

Data File : VV013015.D
Acq On : 30 Sep 2019 12:53
Operator : SY/MD
Sample : VSTD10081
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

Quant Time: Sep 30 14:06:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
Quant Title : VOC Analysis
QLast Update : Mon Sep 30 13:59:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	826999	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	821371	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	446046	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	997593	84.32	ug/L	0.00
7) Chloroethane-d5	1.58	69	854008	86.09	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	1736125	85.21	ug/L	0.00
21) 2-Butanone-d5	3.94	46	933872	275.28	ug/L	0.00
24) Chloroform-d	4.40	84	1992708	89.46	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	1148836	90.65	ug/L	0.00
32) Benzene-d6	5.10	84	4040194	89.18	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.11	67	1288164	90.70	ug/L	0.00
41) Toluene-d8	7.36	98	3815566	92.22	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	599824	100.63	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	719647	240.34	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.26	84	1305091	98.24	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.67	152	1560930	90.75	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	935511	105.584 ug/L	99
3) Chloromethane	1.25	50	1105033	97.952 ug/L	100
5) Vinyl chloride	1.32	62	1110857	95.575 ug/L	100
6) Bromomethane	1.54	94	701818	93.996 ug/L	97
8) Chloroethane	1.60	64	684452	93.170 ug/L	99
9) Trichlorofluoromethane	1.77	101	1342312	85.262 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	917094	90.882 ug/L	98
12) 1,1-Dichloroethene	2.14	96	860432	90.784 ug/L	90
13) Acetone	2.22	43	796506	180.911 ug/L	100
14) Carbon disulfide	2.32	76	2772143	95.300 ug/L	99
15) Methyl Acetate	2.47	43	733531	107.959 ug/L	100
16) Methylene chloride	2.53	84	1131084	83.507 ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	1045949	93.616 ug/L	99
18) Methyl tert-butyl Ether	2.80	73	2841856	101.117 ug/L	100
19) 1,1-Dichloroethane	3.23	63	1913901	93.339 ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	1214919	97.770 ug/L	99
22) 2-Butanone	4.03	43	1085052	284.718 ug/L	98
23) Bromochloromethane	4.30	128	578937	95.031 ug/L	98
25) Chloroform	4.42	83	1961784	91.766 ug/L	98
27) 1,2-Dichloroethane	5.18	62	1409224	95.892 ug/L	99
29) Cyclohexane	4.72	56	1790288	99.008 ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	1575002	93.878 ug/L	99
31) Carbon tetrachloride	4.87	117	1412500	93.527 ug/L	99
33) Benzene	5.14	78	4407861	93.863 ug/L	100
34) Trichloroethene	5.96	95	1180505	92.795 ug/L	99
35) Methylcyclohexane	6.17	83	1933374	96.826 ug/L	98
37) 1,2-Dichloropropane	6.22	63	1162562	96.483 ug/L	99
38) Bromodichloromethane	6.55	83	1512598	96.167 ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	1897826	104.603 ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	2132420	221.431 ug/L	99

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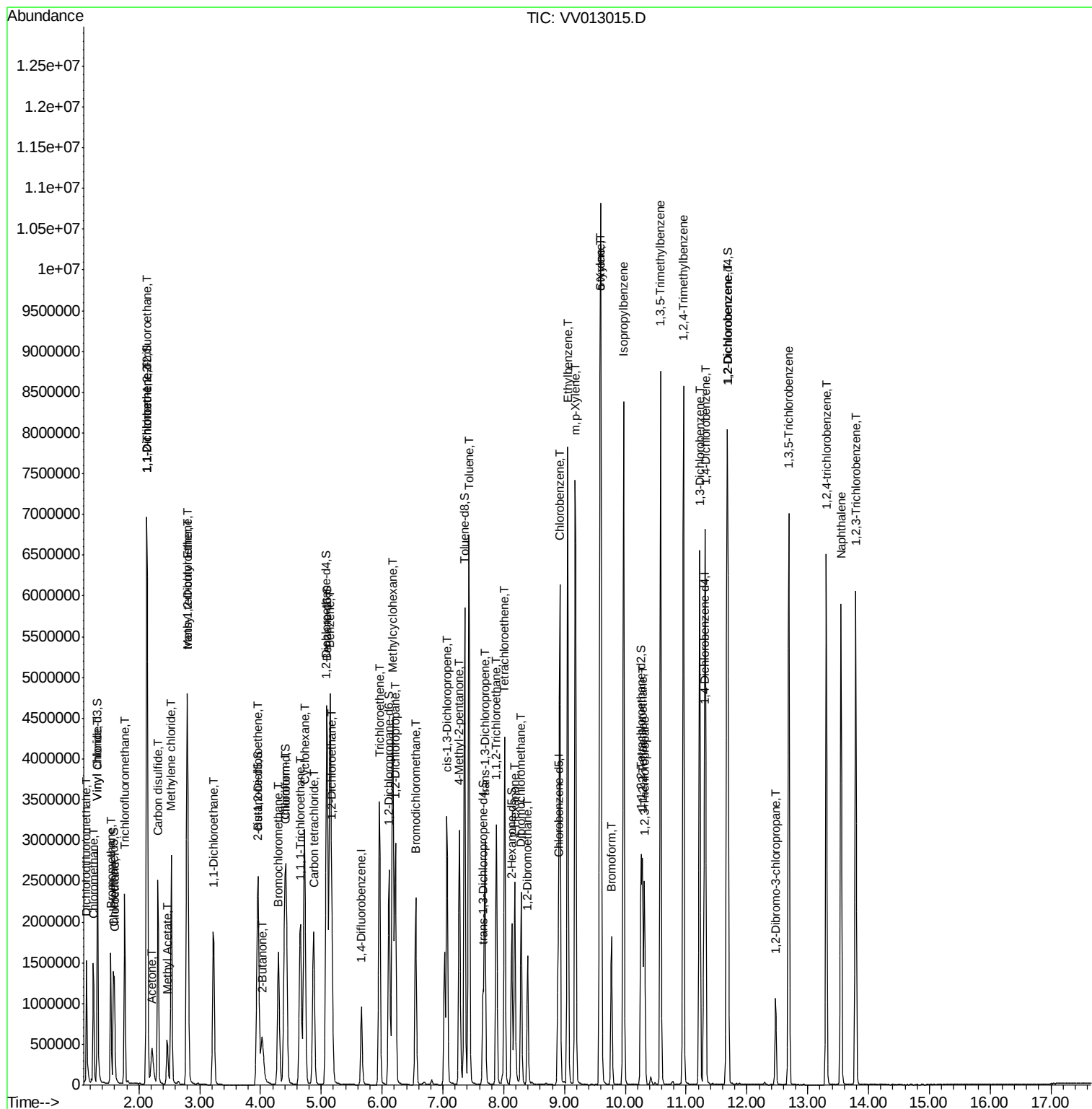
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	4754128	95.187	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	1597994	107.268	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	986838	96.545	ug/L	100
46) Tetrachloroethene	8.02	164	968898	92.049	ug/L	98
48) 2-Hexanone	8.18	43	1619724	230.986	ug/L	100
49) Dibromochloromethane	8.29	129	1188648	101.980	ug/L	99
50) 1,2-Dibromoethane	8.39	107	1013746	100.531	ug/L	98
51) Chlorobenzene	8.92	112	3202596	94.535	ug/L	100
52) Ethylbenzene	9.05	91	5364088	97.765	ug/L	98
53) m,p-Xylene	9.18	106	2108722	100.543	ug/L	99
54) o-Xylene	9.59	106	2051911	102.260	ug/L	95
55) Styrene	9.60	104	3619164	103.022	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.28	83	1279604	102.670	ug/L	98
59) Bromoform	9.77	173	802668	105.063	ug/L	99
60) Isopropylbenzene	9.97	105	5264873	97.940	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	1010392	99.517	ug/L	99
62) 1,3,5-Trimethylbenzene	10.58	105	4503099	103.969	ug/L	99
63) 1,2,4-Trimethylbenzene	10.95	105	4502452	103.518	ug/L	98
64) 1,3-Dichlorobenzene	11.22	146	2667647	94.546	ug/L	99
65) 1,4-Dichlorobenzene	11.32	146	2712963	91.558	ug/L	99
67) 1,2-Dichlorobenzene	11.69	146	2541534	94.340	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.47	75	241188	109.523	ug/L	96
69) 1,3,5-Trichlorobenzene	12.69	180	2172046	95.615	ug/L	100
70) 1,2,4-trichlorobenzene	13.31	180	1985311	101.070	ug/L	99
71) Naphthalene	13.55	128	4431213	115.809	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	1881210	99.291	ug/L	99

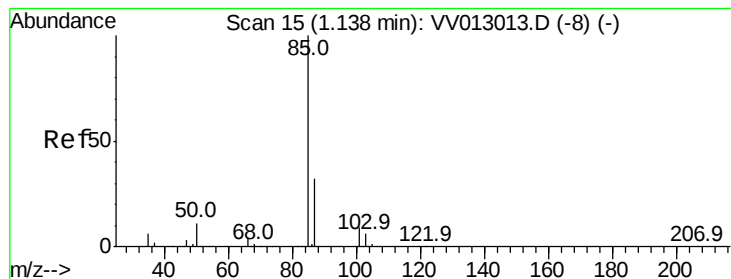
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 105.584 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

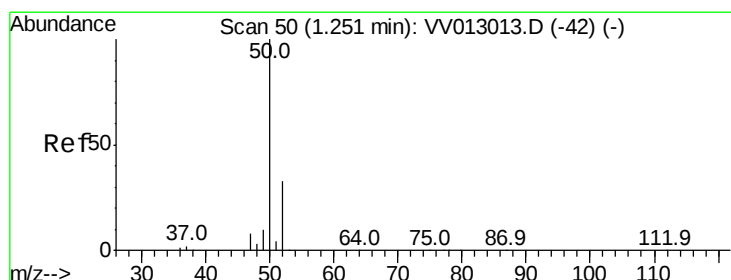
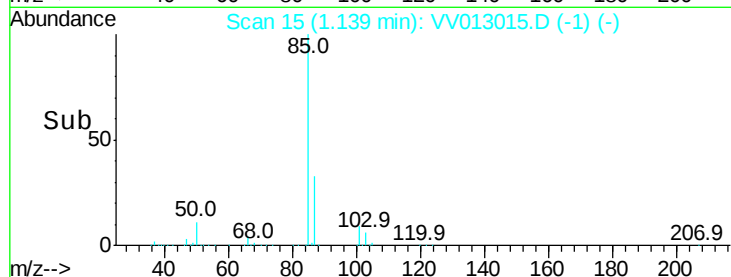
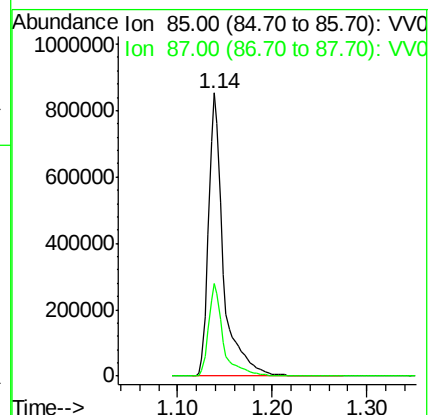
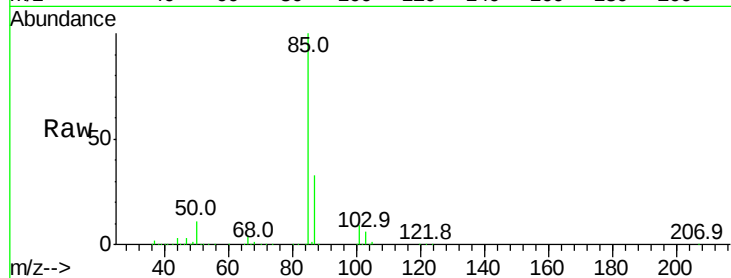
VSTD10066

Tgt Ion: 85 Resp: 935511

Ion Ratio Lower Upper

85 100

87 32.4 25.7 38.5



#3

Chloromethane

Concen: 97.952 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013015.D

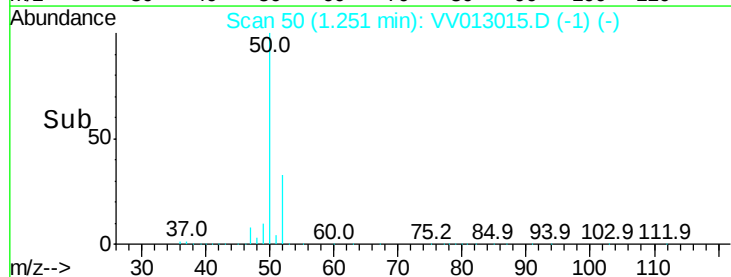
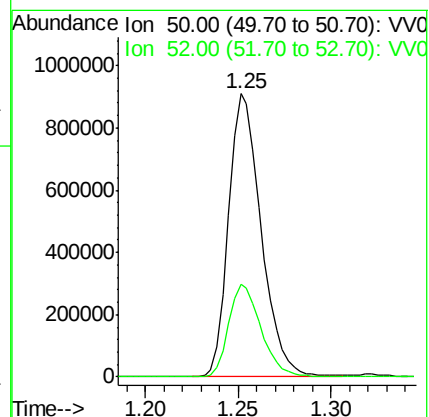
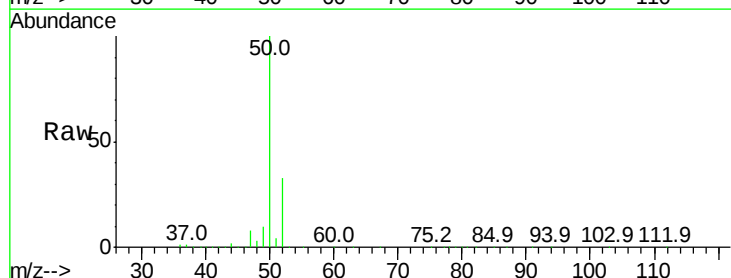
Acq: 30 Sep 2019 12:53

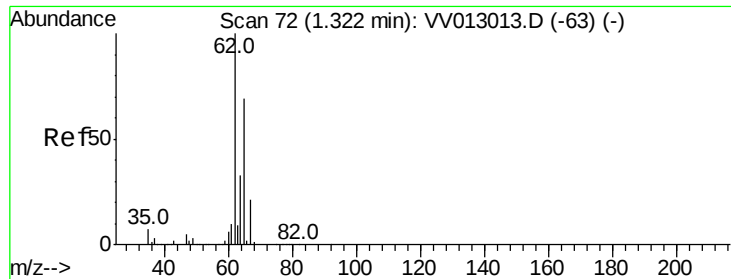
Tgt Ion: 50 Resp: 1105033

Ion Ratio Lower Upper

50 100

52 32.8 23.1 42.9





#5

Vinyl chloride

Concen: 95.575 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

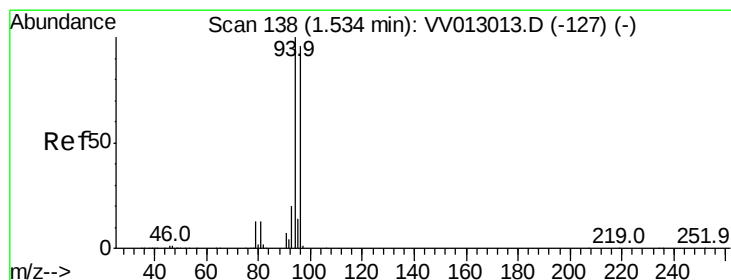
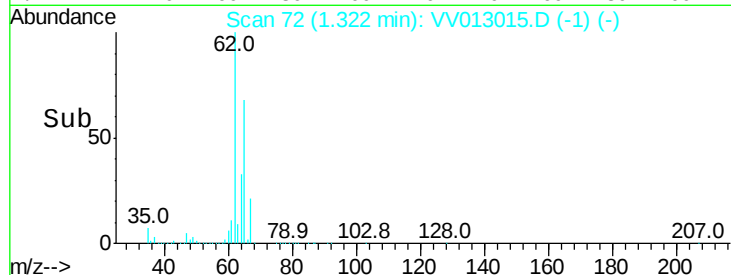
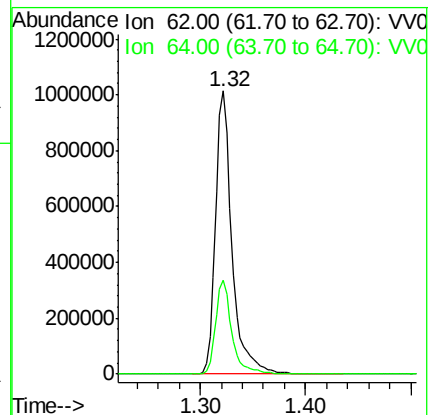
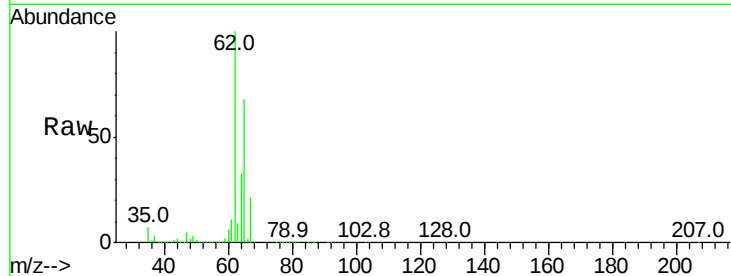
VSTD10066

Tgt Ion: 62 Resp: 1110857

Ion Ratio Lower Upper

62 100

64 33.0 23.1 42.9



#6

Bromomethane

Concen: 93.996 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV013015.D

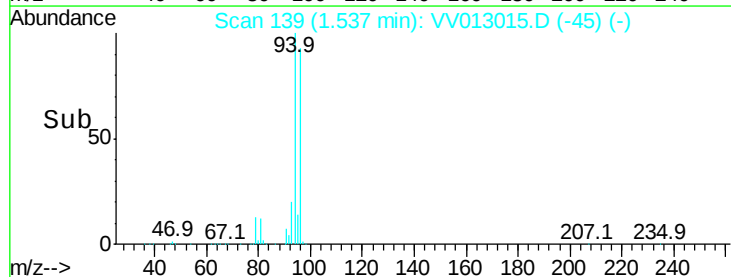
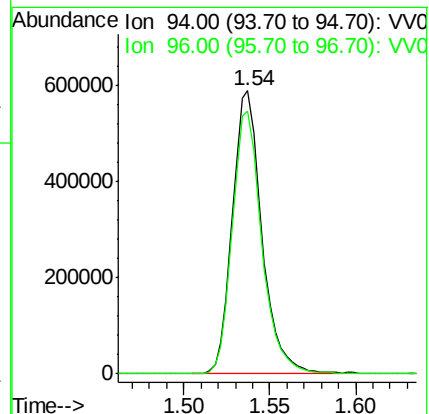
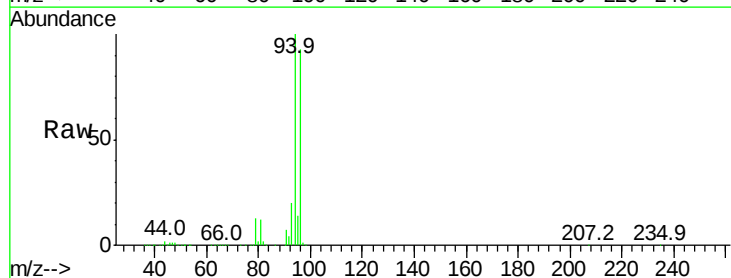
Acq: 30 Sep 2019 12:53

