

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080619\
 Data File : VV012109.D
 Acq On : 06 Aug 2019 11:10
 Operator : SY/MD
 Sample : VSTD10066
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 06 17:56:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 17:52:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	281028	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	261044	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	142567	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	151358	98.53	ug/L	0.00
7) Chloroethane-d5	1.56	69	100929	92.56	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	260750	97.91	ug/L	0.00
21) 2-Butanone-d5	3.92	46	227649	203.39	ug/L	0.00
24) Chloroform-d	4.40	84	379212	98.39	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	241070	97.36	ug/L	0.00
32) Benzene-d6	5.10	84	733115	97.58	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	210447	96.71	ug/L	0.00
41) Toluene-d8	7.36	98	710120	98.04	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	125697	101.60	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	183435	202.98	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.26	84	293784	95.79	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.67	152	319742	95.36	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	213452	107.536	ug/L	98
3) Chloromethane	1.25	50	148898	105.644	ug/L	97
5) Vinyl chloride	1.32	62	144841	106.467	ug/L	98
6) Bromomethane	1.51	94	84673	107.206	ug/L	100
8) Chloroethane	1.58	64	74811	105.000	ug/L	99
9) Trichlorofluoromethane	1.76	101	240930	108.923	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	117916	108.747	ug/L	99
12) 1,1-Dichloroethene	2.14	96	109676	107.417	ug/L	93
13) Acetone	2.19	43	137196	179.773	ug/L	100
14) Carbon disulfide	2.31	76	375131	108.722	ug/L	100
15) Methyl Acetate	2.45	43	140918	105.533	ug/L	100
16) Methylene chloride	2.53	84	162635	104.981	ug/L	97
17) trans-1,2-Dichloroethene	2.79	96	156995	108.893	ug/L	99
18) Methyl tert-butyl Ether	2.80	73	538547	108.709	ug/L	100
19) 1,1-Dichloroethane	3.23	63	283750	107.923	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	181426	106.837	ug/L	93
22) 2-Butanone	4.01	43	210998	214.531	ug/L	99
23) Bromochloromethane	4.30	128	101202	108.377	ug/L	98
25) Chloroform	4.42	83	317476	106.527	ug/L	99
27) 1,2-Dichloroethane	5.18	62	252618	109.060	ug/L	100
29) Cyclohexane	4.72	56	236766	108.467	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	303263	109.364	ug/L	99
31) Carbon tetrachloride	4.87	117	279006	108.456	ug/L	99
33) Benzene	5.14	78	644741	107.294	ug/L	100
34) Trichloroethene	5.96	95	180387	108.003	ug/L	99
35) Methylcyclohexane	6.17	83	270017	108.617	ug/L	99
37) 1,2-Dichloropropane	6.22	63	160431	109.458	ug/L	99
38) Bromodichloromethane	6.55	83	248752	107.883	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	281288	108.854	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	405259	214.832	ug/L	100

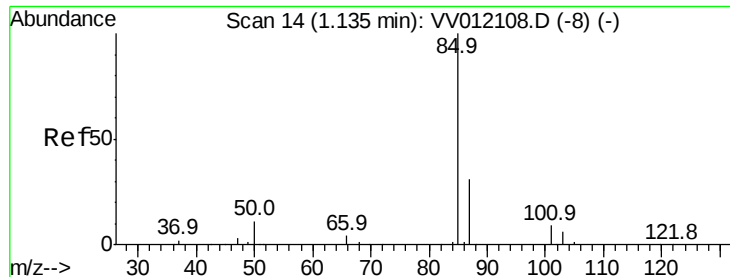
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080619\
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 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 17:52:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	721449	108.050	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	268519	110.080	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	169532	107.302	ug/L	98
46) Tetrachloroethene	8.02	164	166843	107.214	ug/L	97
48) 2-Hexanone	8.18	43	307297	216.073	ug/L	100
49) Dibromochloromethane	8.29	129	222792	108.666	ug/L	99
50) 1,2-Dibromoethane	8.40	107	188065	107.631	ug/L	99
51) Chlorobenzene	8.92	112	486825	108.142	ug/L	98
52) Ethylbenzene	9.05	91	824251	110.019	ug/L	99
53) m,p-Xylene	9.18	106	318839	110.320	ug/L	94
54) o-Xylene	9.59	106	312068	108.814	ug/L	98
55) Styrene	9.60	104	539110	111.589	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.28	83	263318	108.377	ug/L	99
59) Bromoform	9.77	173	183434	109.689	ug/L	99
60) Isopropylbenzene	9.97	105	846183	108.422	ug/L	100
61) 1,2,3-Trichloropropane	10.32	75	204447	105.607	ug/L	99
62) 1,3,5-Trimethylbenzene	10.58	105	732270	109.505	ug/L	99
63) 1,2,4-Trimethylbenzene	10.95	105	729731	108.607	ug/L	100
64) 1,3-Dichlorobenzene	11.23	146	423591	107.569	ug/L	100
65) 1,4-Dichlorobenzene	11.32	146	426987	107.273	ug/L	99
67) 1,2-Dichlorobenzene	11.69	146	434465	108.134	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.47	75	65139	102.096	ug/L	98
69) 1,3,5-Trichlorobenzene	12.69	180	352179	110.325	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	320330	115.734	ug/L	100
71) Naphthalene	13.55	128	854521	121.813	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	320690	115.135	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 107.536 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

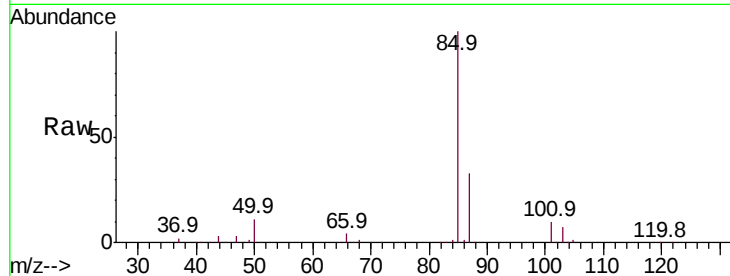
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 213452

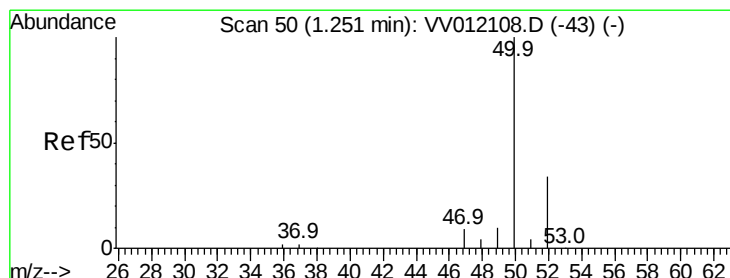
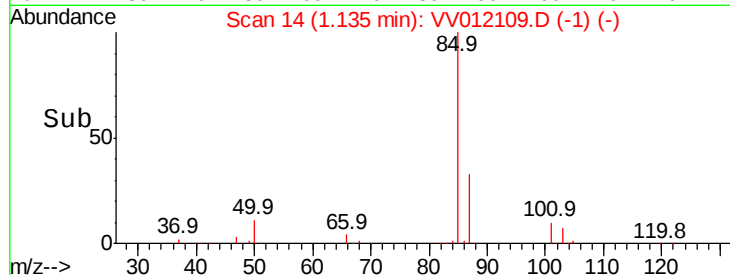
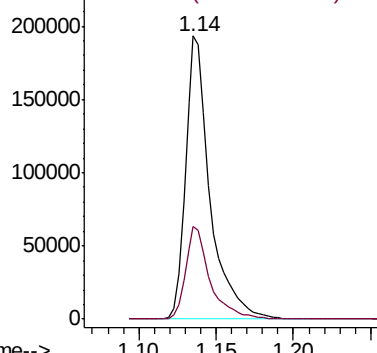
Ion Ratio Lower Upper

85 100

87 32.7 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0
Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 105.644 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012109.D

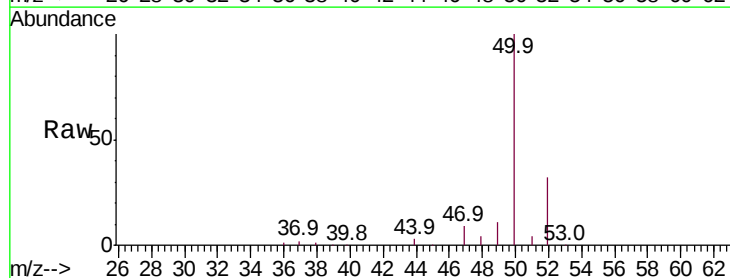
Acq: 06 Aug 2019 11:10

Tgt Ion: 50 Resp: 148898

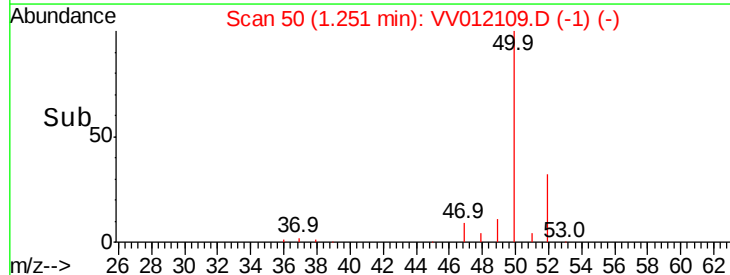
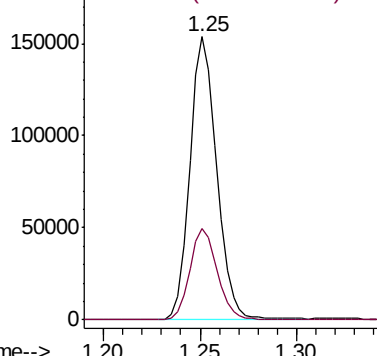
Ion Ratio Lower Upper

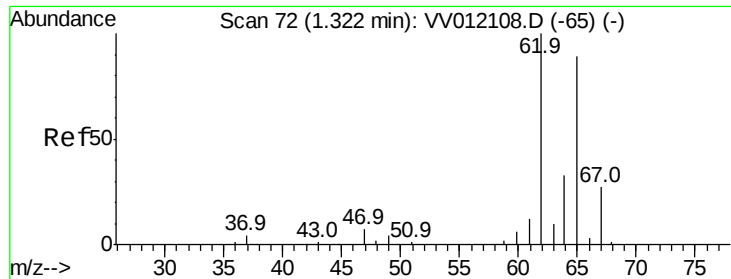
50 100

52 32.3 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV0
Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 106.467 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

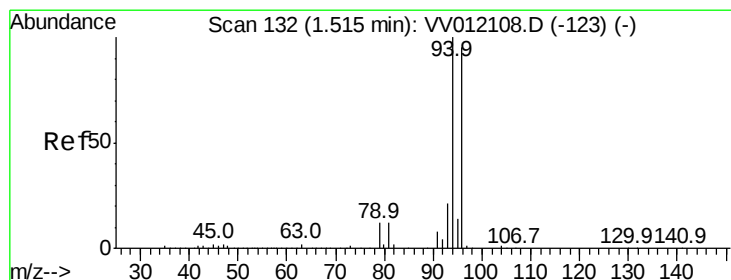
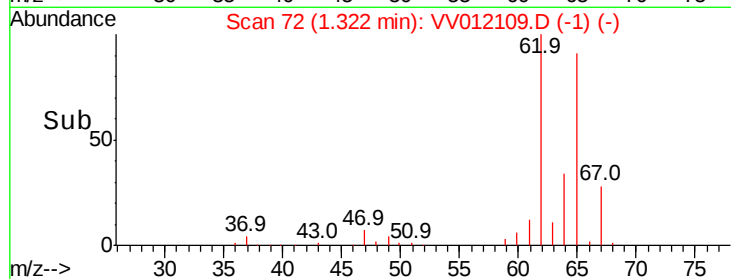
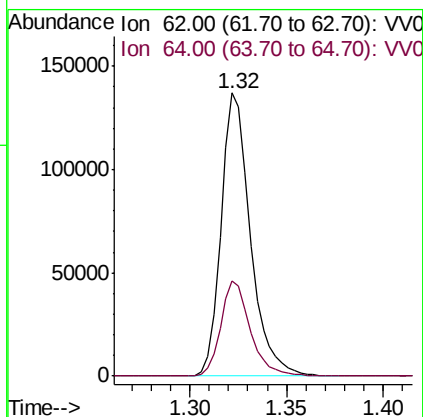
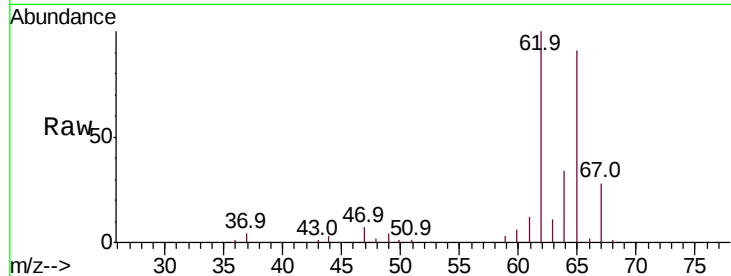
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 144841

Ion Ratio Lower Upper

62 100

64 33.8 23.0 42.8



#6

Bromomethane

Concen: 107.206 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV012109.D

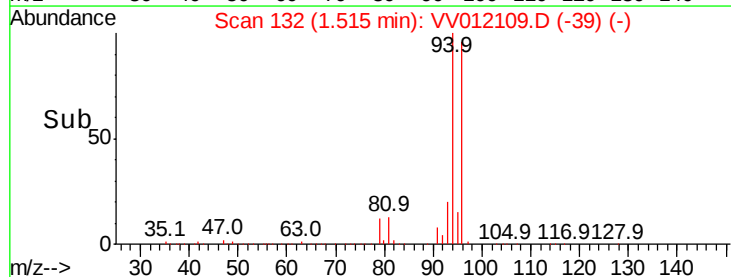
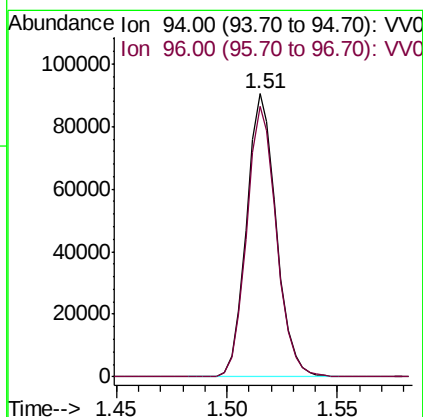
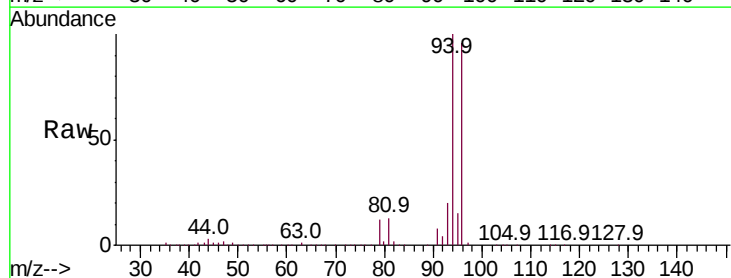
Acq: 06 Aug 2019 11:10

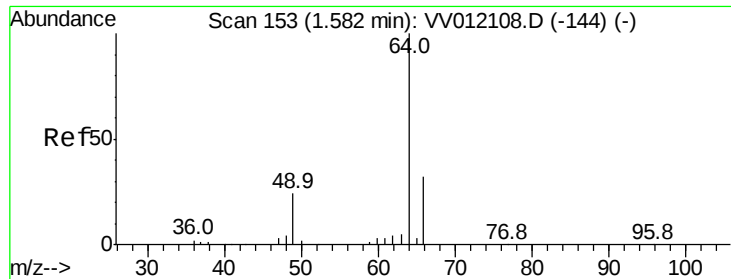
Tgt Ion: 94 Resp: 84673

Ion Ratio Lower Upper

94 100

96 95.7 66.8 124.0





#8

Chloroethane

Concen: 105.000 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

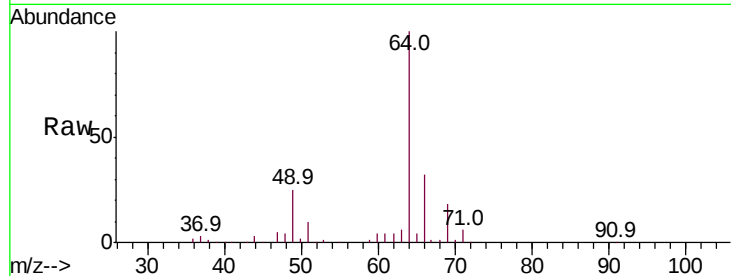
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 74811

Ion Ratio Lower Upper

64 100

66 31.8 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV012108.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV012108.D (-144) (-)

1.58

60000

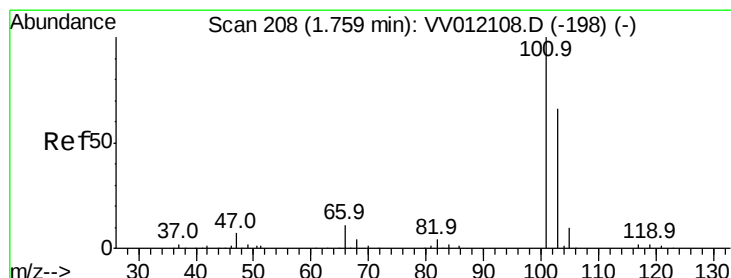
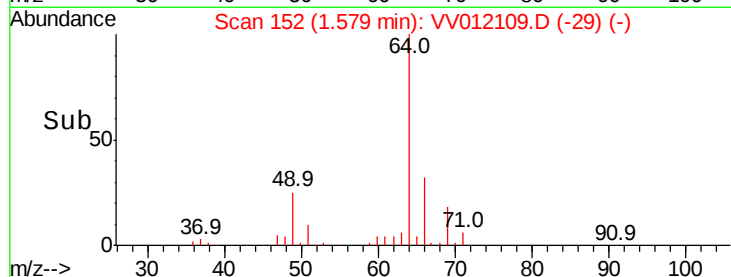
40000

20000

0

Time-->

1.55 1.60 1.65



#9

Trichlorofluoromethane

Concen: 108.923 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV012109.D

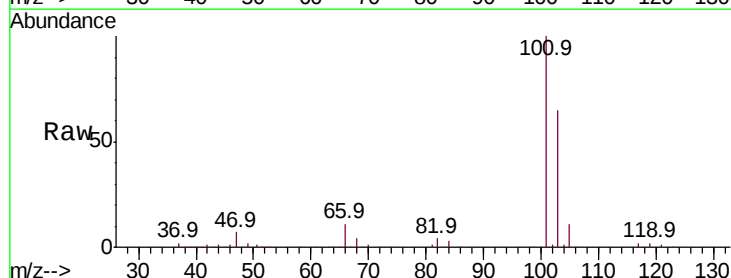
Acq: 06 Aug 2019 11:10

Tgt Ion:101 Resp: 240930

Ion Ratio Lower Upper

101 100

103 64.8 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV012108.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV012108.D (-198) (-)

