

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102220\
 Data File : VW016960.D
 Acq On : 22 Oct 2020 10:05
 Operator : SY/VA
 Sample : VSTD2.503
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.503

Quant Time: Oct 22 12:07:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM102220S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 22 11:56:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	594566	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	530897	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	254348	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	18446	3.12	ug/L	0.00
7) Chloroethane-d5	2.90	69	14111	2.87	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.03	63	33491	2.69	ug/L	0.00
20) 2-Butanone-d5	7.10	46	5926	4.54	ug/L	0.01
24) Chloroform-d	7.65	84	36788	2.92	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	17887	2.97	ug/L	0.00
29) Benzene-d6	8.28	84	73242	3.03	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.28	67	19511	2.99	ug/L	0.00
37) Toluene-d8	10.33	98	67260	2.94	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	7566	2.66	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	5052	5.13	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	15614	3.01	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	24429	3.02	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	13255	1.887 ug/L	97
3) Chloromethane	2.21	50	13798	2.245 ug/L	93
5) Vinyl chloride	2.37	62	19866	2.424 ug/L	100
6) Bromomethane	2.79	94	13926	2.334 ug/L	98
8) Chloroethane	2.93	64	11253	2.245 ug/L	88
9) Trichlorofluoromethane	3.27	101	14220	2.227 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.08	101	19141	2.377 ug/L #	91
12) 1,1-Dichloroethene	4.05	96	17653	2.292 ug/L	94
13) Acetone	4.15	43	3110	3.156 ug/L	98
14) Carbon disulfide	4.39	76	58642	2.634 ug/L	98
16) Methylene chloride	4.92	84	22338	2.717 ug/L	97
17) Methyl tert-butyl Ether	5.44	73	20782	2.422 ug/L #	72
18) trans-1,2-Dichloroethene	5.43	96	19068	2.360 ug/L	97
19) 1,1-Dichloroethane	6.23	63	28939	2.329 ug/L	94
21) 2-Butanone	7.20	43	8272	4.968 ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	18826	2.285 ug/L	93
23) Bromochloromethane	7.52	128	8873	2.303 ug/L	97
25) Chloroform	7.68	83	31537	2.354 ug/L	98
27) 1,2-Dichloroethane	8.41	62	18369	2.328 ug/L	96
30) Cyclohexane	7.96	56	24100	2.182 ug/L	96
31) 1,1,1-Trichloroethane	7.88	97	26416	2.323 ug/L	99
32) Carbon tetrachloride	8.07	117	25467	2.319 ug/L	100
34) Benzene	8.33	78	71056	2.485 ug/L	100
35) Trichloroethene	9.10	95	18887	2.344 ug/L	98
36) Methylcyclohexane	9.34	83	30601	2.246 ug/L	99
40) 1,2-Dichloropropane	9.37	63	15770	2.437 ug/L	98
41) Bromodichloromethane	9.65	83	20049	2.218 ug/L	94
42) cis-1,3-Dichloropropene	10.08	75	21938	2.137 ug/L	93
43) 4-Methyl-2-pentanone	10.21	43	16252	5.090 ug/L	98
44) Toluene	10.39	91	73217	2.308 ug/L	99

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 ALS Vial : 3 Sample Multiplier: 1

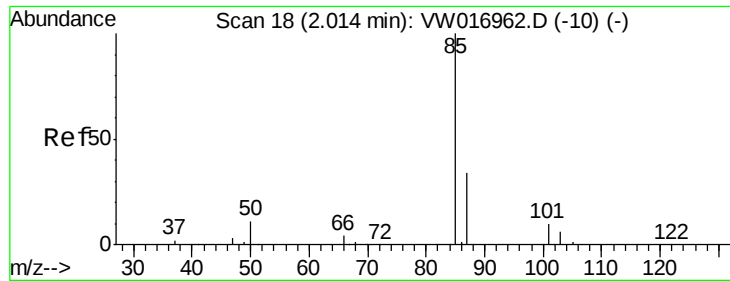
Instrument :
 MSVOA_W
 ClientSampleId :
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Quant Time: Oct 22 12:07:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM102220S.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) trans-1,3-Dichloropropene	10.61	75	17765	2.063	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	13343	2.552	ug/L	99
47) Tetrachloroethene	10.87	164	18108	2.422	ug/L	92
49) 2-Hexanone	10.98	43	9383	4.477	ug/L	96
50) Dibromochloromethane	11.13	129	14506	2.244	ug/L	95
51) 1,2-Dibromoethane	11.24	107	11758	2.310	ug/L #	98
52) Chlorobenzene	11.66	112	51235	2.416	ug/L	99
53) Ethylbenzene	11.73	91	80667	2.262	ug/L	100
54) m,p-Xylene	11.84	106	31450	2.269	ug/L	99
55) o-xylene	12.17	106	28184	2.151	ug/L	96
56) Styrene	12.18	104	45561	2.088	ug/L	96
57) Isopropylbenzene	12.47	105	78600	2.175	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	13903	2.430	ug/L	92
59) 1,2,3-Trichloropropane	12.77	75	10357	2.500	ug/L	98
62) Bromoform	12.35	173	8196	2.292	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	38700	2.384	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	39526	2.429	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	34796	2.396	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	1819	2.114	ug/L	85
67) 1,3,5-Trichlorobenzene	14.63	180	27447	2.276	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	18969	1.933	ug/L	97
69) Naphthalene	15.37	128	27810	1.733	ug/L	97
70) 1,2,3-Trichlorobenzene	15.56	180	17358	2.065	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 1.887 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

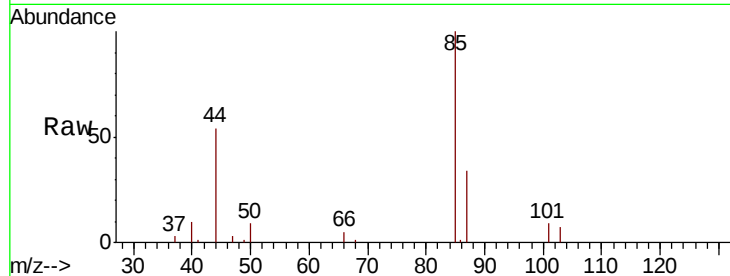
VSTD2.503

Tot Ion: 85 Resp: 13255

Ion Ratio Lower Upper

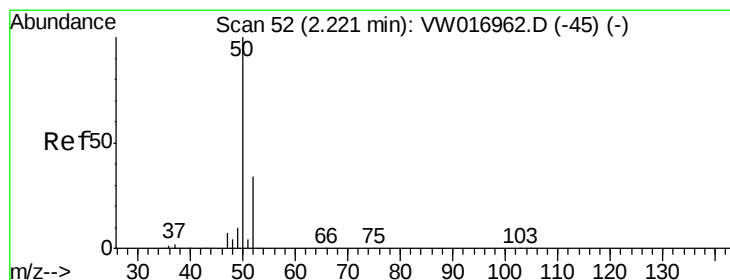
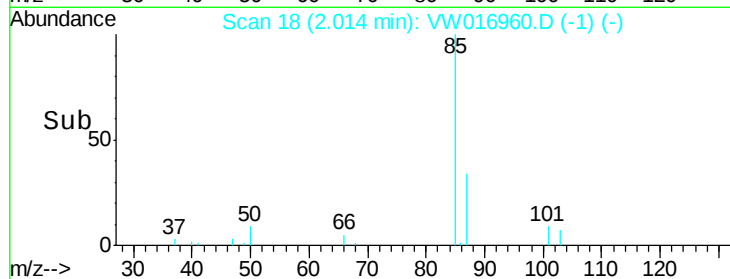
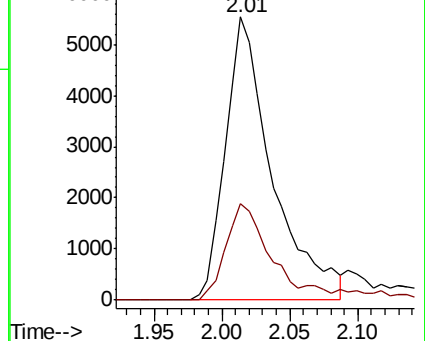
85 100

87 30.3 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 2.245 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW016960.D

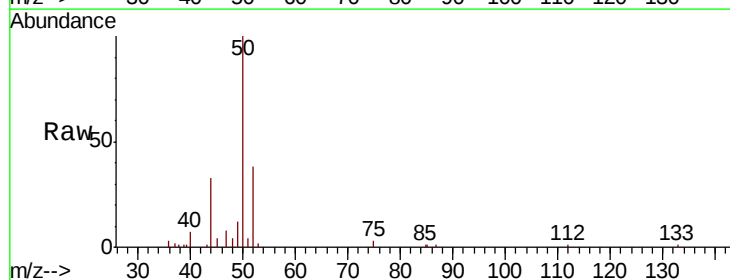
Acq: 22 Oct 2020 10:05

Tgt Ion: 50 Resp: 13798

Ion Ratio Lower Upper

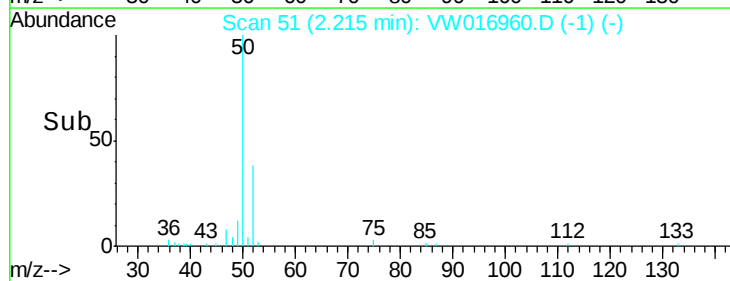
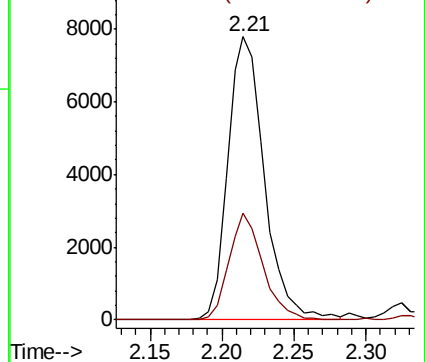
50 100

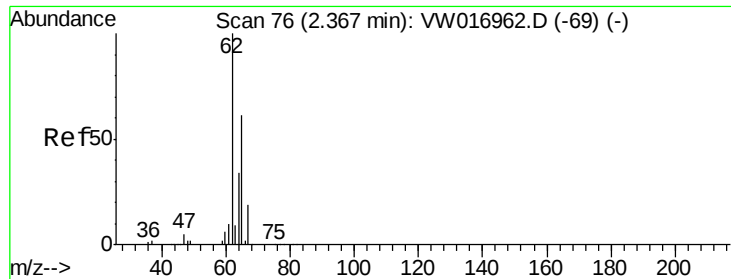
52 37.7 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 2.424 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

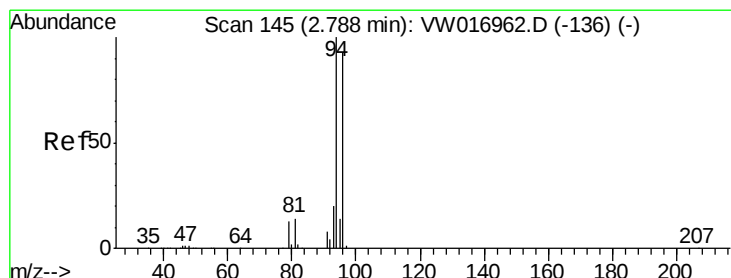
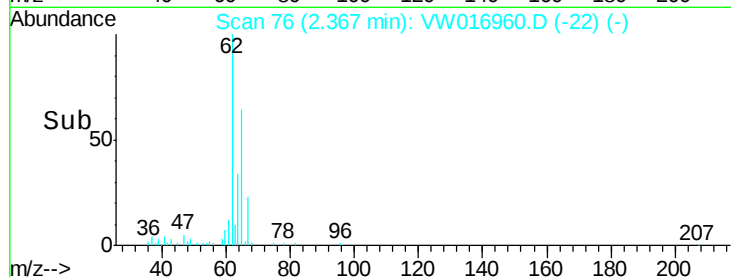
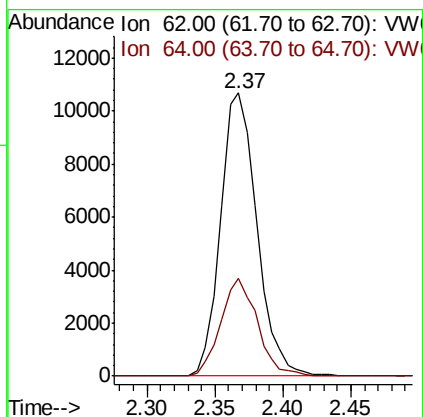
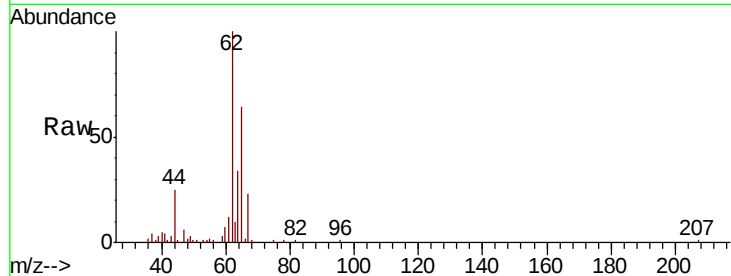
VSTD2.503