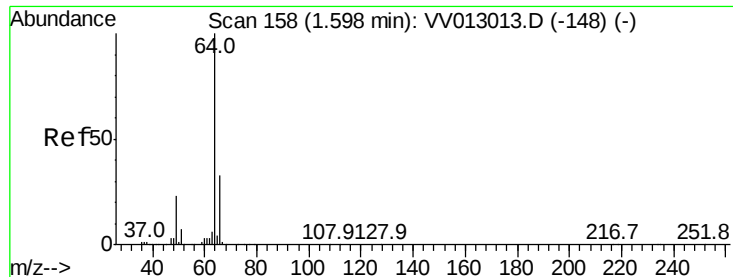
Tgt Ion: 94 Resp: 701818

Ion Ratio Lower Upper

94 100

96 93.1 67.4 125.2





#8

Chloroethane

Concen: 93.170 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

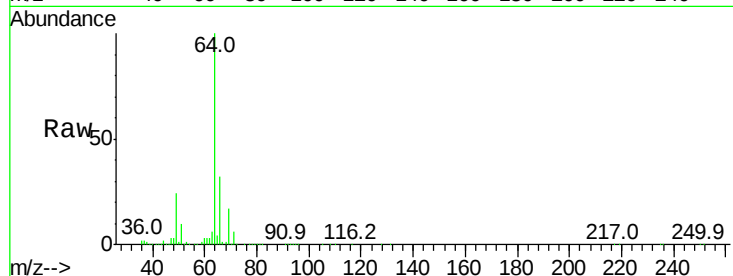
VSTD10066

Tgt Ion: 64 Resp: 684452

Ion Ratio Lower Upper

64 100

66 32.2 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV013015.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV013015.D (-148) (-)

1.60

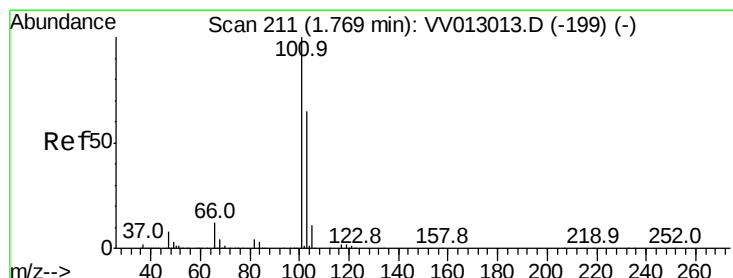
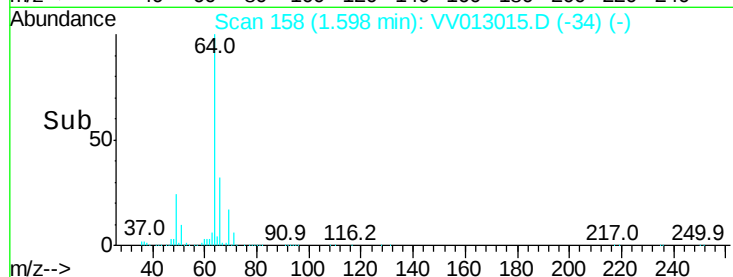
600000

400000

200000

0

Time--> 1.50 1.60 1.70



#9

Trichlorofluoromethane

Concen: 85.262 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV013015.D

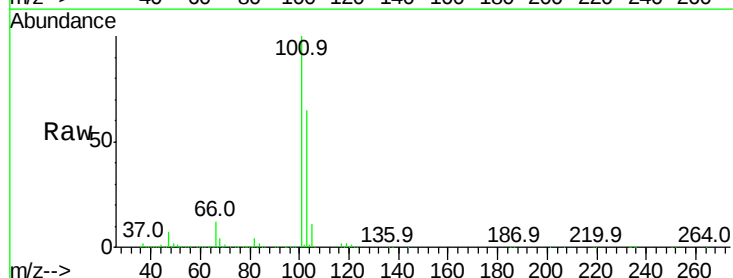
Acq: 30 Sep 2019 12:53

Tgt Ion: 101 Resp: 1342312

Ion Ratio Lower Upper

101 100

103 64.4 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VV013015.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV013015.D (-199) (-)

1.77

1200000

1000000

800000

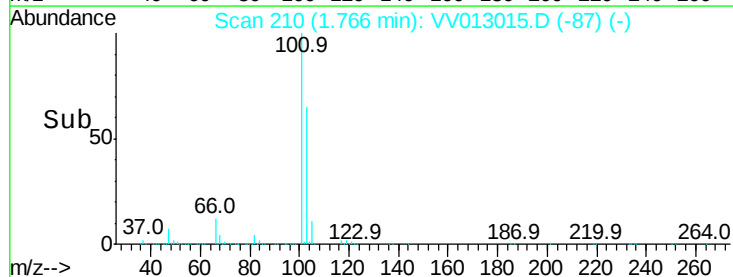
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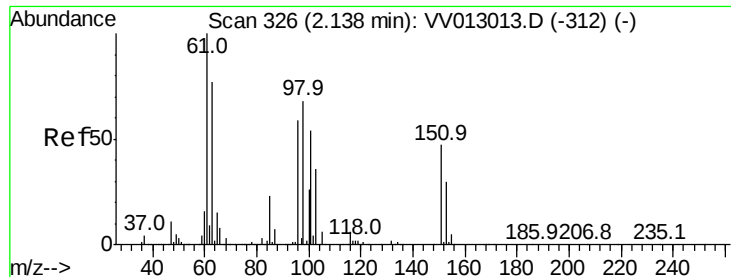
400000

200000

0

Time--> 1.70 1.75 1.80 1.85





#10

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

Concen: 90.882 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

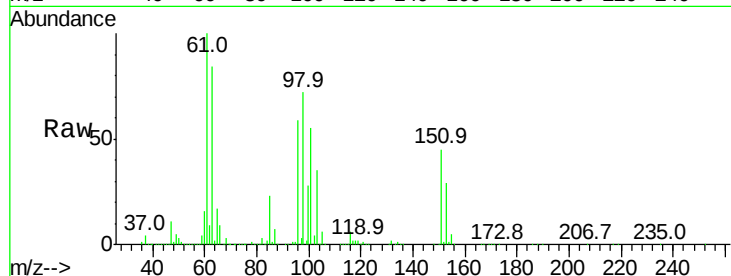
Tgt Ion: 101 Resp: 917094

Ion Ratio Lower Upper

101 100

85 41.1 33.6 50.4

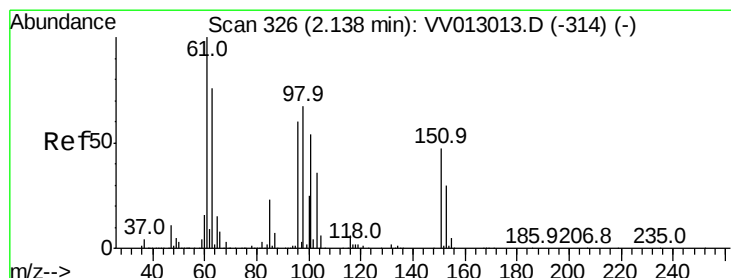
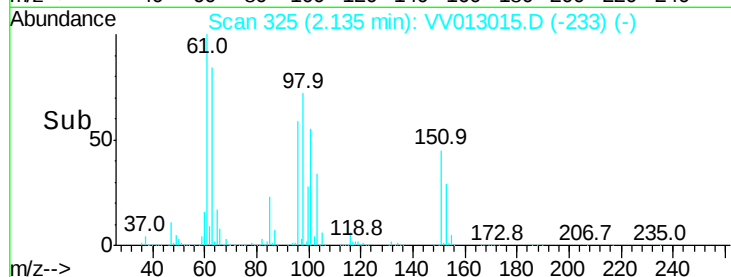
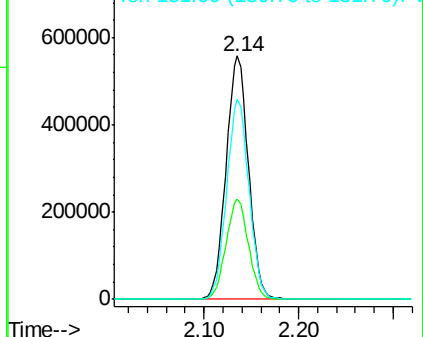
151 82.2 66.9 100.3



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: 90.784 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

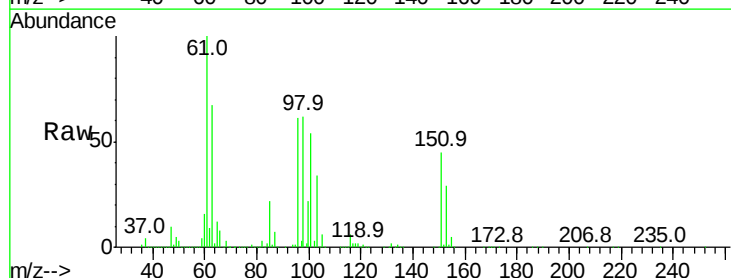
Tgt Ion: 96 Resp: 860432

Ion Ratio Lower Upper

96 100

61 163.1 117.7 218.7

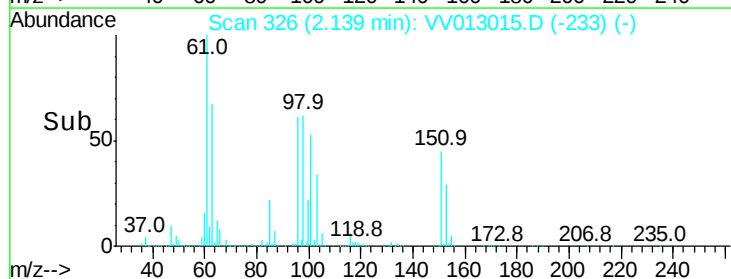
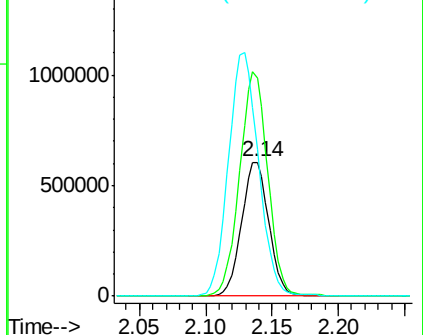
63 109.2 90.4 168.0

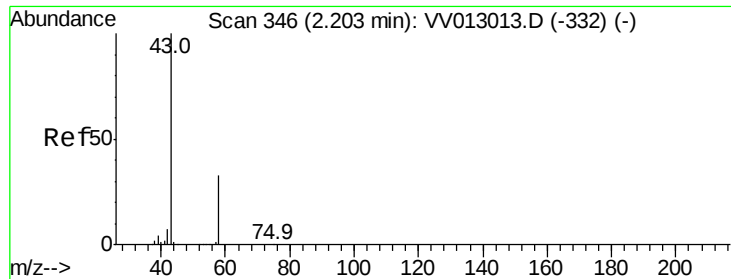


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 180.911 ug/L

RT: 2.22 min Scan# 350

Delta R.T. 0.01 min

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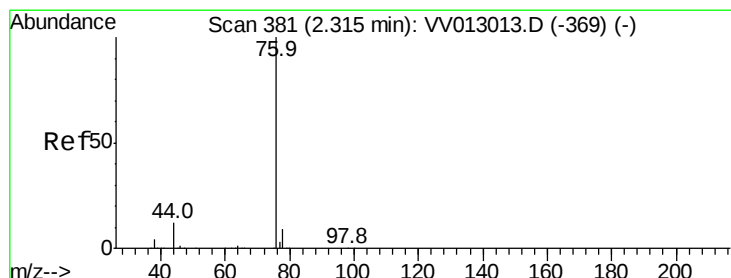
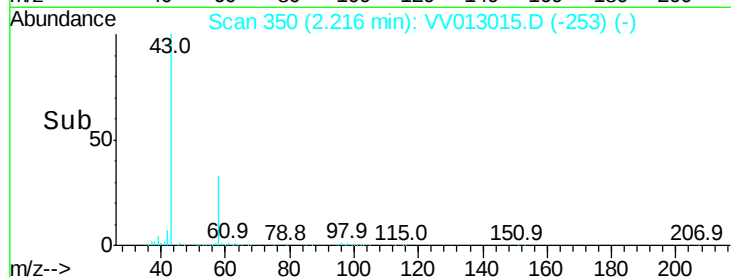
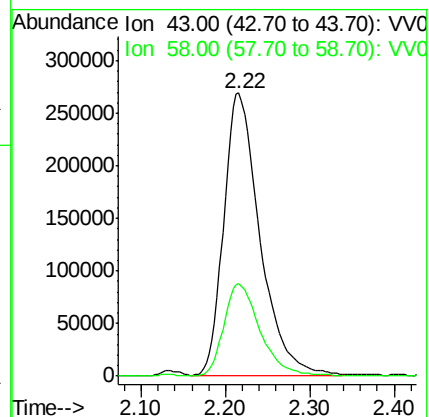
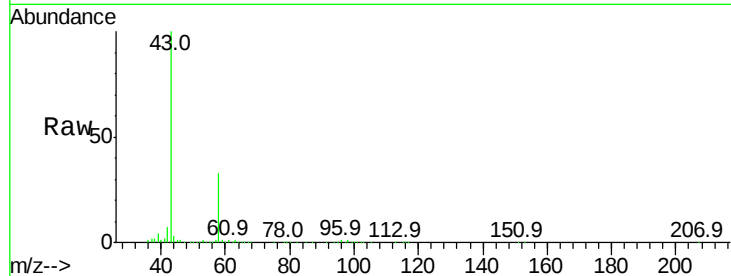
VSTD10066

Tgt Ion: 43 Resp: 796506

Ion Ratio Lower Upper

43 100

58 32.7 0.0 65.2



#14

Carbon disulfide

Concen: 95.300 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV013015.D

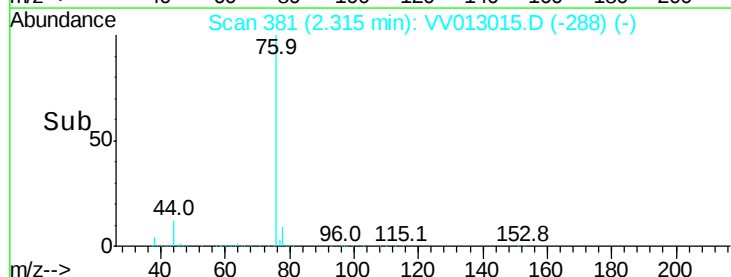
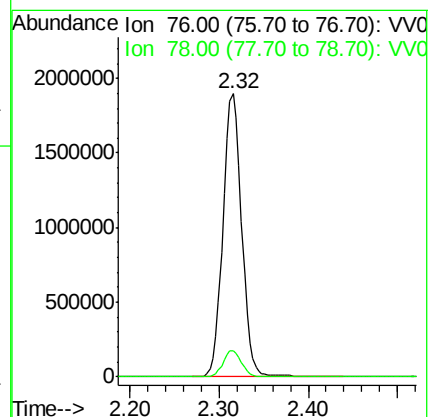
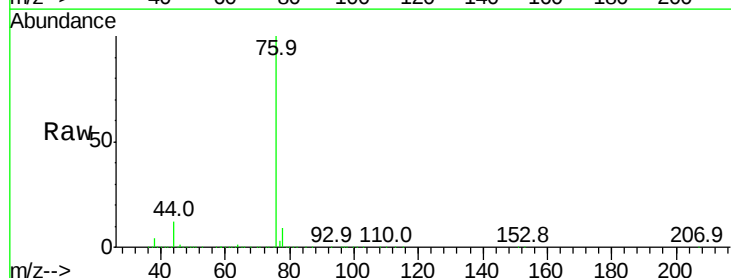
Acq: 30 Sep 2019 12:53

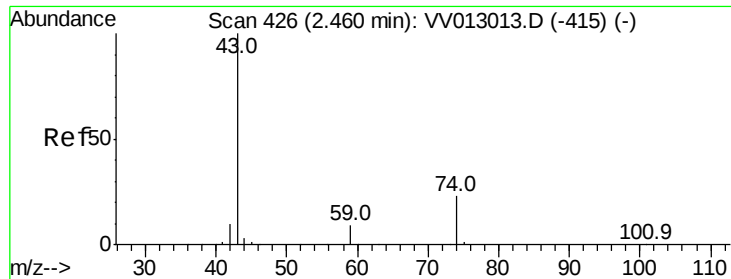
Tgt Ion: 76 Resp: 2772143

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7

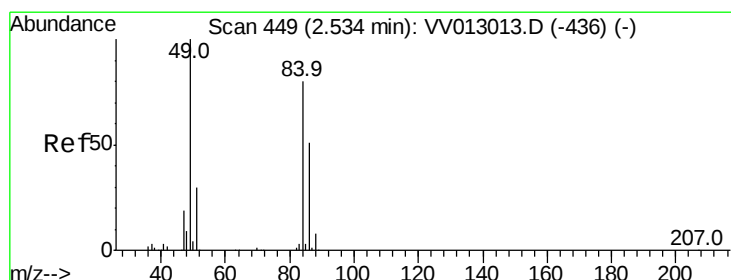
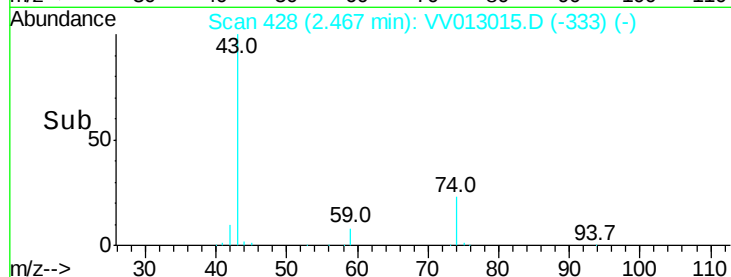
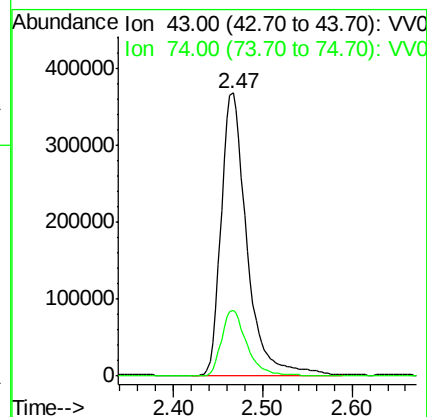
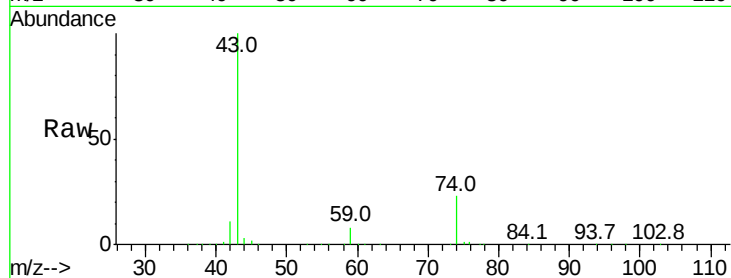




#15
Methyl Acetate
Concen: 107.959 ug/L
RT: 2.47 min Scan# 428
Delta R.T. 0.01 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

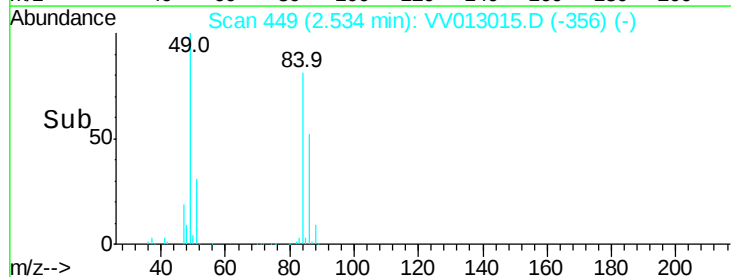
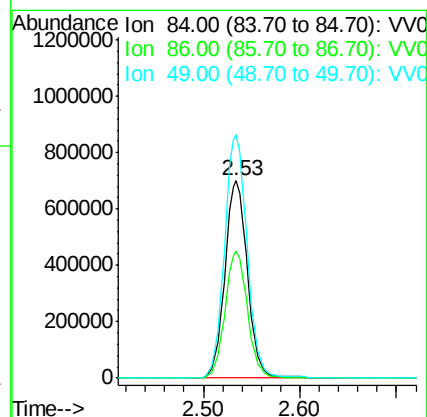
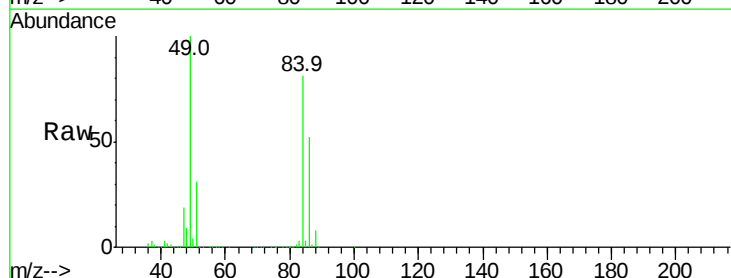
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