1.76

200000

150000

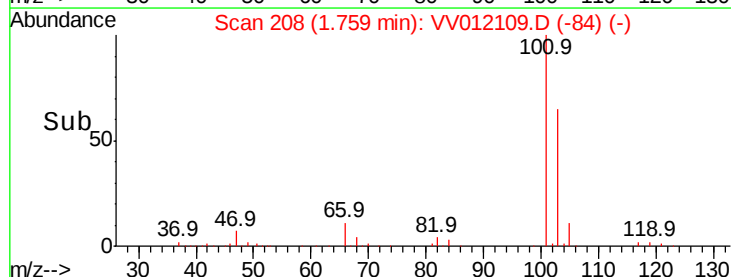
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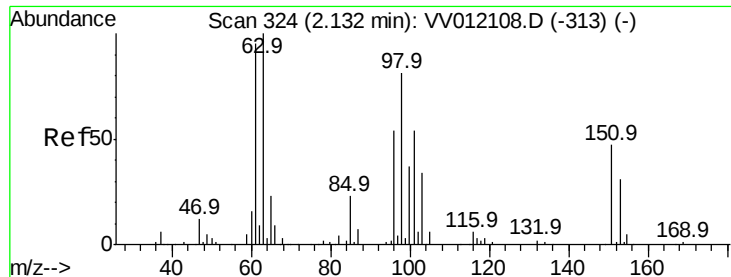
50000

0

Time-->

1.70 1.75 1.80





#10

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

Concen: 108.747 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :
MSVOA_V
ClientSampled :

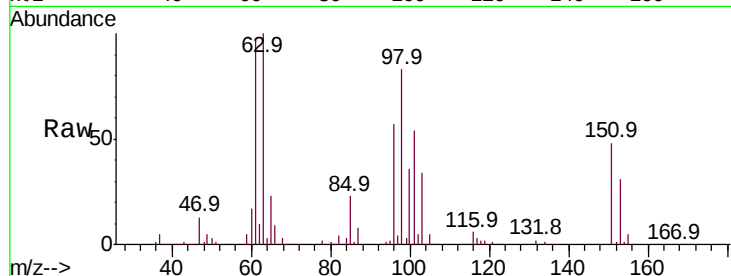
Tot Ion:101 Resp: 117916

Ion Ratio Lower Upper

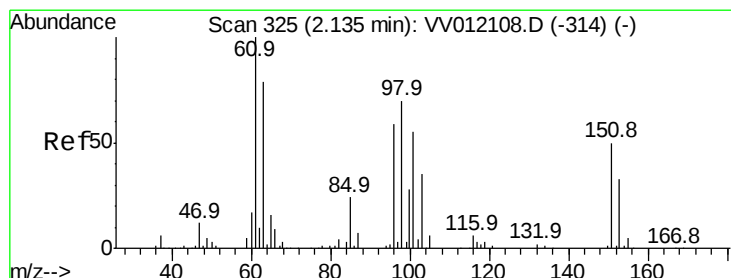
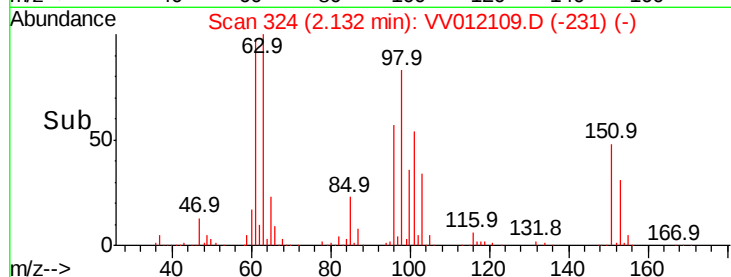
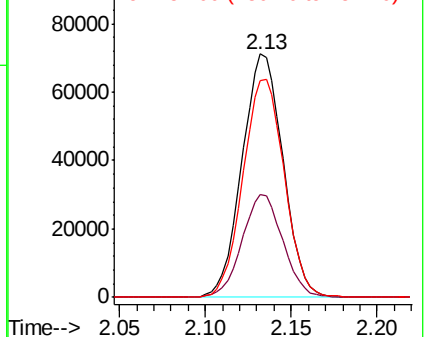
101 100

85 42.0 34.4 51.6

151 90.4 72.2 108.2



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VV0
Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 107.417 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

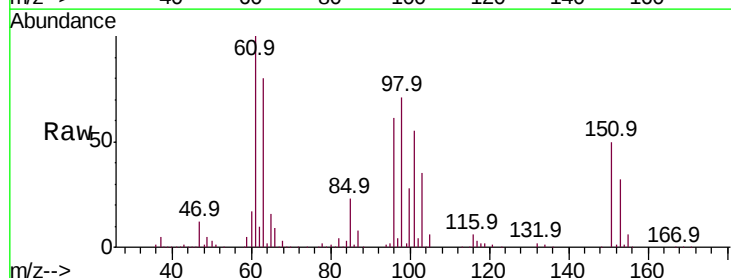
Tgt Ion: 96 Resp: 109676

Ion Ratio Lower Upper

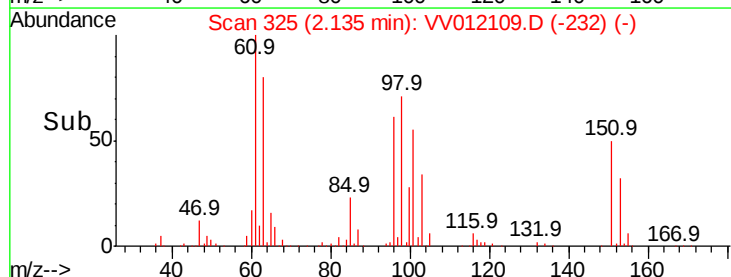
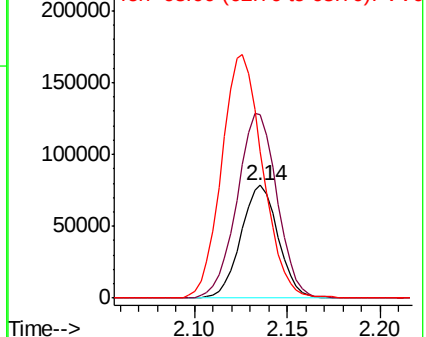
96 100

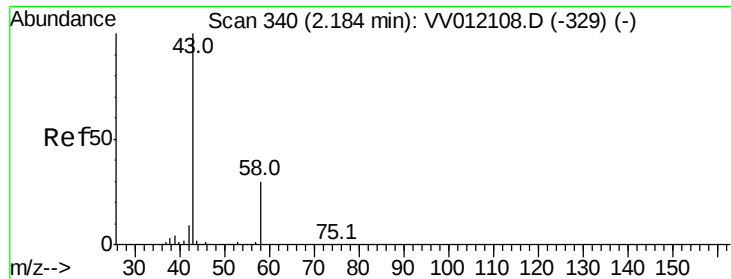
61 163.0 120.0 223.0

63 130.2 98.3 182.7



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 179.773 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

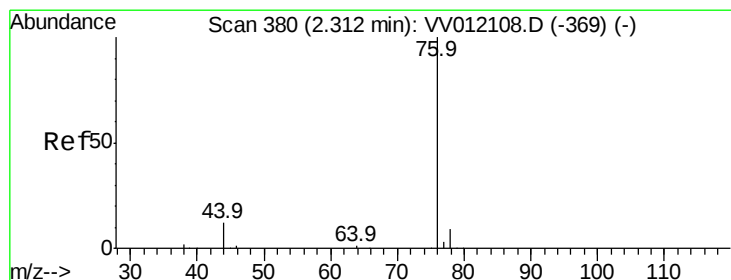
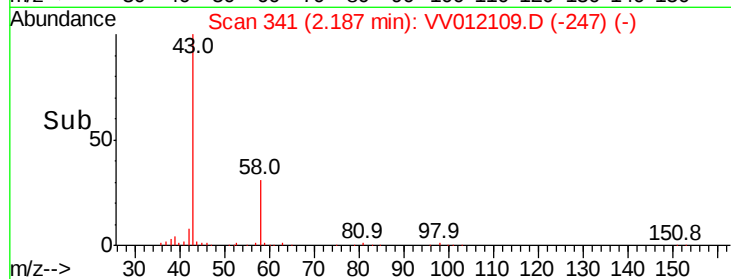
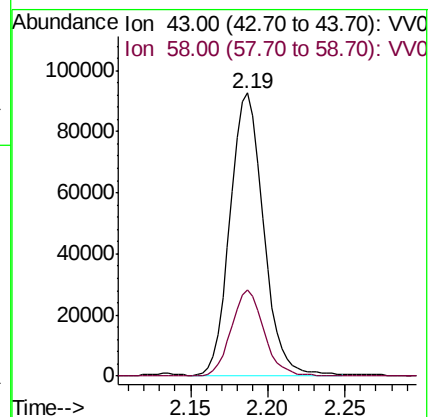
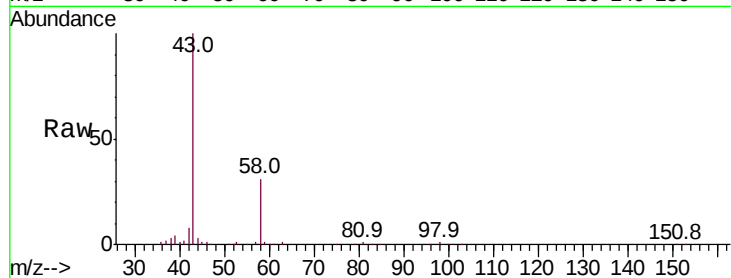
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 137196

Ion Ratio Lower Upper

43 100

58 29.8 0.0 59.2



#14

Carbon disulfide

Concen: 108.722 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV012109.D

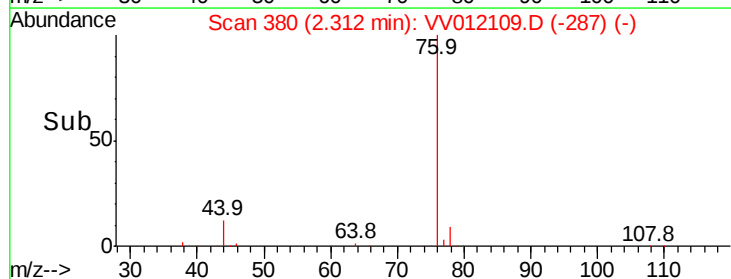
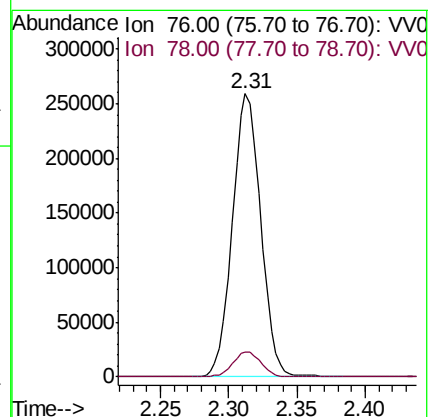
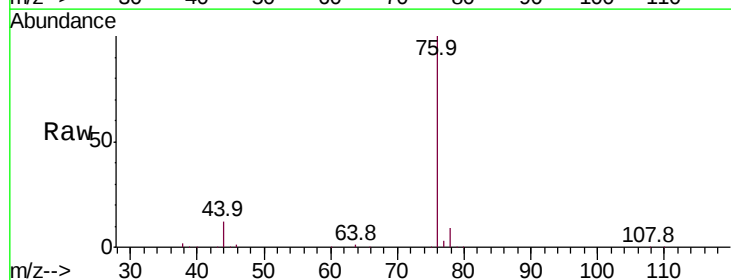
Acq: 06 Aug 2019 11:10

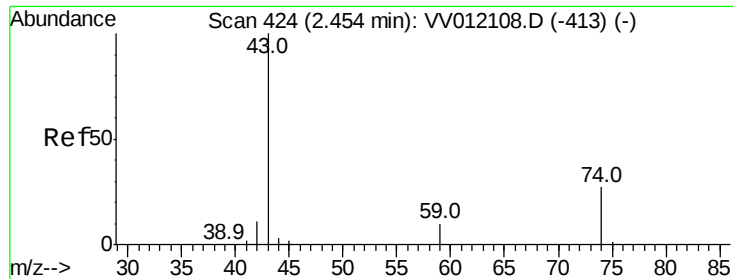
Tgt Ion: 76 Resp: 375131

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7

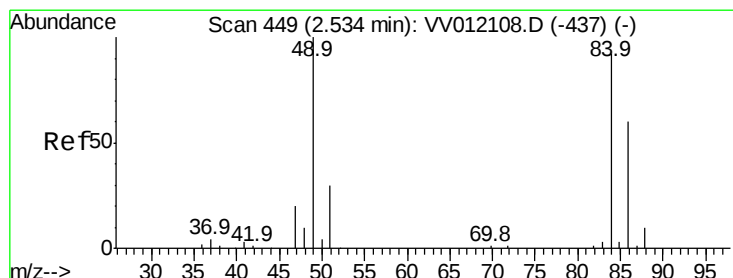
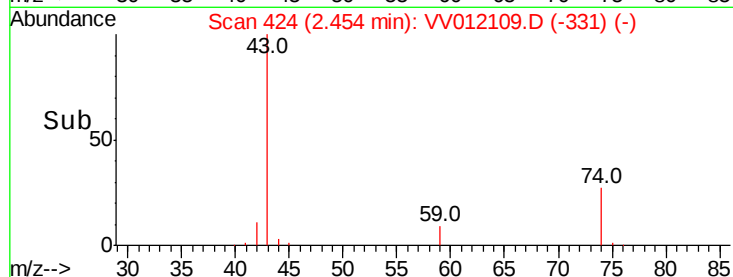
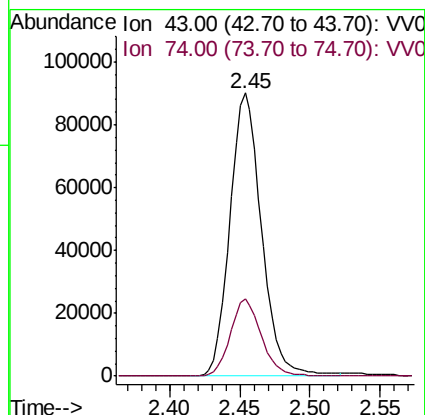
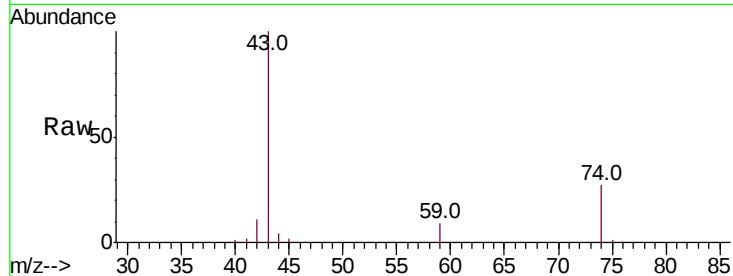




#15
Methvl Acetate
Concen: 105.533 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

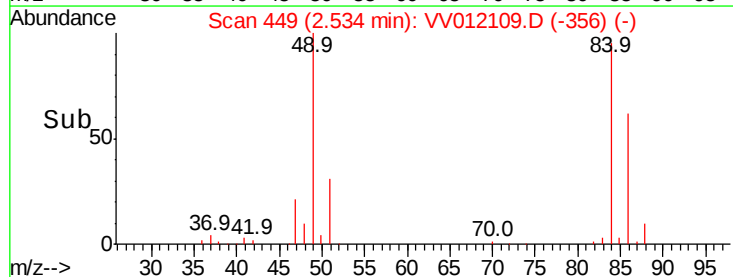
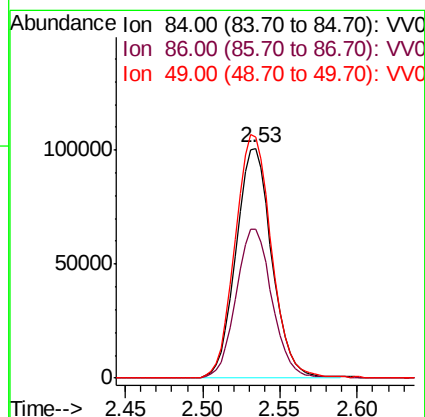
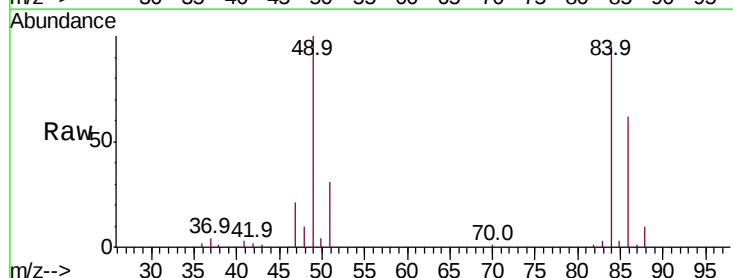
Instrument :
MSVOA_V
ClientSampleId :

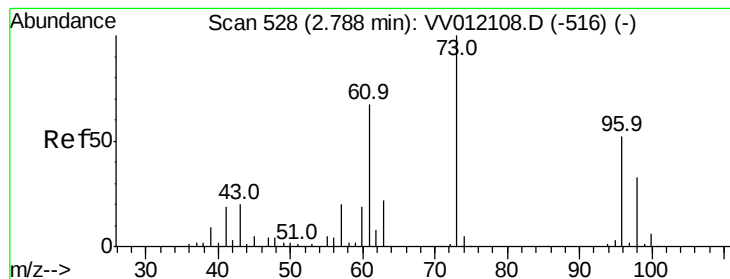
Tot Ion: 43 Resp: 140918
Ion Ratio Lower Upper
43 100
74 27.0 21.8 32.6



#16
Methylene chloride
Concen: 104.981 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

Tgt Ion: 84 Resp: 162635
Ion Ratio Lower Upper
84 100
86 64.8 45.7 84.9
49 104.9 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 108.893 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :
MSVOA_V
ClientSampled :

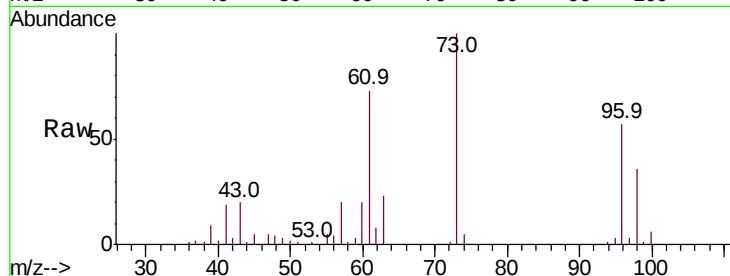
Tot Ion: 96 Resp: 156995

Ion Ratio Lower Upper

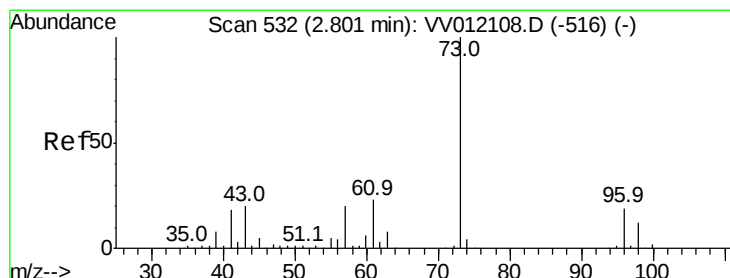
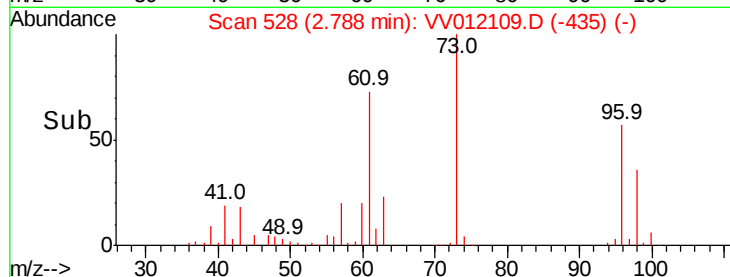
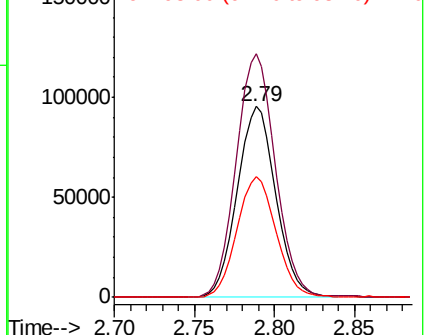
96 100