Tot Ion: 62 Resp: 19866

Ion Ratio Lower Upper

62 100

64 34.5 24.1 44.7



#6

Bromomethane

Concen: 2.334 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.00 min

Lab File: VW016960.D

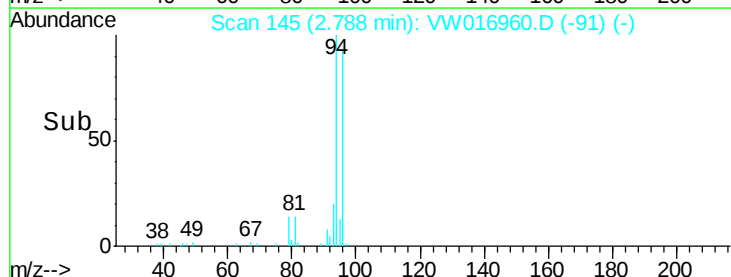
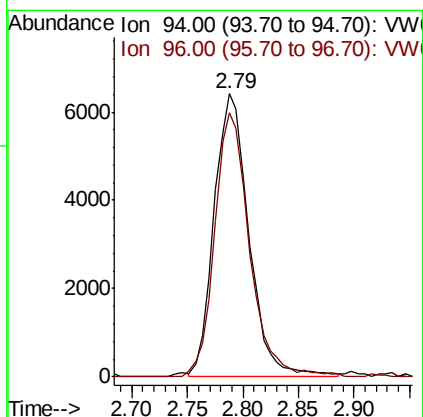
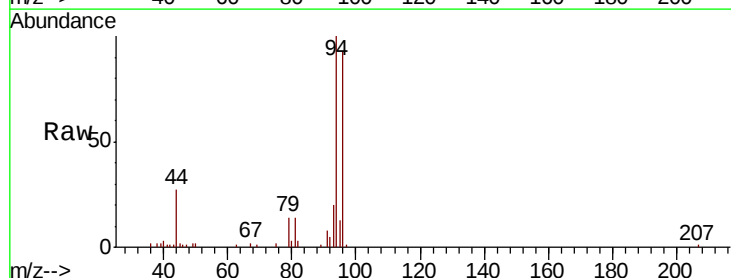
Acq: 22 Oct 2020 10:05

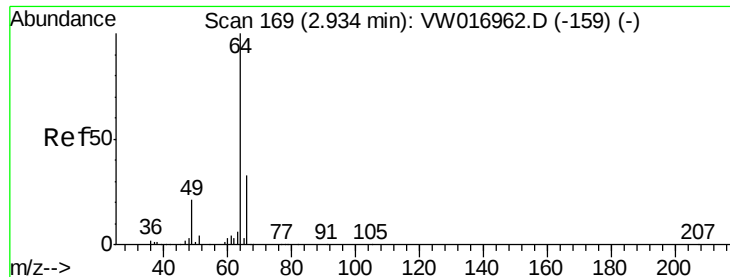
Tgt Ion: 94 Resp: 13926

Ion Ratio Lower Upper

94 100

96 91.8 9.4 178.8





#8

Chloroethane

Concen: 2.245 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

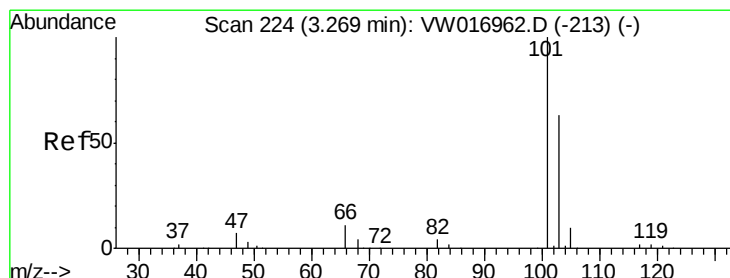
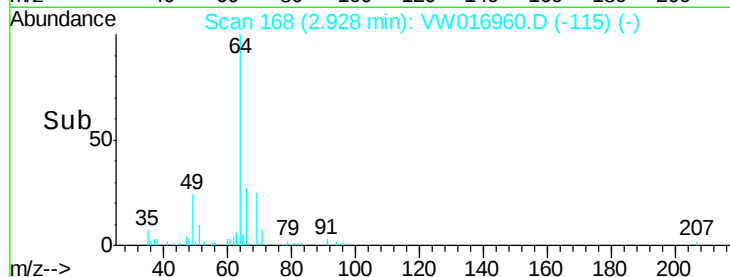
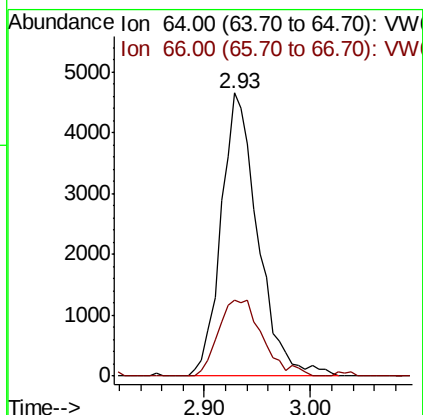
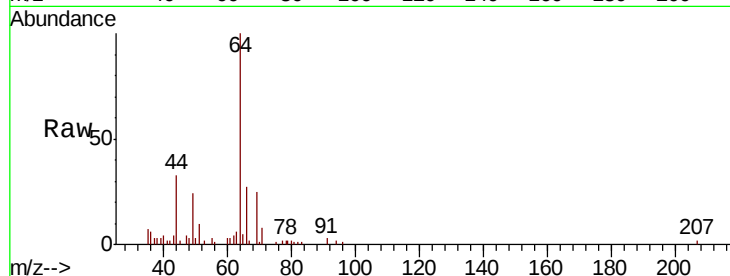
VSTD2.503

Tot Ion: 64 Resp: 11253

Ion Ratio Lower Upper

64 100

66 26.9 23.4 43.6



#9

Trichlorofluoromethane

Concen: 2.227 ug/L

RT: 3.27 min Scan# 224

Delta R.T. 0.00 min

Lab File: VW016960.D

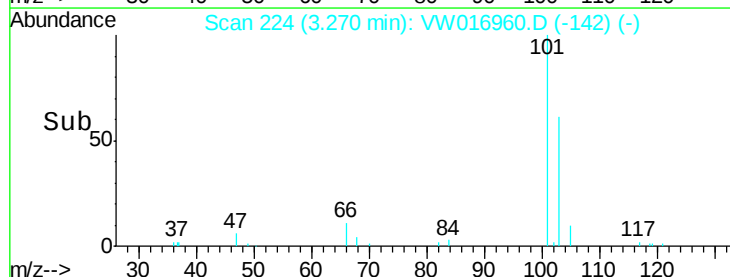
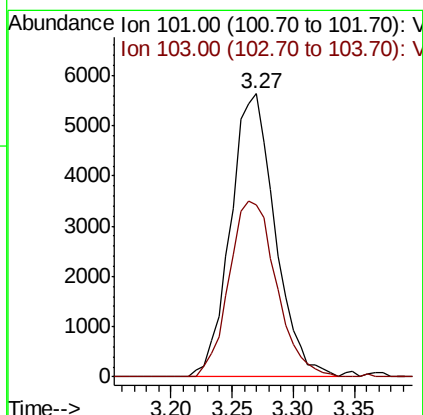
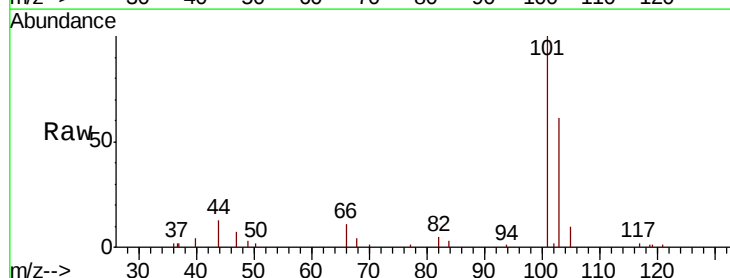
Acq: 22 Oct 2020 10:05

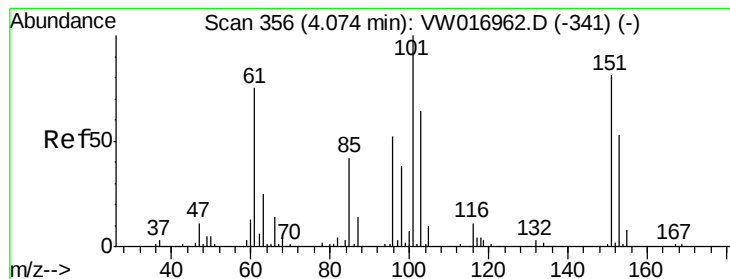
Tgt Ion: 101 Resp: 14220

Ion Ratio Lower Upper

101 100

103 66.0 44.9 83.5





#11

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

Concen: 2.377 ug/L

RT: 4.08 min Scan# 357

Delta R.T. 0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

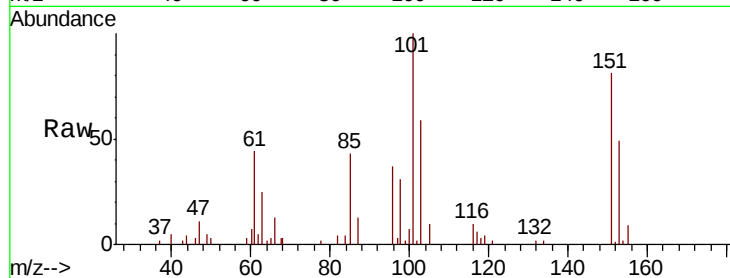
Tot Ion:101 Resp: 19141

Ion Ratio Lower Upper

101 100

85 26.2 32.5 48.7#

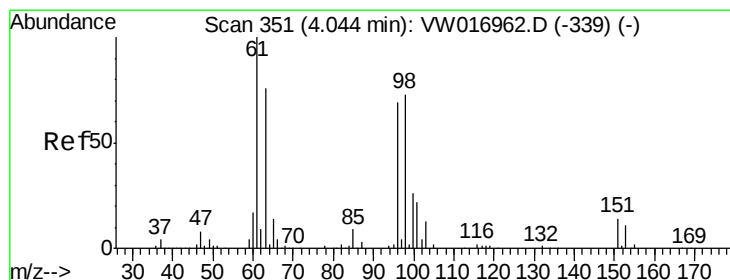
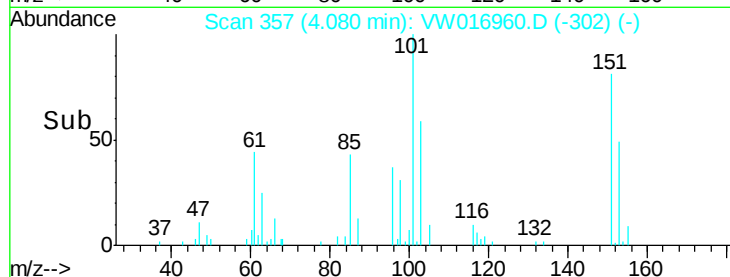
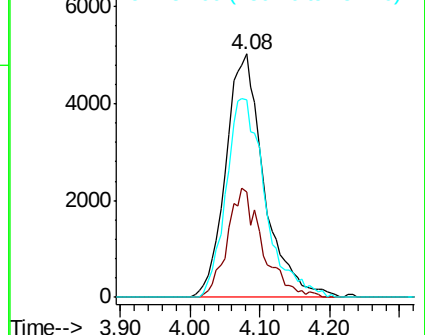
151 83.4 65.7 98.5



