

Data File : VW015024.D
Acq On : 24 Feb 2020 10:35
Operator : SY/VA
Sample : VSTD00528
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

Quant Time: Feb 24 11:40:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022420S.M
Quant Title : VOC Analysis
QLast Update : Mon Feb 24 11:37:55 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	693769	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	658237	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	282536	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	91791	7.99	ug/L	0.00
7) Chloroethane-d5	2.89	69	65417	7.11	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	135860	6.47	ug/L	0.00
20) 2-Butanone-d5	7.07	46	29845	9.26	ug/L	0.00
24) Chloroform-d	7.65	84	118254	6.00	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	68854	6.32	ug/L	0.00
29) Benzene-d6	8.27	84	228405	5.40	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	75752	5.49	ug/L	0.00
37) Toluene-d8	10.32	98	179427	4.82	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	27358	5.02	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	18223	7.25	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	51324	4.94	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	51657	4.71	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	26500	3.715 ug/L	98
3) Chloromethane	2.21	50	68594	6.347 ug/L	100
5) Vinyl chloride	2.36	62	93147	6.601 ug/L	99
6) Bromomethane	2.78	94	42161	5.975 ug/L	99
8) Chloroethane	2.93	64	47603	6.165 ug/L	99
9) Trichlorofluoromethane	3.26	101	36518	6.402 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	55132	5.475 ug/L	99
12) 1,1-Dichloroethene	4.04	96	50387	5.120 ug/L #	73
13) Acetone	4.12	43	33533	10.079 ug/L	96
14) Carbon disulfide	4.39	76	201616	6.823 ug/L	98
15) Methyl Acetate	4.67	43	30457	5.563 ug/L	97
16) Methylene chloride	4.92	84	68499	5.420 ug/L	97
17) Methyl tert-butyl Ether	5.43	73	60063	4.672 ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	53086	5.324 ug/L	98
19) 1,1-Dichloroethane	6.21	63	121599	6.019 ug/L	99
21) 2-Butanone	7.17	43	35280	9.057 ug/L	85
22) cis-1,2-Dichloroethene	7.17	96	52227	4.842 ug/L	94
23) Bromochloromethane	7.51	128	21897	4.948 ug/L	95
25) Chloroform	7.68	83	113868	6.136 ug/L	100
27) 1,2-Dichloroethane	8.40	62	78586	6.143 ug/L	99
30) Cyclohexane	7.96	56	88764	4.526 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	84855	5.654 ug/L	99
32) Carbon tetrachloride	8.07	117	77427	5.739 ug/L	100
34) Benzene	8.32	78	242299	5.353 ug/L	100
35) Trichloroethene	9.09	95	59038	5.262 ug/L	98
36) Methylcyclohexane	9.34	83	87288	4.466 ug/L	96
40) 1,2-Dichloropropane	9.37	63	68568	5.661 ug/L	98
41) Bromodichloromethane	9.64	83	76532	5.513 ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	78248	4.549 ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	70287	8.849 ug/L	96

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Quant Title : VOC Analysis
QLast Update : Mon Feb 24 11:37:55 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	223568	4.865	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	66573	4.806	ug/L	93
46) 1,1,2-Trichloroethane	10.79	97	39294	4.928	ug/L	98
47) Tetrachloroethene	10.86	164	37313	4.526	ug/L	95
49) 2-Hexanone	10.96	43	47996	8.603	ug/L	94
50) Dibromochloromethane	11.13	129	39850	4.650	ug/L	97
51) 1,2-Dibromoethane	11.23	107	34017	4.585	ug/L	89
52) Chlorobenzene	11.65	112	138700	4.937	ug/L	98
53) Ethylbenzene	11.73	91	235629	4.687	ug/L	100
54) m,p-Xylene	11.84	106	82474	4.492	ug/L	97
55) o-xylene	12.16	106	72573	4.153	ug/L	97
56) Styrene	12.18	104	127496	4.317	ug/L	97
57) Isopropylbenzene	12.46	105	199067	4.241	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	50781	5.102	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	39687	5.300	ug/L	94
62) Bromoform	12.35	173	20501	4.760	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	89015	4.664	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	92407	4.807	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	82978	4.753	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	8035	5.398	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	57162	4.182	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	38940	3.606	ug/L	96
69) Naphthalene	15.36	128	31304	1.474	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	34356	3.445	ug/L	98

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

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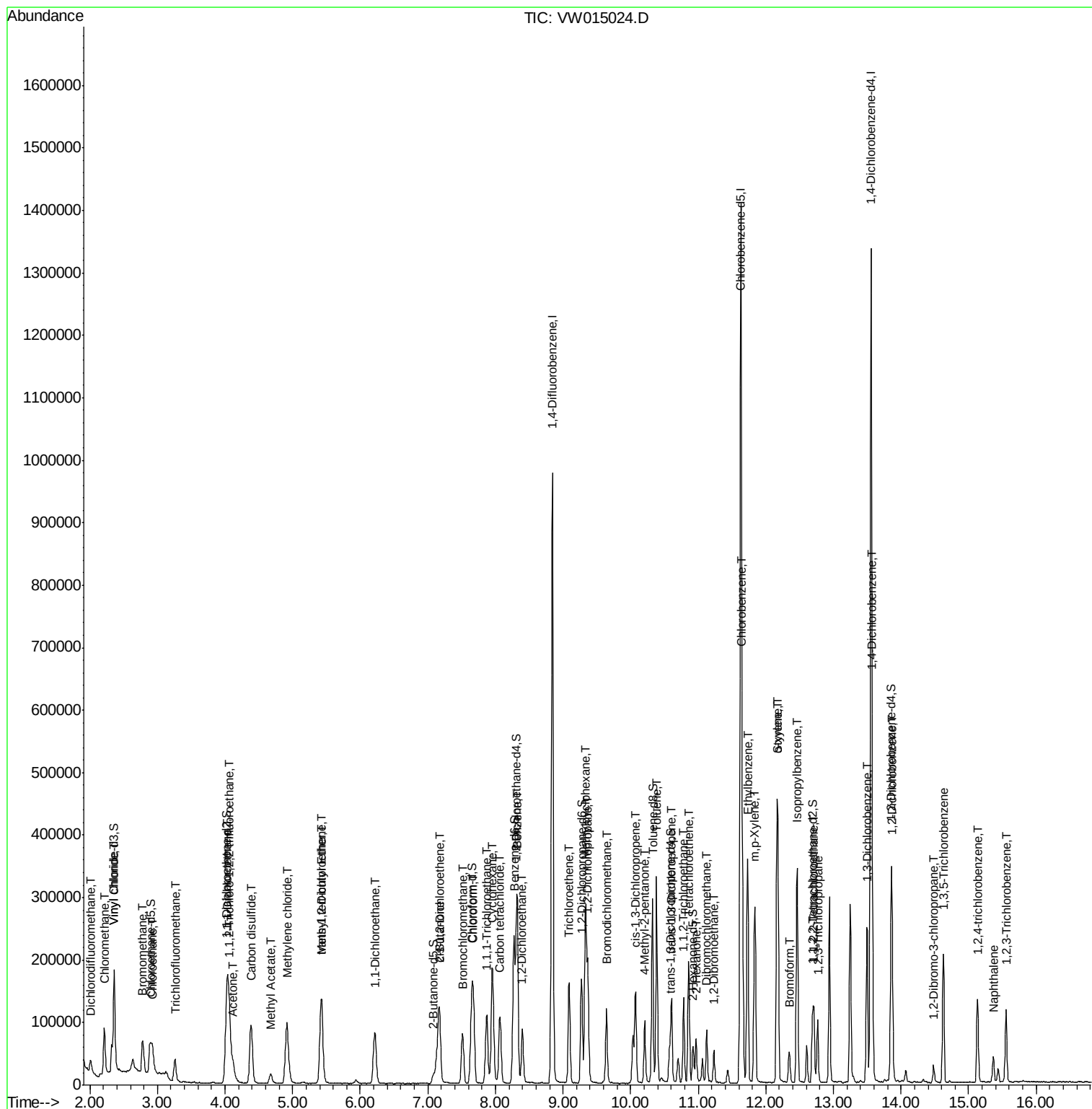
Quant Time: Feb 24 11:40:53 2020

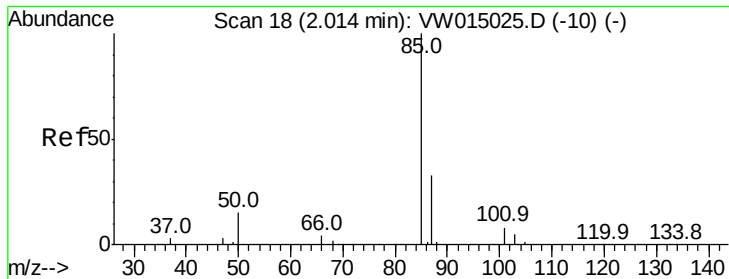
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022420S.M

Quant Title : VOC Analysis

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#2

Dichlorodifluoromethane

Concen: 3.715 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

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ClientSampleId :

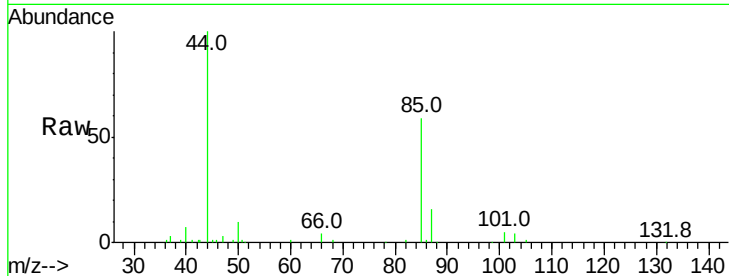
VSTD00502

Tgt Ion: 85 Resp: 26500

Ion Ratio Lower Upper

85 100

87 32.8 22.0 41.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW

2.01

12000

10000

8000

6000

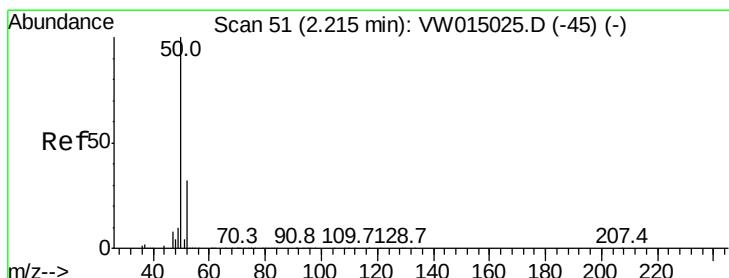
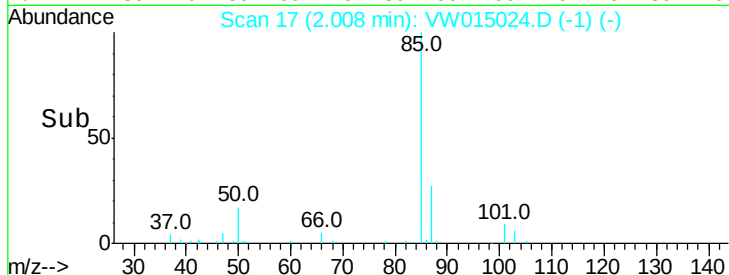
4000

2000

0

Time-->

1.95 2.00 2.05 2.10



#3

Chloromethane

Concen: 6.347 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015024.D

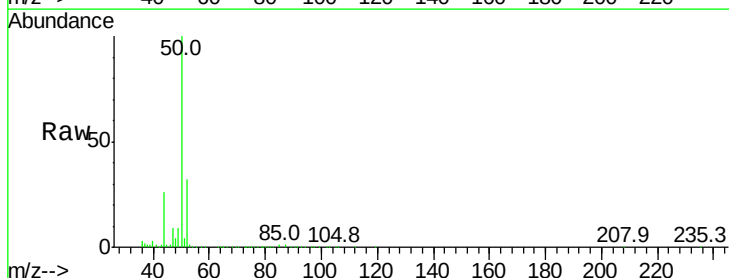
Acq: 24 Feb 2020 10:35

Tgt Ion: 50 Resp: 68594

Ion Ratio Lower Upper

50 100

52 32.0 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW

2.21

50000

40000

30000

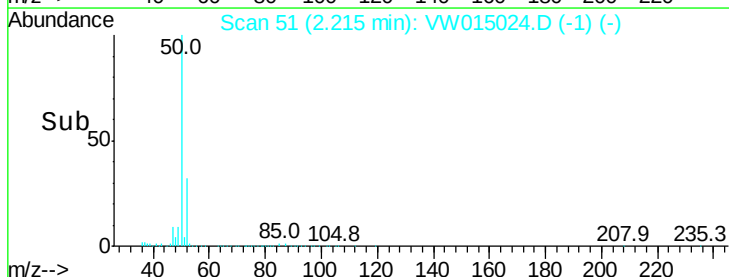
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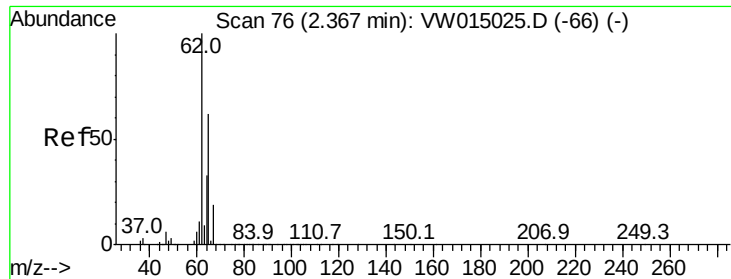
10000

0

Time-->

2.15 2.20 2.25





#5

Vinyl chloride

Concen: 6.601 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

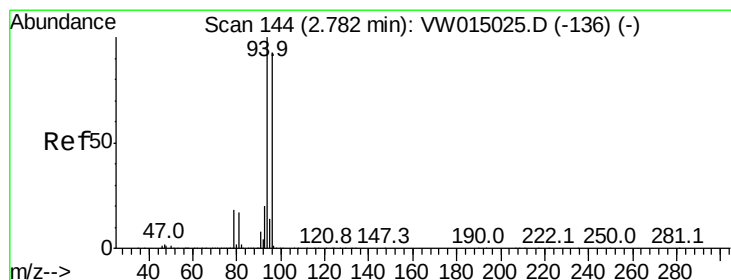
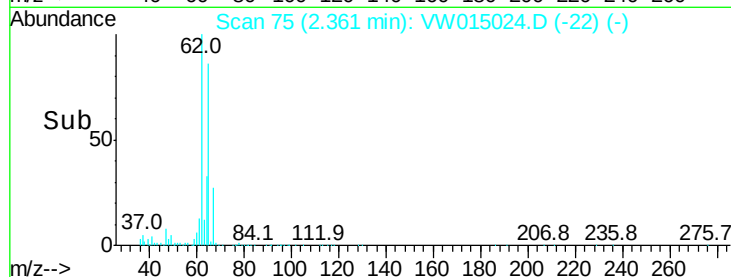
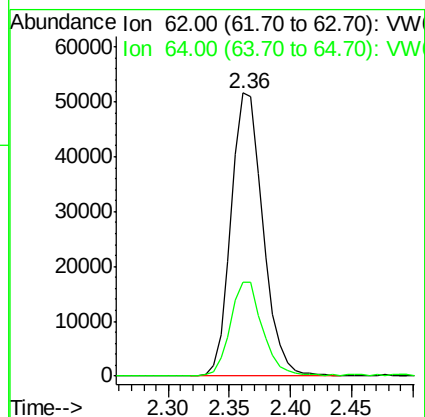
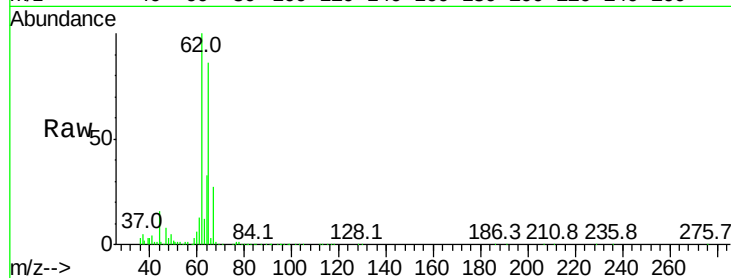
VSTD00502

Tgt Ion: 62 Resp: 93147

Ion Ratio Lower Upper

62 100

64 33.4 23.0 42.8



#6

Bromomethane

Concen: 5.975 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW015024.D

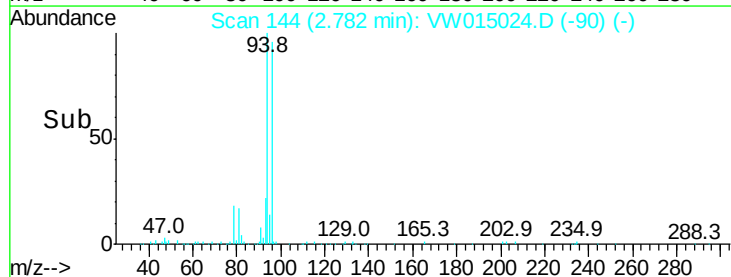
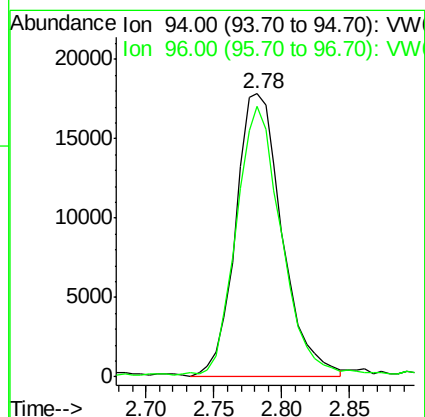
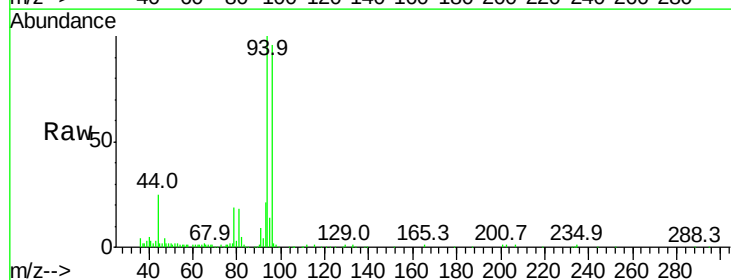
Acq: 24 Feb 2020 10:35