61 127.7 90.6 168.3

98 63.3 44.2 82.2



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: 108.709 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

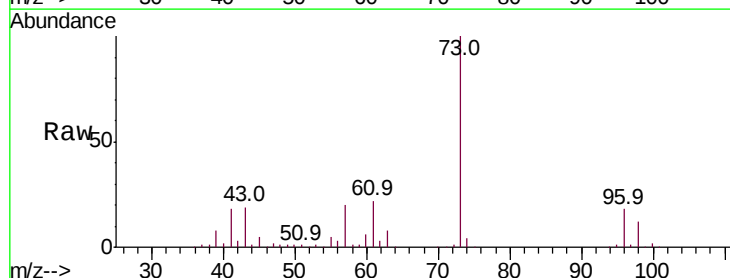
Tgt Ion: 73 Resp: 538547

Ion Ratio Lower Upper

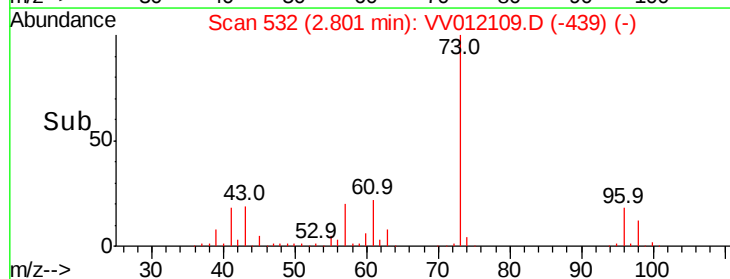
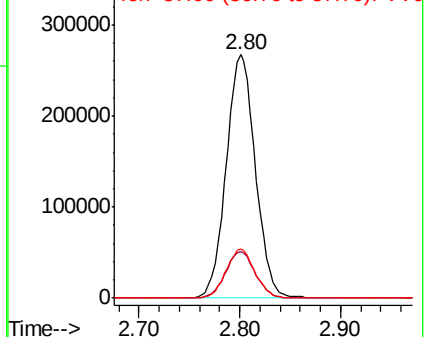
73 100

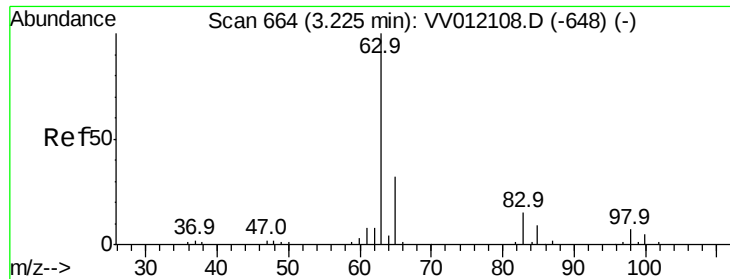
43 19.6 15.6 23.4

57 19.9 16.0 24.0



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: 107.923 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :
MSVOA_V
ClientSampleId :

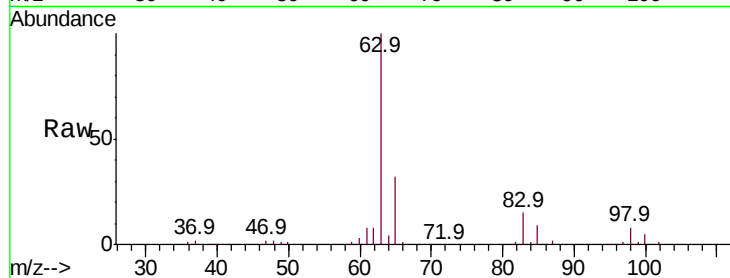
Tot Ion: 63 Resp: 283750

Ion Ratio Lower Upper

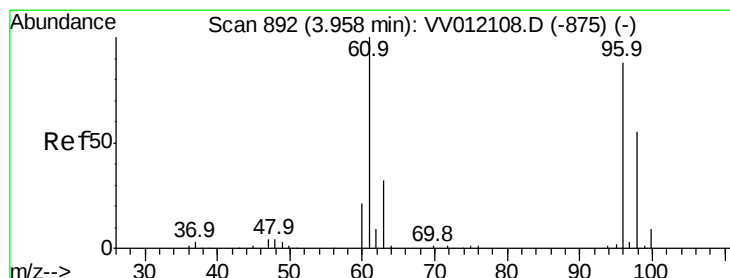
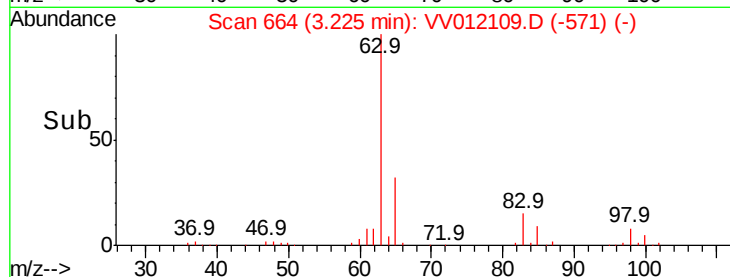
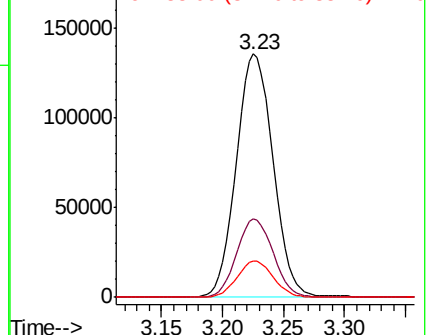
63 100

65 32.3 22.3 41.3

83 15.1 10.3 19.1



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: 106.837 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

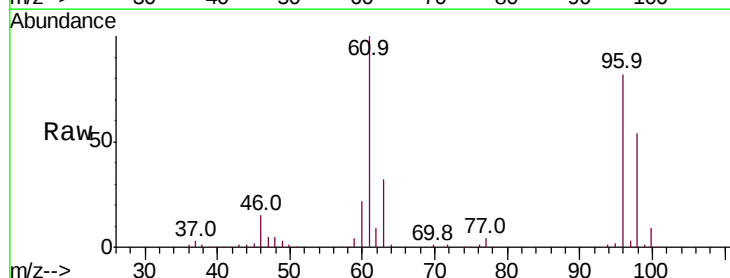
Tgt Ion: 96 Resp: 181426

Ion Ratio Lower Upper

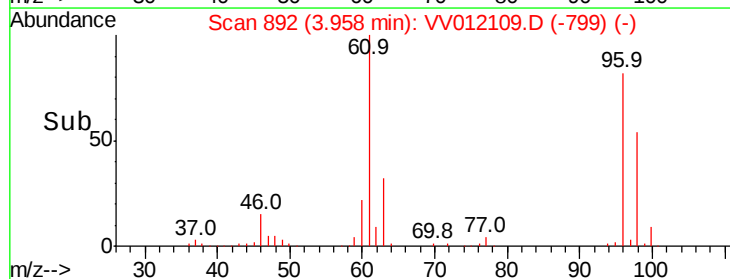
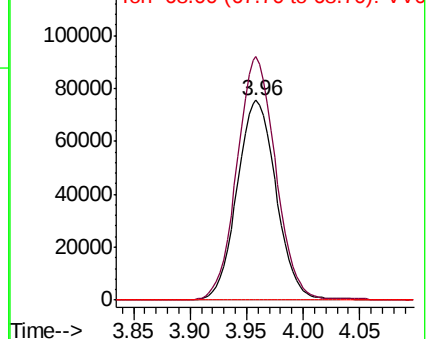
96 100

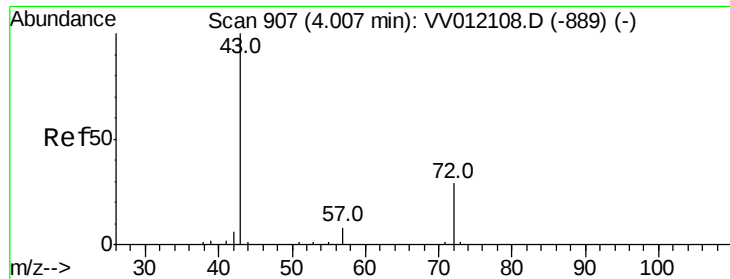
61 121.9 80.0 148.6

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: 214.531 ug/L

RT: 4.01 min Scan# 907

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

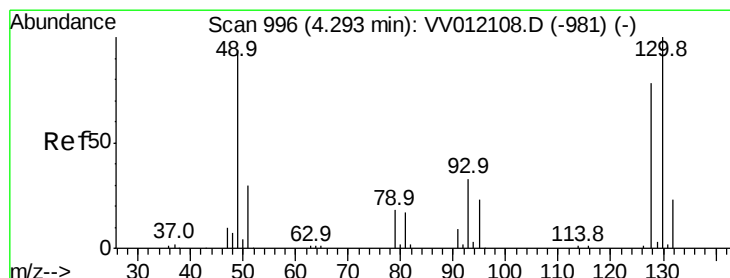
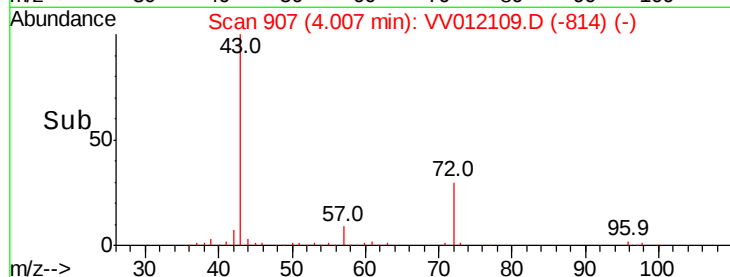
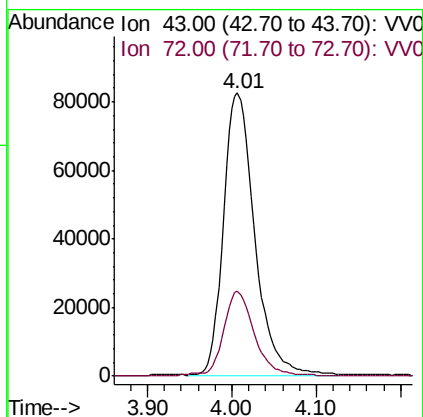
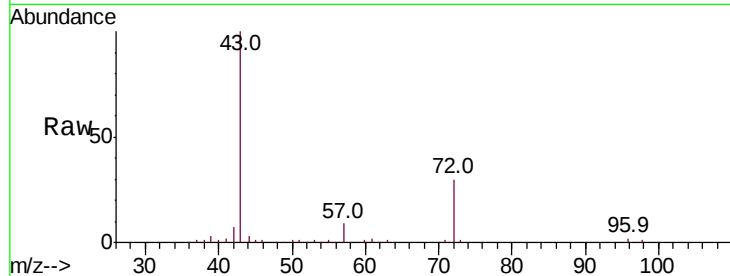
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 210998

Ion Ratio Lower Upper

43 100

72 29.7 15.0 45.0



#23

Bromochloromethane

Concen: 108.377 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Tgt Ion: 128 Resp: 101202

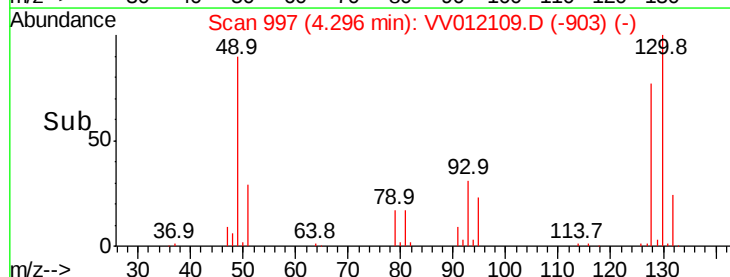
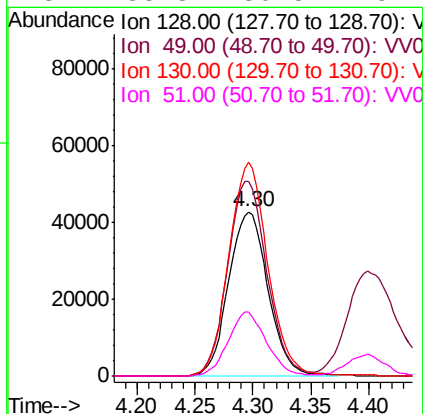
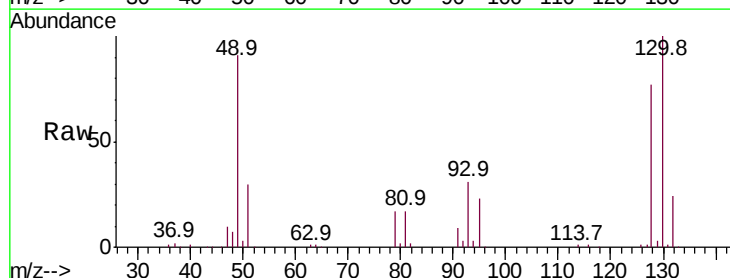
Ion Ratio Lower Upper

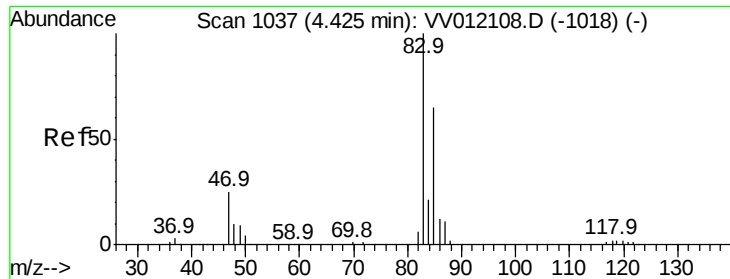
128 100

49 118.5 84.6 157.2

130 129.8 89.9 167.0

51 38.8 30.5 45.7

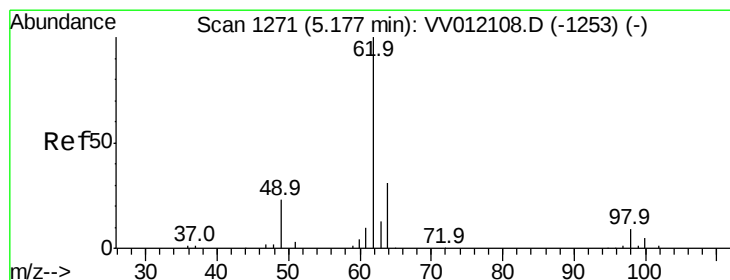
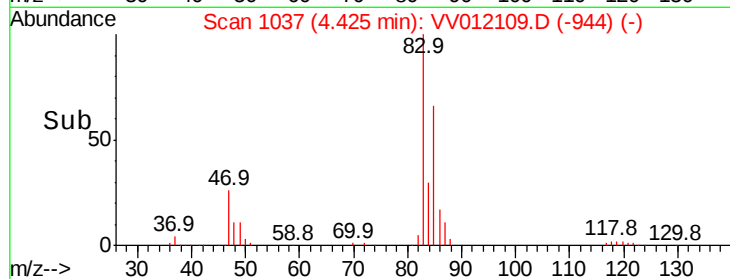
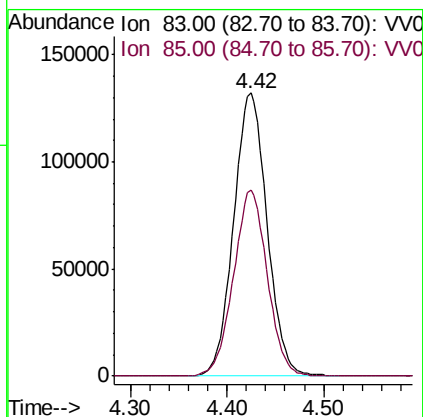
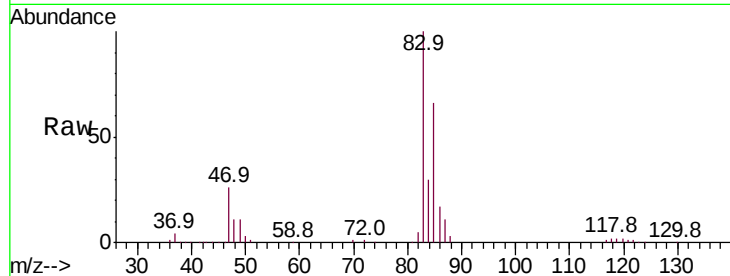




#25
Chloroform
Concen: 106.527 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

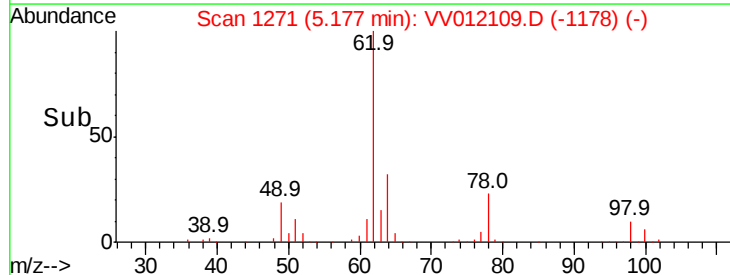
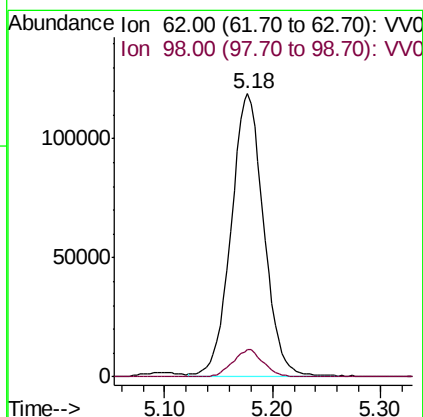
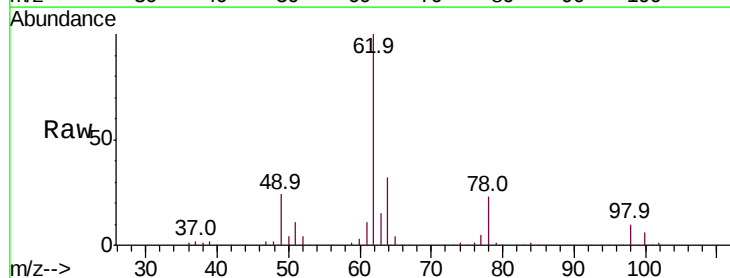
Instrument :
MSVOA_V
ClientSampled :

