

Data File : VW013850.D
Acq On : 31 Oct 2019 11:03
Operator : SY/VA
Sample : VSTD00513
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00505

Quant Time: Oct 31 12:05:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM103119S.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 31 12:00:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	298259	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	295003	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	180400	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	24925	6.81	ug/L	0.00
7) Chloroethane-d5	2.89	69	18544	5.43	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	48658	6.02	ug/L	0.00
20) 2-Butanone-d5	7.07	46	17269	13.19	ug/L	0.00
24) Chloroform-d	7.65	84	47687	5.71	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	26674	6.11	ug/L	0.00
29) Benzene-d6	8.27	84	101008	5.70	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	30545	5.77	ug/L	0.00
37) Toluene-d8	10.32	98	96070	5.88	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	13202	5.53	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	13471	13.31	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	28914	6.67	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	37019	5.81	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	18135	5.406 ug/L	98
3) Chloromethane	2.21	50	17538	4.829 ug/L	96
5) Vinyl chloride	2.36	62	25472	5.613 ug/L	93
6) Bromomethane	2.78	94	15915	4.853 ug/L	96
8) Chloroethane	2.92	64	13642	4.448 ug/L	90
9) Trichlorofluoromethane	3.25	101	10348	3.383 ug/L	96
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	25046	5.200 ug/L #	59
12) 1,1-Dichloroethene	4.04	96	23759	5.012 ug/L	91
13) Acetone	4.12	43	17195	11.837 ug/L	96
14) Carbon disulfide	4.39	76	68168	5.026 ug/L	98
15) Methyl Acetate	4.66	43	4917	2.072 ug/L #	81
16) Methylene chloride	4.92	84	31909	5.587 ug/L	96
17) Methyl tert-butyl Ether	5.42	73	30242	4.611 ug/L #	88
18) trans-1,2-Dichloroethene	5.42	96	25787	4.921 ug/L	92
19) 1,1-Dichloroethane	6.21	63	44015	4.962 ug/L	95
21) 2-Butanone	7.18	43	23374	12.673 ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	27049	4.809 ug/L	99
23) Bromochloromethane	7.51	128	12994	5.111 ug/L	95
25) Chloroform	7.67	83	44989	5.050 ug/L	100
27) 1,2-Dichloroethane	8.40	62	29248	5.122 ug/L	95
30) Cyclohexane	7.95	56	40248	4.657 ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	33631	4.888 ug/L	97
32) Carbon tetrachloride	8.06	117	33218	4.958 ug/L	98
34) Benzene	8.32	78	101024	4.773 ug/L	100
35) Trichloroethene	9.09	95	26727	4.921 ug/L	99
36) Methylcyclohexane	9.33	83	45392	4.742 ug/L	99
40) 1,2-Dichloropropane	9.37	63	25184	4.866 ug/L	99
41) Bromodichloromethane	9.65	83	30915	4.875 ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	37736	4.618 ug/L	95
43) 4-Methyl-2-pentanone	10.21	43	38981	11.040 ug/L	99

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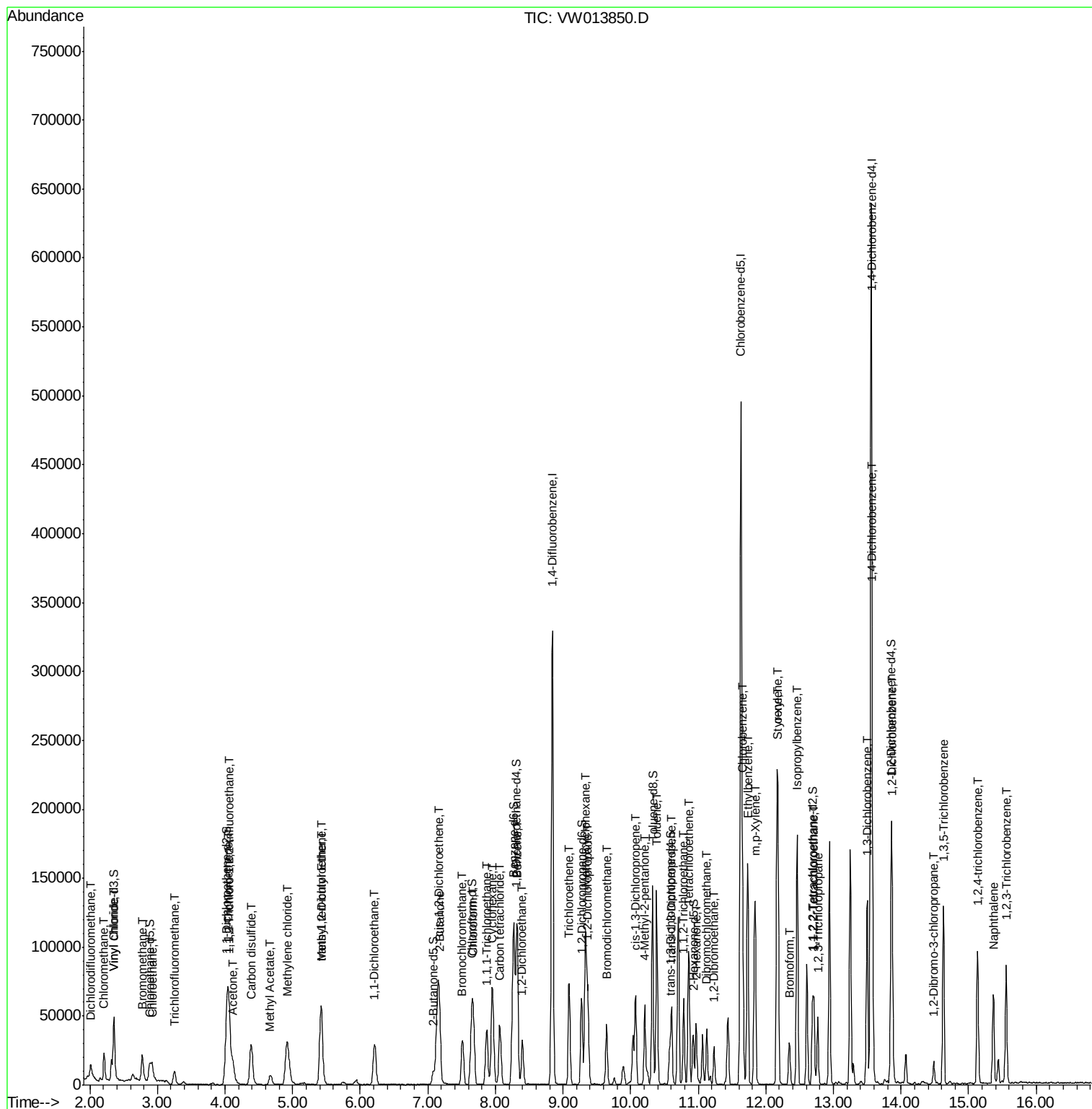
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	108411	4.767	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	30341	4.600	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	20562	5.151	ug/L	91
47) Tetrachloroethene	10.86	164	24315	4.891	ug/L	97
49) 2-Hexanone	10.97	43	28755	11.479	ug/L	96
50) Dibromochloromethane	11.13	129	22854	4.852	ug/L	95
51) 1,2-Dibromoethane	11.24	107	19680	5.070	ug/L	96
52) Chlorobenzene	11.66	112	71529	4.916	ug/L	96
53) Ethylbenzene	11.73	91	118488	4.716	ug/L	99
54) m,p-Xylene	11.84	106	46557	4.795	ug/L	92
55) o-xylene	12.16	106	43648	4.737	ug/L	100
56) Styrene	12.18	104	73007	4.632	ug/L	100
57) Isopropylbenzene	12.46	105	115812	4.686	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	25787	5.512	ug/L	93
59) 1,2,3-Trichloropropane	12.77	75	19938	5.715	ug/L	94
62) Bromoform	12.35	173	15160	4.904	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	57963	4.735	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	58780	4.779	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	53404	4.815	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.48	75	4362	5.722	ug/L	93
67) 1,3,5-Trichlorobenzene	14.63	180	43839	4.817	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	33368	4.319	ug/L	95
69) Naphthalene	15.36	128	59517	4.251	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	32256	4.662	ug/L	96

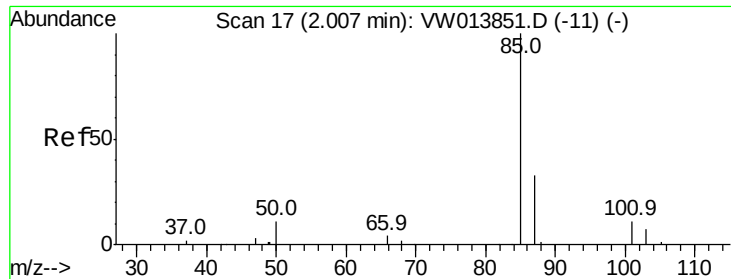
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 5.406 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

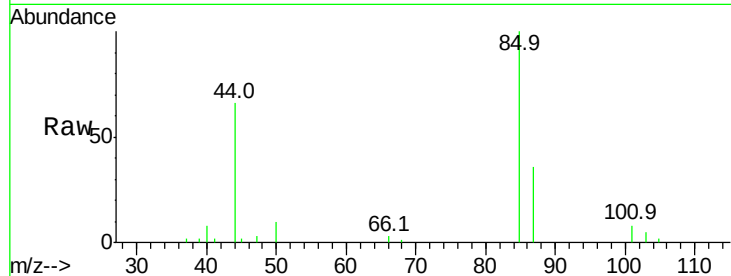
VSTD00505

Tgt Ion: 85 Resp: 18135

Ion Ratio Lower Upper

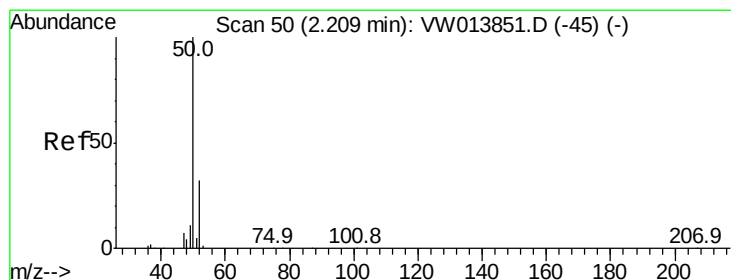
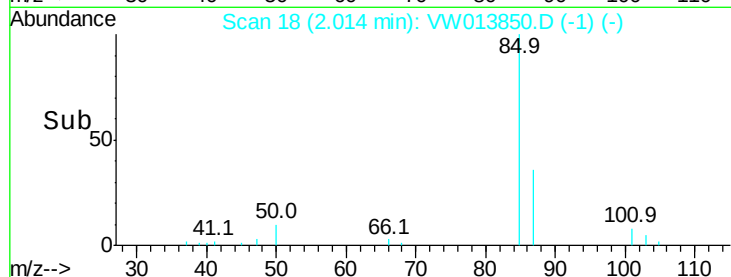
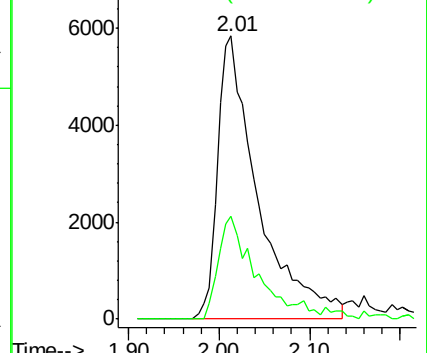
85 100

87 31.2 22.5 41.7



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 4.829 ug/L

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013850.D

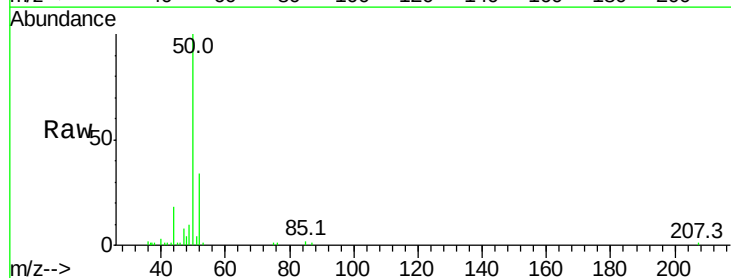
Acq: 31 Oct 2019 11:03

Tgt Ion: 50 Resp: 17538

Ion Ratio Lower Upper

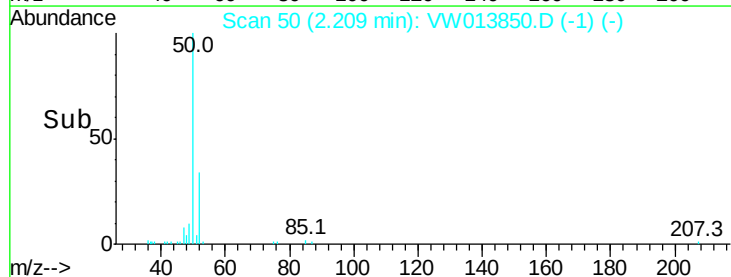
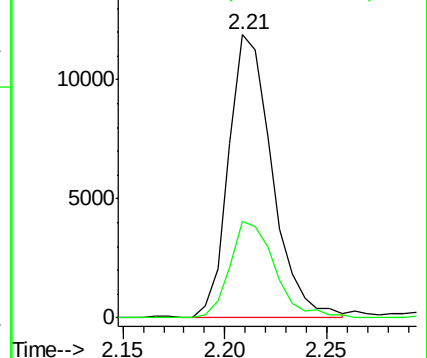
50 100

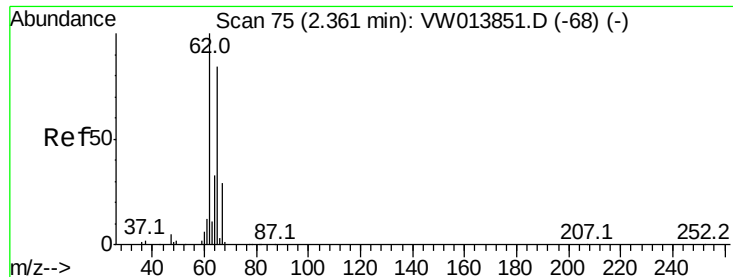
52 34.2 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 5.613 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

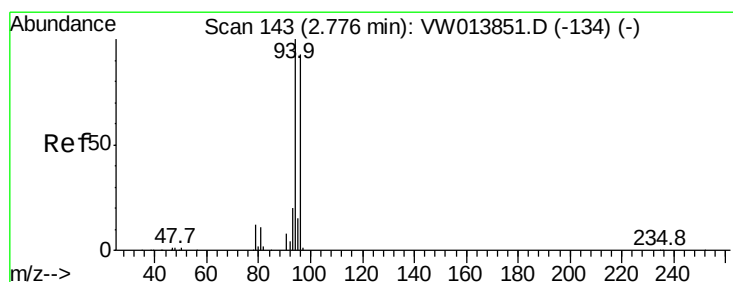
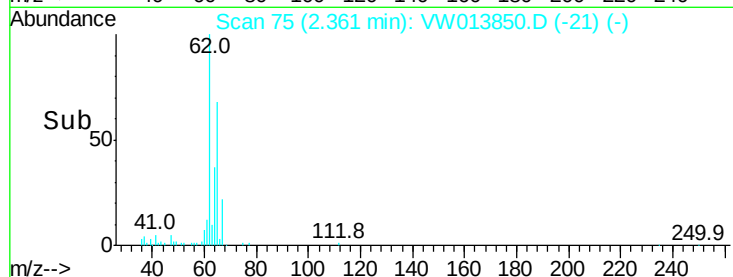
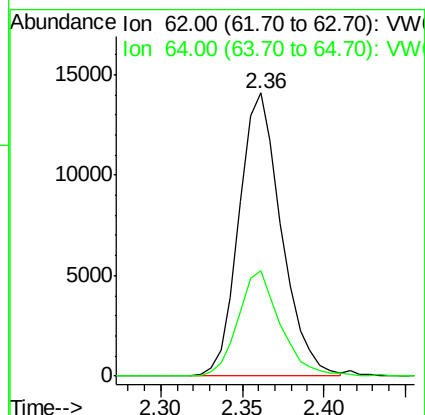
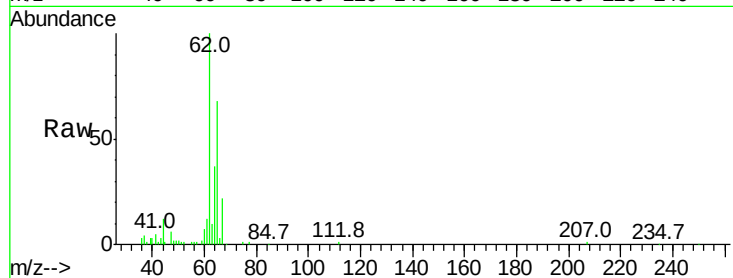
VSTD00505

Tgt Ion: 62 Resp: 25472

Ion Ratio Lower Upper

62 100

64 37.2 23.3 43.3



#6

Bromomethane

Concen: 4.853 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW013850.D

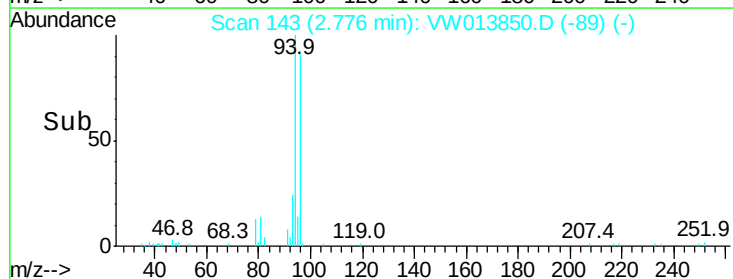
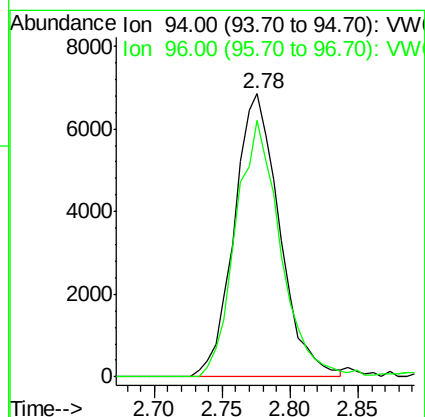
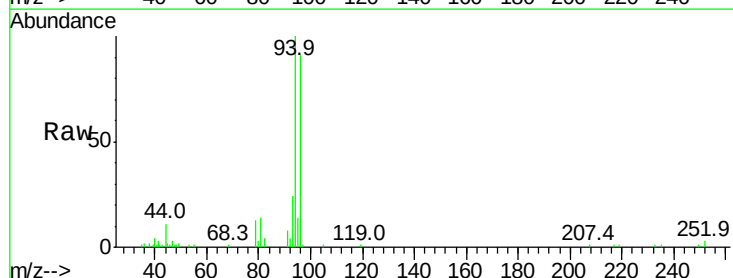
Acq: 31 Oct 2019 11:03