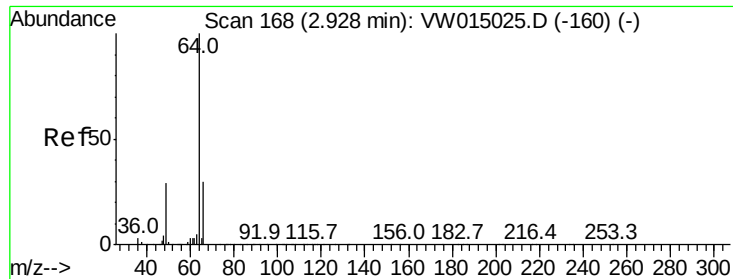
Tgt Ion: 94 Resp: 42161

Ion Ratio Lower Upper

94 100

96 93.8 9.5 179.7

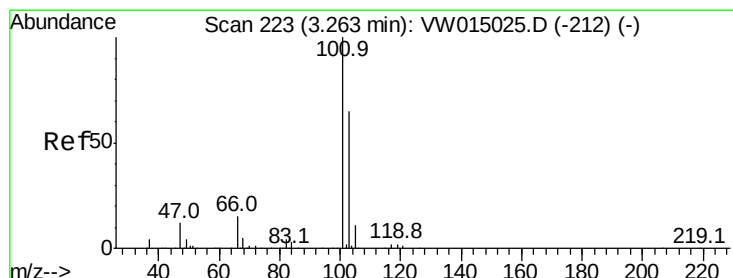
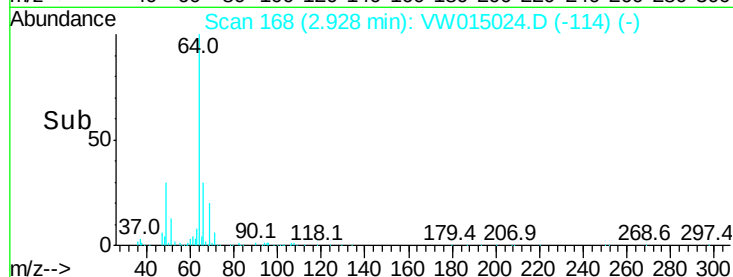
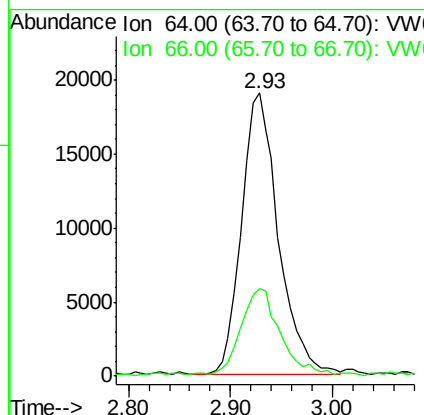
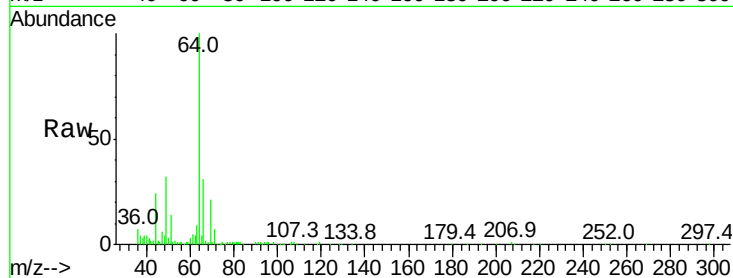




#8
Chloroethane
Concen: 6.165 ug/L
RT: 2.93 min Scan# 168
Delta R.T. 0.00 min
Lab File: VW015024.D
Acq: 24 Feb 2020 10:35

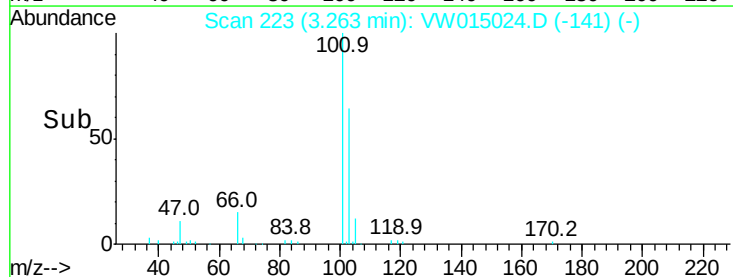
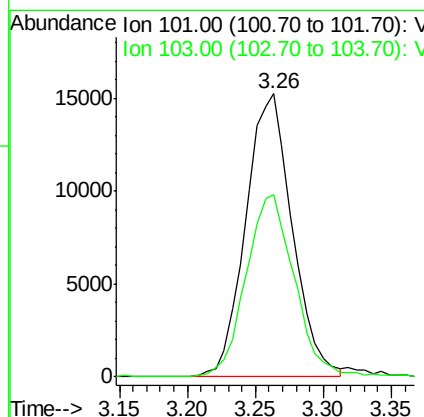
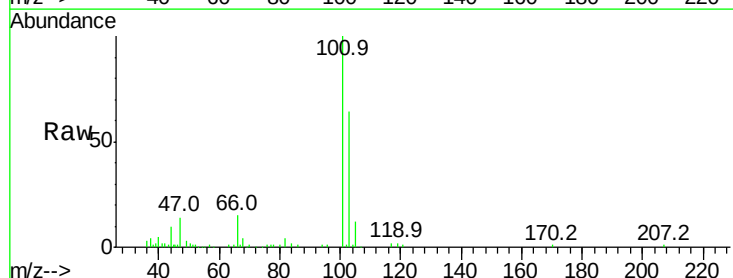
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

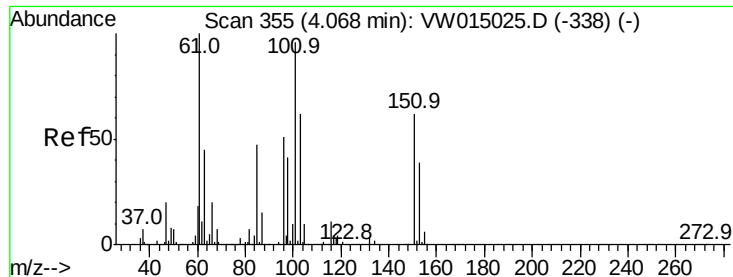
Tgt Ion: 64 Resp: 47603
Ion Ratio Lower Upper
64 100
66 31.1 21.2 39.4



#9
Trichlorofluoromethane
Concen: 6.402 ug/L
RT: 3.26 min Scan# 223
Delta R.T. 0.00 min
Lab File: VW015024.D
Acq: 24 Feb 2020 10:35

Tgt Ion: 101 Resp: 36518
Ion Ratio Lower Upper
101 100
103 66.1 44.9 83.5





#11

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

Concen: 5.475 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

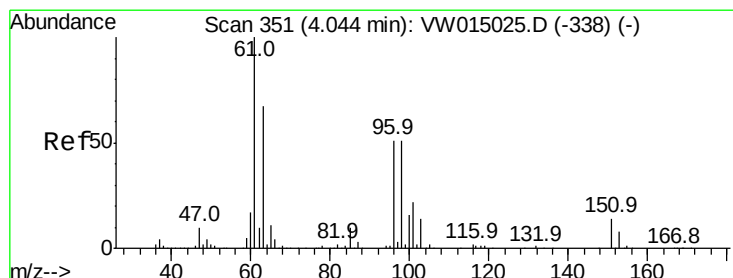
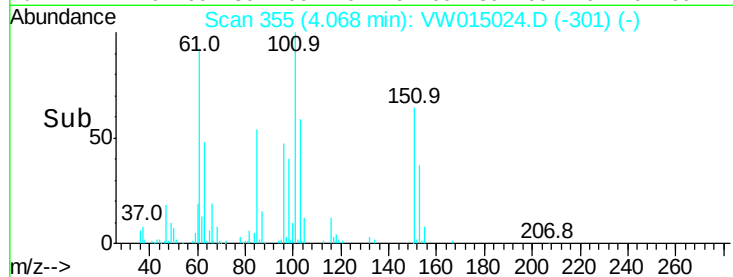
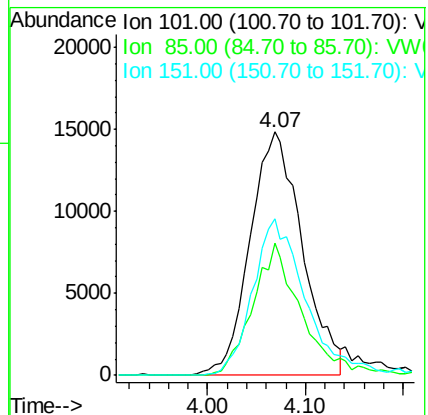
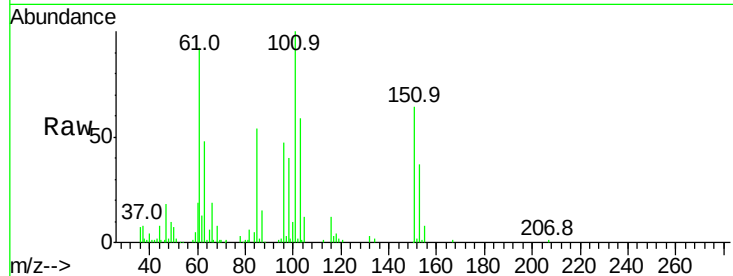
Tgt Ion:101 Resp: 55132

Ion Ratio Lower Upper

101 100

85 47.6 37.8 56.8

151 63.4 50.3 75.5



#12

1,1-Dichloroethene

Concen: 5.120 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

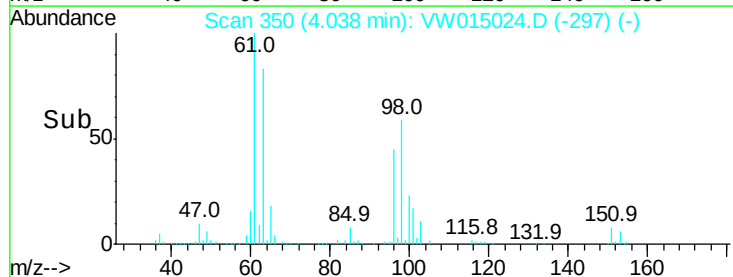
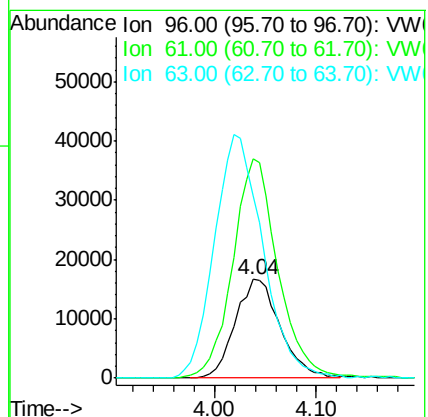
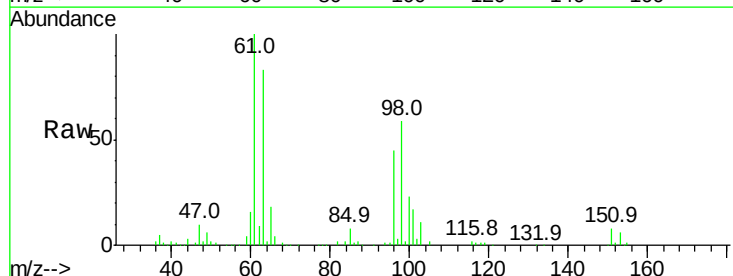
Tgt Ion: 96 Resp: 50387

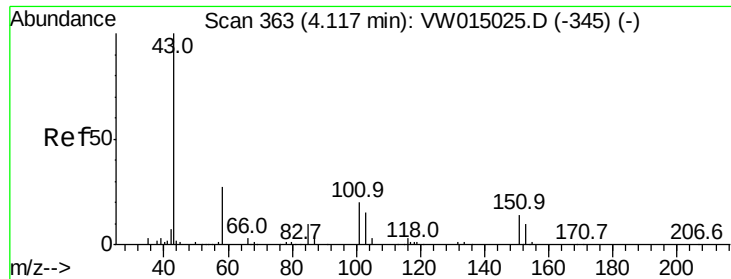
Ion Ratio Lower Upper

96 100

61 221.9 138.5 257.1

63 185.1 93.4 173.6#





#13

Acetone

Concen: 10.079 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampled :

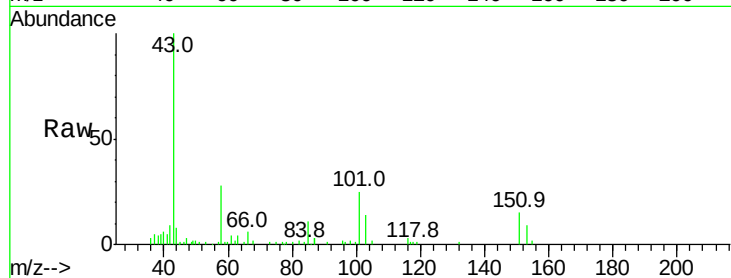
VSTD00502

Tgt Ion: 43 Resp: 33533

Ion Ratio Lower Upper

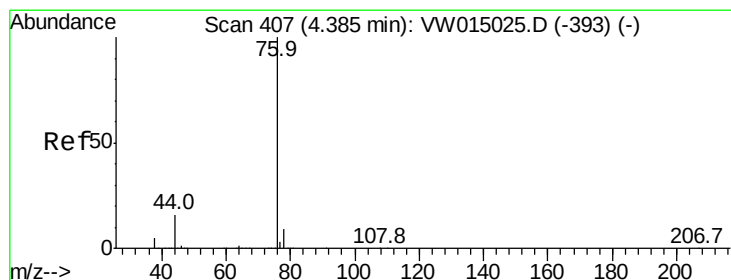
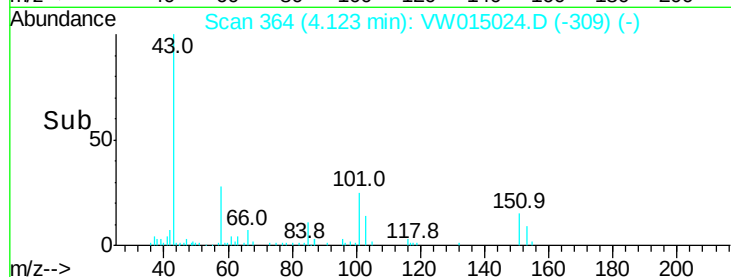
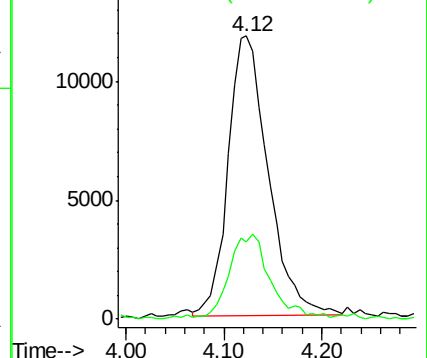
43 100

58 29.1 0.0 54.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 6.823 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW015024.D

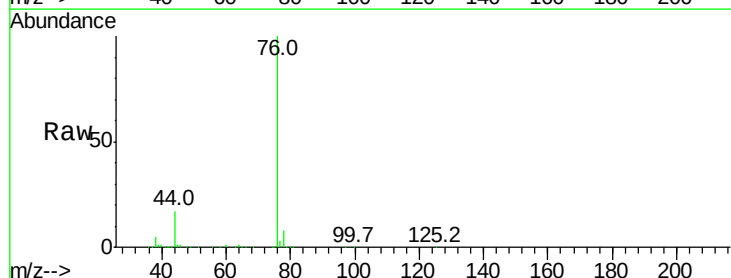
Acq: 24 Feb 2020 10:35

Tgt Ion: 76 Resp: 201616

Ion Ratio Lower Upper

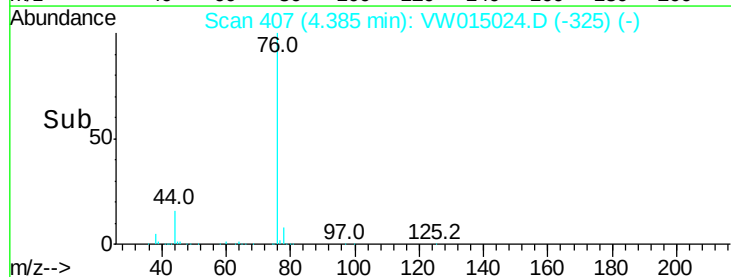
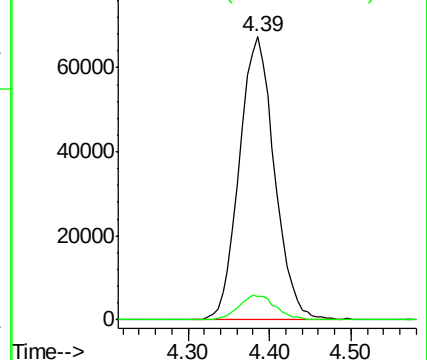
76 100

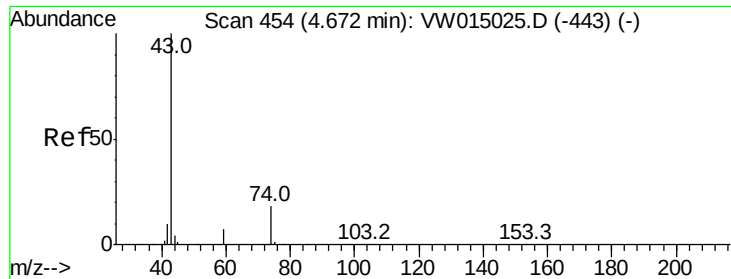
78 8.4 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

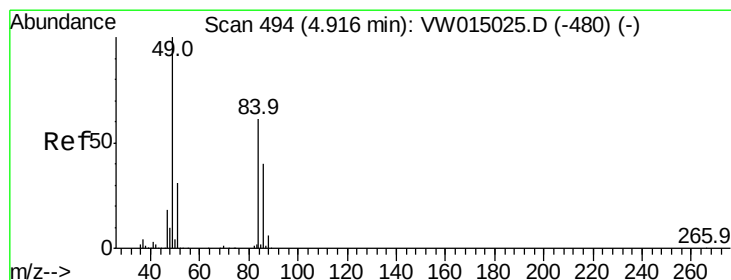
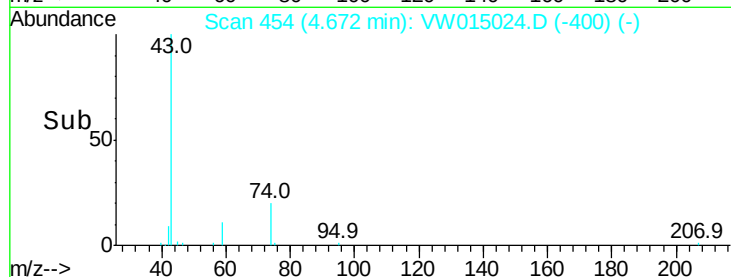
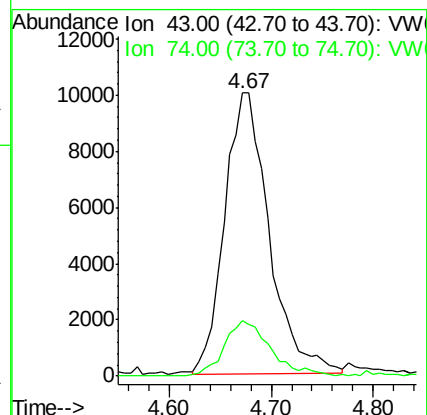
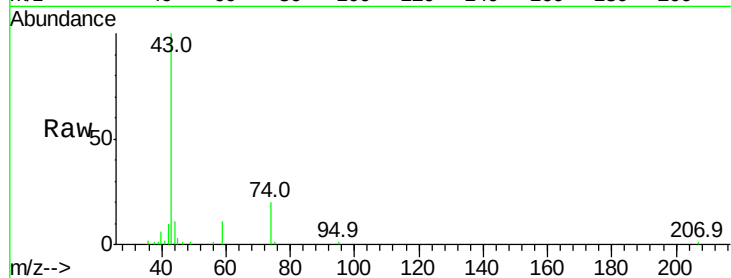




#15
Methyl Acetate
Concen: 5.563 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.00 min
Lab File: VW015024.D
Acq: 24 Feb 2020 10:35