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: 2.292 ug/L

RT: 4.05 min Scan# 352

Delta R.T. 0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

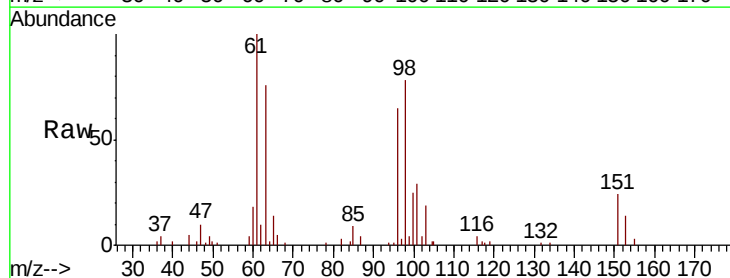
Tgt Ion: 96 Resp: 17653

Ion Ratio Lower Upper

96 100

61 153.5 101.4 188.4

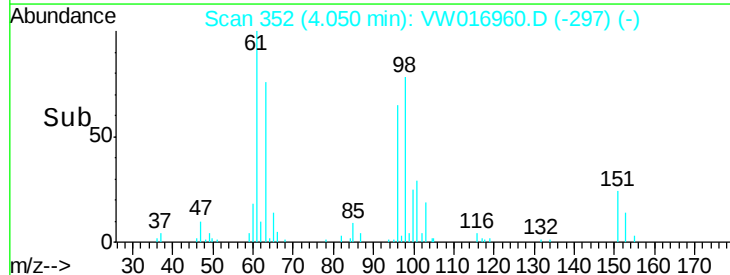
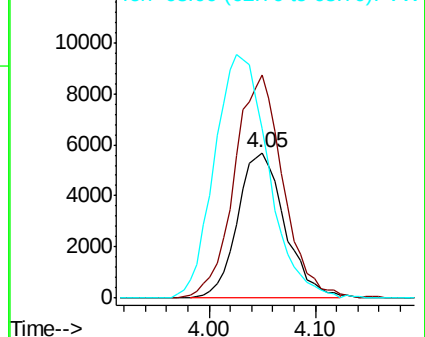
63 116.7 78.5 145.9

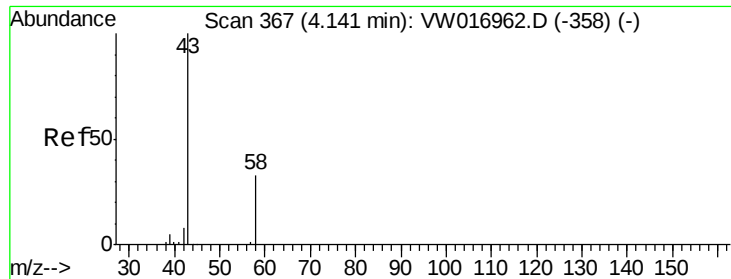


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 3.156 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

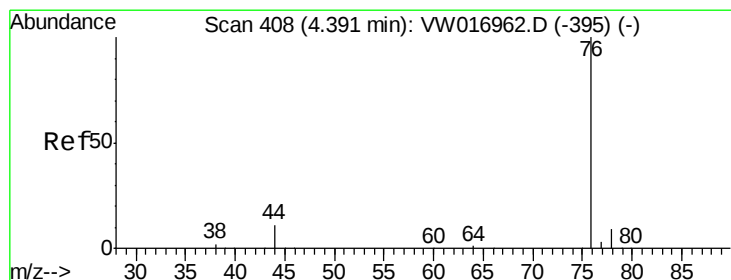
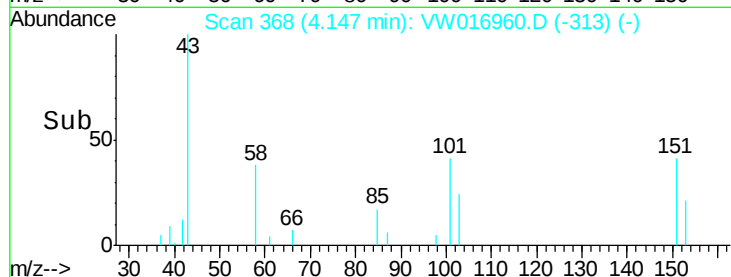
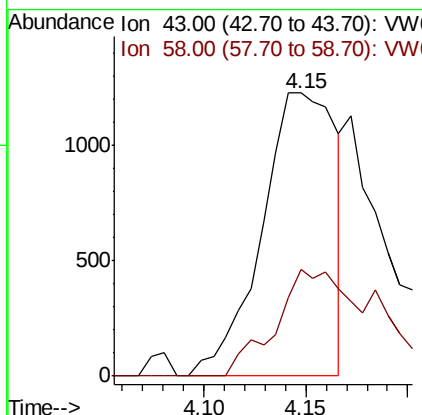
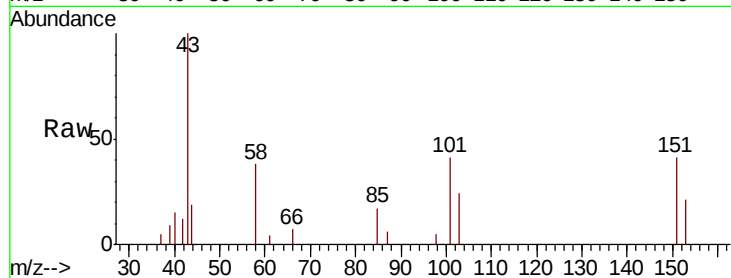
VSTD2.503

Tot Ion: 43 Resp: 3110

Ion Ratio Lower Upper

43 100

58 33.5 0.0 69.8



#14

Carbon disulfide

Concen: 2.634 ug/L

RT: 4.39 min Scan# 407

Delta R.T. -0.01 min

Lab File: VW016960.D

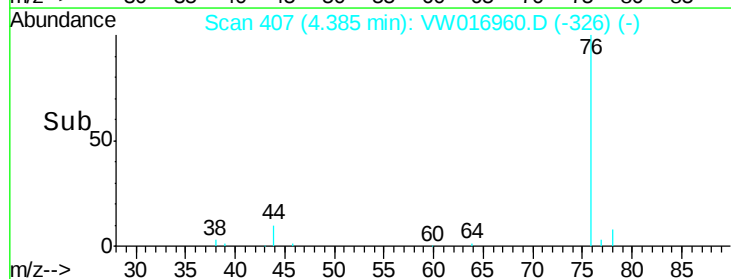
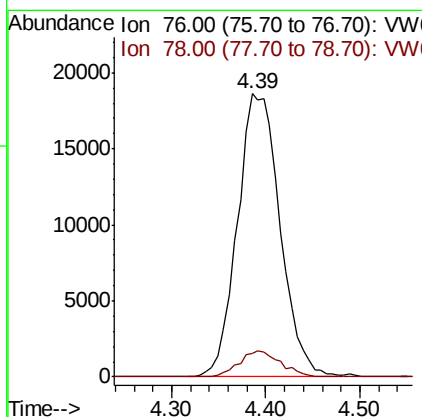
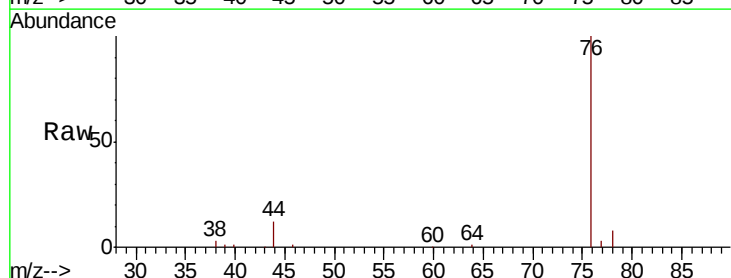
Acq: 22 Oct 2020 10:05

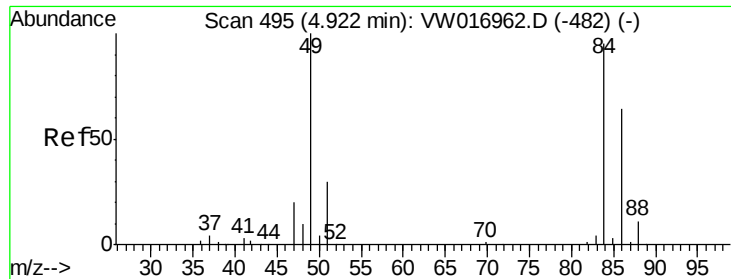
Tgt Ion: 76 Resp: 58642

Ion Ratio Lower Upper

76 100

78 8.3 7.3 10.9

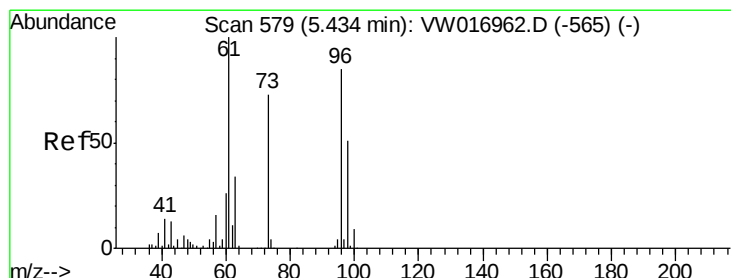
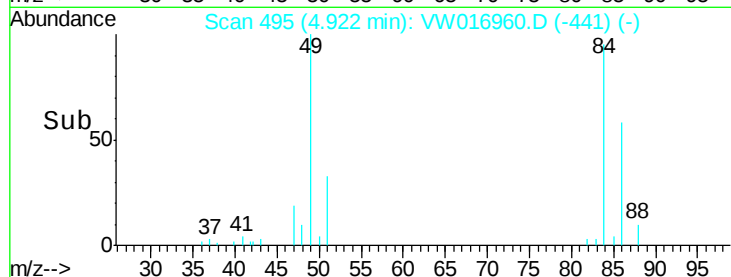
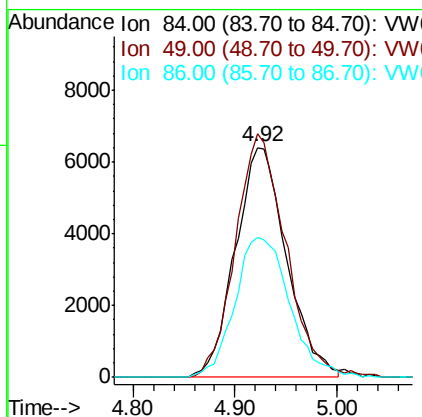
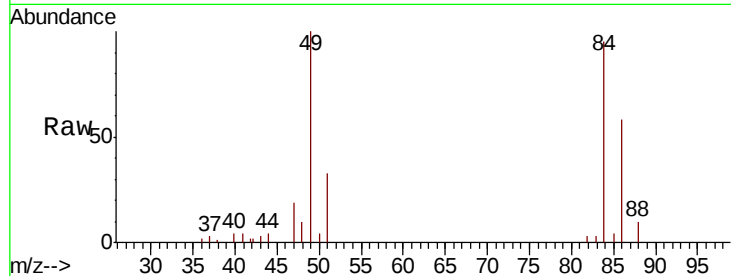




#16
Methylene chloride
Concen: 2.717 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

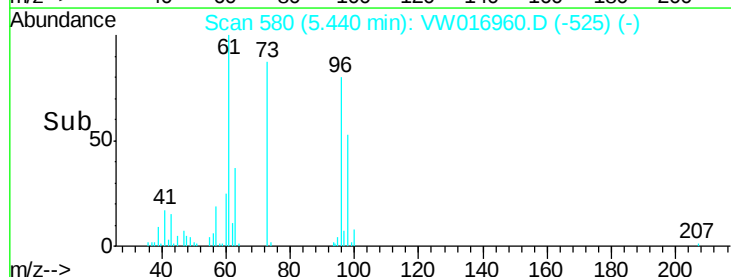
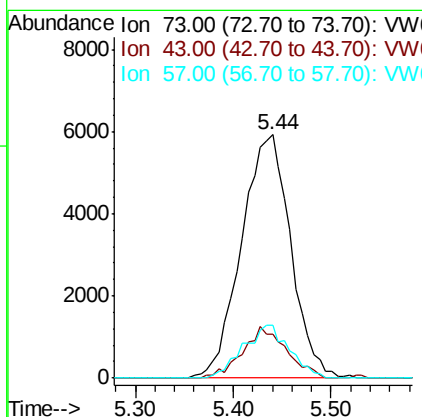
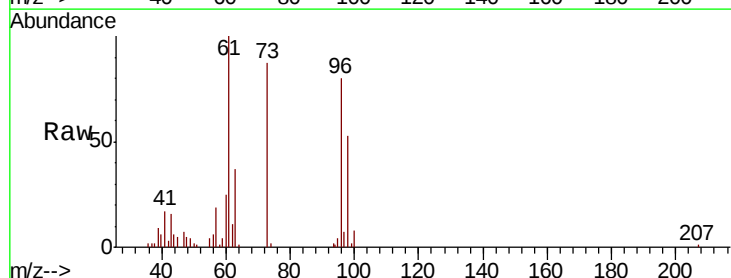
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.503