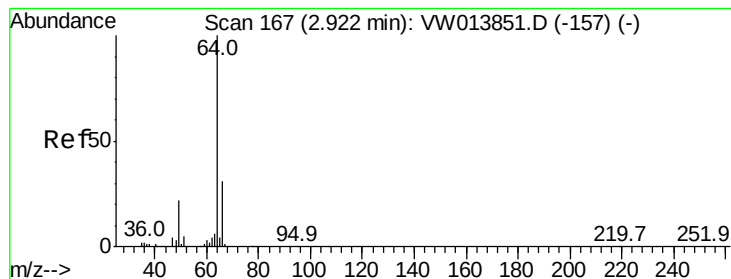
Tgt Ion: 94 Resp: 15915

Ion Ratio Lower Upper

94 100

96 89.3 9.3 177.3





#8

Chloroethane

Concen: 4.448 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

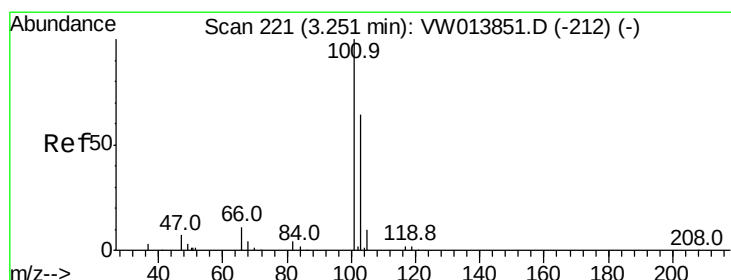
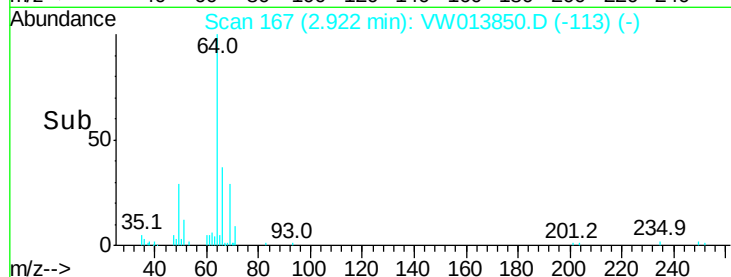
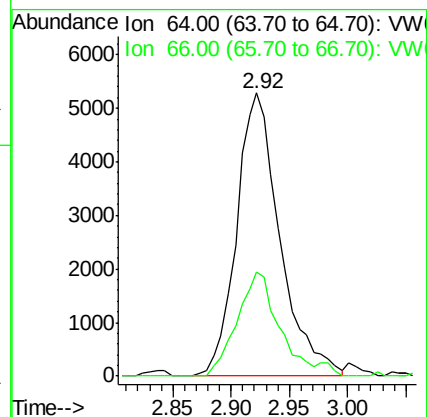
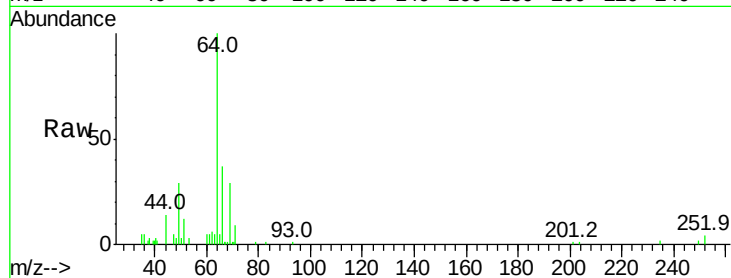
VSTD00505

Tgt Ion: 64 Resp: 13642

Ion Ratio Lower Upper

64 100

66 36.8 22.0 41.0



#9

Trichlorofluoromethane

Concen: 3.383 ug/L

RT: 3.25 min Scan# 221

Delta R.T. 0.00 min

Lab File: VW013850.D

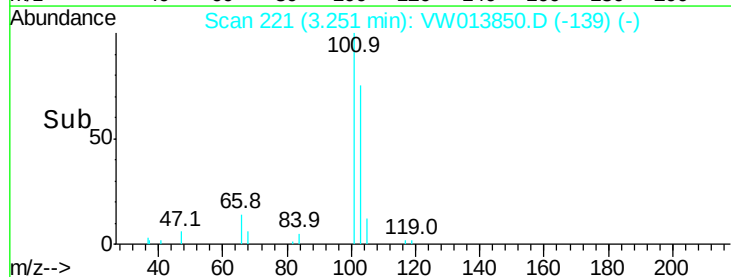
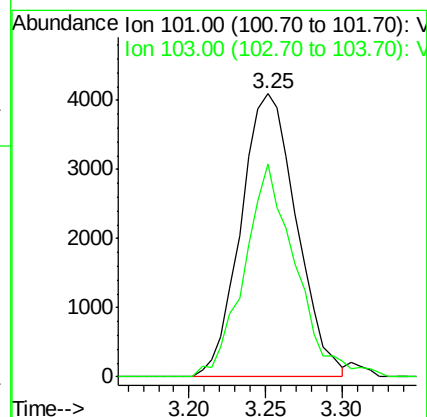
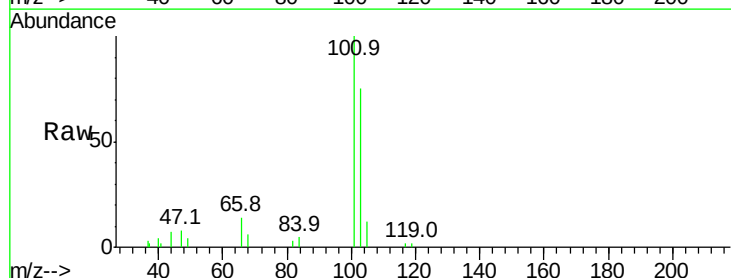
Acq: 31 Oct 2019 11:03

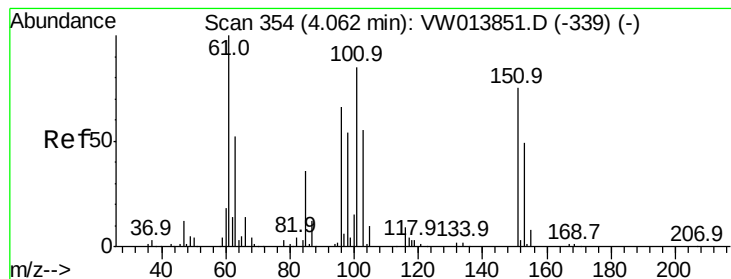
Tgt Ion: 101 Resp: 10348

Ion Ratio Lower Upper

101 100

103 68.6 45.8 85.0





#11

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

Concen: 5.200 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD00505

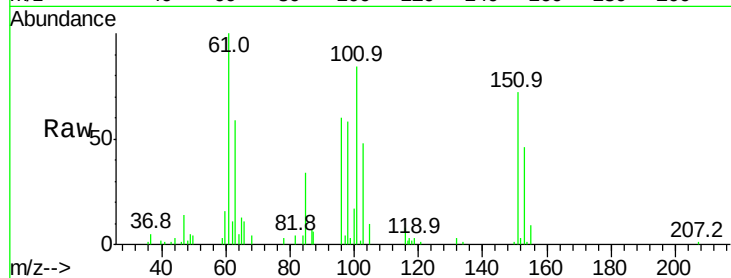
Tgt Ion: 101 Resp: 25046

Ion Ratio Lower Upper

101 100

85 22.7 32.6 48.8#

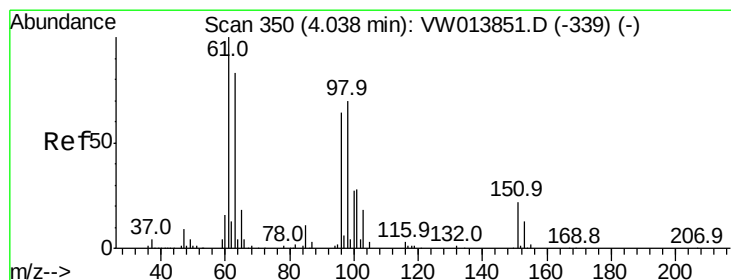
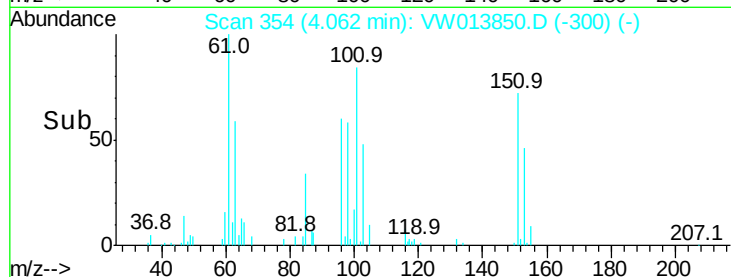
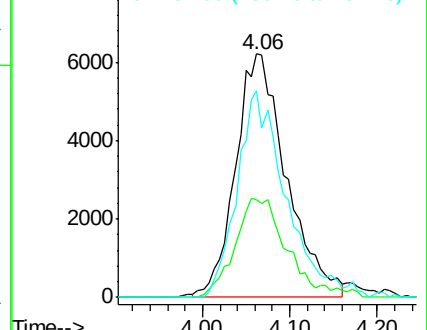
151 42.7 68.2 102.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.012 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

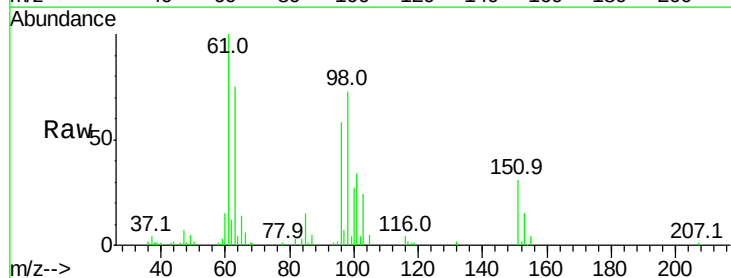
Tgt Ion: 96 Resp: 23759

Ion Ratio Lower Upper

96 100

61 172.1 110.4 205.0

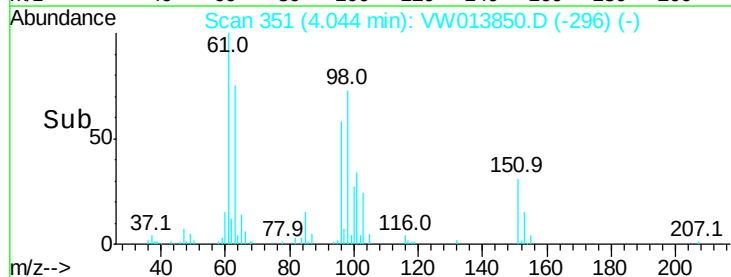
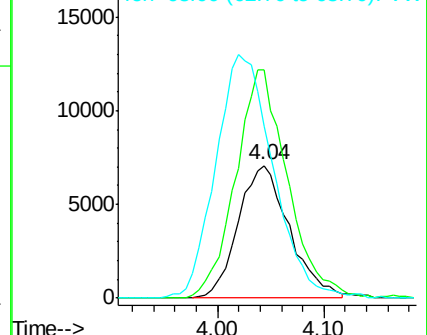
63 129.7 95.5 177.3

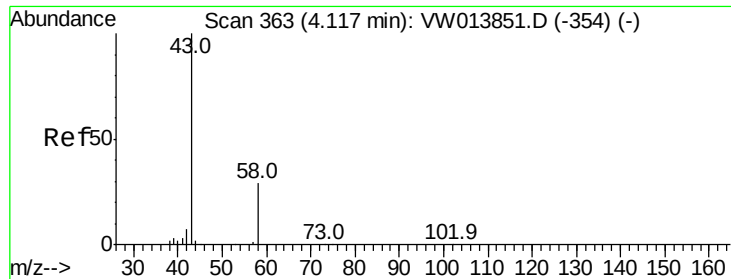


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 11.837 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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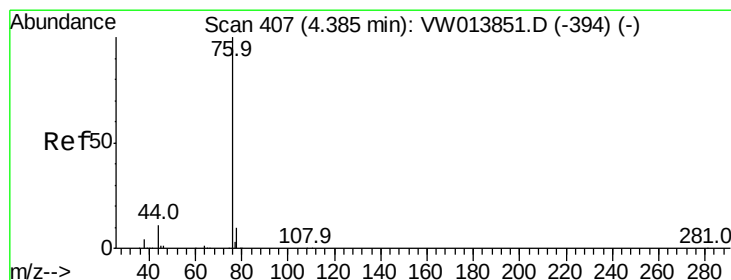
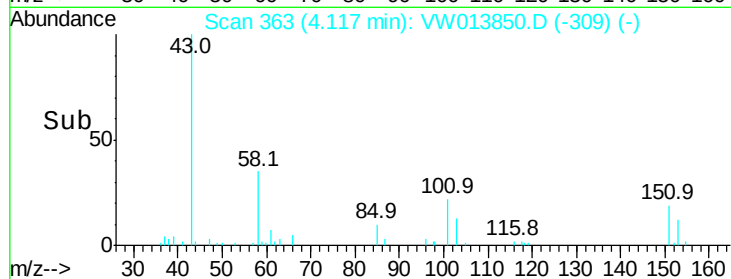
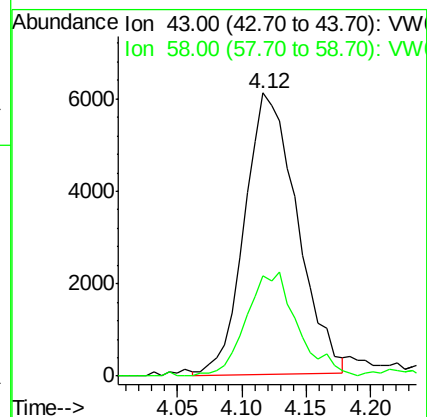
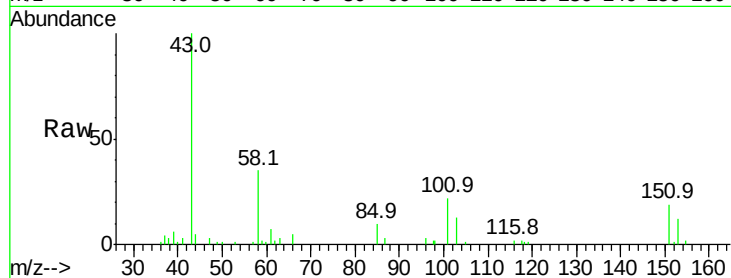
VSTD00505

Tgt Ion: 43 Resp: 17195

Ion Ratio Lower Upper

43 100

58 33.9 0.0 63.4



#14

Carbon disulfide

Concen: 5.026 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW013850.D

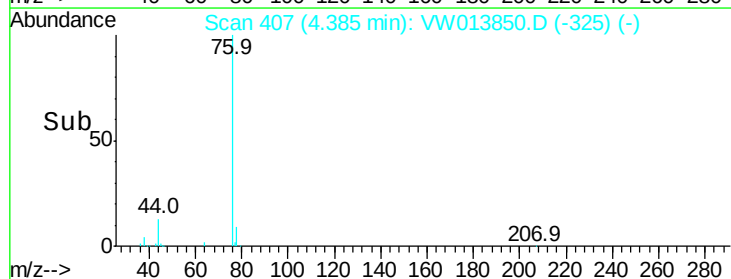
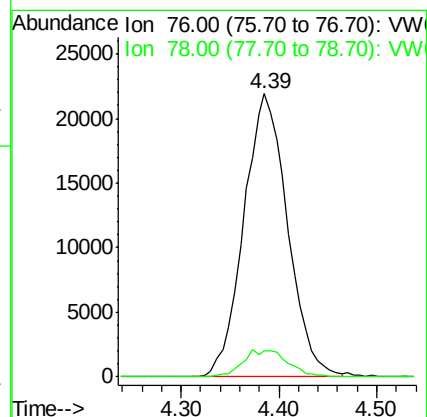
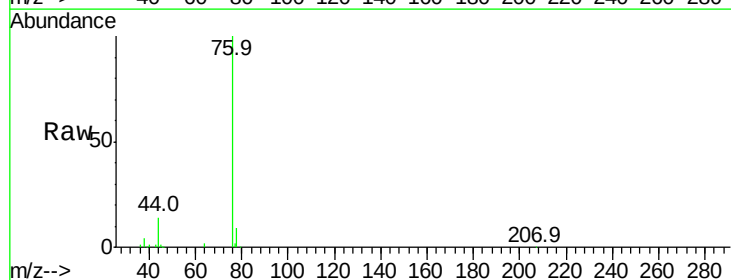
Acq: 31 Oct 2019 11:03

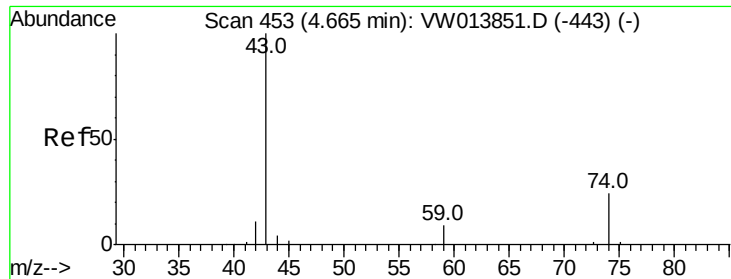
Tgt Ion: 76 Resp: 68168

Ion Ratio Lower Upper

76 100

78 9.0 7.8 11.6





#15

Methyl Acetate

Concen: 2.072 ug/L

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

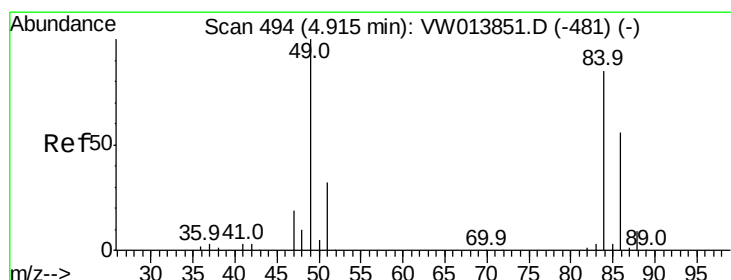
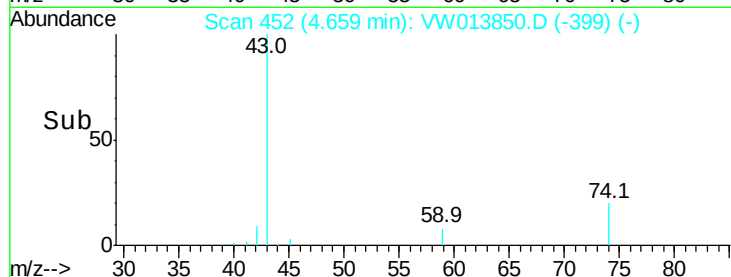
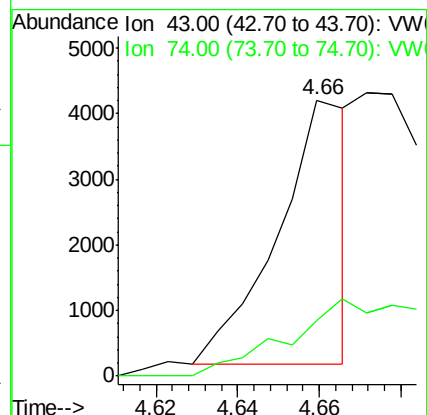
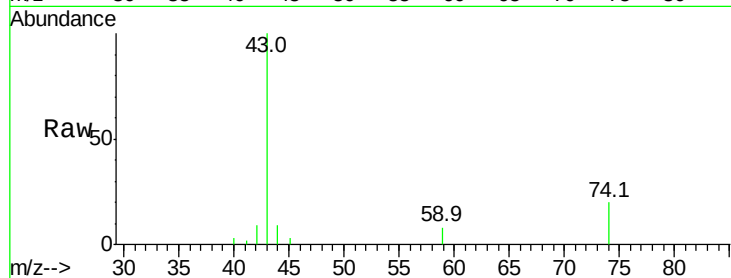
VSTD00505