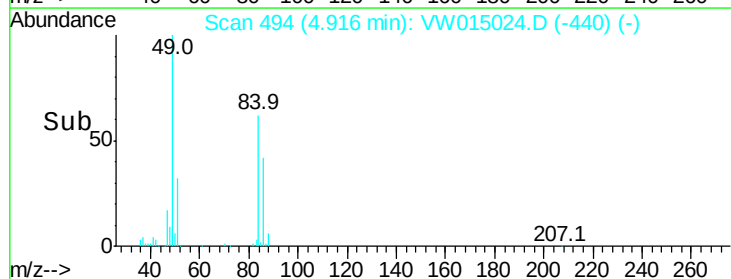
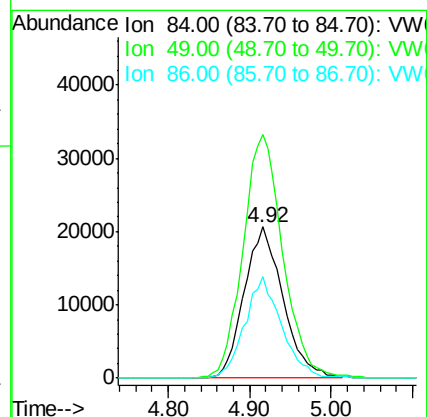
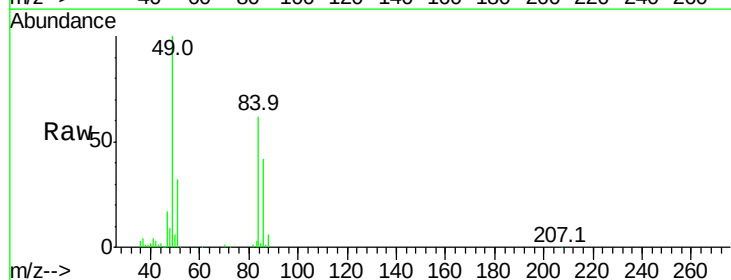
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

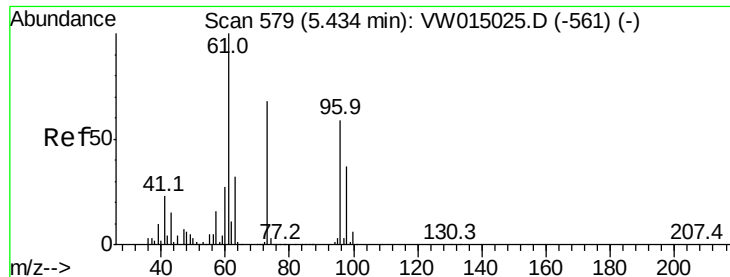
Tgt Ion: 43 Resp: 30457
Ion Ratio Lower Upper
43 100
74 19.4 14.5 21.7



#16
Methylene chloride
Concen: 5.420 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW015024.D
Acq: 24 Feb 2020 10:35

Tgt Ion: 84 Resp: 68499
Ion Ratio Lower Upper
84 100
49 160.8 115.6 214.8
86 67.1 45.9 85.3

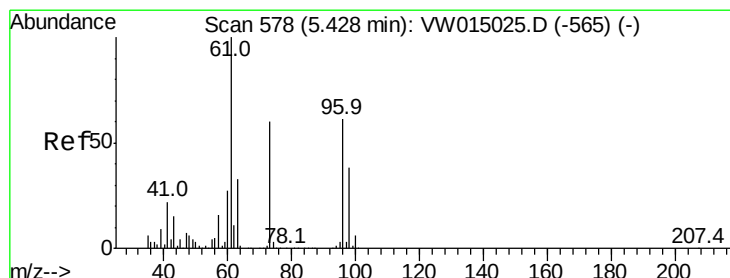
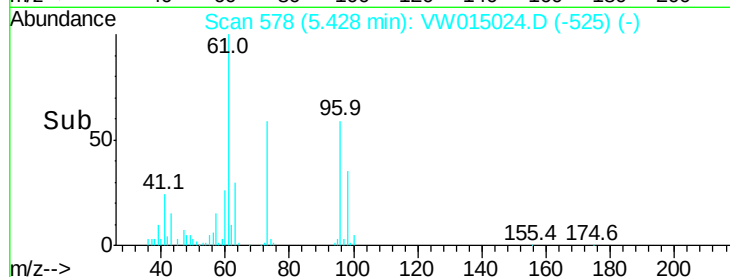
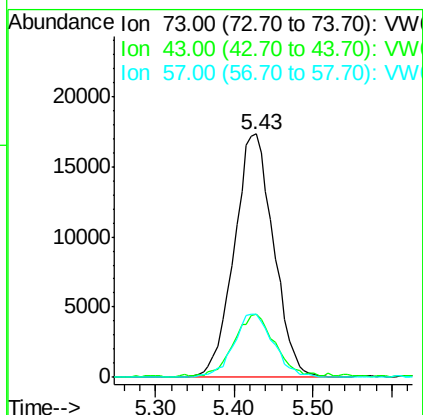
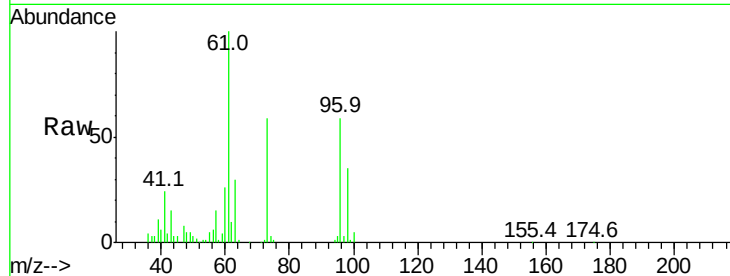




#17
Methyl tert-butyl Ether
Concen: 4.672 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.01 min
Lab File: VW015024.D
Acq: 24 Feb 2020 10:35

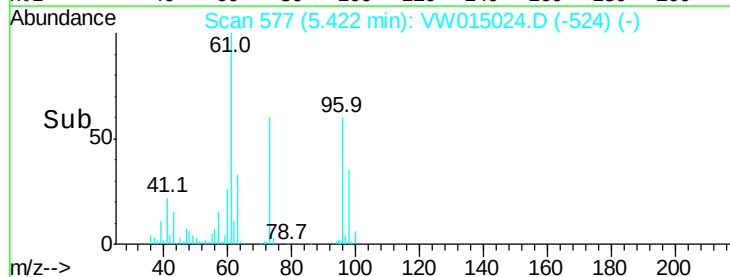
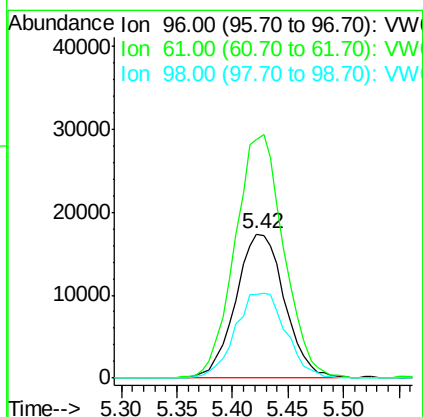
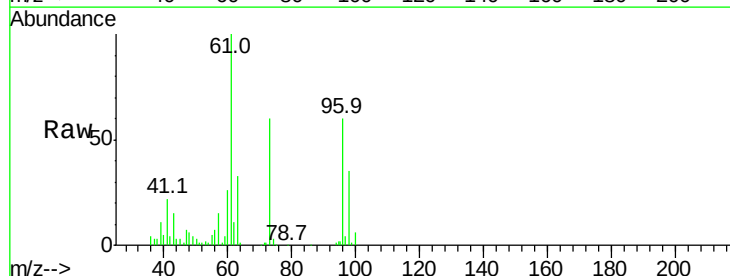
Instrument :
MSVOA_W
ClientSampled :
VSTD00502

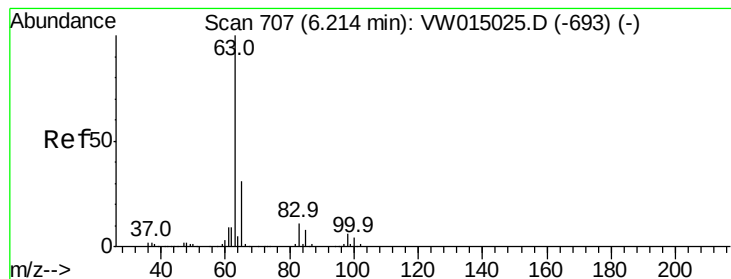
Tgt Ion: 73 Resp: 60063
Ion Ratio Lower Upper
73 100
43 26.2 19.7 29.5
57 26.3 20.4 30.6



#18
trans-1,2-Dichloroethene
Concen: 5.324 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW015024.D
Acq: 24 Feb 2020 10:35

Tgt Ion: 96 Resp: 53086
Ion Ratio Lower Upper
96 100
61 165.9 115.1 213.8
98 58.5 44.0 81.6





#19

1,1-Dichloroethane

Concen: 6.019 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampled :

VSTD00502

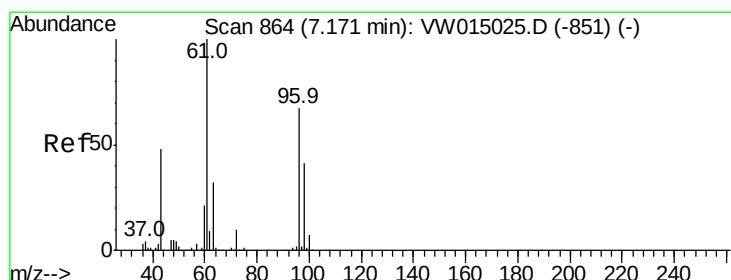
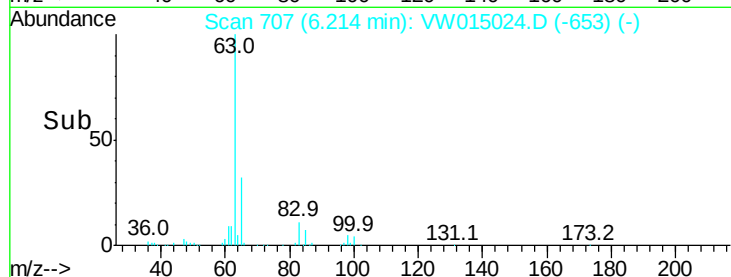
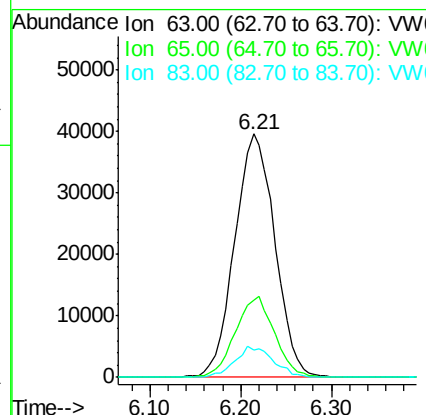
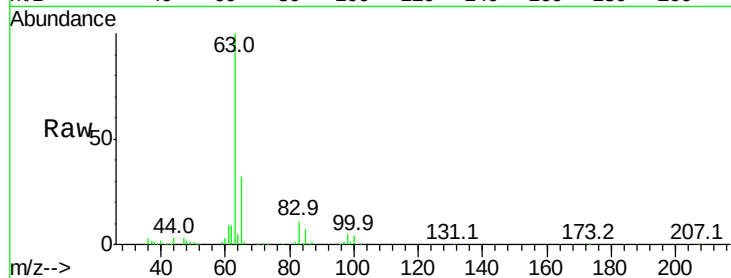
Tgt Ion: 63 Resp: 121599

Ion Ratio Lower Upper

63 100

65 31.7 21.9 40.7

83 11.4 7.8 14.6



#21

2-Butanone

Concen: 9.057 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW015024.D

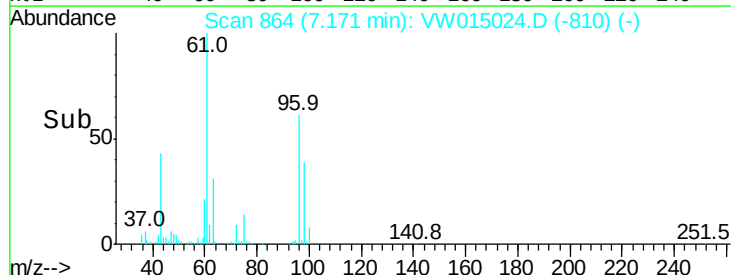
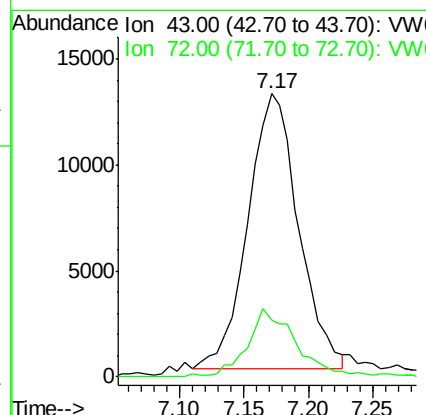
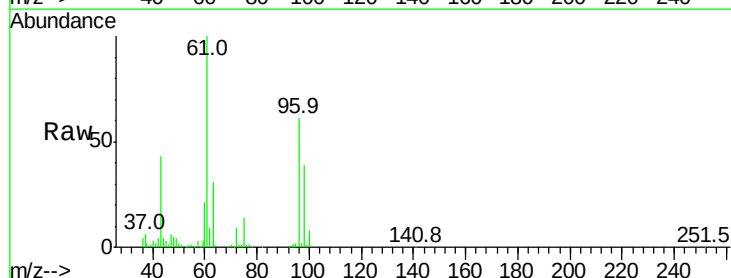
Acq: 24 Feb 2020 10:35

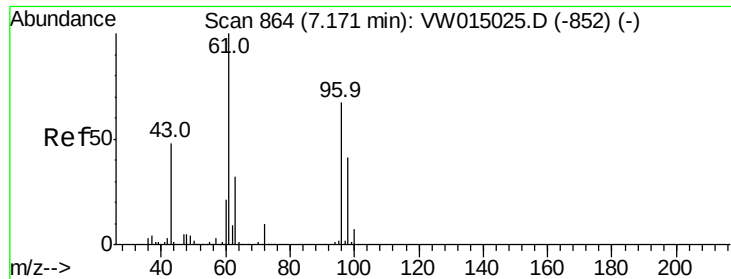
Tgt Ion: 43 Resp: 35280

Ion Ratio Lower Upper

43 100

72 13.9 10.4 31.4





#22

cis-1,2-Dichloroethene

Concen: 4.842 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampled :

VSTD00502

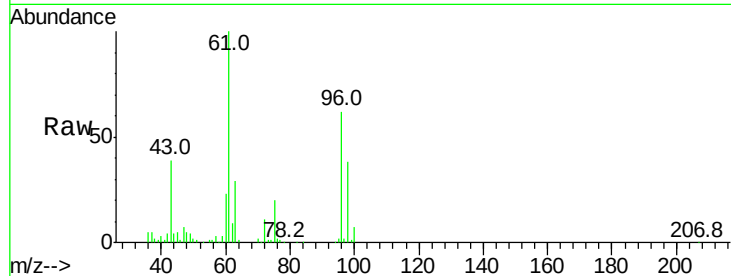
Tgt Ion: 96 Resp: 52227

Ion Ratio Lower Upper

96 100

61 160.2 105.2 195.4

98 60.4 42.6 79.2

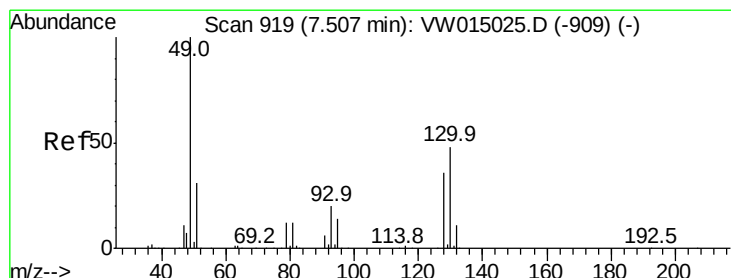
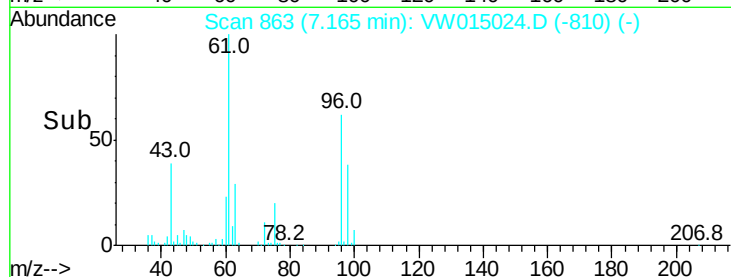
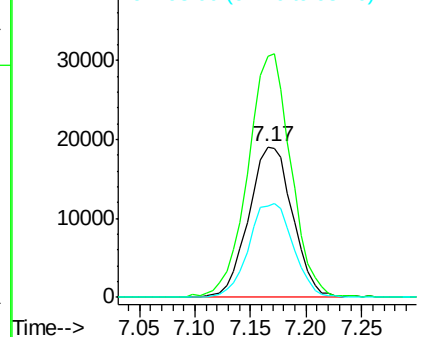


Abundance

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: 4.948 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Tgt Ion: 128 Resp: 21897

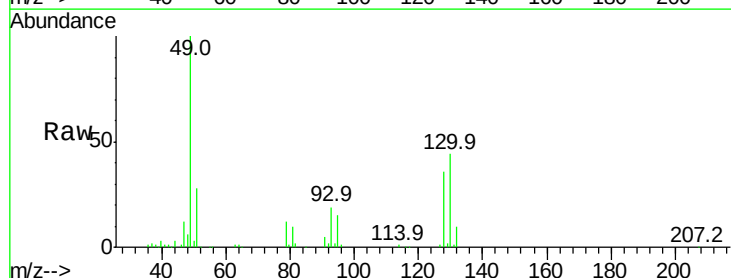
Ion Ratio Lower Upper

128 100

49 279.1 192.7 357.9

130 122.8 92.7 172.1

51 79.4 69.3 103.9



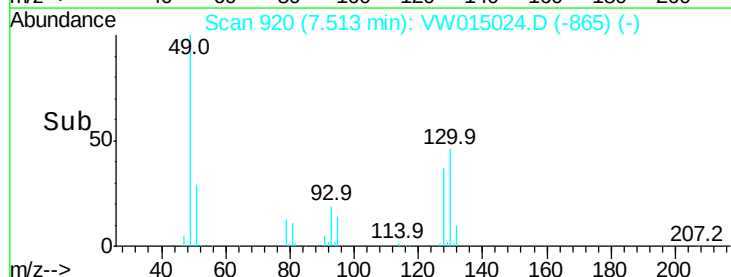
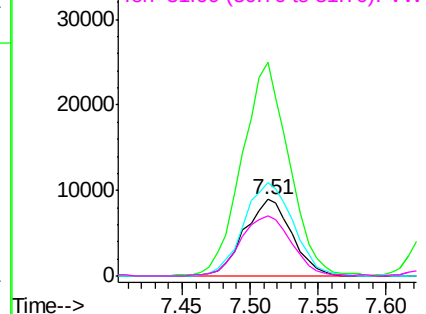
Abundance

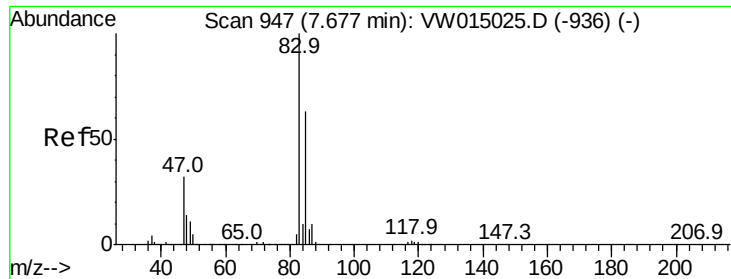
Ion 128.00 (127.70 to 128.70): V

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: 6.136 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampled :

