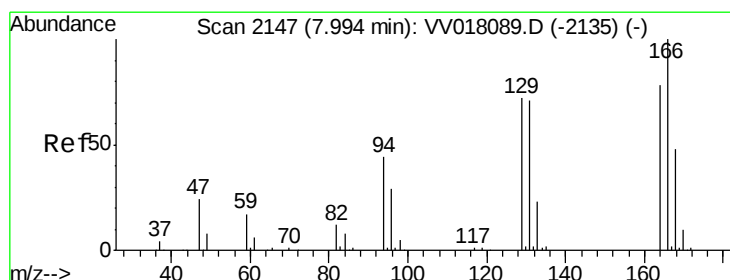
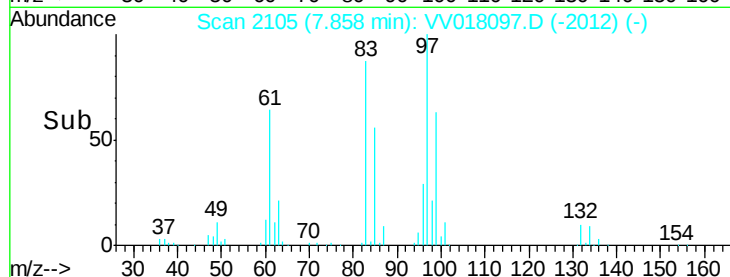
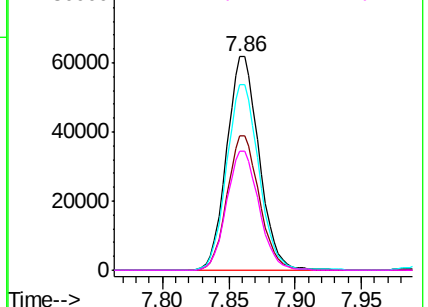


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 51.705 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Tgt Ion: 164 Resp: 82954

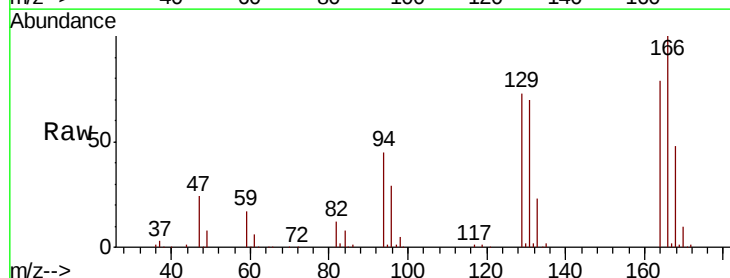
Ion Ratio Lower Upper

164 100

129 92.6 64.8 120.3

131 89.5 64.5 119.9

166 127.1 88.9 165.1

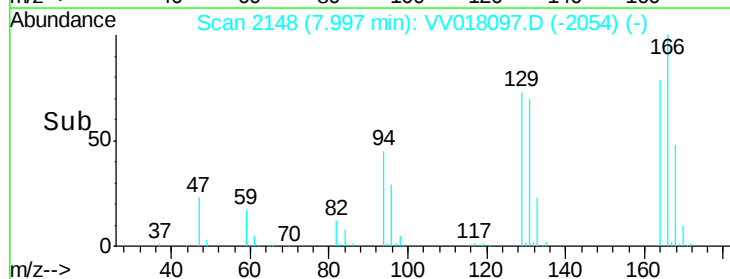
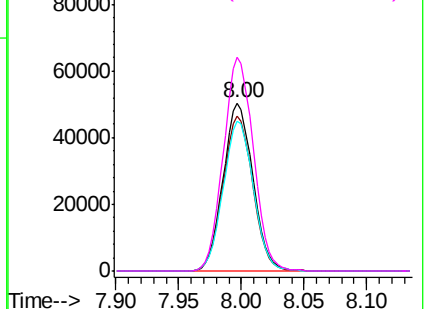


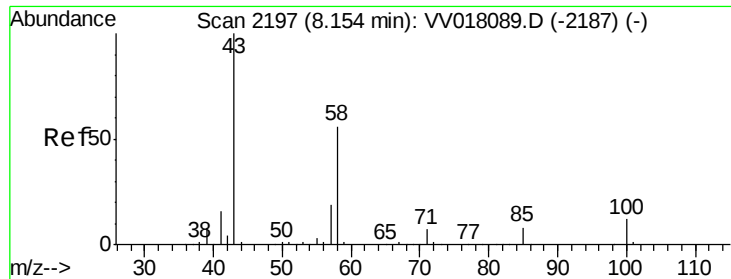
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

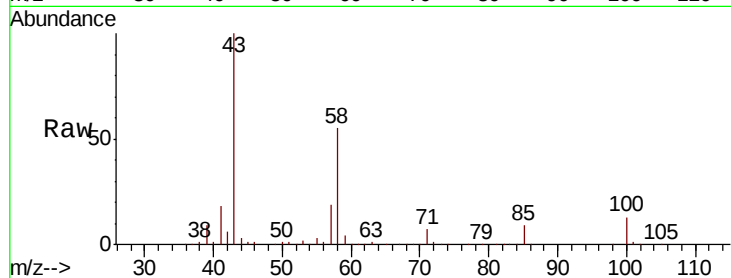




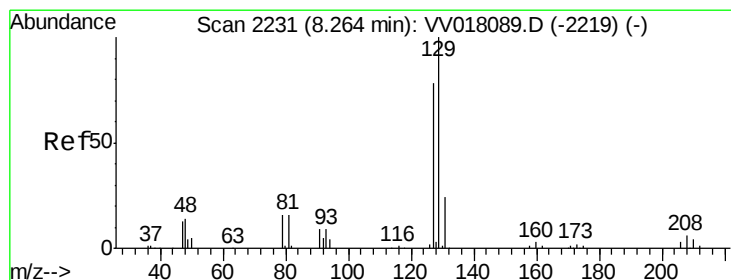
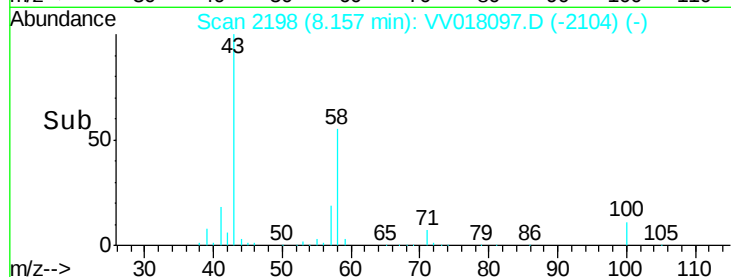
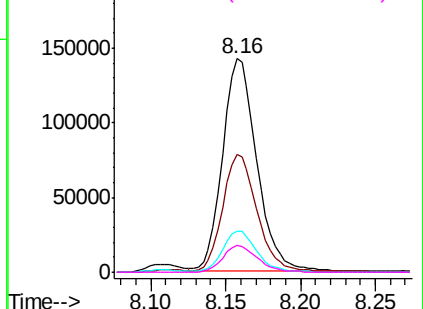
#48
2-Hexanone
Concen: 94.892 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

Tot Ion:	43	Resp:	225766
Ion	Ratio	Lower	Upper
43	100		
58	55.6	44.4	66.6
57	19.1	15.2	22.8
100	12.9	9.8	14.6