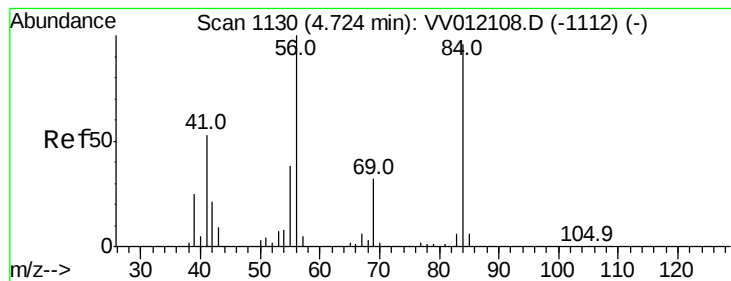
Tot Ion: 83 Resp: 317476
Ion Ratio Lower Upper
83 100
85 65.9 45.8 85.2



#27
1,2-Dichloroethane
Concen: 109.060 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

Tgt Ion: 62 Resp: 252618
Ion Ratio Lower Upper
62 100
98 9.6 7.5 11.3





#29

Cyclohexane

Concen: 108.467 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :
MSVOA_V
ClientSampleId :

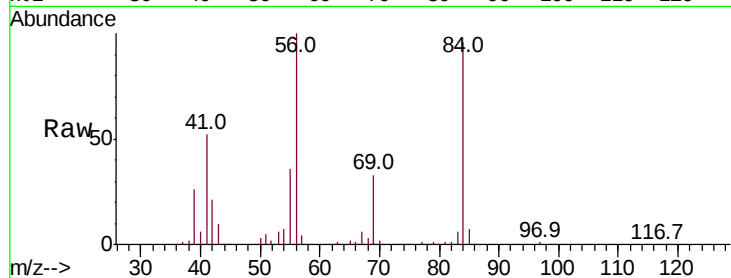
Tot Ion: 56 Resp: 236766

Ion Ratio Lower Upper

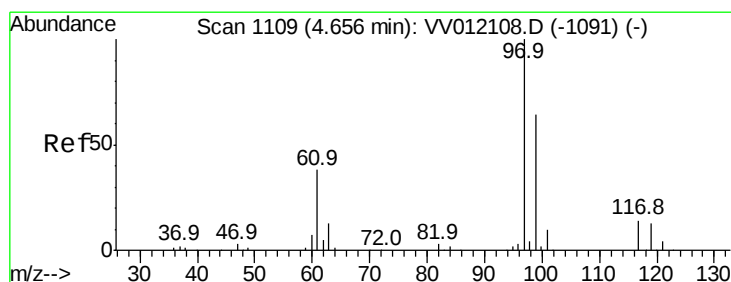
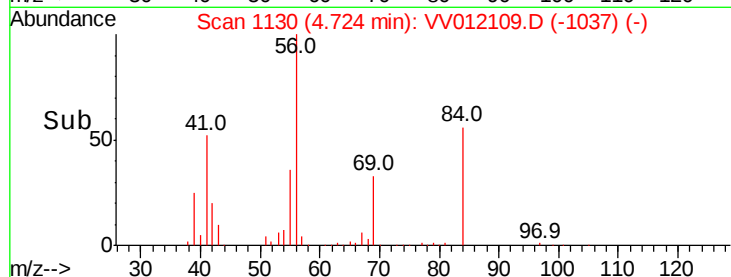
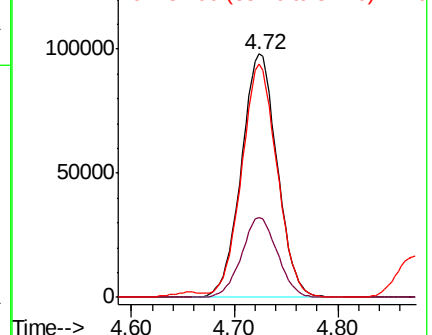
56 100

69 32.7 25.8 38.8

84 94.5 76.0 114.0



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 109.364 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

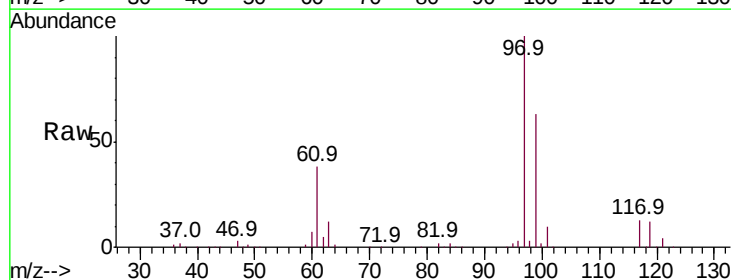
Tgt Ion: 97 Resp: 303263

Ion Ratio Lower Upper

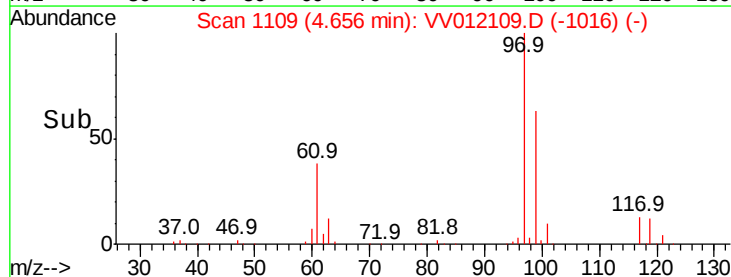
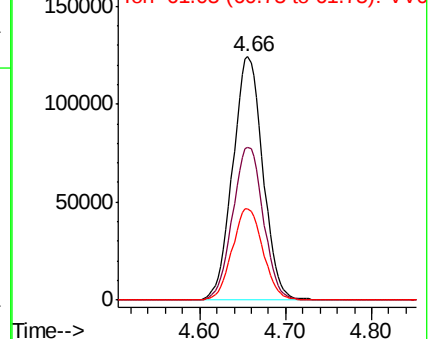
97 100

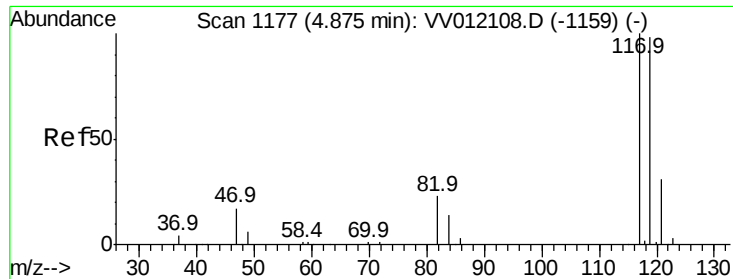
99 64.0 51.1 76.7

61 38.2 31.3 46.9



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0

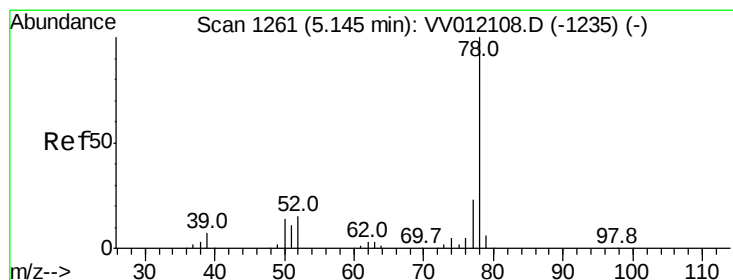
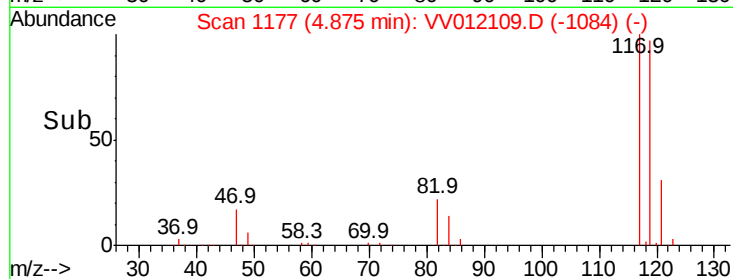
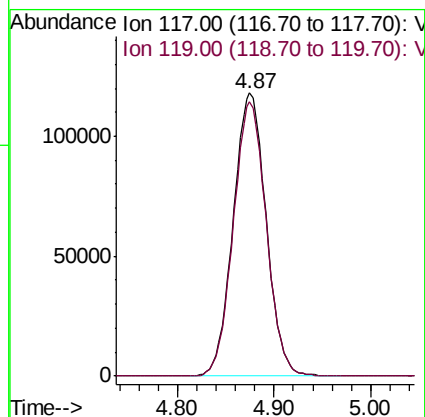
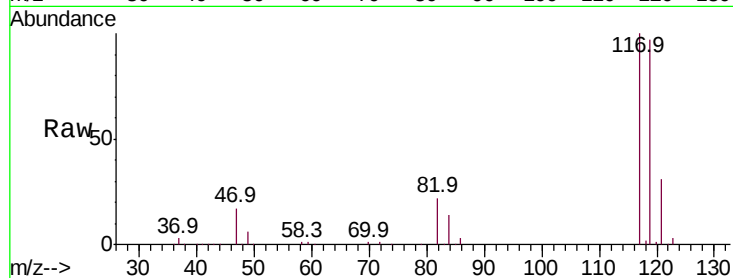




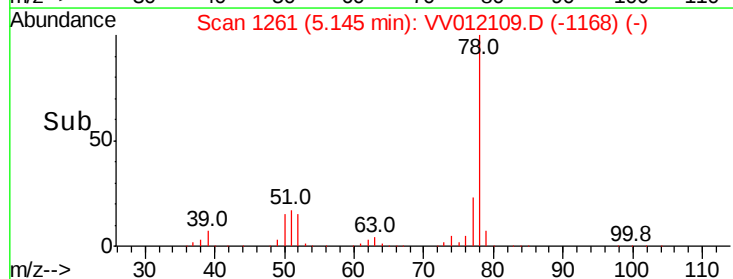
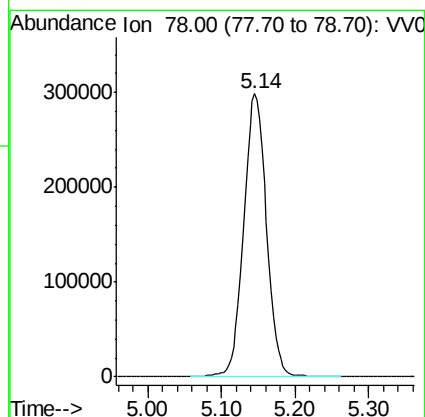
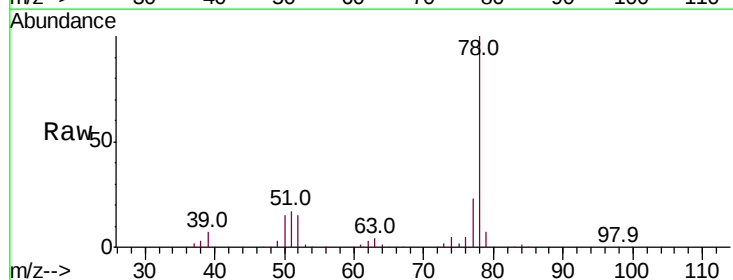
#31
Carbon tetrachloride
Concen: 108.456 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

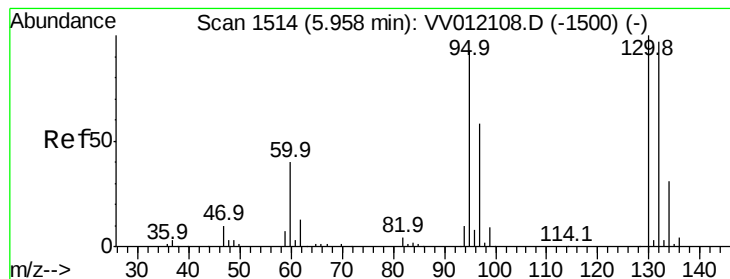
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 279006
Ion Ratio Lower Upper
117 100
119 96.8 78.2 117.4



#33
Benzene
Concen: 107.294 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10
Tgt Ion: 78 Resp: 644741





#34

Trichloroethene

Concen: 108.003 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 95 Resp: 180387

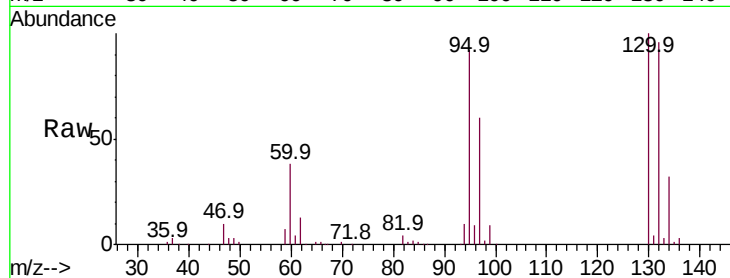
Ion Ratio Lower Upper

95 100

97 64.9 43.4 80.6

132 104.6 73.1 135.8

130 108.6 75.3 139.8

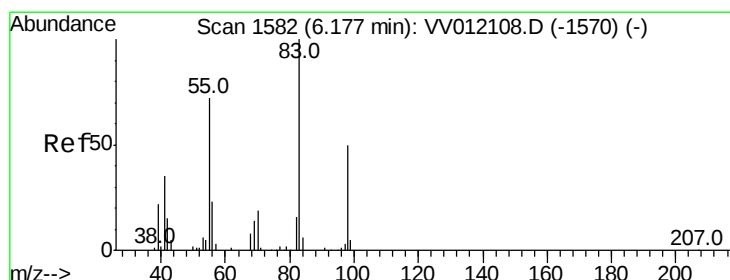
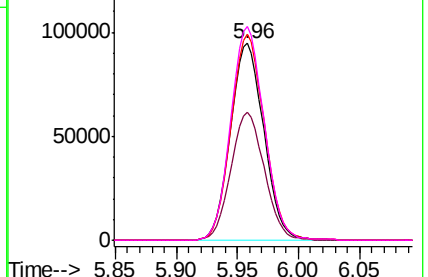
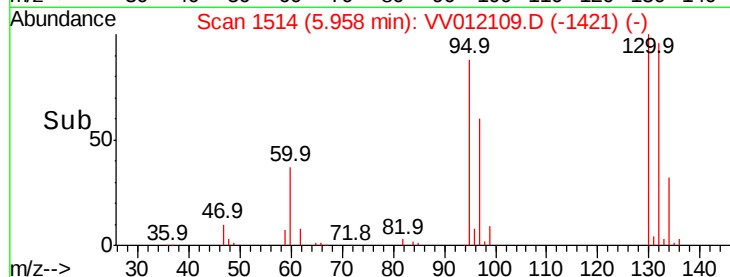


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 108.617 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

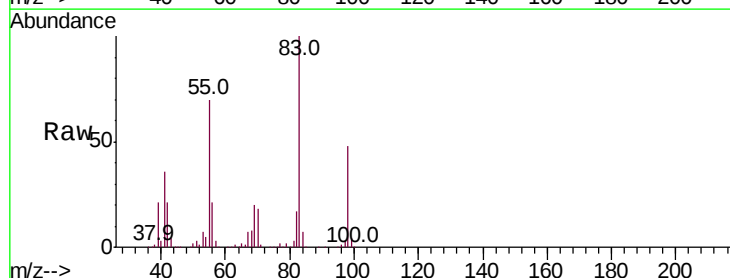
Tgt Ion: 83 Resp: 270017

Ion Ratio Lower Upper

83 100

55 70.5 55.5 83.3

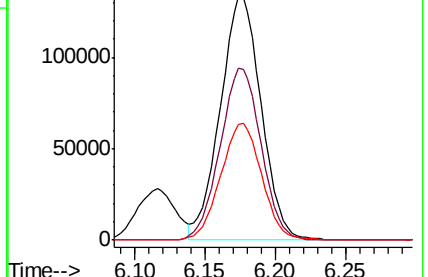
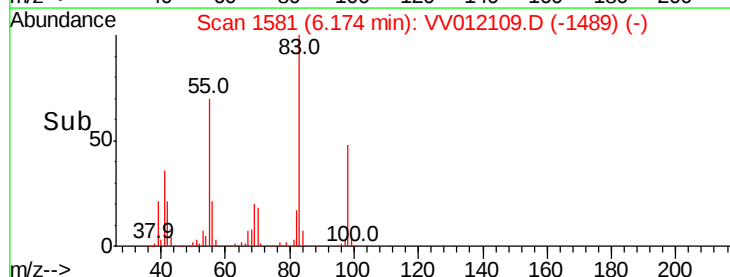
98 48.2 38.5 57.7

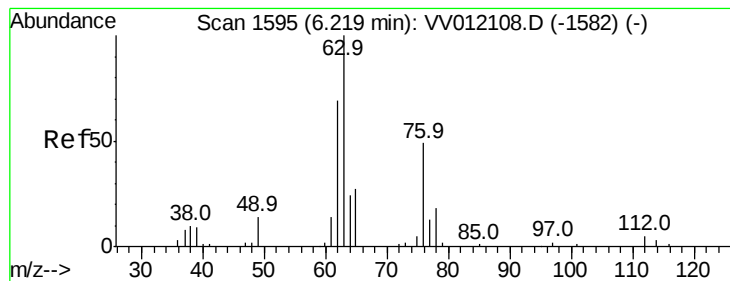


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 109.458 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :

MSVOA_V

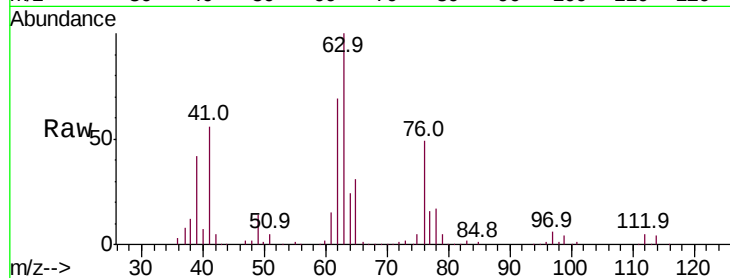
ClientSampled :

Tot Ion: 63 Resp: 160431

Ion Ratio Lower Upper

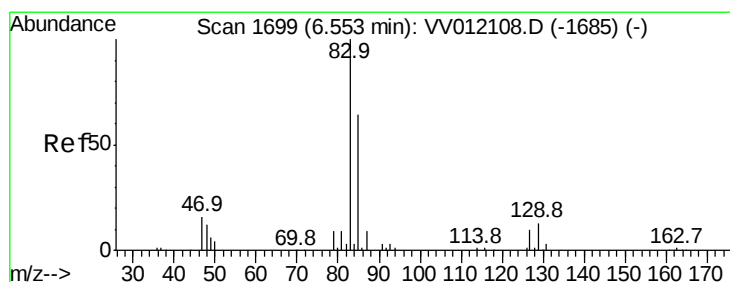
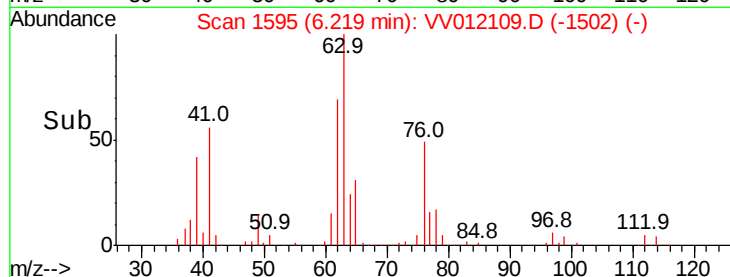
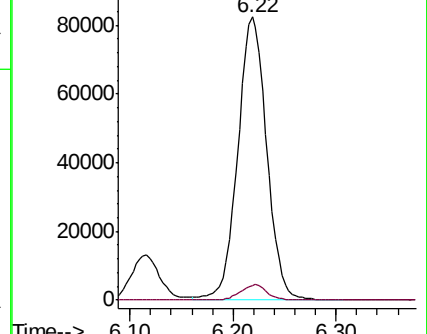
63 100