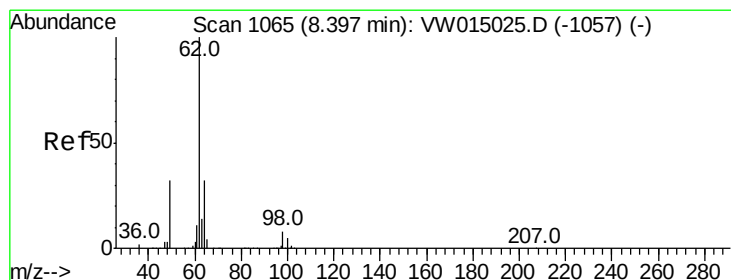
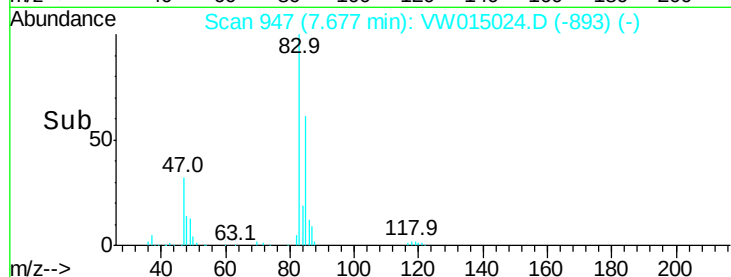
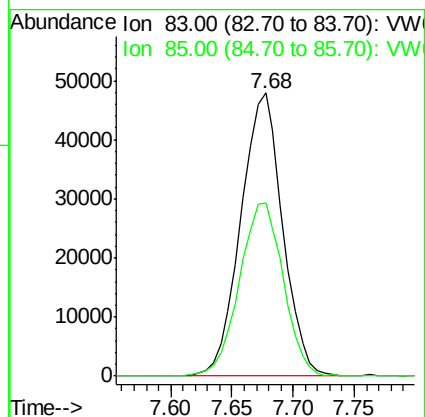
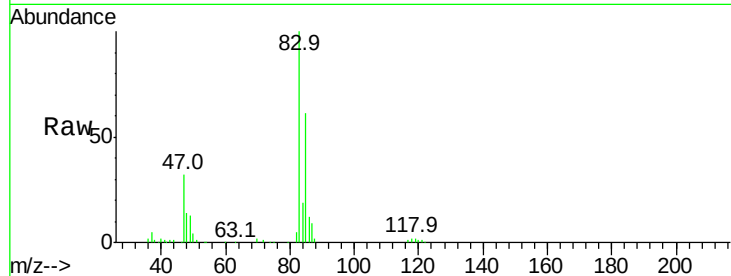
VSTD00502

Tgt Ion: 83 Resp: 113868

Ion Ratio Lower Upper

83 100

85 64.2 44.9 83.5



#27

1,2-Dichloroethane

Concen: 6.143 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW015024.D

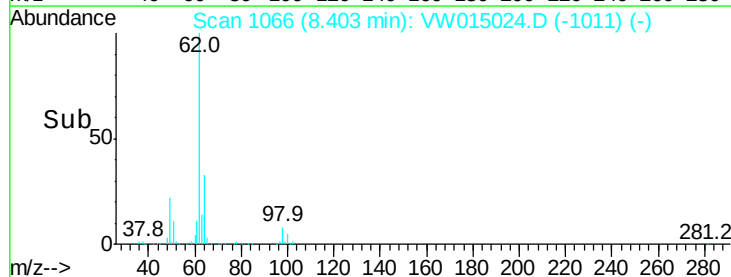
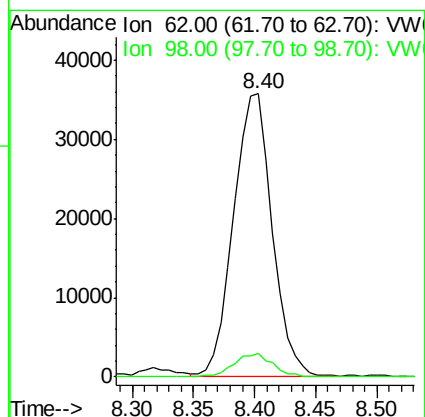
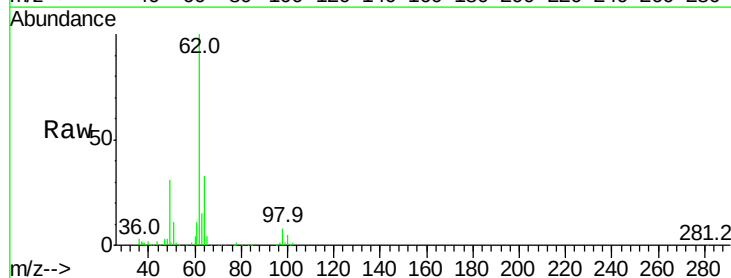
Acq: 24 Feb 2020 10:35

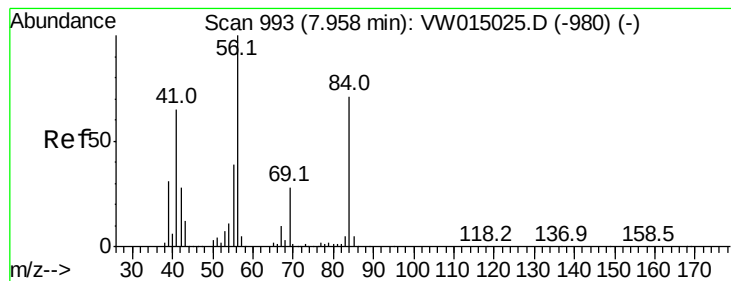
Tgt Ion: 62 Resp: 78586

Ion Ratio Lower Upper

62 100

98 8.5 6.5 9.7





#30

Cyclohexane

Concen: 4.526 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

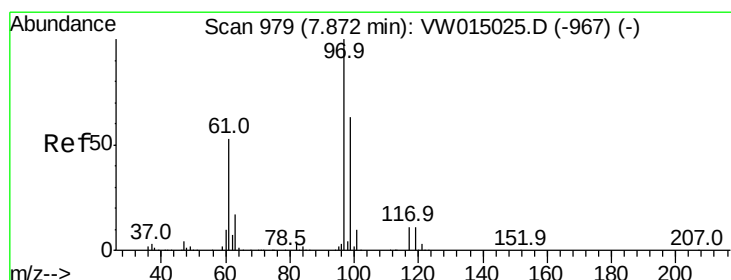
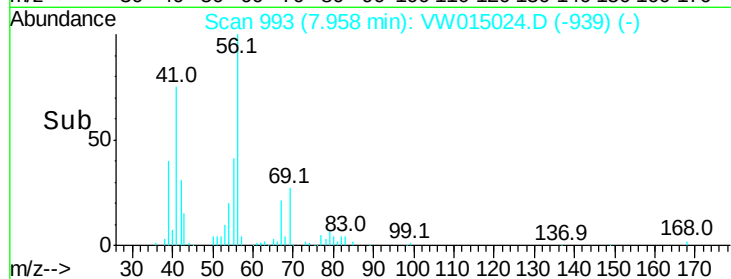
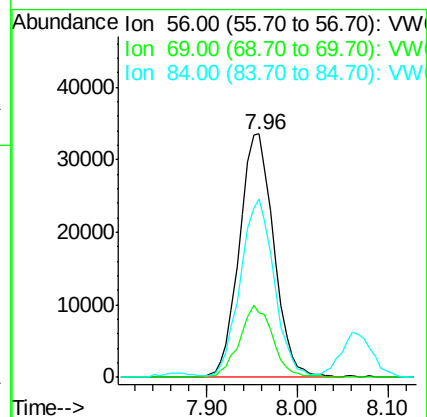
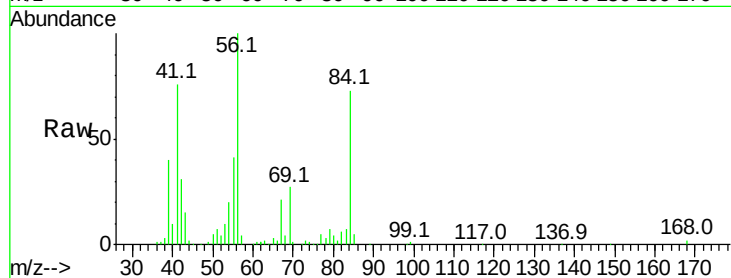
Tgt Ion: 56 Resp: 88764

Ion Ratio Lower Upper

56 100

69 28.3 21.8 32.6

84 71.6 57.3 85.9



#31

1,1,1-Trichloroethane

Concen: 5.654 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

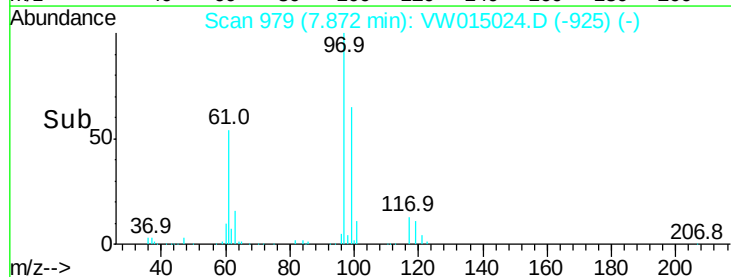
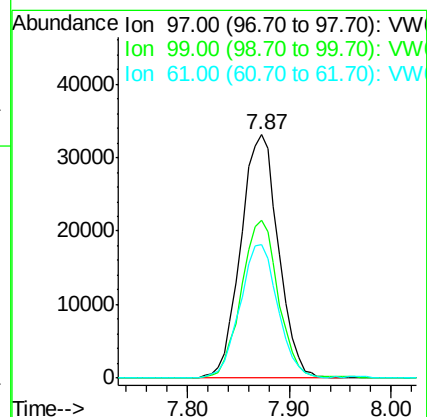
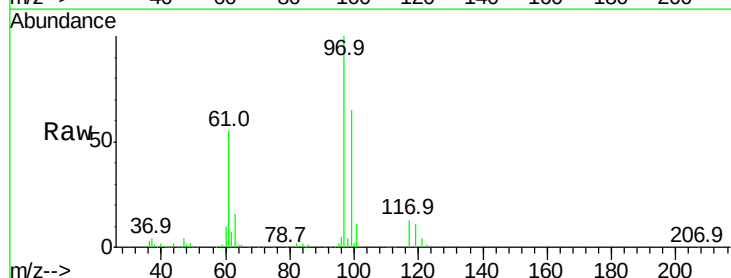
Tgt Ion: 97 Resp: 84855

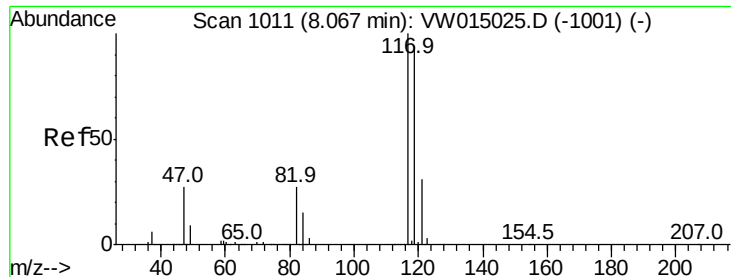
Ion Ratio Lower Upper

97 100

99 63.6 50.6 76.0

61 55.1 43.1 64.7





#32

Carbon tetrachloride

Concen: 5.739 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

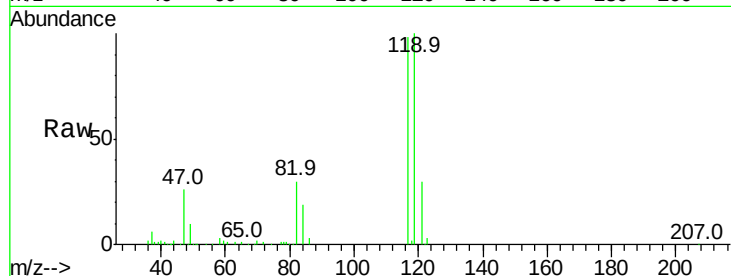
VSTD00502

Tgt Ion:117 Resp: 77427

Ion Ratio Lower Upper

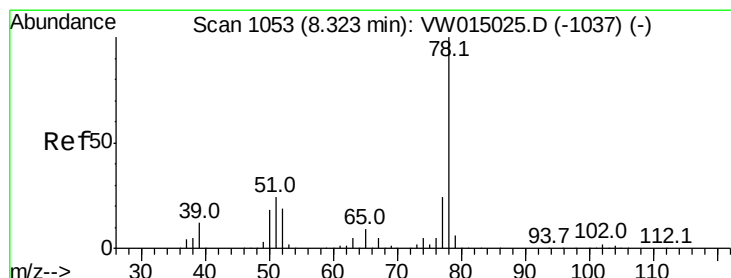
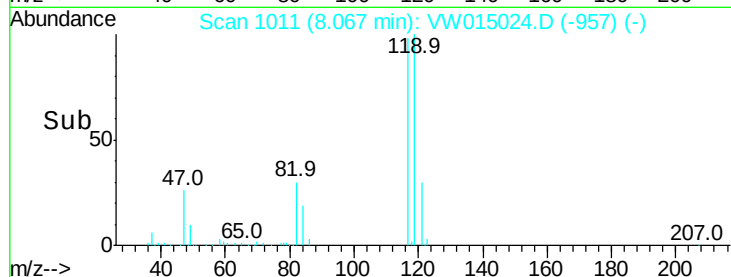
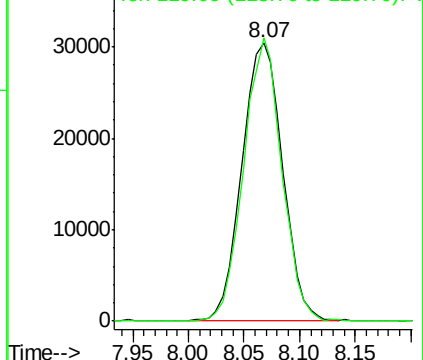
117 100

119 95.3 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 5.353 ug/L

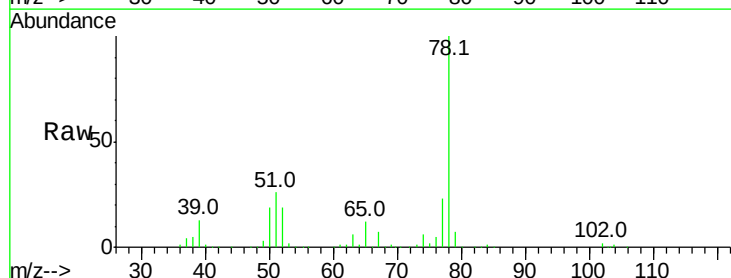
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

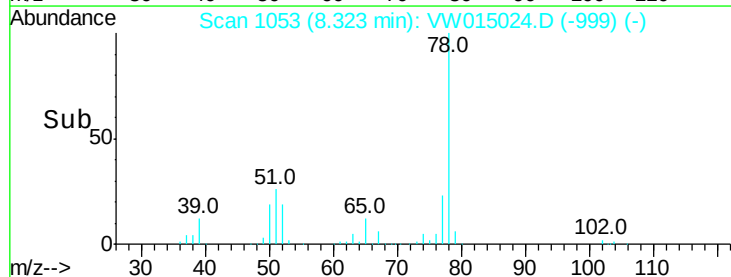
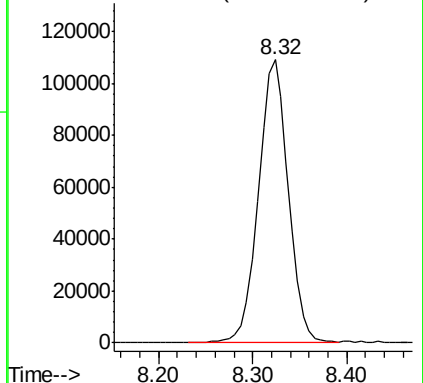
Lab File: VW015024.D

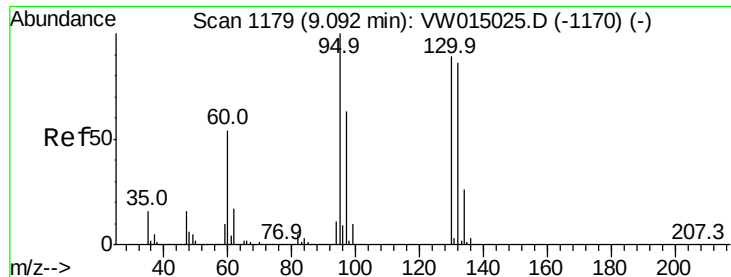
Acq: 24 Feb 2020 10:35

Tgt Ion: 78 Resp: 242299



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 5.262 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

Tgt Ion: 95 Resp: 59038

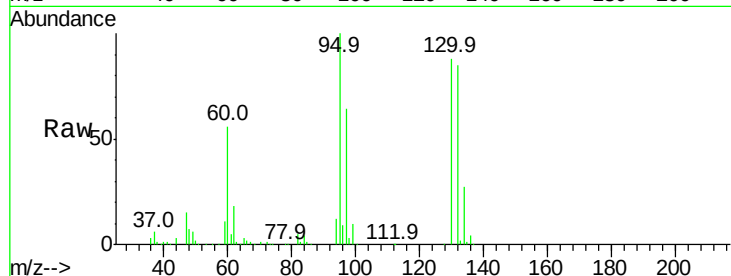
Ion Ratio Lower Upper

95 100

97 62.7 44.7 83.1

132 82.5 58.1 107.9

130 86.0 62.0 115.2

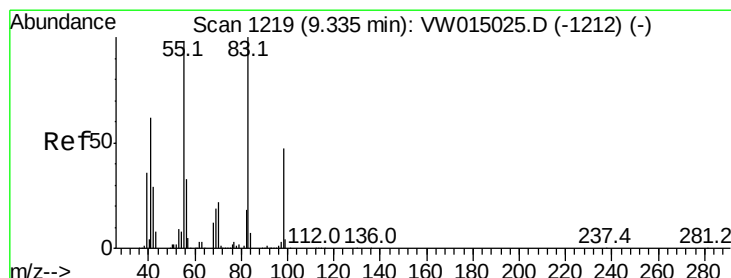
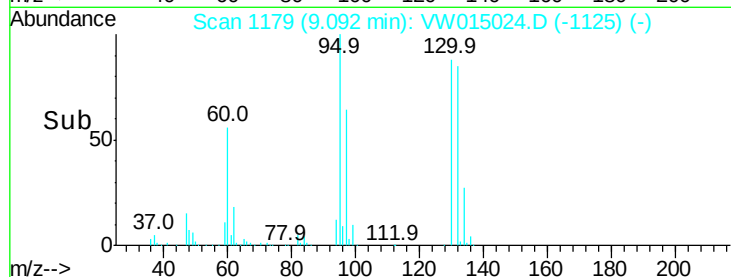
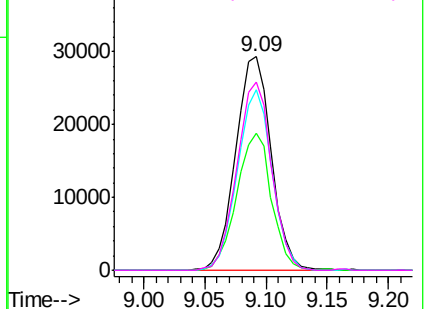