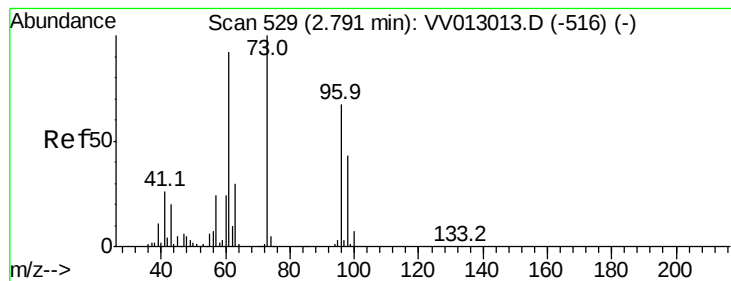
Tgt Ion: 43 Resp: 733531
Ion Ratio Lower Upper
43 100
74 23.1 18.5 27.7



#16
Methylene chloride
Concen: 83.507 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Tgt Ion: 84 Resp: 1131084
Ion Ratio Lower Upper
84 100
86 64.4 44.5 82.7
49 123.6 87.5 162.5





#17

trans-1,2-Dichloroethene

Concen: 93.616 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampled :

VSTD10066

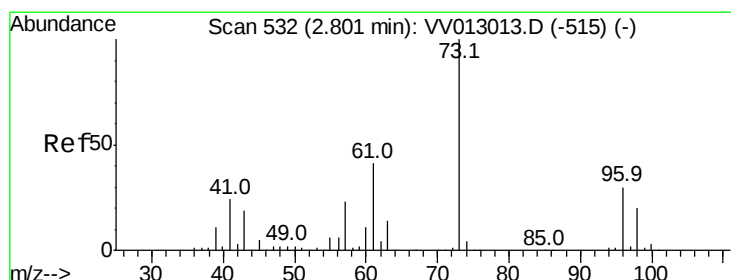
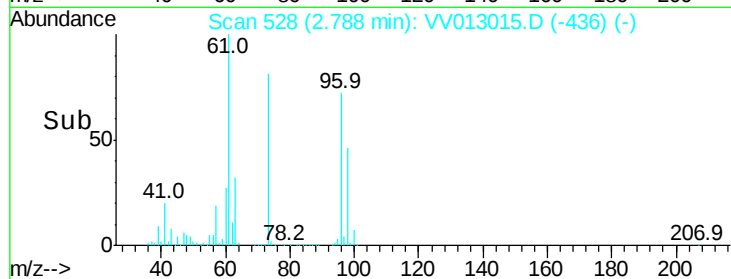
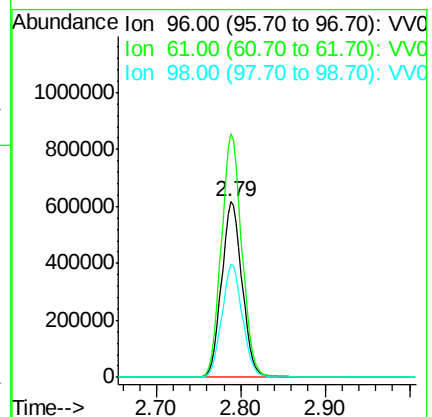
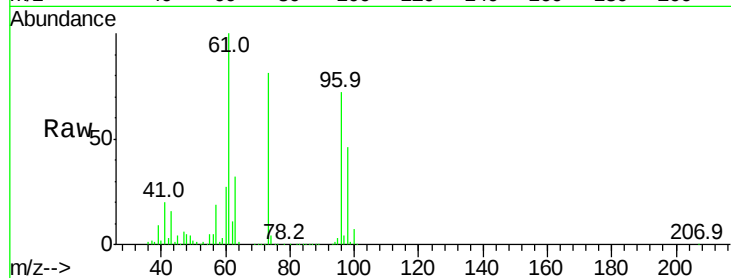
Tgt Ion: 96 Resp: 1045949

Ion Ratio Lower Upper

96 100

61 139.0 95.8 177.8

98 64.4 45.1 83.7



#18

Methyl tert-butyl Ether

Concen: 101.117 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

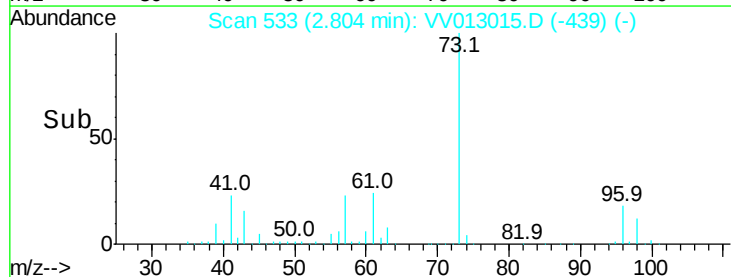
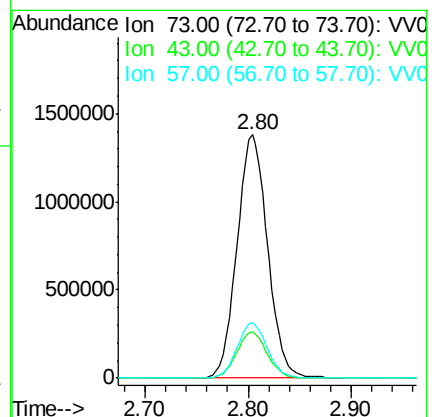
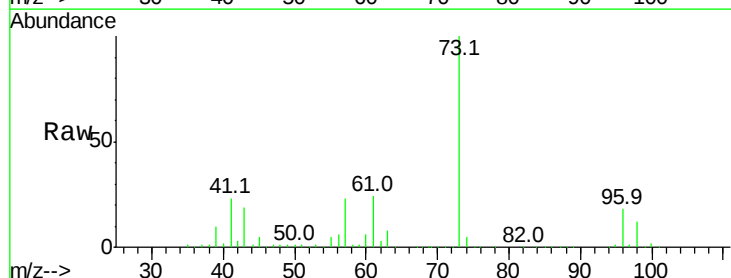
Tgt Ion: 73 Resp: 2841856

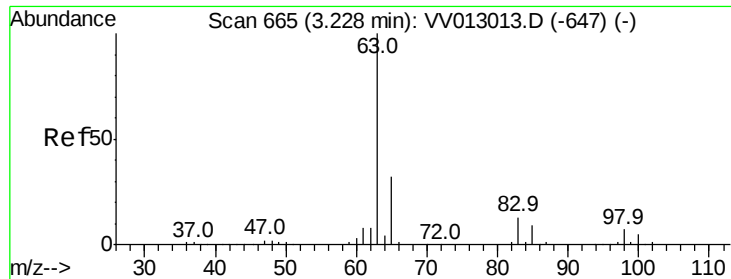
Ion Ratio Lower Upper

73 100

43 18.8 15.1 22.7

57 22.6 18.1 27.1

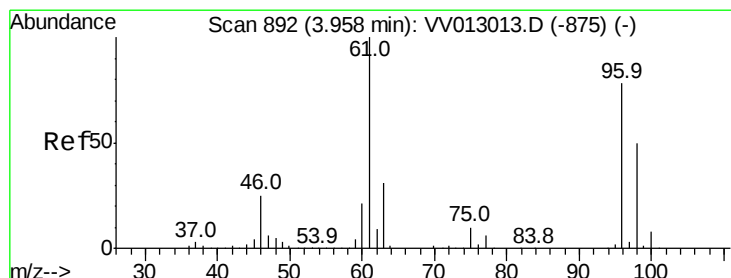
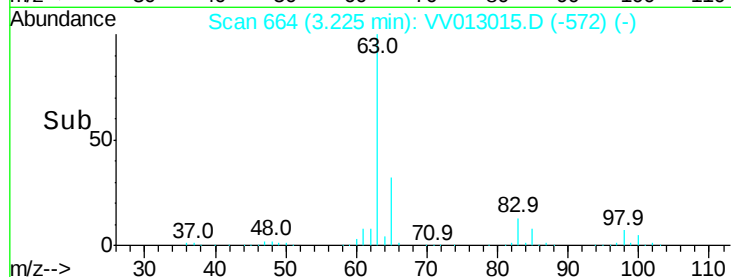
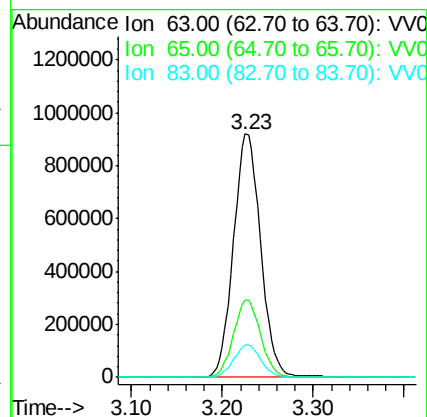
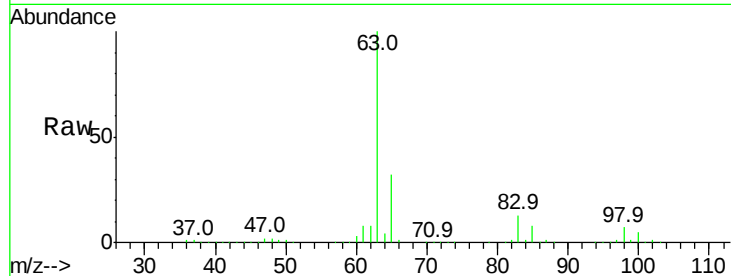




#19
 1,1-Dichloroethane
 Concen: 93.339 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

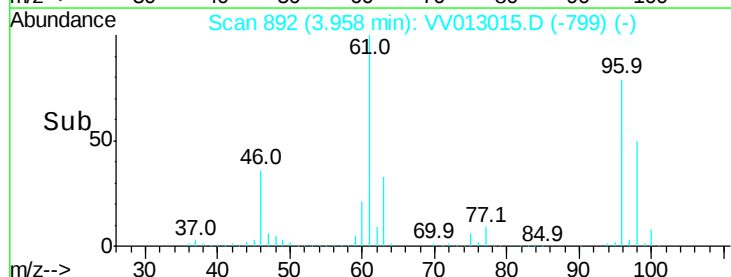
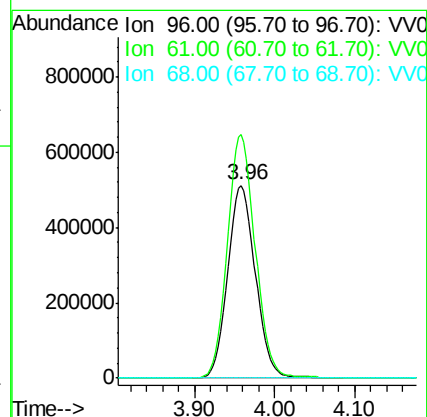
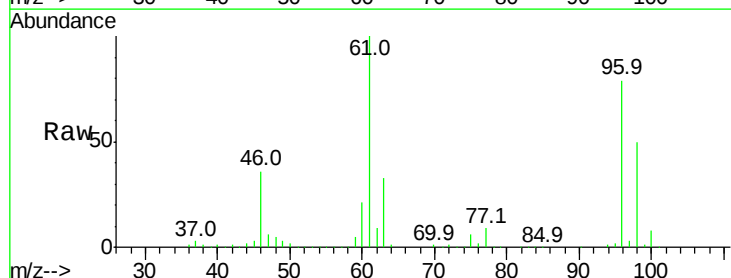
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

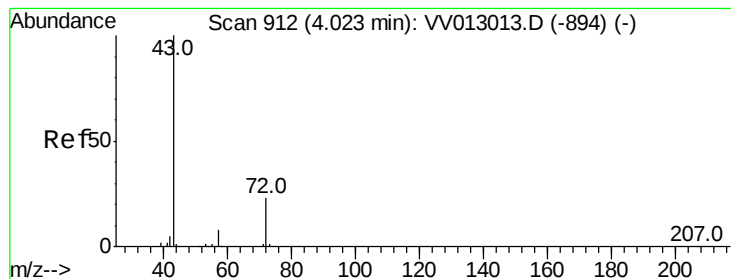
Tgt Ion: 63 Resp: 1913901
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.4 41.6
 83 13.2 9.0 16.6



#20
 cis-1,2-Dichloroethene
 Concen: 97.770 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

Tgt Ion: 96 Resp: 1214919
 Ion Ratio Lower Upper
 96 100
 61 126.5 89.5 166.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 284.718 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

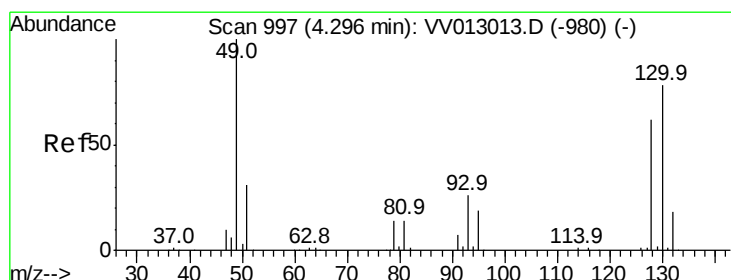
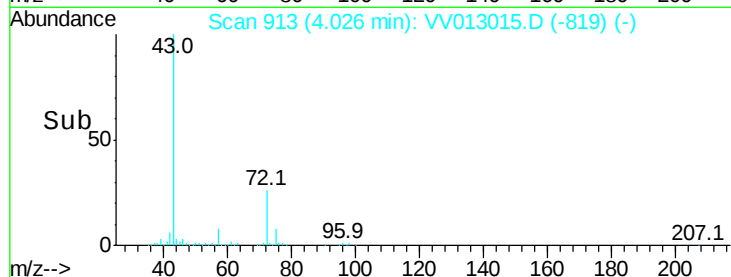
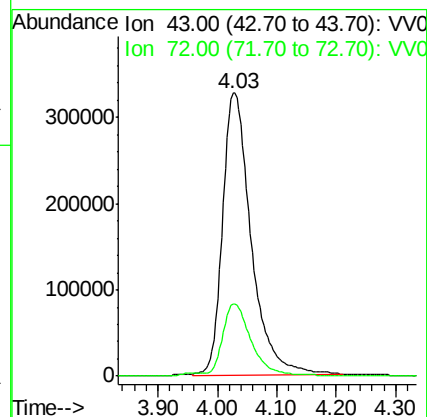
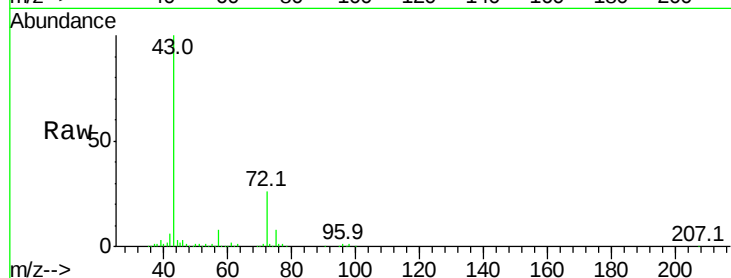
VSTD10066

Tgt Ion: 43 Resp: 1085052

Ion Ratio Lower Upper

43 100

72 25.0 12.0 36.1



#23

Bromochloromethane

Concen: 95.031 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Tgt Ion: 128 Resp: 578937

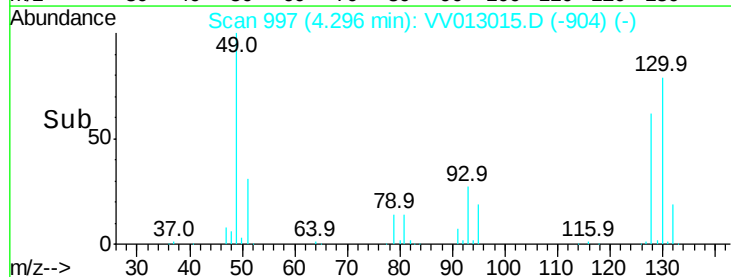
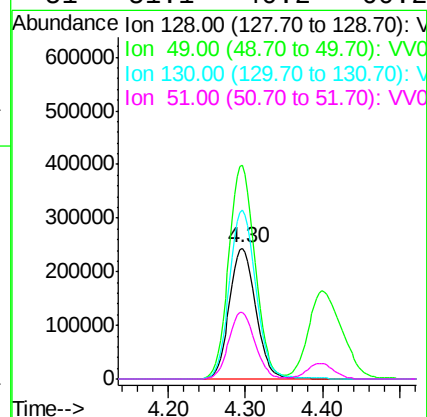
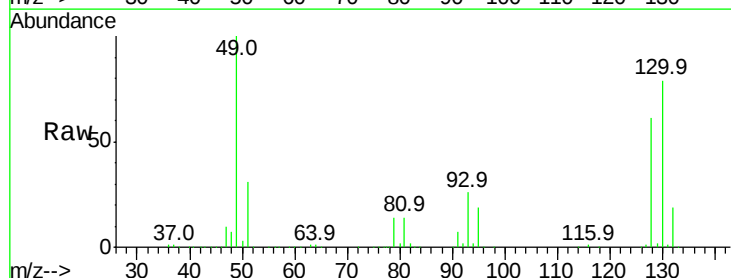
Ion Ratio Lower Upper

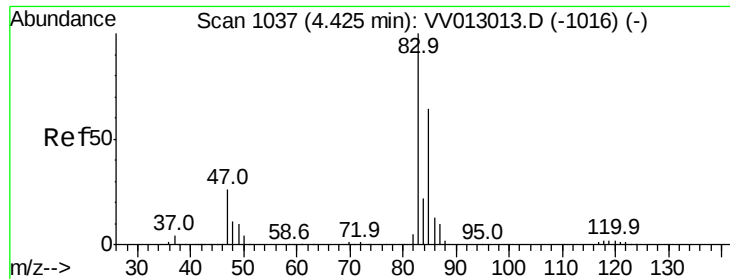
128 100

49 163.3 113.6 211.0

130 128.9 88.0 163.4

51 51.1 40.2 60.2

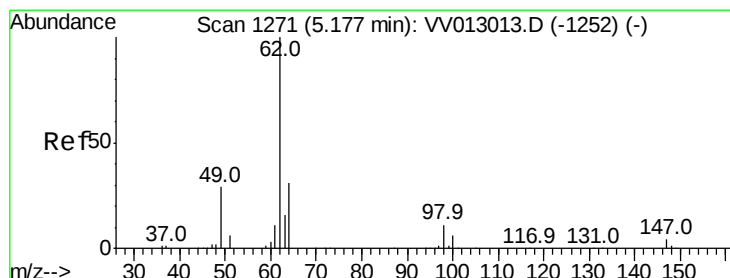
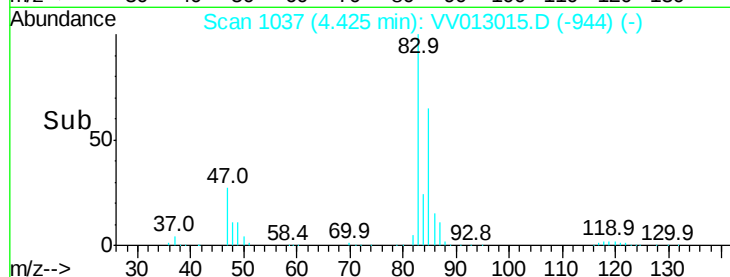
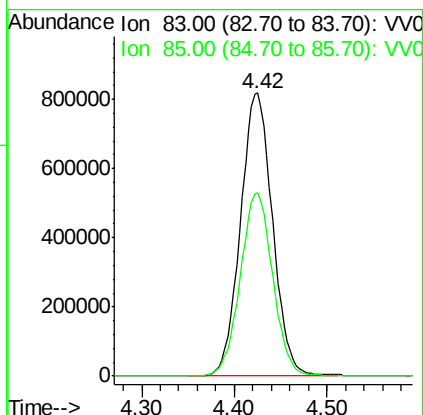
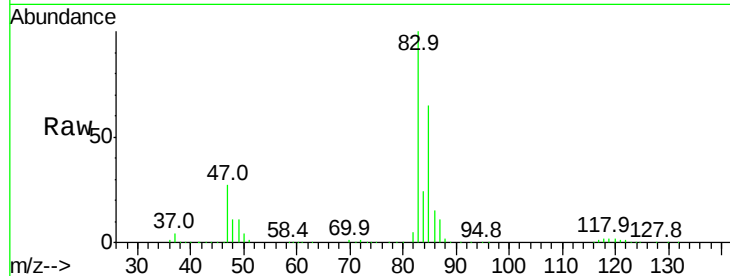