Tgt Ion: 43 Resp: 4917

Ion Ratio Lower Upper

43 100

74 33.6 19.2 28.8#



#16

Methylene chloride

Concen: 5.587 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

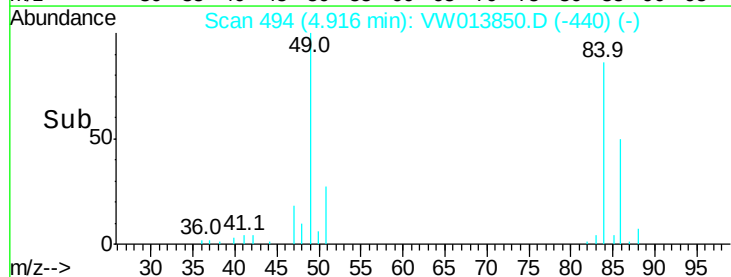
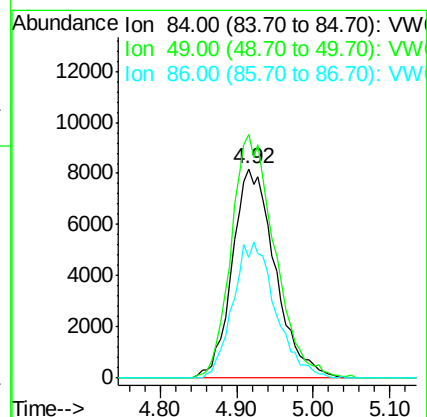
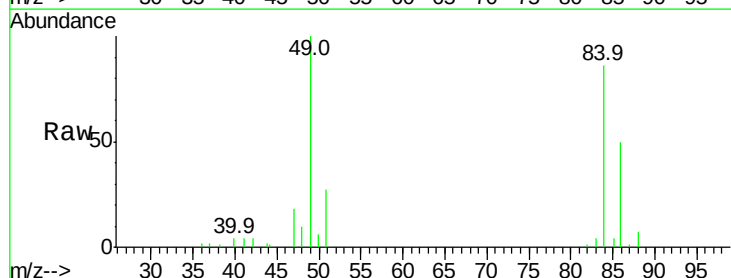
Tgt Ion: 84 Resp: 31909

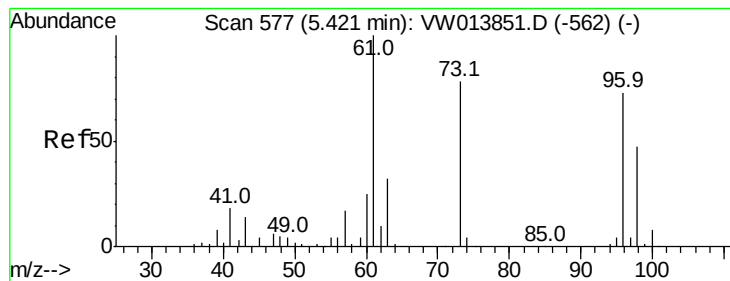
Ion Ratio Lower Upper

84 100

49 116.3 82.2 152.6

86 57.6 45.6 84.8





#17

Methyl tert-butyl Ether

Concen: 4.611 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD00505

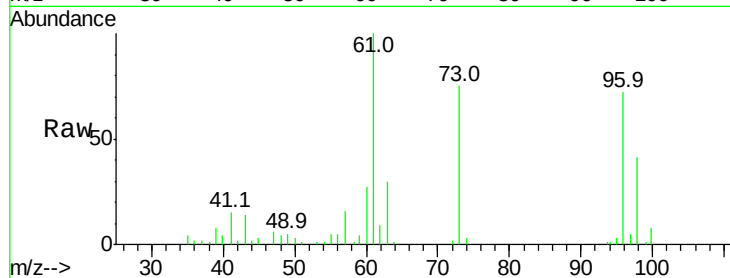
Tgt Ion: 73 Resp: 30242

Ion Ratio Lower Upper

73 100

43 11.6 15.3 22.9#

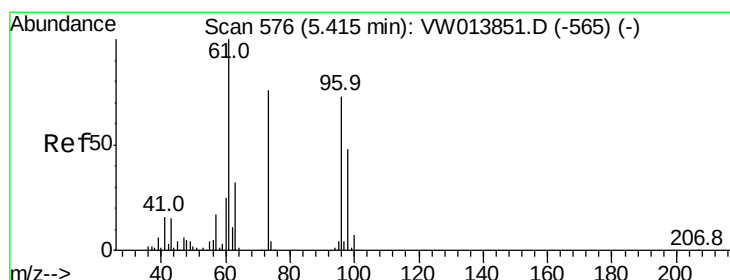
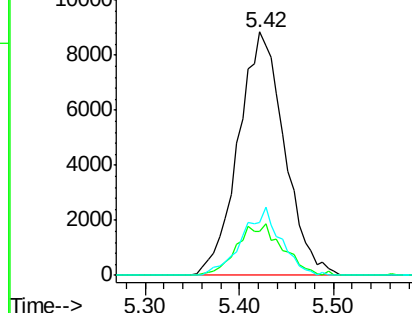
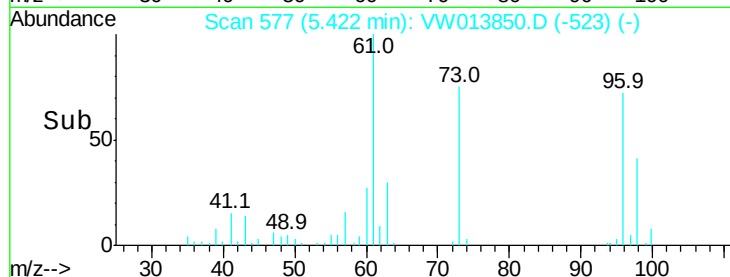
57 13.5 9.4 14.2



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 4.921 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

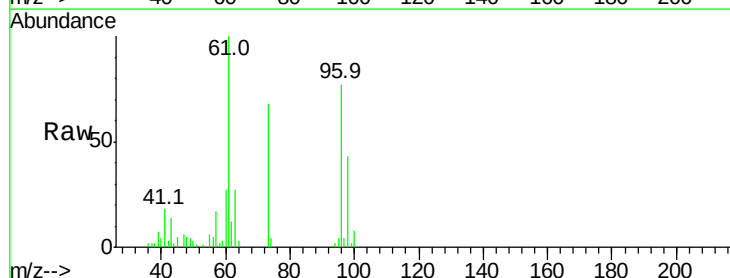
Tgt Ion: 96 Resp: 25787

Ion Ratio Lower Upper

96 100

61 130.0 95.5 177.4

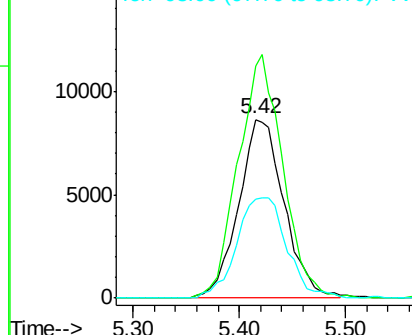
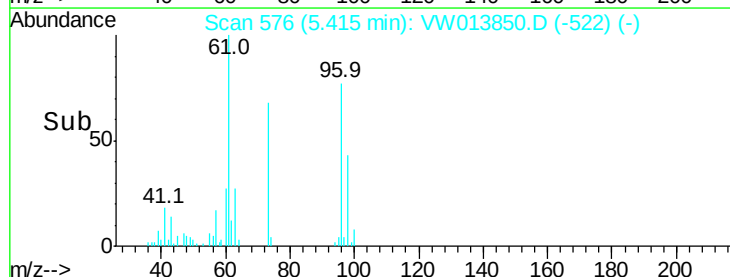
98 55.4 45.4 84.4

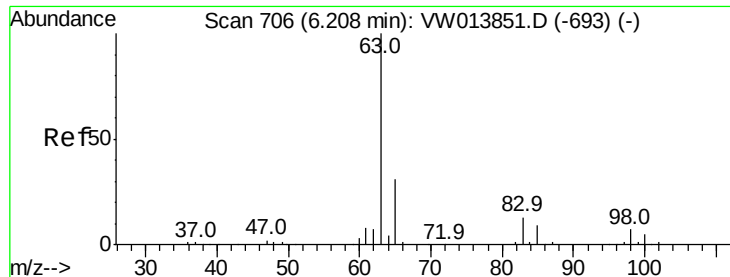


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW

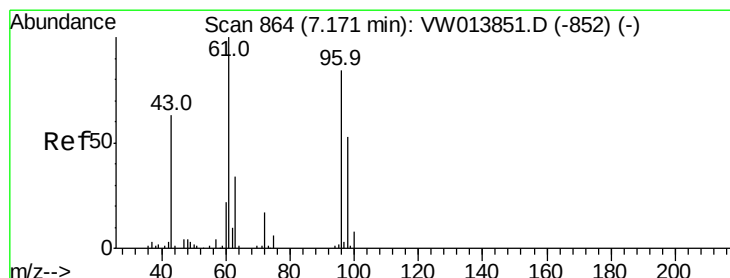
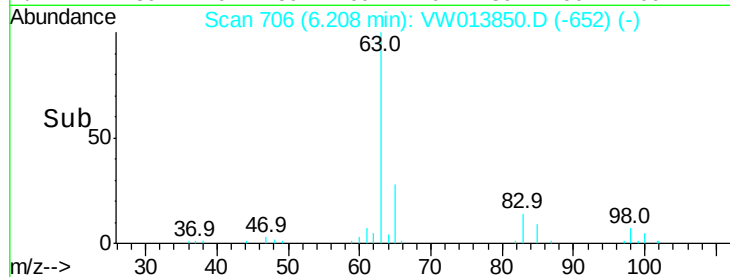
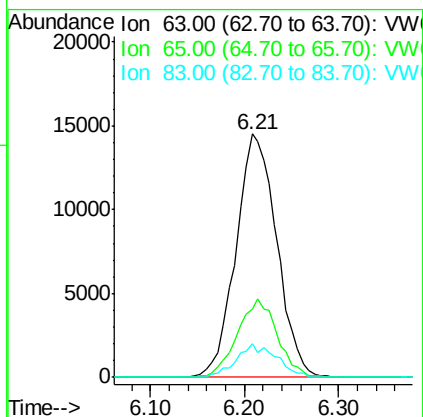
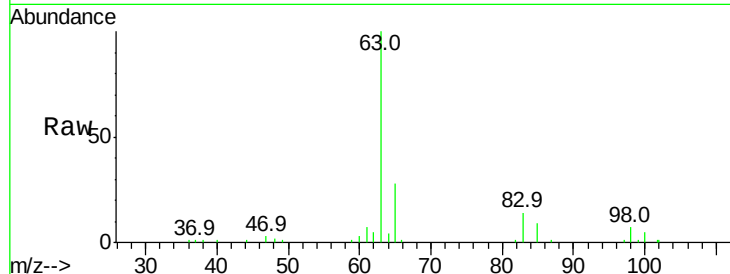




#19
 1,1-Dichloroethane
 Concen: 4.962 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW013850.D
 Acq: 31 Oct 2019 11:03

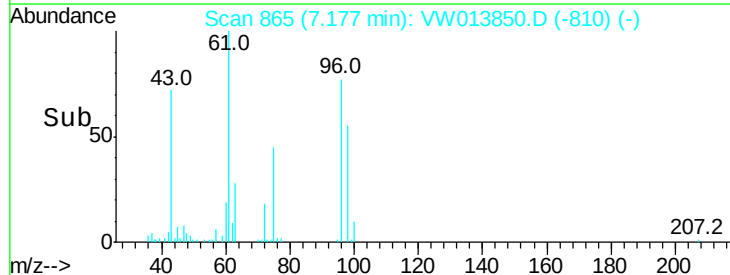
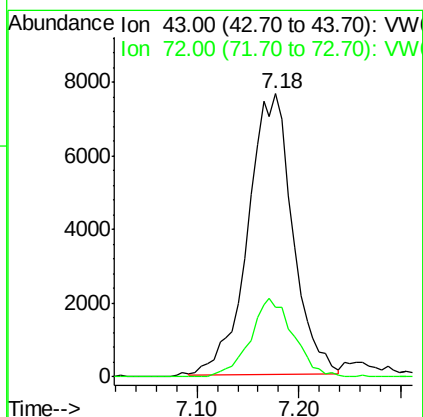
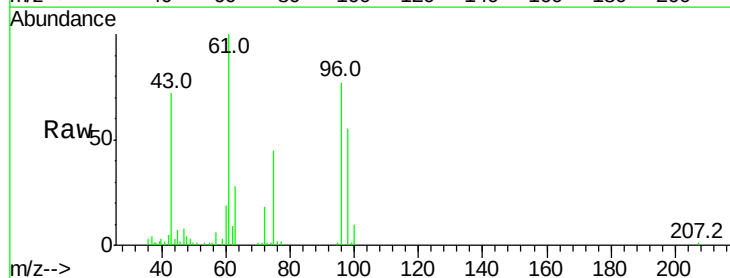
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00505

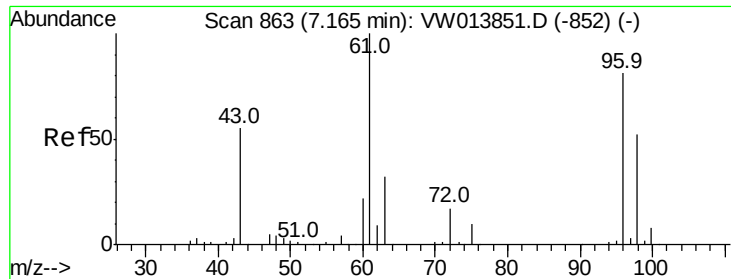
Tgt Ion: 63 Resp: 44015
 Ion Ratio Lower Upper
 63 100
 65 28.1 22.0 40.8
 83 14.1 9.1 16.9



#21
 2-Butanone
 Concen: 12.673 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW013850.D
 Acq: 31 Oct 2019 11:03

Tgt Ion: 43 Resp: 23374
 Ion Ratio Lower Upper
 43 100
 72 26.4 14.0 41.9





#22

cis-1,2-Dichloroethene

Concen: 4.809 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD00505

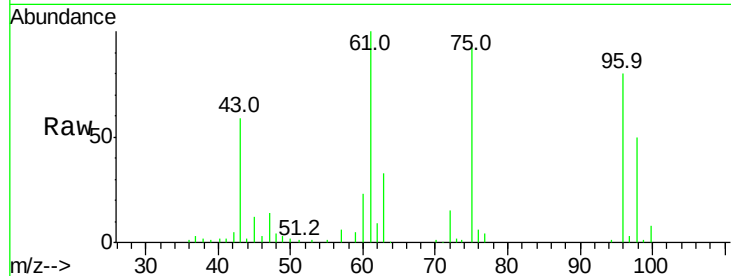
Tgt Ion: 96 Resp: 27049

Ion Ratio Lower Upper

96 100

61 125.2 86.6 160.8

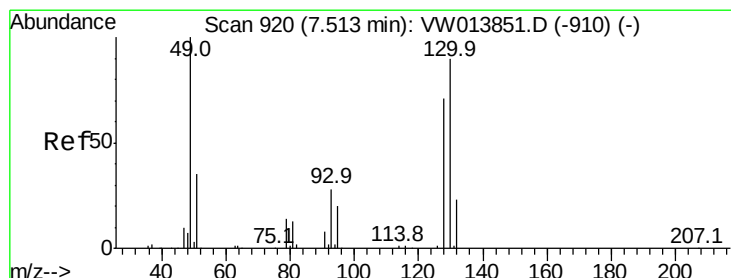
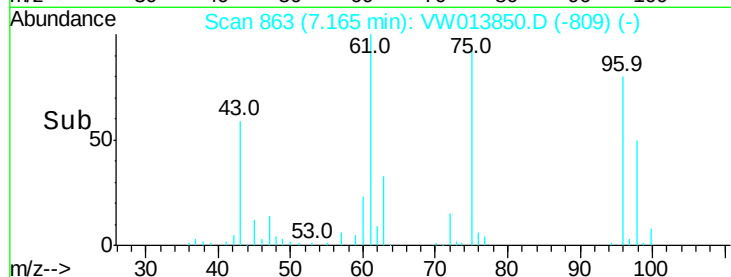
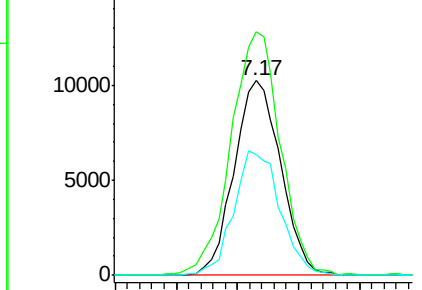
98 63.1 44.5 82.7



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW



#23

Bromochloromethane

Concen: 5.111 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Tgt Ion: 128 Resp: 12994

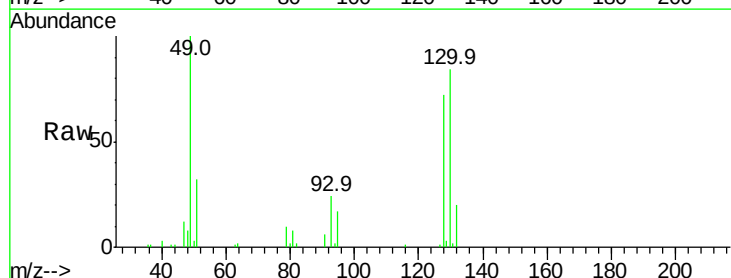
Ion Ratio Lower Upper

128 100

49 139.6 99.1 184.1

130 117.8 88.8 164.8

51 44.8 39.6 59.4

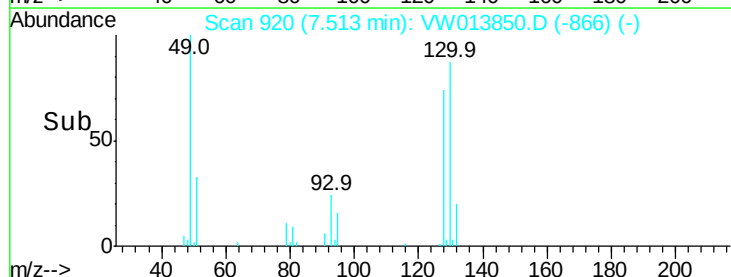
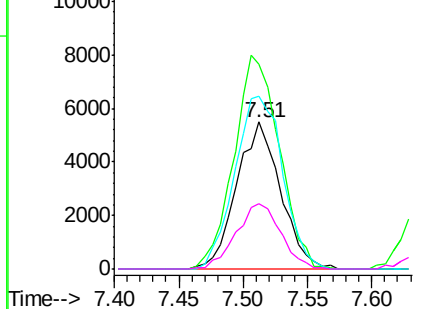