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 4.466 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

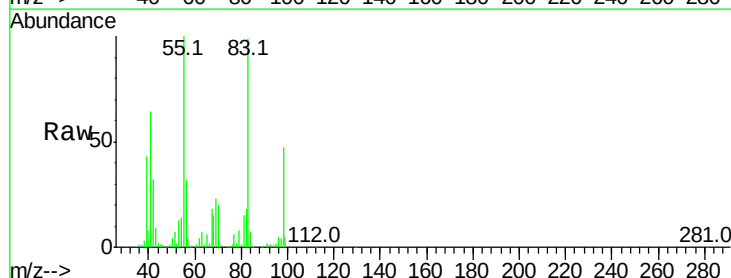
Tgt Ion: 83 Resp: 87288

Ion Ratio Lower Upper

83 100

55 100.9 76.6 115.0

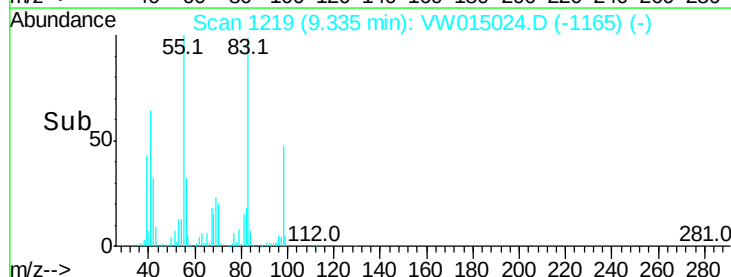
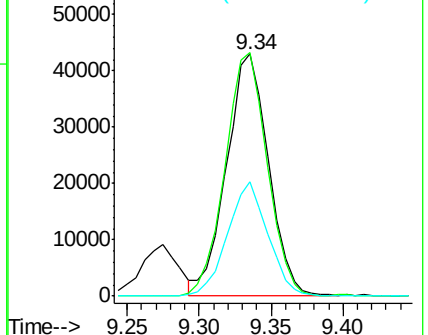
98 45.4 36.6 54.8

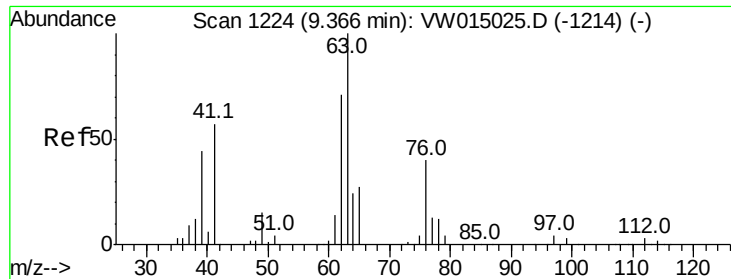


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

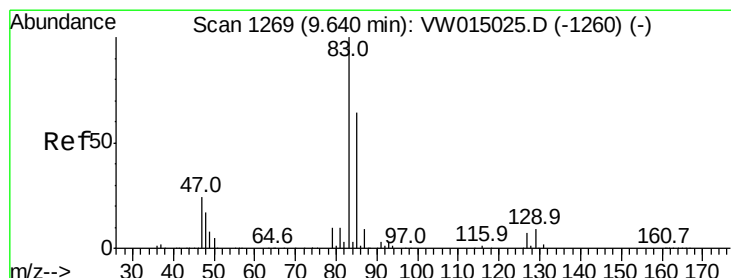
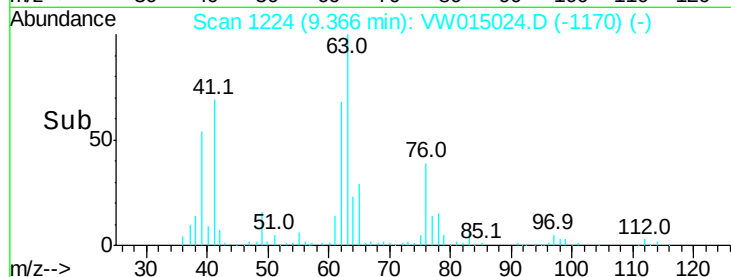
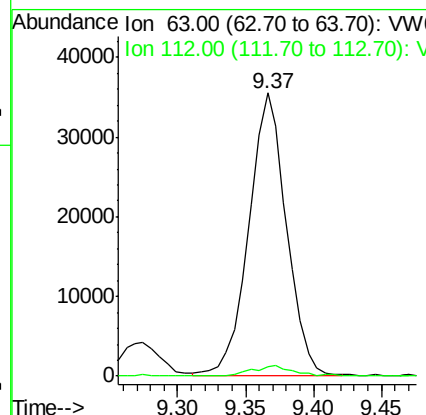
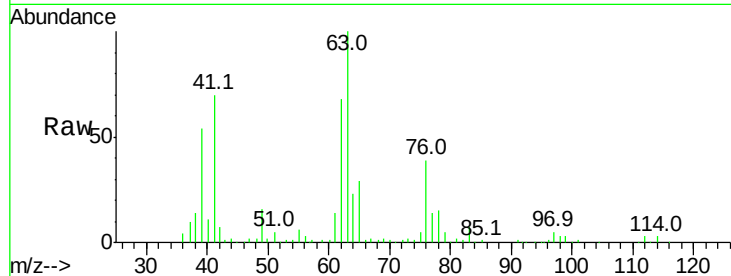




#40
 1,2-Dichloropropane
 Concen: 5.661 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

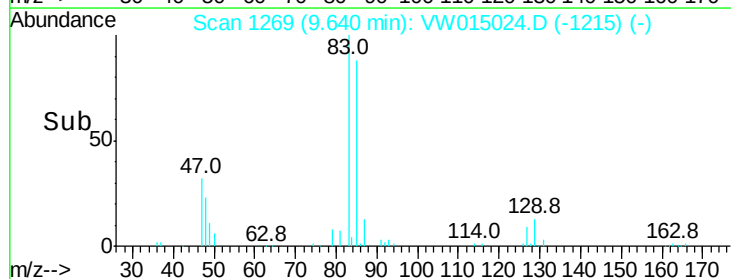
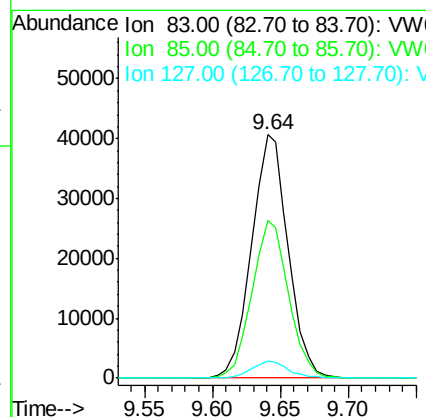
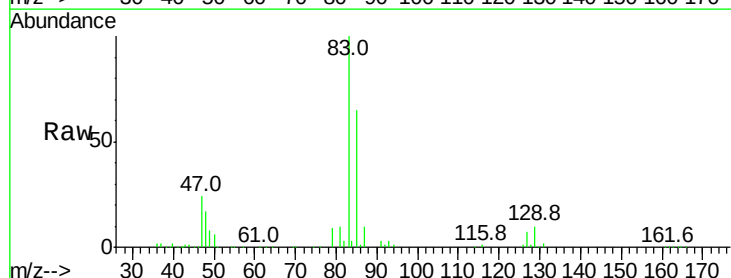
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

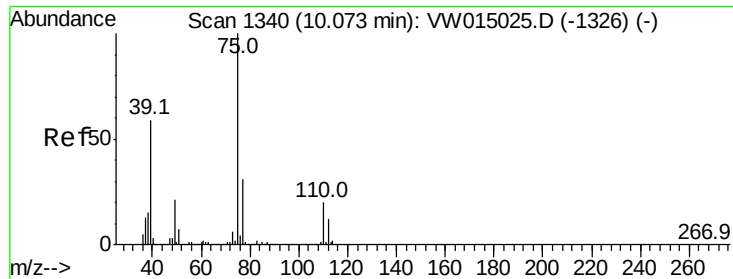
Tgt Ion: 63 Resp: 68568
 Ion Ratio Lower Upper
 63 100
 112 4.1 2.8 4.2



#41
 Bromodichloromethane
 Concen: 5.513 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

Tgt Ion: 83 Resp: 76532
 Ion Ratio Lower Upper
 83 100
 85 64.6 44.7 83.1
 127 6.9 5.4 8.0





#42

cis-1,3-Dichloropropene

Concen: 4.549 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

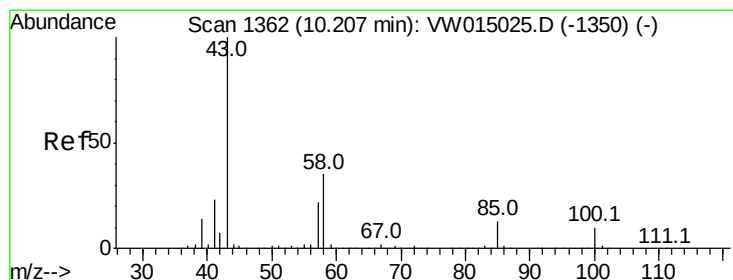
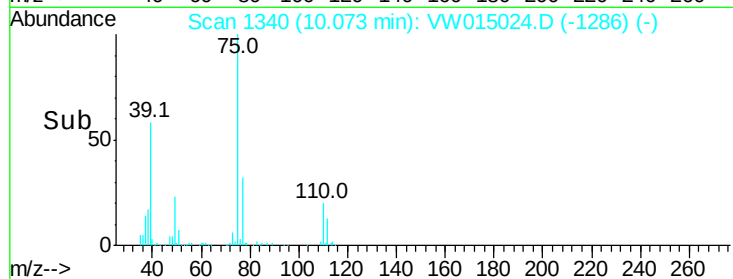
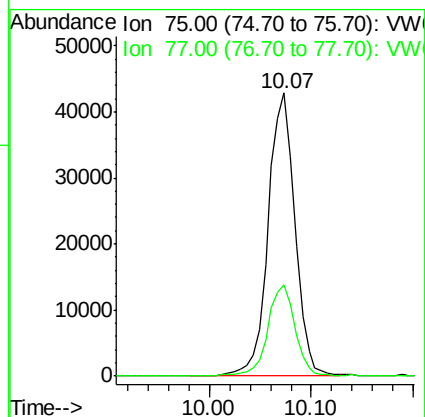
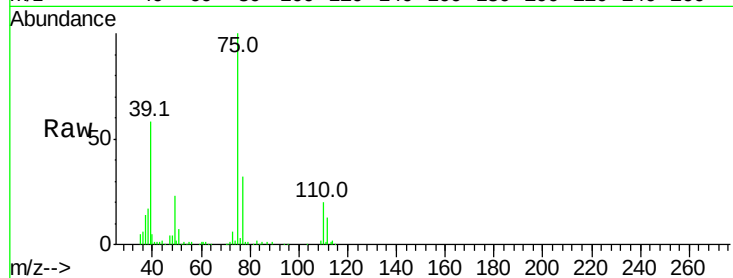
VSTD00502

Tgt Ion: 75 Resp: 78248

Ion Ratio Lower Upper

75 100

77 32.3 21.9 40.7



#43

4-Methyl-2-pentanone

Concen: 8.849 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

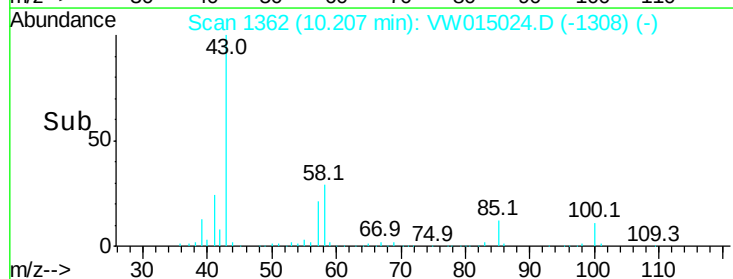
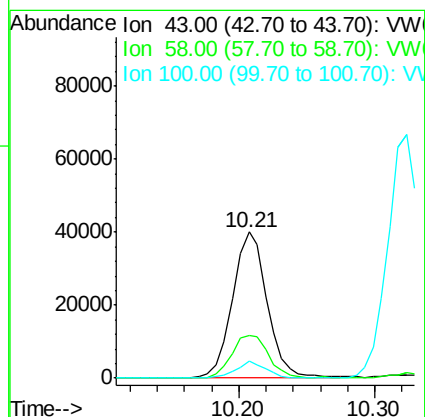
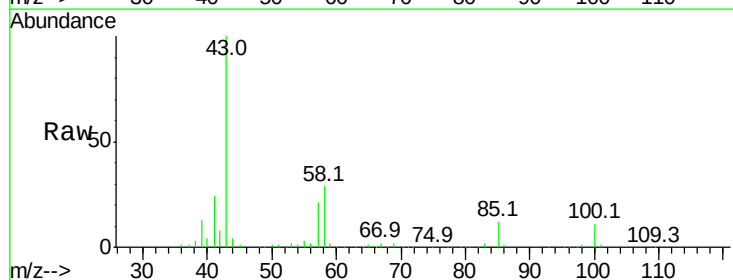
Tgt Ion: 43 Resp: 70287

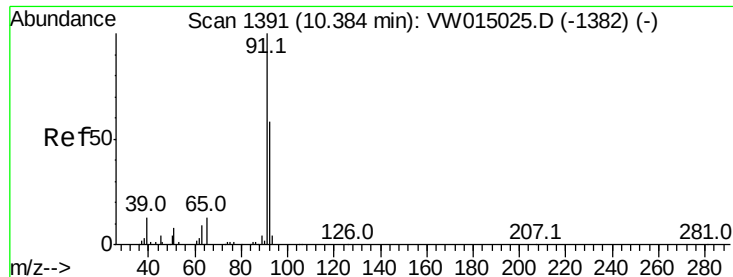
Ion Ratio Lower Upper

43 100

58 31.6 27.6 41.4

100 10.0 8.6 13.0





#44

Toluene

Concen: 4.865 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

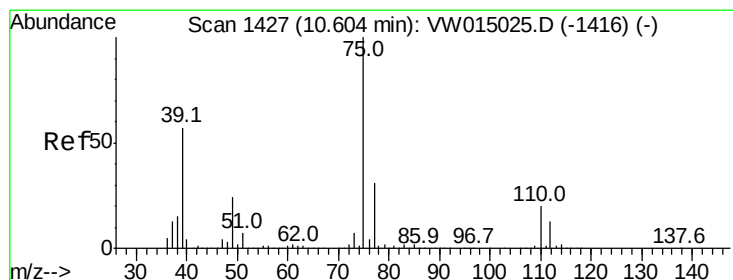
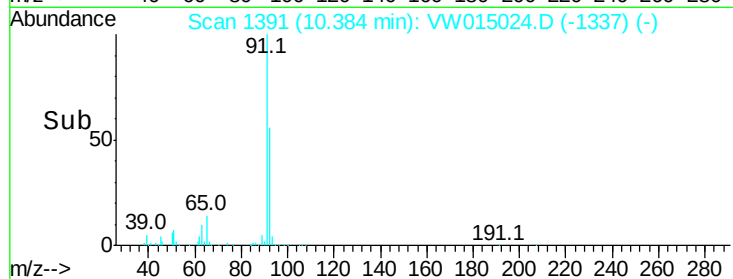
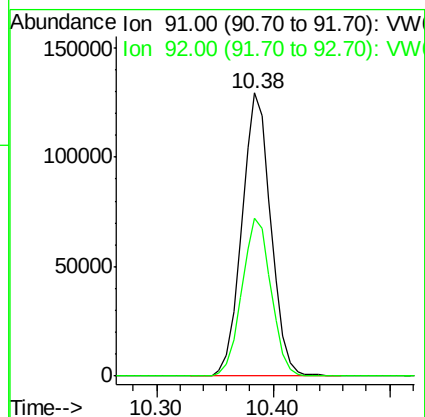
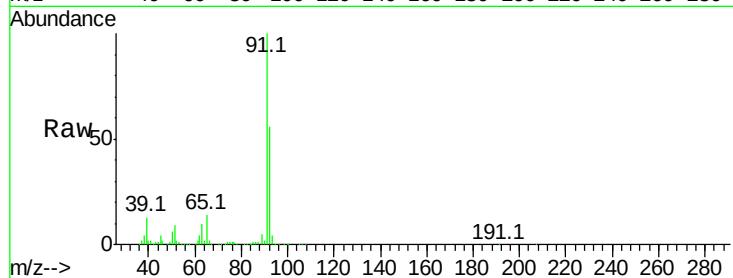
VSTD00502

Tgt Ion: 91 Resp: 223568

Ion Ratio Lower Upper

91 100

92 55.9 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 4.806 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW015024.D

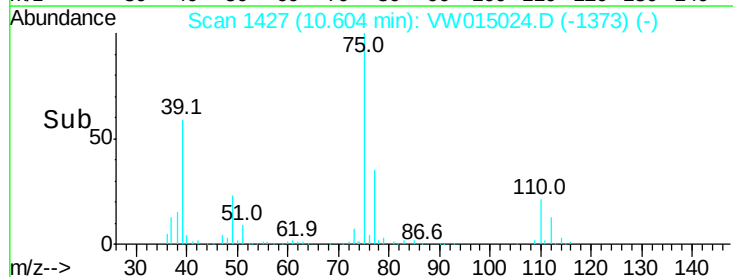
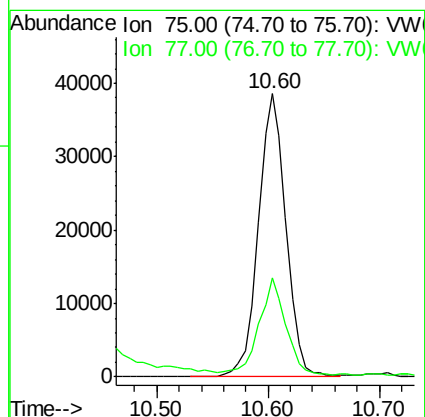
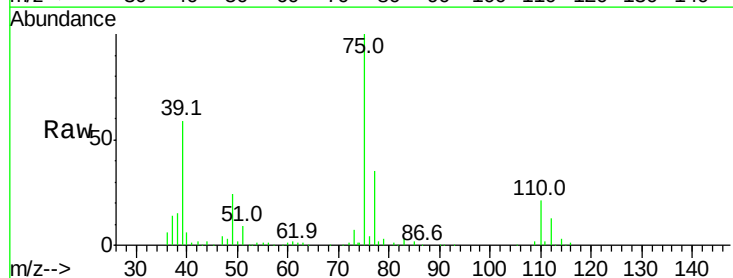
Acq: 24 Feb 2020 10:35