#25
Chloroform
Concen: 91.766 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

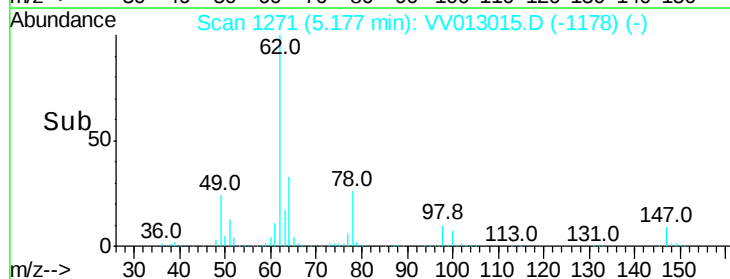
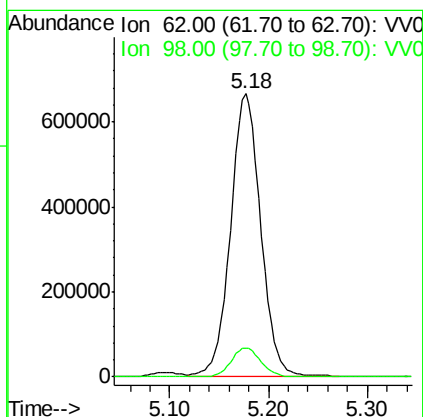
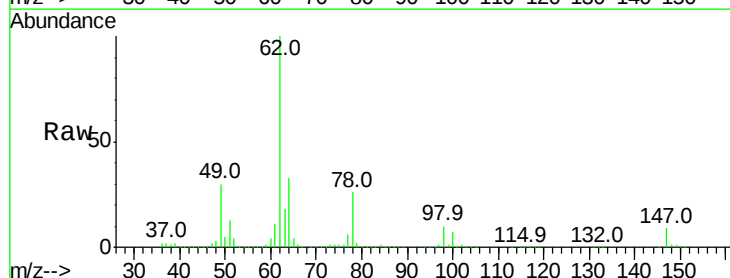
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

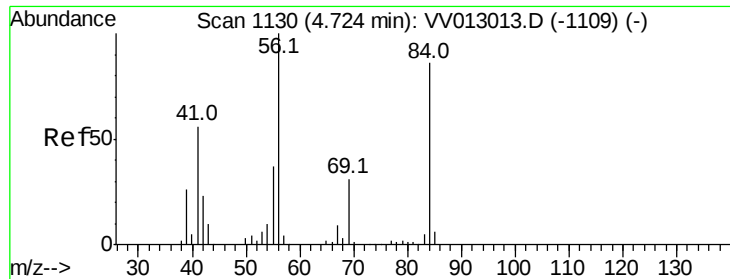
Tgt Ion: 83 Resp: 1961784
Ion Ratio Lower Upper
83 100
85 65.0 44.7 82.9



#27
1,2-Dichloroethane
Concen: 95.892 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Tgt Ion: 62 Resp: 1409224
Ion Ratio Lower Upper
62 100
98 10.3 8.5 12.7

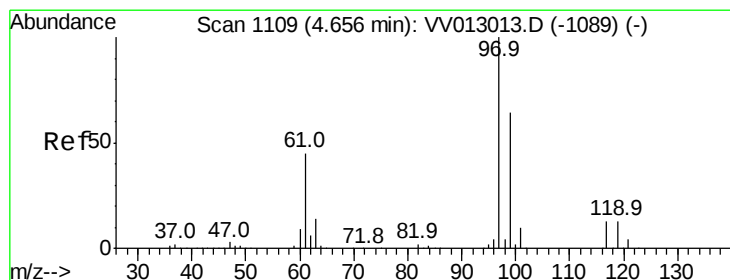
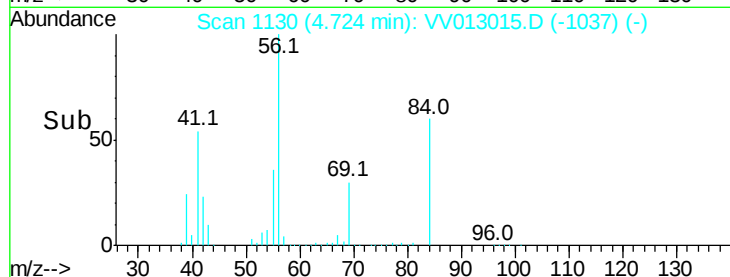
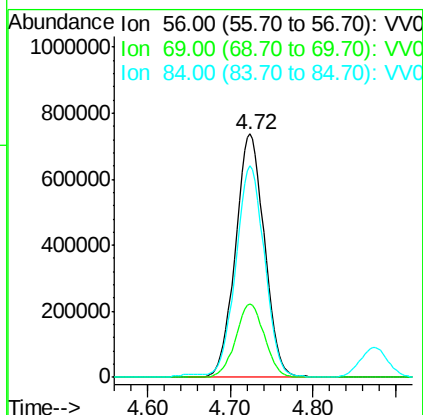
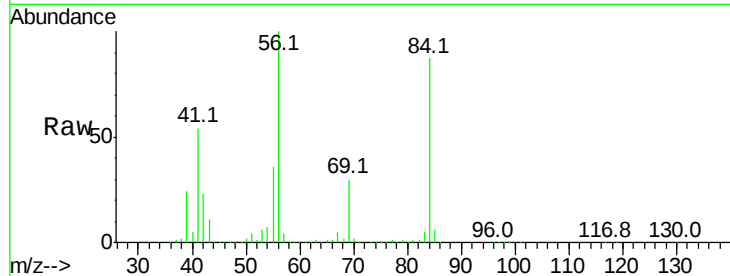




#29
Cyclohexane
Concen: 99.008 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

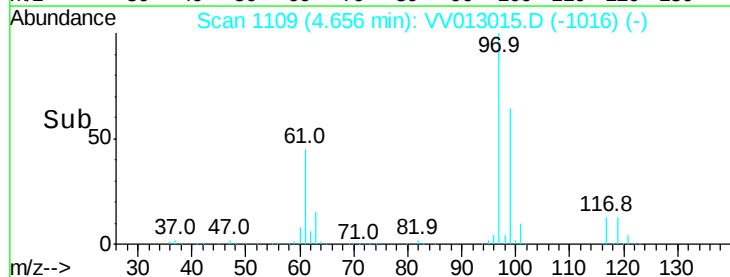
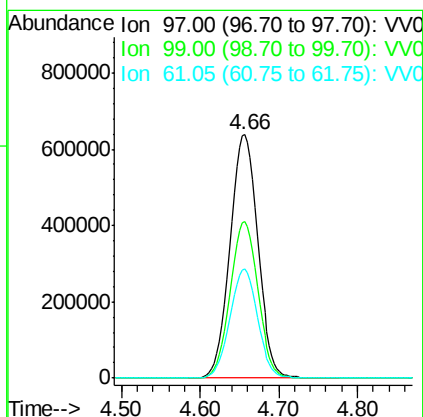
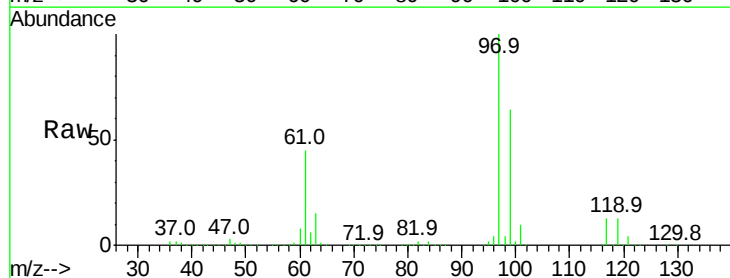
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

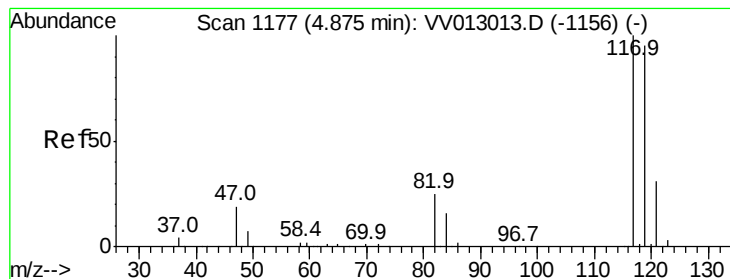
Tgt Ion: 56 Resp: 1790288
Ion Ratio Lower Upper
56 100
69 30.0 24.2 36.4
84 86.5 69.6 104.4



#30
1,1,1-Trichloroethane
Concen: 93.878 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Tgt Ion: 97 Resp: 1575002
Ion Ratio Lower Upper
97 100
99 64.1 51.7 77.5
61 44.6 36.1 54.1





#31

Carbon tetrachloride

Concen: 93.527 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

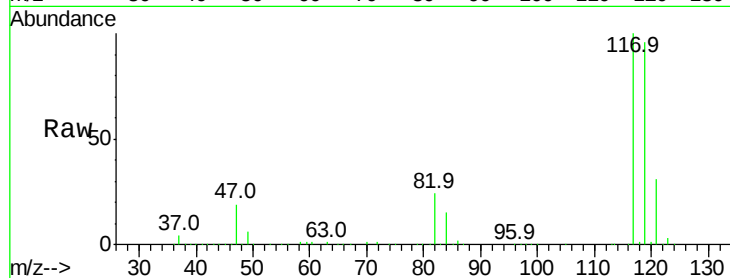
VSTD10066

Tgt Ion:117 Resp: 1412500

Ion Ratio Lower Upper

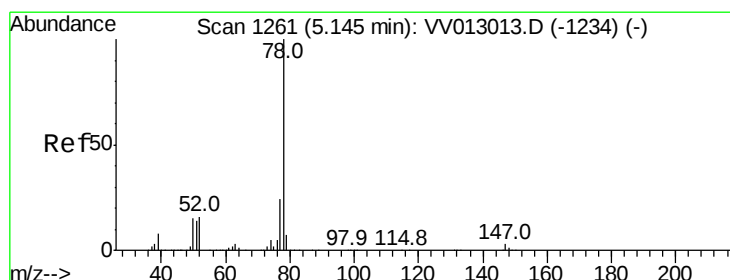
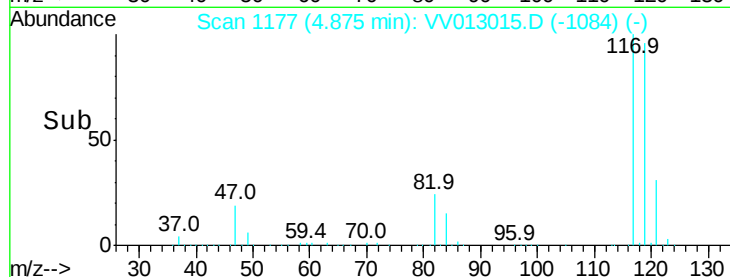
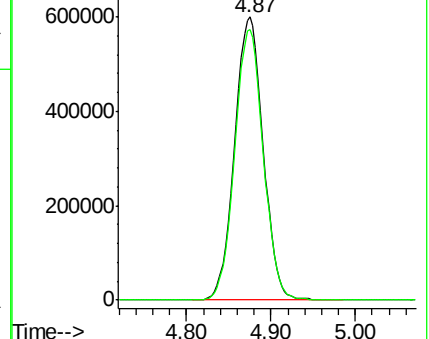
117 100

119 95.7 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 93.863 ug/L

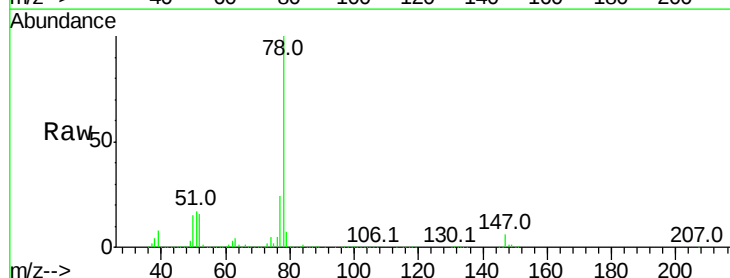
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

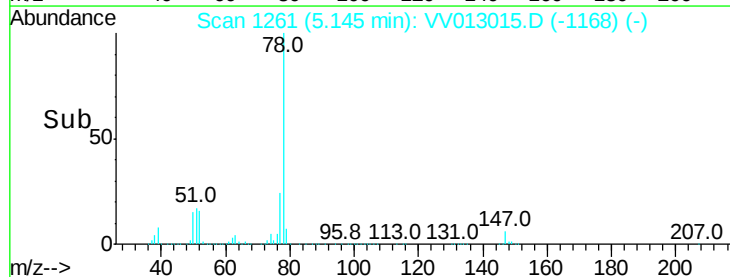
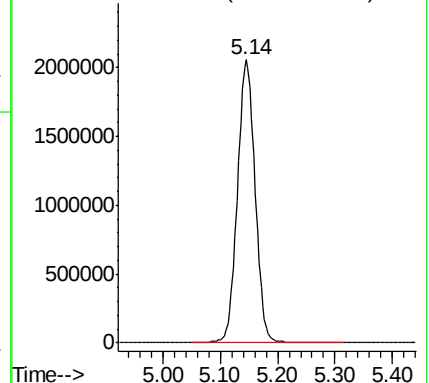
Lab File: VV013015.D

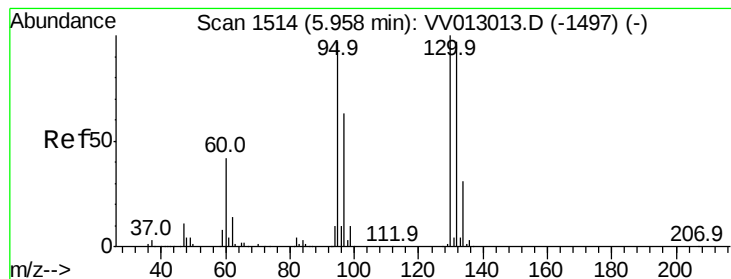
Acq: 30 Sep 2019 12:53

Tgt Ion: 78 Resp: 4407861



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 92.795 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

Tgt Ion: 95 Resp: 1180505

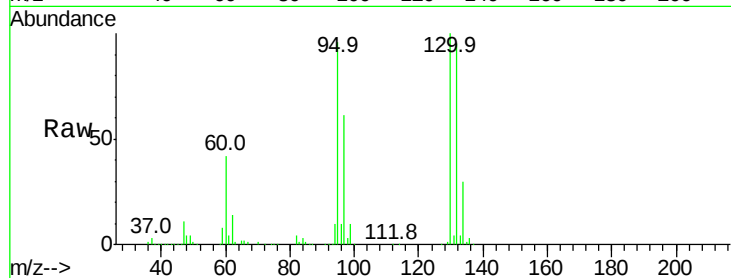
Ion Ratio Lower Upper

95 100

97 63.6 45.4 84.2

132 99.8 70.1 130.3

130 104.5 72.4 134.4

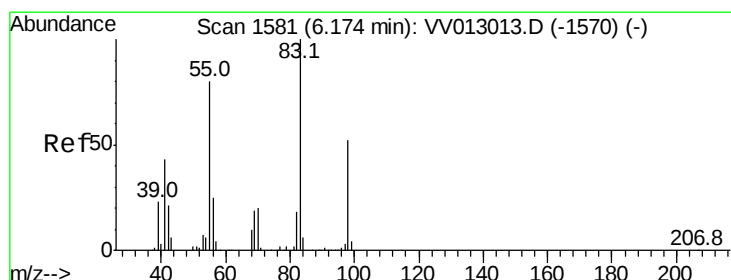
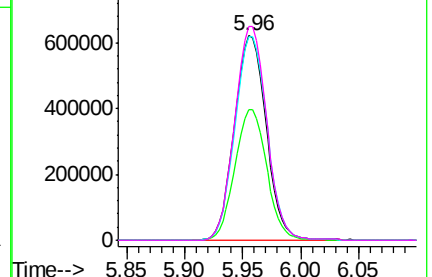
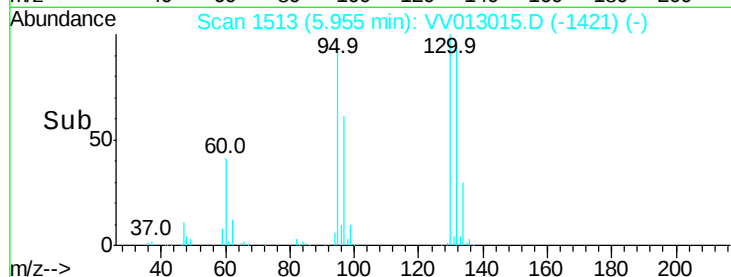


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 96.826 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

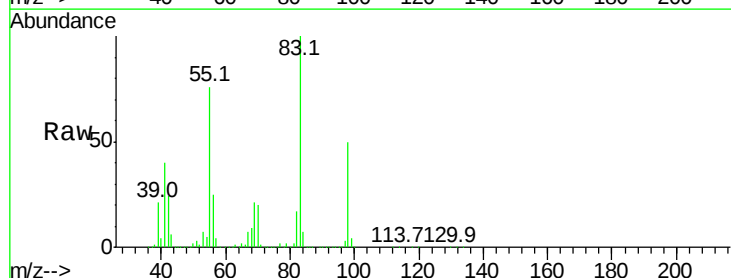
Tgt Ion: 83 Resp: 1933374

Ion Ratio Lower Upper

83 100

55 75.6 61.9 92.9

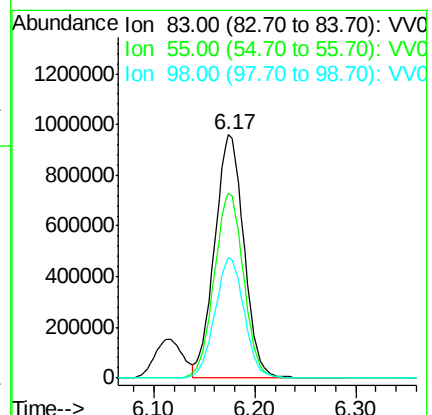
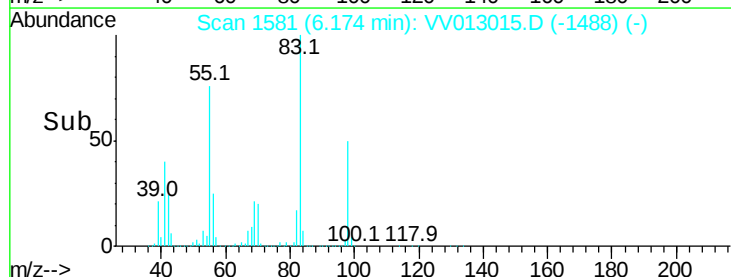
98 49.2 40.0 60.0