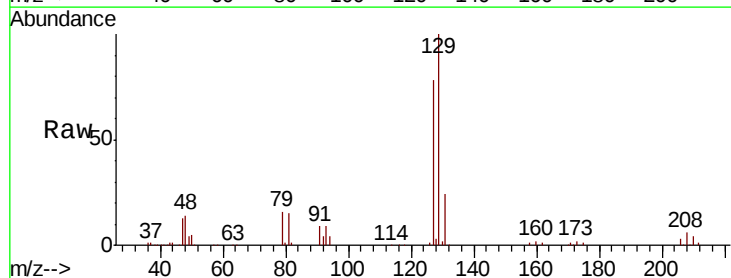


Abundance Ion 43.00 (42.70 to 43.70): VV018097.D (-2197) (-)
Ion 58.00 (57.70 to 58.70): VV018097.D (-2197) (-)
Ion 57.00 (56.70 to 57.70): VV018097.D (-2197) (-)
Ion 100.00 (99.70 to 100.70): VV018097.D (-2197) (-)

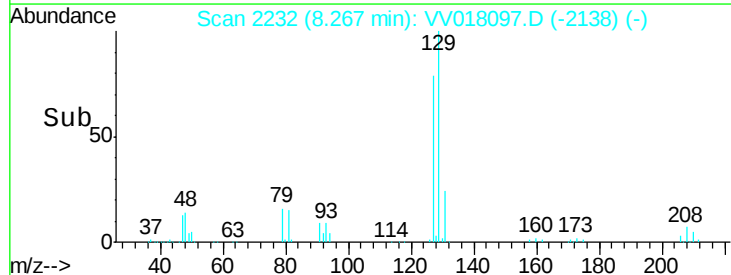
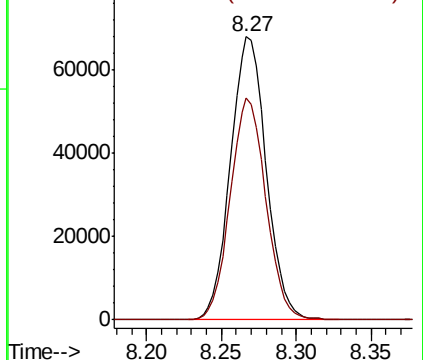


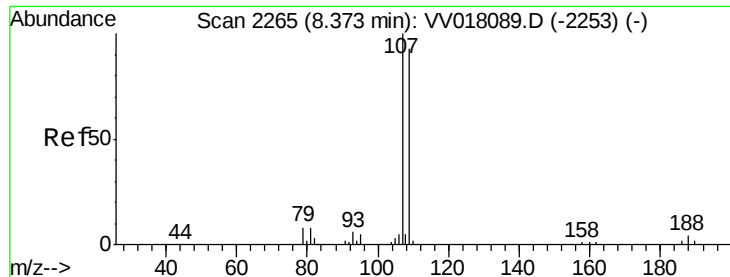
#49
Dibromochloromethane
Concen: 55.709 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Tgt Ion:	129	Resp:	113655
Ion	Ratio	Lower	Upper
129	100		
127	78.4	54.9	101.9



Abundance Ion 129.00 (128.70 to 129.70): VV018097.D (-2231) (-)
Ion 127.00 (126.70 to 127.70): VV018097.D (-2231) (-)

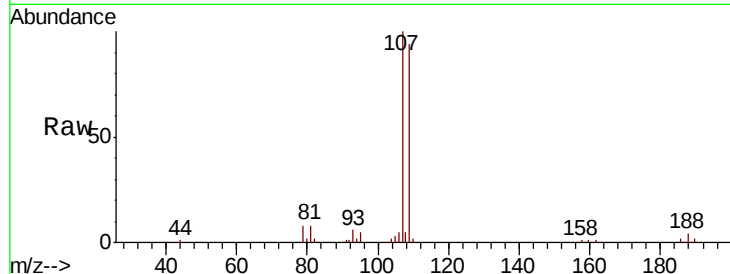




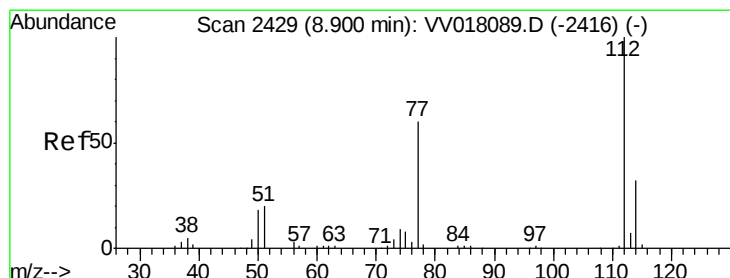
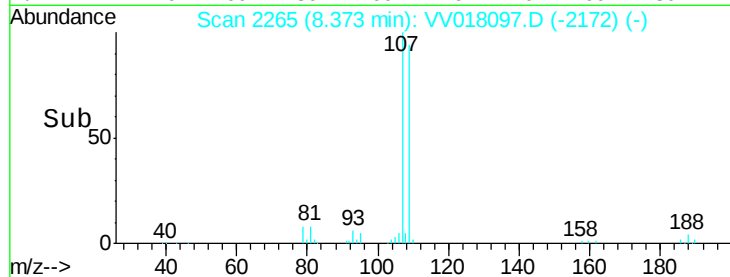
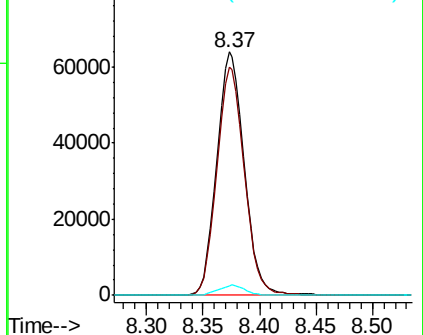
#50
1,2-Dibromoethane
Concen: 49.893 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. -0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	67.5	125.4
188	4.0	3.4	5.0

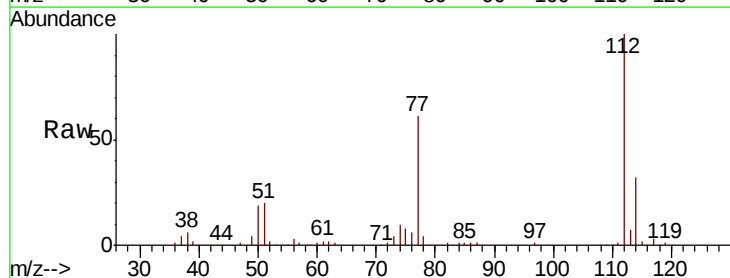


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

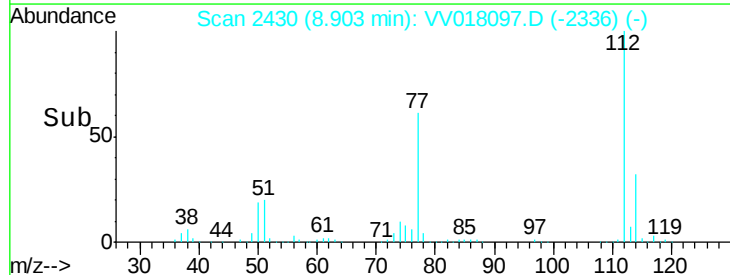
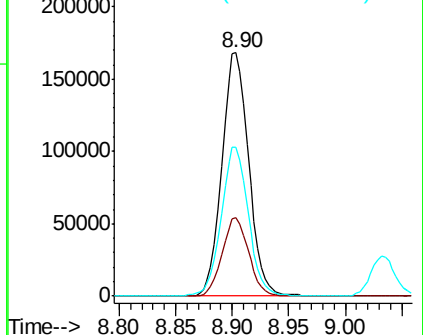