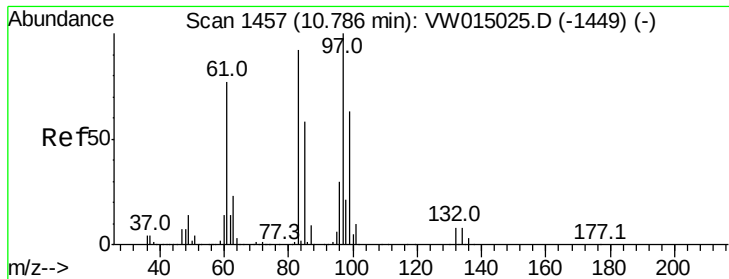
Tgt Ion: 75 Resp: 66573

Ion Ratio Lower Upper

75 100

77 34.8 21.6 40.2





#46

1,1,2-Trichloroethane

Concen: 4.928 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

Tgt Ion: 97 Resp: 39294

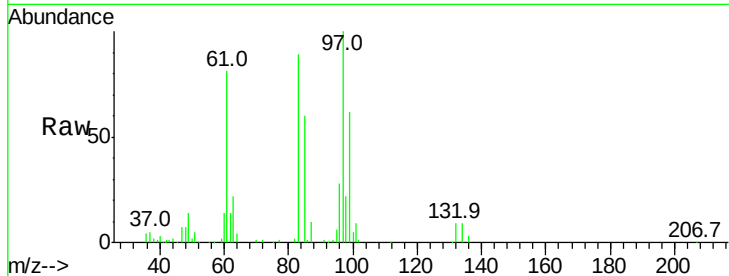
Ion Ratio Lower Upper

97 100

83 89.2 64.4 119.6

85 60.1 40.9 75.9

99 62.3 44.1 81.9

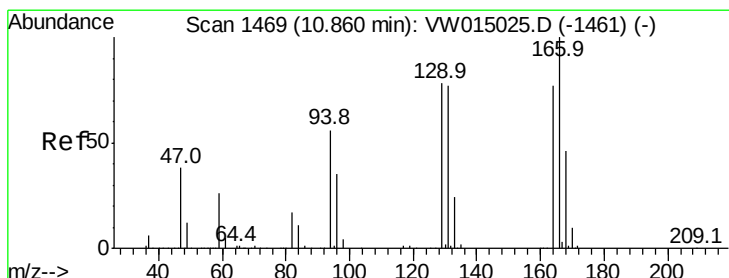
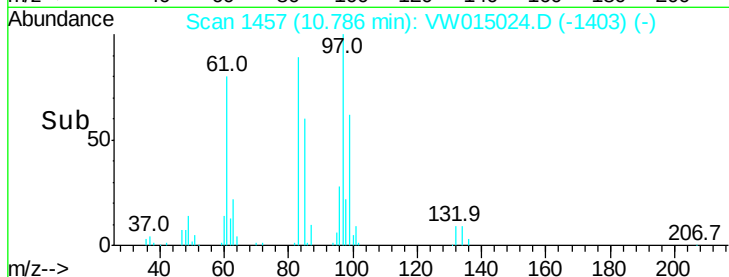
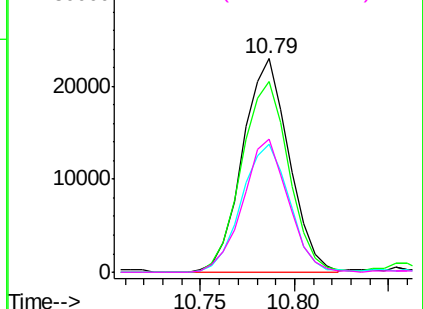


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 4.526 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Tgt Ion: 164 Resp: 37313

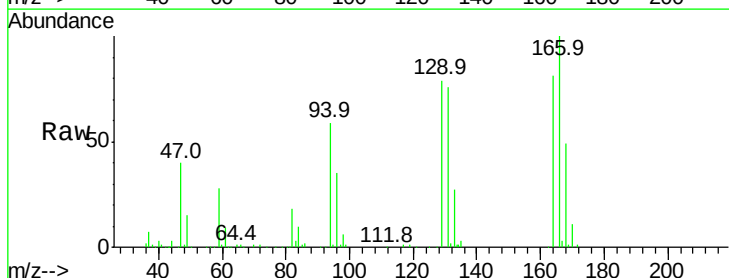
Ion Ratio Lower Upper

164 100

129 97.6 71.7 133.1

131 94.6 70.1 130.3

166 124.0 91.3 169.6

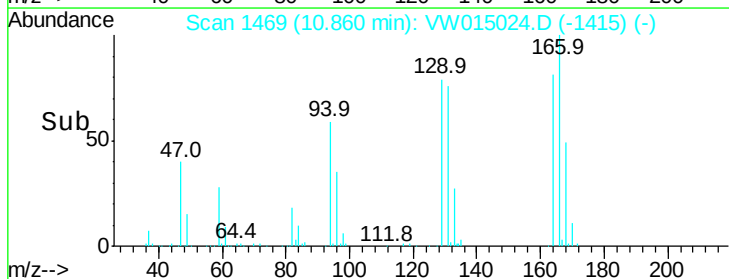
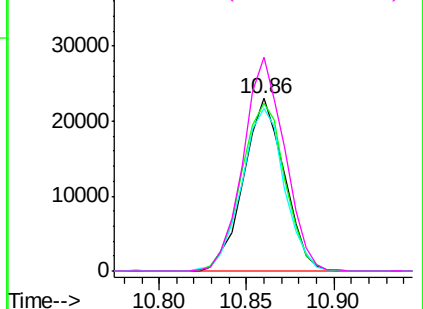


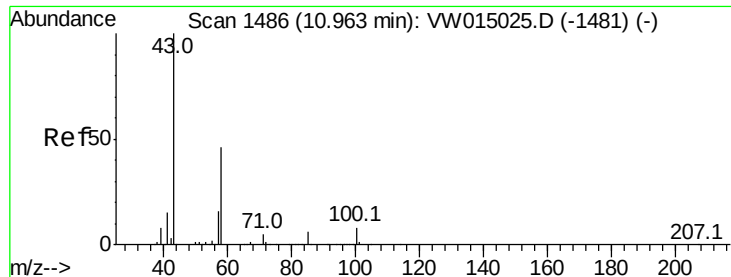
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

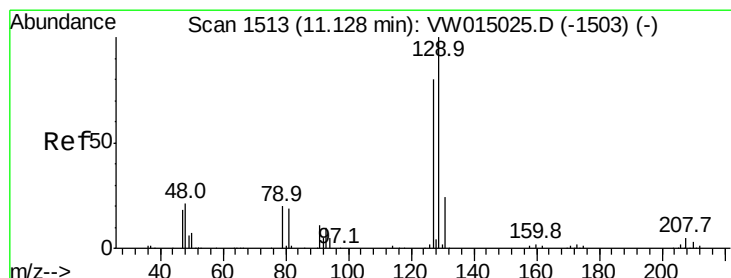
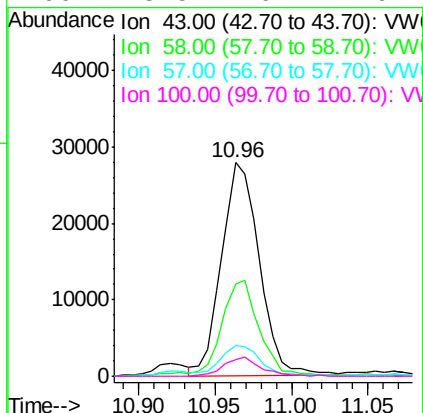
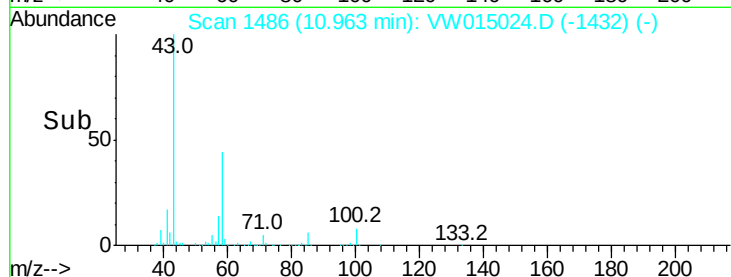
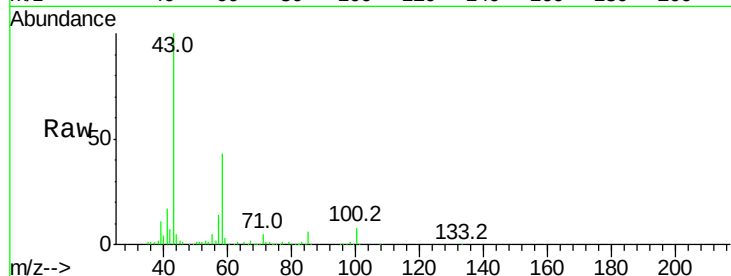




#49
2-Hexanone
Concen: 8.603 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW015024.D
Acq: 24 Feb 2020 10:35

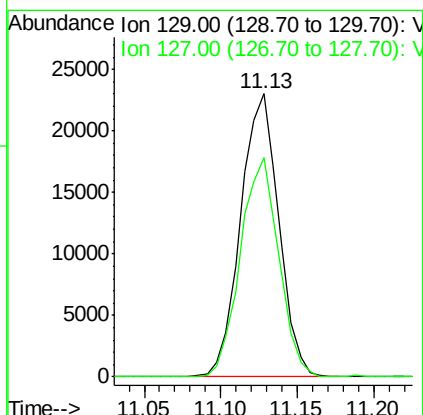
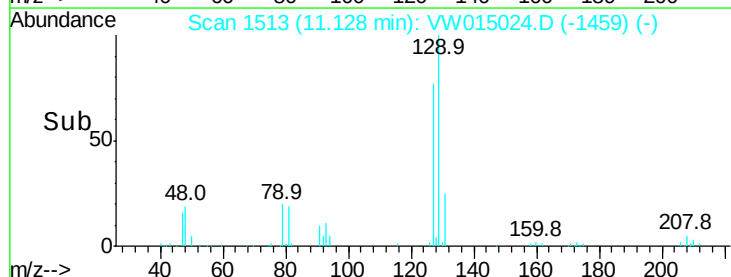
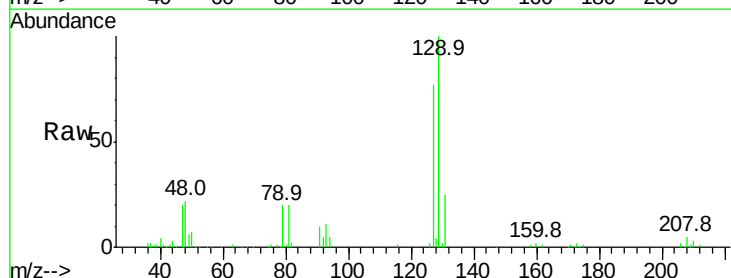
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

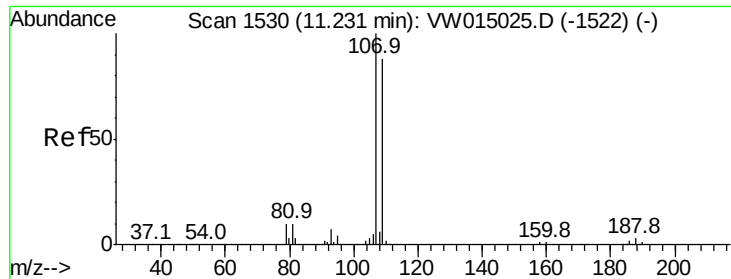
Tgt Ion: 43 Resp: 47996
Ion Ratio Lower Upper
43 100
58 43.9 38.9 58.3
57 14.2 13.4 20.2
100 8.5 6.7 10.1



#50
Dibromochloromethane
Concen: 4.650 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW015024.D
Acq: 24 Feb 2020 10:35

Tgt Ion: 129 Resp: 39850
Ion Ratio Lower Upper
129 100
127 77.4 56.4 104.7

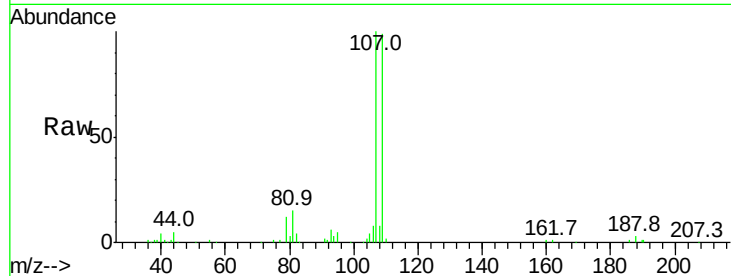




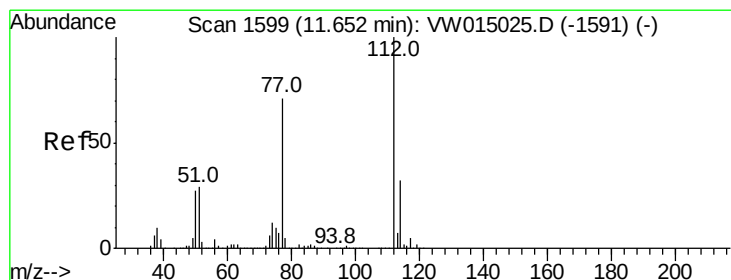
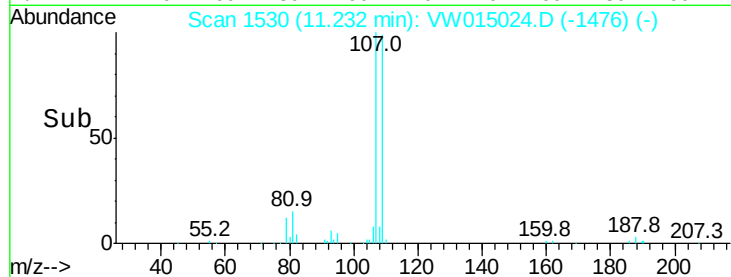
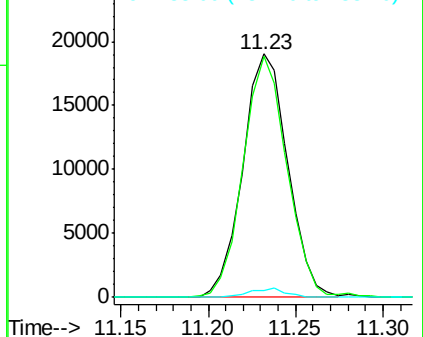
#51
 1,2-Dibromoethane
 Concen: 4.585 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

Tgt Ion:107 Resp: 34017
 Ion Ratio Lower Upper
 107 100
 109 98.8 61.9 114.9
 188 3.1 2.5 3.7

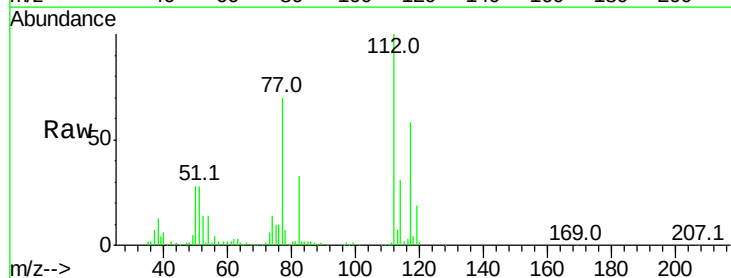


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

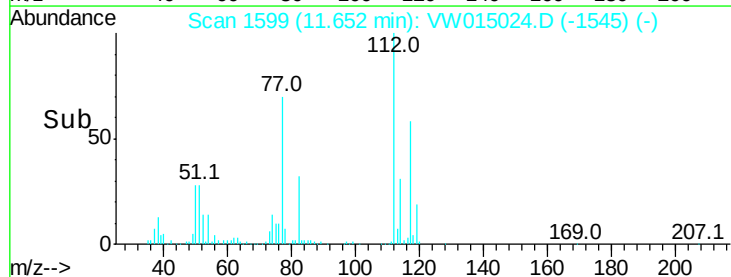
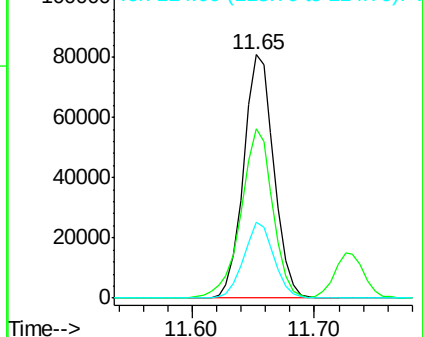


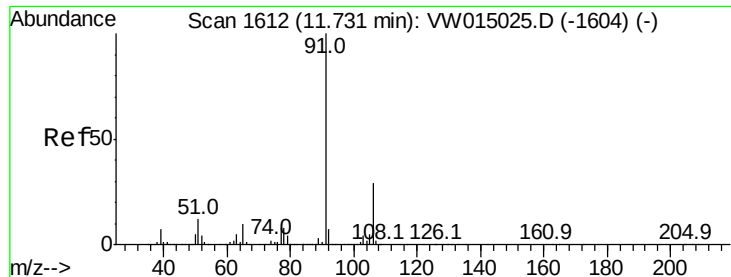
#52
 Chlorobenzene
 Concen: 4.937 ug/L
 RT: 11.65 min Scan# 1599
 Delta R.T. 0.00 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

Tgt Ion:112 Resp: 138700
 Ion Ratio Lower Upper
 112 100
 77 69.8 57.0 85.6
 114 31.4 22.5 41.9



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: 4.687 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

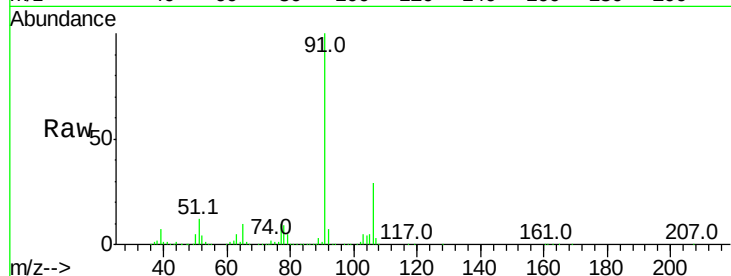
VSTD00502

Tgt Ion: 91 Resp: 235629

Ion Ratio Lower Upper

91 100

106 28.8 20.1 37.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

150000

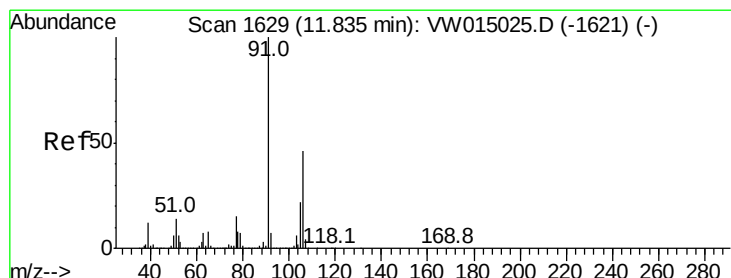
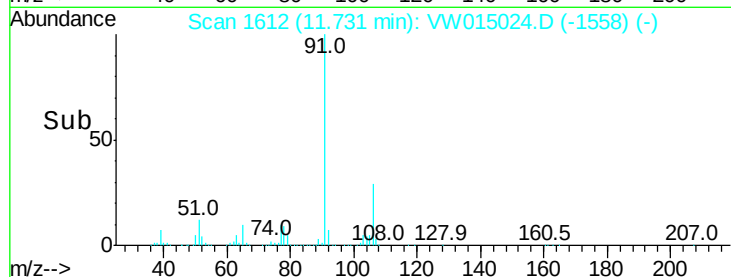
100000