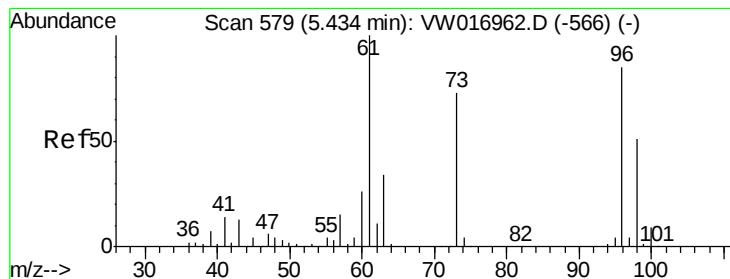
Tot Ion: 84 Resp: 22338
Ion Ratio Lower Upper
84 100
49 105.8 73.8 137.0
86 61.0 47.4 88.0



#17
Methyl tert-butyl Ether
Concen: 2.422 ug/L
RT: 5.44 min Scan# 580
Delta R.T. 0.01 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

Tgt Ion: 73 Resp: 20782
Ion Ratio Lower Upper
73 100
43 0.0 14.4 21.6#
57 13.3 16.6 25.0#





#18

trans-1,2-Dichloroethene

Concen: 2.360 ug/L

RT: 5.43 min Scan# 579

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

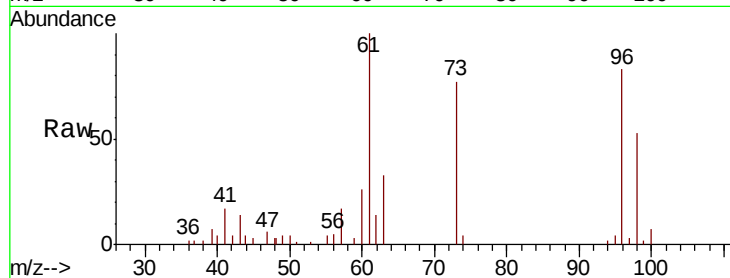
Tot Ion: 96 Resp: 19068

Ion Ratio Lower Upper

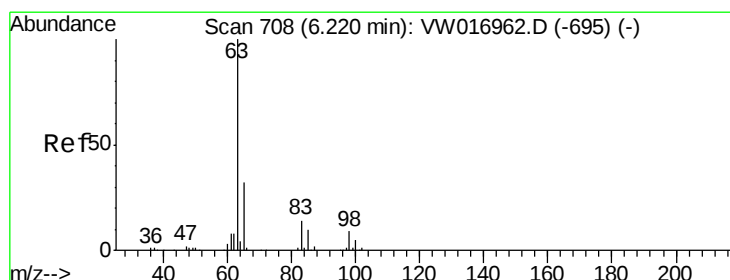
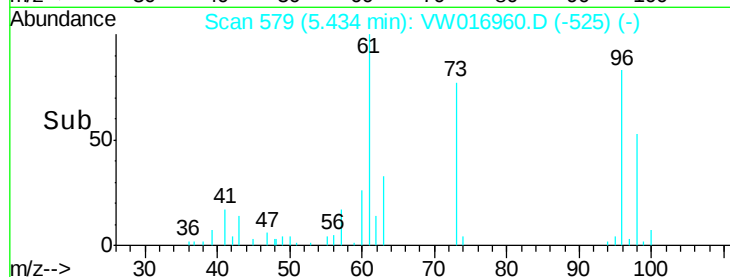
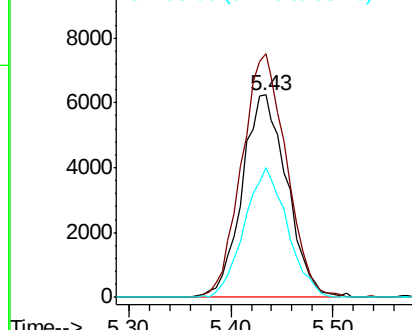
96 100

61 120.2 82.7 153.7

98 63.8 42.6 79.0



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: 2.329 ug/L

RT: 6.23 min Scan# 709

Delta R.T. 0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

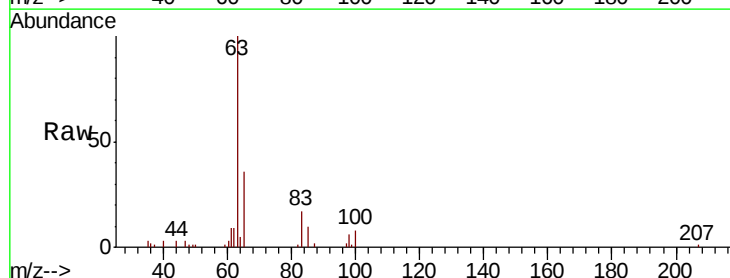
Tgt Ion: 63 Resp: 28939

Ion Ratio Lower Upper

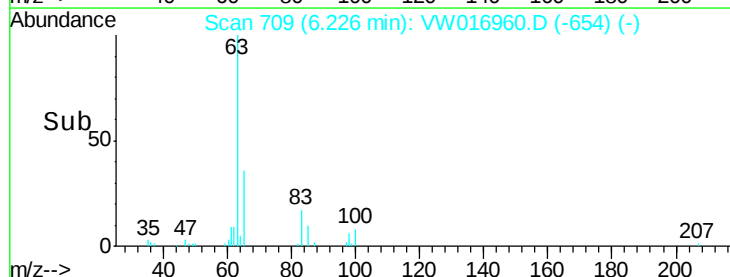
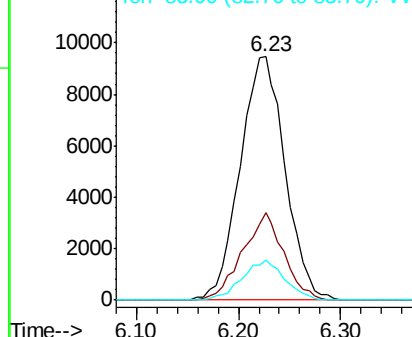
63 100

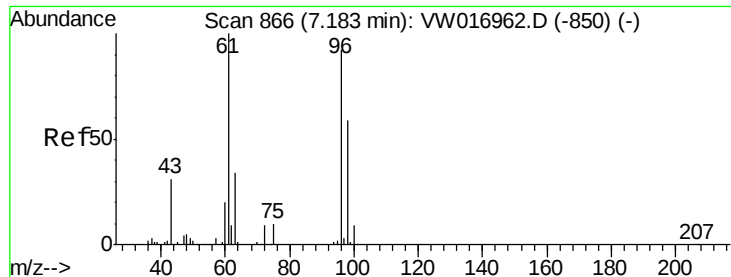
65 35.7 22.5 41.9

83 16.6 10.1 18.9



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





#21

2-Butanone

Concen: 4.968 ug/L

RT: 7.20 min Scan# 868

Delta R.T. 0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampled :

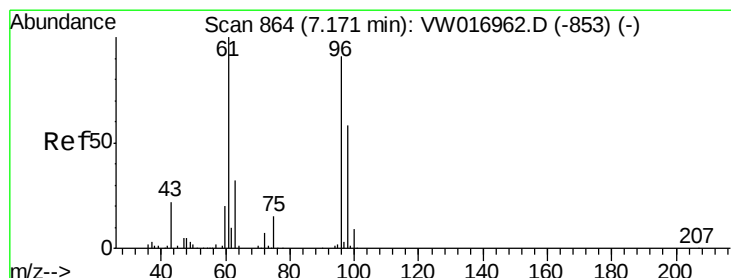
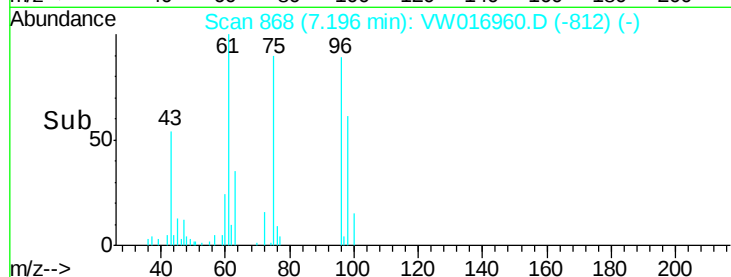
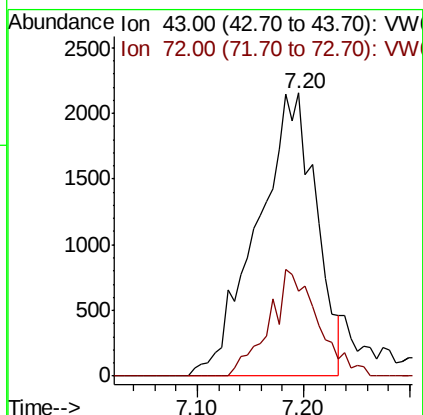
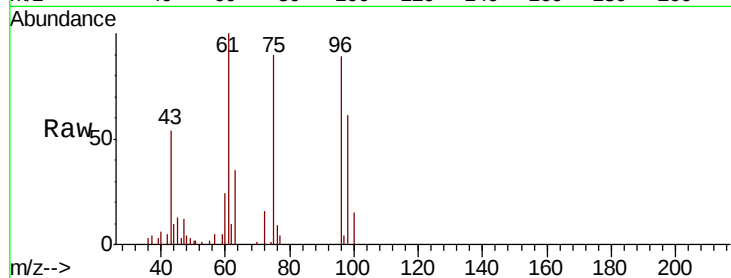
VSTD2.503

Tot Ion: 43 Resp: 8272

Ion Ratio Lower Upper

43 100

72 30.4 16.1 48.2



#22

cis-1,2-Dichloroethene

Concen: 2.285 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

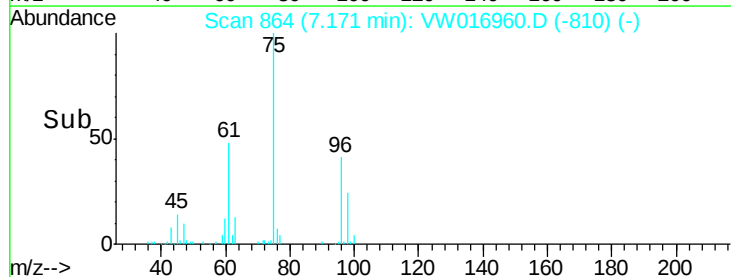
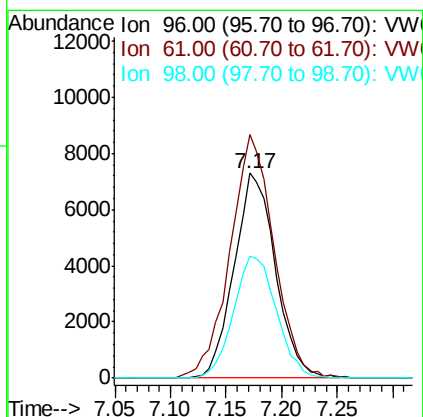
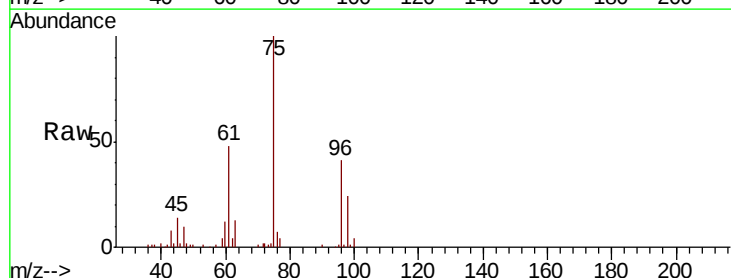
Tgt Ion: 96 Resp: 18826