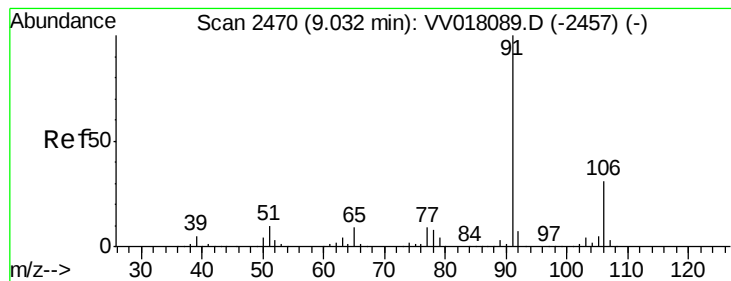
#51
Chlorobenzene
Concen: 50.136 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV018097.D
Acq: 25 Aug 2020 18:23

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.7	42.3
77	61.1	49.4	74.2



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 50.511 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

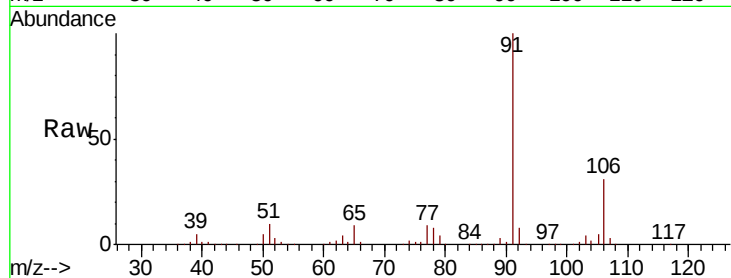
VSTD05084

Tot Ion: 91 Resp: 475623

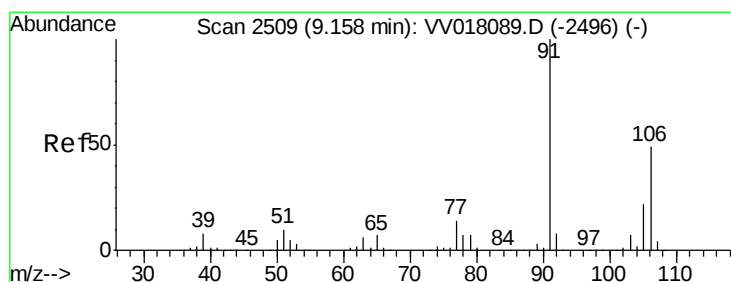
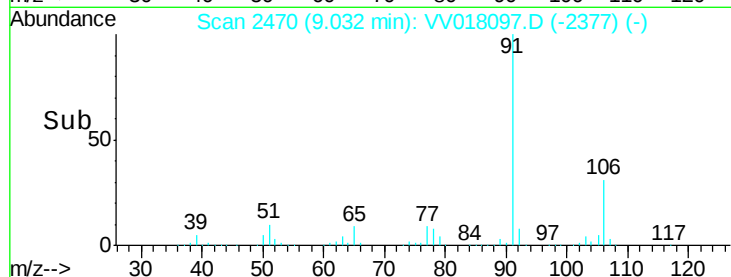
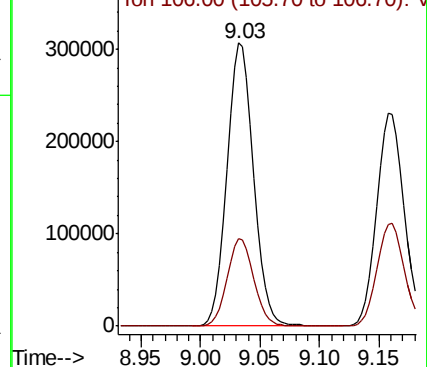
Ion Ratio Lower Upper

91 100

106 30.9 21.1 39.3



Abundance Ion 91.00 (90.70 to 91.70): VV018097.D (-2377) (-)



#53

m,p-Xylene

Concen: 51.353 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV018097.D

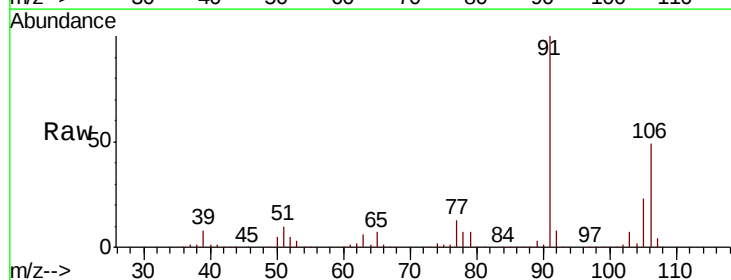
Acq: 25 Aug 2020 18:23

Tgt Ion: 106 Resp: 177847

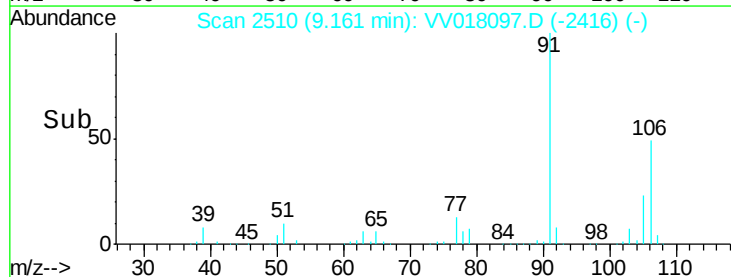
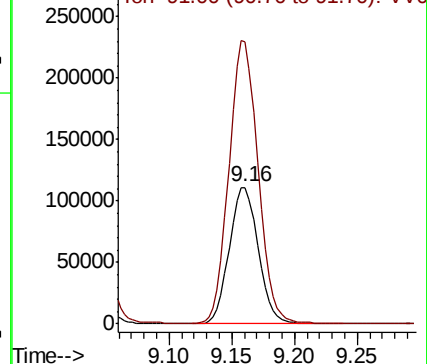
Ion Ratio Lower Upper

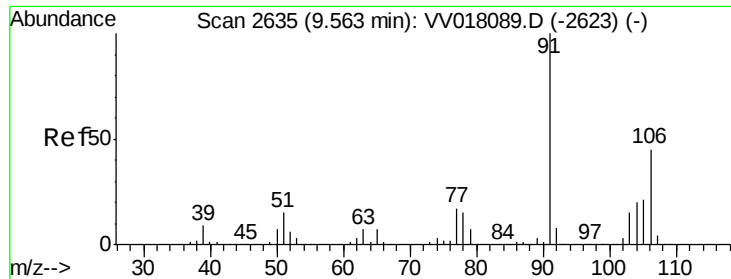
106 100

91 206.2 147.3 273.6



Abundance Ion 106.00 (105.70 to 106.70): VV018097.D (-2416) (-)