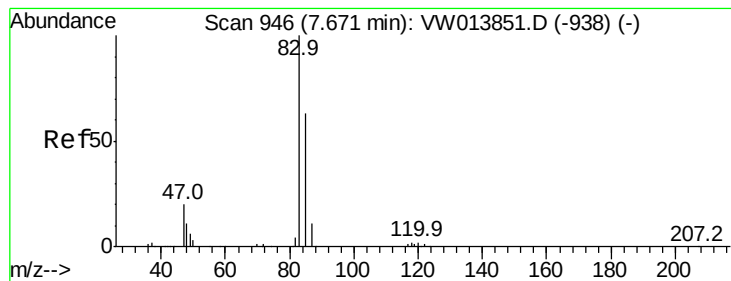
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 5.050 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

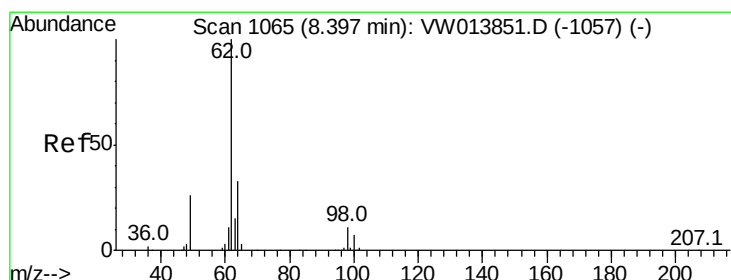
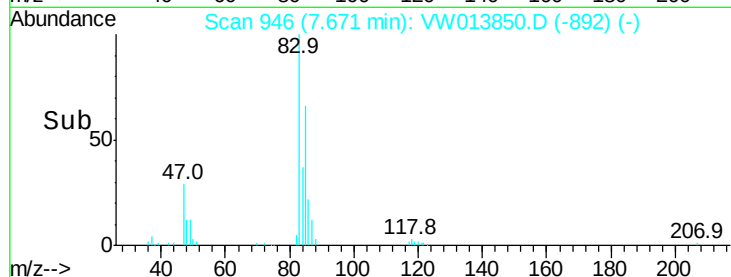
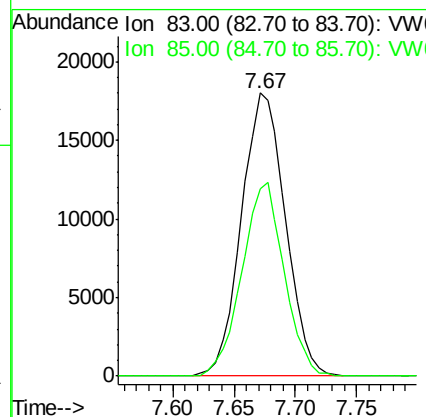
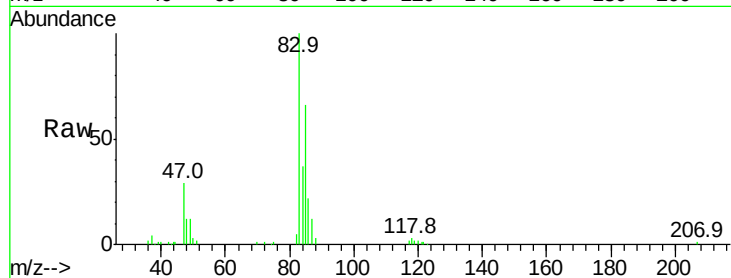
VSTD00505

Tgt Ion: 83 Resp: 44989

Ion Ratio Lower Upper

83 100

85 65.6 46.2 85.8



#27

1,2-Dichloroethane

Concen: 5.122 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW013850.D

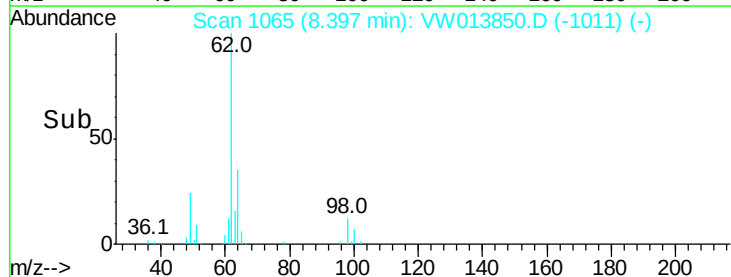
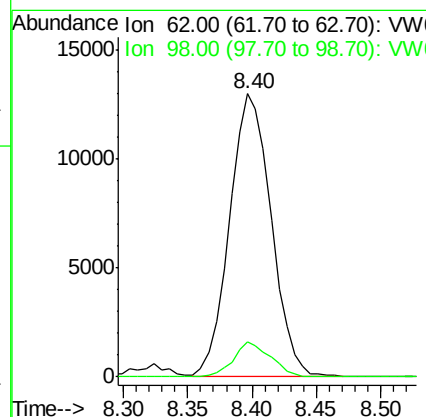
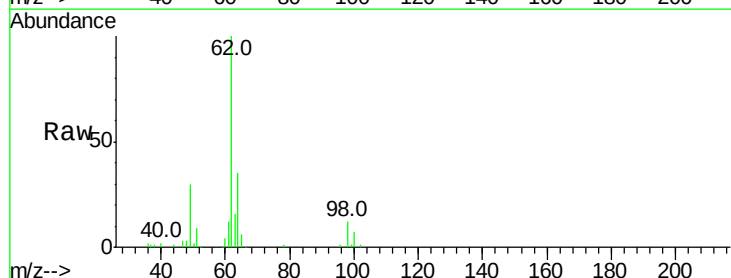
Acq: 31 Oct 2019 11:03

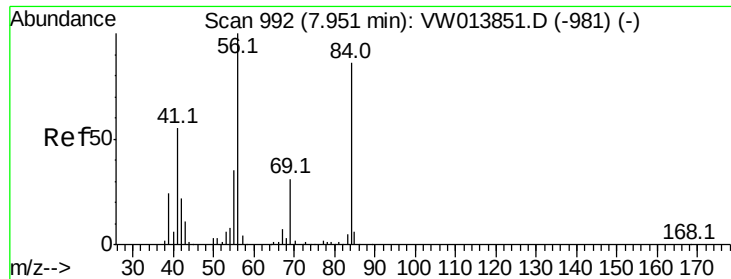
Tgt Ion: 62 Resp: 29248

Ion Ratio Lower Upper

62 100

98 12.5 8.6 12.8

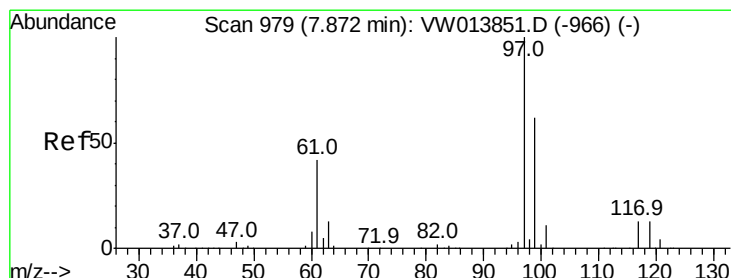
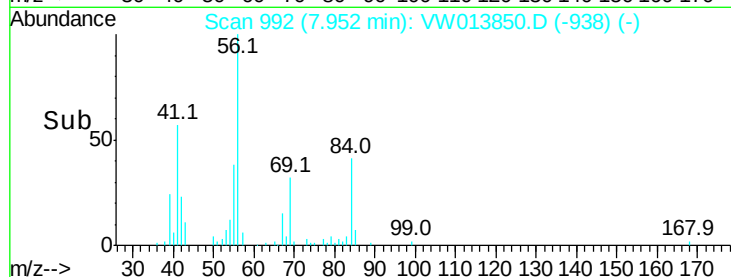
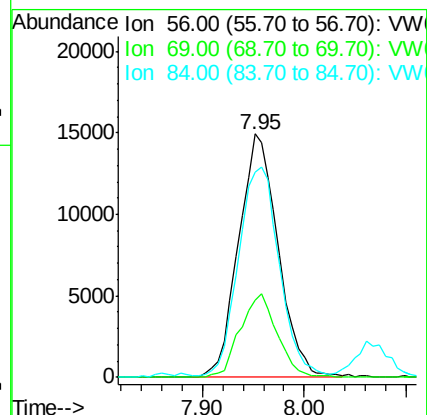
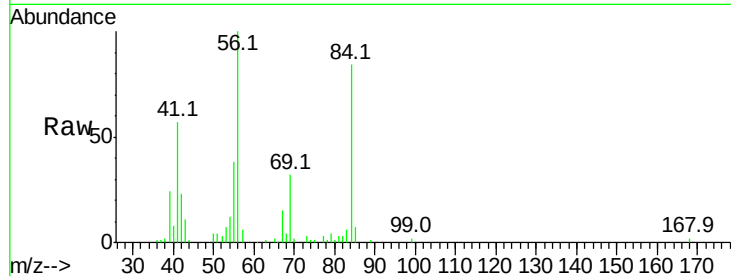




#30
Cyclohexane
Concen: 4.657 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

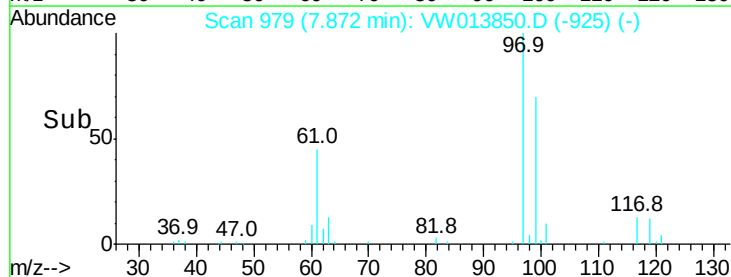
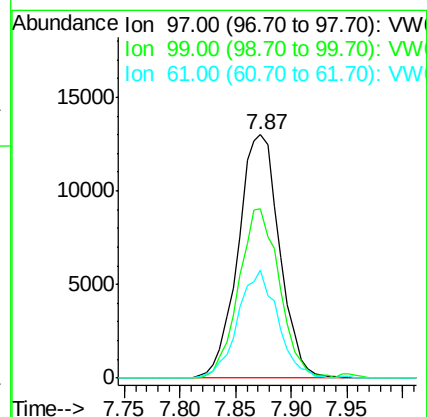
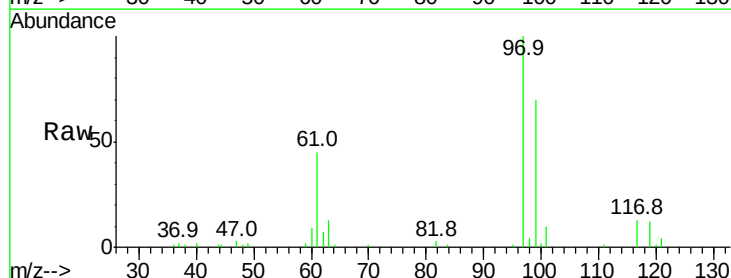
Instrument :
MSVOA_W
ClientSampleId :
VSTD00505

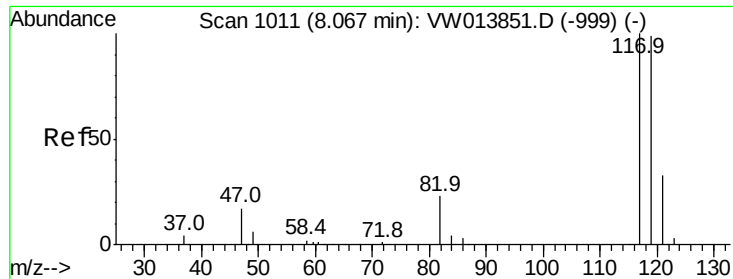
Tgt Ion: 56 Resp: 40248
Ion Ratio Lower Upper
56 100
69 31.8 24.6 36.8
84 90.0 70.2 105.4



#31
1,1,1-Trichloroethane
Concen: 4.888 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

Tgt Ion: 97 Resp: 33631
Ion Ratio Lower Upper
97 100
99 68.1 51.3 76.9
61 42.5 33.6 50.4





#32

Carbon tetrachloride

Concen: 4.958 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

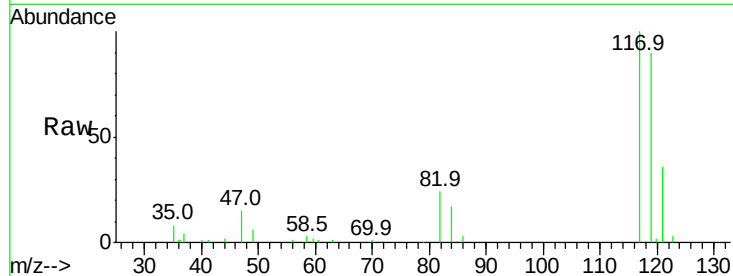
VSTD00505

Tgt Ion:117 Resp: 33218

Ion Ratio Lower Upper

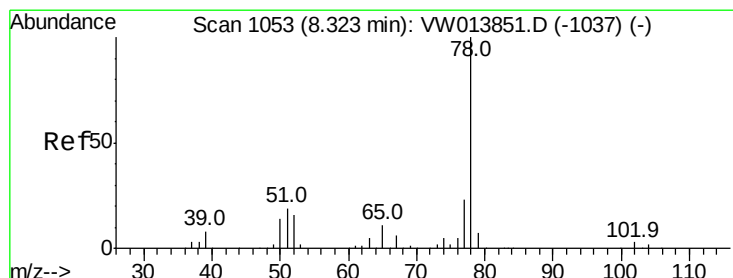
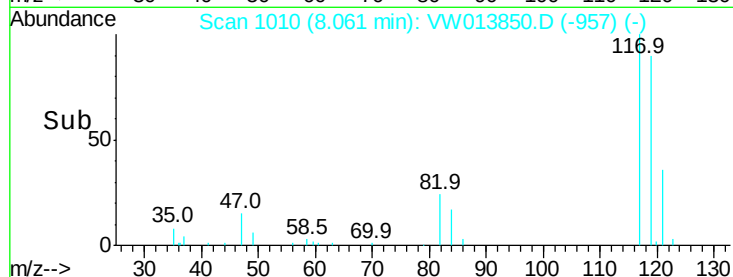
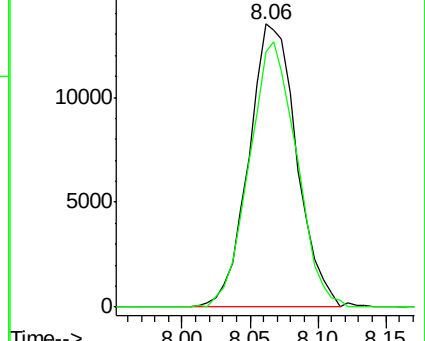
117 100

119 92.7 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 4.773 ug/L

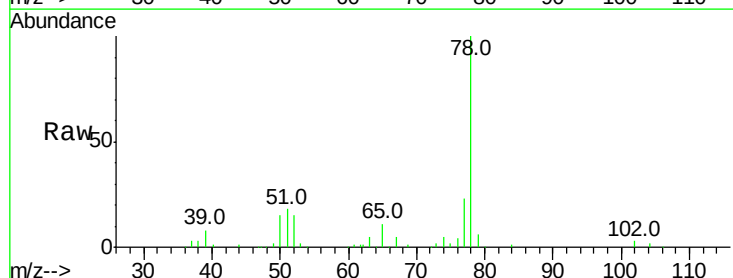
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

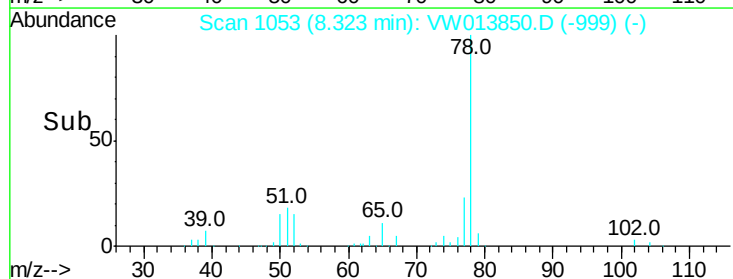
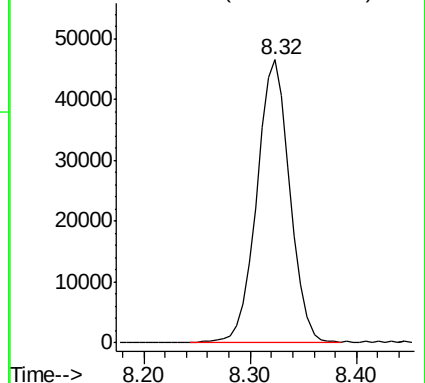
Lab File: VW013850.D

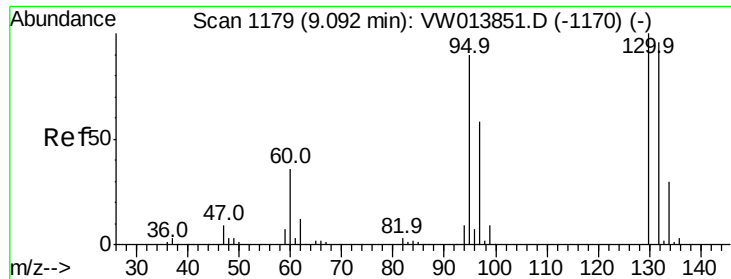
Acq: 31 Oct 2019 11:03

Tgt Ion: 78 Resp: 101024



Abundance Ion 78.00 (77.70 to 78.70): VW

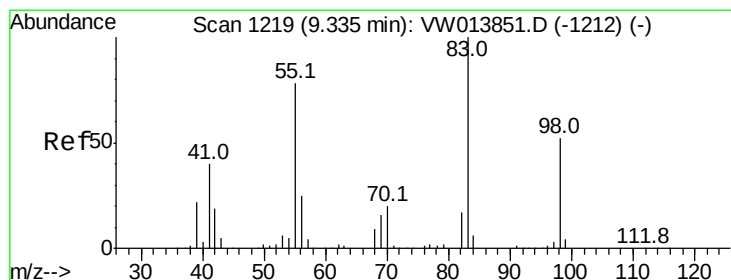
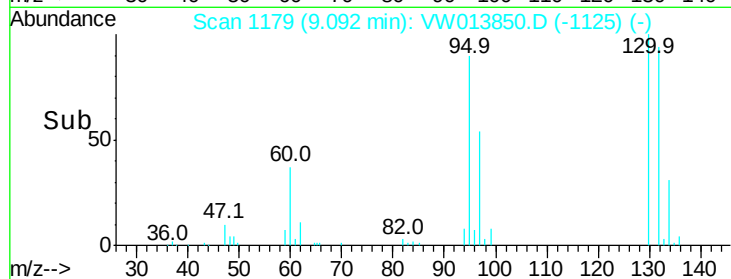
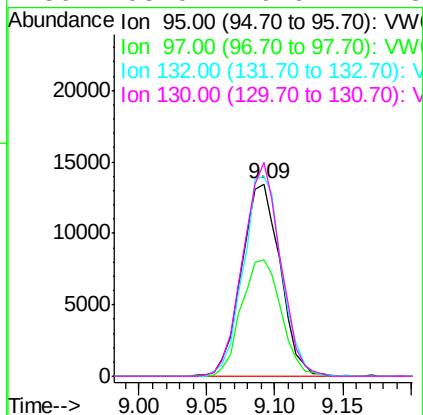
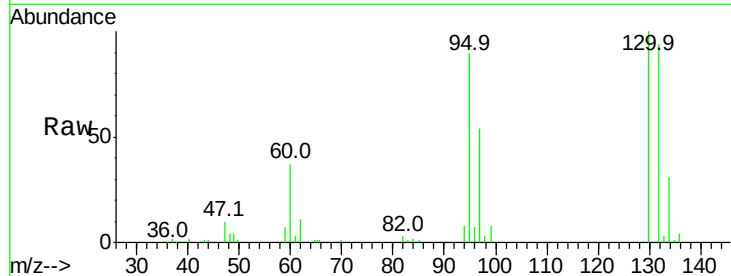