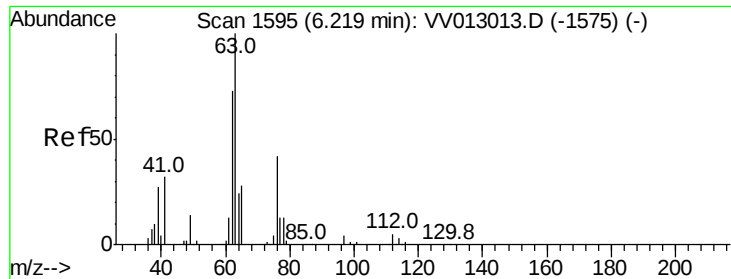


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

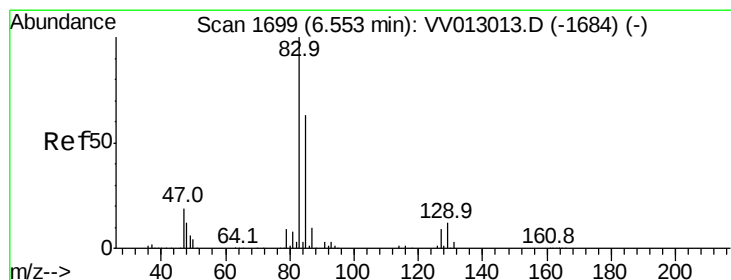
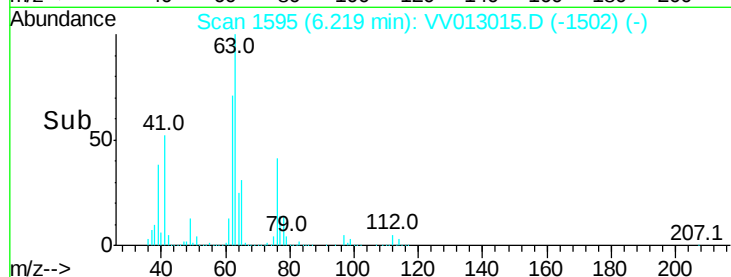
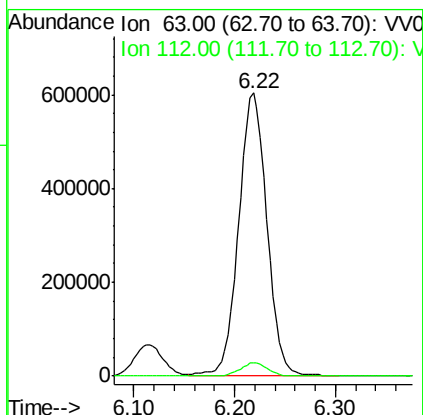
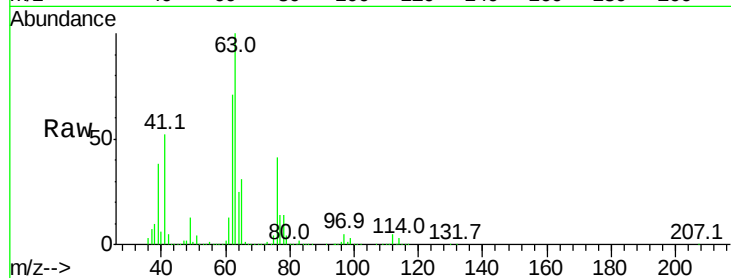




#37
 1,2-Dichloropropane
 Concen: 96.483 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

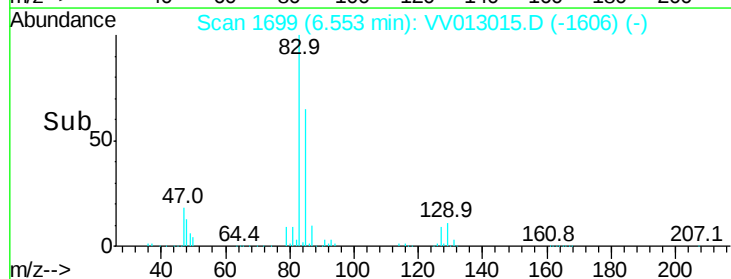
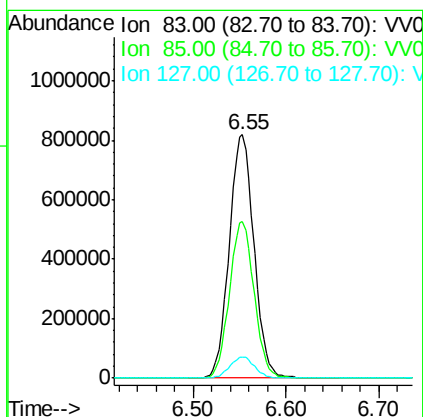
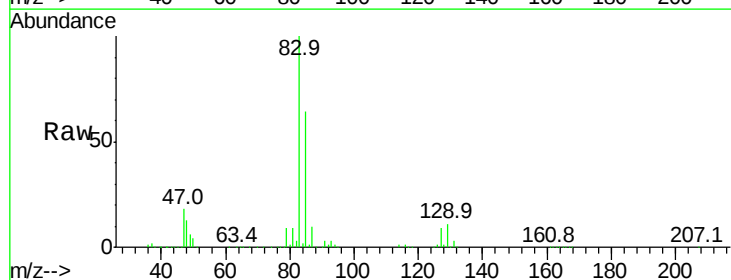
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

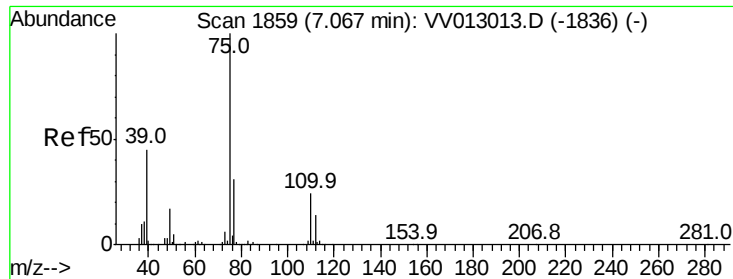
Tgt Ion: 63 Resp: 1162562
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.8



#38
 Bromodichloromethane
 Concen: 96.167 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

Tgt Ion: 83 Resp: 1512598
 Ion Ratio Lower Upper
 83 100
 85 64.4 43.9 81.5
 127 8.8 7.0 10.6



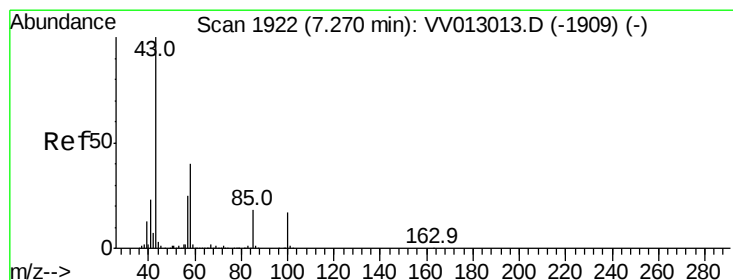
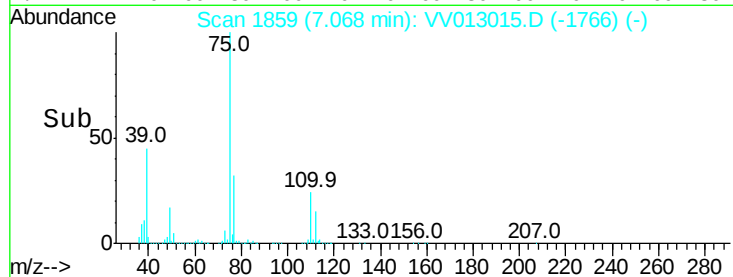
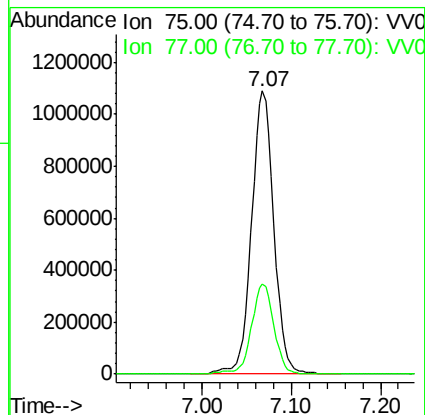
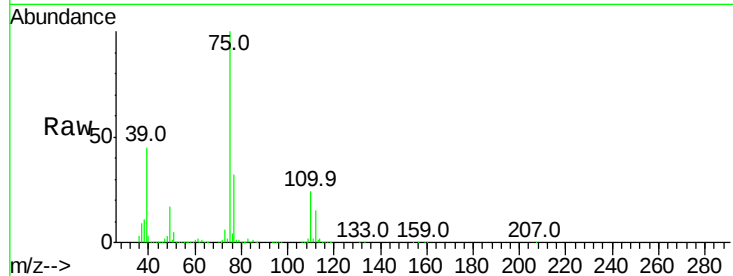


#39

cis-1,3-Dichloropropene
Concen: 104.603 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

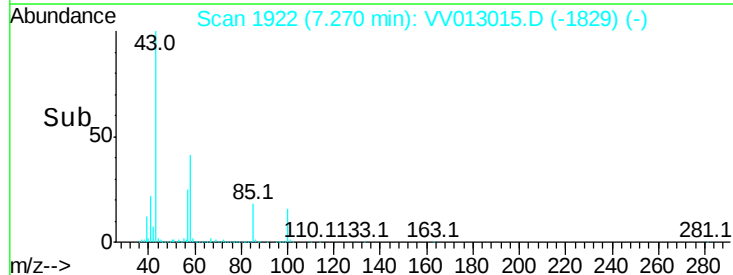
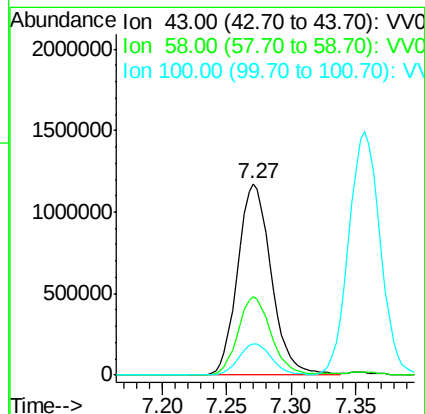
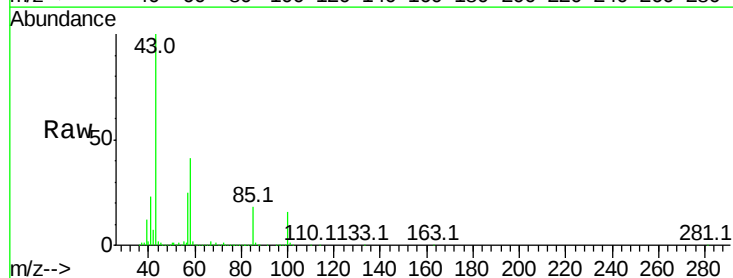
Tgt Ion: 75 Resp: 1897826
Ion Ratio Lower Upper
75 100
77 32.0 21.8 40.4

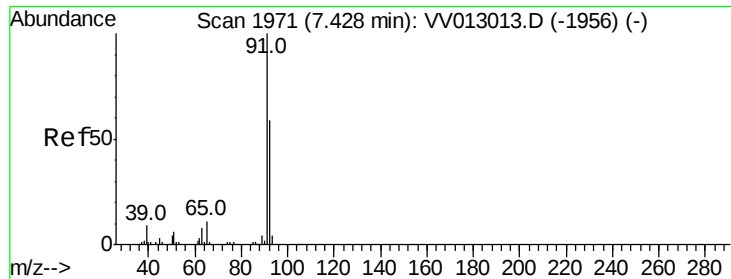


#40

4-Methyl-2-pentanone
Concen: 221.431 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Tgt Ion: 43 Resp: 2132420
Ion Ratio Lower Upper
43 100
58 40.4 31.8 47.8
100 16.2 12.8 19.2





#42

Toluene

Concen: 95.187 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

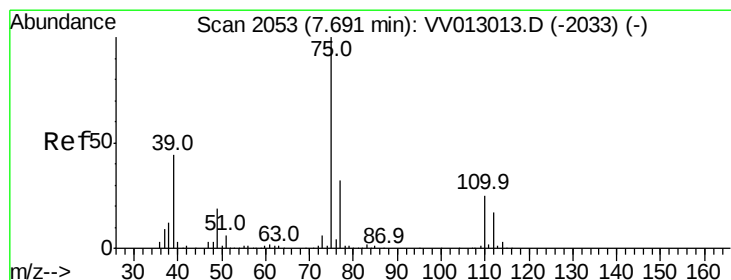
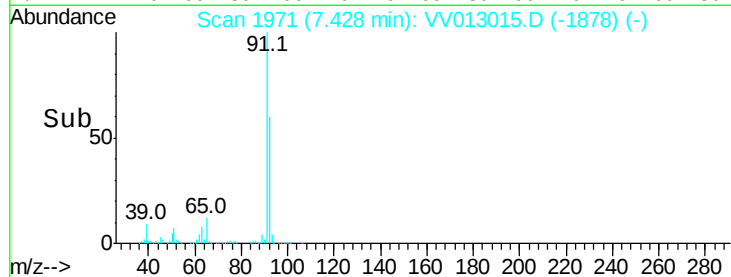
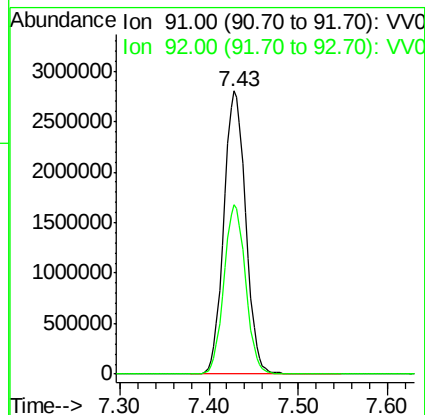
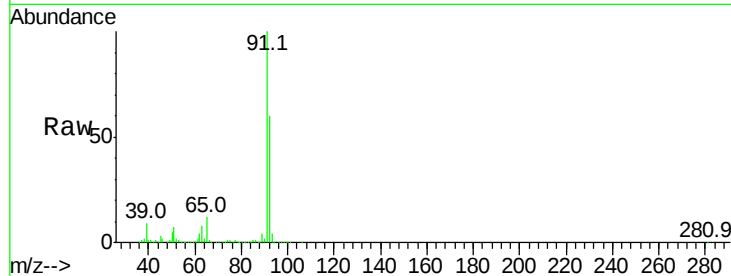
VSTD10066

Tgt Ion: 91 Resp: 4754128

Ion Ratio Lower Upper

91 100

92 60.0 41.1 76.3



#44

trans-1,3-Dichloropropene

Concen: 107.268 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013015.D

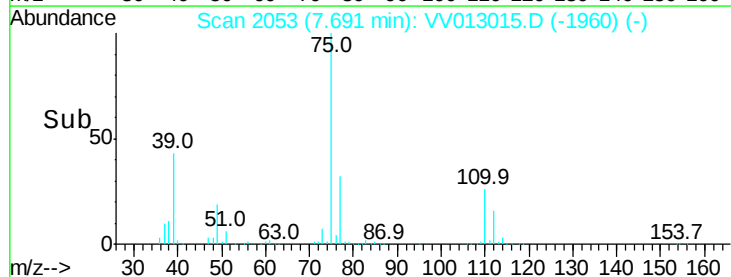
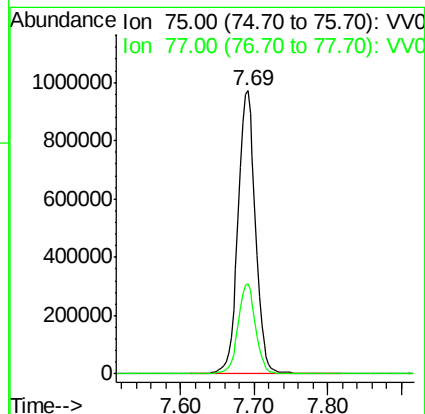
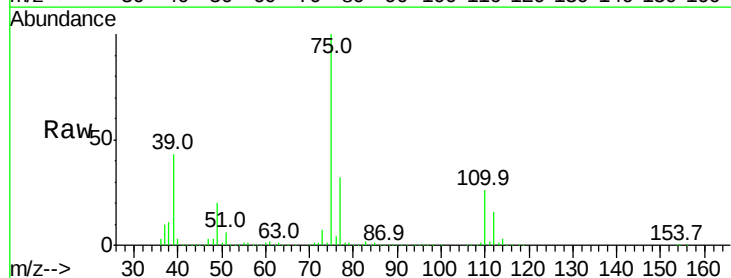
Acq: 30 Sep 2019 12:53

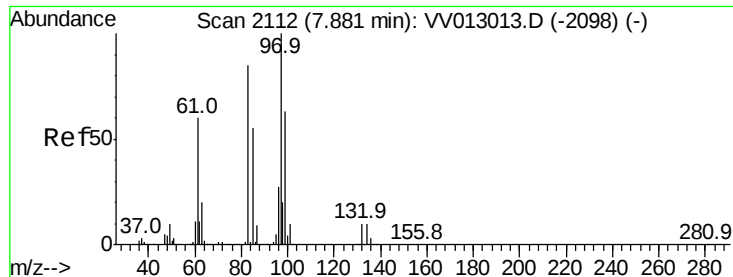
Tgt Ion: 75 Resp: 1597994

Ion Ratio Lower Upper

75 100

77 32.0 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 96.545 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

Tgt Ion: 97 Resp: 986838

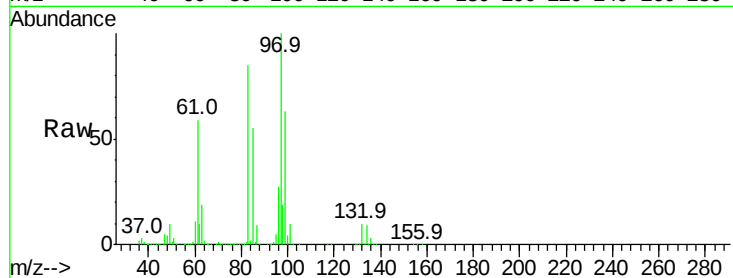
Ion Ratio Lower Upper

97 100

99 62.9 44.2 82.2

83 84.9 59.7 110.9

85 55.0 38.6 71.6

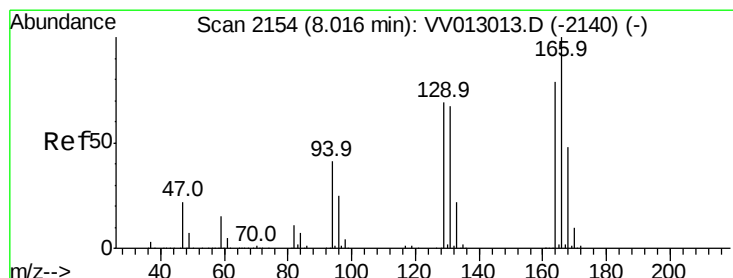
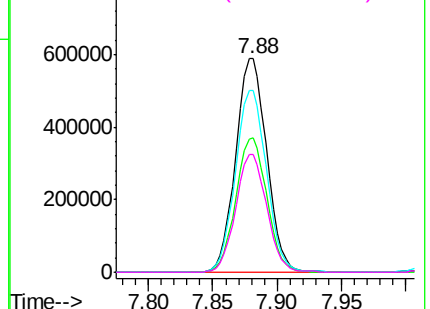
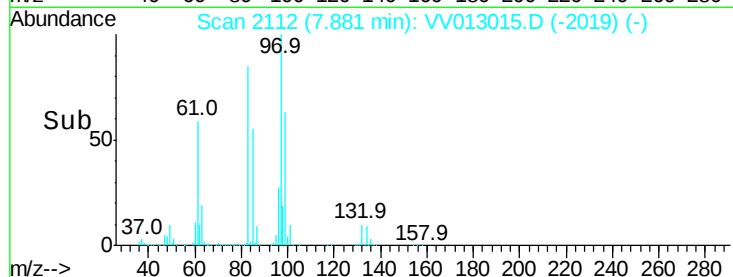


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 92.049 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Tgt Ion: 164 Resp: 968898

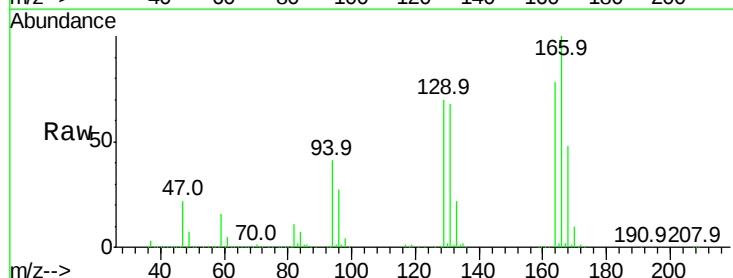
Ion Ratio Lower Upper

164 100

129 89.7 61.2 113.6

131 87.4 59.9 111.3

166 129.0 89.1 165.5

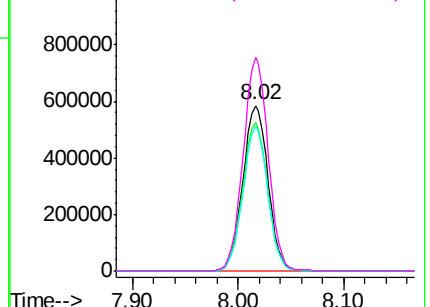
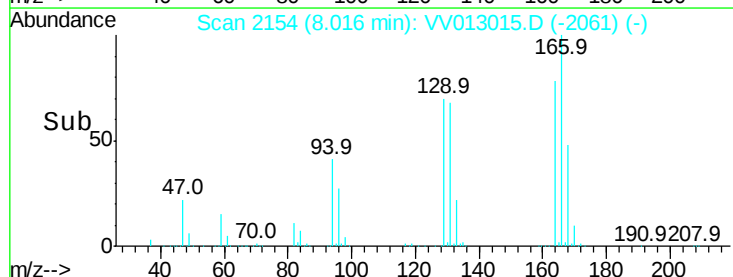