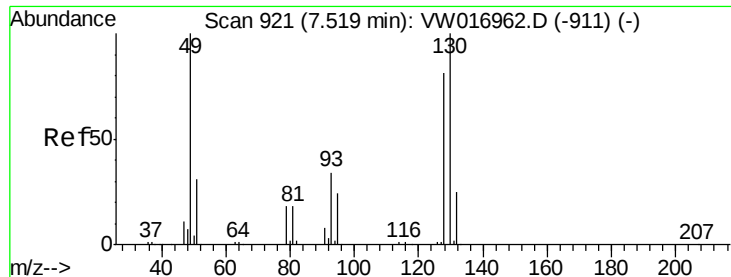
Ion Ratio Lower Upper

96 100

61 118.9 77.4 143.8

98 59.6 44.4 82.5





#23

Bromochloromethane

Concen: 2.303 ug/L

RT: 7.52 min Scan# 922

Delta R.T. 0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

Tot Ion:128 Resp: 8873

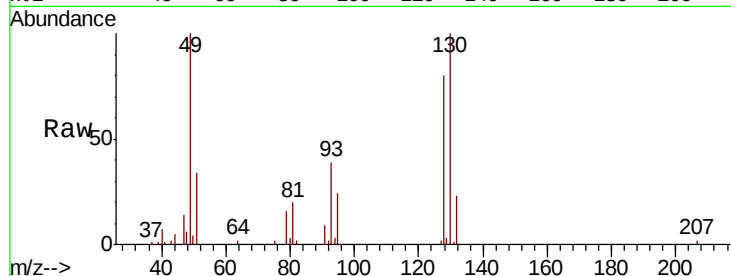
Ion Ratio Lower Upper

128 100

49 120.6 86.4 160.4

130 120.1 86.4 160.4

51 41.2 30.9 46.3

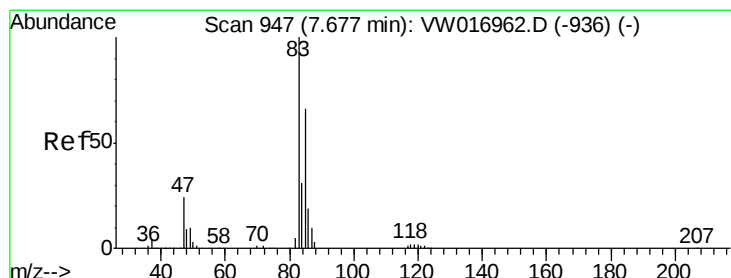
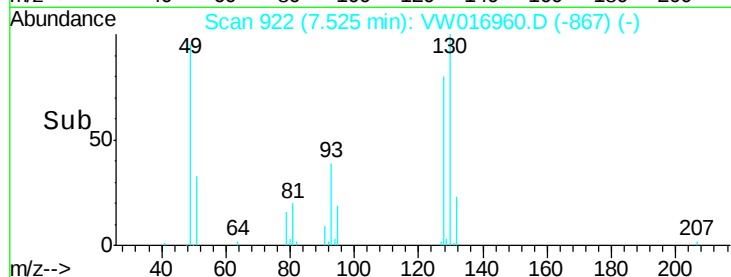
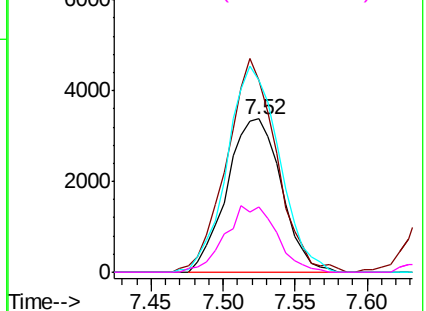


Abundance Ion 128.00 (127.70 to 128.70): V

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: 2.354 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW016960.D

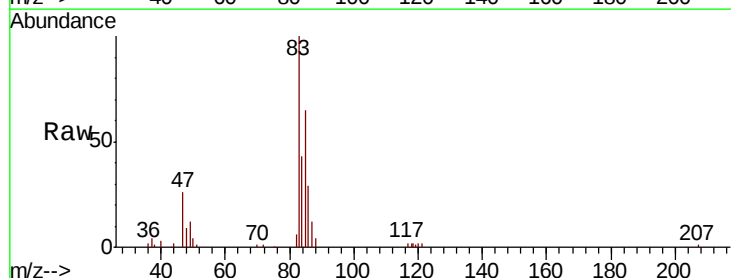
Acq: 22 Oct 2020 10:05

Tgt Ion: 83 Resp: 31537

Ion Ratio Lower Upper

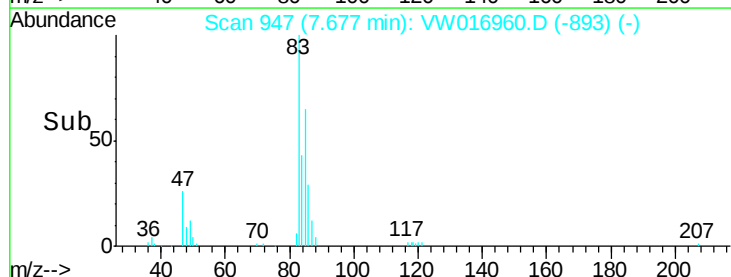
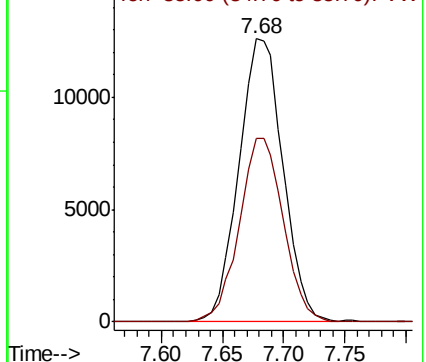
83 100

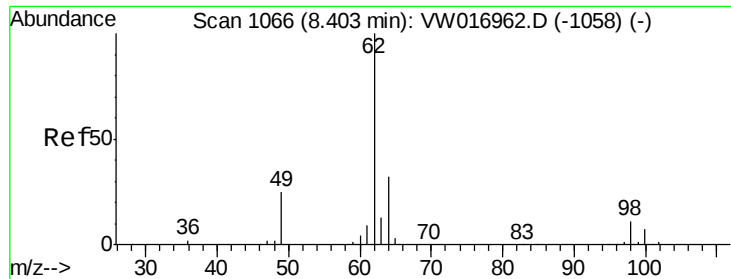
85 64.9 46.6 86.6



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

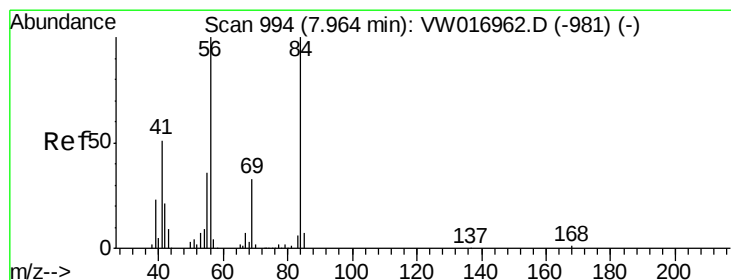
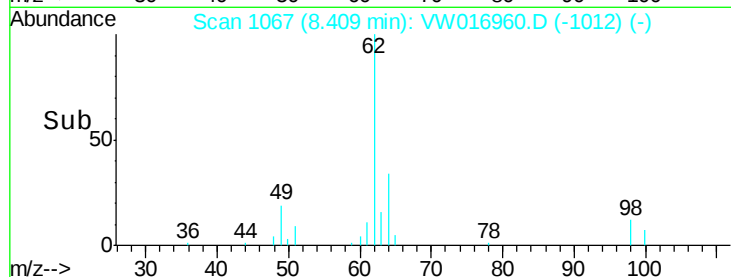
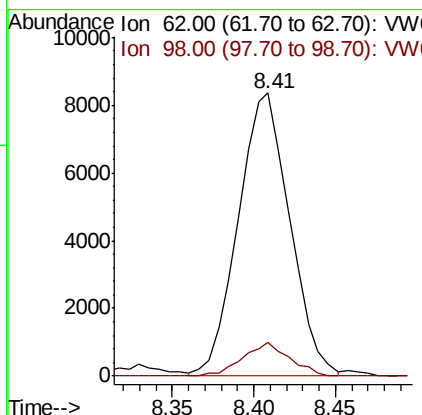
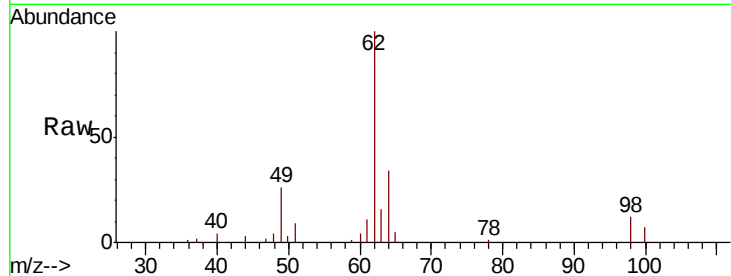




#27
 1,2-Dichloroethane
 Concen: 2.328 ug/L
 RT: 8.41 min Scan# 1067
 Delta R.T. 0.01 min
 Lab File: VW016960.D
 Acq: 22 Oct 2020 10:05

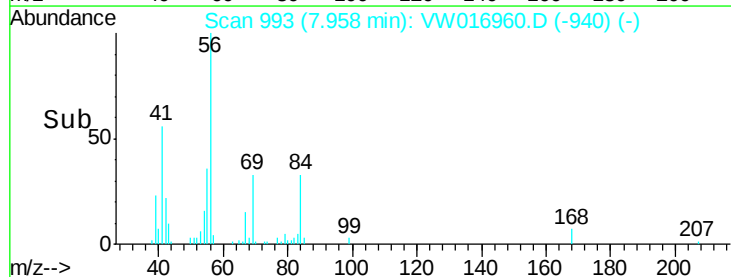
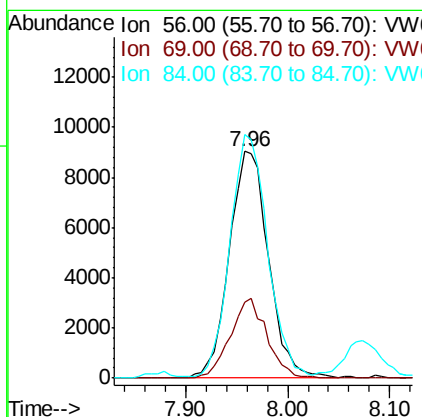
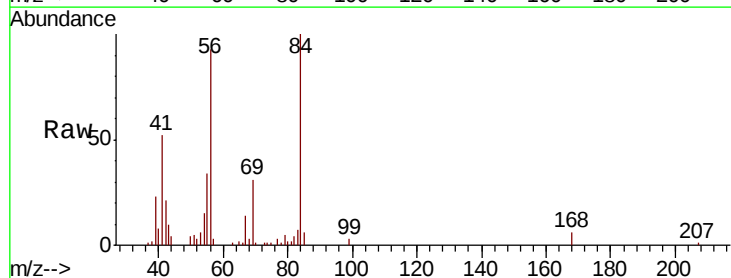
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.503

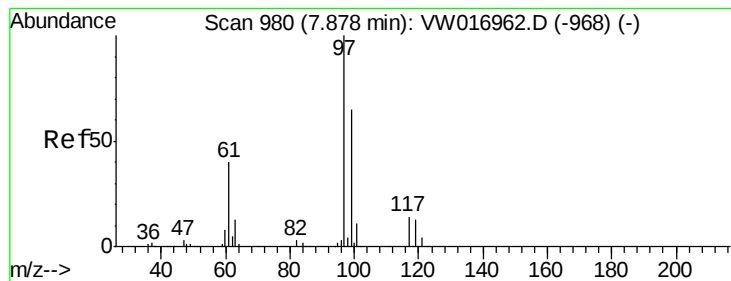
Tot Ion: 62 Resp: 18369
 Ion Ratio Lower Upper
 62 100
 98 12.1 8.5 12.7



#30
 Cyclohexane
 Concen: 2.182 ug/L
 RT: 7.96 min Scan# 993
 Delta R.T. -0.01 min
 Lab File: VW016960.D
 Acq: 22 Oct 2020 10:05