112 5.0 4.2 6.2



Abundance Ion 63.00 (62.70 to 63.70): VV012109.D (-1502) (-)

Ion 112.00 (111.70 to 112.70): VV012109.D (-1502) (-)



#38

Bromodichloromethane

Concen: 107.883 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

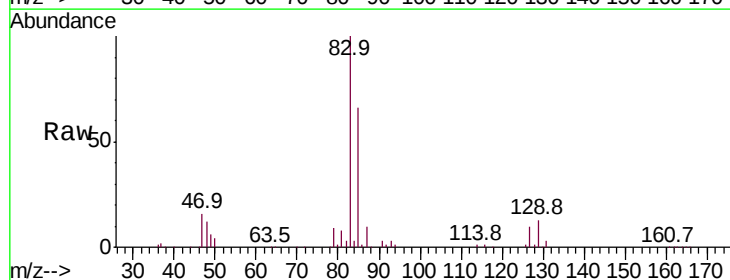
Tgt Ion: 83 Resp: 248752

Ion Ratio Lower Upper

83 100

85 66.2 45.0 83.6

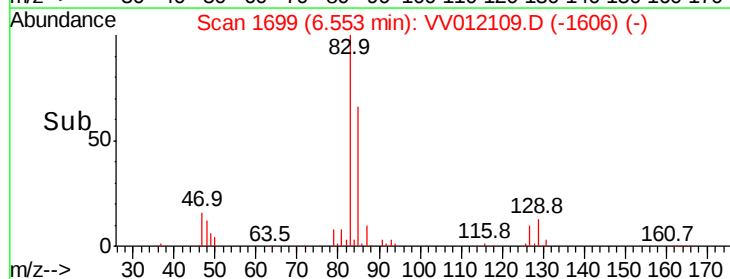
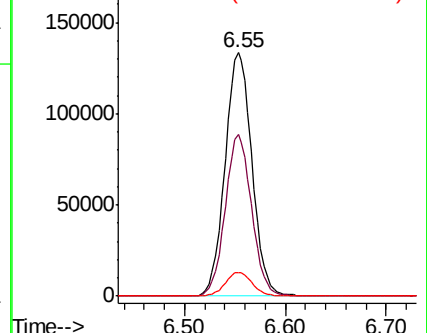
127 9.8 7.9 11.9

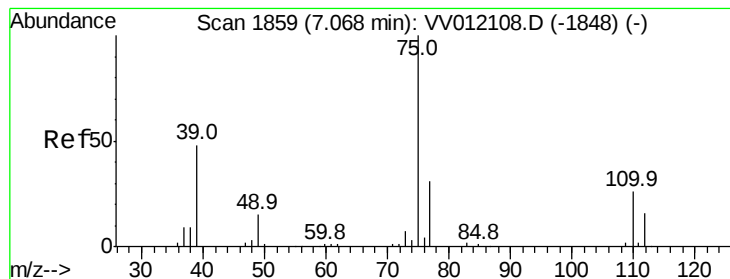


Abundance Ion 83.00 (82.70 to 83.70): VV012109.D (-1606) (-)

Ion 85.00 (84.70 to 85.70): VV012109.D (-1606) (-)

Ion 127.00 (126.70 to 127.70): VV012109.D (-1606) (-)



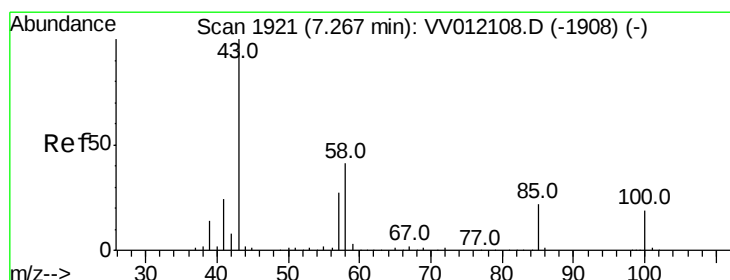
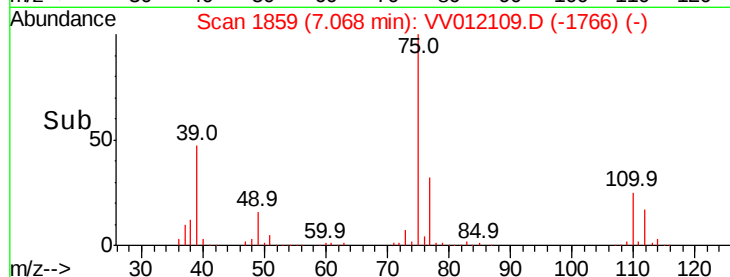
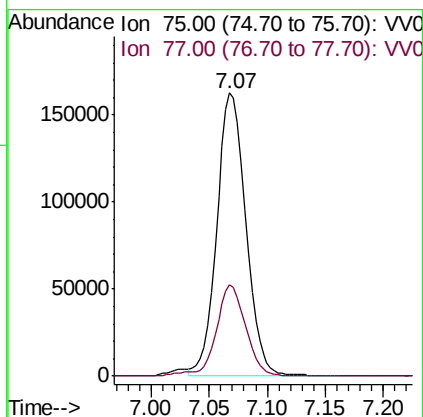
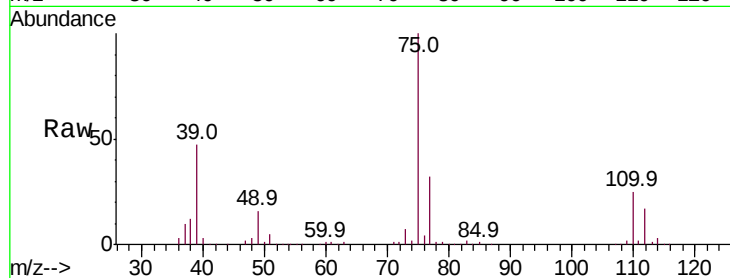


#39

cis-1,3-Dichloropropene
Concen: 108.854 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

Instrument :
MSVOA_V
ClientSampled :

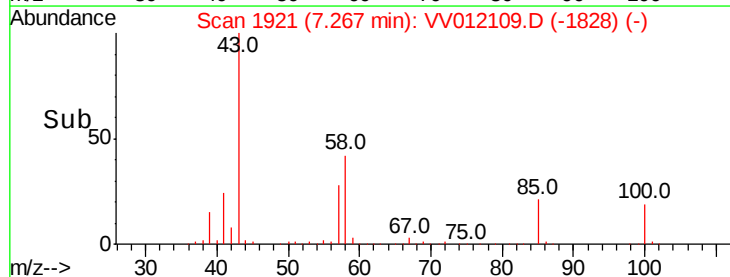
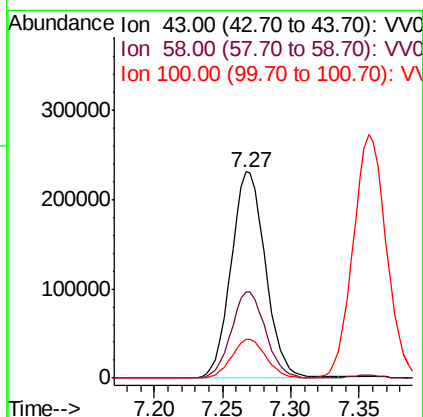
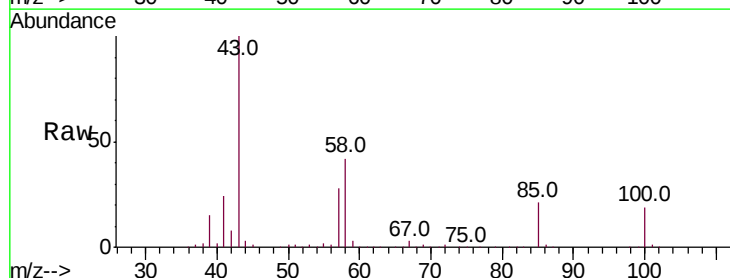
Tot Ion: 75 Resp: 281288
Ion Ratio Lower Upper
75 100
77 32.4 22.3 41.5

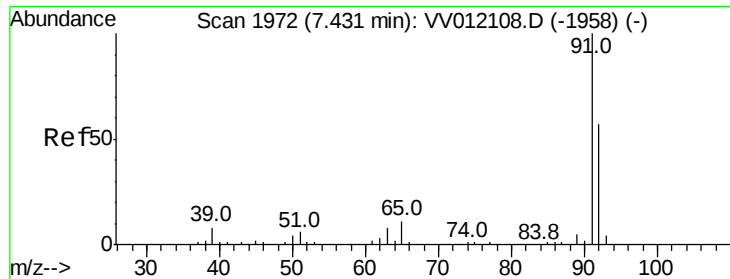


#40

4-Methyl-2-pentanone
Concen: 214.832 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

Tgt Ion: 43 Resp: 405259
Ion Ratio Lower Upper
43 100
58 41.8 33.4 50.2
100 19.0 15.0 22.4





#42

Toluene

Concen: 108.050 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

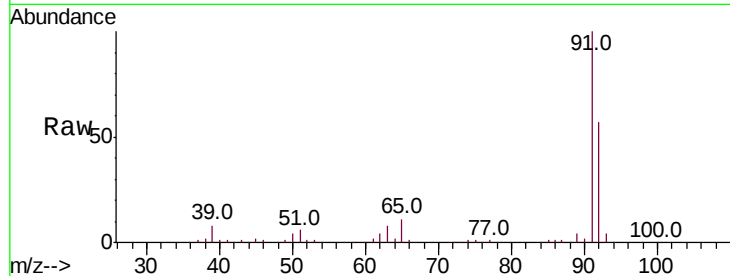
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 721449

Ion Ratio Lower Upper

91 100

92 57.4 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV012108.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV012109.D (-1879) (-)

7.43

400000

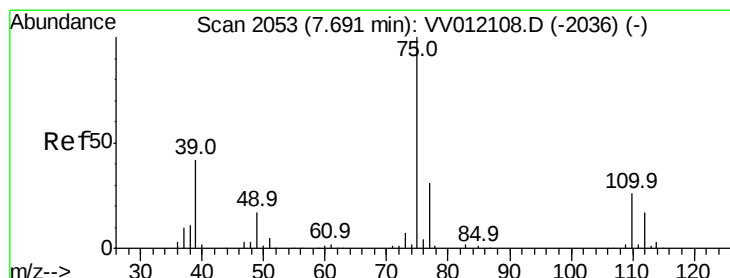
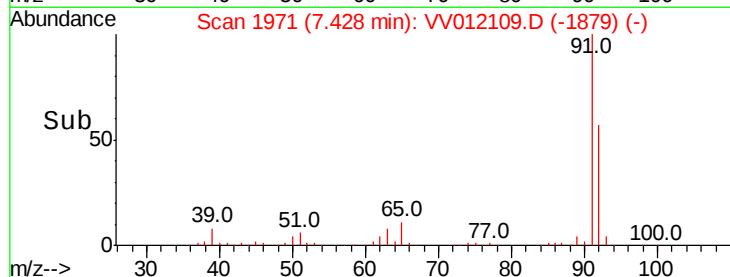
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 110.080 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012109.D

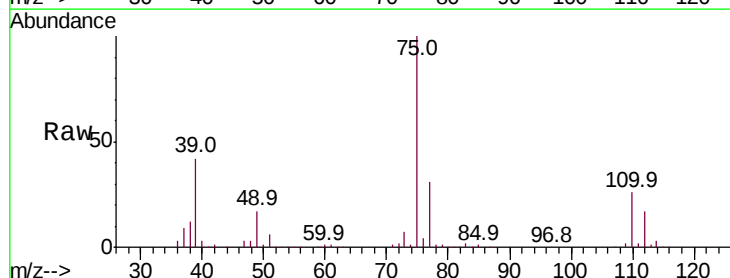
Acq: 06 Aug 2019 11:10

Tgt Ion: 75 Resp: 268519

Ion Ratio Lower Upper

75 100

77 30.9 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV012108.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV012109.D (-1960) (-)

7.69

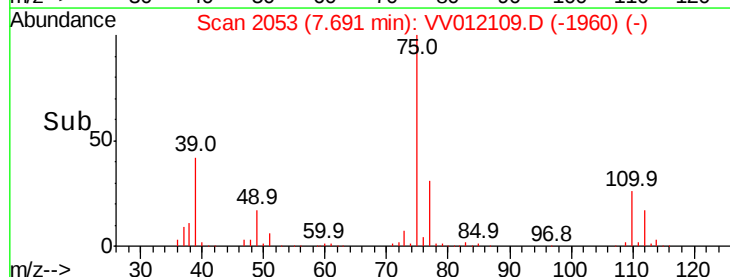
150000

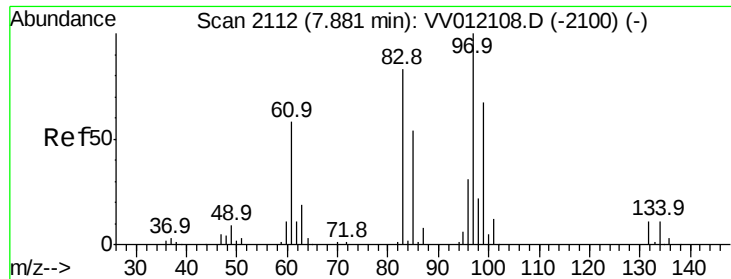
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 107.302 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 169532

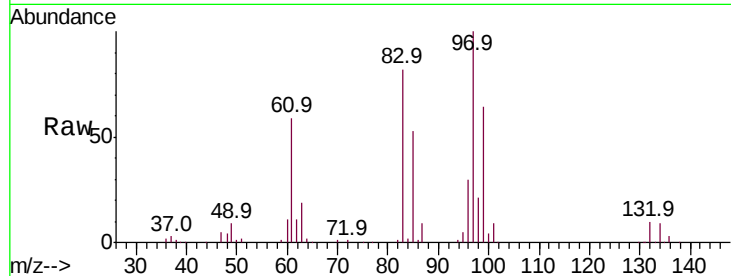
Ion Ratio Lower Upper

97 100

99 64.1 47.2 87.6

83 81.8 58.0 107.6

85 52.8 38.0 70.6

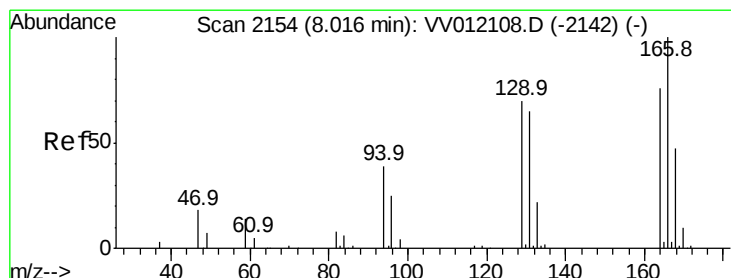
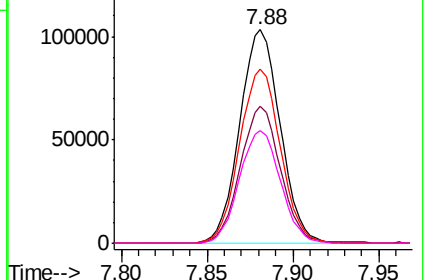
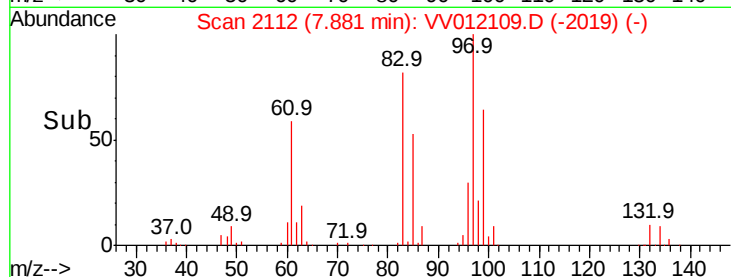


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 107.214 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Tgt Ion:164 Resp: 166843

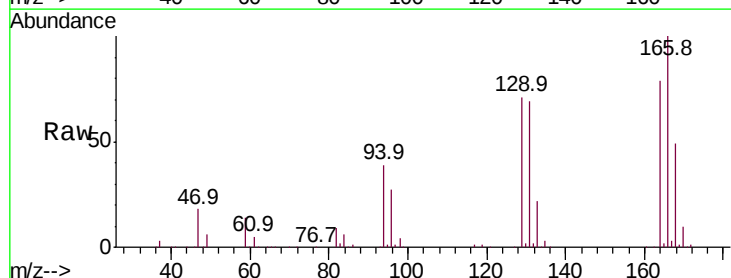
Ion Ratio Lower Upper

164 100

129 89.6 64.3 119.5

131 87.6 60.1 111.7

166 126.8 91.8 170.6

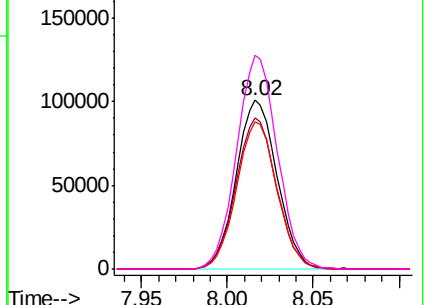
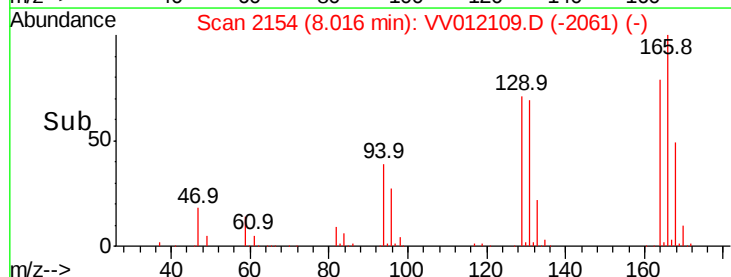


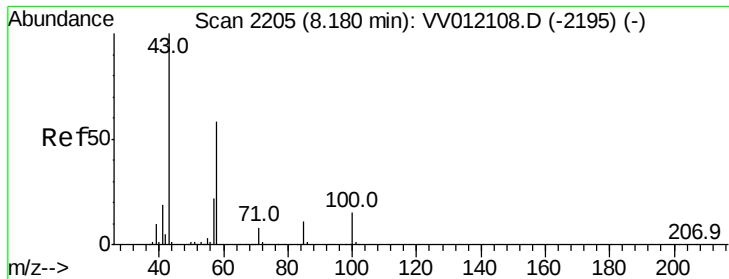
Abundance Ion 164.00 (163.70 to 164.70): V