#54

o-xylene

Concen: 51.073 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

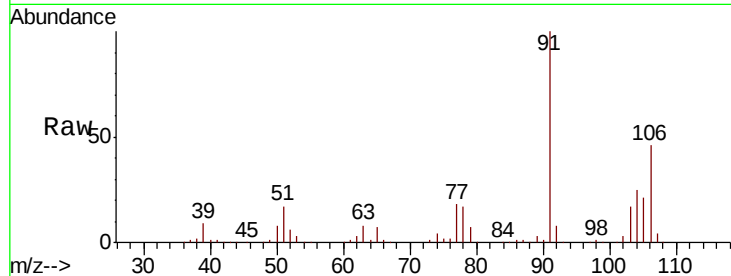
VSTD05084

Tot Ion:106 Resp: 174797

Ion Ratio Lower Upper

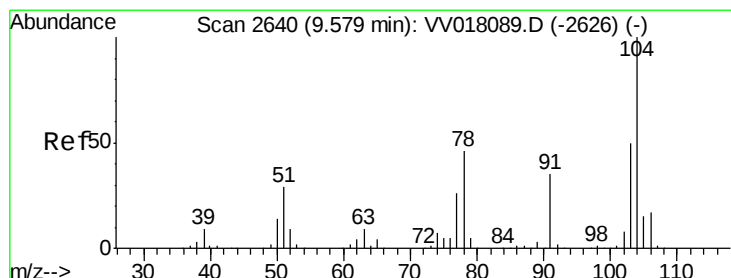
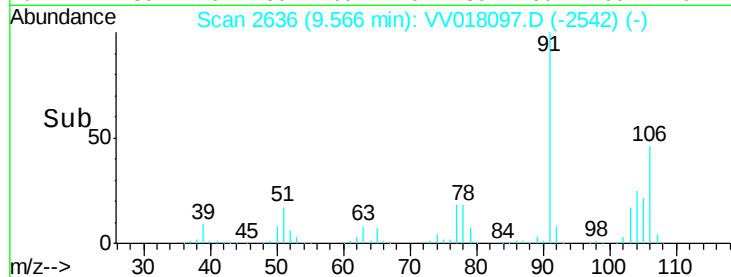
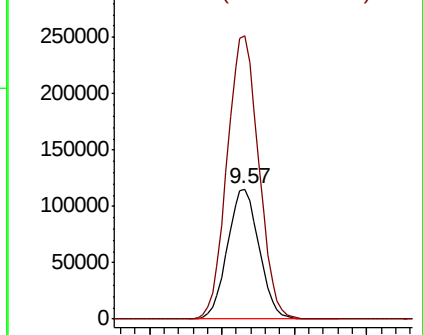
106 100

91 218.0 156.0 289.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 53.453 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV018097.D

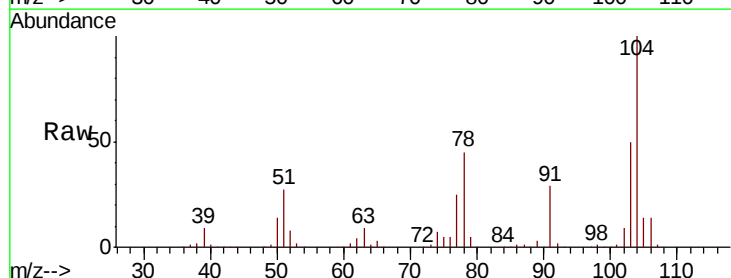
Acq: 25 Aug 2020 18:23

Tgt Ion:104 Resp: 313287

Ion Ratio Lower Upper

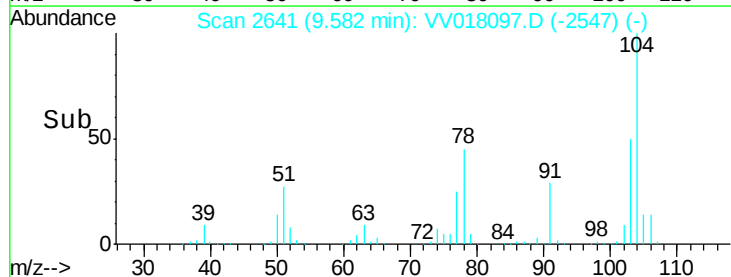
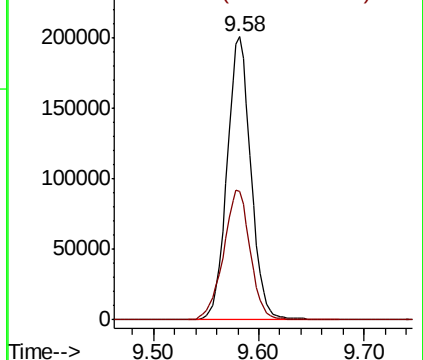
104 100

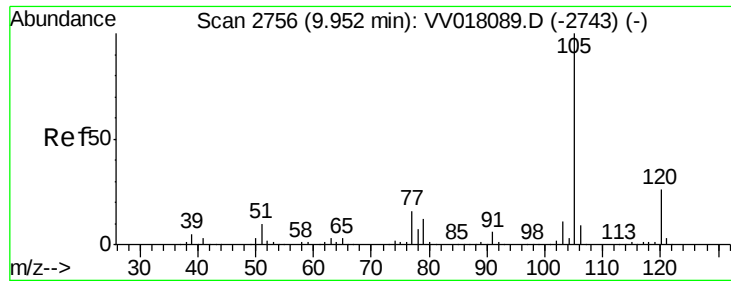
78 45.5 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 51.807 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

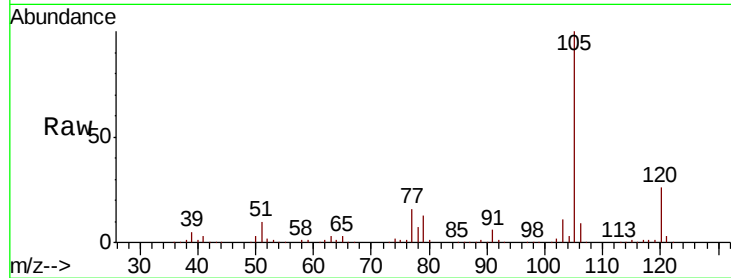
Tot Ion:105 Resp: 467754

Ion Ratio Lower Upper

105 100

120 26.1 20.6 31.0

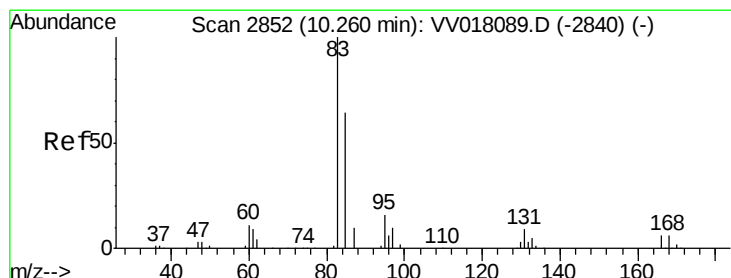
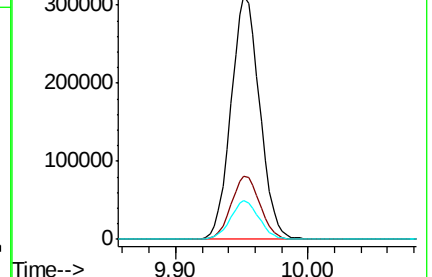
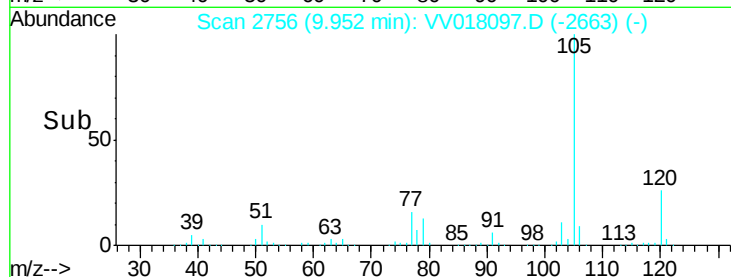
77 15.9 13.1 19.7