Tgt Ion: 56 Resp: 24100
 Ion Ratio Lower Upper
 56 100
 69 32.5 26.0 39.0
 84 103.8 78.6 118.0





#31

1,1,1-Trichloroethane

Concen: 2.323 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

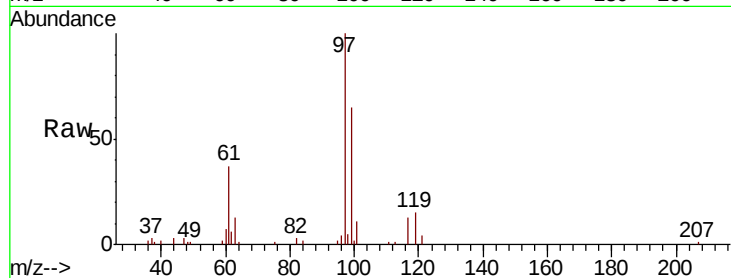
Tot Ion: 97 Resp: 26416

Ion Ratio Lower Upper

97 100

99 64.8 51.3 76.9

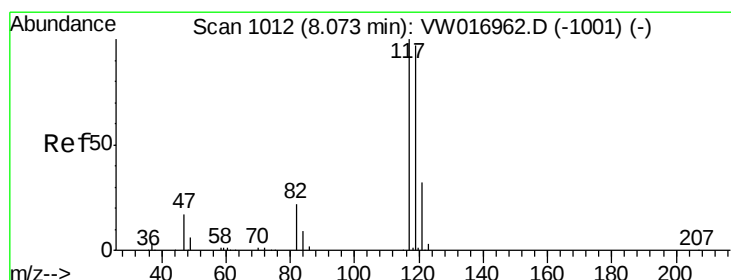
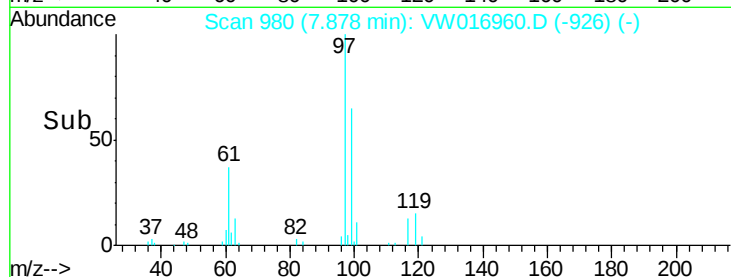
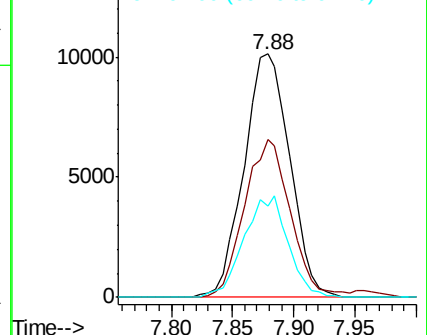
61 39.9 31.8 47.8



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 2.319 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VW016960.D

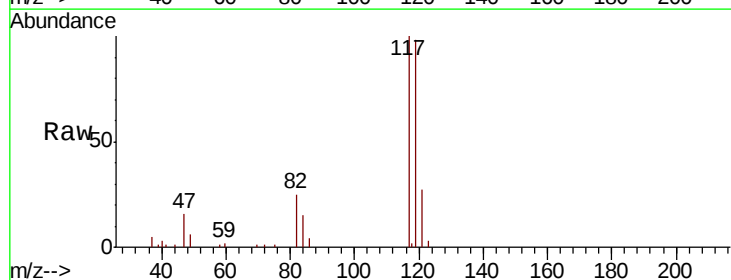
Acq: 22 Oct 2020 10:05

Tgt Ion: 117 Resp: 25467

Ion Ratio Lower Upper

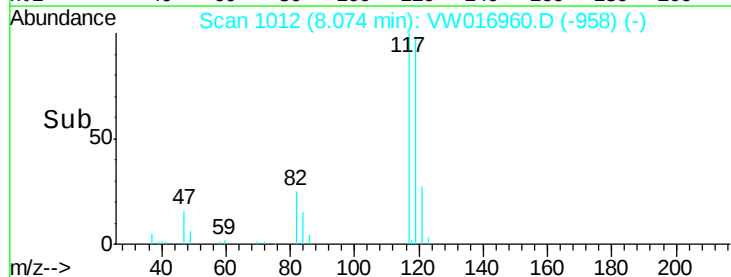
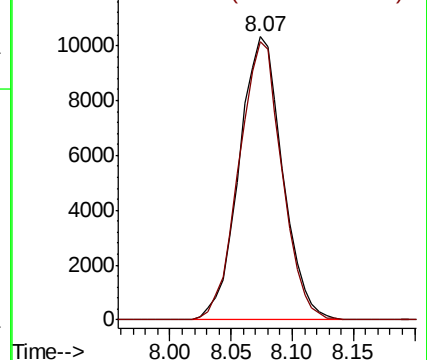
117 100

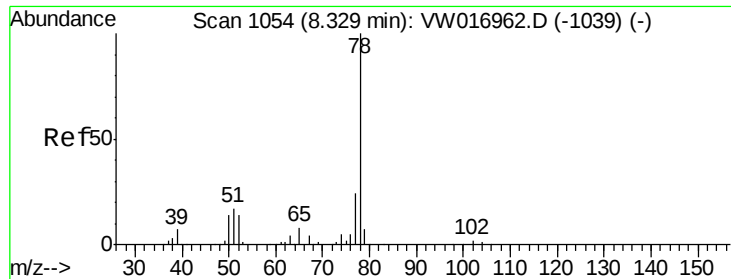
119 97.2 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 2.485 ug/L

RT: 8.33 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

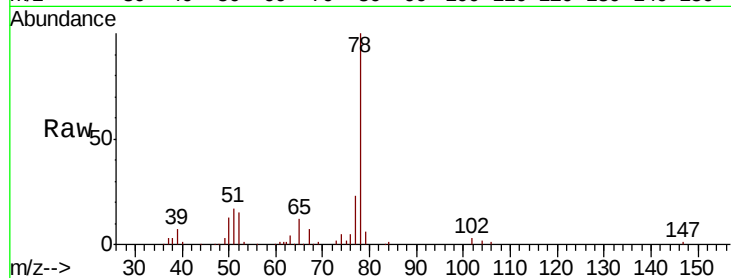
Instrument :

MSVOA_W

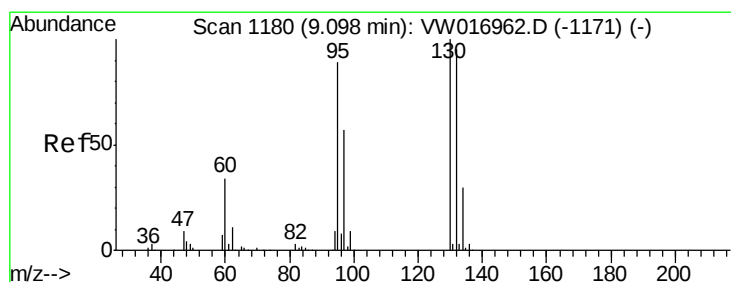
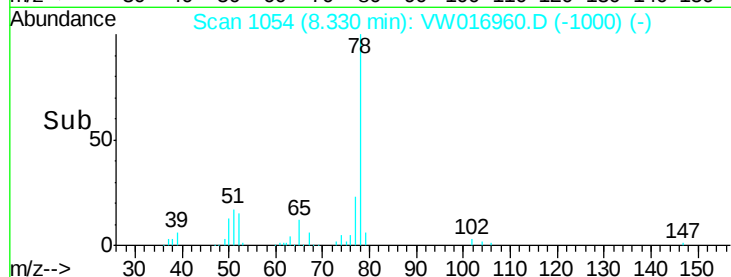
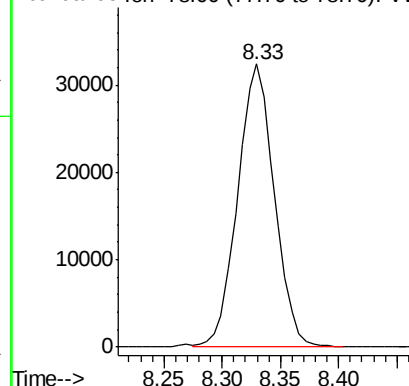
ClientSampleId :

VSTD2.503

Tgt Ion: 78 Resp: 71056



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.344 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Tgt Ion: 95 Resp: 18887

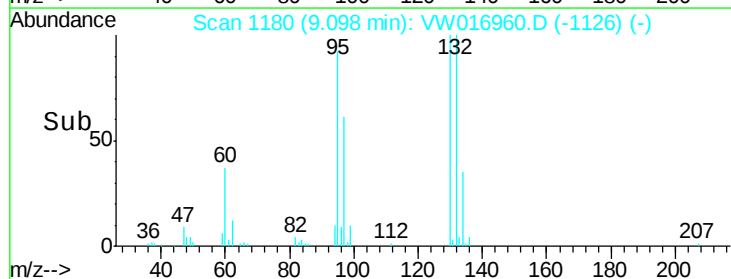
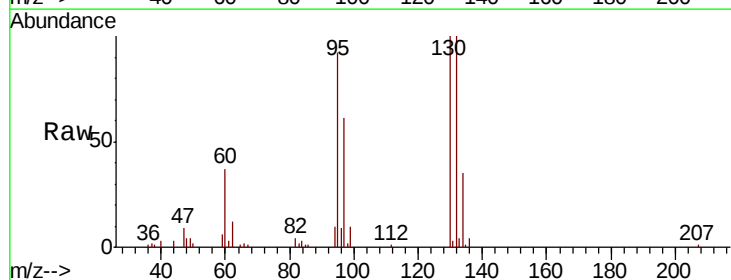
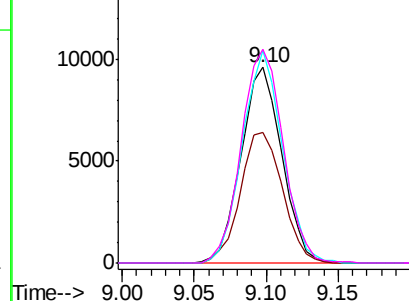
Ion	Ratio	Lower	Upper
95	100		
97	69.0	46.0	85.4
132	106.6	73.9	137.3
130	112.4	77.6	144.2

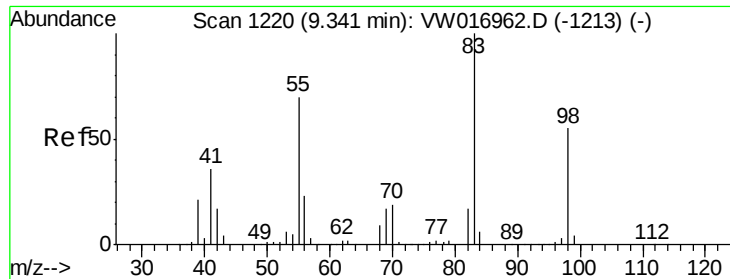
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW

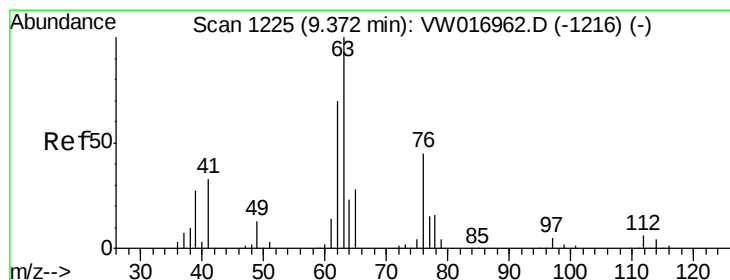
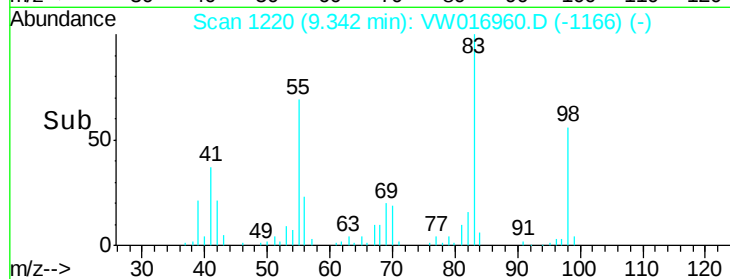
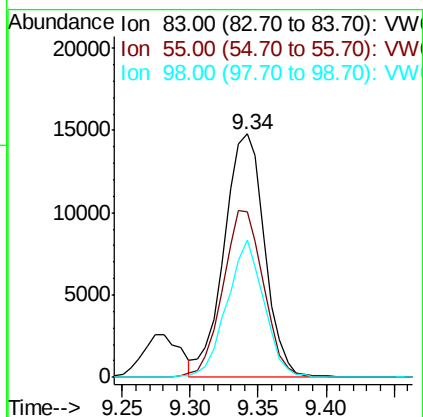
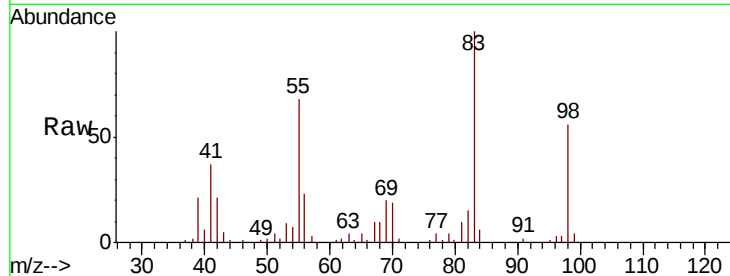