#35
 Trichloroethene
 Concen: 4.921 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW013850.D
 Acq: 31 Oct 2019 11:03

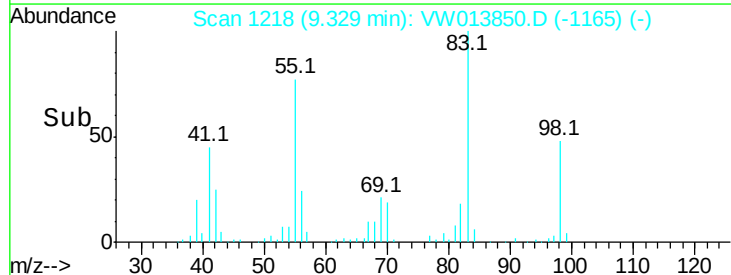
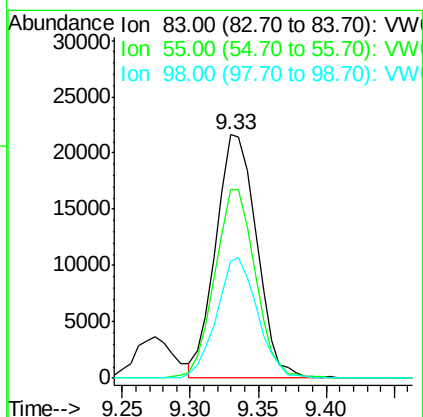
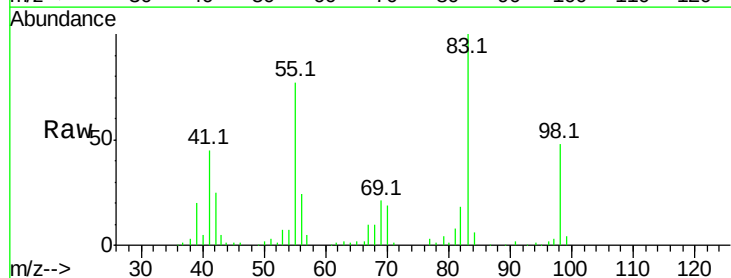
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD00505

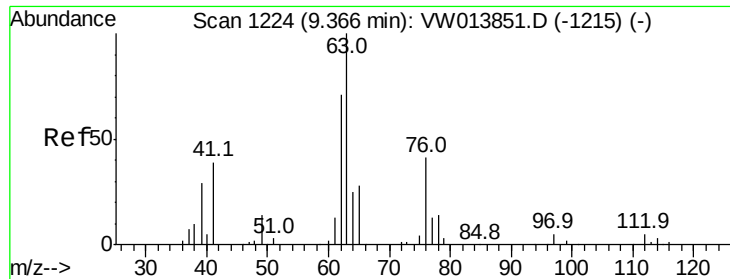
Tgt Ion: 95 Resp: 26727
 Ion Ratio Lower Upper
 95 100
 97 62.5 45.0 83.6
 132 103.6 72.4 134.4
 130 108.0 76.6 142.3



#36
 Methylcyclohexane
 Concen: 4.742 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VW013850.D
 Acq: 31 Oct 2019 11:03

Tgt Ion: 83 Resp: 45392
 Ion Ratio Lower Upper
 83 100
 55 76.7 60.3 90.5
 98 49.1 39.4 59.2





#40

1,2-Dichloropropane

Concen: 4.866 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

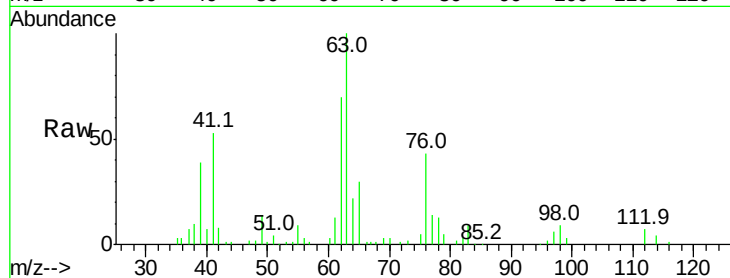
VSTD00505

Tgt Ion: 63 Resp: 25184

Ion Ratio Lower Upper

63 100

112 5.5 4.1 6.1



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V

9.37

15000

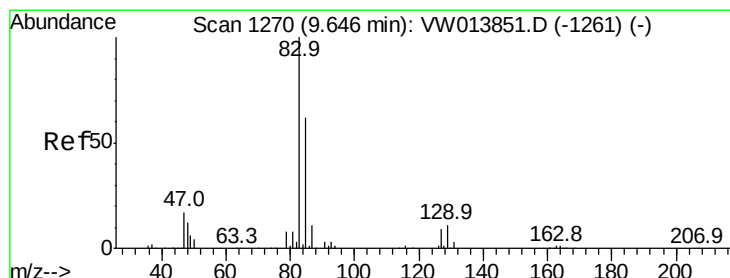
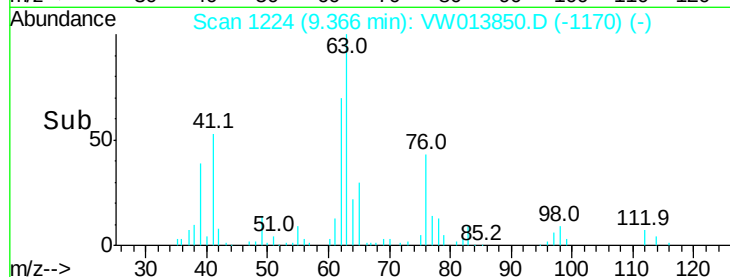
10000

5000

0

9.30 9.35 9.40 9.45

Time-->



#41

Bromodichloromethane

Concen: 4.875 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

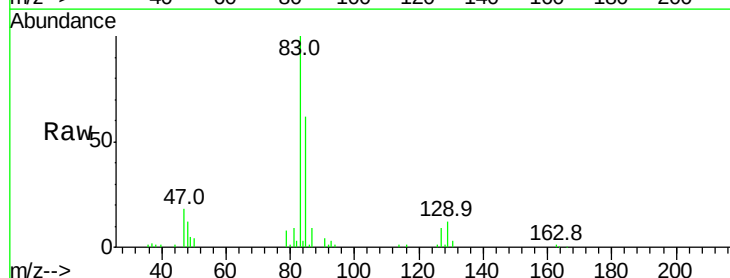
Tgt Ion: 83 Resp: 30915

Ion Ratio Lower Upper

83 100

85 61.9 43.5 80.7

127 8.7 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

9.65

20000

15000

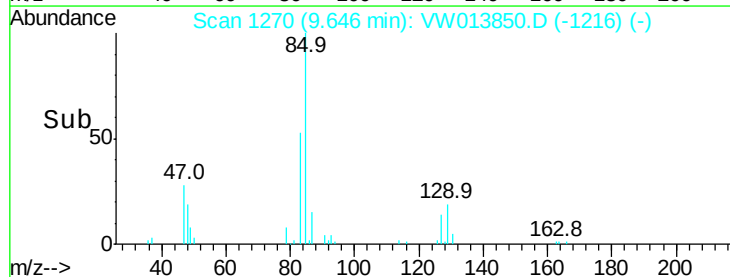
10000

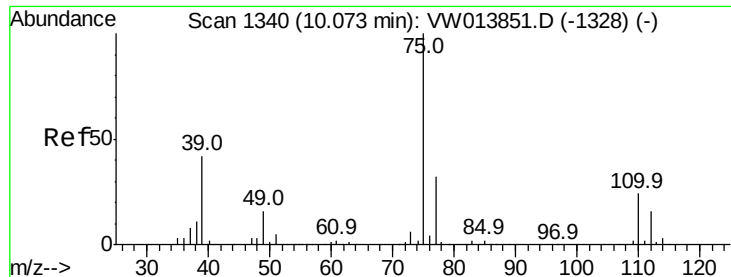
5000

0

9.55 9.60 9.65 9.70

Time-->





#42

cis-1,3-Dichloropropene

Concen: 4.618 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

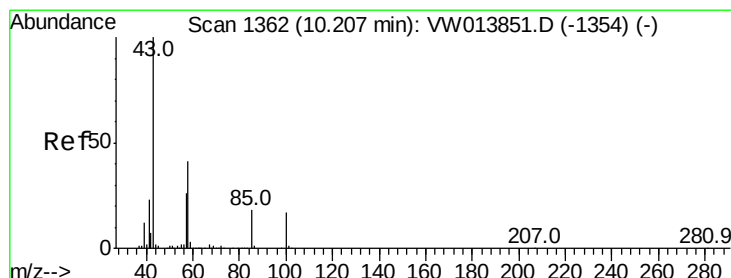
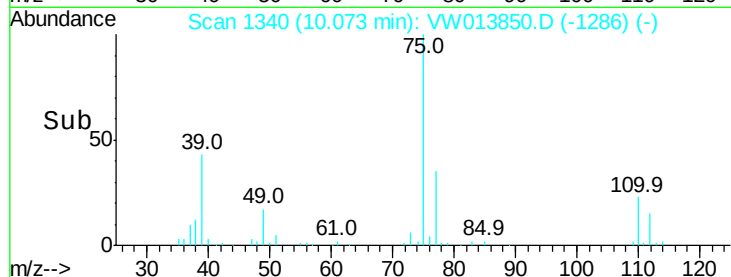
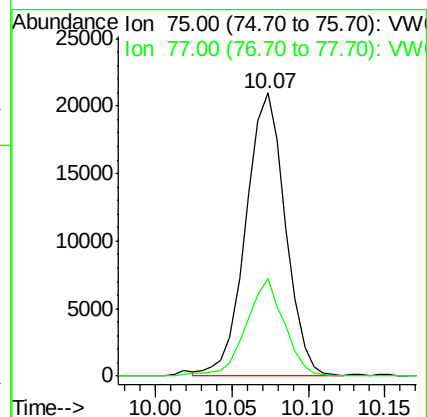
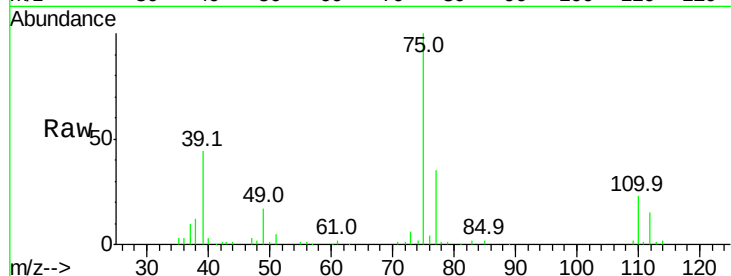
VSTD00505

Tgt Ion: 75 Resp: 37736

Ion Ratio Lower Upper

75 100

77 34.5 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 11.040 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

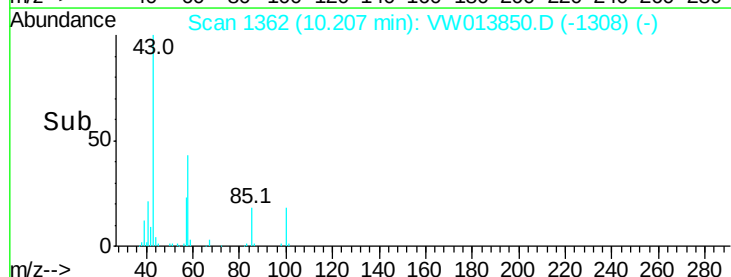
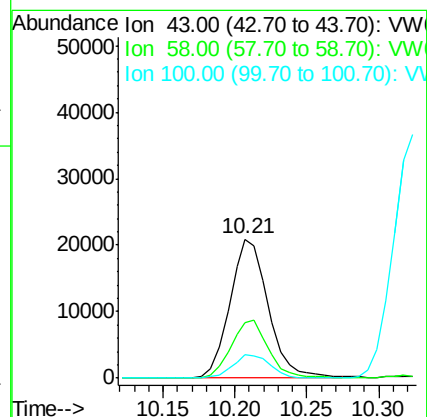
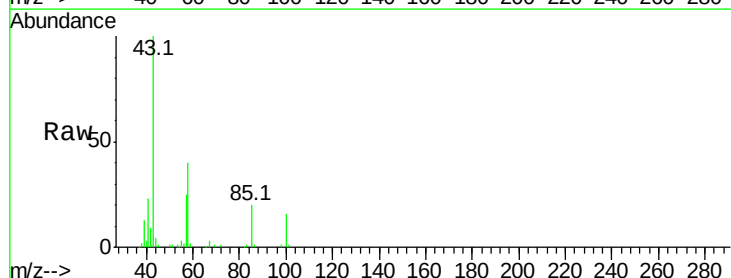
Tgt Ion: 43 Resp: 38981

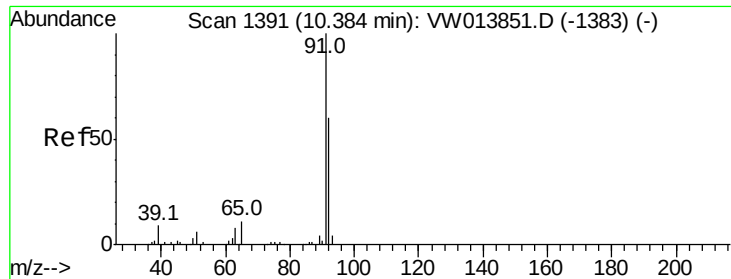
Ion Ratio Lower Upper

43 100

58 40.5 32.1 48.1

100 16.5 13.4 20.0

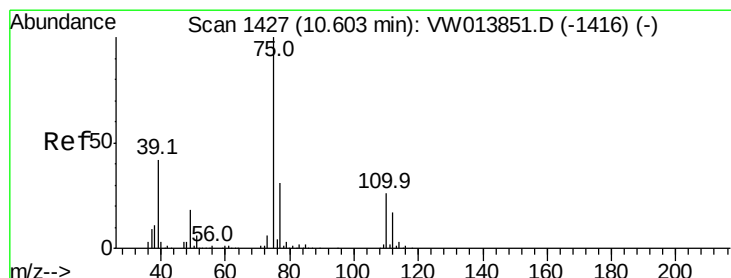
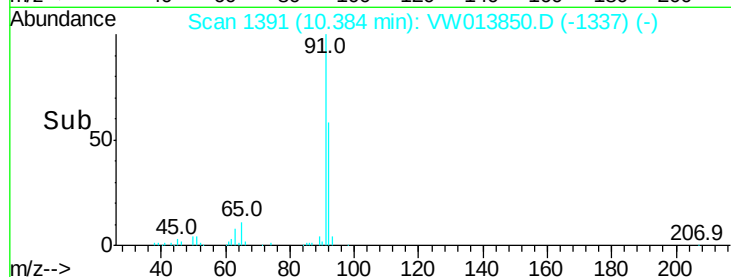
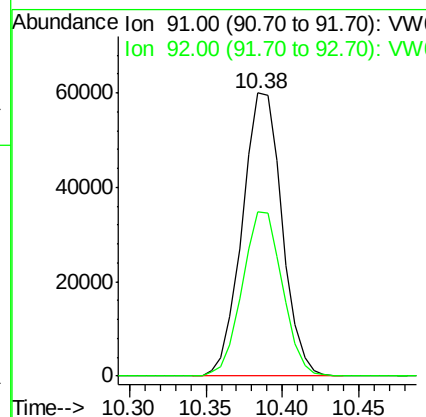
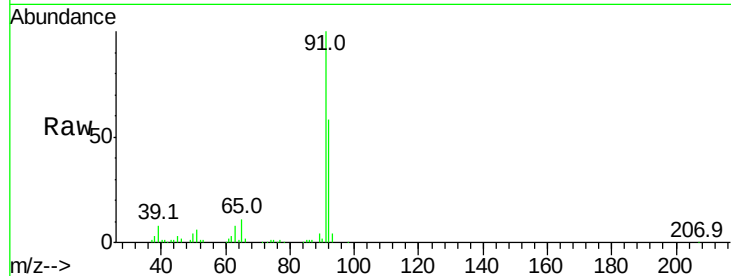




#44
Toluene
Concen: 4.767 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

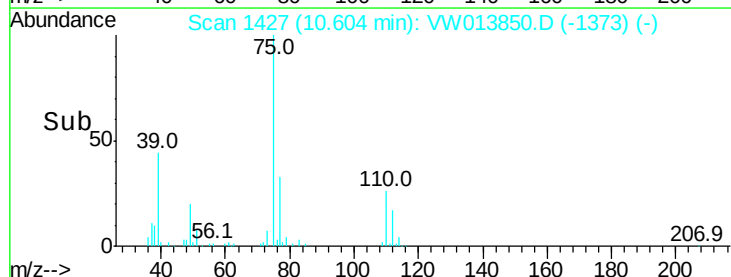
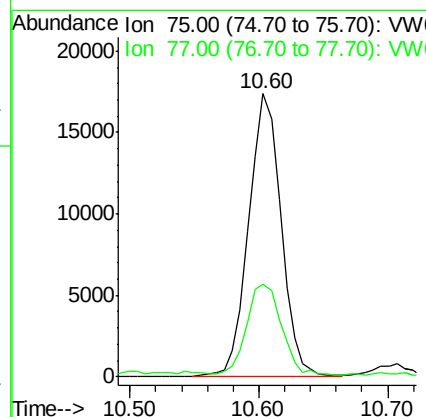
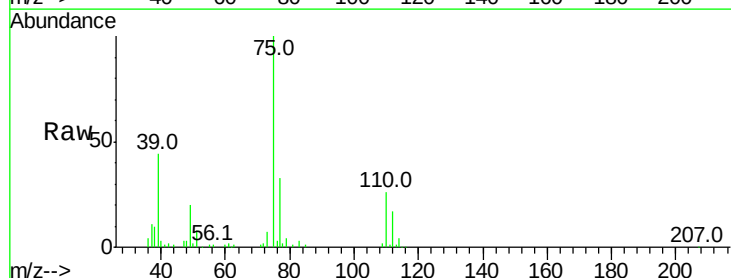
Instrument :
MSVOA_W
ClientSampled :
VSTD00505

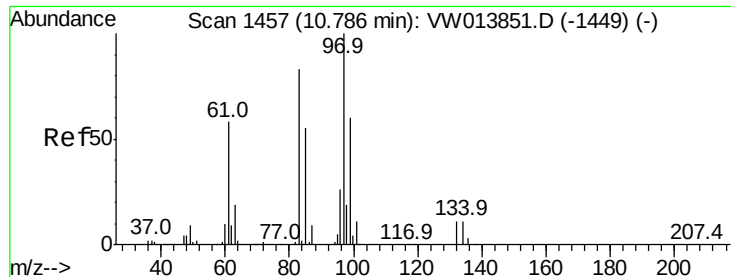
Tgt Ion: 91 Resp: 108411
Ion Ratio Lower Upper
91 100
92 57.9 42.0 78.0



#45
trans-1,3-Dichloropropene
Concen: 4.600 ug/L
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