50000

0

11.65 11.70 11.75 11.80

Time-->



#54

m,p-Xylene

Concen: 4.492 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW015024.D

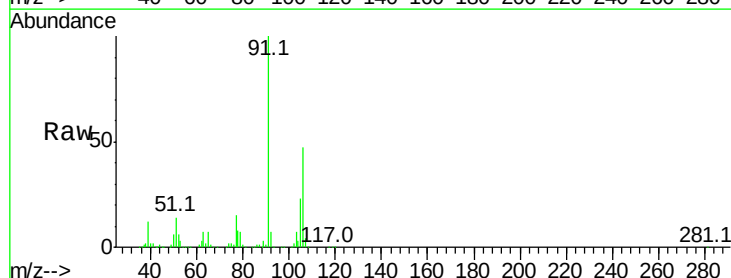
Acq: 24 Feb 2020 10:35

Tgt Ion: 106 Resp: 82474

Ion Ratio Lower Upper

106 100

91 211.7 151.4 281.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

100000

80000

60000

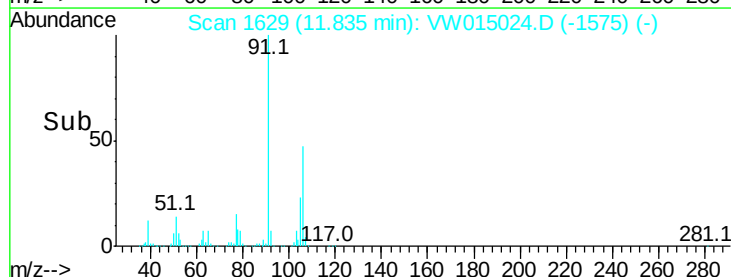
40000

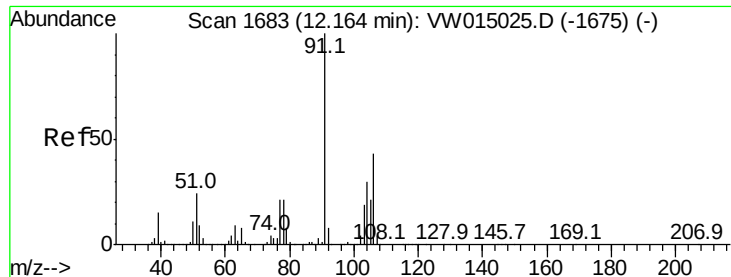
20000

0

11.75 11.80 11.85 11.90

Time-->





#55

o-xylene

Concen: 4.153 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

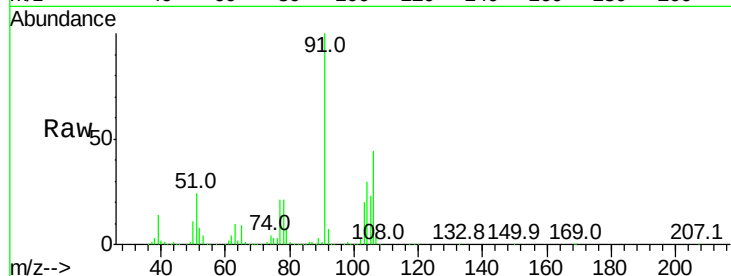
VSTD00502

Tgt Ion:106 Resp: 72573

Ion Ratio Lower Upper

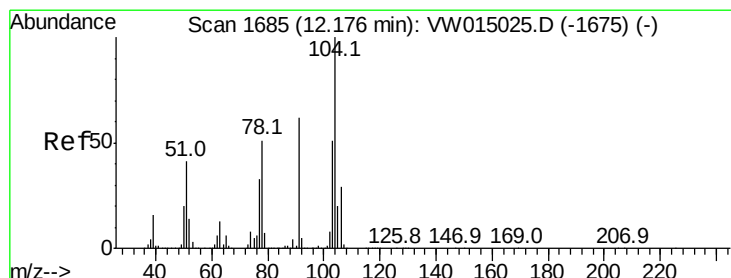
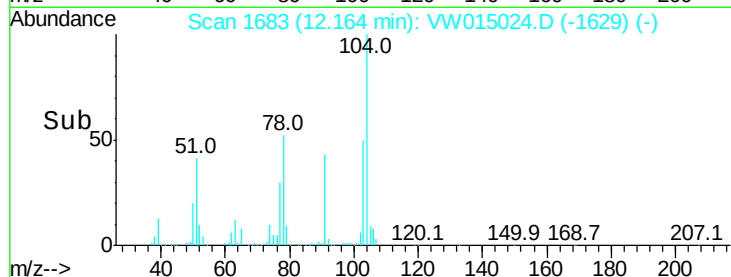
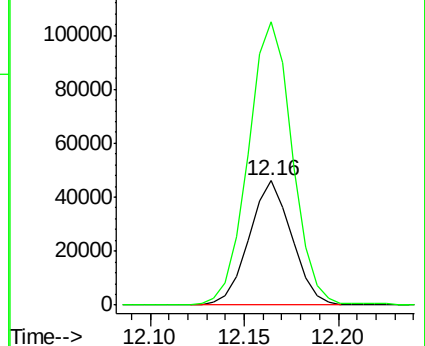
106 100

91 228.0 162.5 301.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 4.317 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW015024.D

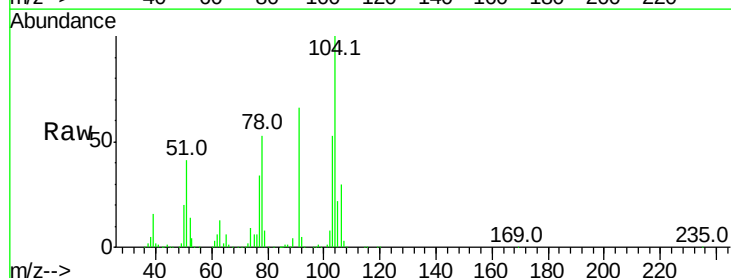
Acq: 24 Feb 2020 10:35

Tgt Ion:104 Resp: 127496

Ion Ratio Lower Upper

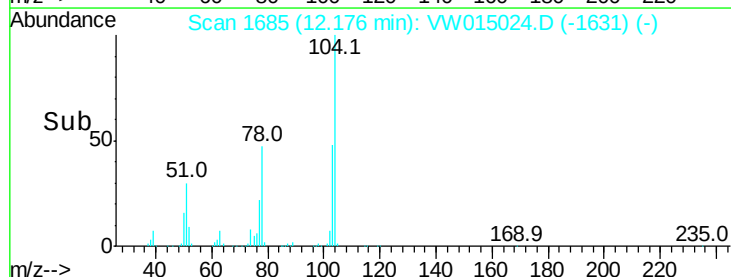
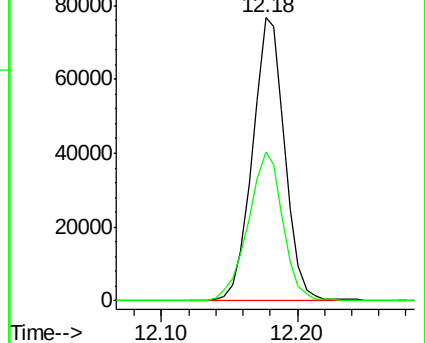
104 100

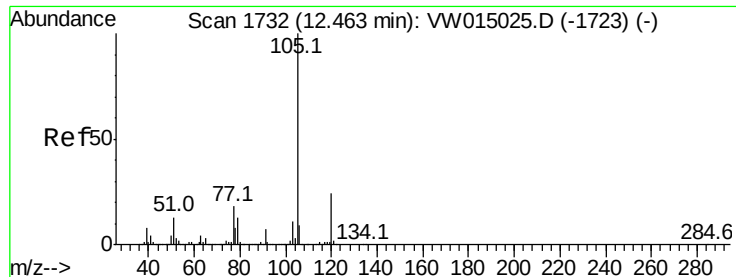
78 52.7 35.6 66.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 4.241 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

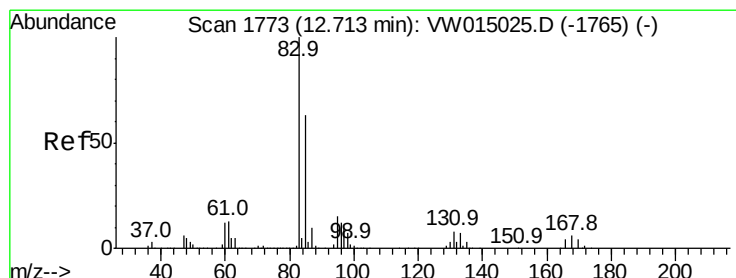
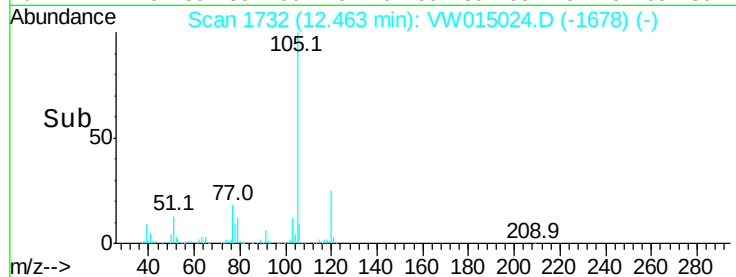
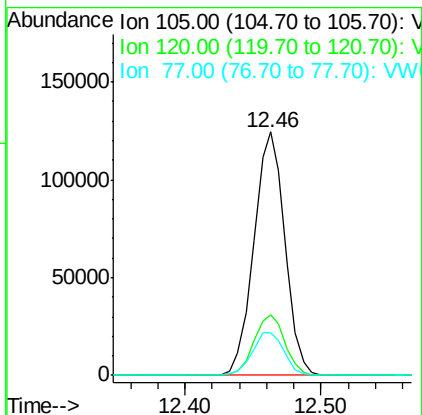
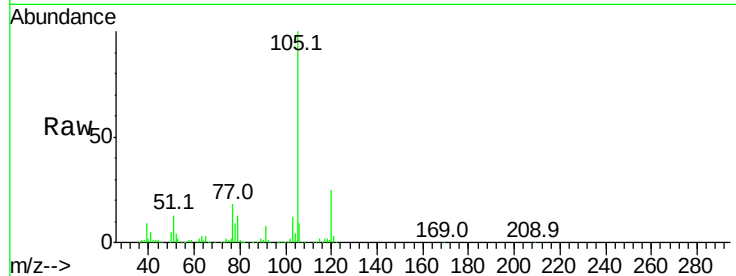
Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

Tgt Ion:	105	Resp:	199067
Ion Ratio	Lower	Upper	
105	100		
120	24.9	19.8	29.8
77	18.1	14.4	21.6



#58

1,1,2,2-Tetrachloroethane

Concen: 5.102 ug/L

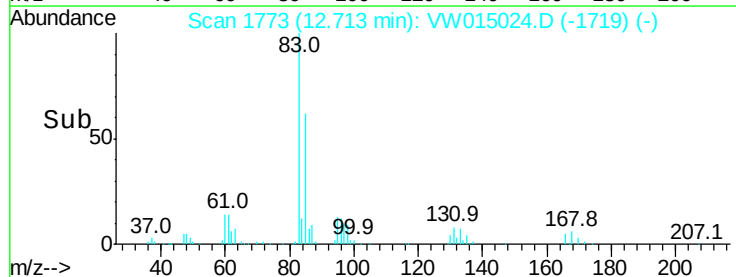
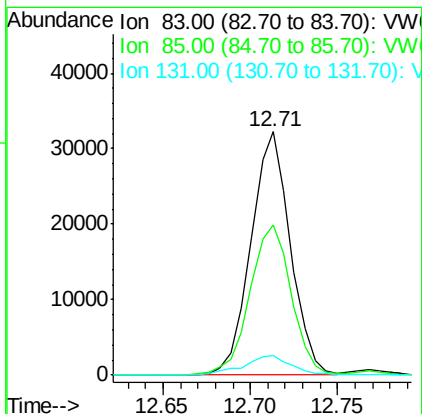
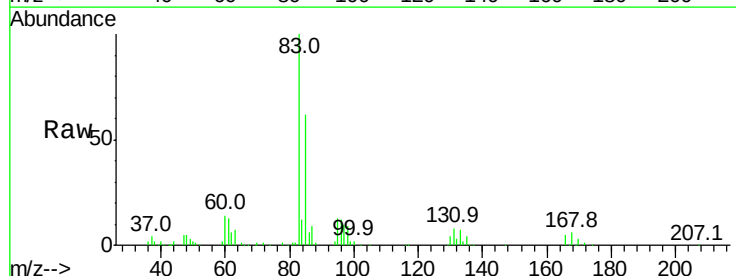
RT: 12.71 min Scan# 1773

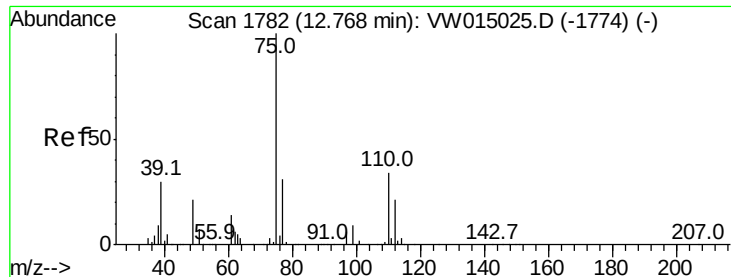
Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Tgt Ion:	83	Resp:	50781
Ion Ratio	Lower	Upper	
83	100		
85	61.9	44.2	82.0
131	8.0	6.3	9.5





#59

1,2,3-Trichloropropane

Concen: 5.300 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampled :

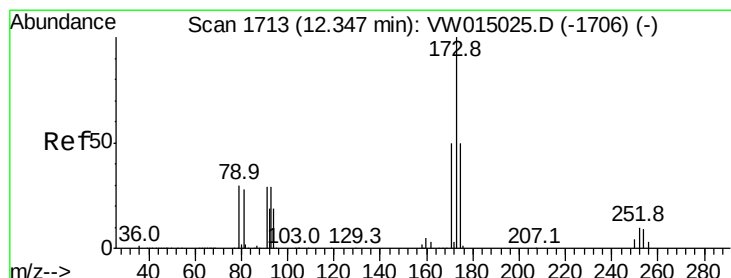
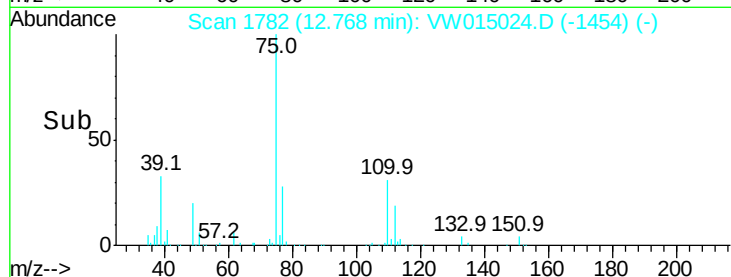
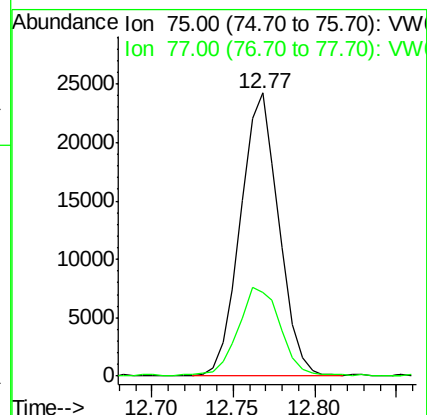
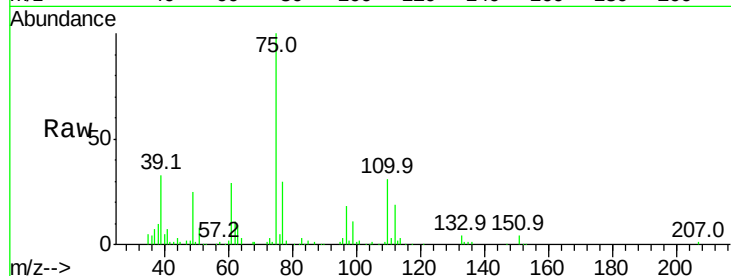
VSTD00502

Tgt Ion: 75 Resp: 39687

Ion Ratio Lower Upper

75 100

77 34.9 25.4 38.0



#62

Bromoform

Concen: 4.760 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

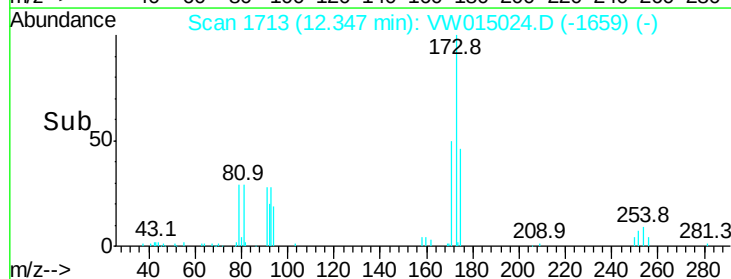
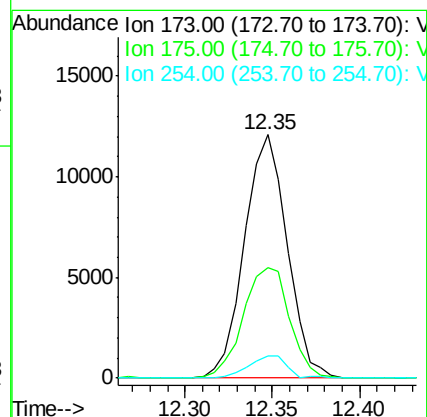
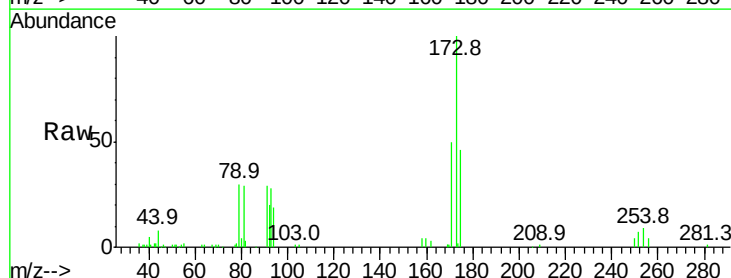
Tgt Ion: 173 Resp: 20501

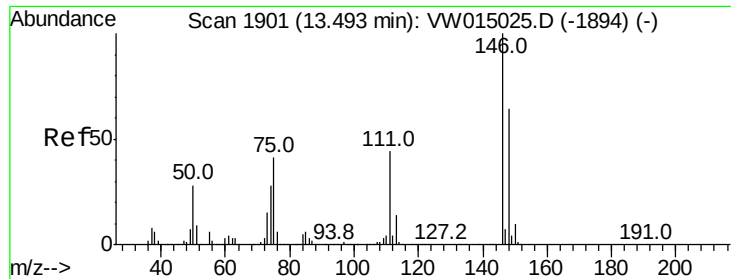
Ion Ratio Lower Upper

173 100

175 49.5 38.7 58.1

254 8.0 7.0 10.4

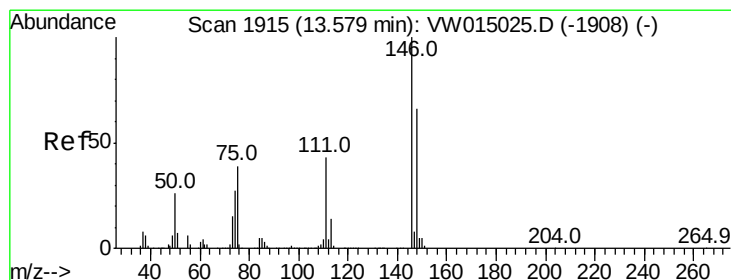
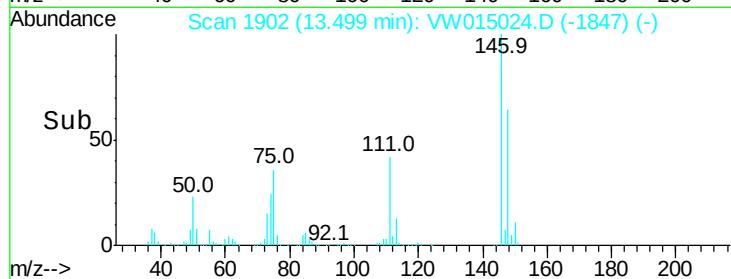
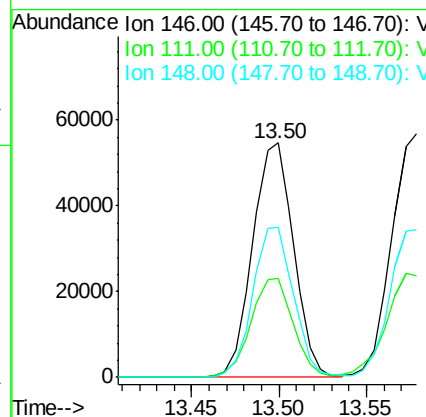
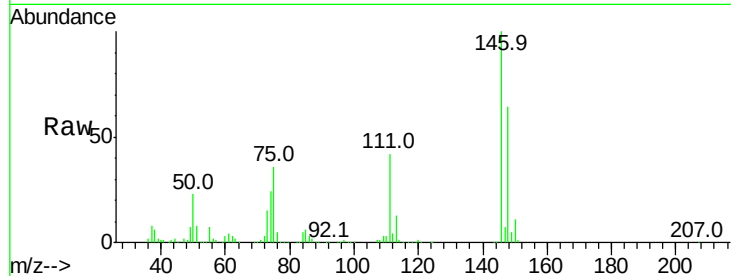