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

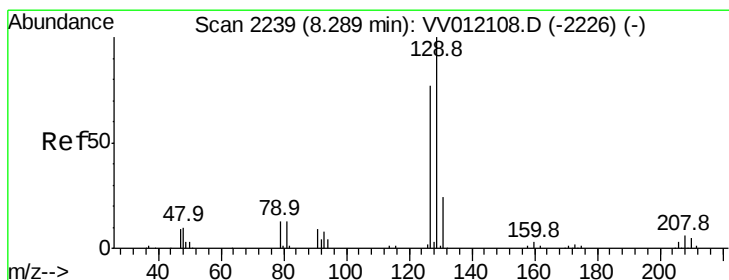
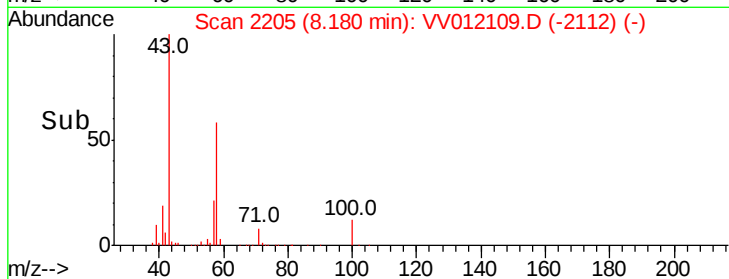
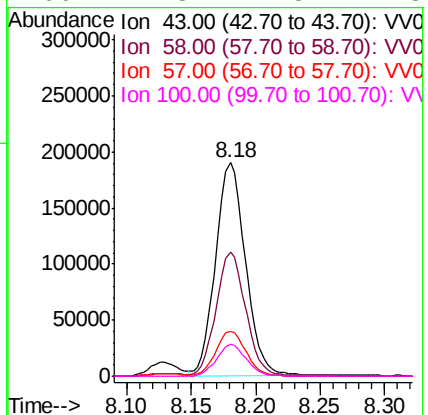
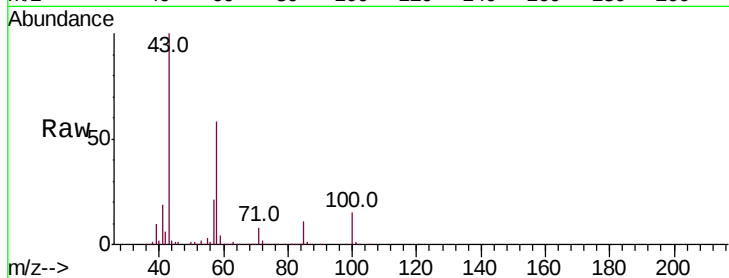




#48
2-Hexanone
Concen: 216.073 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

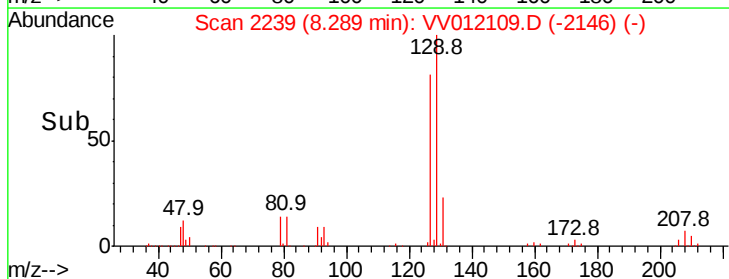
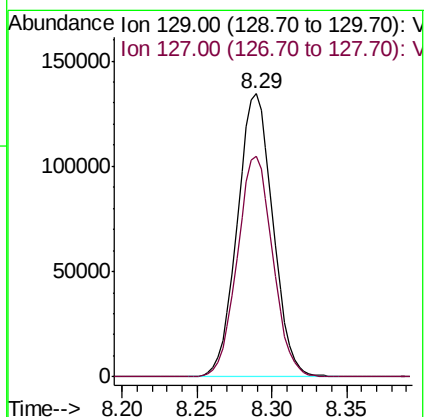
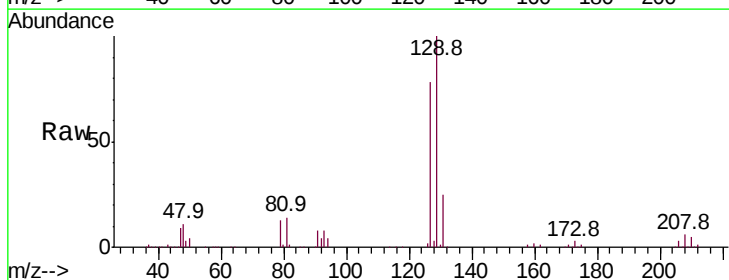
Instrument :
MSVOA_V
ClientSampled :

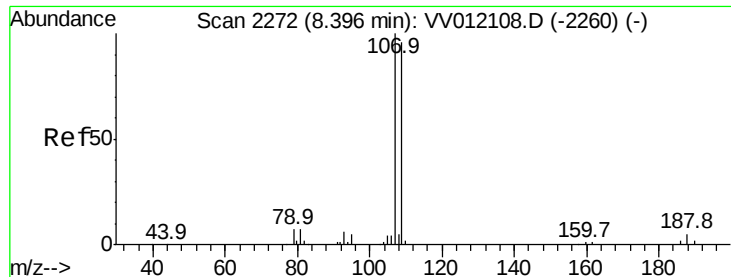
Tot Ion:	43	Resp:	307297
Ion	Ratio	Lower	Upper
43	100		
58	57.3	45.6	68.4
57	21.3	17.0	25.6
100	14.8	11.5	17.3



#49
Dibromochloromethane
Concen: 108.666 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

Tgt Ion:	129	Resp:	222792
Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.8	100.0

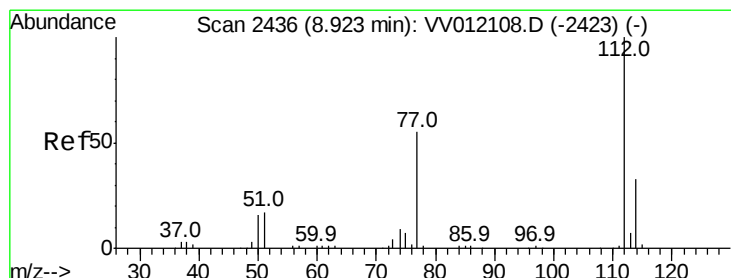
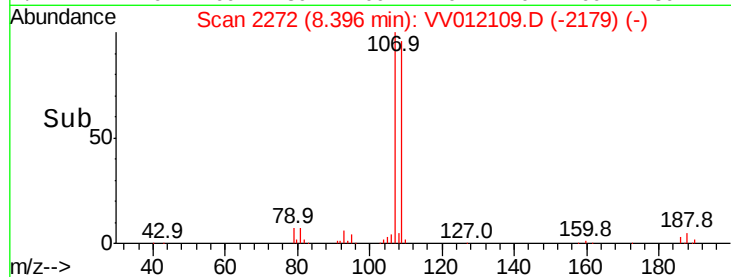
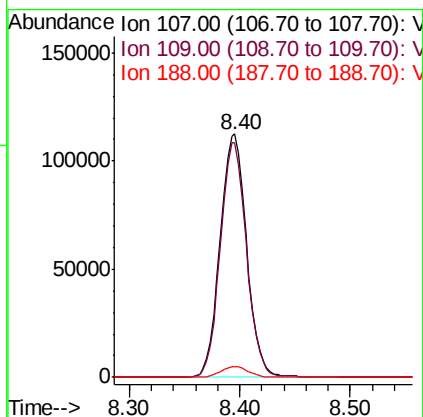
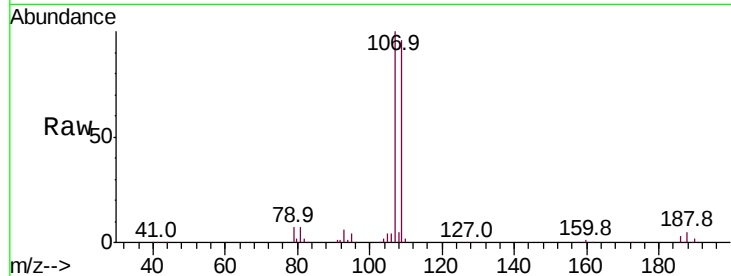




#50
1,2-Dibromoethane
Concen: 107.631 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

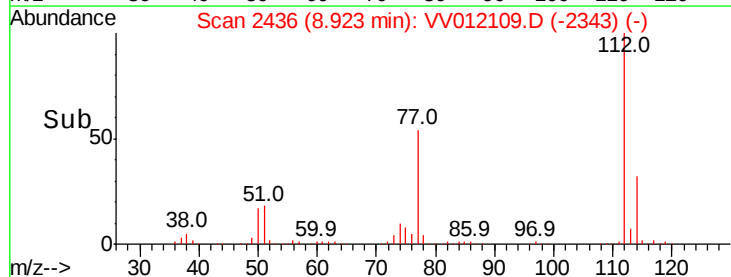
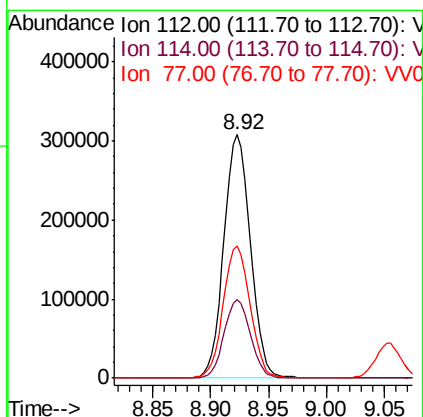
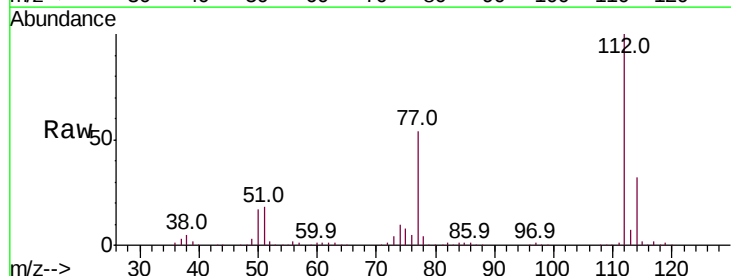
Instrument :
MSVOA_V
ClientSampled :

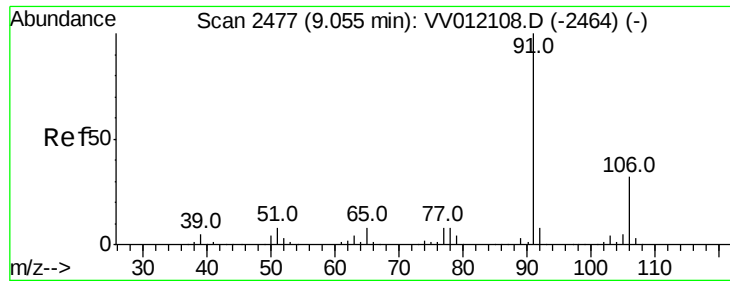
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.3	67.0	124.4
188	4.6	3.9	5.9



#51
Chlorobenzene
Concen: 108.142 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012109.D
Acq: 06 Aug 2019 11:10

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.8	42.4
77	54.4	44.7	67.1





#52

Ethylbenzene

Concen: 110.019 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

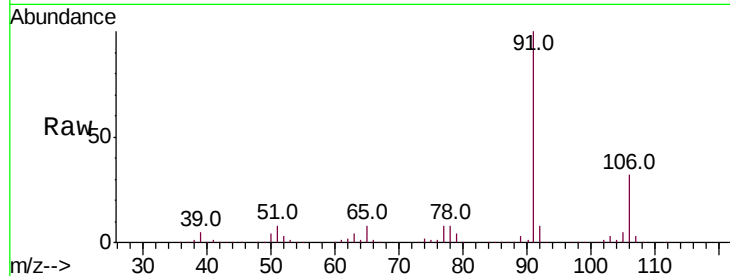
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 824251

Ion Ratio Lower Upper

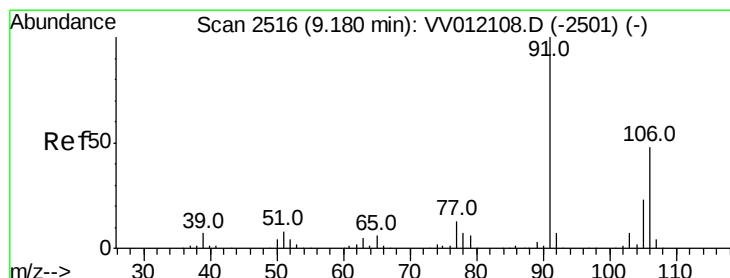
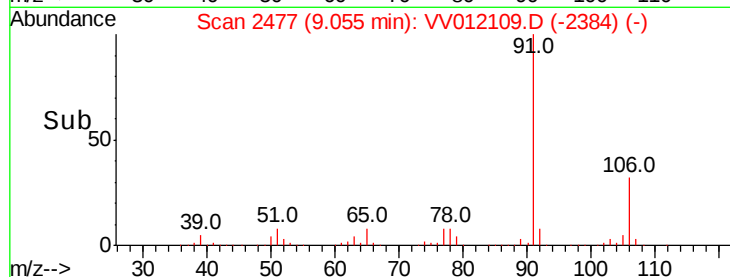
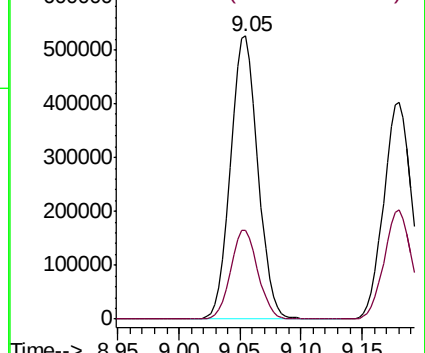
91 100

106 31.6 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 110.320 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012109.D

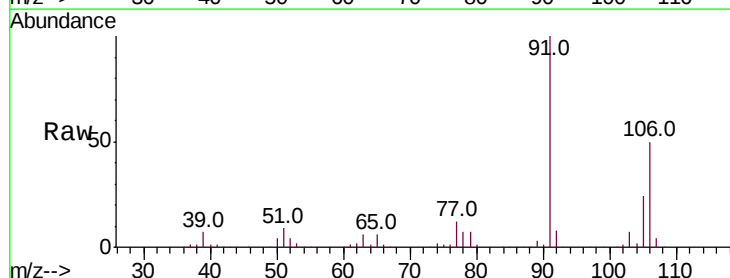
Acq: 06 Aug 2019 11:10

Tgt Ion: 106 Resp: 318839

Ion Ratio Lower Upper

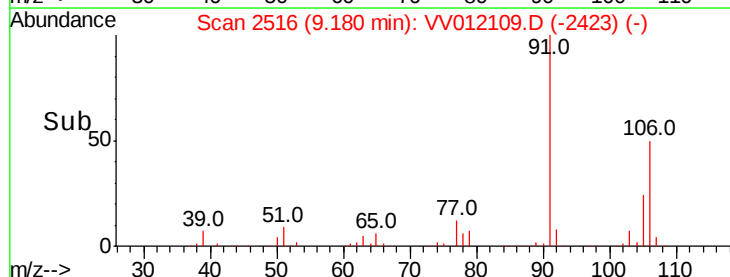
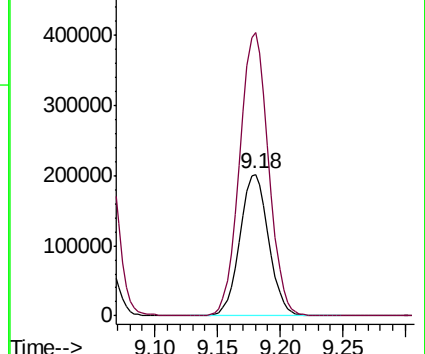
106 100

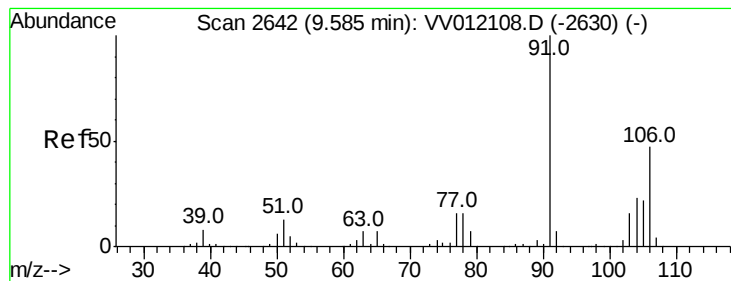
91 199.5 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#54

o-Xylene

Concen: 108.814 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

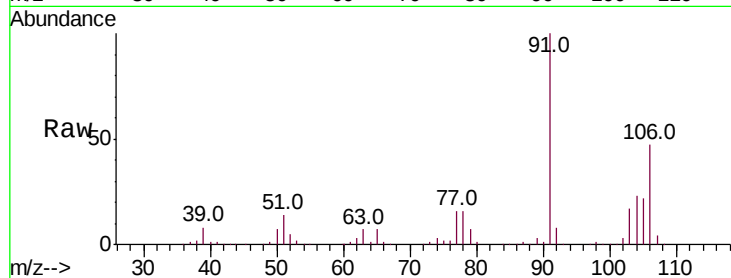
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 312068

Ion Ratio Lower Upper

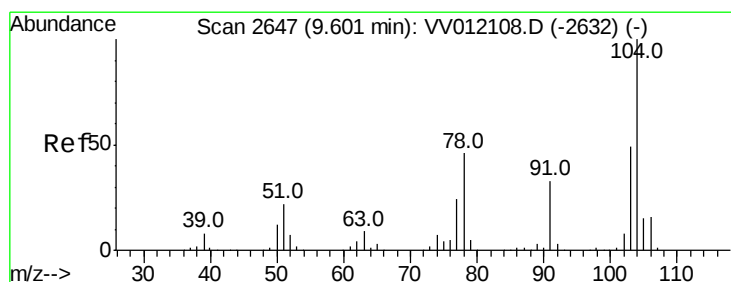
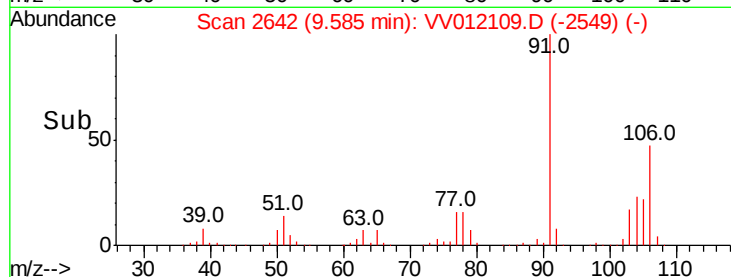
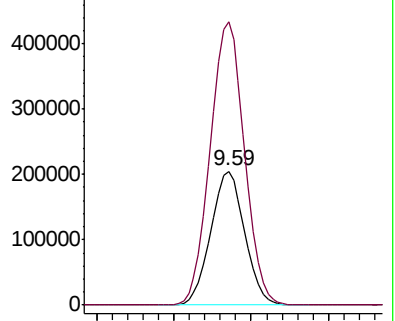
106 100

91 211.3 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 111.589 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012109.D