Tgt Ion: 75 Resp: 30341
Ion Ratio Lower Upper
75 100
77 32.9 21.9 40.7





#46

1,1,2-Trichloroethane

Concen: 5.151 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD00505

Tgt Ion: 97 Resp: 20562

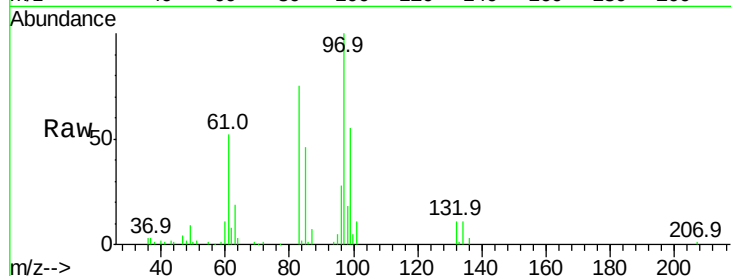
Ion Ratio Lower Upper

97 100

83 74.7 57.8 107.4

85 45.7 38.3 71.1

99 55.3 42.2 78.4

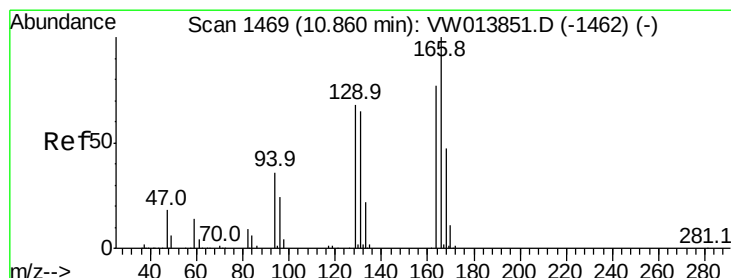
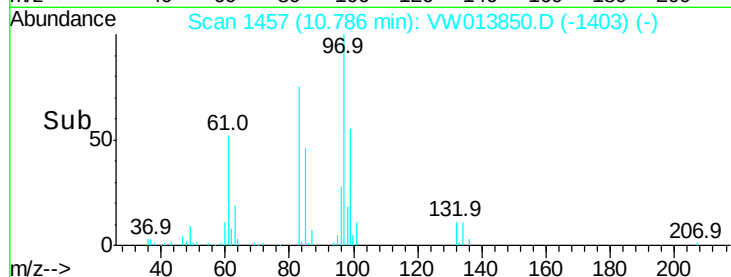
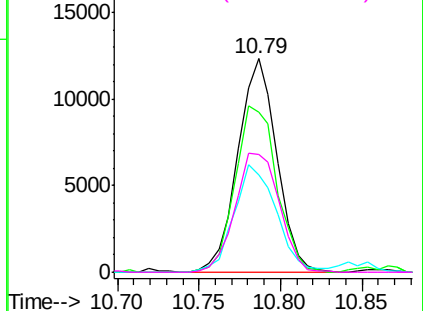


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 4.891 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Tgt Ion: 164 Resp: 24315

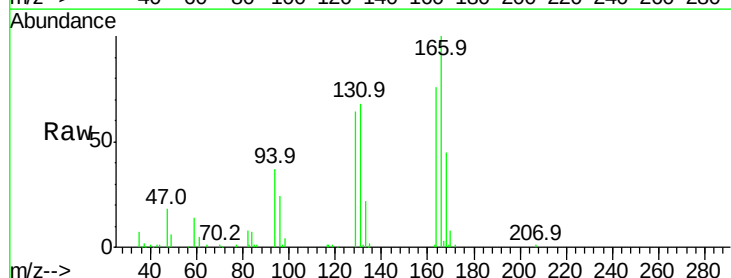
Ion Ratio Lower Upper

164 100

129 84.6 62.5 116.1

131 89.4 59.8 111.0

166 132.0 91.6 170.0

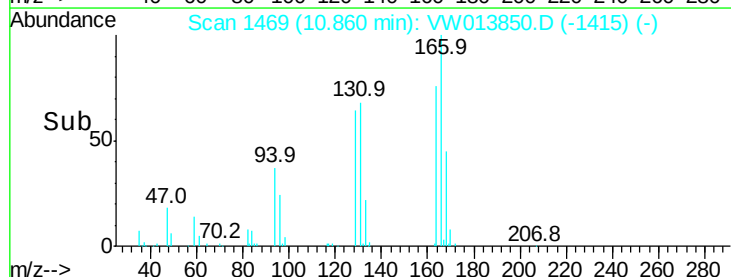
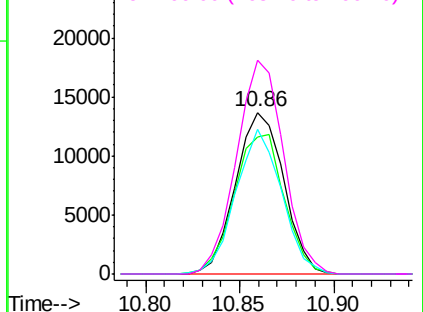


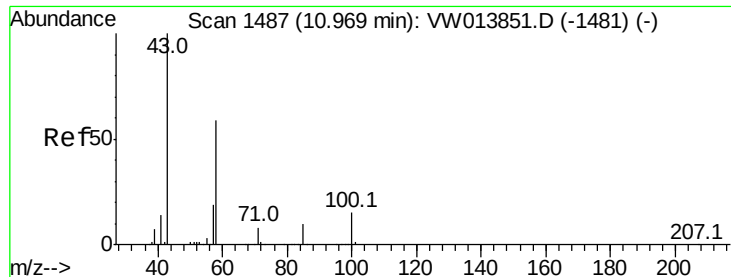
Abundance Ion 164.00 (163.70 to 164.70): V

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

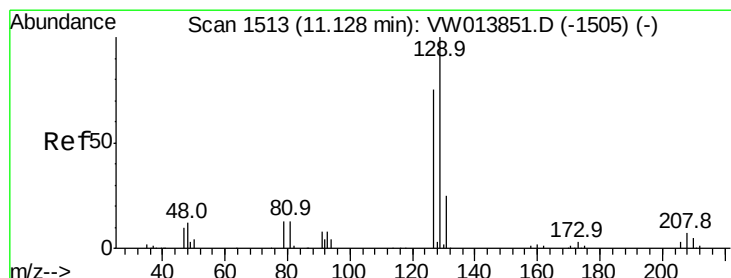
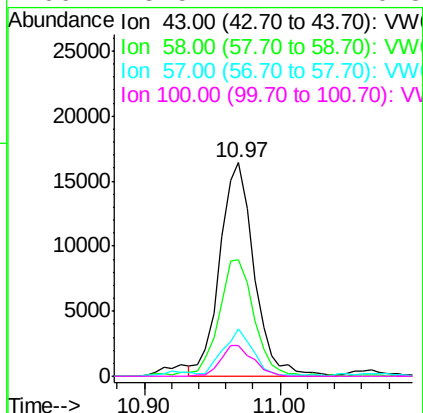
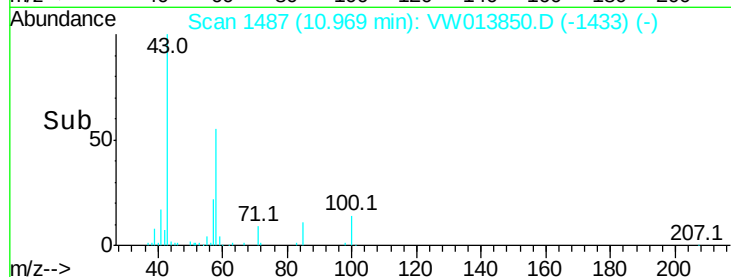
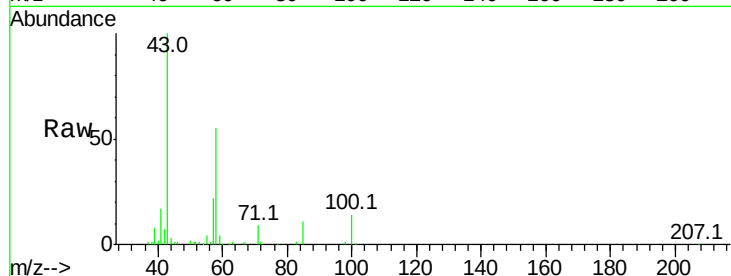




#49
2-Hexanone
Concen: 11.479 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

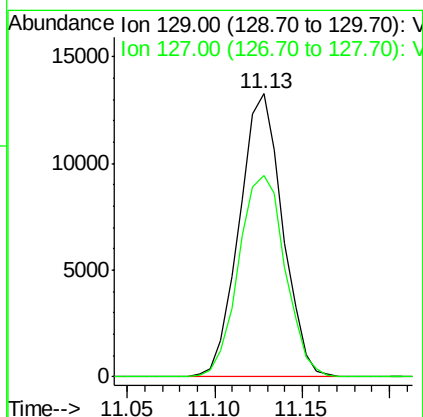
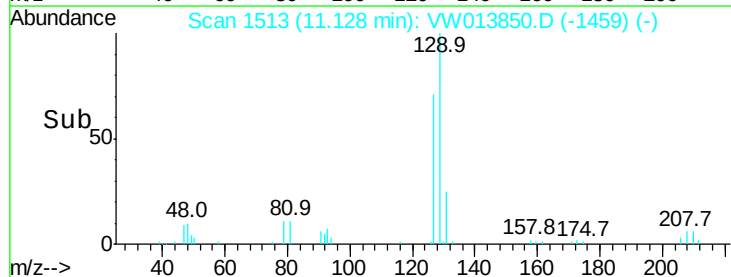
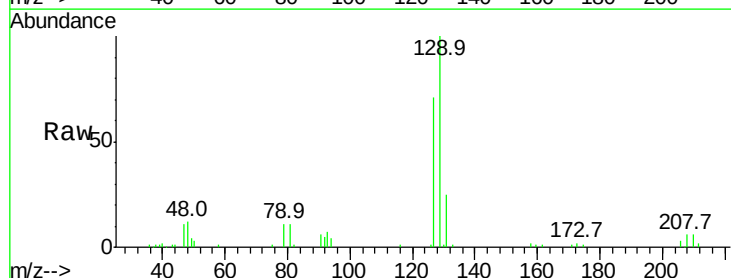
Instrument :
MSVOA_W
ClientSampleId :
VSTD00505

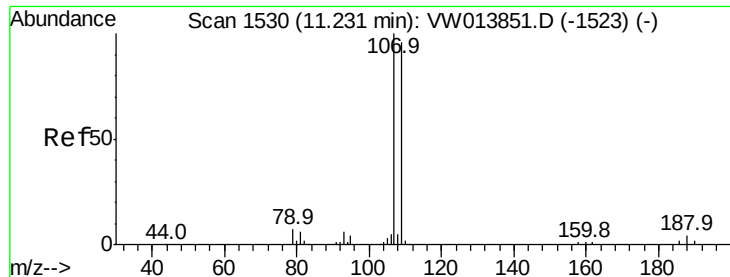
Tgt Ion: 43 Resp: 28755
Ion Ratio Lower Upper
43 100
58 55.1 47.0 70.4
57 19.0 16.0 24.0
100 13.5 11.2 16.8



#50
Dibromochloromethane
Concen: 4.852 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

Tgt Ion: 129 Resp: 22854
Ion Ratio Lower Upper
129 100
127 71.1 52.6 97.8

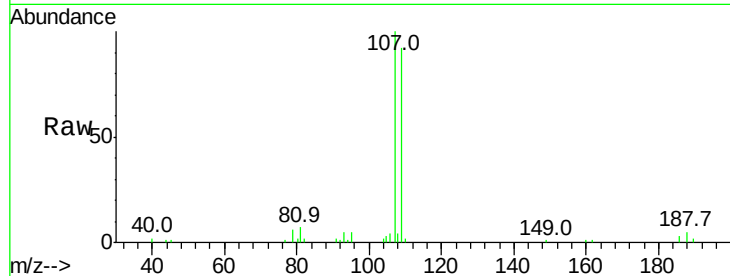




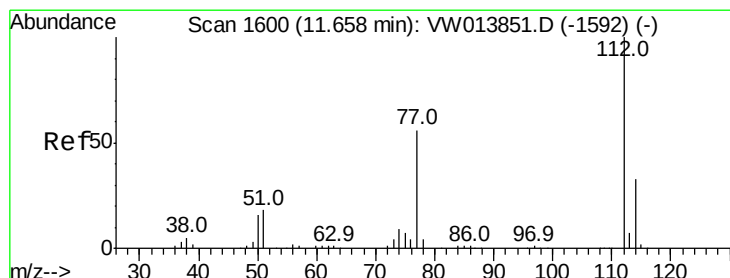
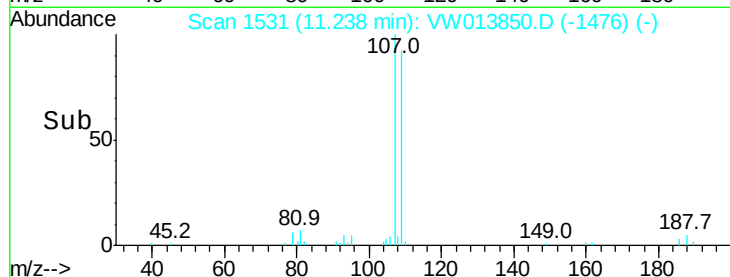
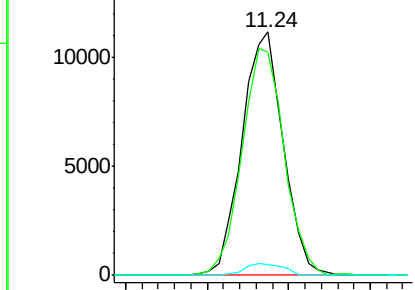
#51
1,2-Dibromoethane
Concen: 5.070 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.01 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

Instrument :
MSVOA_W
ClientSampleId :
VSTD00505

Tgt Ion:107 Resp: 19680
Ion Ratio Lower Upper
107 100
109 91.7 67.3 124.9
188 4.5 3.5 5.3

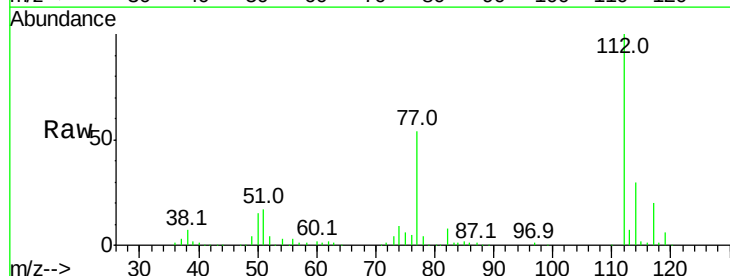


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

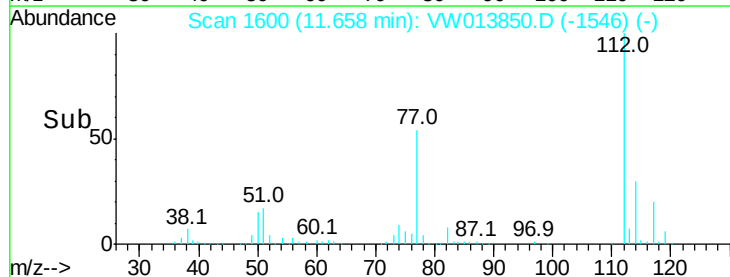
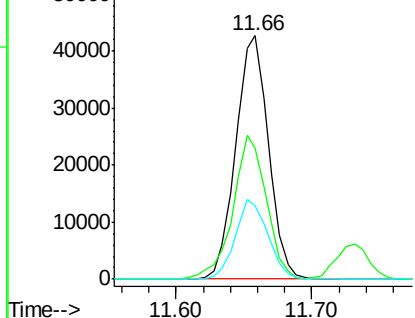


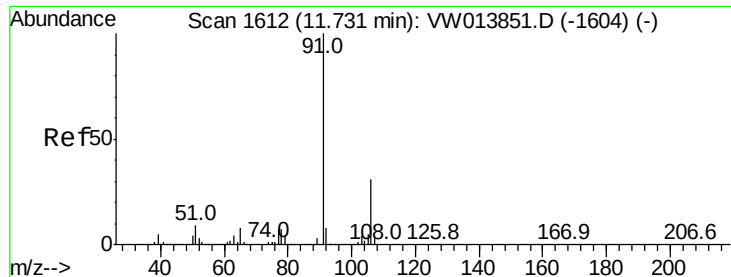
#52
Chlorobenzene
Concen: 4.916 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

Tgt Ion:112 Resp: 71529
Ion Ratio Lower Upper
112 100
77 53.9 44.7 67.1
114 29.9 23.1 42.9



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





#53

Ethylbenzene

Concen: 4.716 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

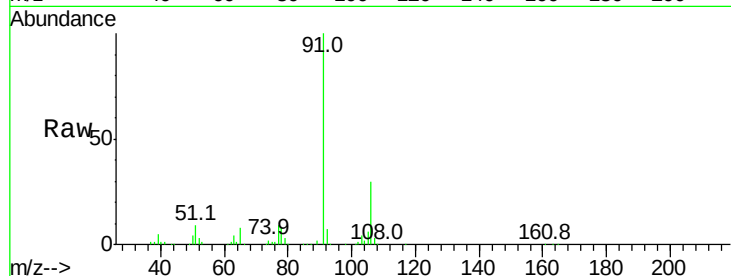
VSTD00505

Tgt Ion: 91 Resp: 118488

Ion Ratio Lower Upper

91 100

106 30.3 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

11.73

80000

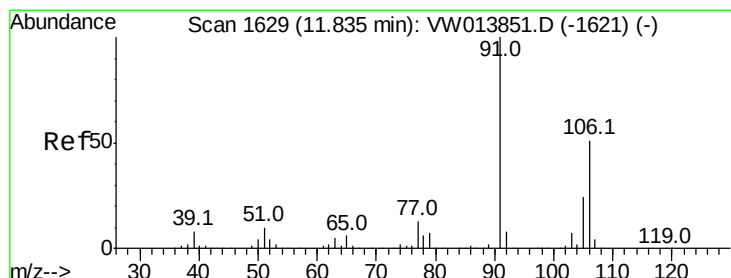
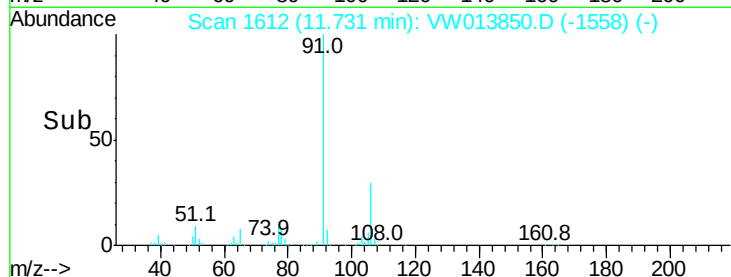
60000