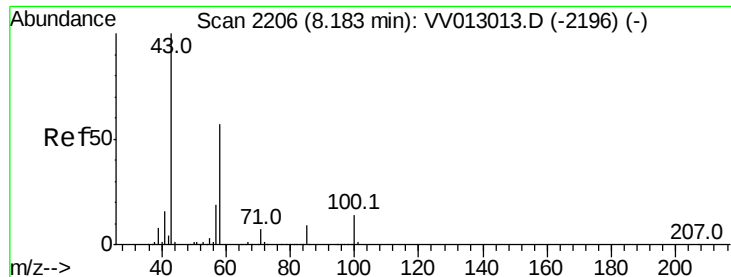
Abundance Ion 164.00 (163.70 to 164.70): V

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



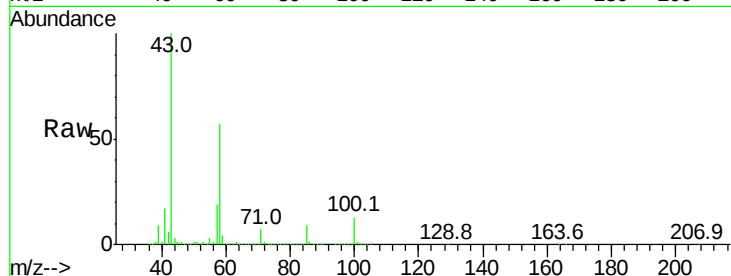


#48
2-Hexanone
Concen: 230.986 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

Tgt Ion: 43 Resp: 1619724

Ion	Ratio	Lower	Upper
43	100		
58	56.2	44.9	67.3
57	19.0	15.2	22.8
100	13.0	10.5	15.7



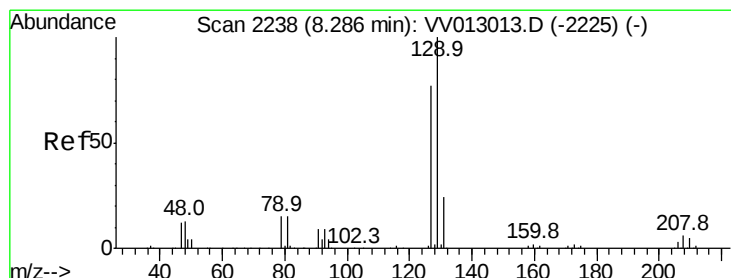
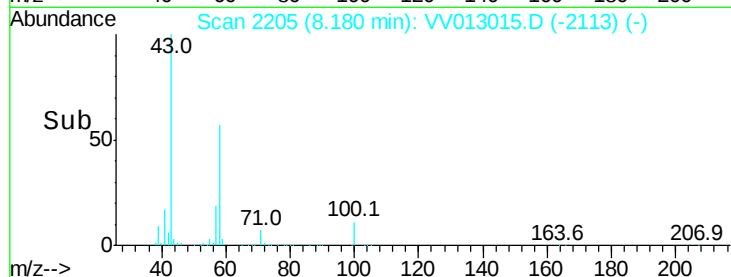
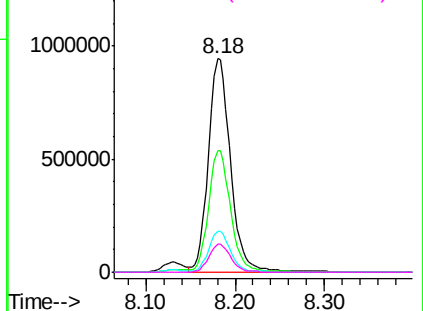
Abundance

Ion 43.00 (42.70 to 43.70): VV013015.D (-2113) (-)

Ion 58.00 (57.70 to 58.70): VV013015.D (-2113) (-)

Ion 57.00 (56.70 to 57.70): VV013015.D (-2113) (-)

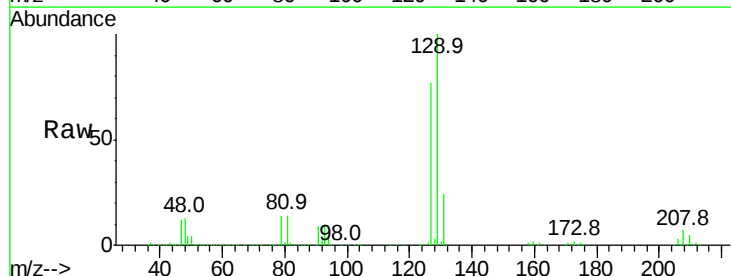
Ion 100.00 (99.70 to 100.70): VV013015.D (-2113) (-)



#49
Dibromochloromethane
Concen: 101.980 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Tgt Ion: 129 Resp: 1188648

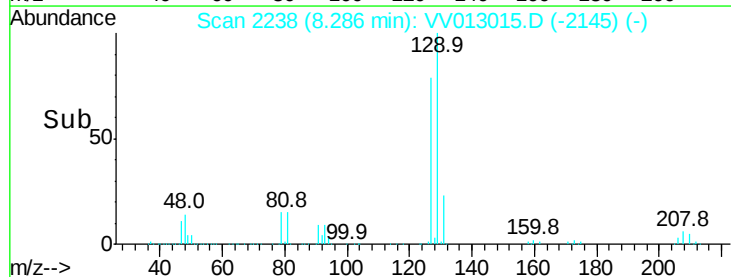
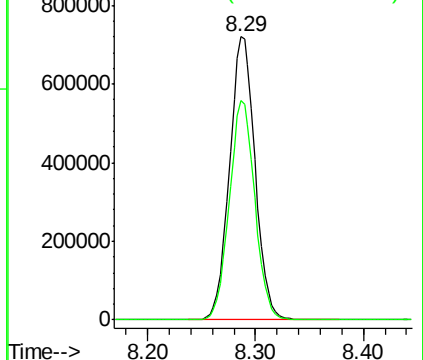
Ion	Ratio	Lower	Upper
129	100		
127	77.4	53.9	100.1

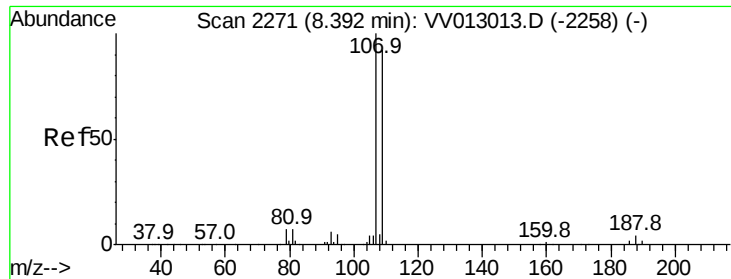


Abundance

Ion 129.00 (128.70 to 129.70): VV013015.D (-2145) (-)

Ion 127.00 (126.70 to 127.70): VV013015.D (-2145) (-)

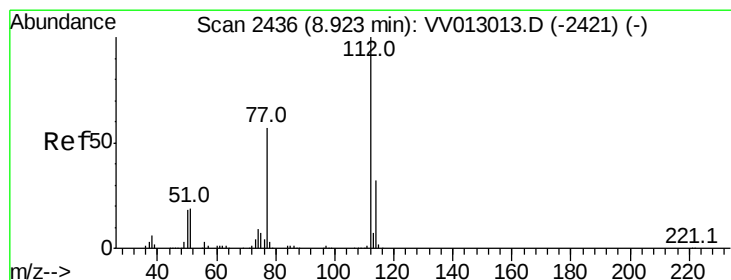
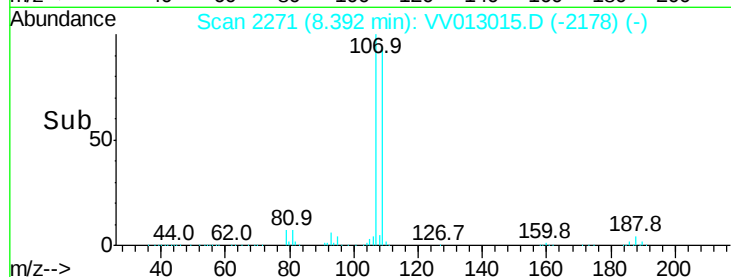
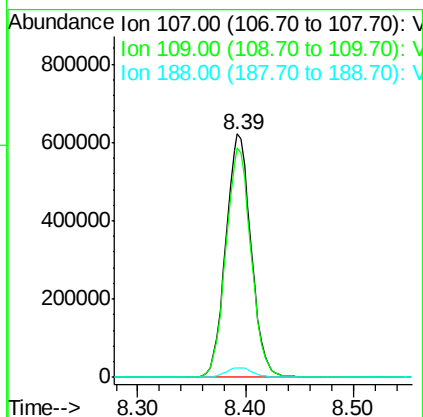
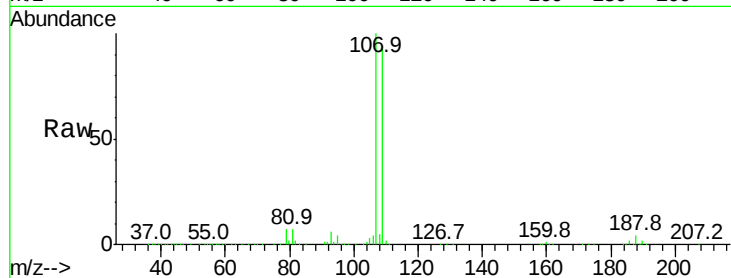




#50
1,2-Dibromoethane
Concen: 100.531 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

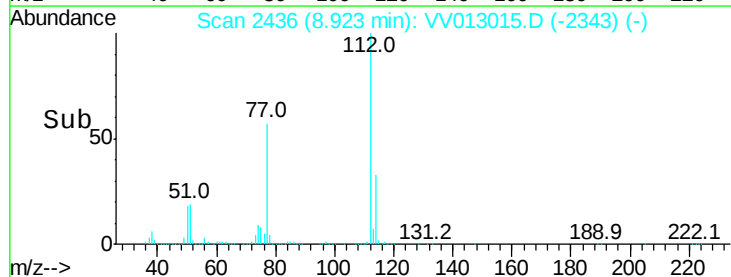
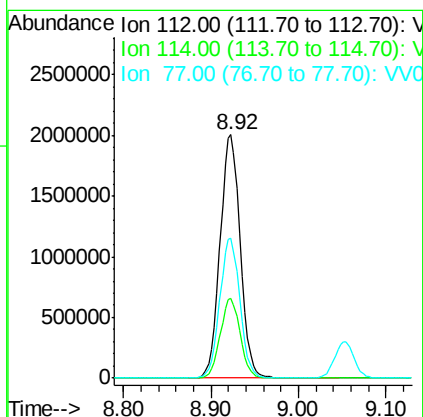
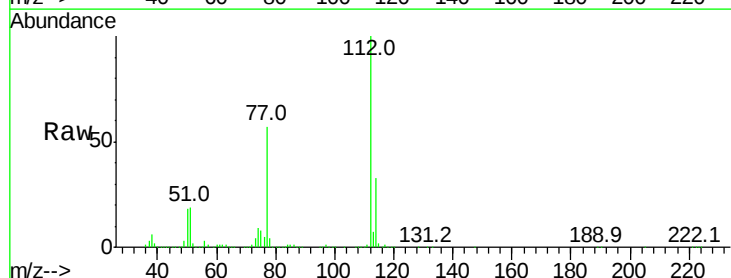
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

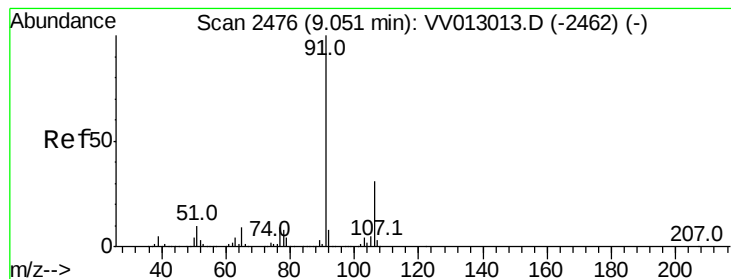
Tgt Ion:107 Resp: 1013746
Ion Ratio Lower Upper
107 100
109 94.3 64.7 120.1
188 4.0 3.7 5.5



#51
Chlorobenzene
Concen: 94.535 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Tgt Ion:112 Resp: 3202596
Ion Ratio Lower Upper
112 100
114 32.6 22.7 42.1
77 57.3 45.9 68.9





#52

Ethylbenzene

Concen: 97.765 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

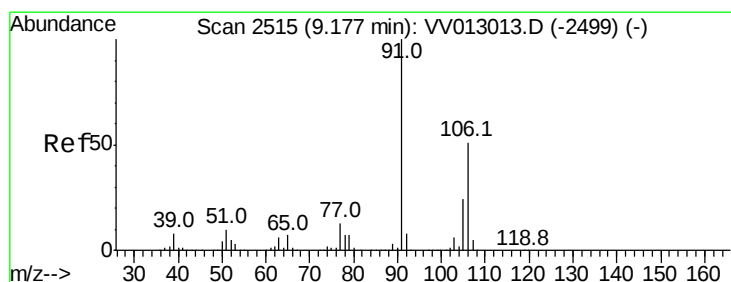
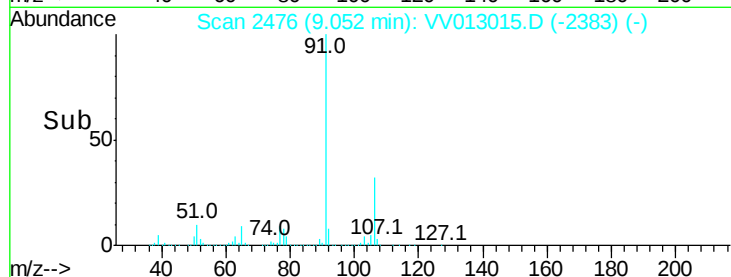
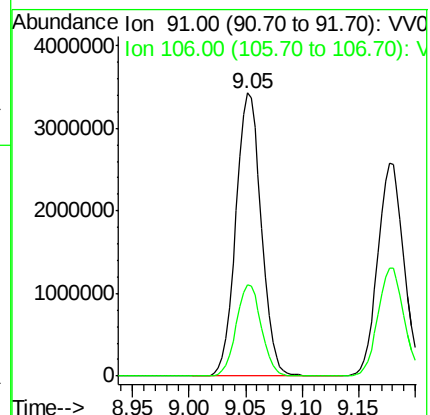
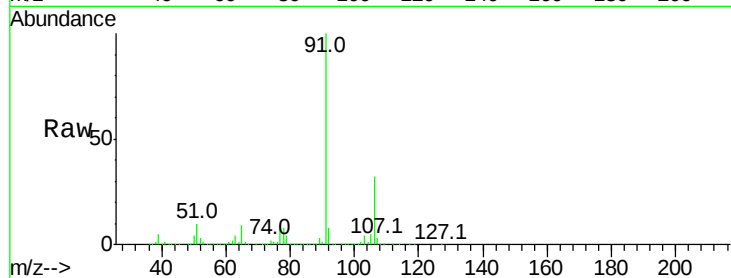
VSTD10066

Tgt Ion: 91 Resp: 5364088

Ion Ratio Lower Upper

91 100

106 32.2 21.8 40.4



#53

m,p-Xylene

Concen: 100.543 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013015.D

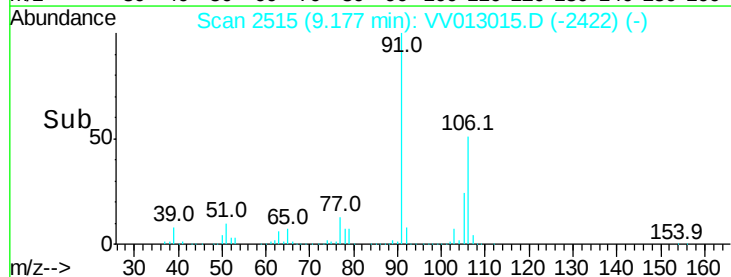
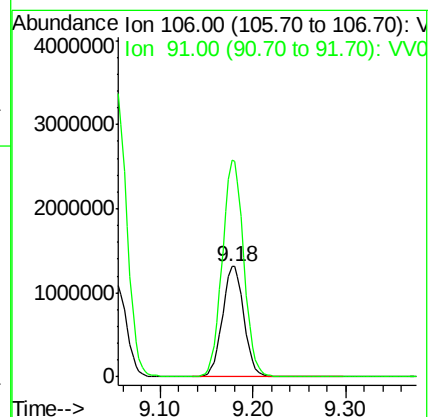
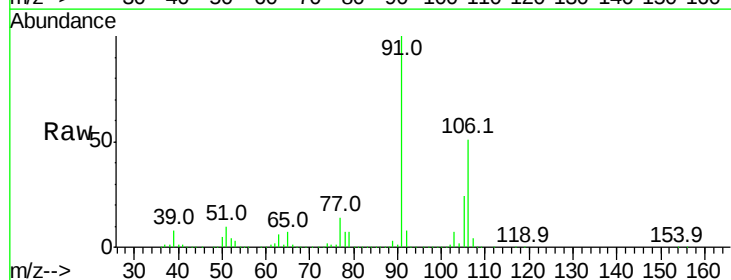
Acq: 30 Sep 2019 12:53

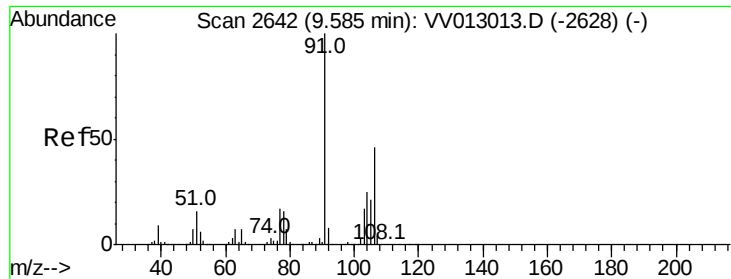
Tgt Ion: 106 Resp: 2108722

Ion Ratio Lower Upper

106 100

91 195.8 138.0 256.2

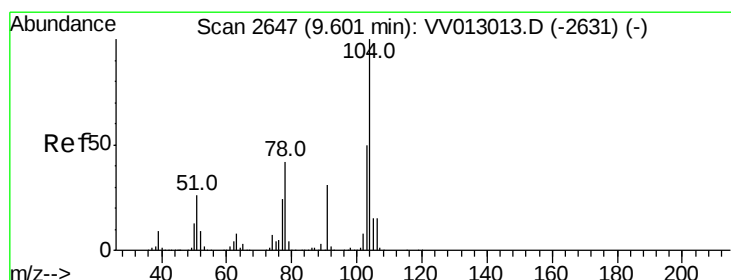
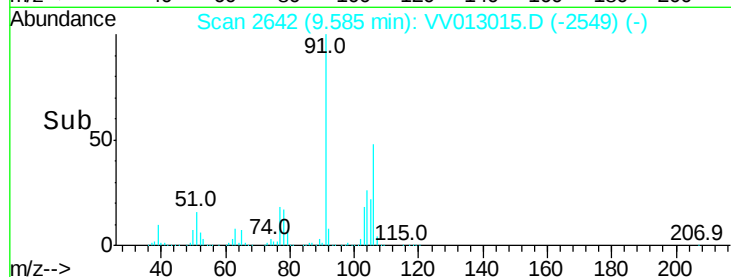
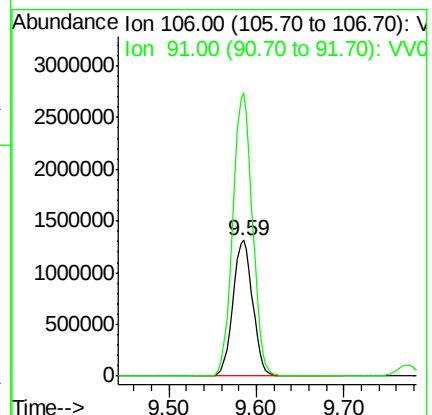
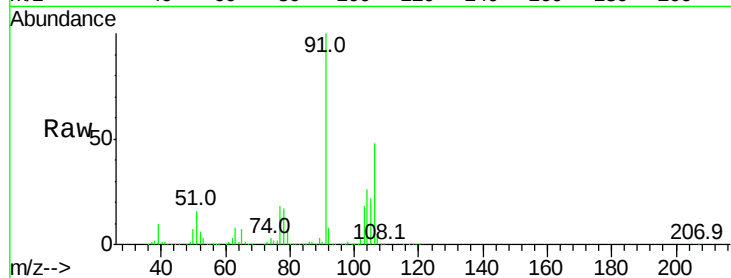