#63
 1,3-Dichlorobenzene
 Concen: 4.664 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.01 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

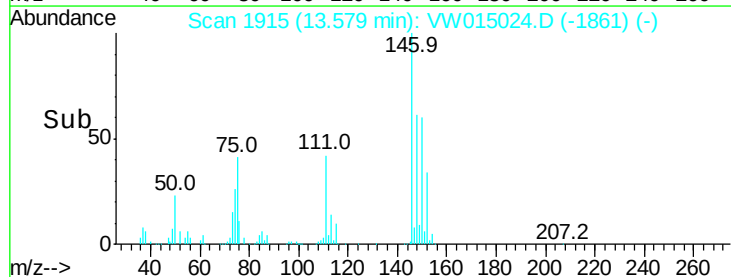
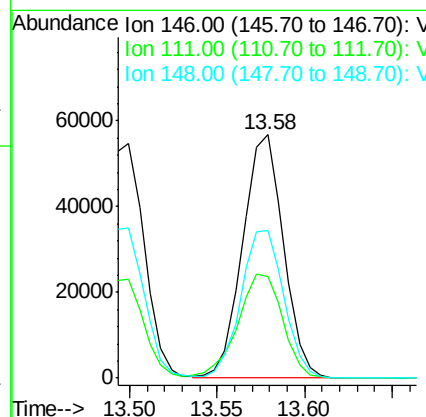
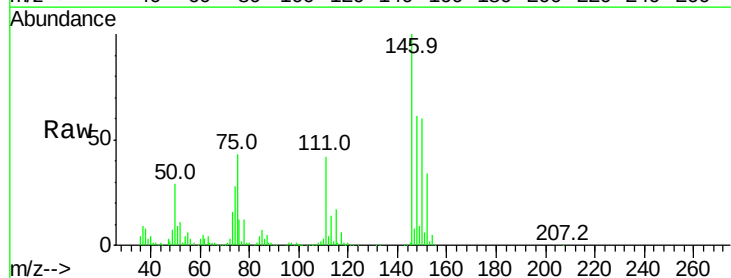
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

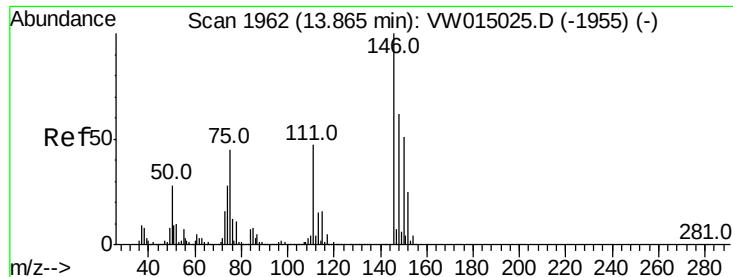
Tgt Ion:146 Resp: 89015
 Ion Ratio Lower Upper
 146 100
 111 42.1 30.9 57.3
 148 63.7 44.6 82.8



#64
 1,4-Dichlorobenzene
 Concen: 4.807 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

Tgt Ion:146 Resp: 92407
 Ion Ratio Lower Upper
 146 100
 111 41.8 29.9 55.5
 148 60.7 46.1 85.5

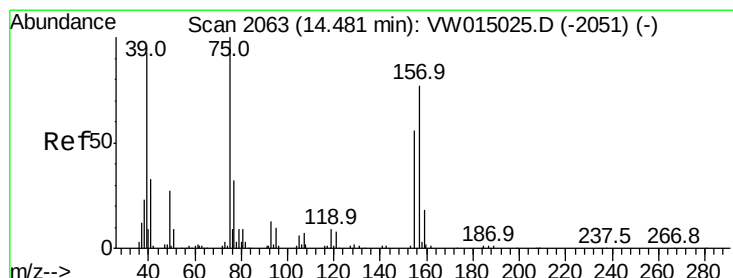
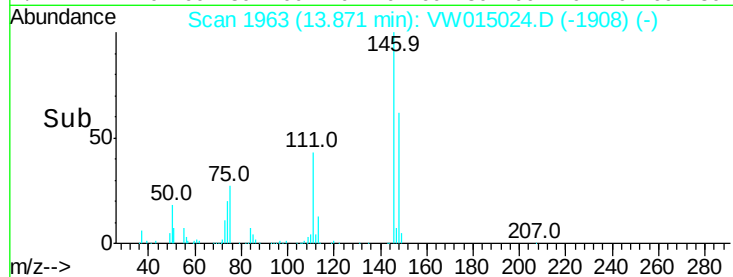
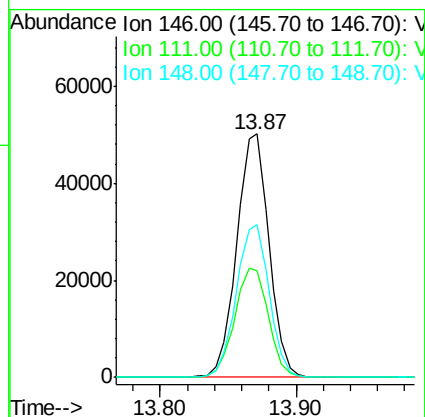
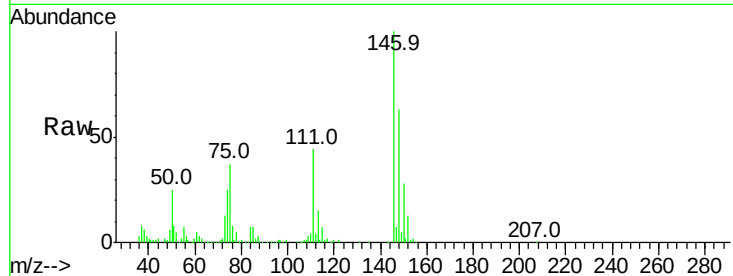




#65
 1,2-Dichlorobenzene
 Concen: 4.753 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

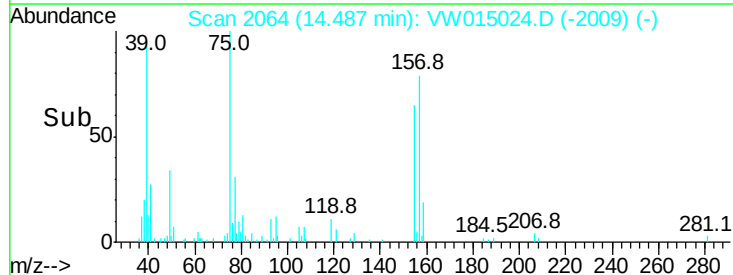
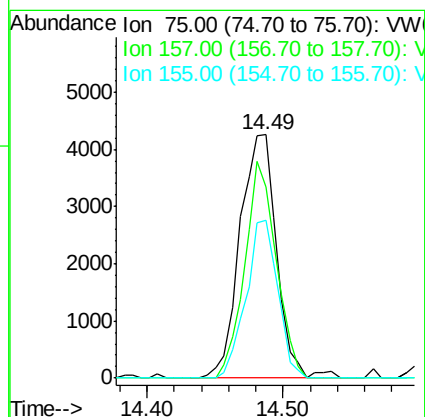
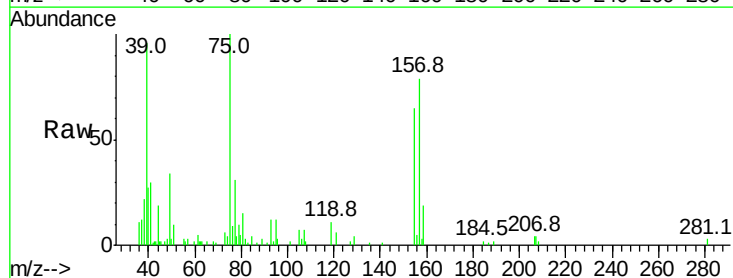
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

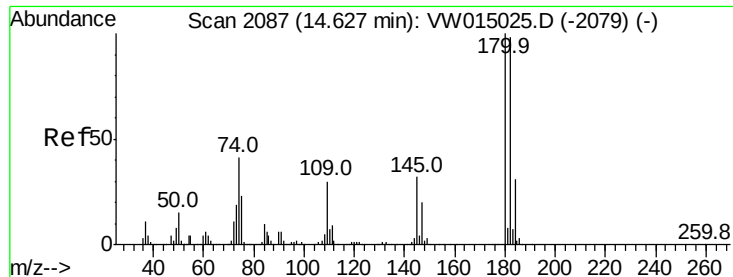
Tgt Ion:146 Resp: 82978
 Ion Ratio Lower Upper
 146 100
 111 43.7 37.7 56.5
 148 62.6 50.0 75.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.398 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

Tgt Ion: 75 Resp: 8035
 Ion Ratio Lower Upper
 75 100
 157 78.6 61.4 92.0
 155 64.8 45.0 67.6

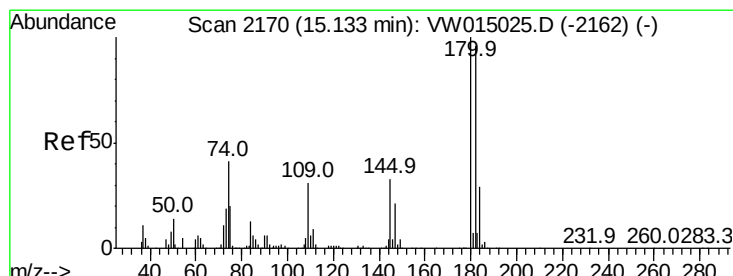
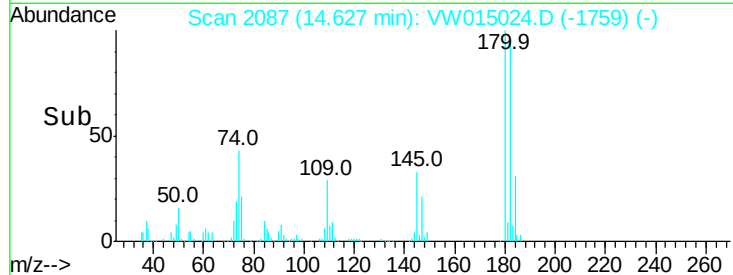
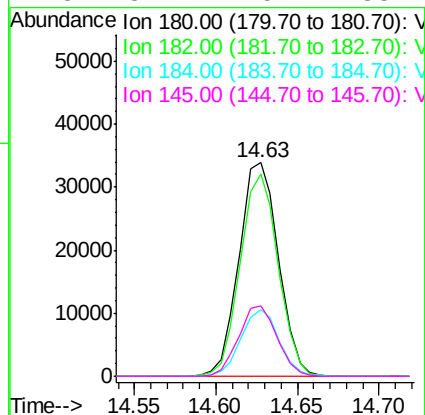
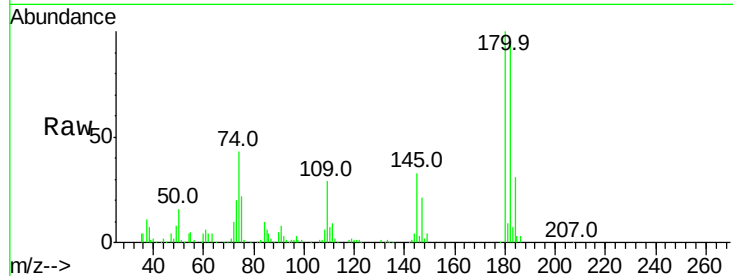




#67
 1,3,5-Trichlorobenzene
 Concen: 4.182 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

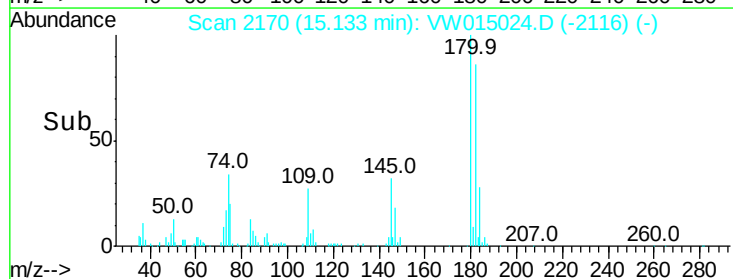
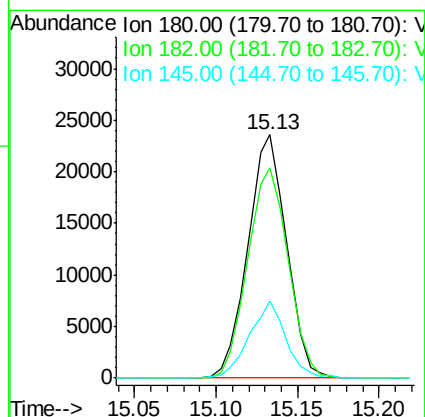
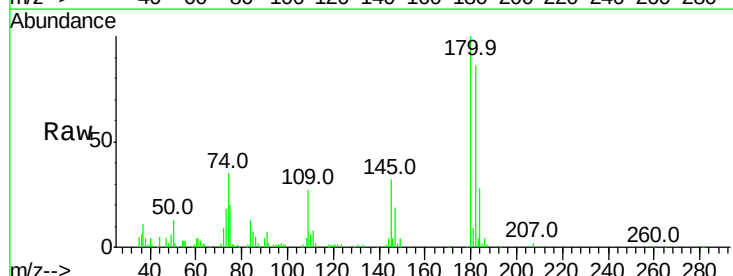
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

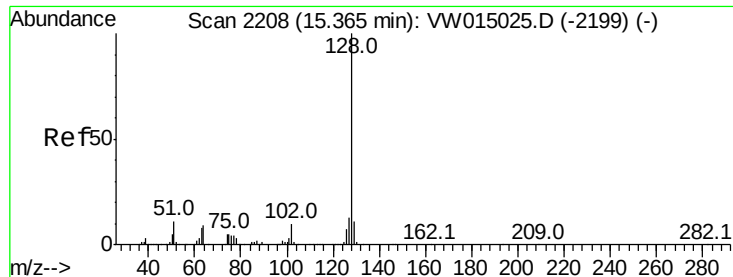
Tgt Ion:180 Resp: 57162
 Ion Ratio Lower Upper
 180 100
 182 91.2 75.4 113.0
 184 30.2 23.9 35.9
 145 32.1 25.4 38.2



#68
 1,2,4-trichlorobenzene
 Concen: 3.606 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015024.D
 Acq: 24 Feb 2020 10:35

Tgt Ion:180 Resp: 38940
 Ion Ratio Lower Upper
 180 100
 182 90.4 75.7 113.5
 145 30.1 25.9 38.9





#69

Naphthalene

Concen: 1.474 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

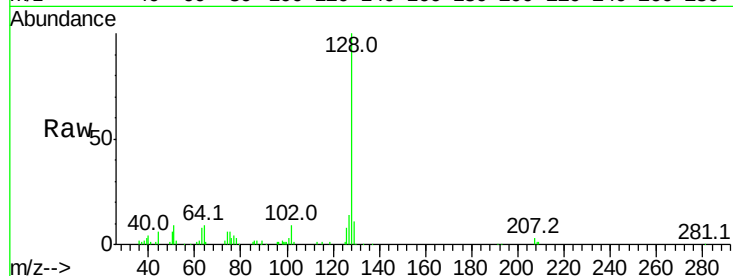
Tgt Ion:128 Resp: 31304

Ion Ratio Lower Upper

128 100

129 10.7 8.9 13.3

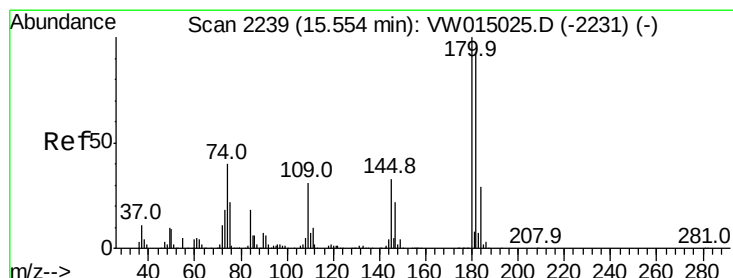
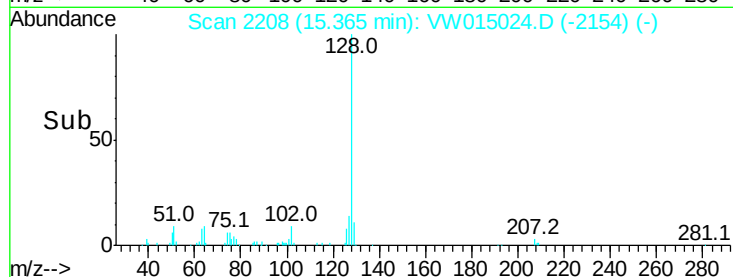
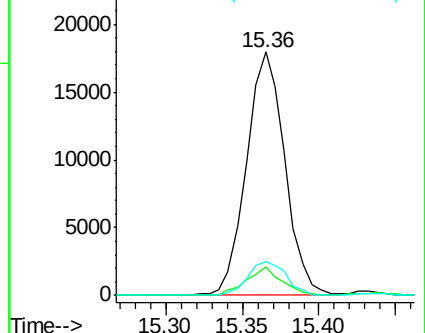
127 14.0 11.1 16.7



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: 3.445 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW015024.D

Acq: 24 Feb 2020 10:35

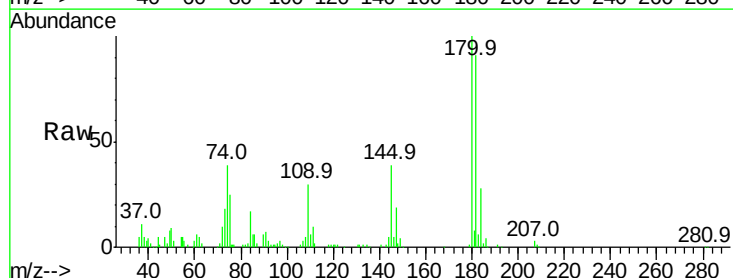
Tgt Ion:180 Resp: 34356

Ion Ratio Lower Upper

180 100

182 93.3 75.8 113.6

145 35.8 27.1 40.7



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