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: 51.034 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

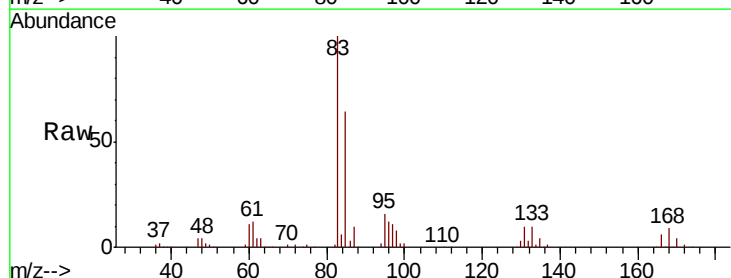
Tgt Ion: 83 Resp: 166104

Ion Ratio Lower Upper

83 100

85 64.3 45.1 83.7

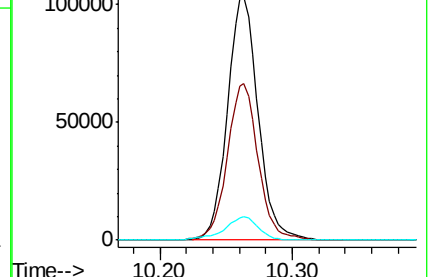
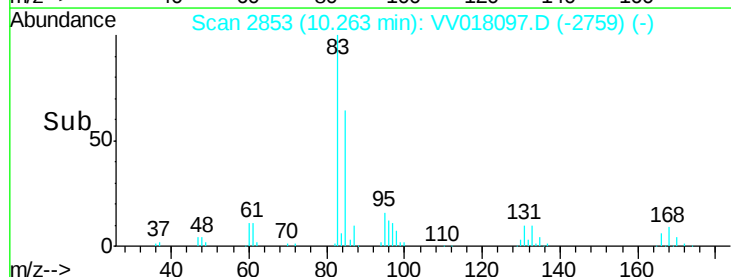
131 9.7 7.8 11.6

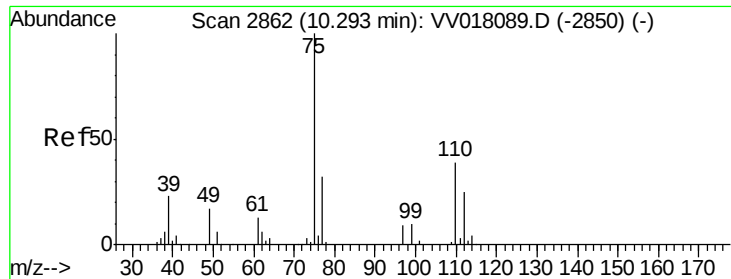


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.413 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

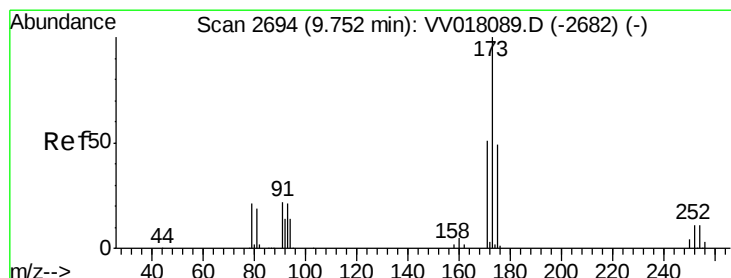
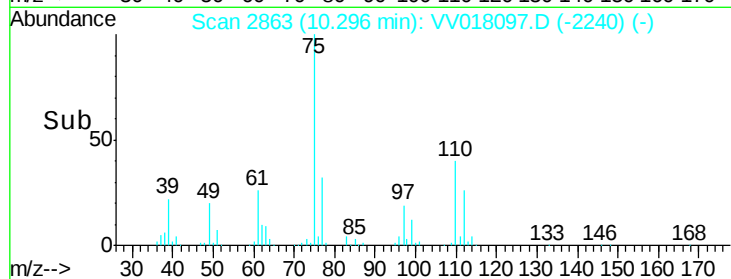
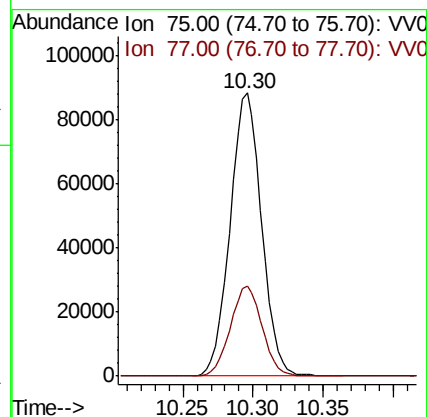
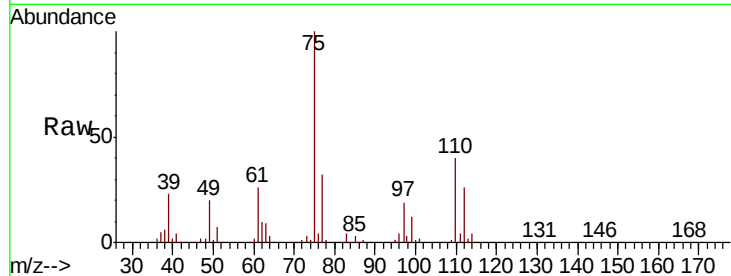
VSTD05084

Tot Ion: 75 Resp: 137733

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5



#61

Bromoform

Concen: 59.809 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

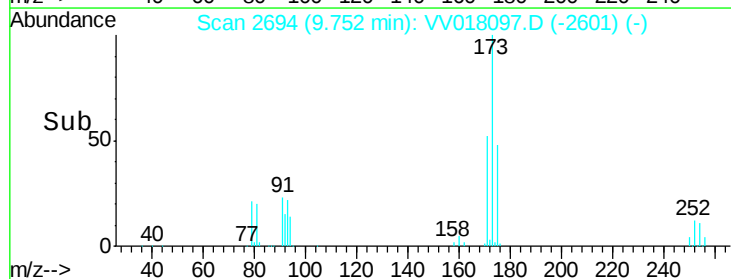
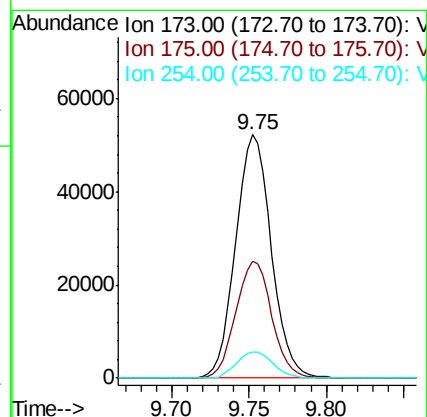
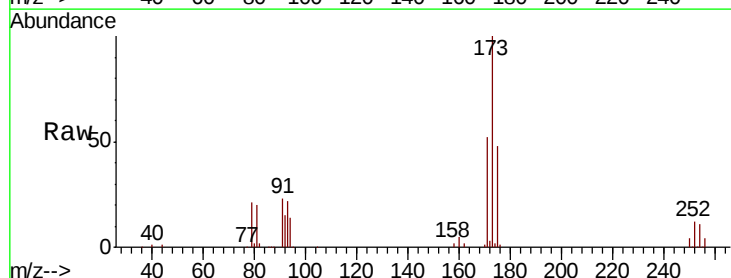
Tgt Ion: 173 Resp: 83435