#54
o-Xylene
Concen: 102.260 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

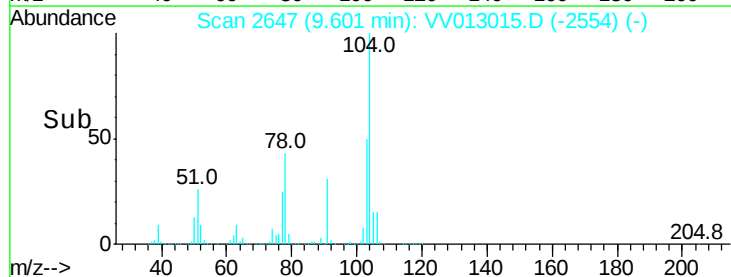
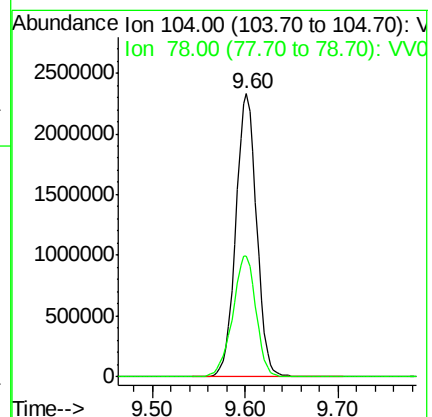
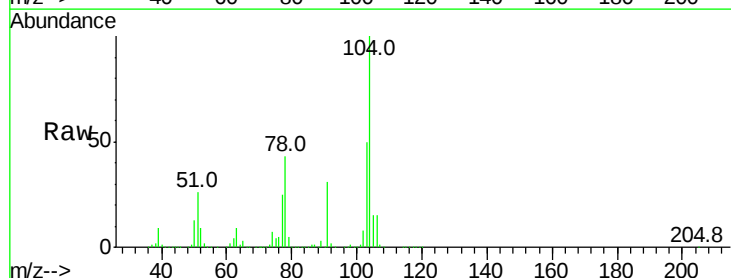
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

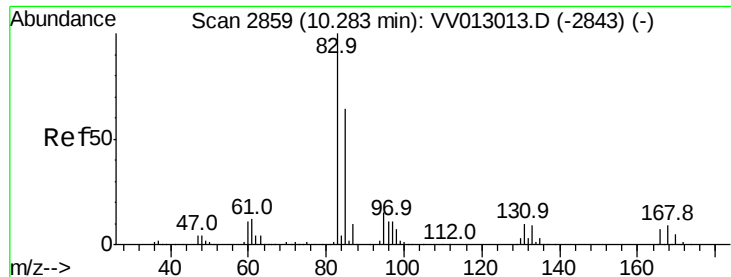
Tgt Ion:106 Resp: 2051911
Ion Ratio Lower Upper
106 100
91 208.1 150.8 280.1



#55
Styrene
Concen: 103.022 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV013015.D
Acq: 30 Sep 2019 12:53

Tgt Ion:104 Resp: 3619164
Ion Ratio Lower Upper
104 100
78 42.7 29.8 55.3

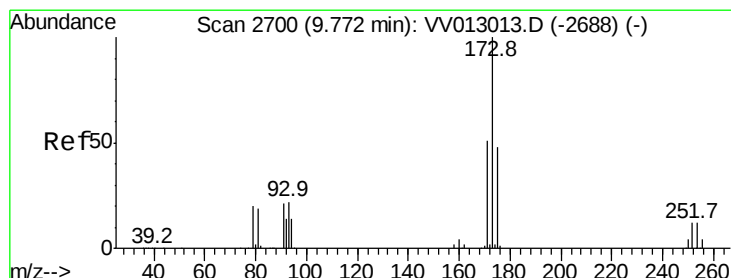
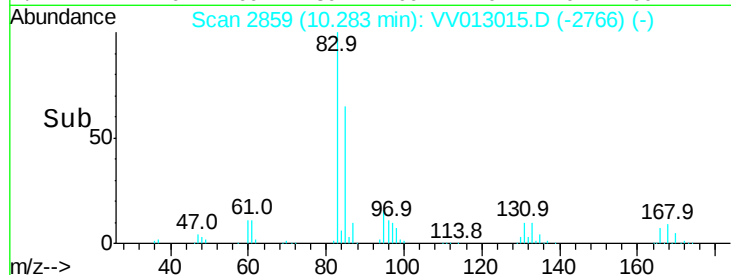
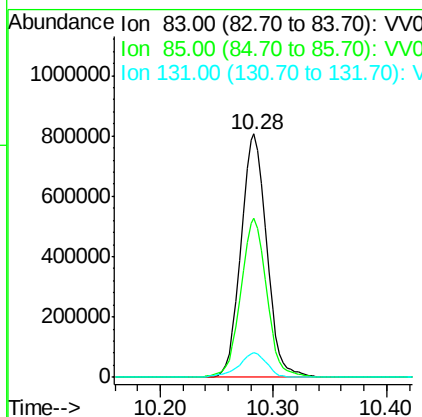
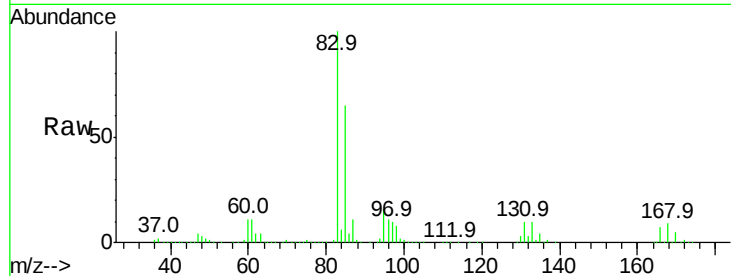




#57
 1,1,2,2-Tetrachloroethane
 Concen: 102.670 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

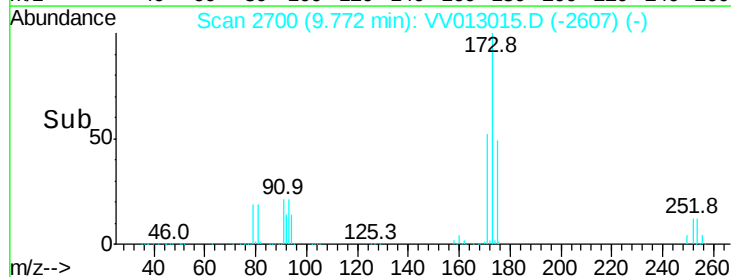
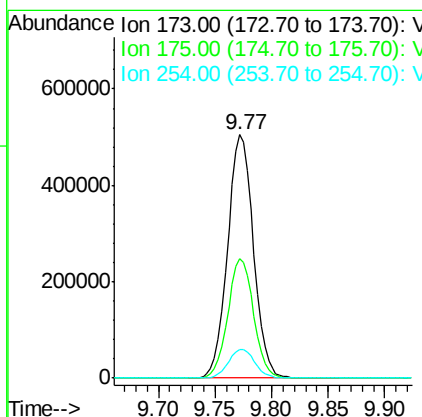
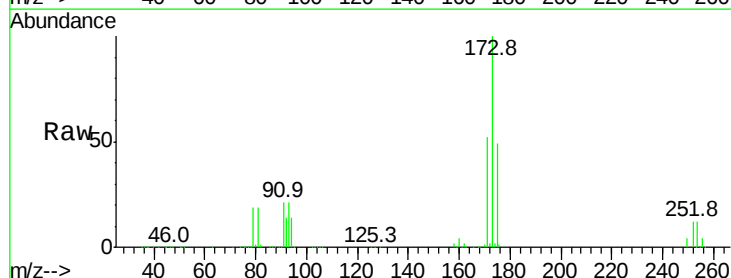
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

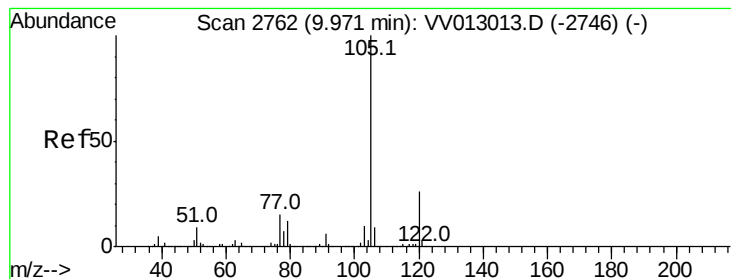
Tgt Ion: 83 Resp: 1279604
 Ion Ratio Lower Upper
 83 100
 85 65.2 44.5 82.7
 131 10.0 8.2 12.2



#59
 Bromoform
 Concen: 105.063 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

Tgt Ion: 173 Resp: 802668
 Ion Ratio Lower Upper
 173 100
 175 48.9 38.9 58.3
 254 12.1 9.4 14.0





#60

Isopropylbenzene

Concen: 97.940 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

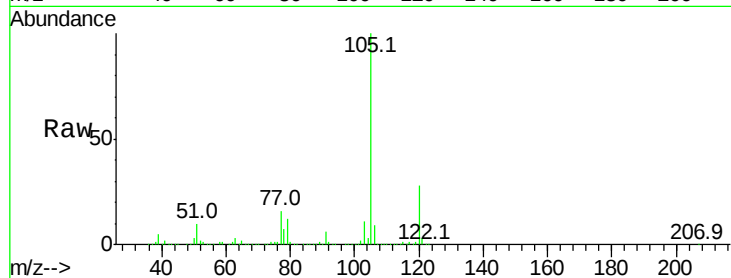
Tgt Ion:105 Resp: 5264873

Ion Ratio Lower Upper

105 100

120 27.4 21.1 31.7

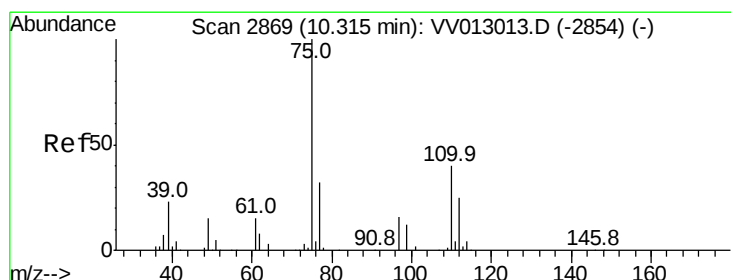
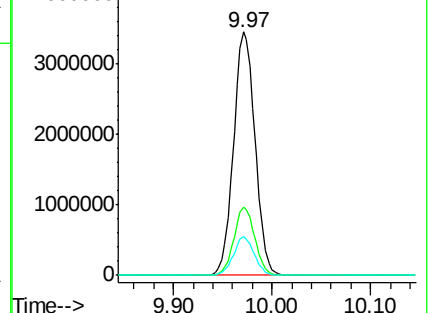
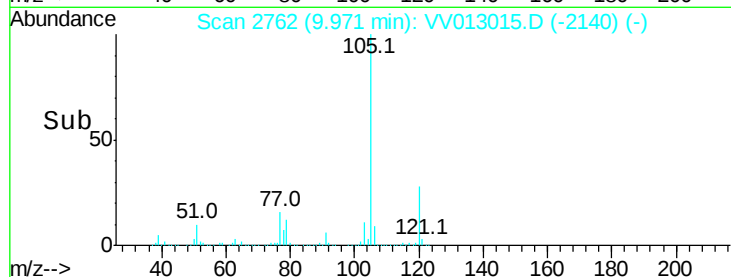
77 15.4 12.3 18.5



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: 99.517 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

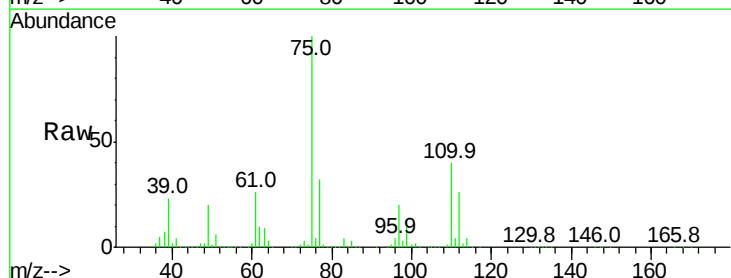
Tgt Ion: 75 Resp: 1010392

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2

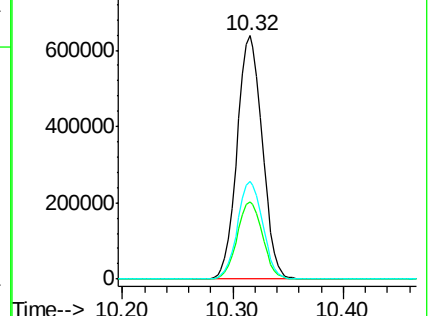
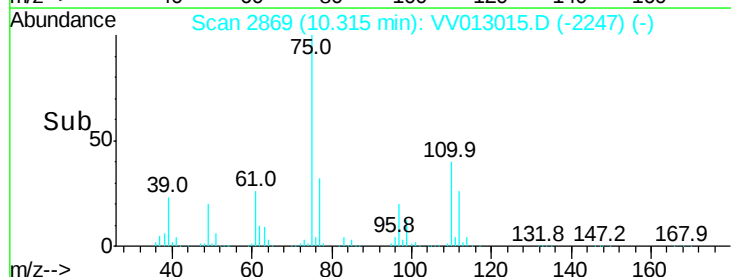
110 40.2 31.7 47.5

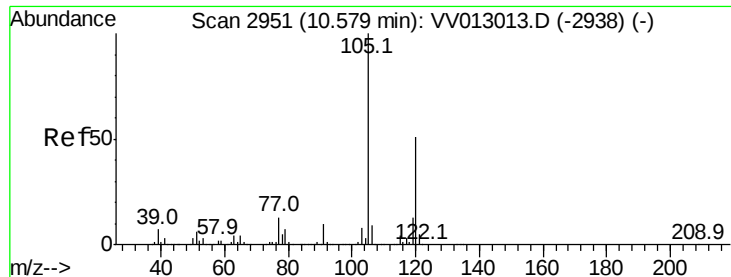


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 103.969 ug/L

RT: 10.58 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

MSVOA_V

ClientSampleId :

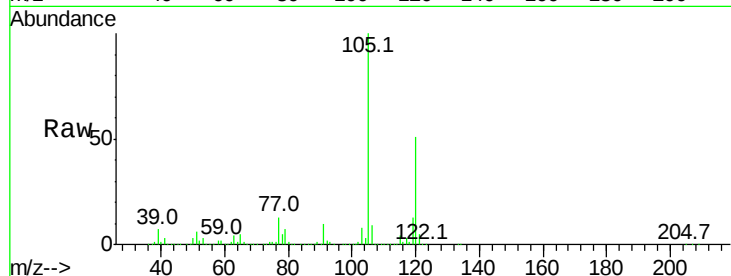
VSTD10066

Tgt Ion:105 Resp: 4503099

Ion Ratio Lower Upper

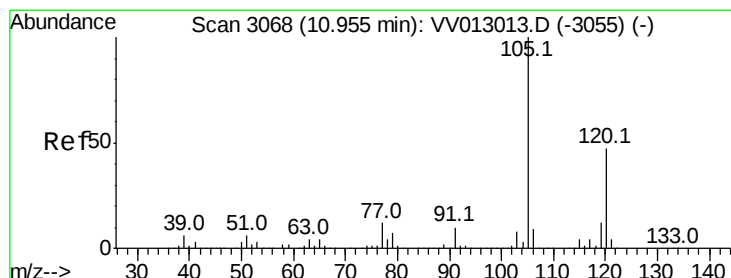
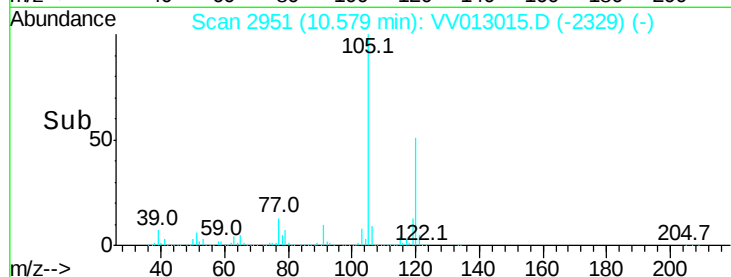
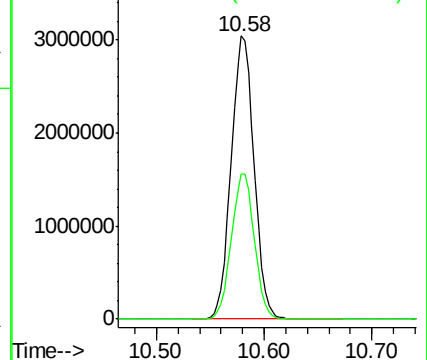
105 100

120 51.4 40.6 61.0



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: 103.518 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VV013015.D

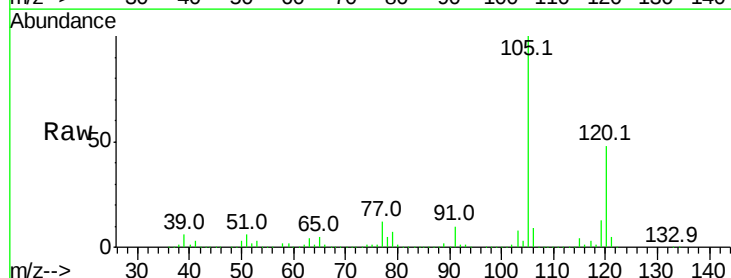
Acq: 30 Sep 2019 12:53

Tgt Ion:105 Resp: 4502452

Ion Ratio Lower Upper

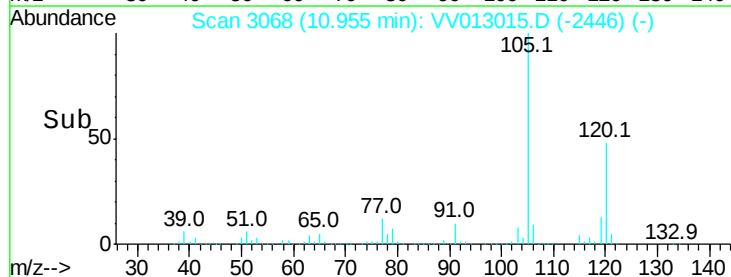
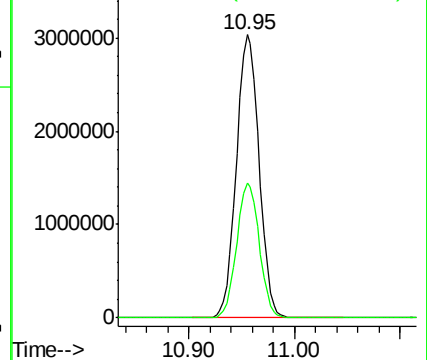
105 100

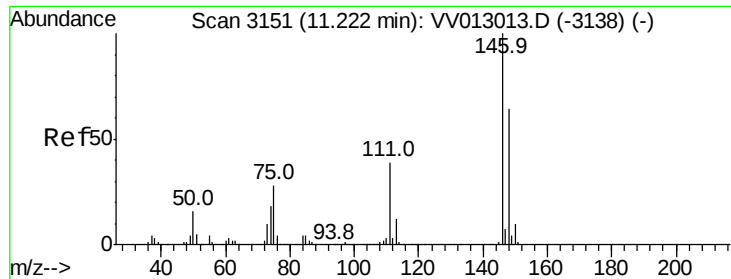
120 47.6 37.1 55.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