#36
Methylcyclohexane
Concen: 2.246 ug/L
RT: 9.34 min Scan# 1220
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

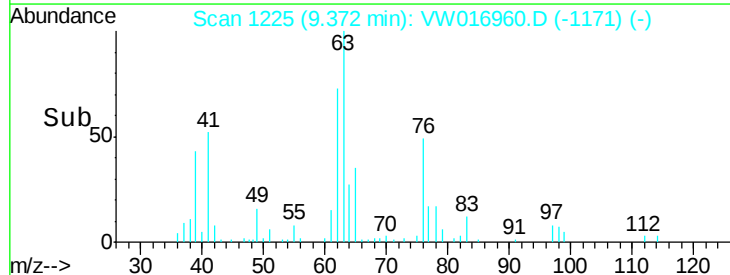
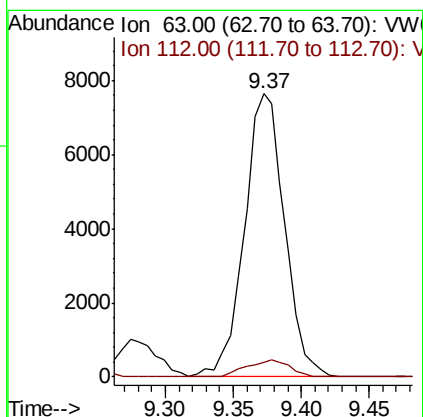
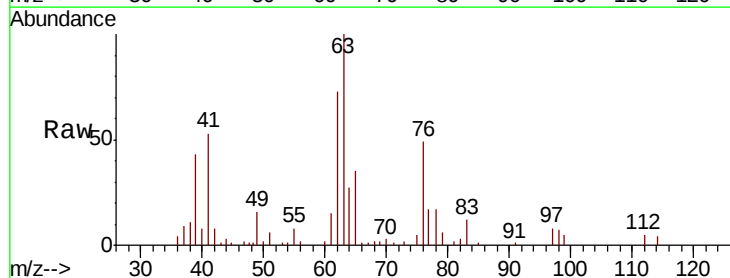
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.503

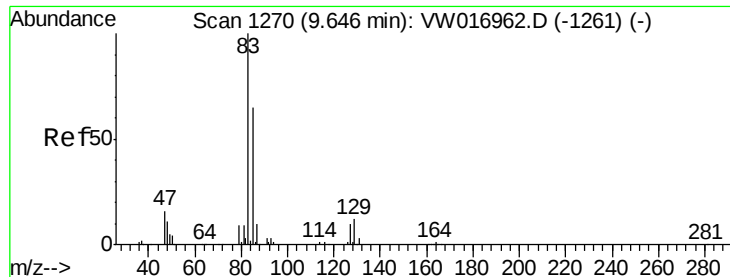
Tot Ion: 83 Resp: 30601
Ion Ratio Lower Upper
83 100
55 69.6 54.5 81.7
98 51.6 40.8 61.2



#40
1,2-Dichloropropane
Concen: 2.437 ug/L
RT: 9.37 min Scan# 1225
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

Tgt Ion: 63 Resp: 15770
Ion Ratio Lower Upper
63 100
112 6.4 4.5 6.7





#41

Bromodichloromethane

Concen: 2.218 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

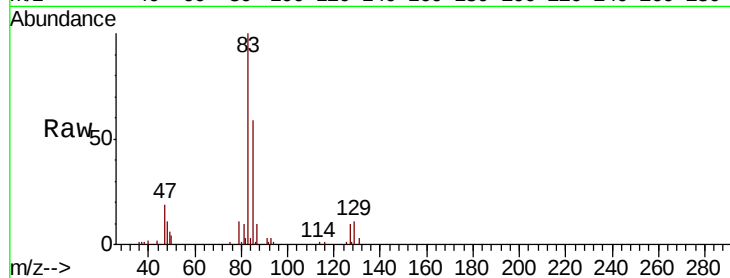
Tot Ion: 83 Resp: 20049

Ion Ratio Lower Upper

83 100

85 59.1 45.1 83.9

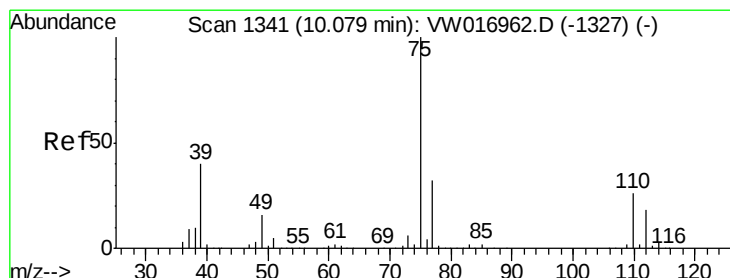
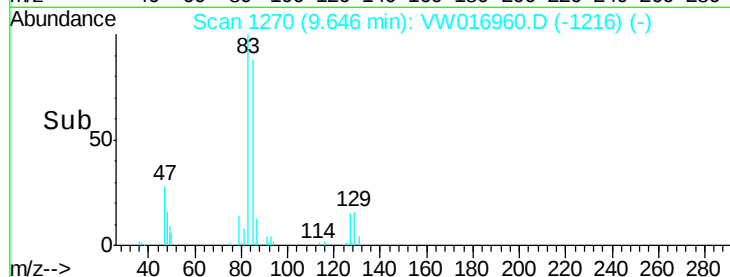
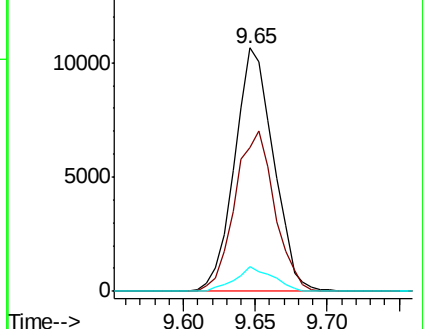
127 10.1 7.8 11.6



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): VW



#42

cis-1,3-Dichloropropene

Concen: 2.137 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VW016960.D

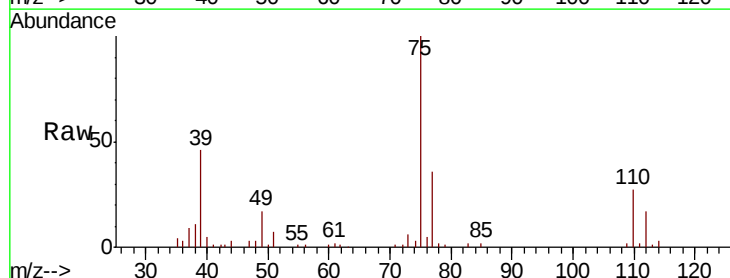
Acq: 22 Oct 2020 10:05

Tgt Ion: 75 Resp: 21938

Ion Ratio Lower Upper

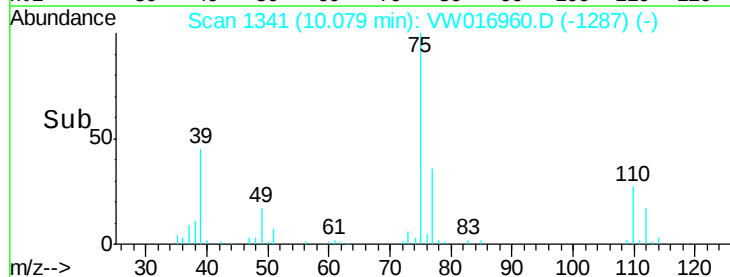
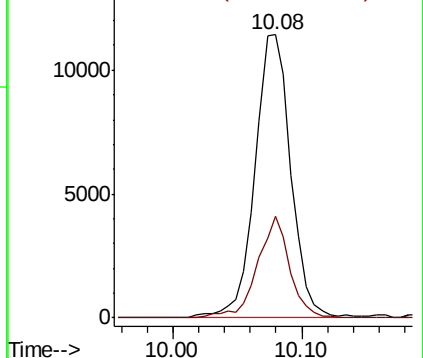
75 100

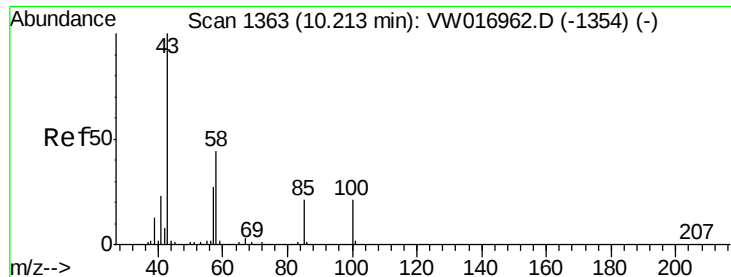
77 36.1 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

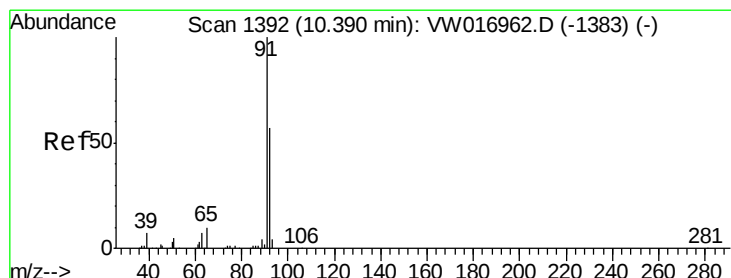
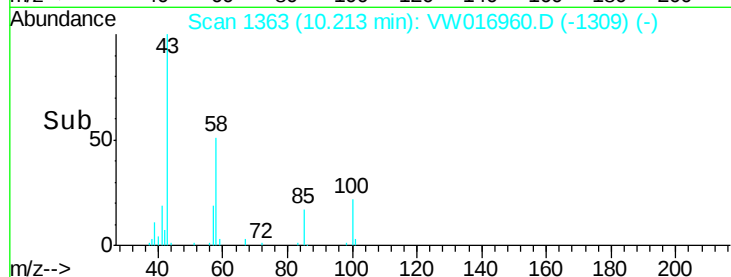
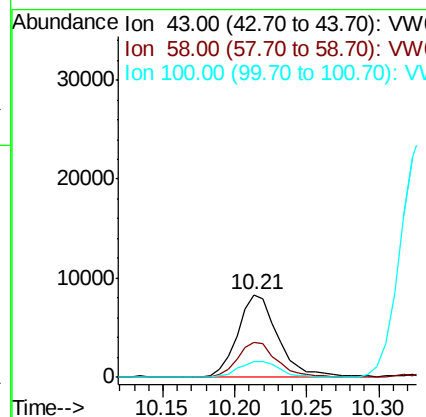
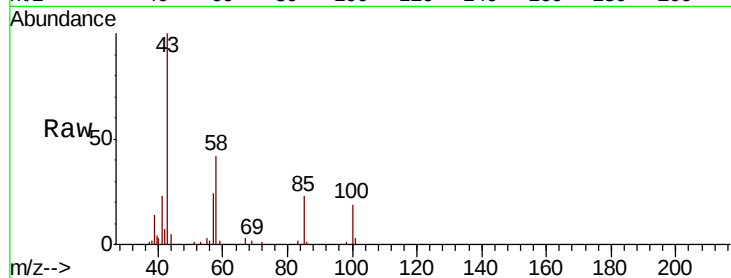




#43
4-Methyl-2-pentanone
Concen: 5.090 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