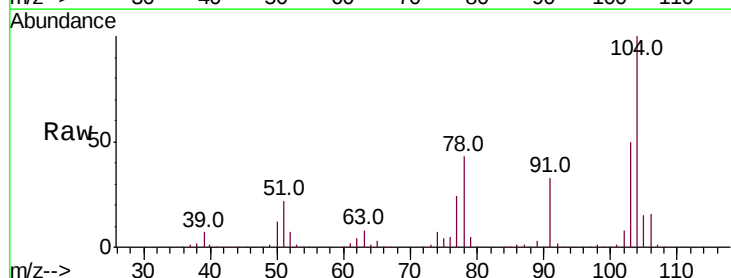
Acq: 06 Aug 2019 11:10

Tgt Ion:104 Resp: 539110

Ion Ratio Lower Upper

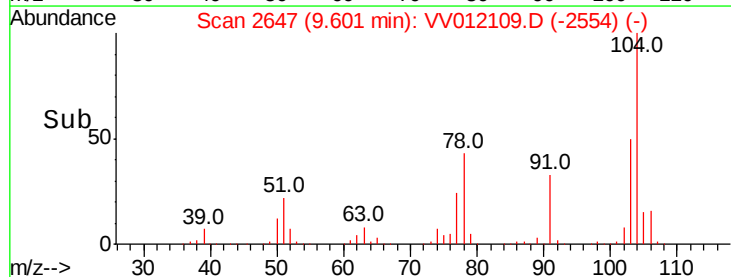
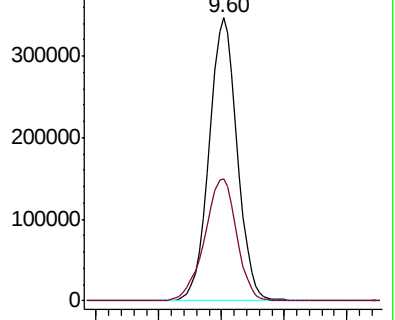
104 100

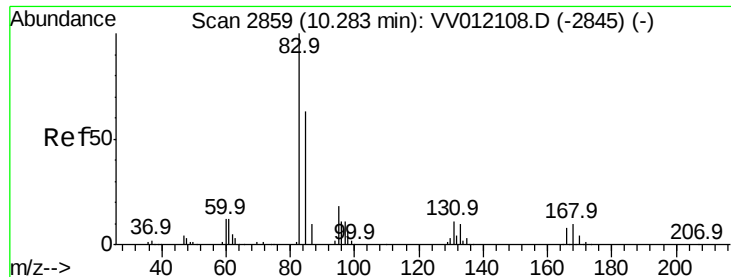
78 43.3 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

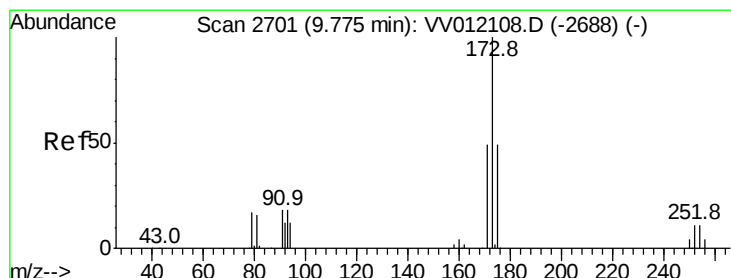
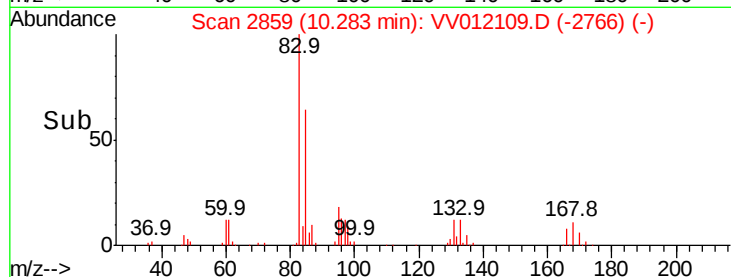
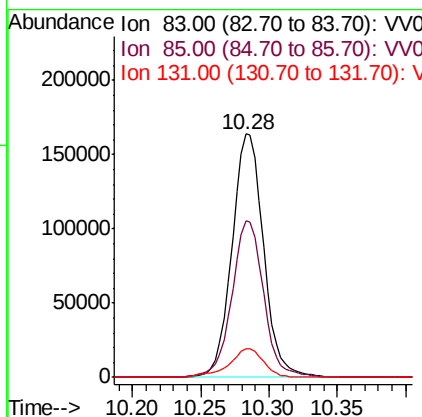
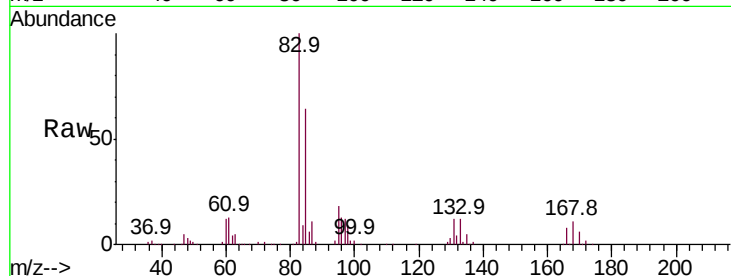




#57
 1,1,2,2-Tetrachloroethane
 Concen: 108.377 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. 0.00 min
 Lab File: VV012109.D
 Acq: 06 Aug 2019 11:10

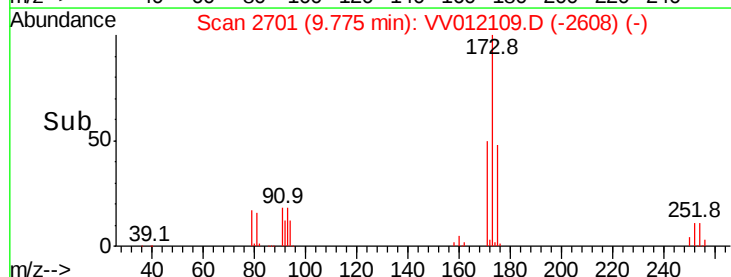
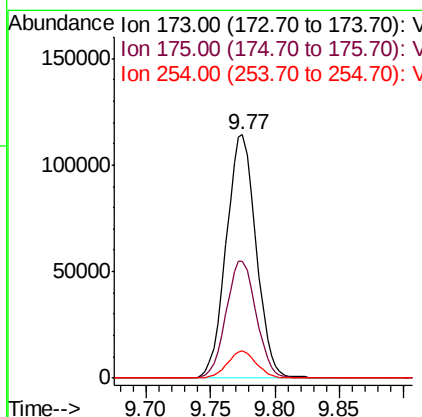
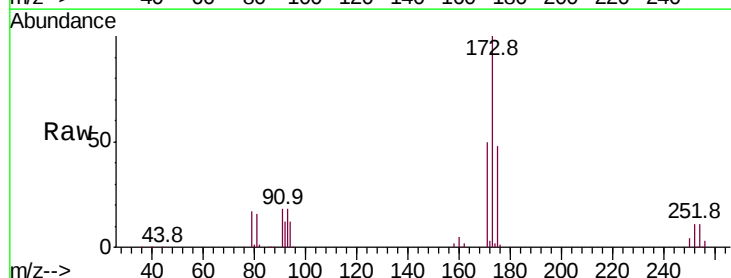
Instrument :
 MSVOA_V
 ClientSampleId :

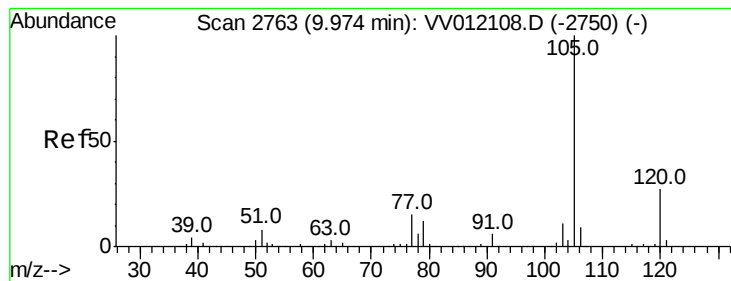
Tot Ion	83	Resp	263318
Ion	Ratio	Lower	Upper
83	100		
85	64.2	44.6	82.8
131	11.8	9.3	13.9



#59
 Bromoform
 Concen: 109.689 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV012109.D
 Acq: 06 Aug 2019 11:10

Tgt Ion	173	Resp	183434
Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.3	57.5
254	10.7	8.9	13.3





#60

Isopropylbenzene

Concen: 108.422 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :
MSVOA_V
ClientSampleId :

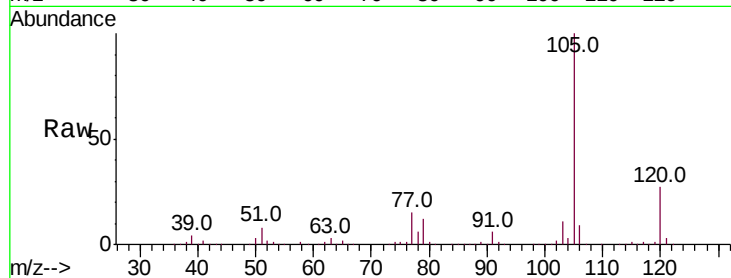
Tot Ion:105 Resp: 846183

Ion Ratio Lower Upper

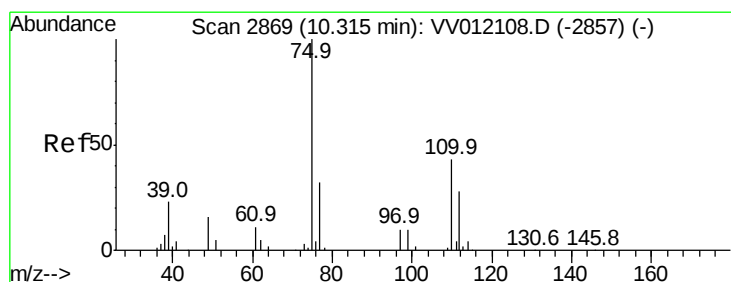
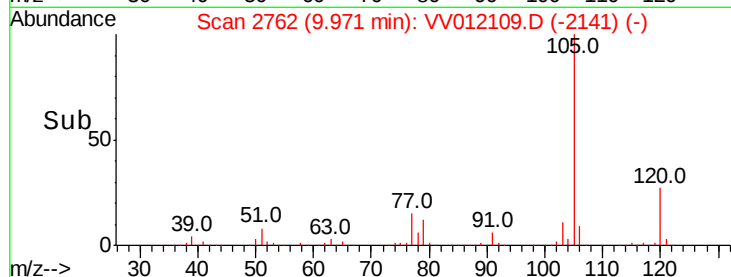
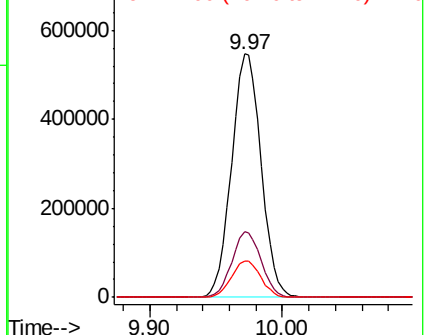
105 100

120 26.8 21.4 32.0

77 14.9 11.6 17.4



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



#61

1,2,3-Trichloropropane

Concen: 105.607 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

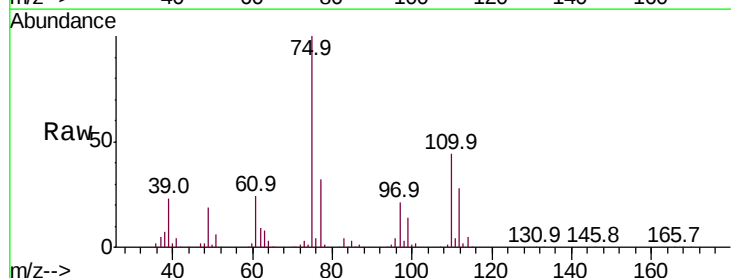
Tgt Ion: 75 Resp: 204447

Ion Ratio Lower Upper

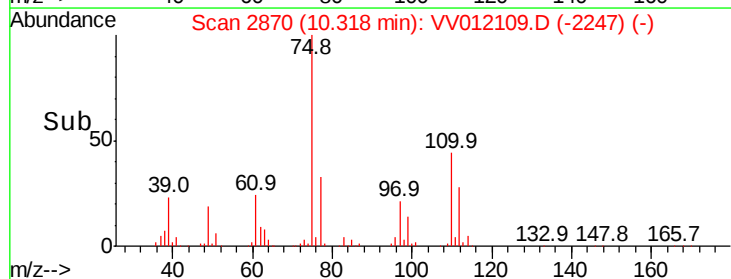
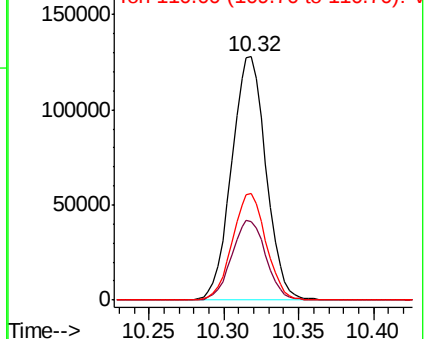
75 100

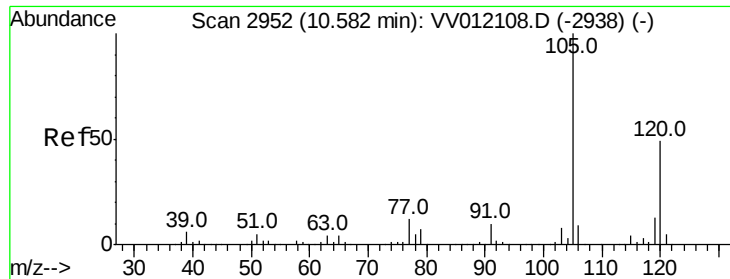
77 32.7 25.7 38.5

110 43.0 34.2 51.4



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0
Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 109.505 ug/L

RT: 10.58 min Scan# 2951

Delta R.T. -0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :

MSVOA_V

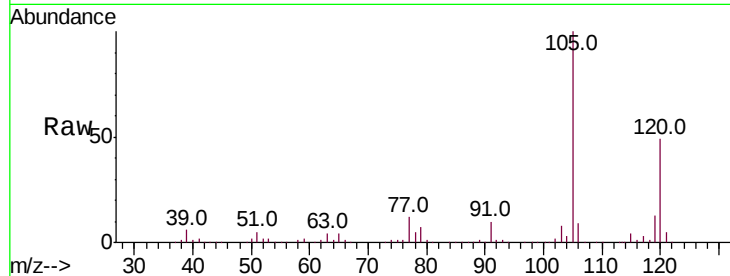
ClientSampleId :

Tot Ion:105 Resp: 732270

Ion Ratio Lower Upper

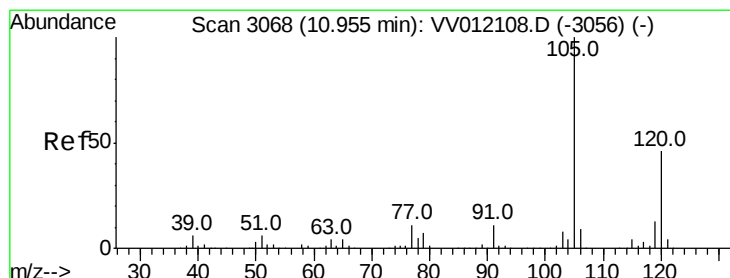
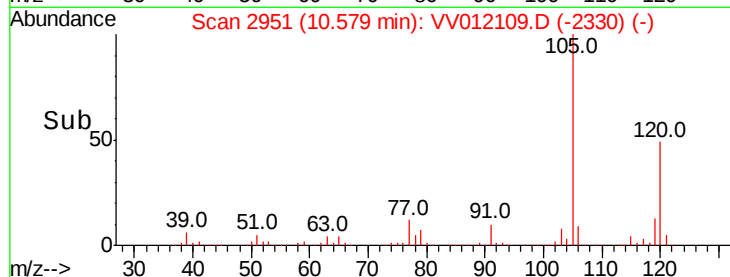
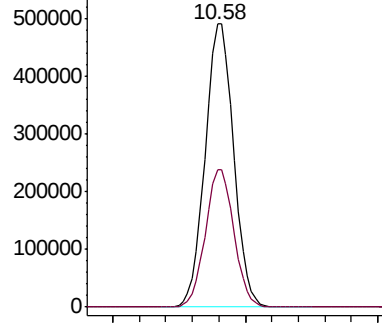
105 100

120 48.6 39.2 58.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 108.607 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VV012109.D

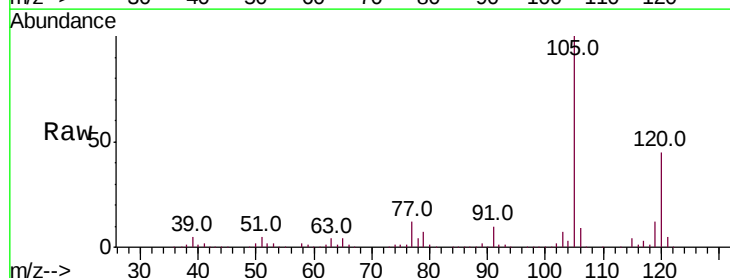
Acq: 06 Aug 2019 11:10

Tgt Ion:105 Resp: 729731

Ion Ratio Lower Upper

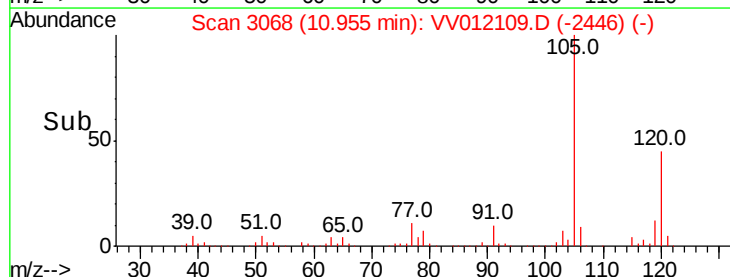
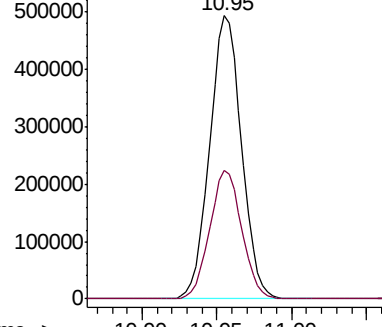
105 100

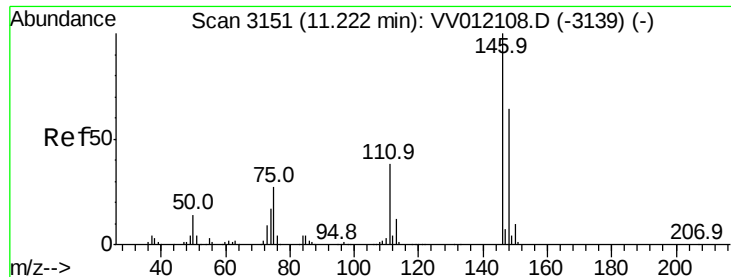
120 45.6 36.7 55.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 107.569 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :

MSVOA_V

ClientSampleId :