40000

20000

0

Time--> 11.65 11.70 11.75



#54

m,p-Xylene

Concen: 4.795 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW013850.D

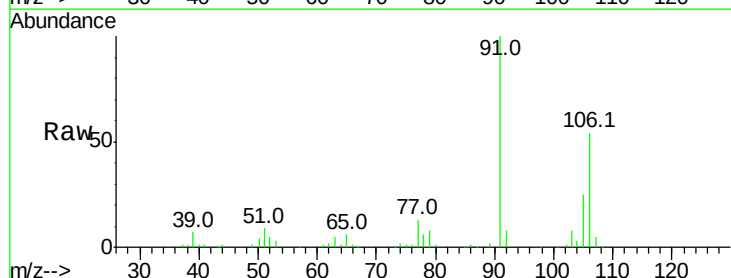
Acq: 31 Oct 2019 11:03

Tgt Ion: 106 Resp: 46557

Ion Ratio Lower Upper

106 100

91 183.6 136.6 253.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

11.84

50000

40000

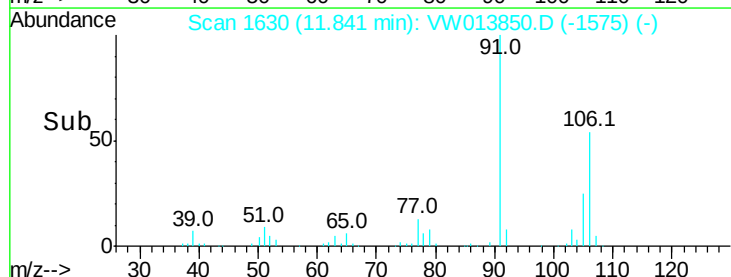
30000

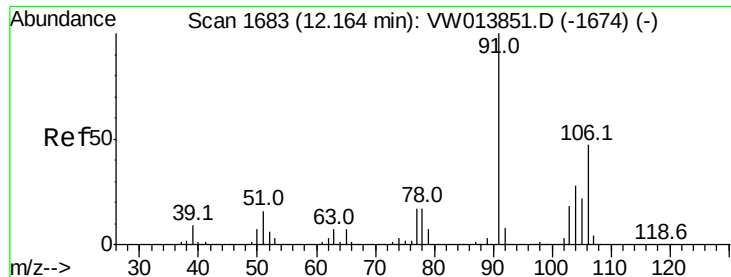
20000

10000

0

Time--> 11.75 11.80 11.85 11.90

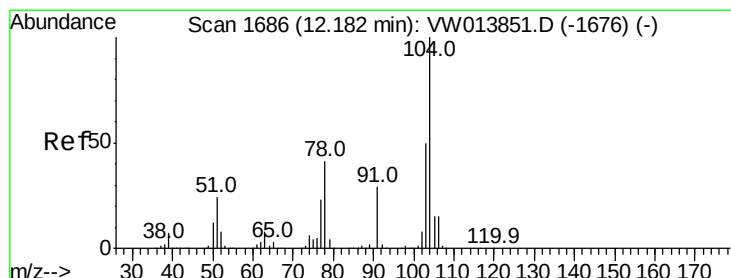
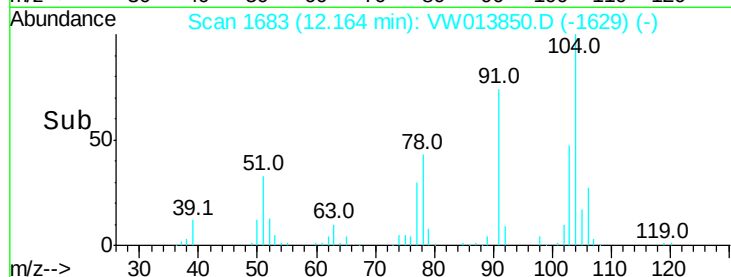
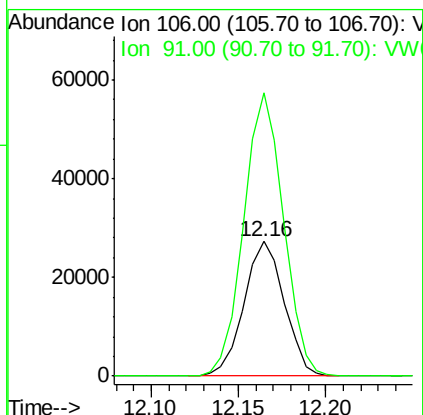
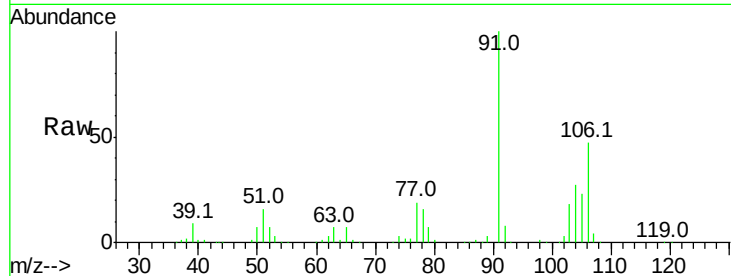




#55
o-xylene
Concen: 4.737 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

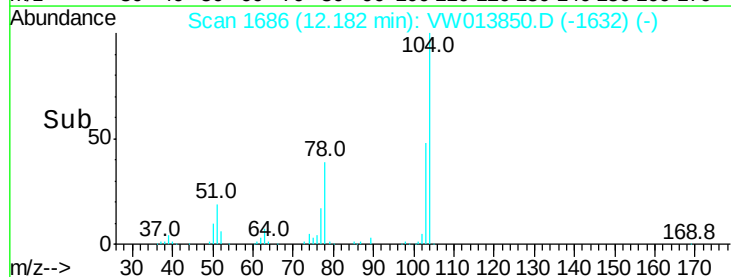
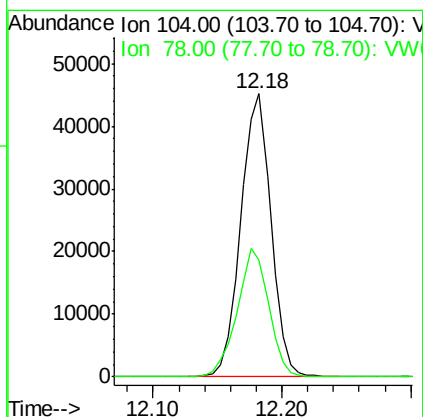
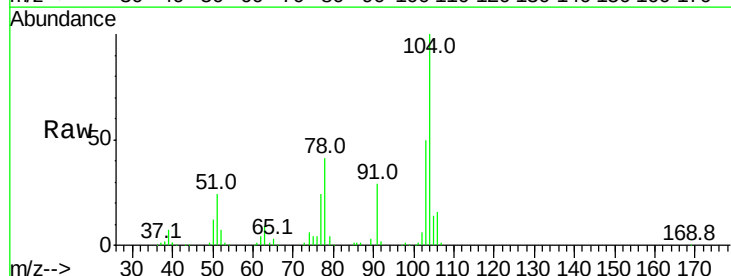
Instrument :
MSVOA_W
ClientSampled :
VSTD00505

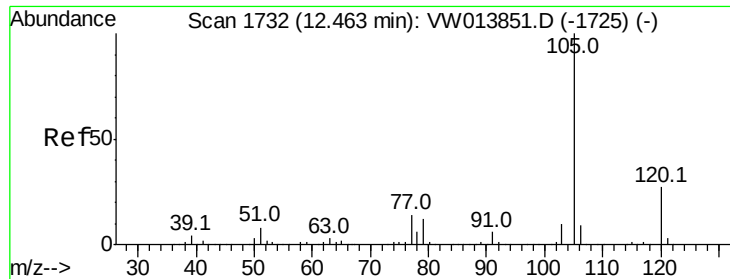
Tgt Ion:106 Resp: 43648
Ion Ratio Lower Upper
106 100
91 210.7 148.0 274.8



#56
Styrene
Concen: 4.632 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013850.D
Acq: 31 Oct 2019 11:03

Tgt Ion:104 Resp: 73007
Ion Ratio Lower Upper
104 100
78 41.5 28.9 53.7





#57

Isopropylbenzene

Concen: 4.686 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD00505

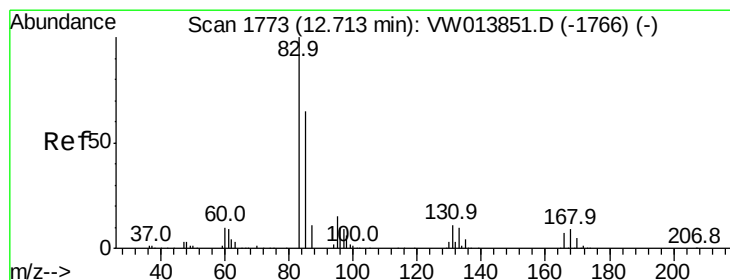
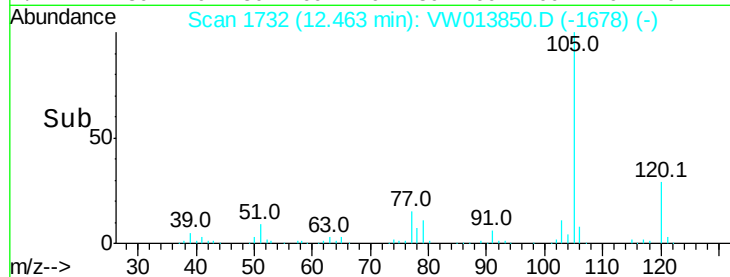
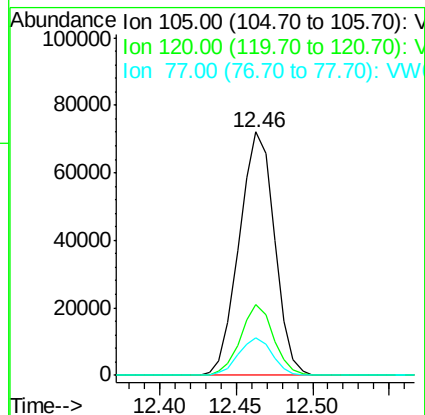
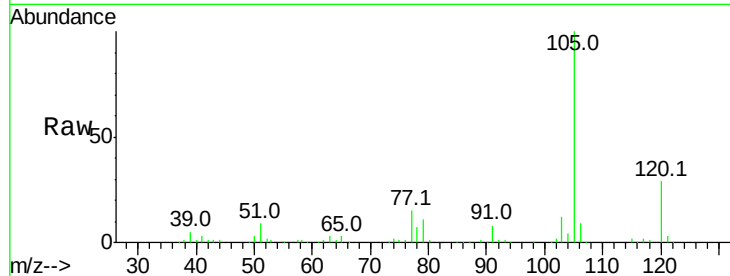
Tgt Ion: 105 Resp: 115812

Ion Ratio Lower Upper

105 100

120 27.3 21.7 32.5

77 14.8 11.7 17.5



#58

1,1,2,2-Tetrachloroethane

Concen: 5.512 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

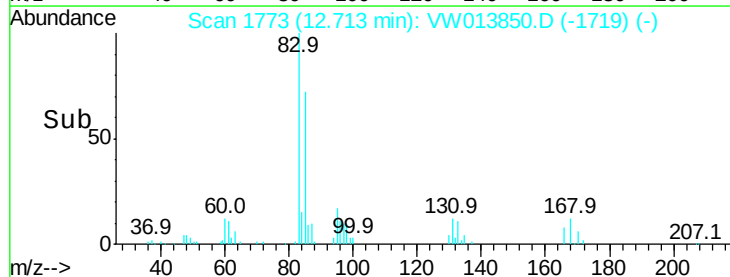
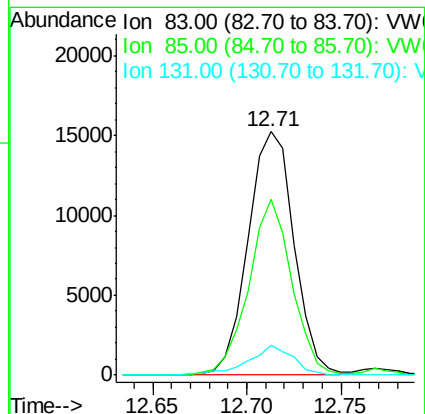
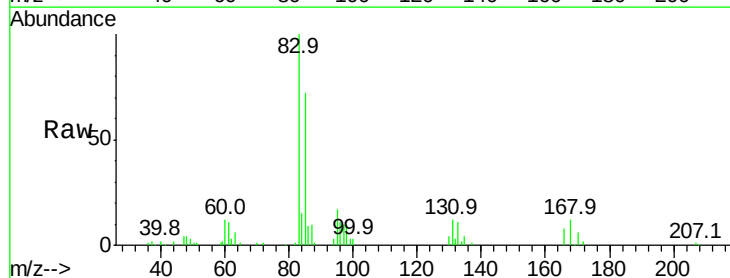
Tgt Ion: 83 Resp: 25787

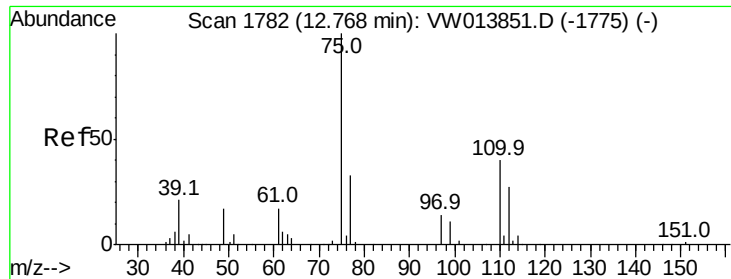
Ion Ratio Lower Upper

83 100

85 72.2 46.1 85.7

131 12.4 9.0 13.6





#59

1,2,3-Trichloropropane

Concen: 5.715 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

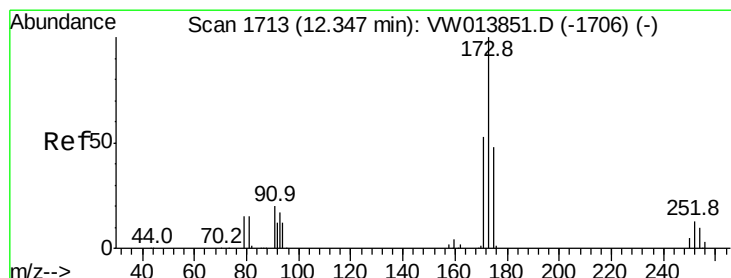
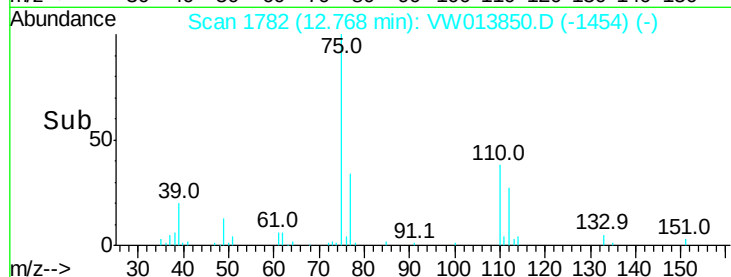
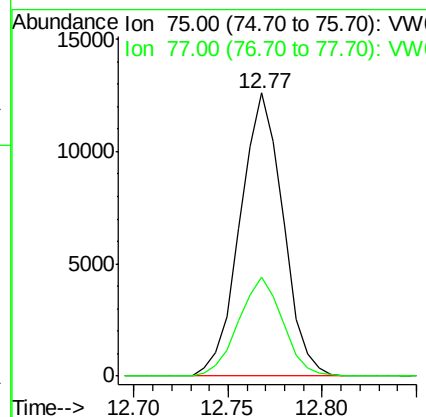
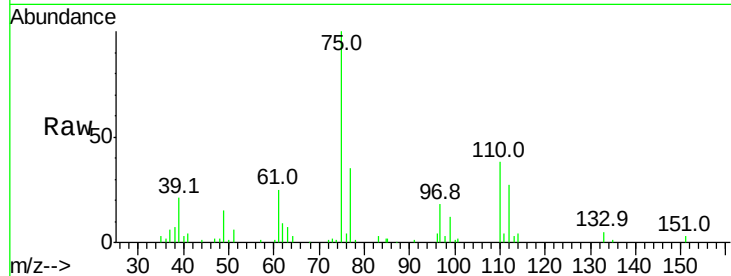
VSTD00505

Tgt Ion: 75 Resp: 19938

Ion Ratio Lower Upper

75 100

77 35.8 25.8 38.8



#62

Bromoform

Concen: 4.904 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

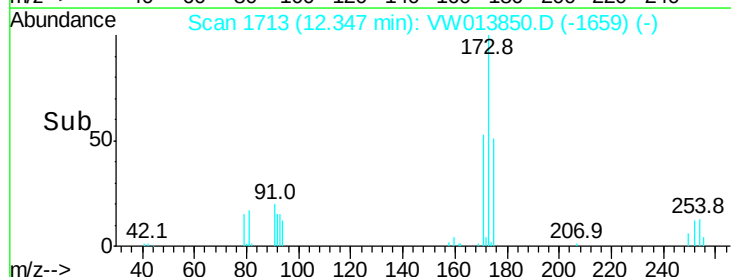
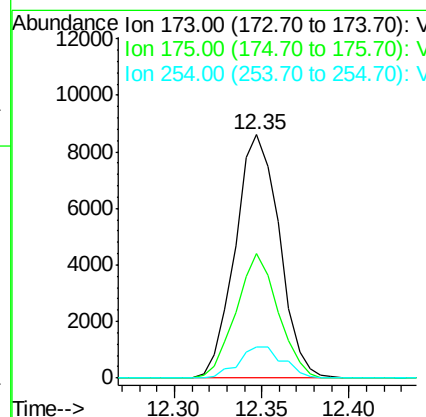
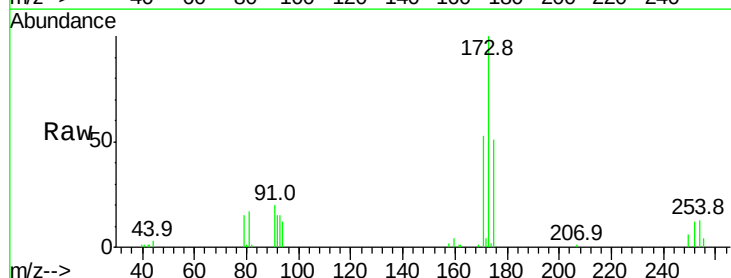
Tgt Ion: 173 Resp: 15160