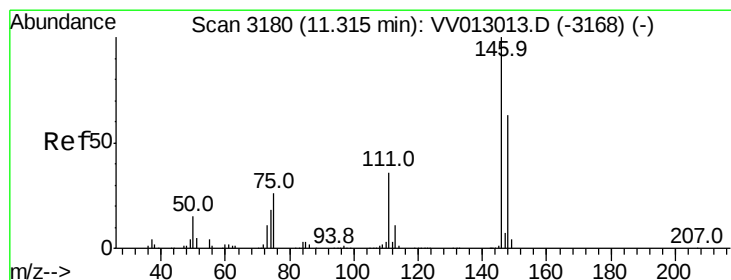
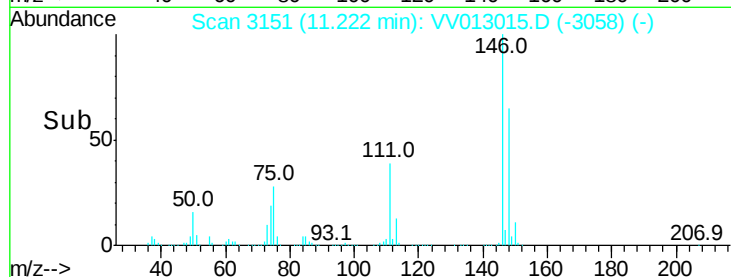
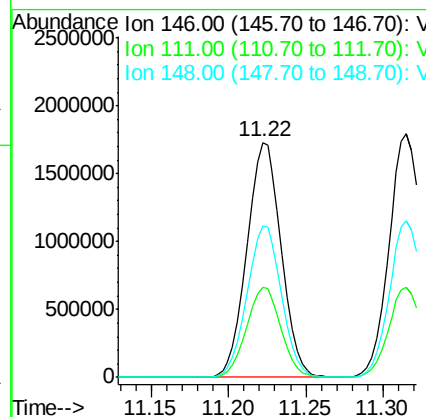
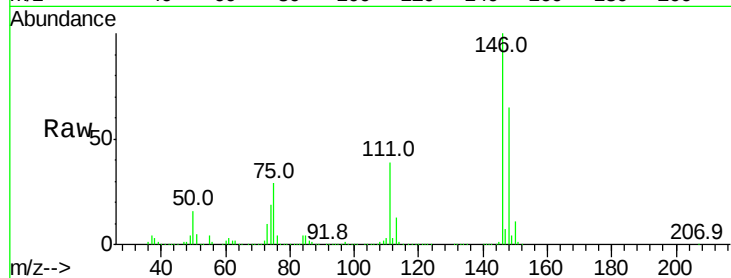




#64
 1,3-Dichlorobenzene
 Concen: 94.546 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

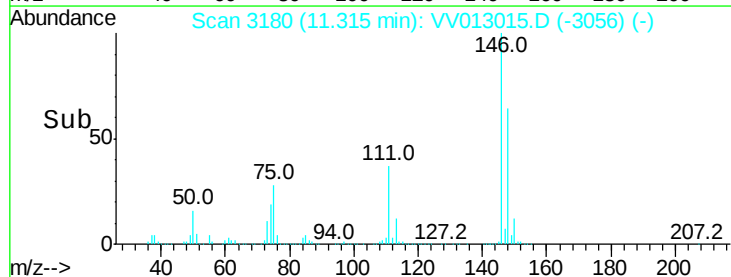
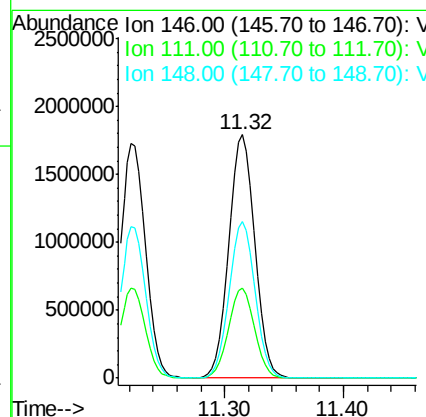
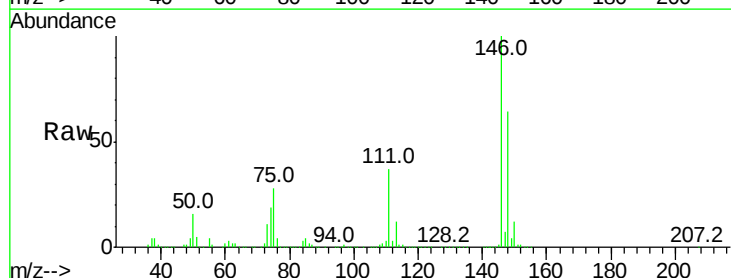
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

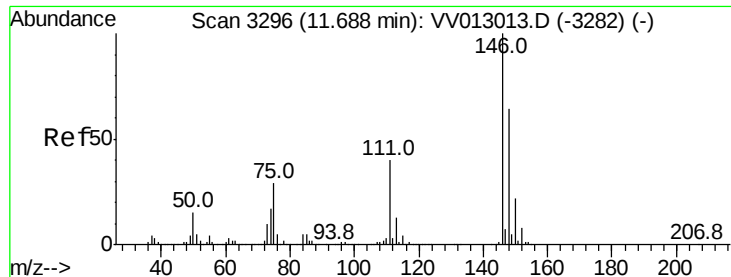
Tgt Ion:146 Resp: 2667647
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.0 50.2
 148 64.6 44.7 83.1



#65
 1,4-Dichlorobenzene
 Concen: 91.558 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

Tgt Ion:146 Resp: 2712963
 Ion Ratio Lower Upper
 146 100
 111 36.8 25.4 47.2
 148 64.3 44.2 82.2

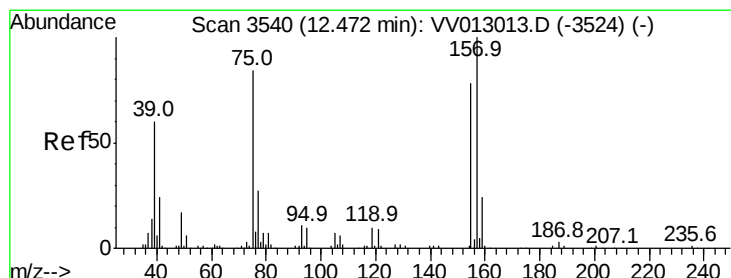
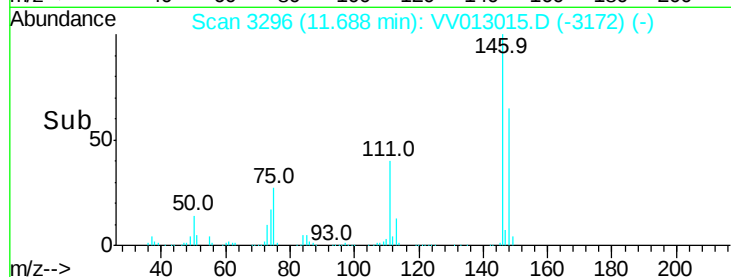
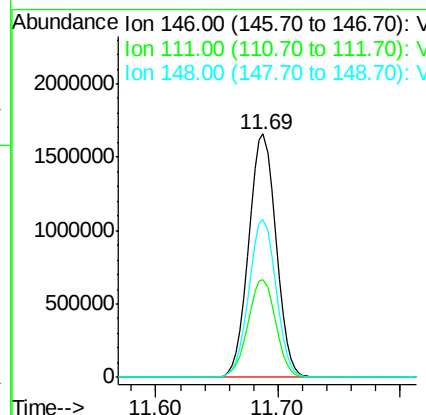
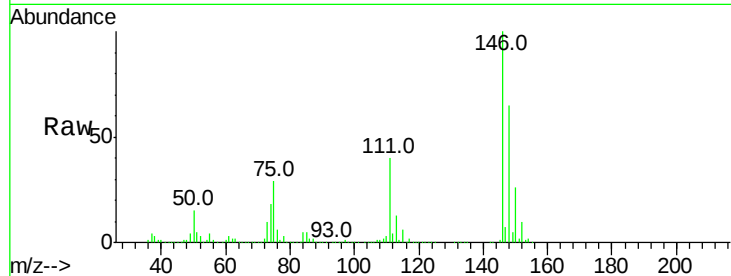




#67
 1,2-Dichlorobenzene
 Concen: 94.340 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

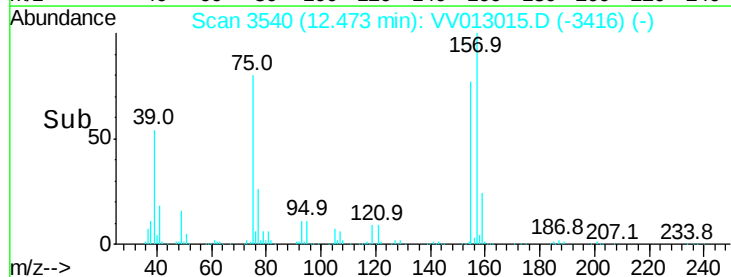
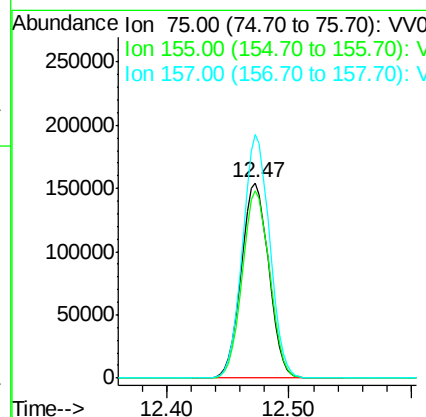
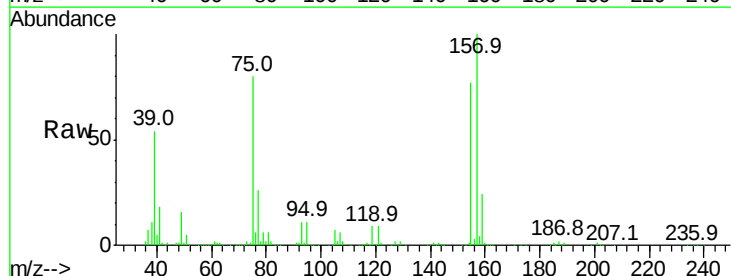
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

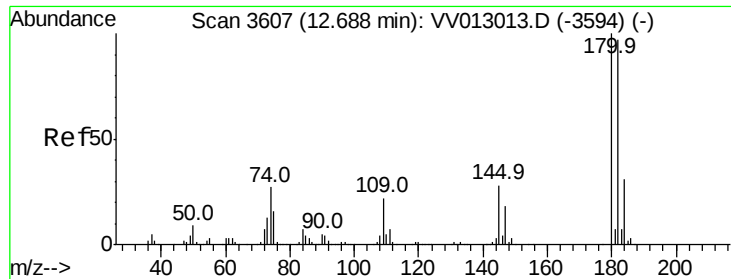
Tgt Ion:146 Resp: 2541534
 Ion Ratio Lower Upper
 146 100
 111 40.3 32.0 48.0
 148 64.7 50.8 76.2



#68
 1,2-Dibromo-3-chloropropane
 Concen: 109.523 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

Tgt Ion: 75 Resp: 241188
 Ion Ratio Lower Upper
 75 100
 155 96.1 74.4 111.6
 157 124.6 95.8 143.6

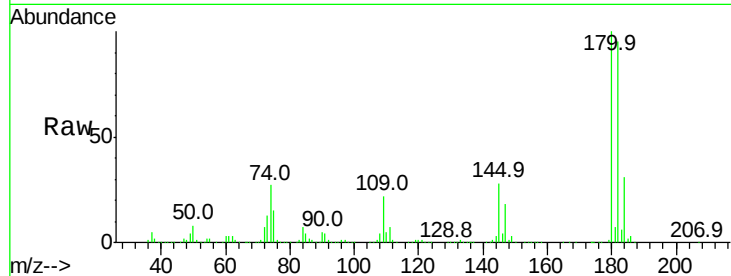




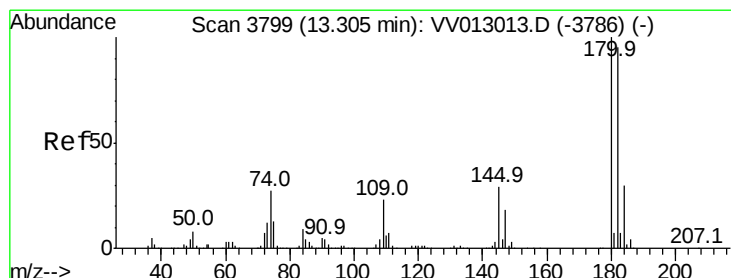
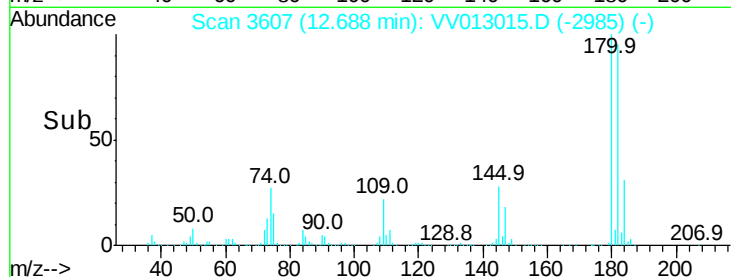
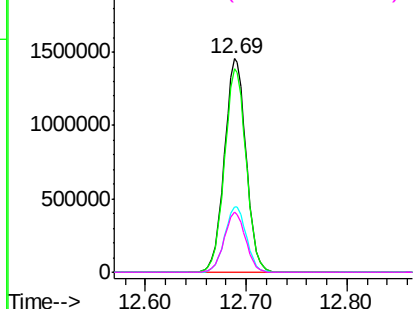
#69
 1,3,5-Trichlorobenzene
 Concen: 95.615 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

Tgt Ion:180 Resp: 2172046
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.6 115.0
 184 30.8 24.6 37.0
 145 27.8 22.2 33.4

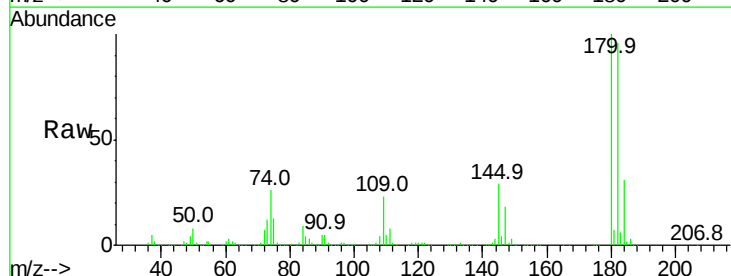


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

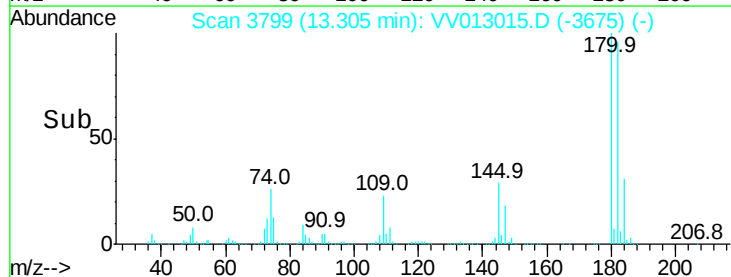
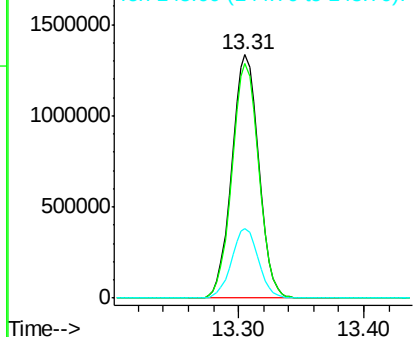


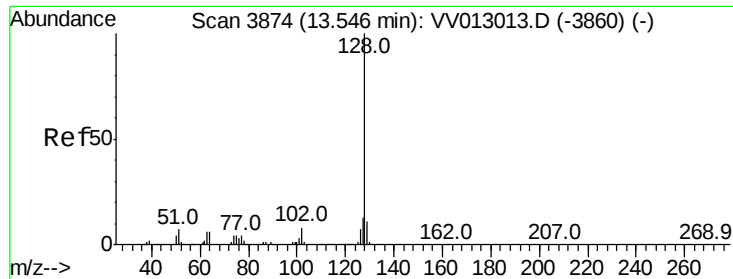
#70
 1,2,4-trichlorobenzene
 Concen: 101.070 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013015.D
 Acq: 30 Sep 2019 12:53

Tgt Ion:180 Resp: 1985311
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.0 114.0
 145 28.4 22.5 33.7



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





#71

Naphthalene

Concen: 115.809 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Instrument :

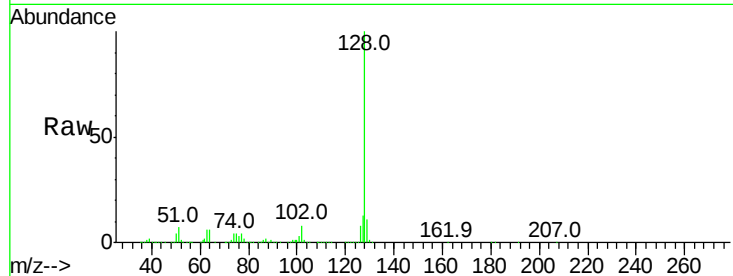
MSVOA_V

ClientSampleId :

VSTD10066

Tgt Ion:128 Resp: 4431213

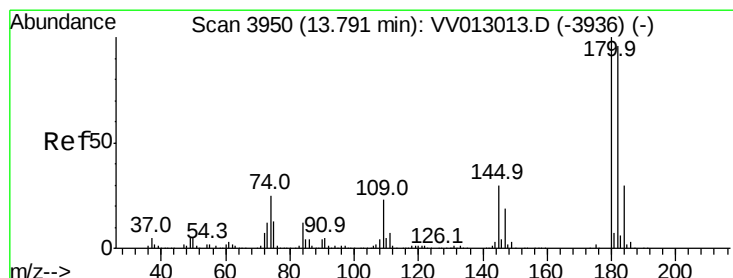
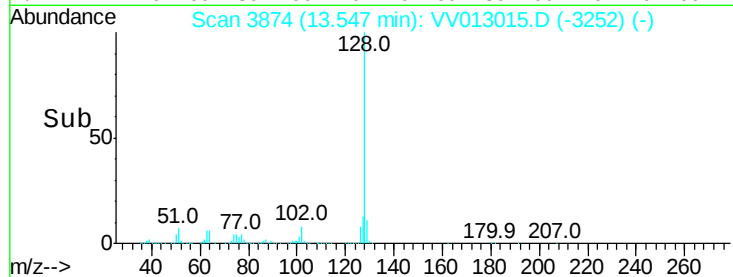
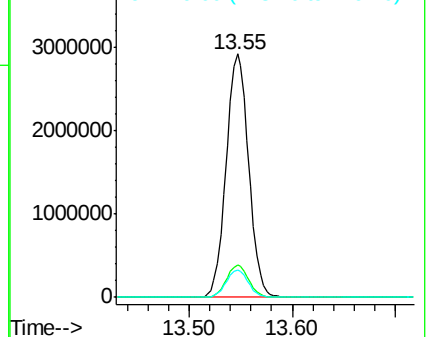
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	11.0	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 99.291 ug/L

RT: 13.79 min Scan# 3949

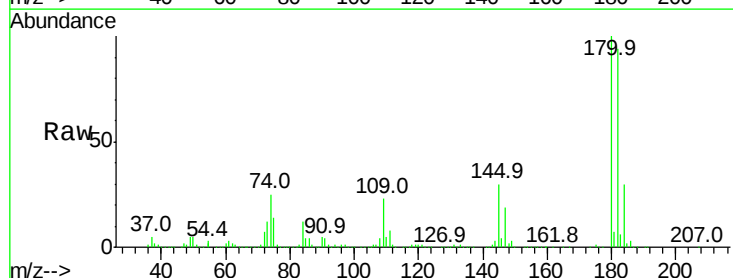
Delta R.T. -0.00 min

Lab File: VV013015.D

Acq: 30 Sep 2019 12:53

Tgt Ion:180 Resp: 1881210

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.7	115.1
145	30.1	24.2	36.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