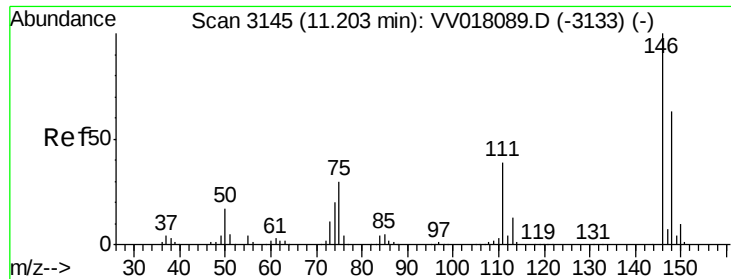
Ion Ratio Lower Upper

173 100

175 48.4 38.6 57.8

254 11.0 8.4 12.6

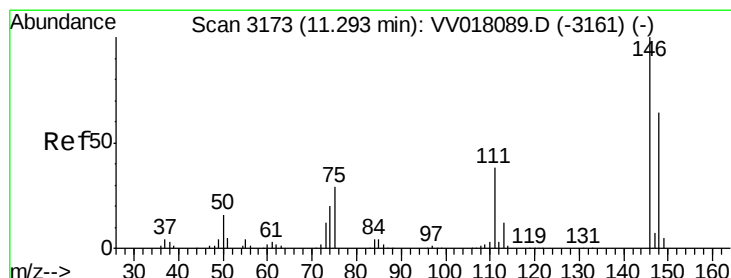
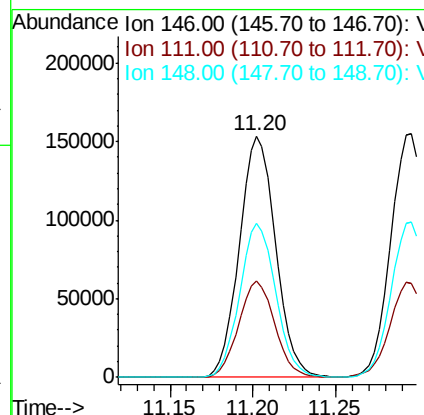
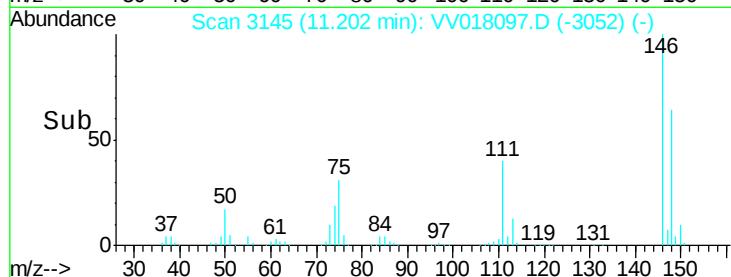
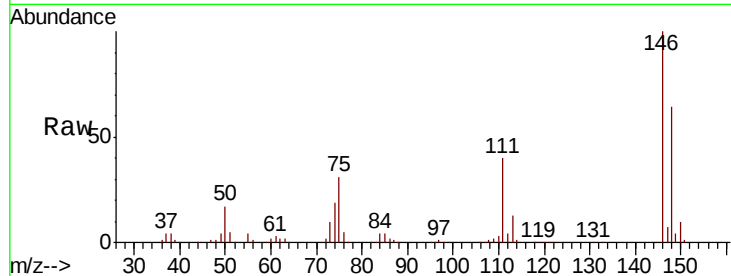




#62
 1,3-Dichlorobenzene
 Concen: 49.752 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. -0.00 min
 Lab File: VV018097.D
 Acq: 25 Aug 2020 18:23

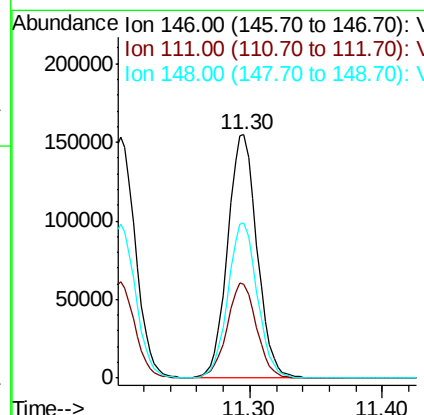
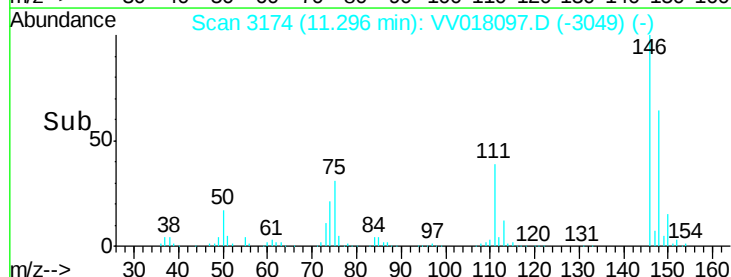
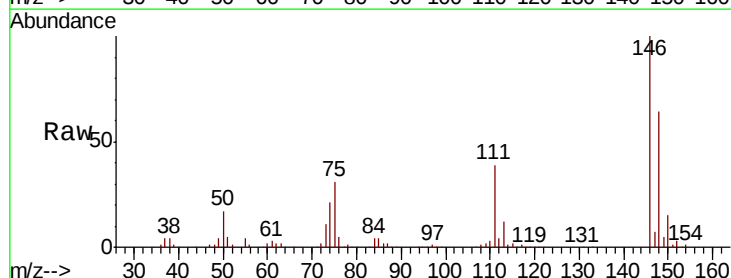
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

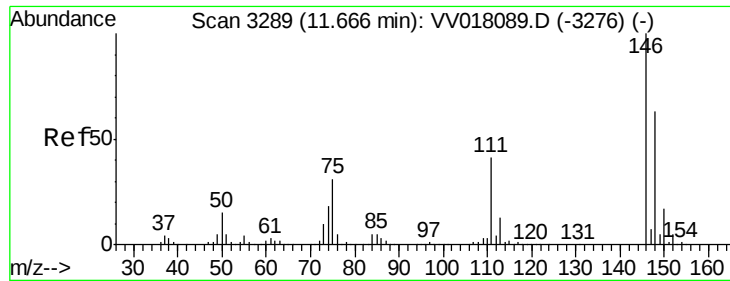
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	28.8	53.4
148	63.7	44.9	83.5