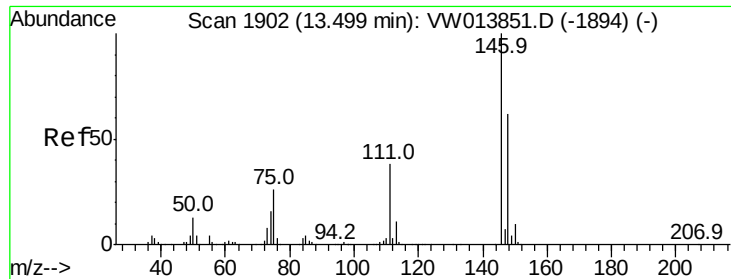
Ion Ratio Lower Upper

173 100

175 48.4 39.1 58.7

254 13.0 9.4 14.2

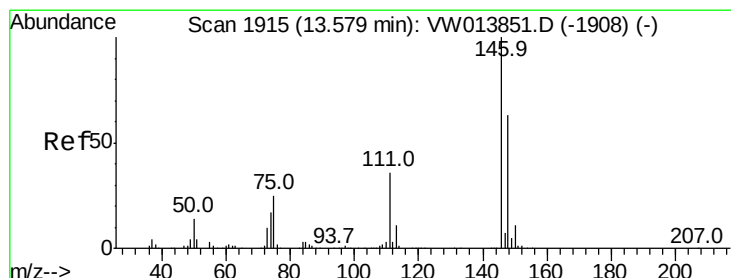
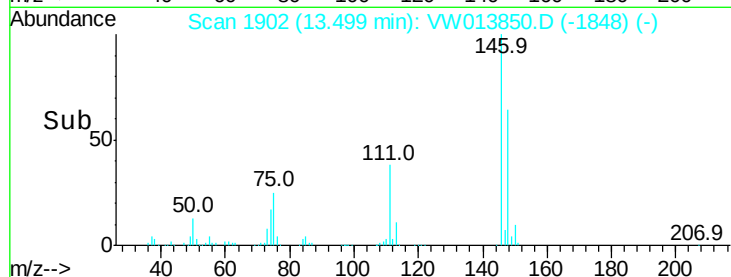
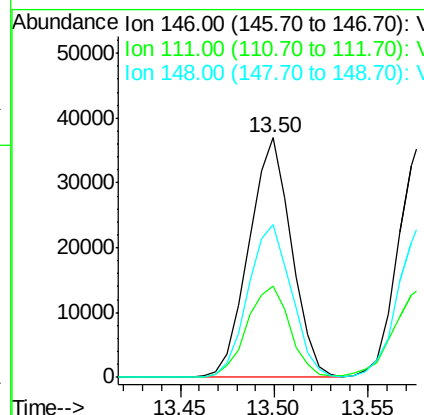
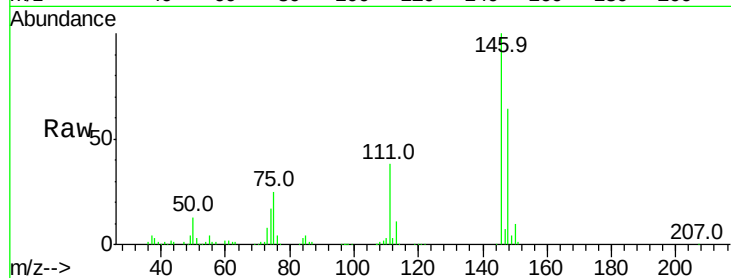




#63
 1,3-Dichlorobenzene
 Concen: 4.735 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013850.D
 Acq: 31 Oct 2019 11:03

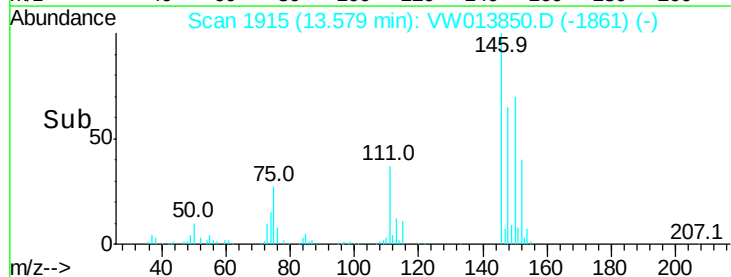
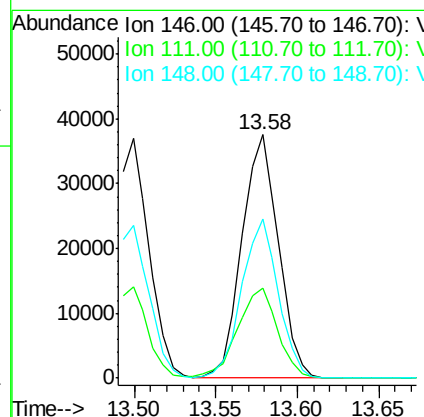
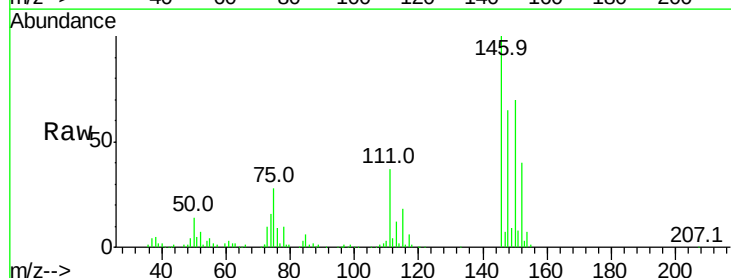
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00505

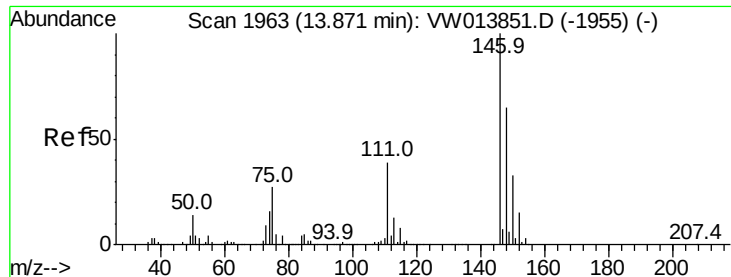
Tgt Ion:146 Resp: 57963
 Ion Ratio Lower Upper
 146 100
 111 38.4 26.5 49.1
 148 63.6 43.7 81.1



#64
 1,4-Dichlorobenzene
 Concen: 4.779 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013850.D
 Acq: 31 Oct 2019 11:03

Tgt Ion:146 Resp: 58780
 Ion Ratio Lower Upper
 146 100
 111 37.0 25.0 46.4
 148 65.5 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 4.815 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD00505

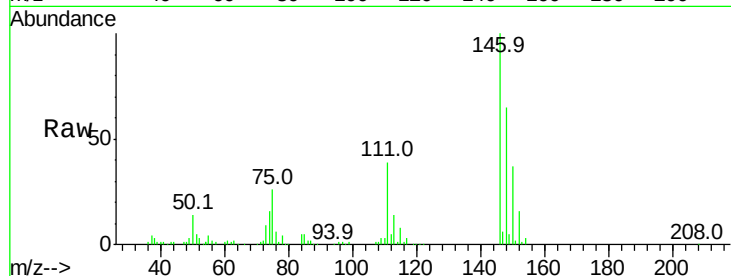
Tgt Ion:146 Resp: 53404

Ion Ratio Lower Upper

146 100

111 38.6 31.0 46.4

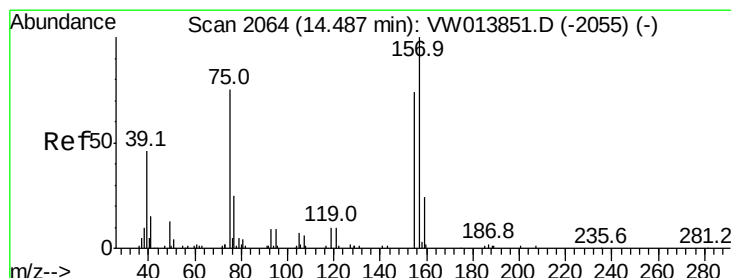
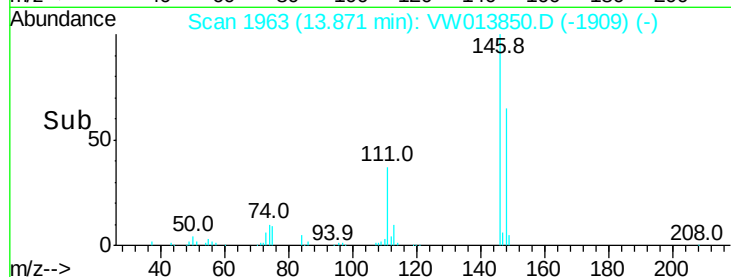
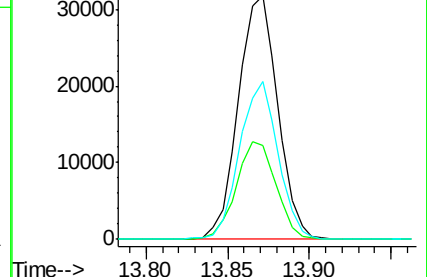
148 64.9 51.8 77.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.722 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

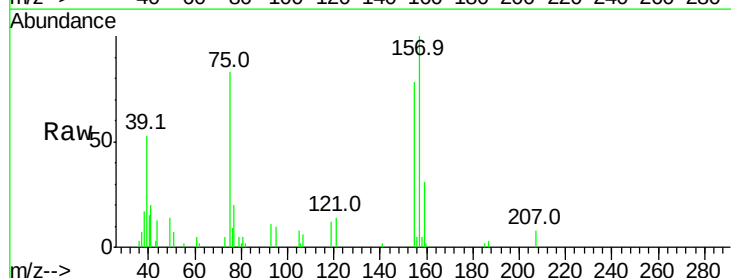
Tgt Ion: 75 Resp: 4362

Ion Ratio Lower Upper

75 100

157 121.1 106.2 159.2

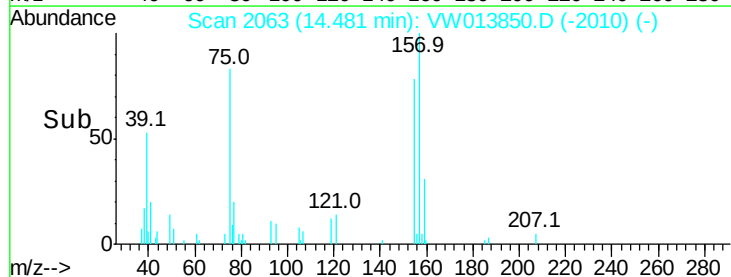
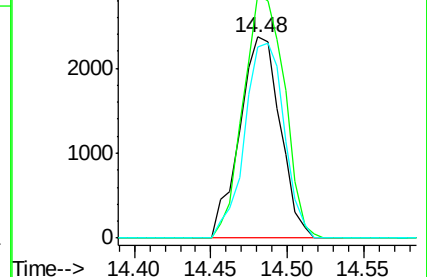
155 94.9 78.8 118.2

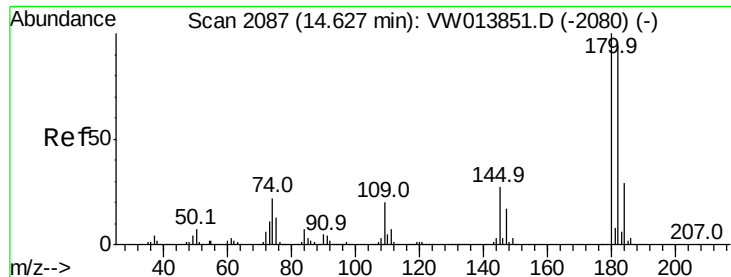


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

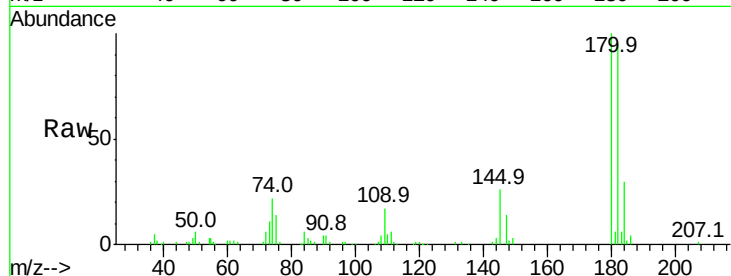




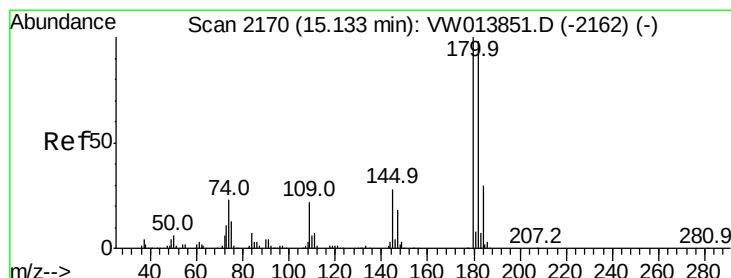
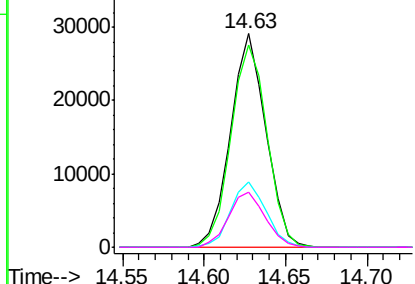
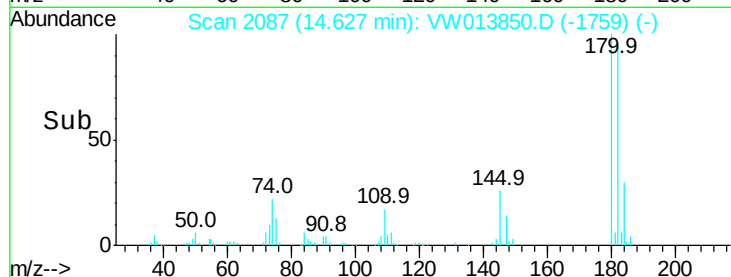
#67
 1,3,5-Trichlorobenzene
 Concen: 4.817 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013850.D
 Acq: 31 Oct 2019 11:03

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00505

Tgt Ion:180 Resp: 43839
 Ion Ratio Lower Upper
 180 100
 182 97.0 76.2 114.4
 184 30.4 24.1 36.1
 145 27.0 21.7 32.5

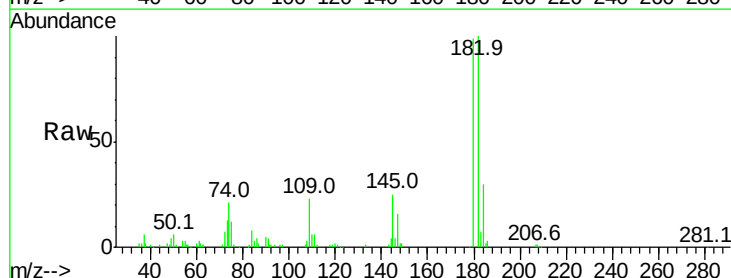


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

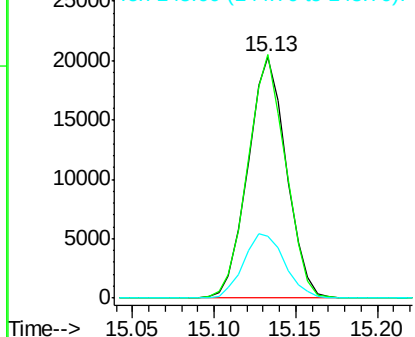
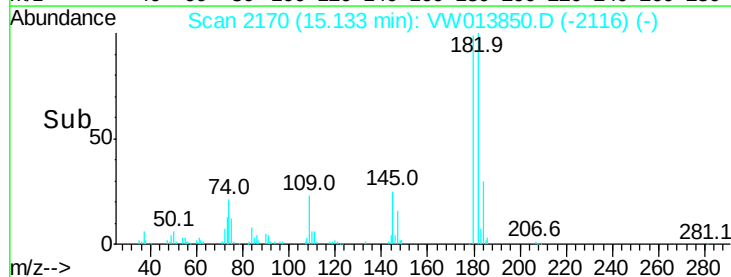


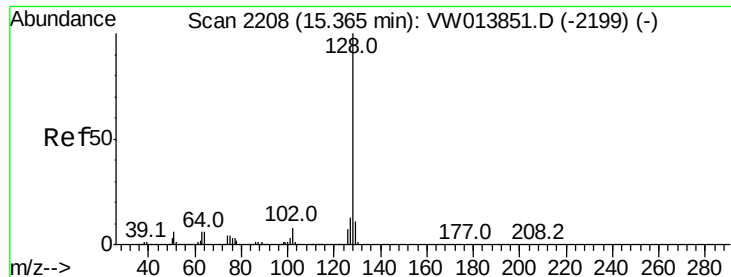
#68
 1,2,4-trichlorobenzene
 Concen: 4.319 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013850.D
 Acq: 31 Oct 2019 11:03

Tgt Ion:180 Resp: 33368
 Ion Ratio Lower Upper
 180 100
 182 99.2 74.8 112.2
 145 28.4 22.4 33.6



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





#69

Naphthalene

Concen: 4.251 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD00505

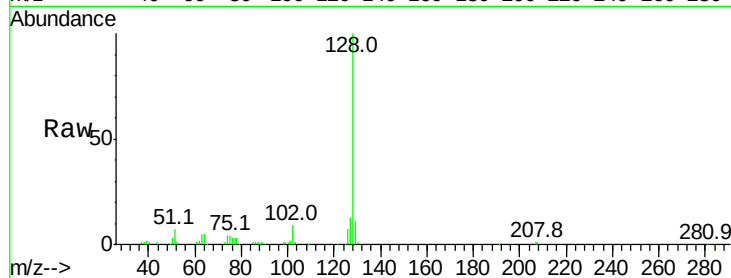
Tgt Ion:128 Resp: 59517

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

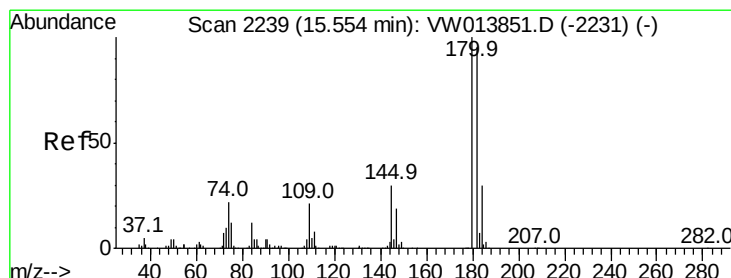
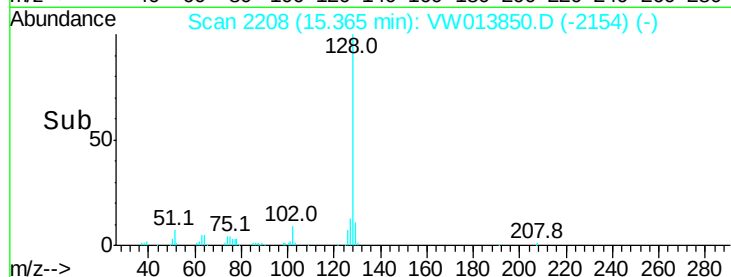
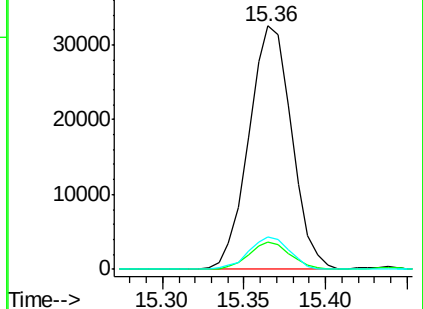
127 12.8 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.662 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW013850.D

Acq: 31 Oct 2019 11:03

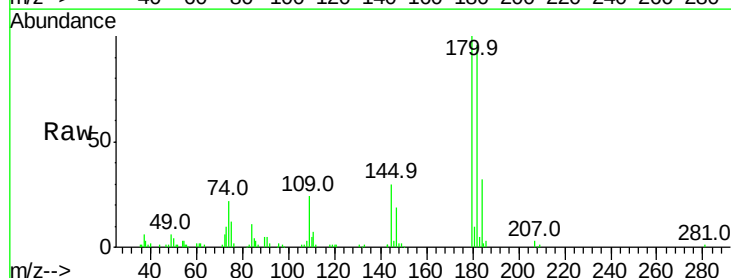
Tgt Ion:180 Resp: 32256

Ion Ratio Lower Upper

180 100

182 92.5 78.0 117.0

145 29.0 23.9 35.9



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