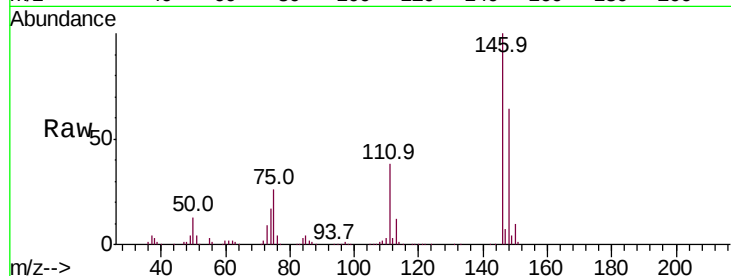
Tot Ion:146 Resp: 423591

Ion Ratio Lower Upper

146 100

111 37.8 26.8 49.8

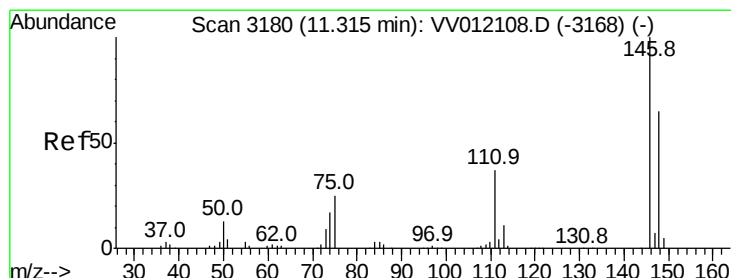
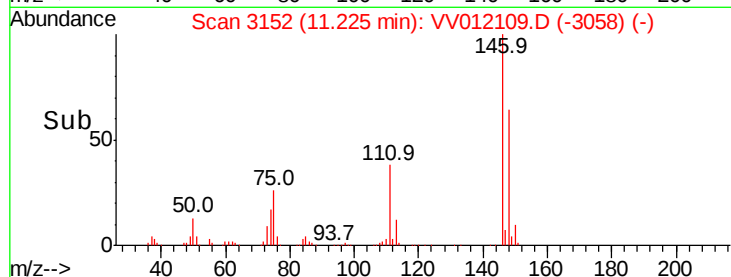
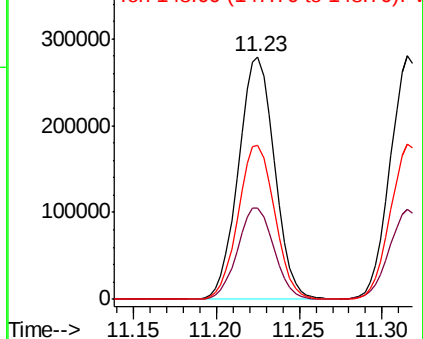
148 63.7 44.6 82.8



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



#65

1,4-Dichlorobenzene

Concen: 107.273 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

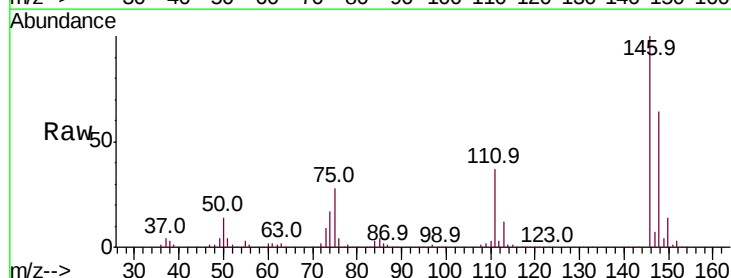
Tgt Ion:146 Resp: 426987

Ion Ratio Lower Upper

146 100

111 36.9 25.8 47.8

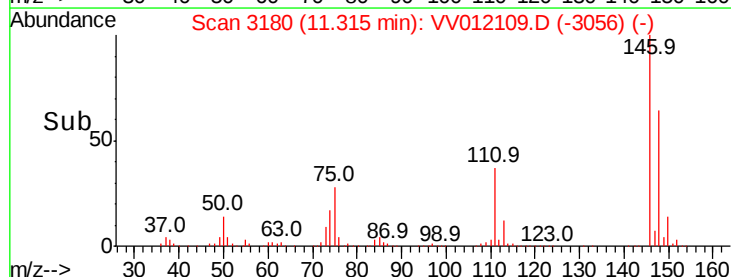
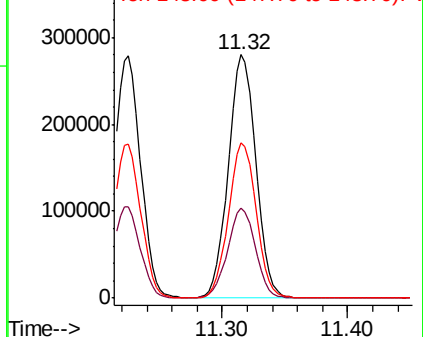
148 63.7 45.2 84.0

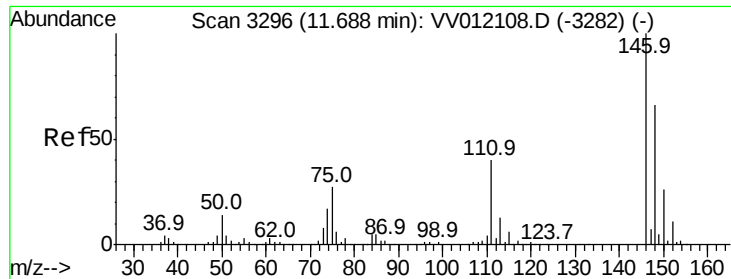


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

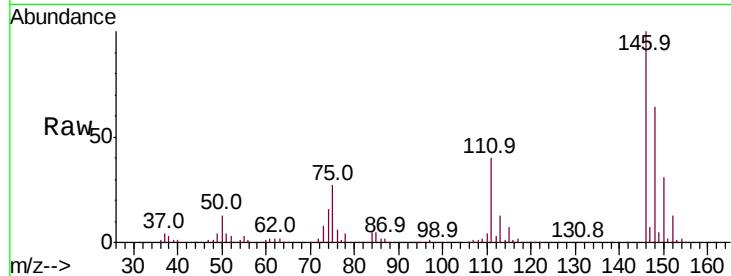




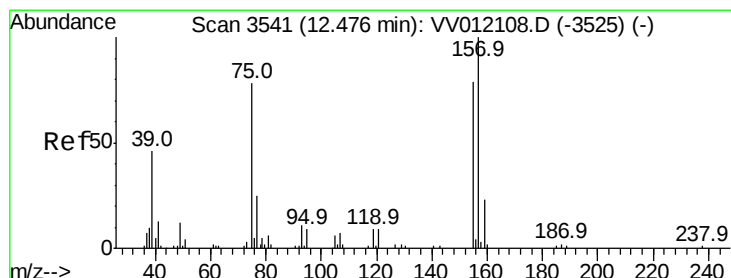
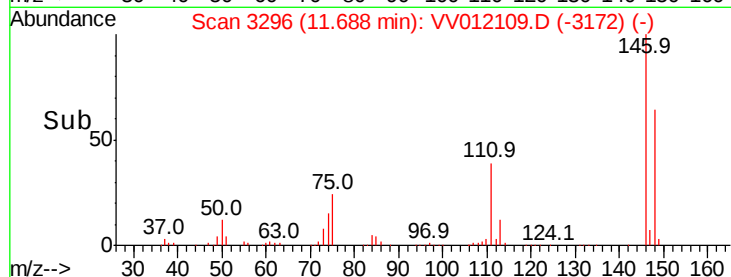
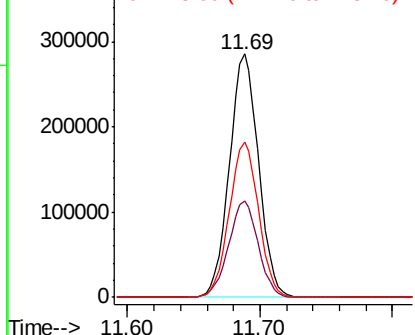
#67
 1,2-Dichlorobenzene
 Concen: 108.134 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV012109.D
 Acq: 06 Aug 2019 11:10

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	32.2	48.2
148	63.8	53.2	79.8

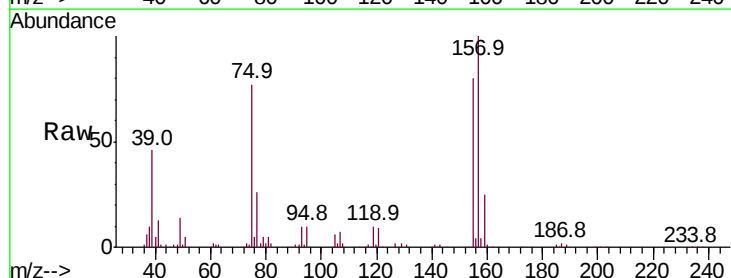


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

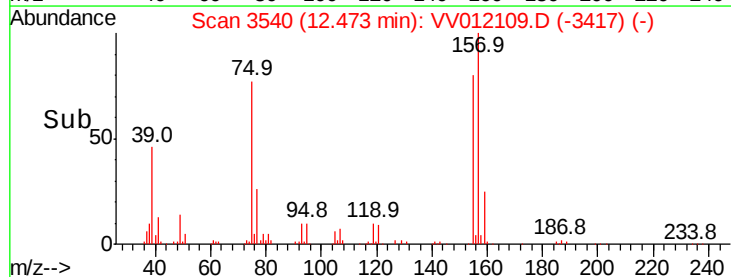
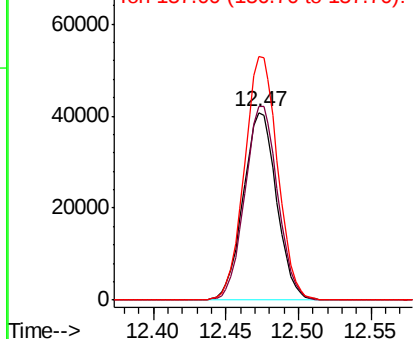


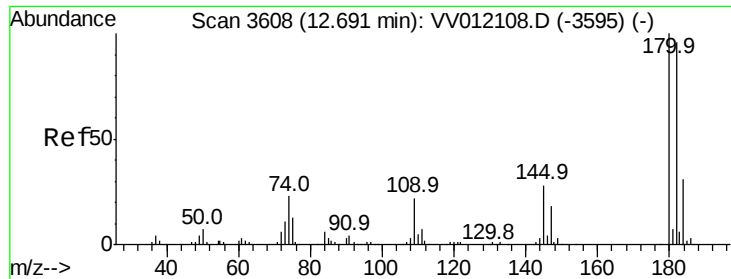
#68
 1,2-Dibromo-3-chloropropane
 Concen: 102.096 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV012109.D
 Acq: 06 Aug 2019 11:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.6	81.2	121.8
157	130.0	102.3	153.5



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

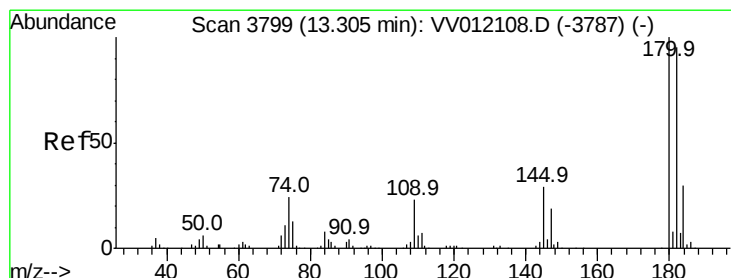
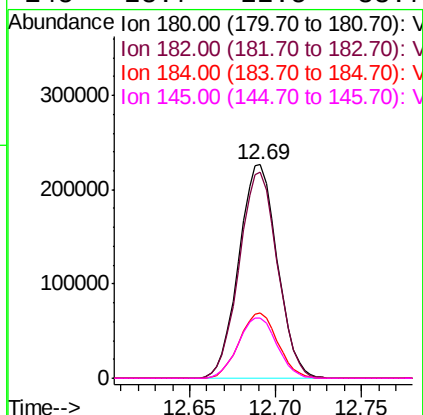
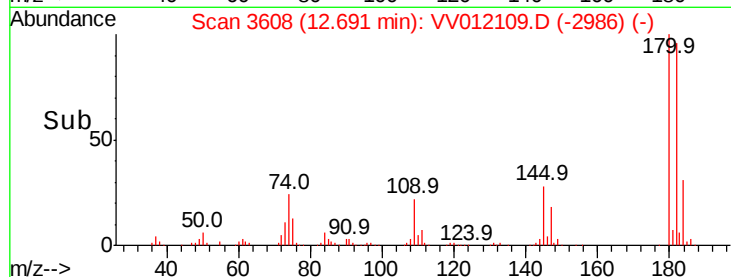
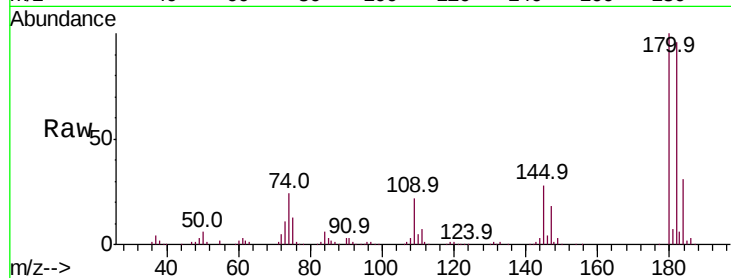




#69
 1,3,5-Trichlorobenzene
 Concen: 110.325 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012109.D
 Acq: 06 Aug 2019 11:10

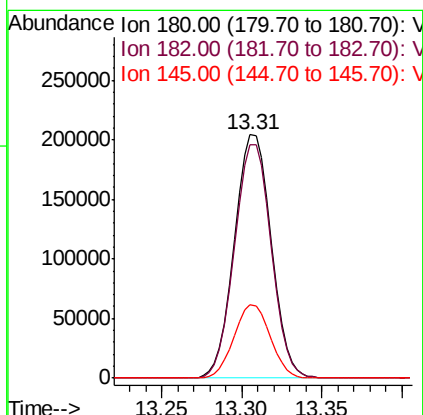
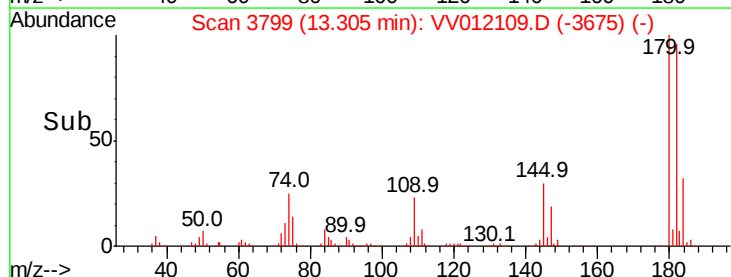
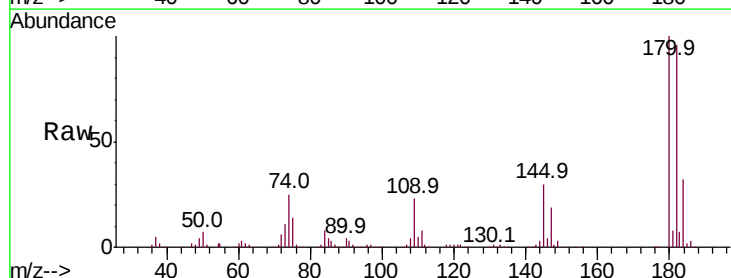
Instrument :
 MSVOA_V
 ClientSampleId :

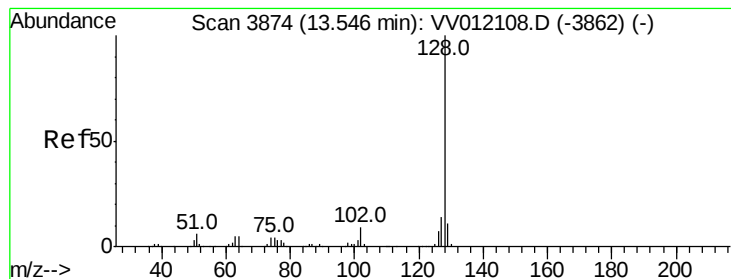
Tot Ion:	180	Resp:	352179
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.5	114.7
184	30.5	24.6	36.8
145	28.7	22.5	33.7



#70
 1,2,4-trichlorobenzene
 Concen: 115.734 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV012109.D
 Acq: 06 Aug 2019 11:10

Tgt Ion:	180	Resp:	320330
Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.5	114.7
145	29.7	23.3	34.9





#71

Naphthalene

Concen: 121.813 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

Instrument :

MSVOA_V

ClientSampleId :

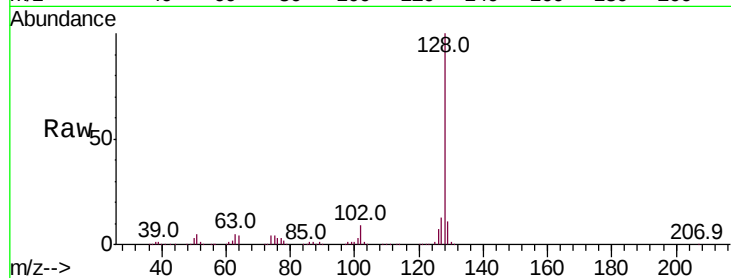
Tot Ion:128 Resp: 854521

Ion Ratio Lower Upper

128 100

127 13.3 10.6 15.8

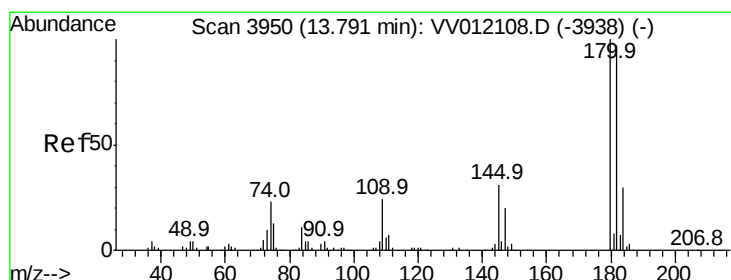
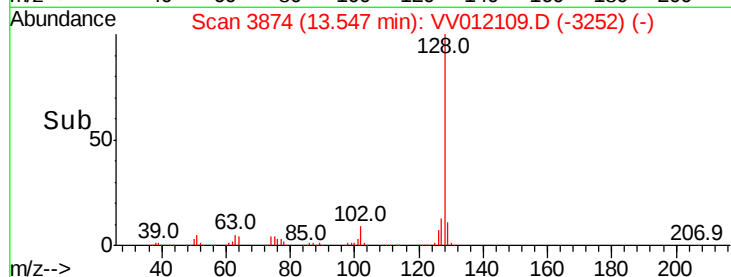
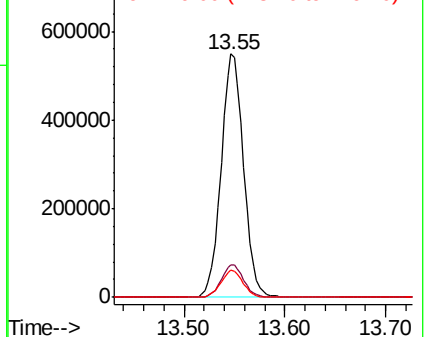
129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 115.135 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012109.D

Acq: 06 Aug 2019 11:10

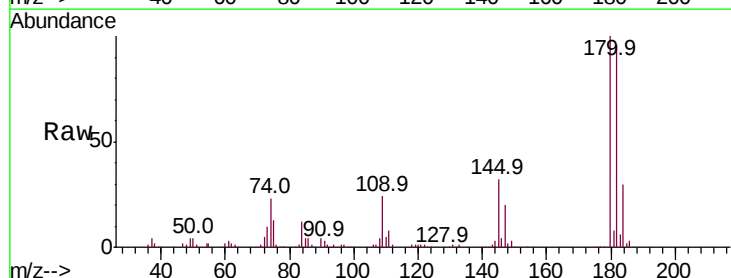
Tgt Ion:180 Resp: 320690

Ion Ratio Lower Upper

180 100

182 96.2 77.2 115.8

145 31.7 24.6 36.8



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