#63
 1,4-Dichlorobenzene
 Concen: 49.646 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV018097.D
 Acq: 25 Aug 2020 18:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.5	28.0	52.0
148	64.0	44.2	82.2





#65

1,2-Dichlorobenzene

Concen: 48.614 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

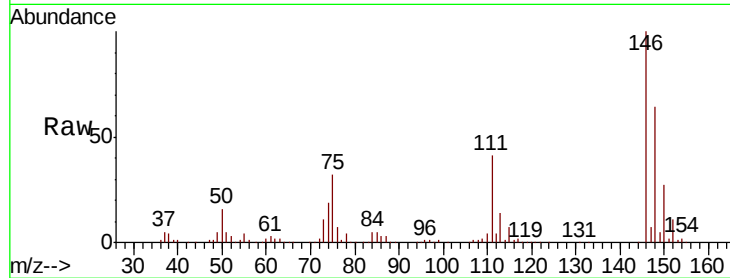
Tot Ion:146 Resp: 234591

Ion Ratio Lower Upper

146 100

111 41.1 34.2 51.4

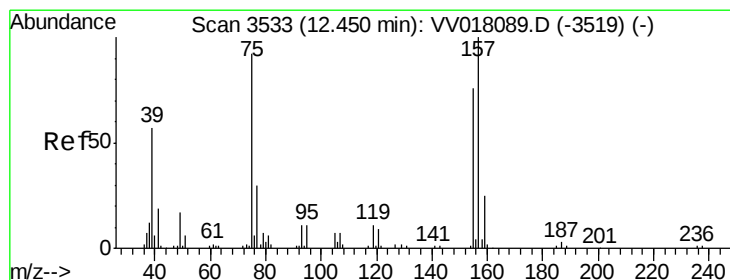
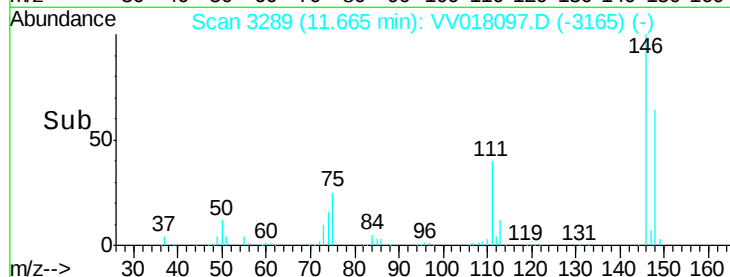
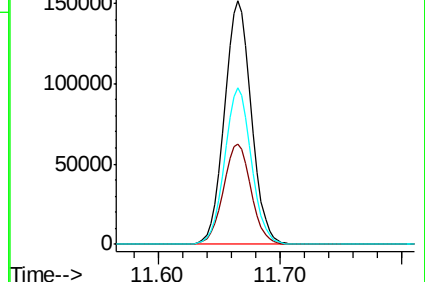
148 64.2 50.6 76.0



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: 50.706 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

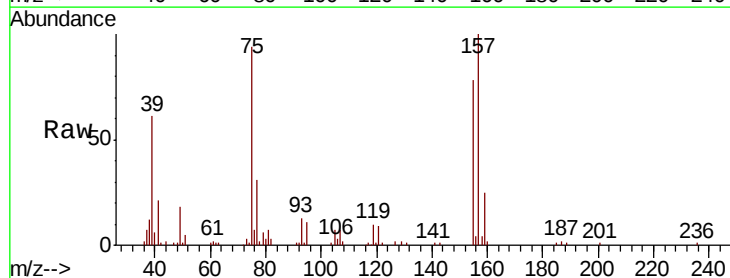
Tgt Ion: 75 Resp: 36051

Ion Ratio Lower Upper

75 100

155 83.7 67.6 101.4

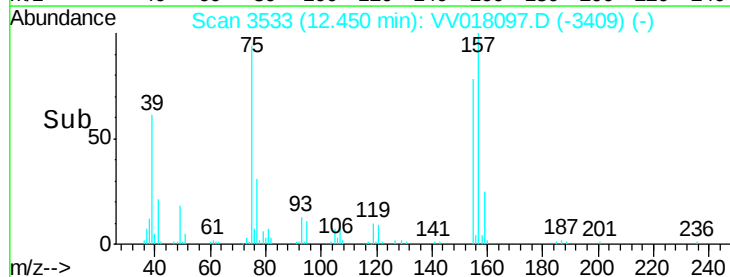
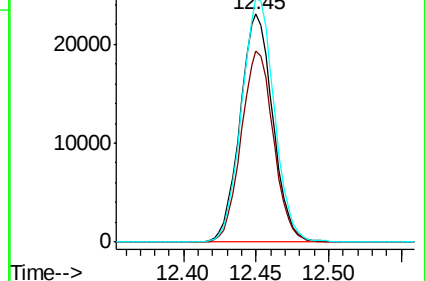
157 106.7 84.3 126.5

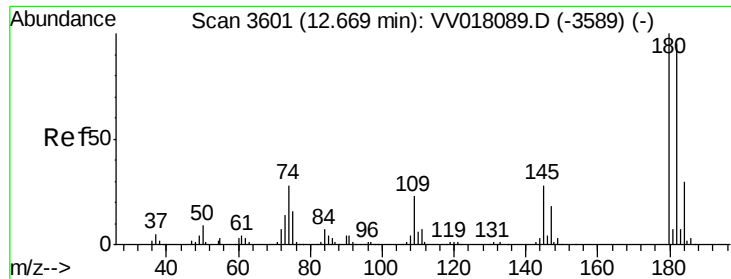


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

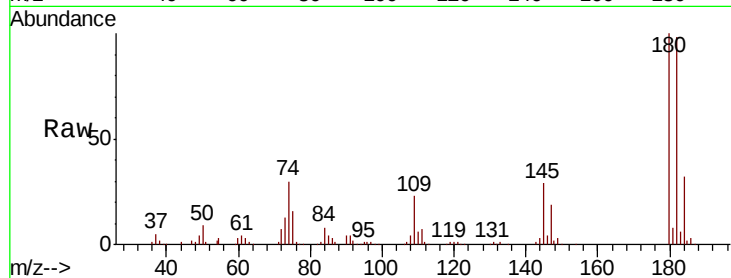




#67
 1,3,5-Trichlorobenzene
 Concen: 51.034 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VV018097.D
 Acq: 25 Aug 2020 18:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.2	115.8
184	31.0	24.6	36.8
145	29.2	23.5	35.3

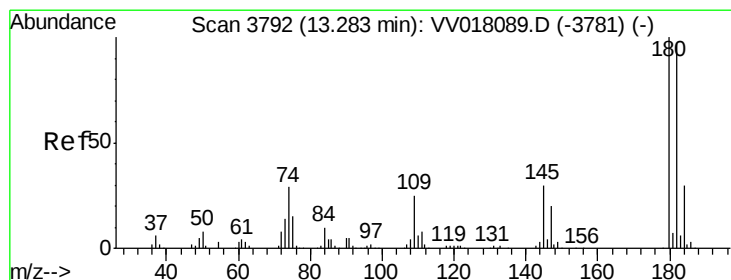
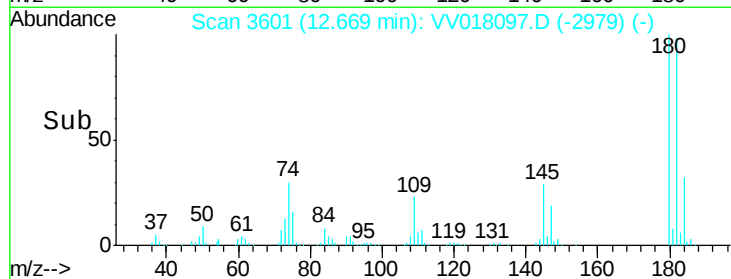
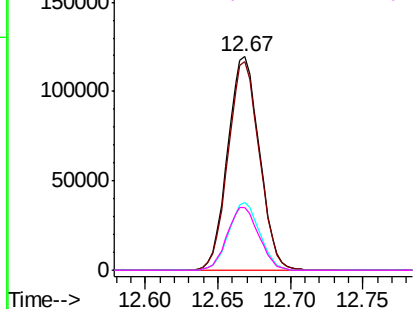


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

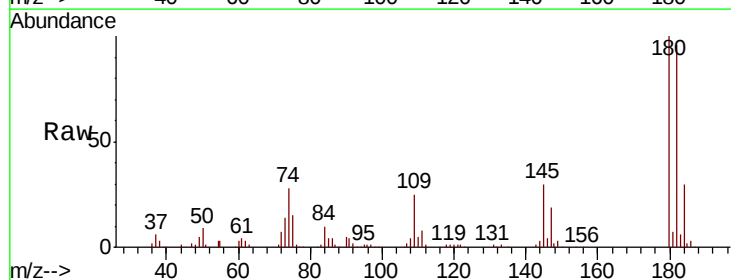
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 53.430 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV018097.D
 Acq: 25 Aug 2020 18:23

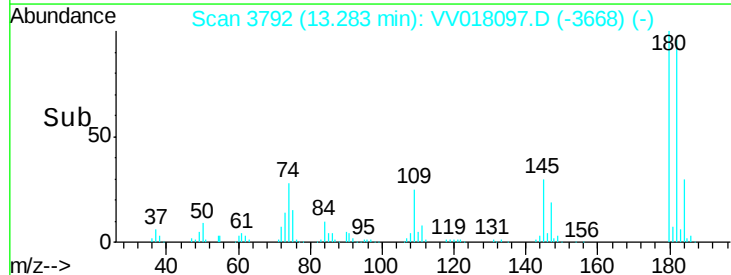
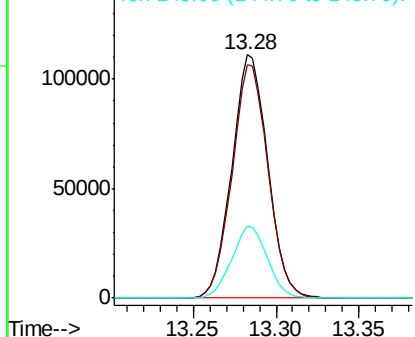
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.4	114.6
145	29.3	24.0	36.0

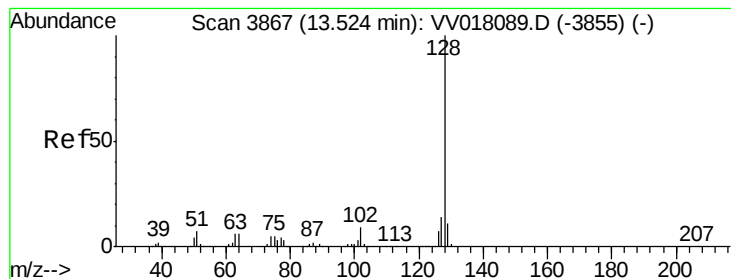


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.275 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

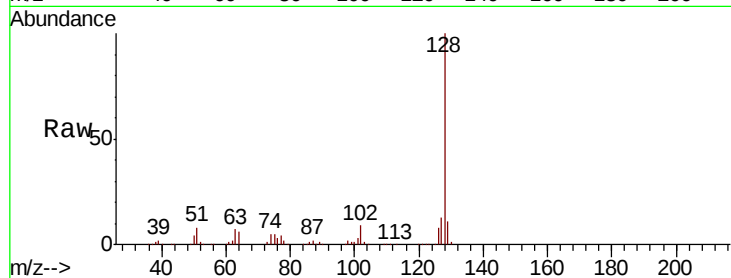
Tot Ion:128 Resp: 468418

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

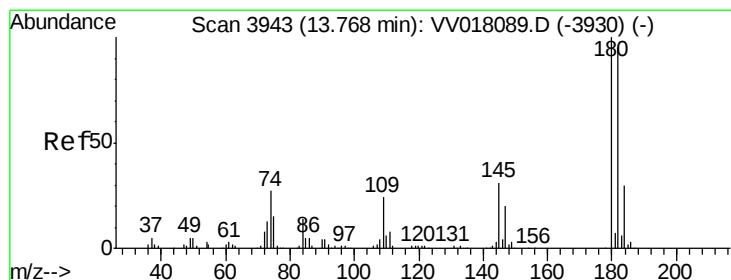
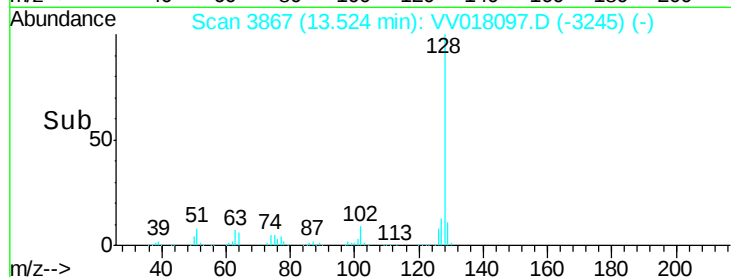
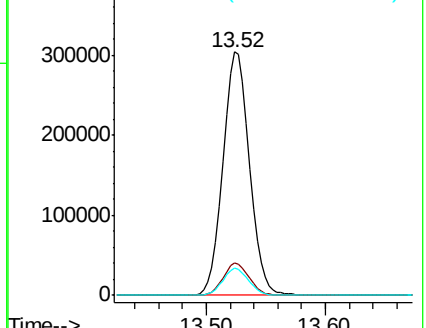
129 10.8 8.7 13.1



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: 54.559 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VV018097.D

Acq: 25 Aug 2020 18:23

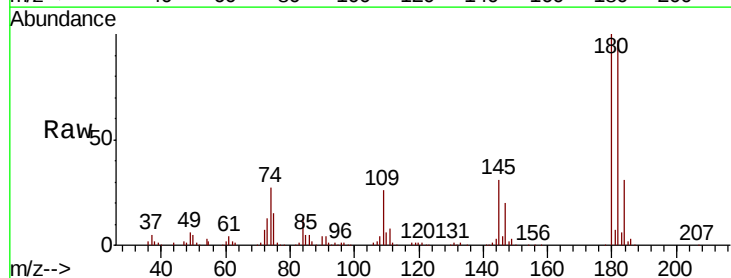
Tgt Ion:180 Resp: 173732

Ion Ratio Lower Upper

180 100

182 96.0 76.5 114.7

145 31.6 26.0 39.0



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