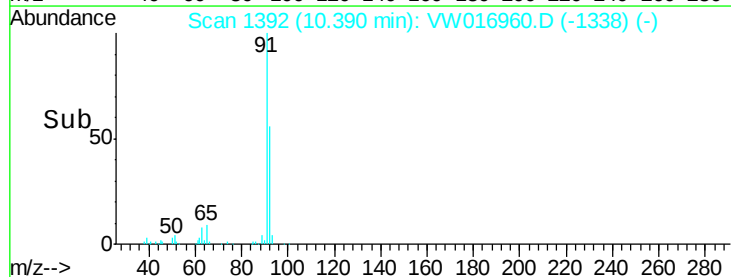
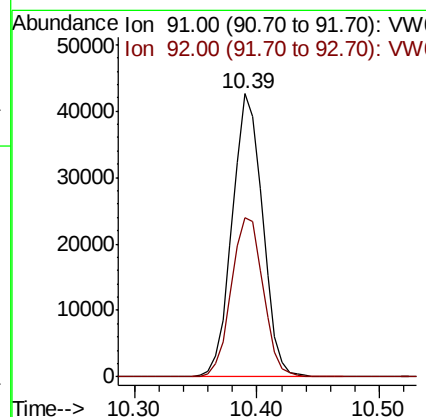
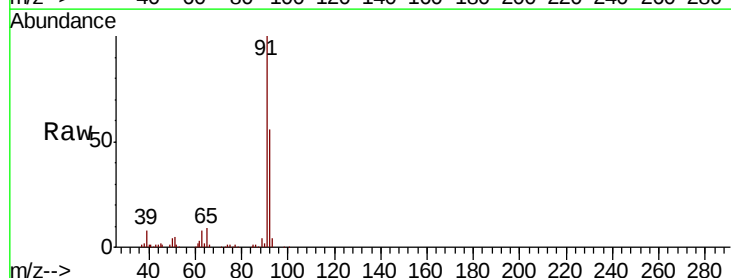
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.503

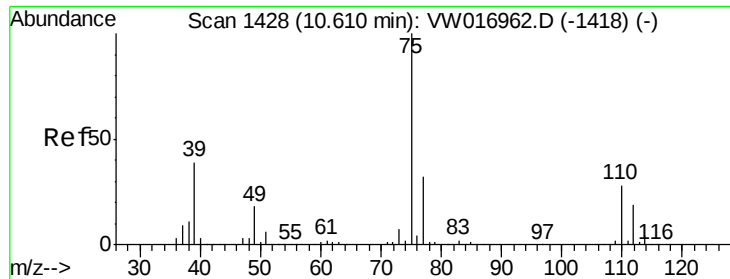
Tot Ion: 43 Resp: 16252
Ion Ratio Lower Upper
43 100
58 41.5 34.4 51.6
100 19.4 16.2 24.2



#44
Toluene
Concen: 2.308 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

Tgt Ion: 91 Resp: 73217
Ion Ratio Lower Upper
91 100
92 56.3 40.1 74.5





#45

trans-1,3-Dichloropropene

Concen: 2.063 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

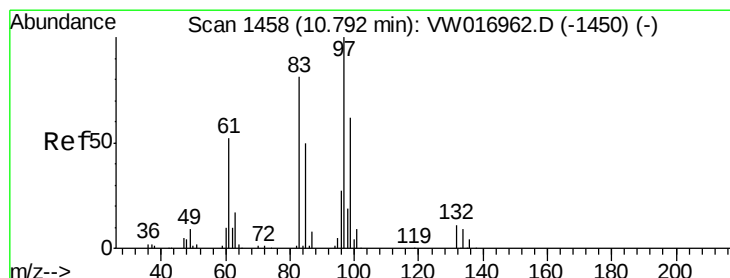
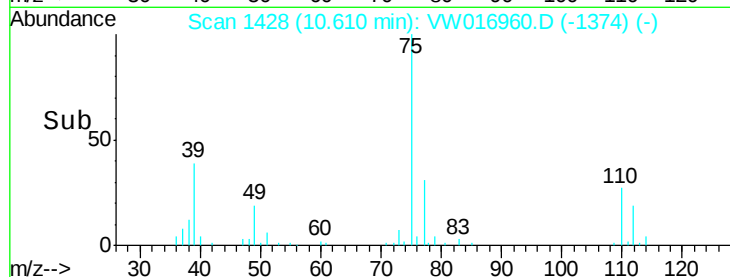
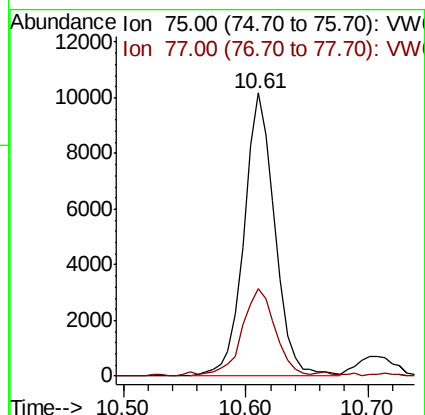
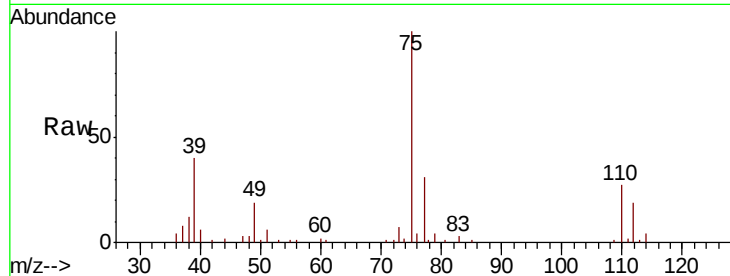
VSTD2.503

Tot Ion: 75 Resp: 17765

Ion Ratio Lower Upper

75 100

77 30.9 22.7 42.3



#46

1,1,2-Trichloroethane

Concen: 2.552 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Tgt Ion: 97 Resp: 13343

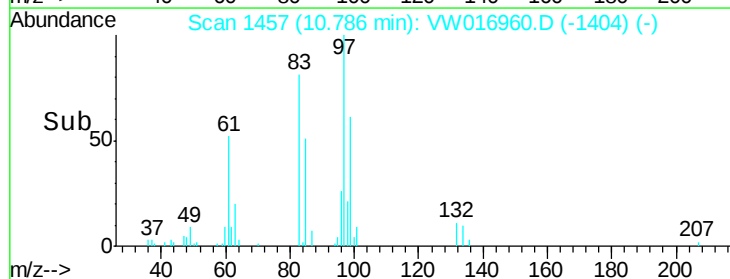
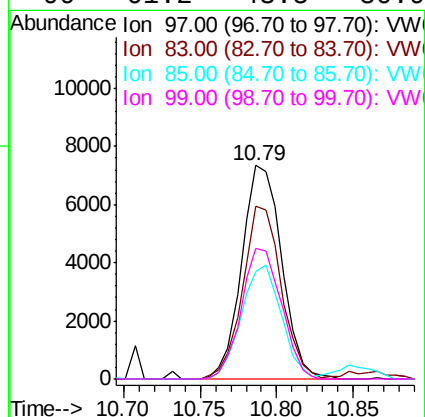
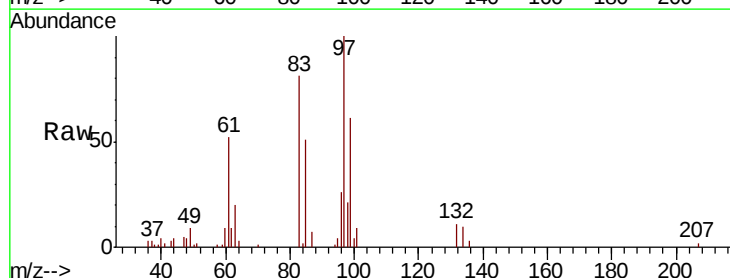
Ion Ratio Lower Upper

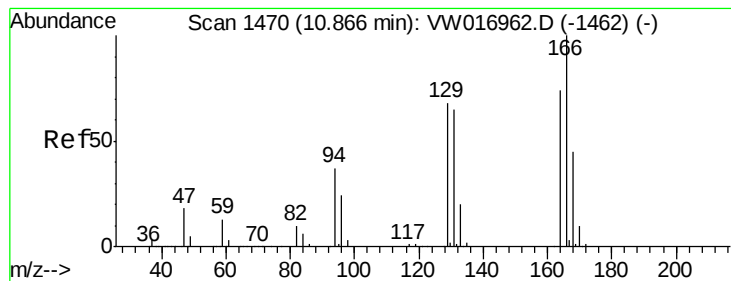
97 100

83 80.7 56.6 105.0

85 50.6 34.6 64.3

99 61.2 43.5 80.9





#47

Tetrachloroethene

Concen: 2.422 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

Tot Ion:164 Resp: 18108

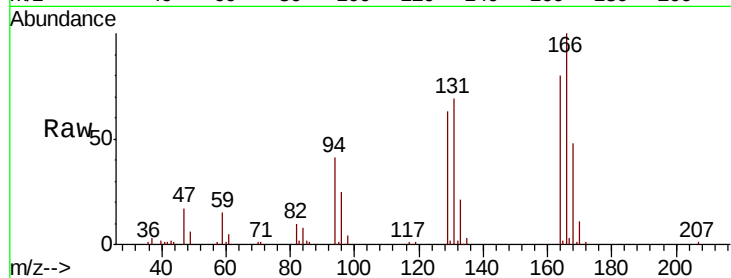
Ion Ratio Lower Upper

164 100

129 78.3 64.0 119.0

131 86.5 61.7 114.5

166 125.3 94.6 175.8

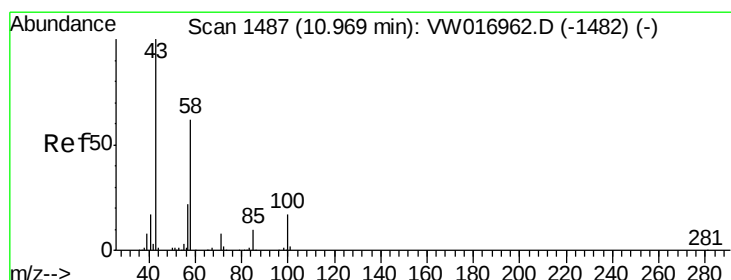
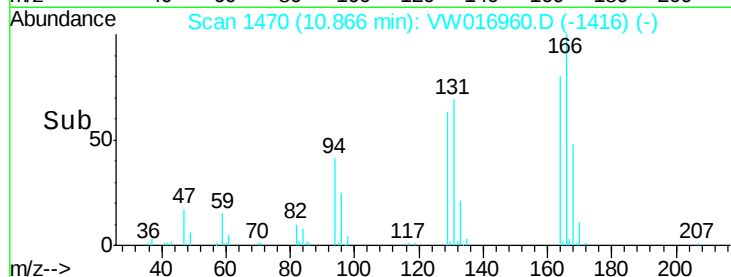
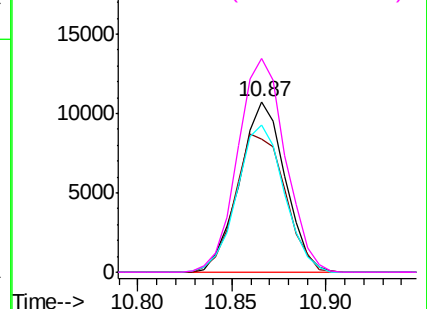


Abundance Ion 164.00 (163.70 to 164.70): V

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: 4.477 ug/L

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Tgt Ion: 43 Resp: 9383

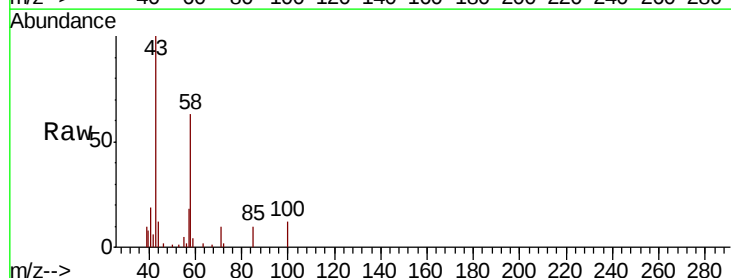
Ion Ratio Lower Upper

43 100

58 59.2 49.2 73.8

57 18.7 17.0 25.4

100 14.2 13.2 19.8

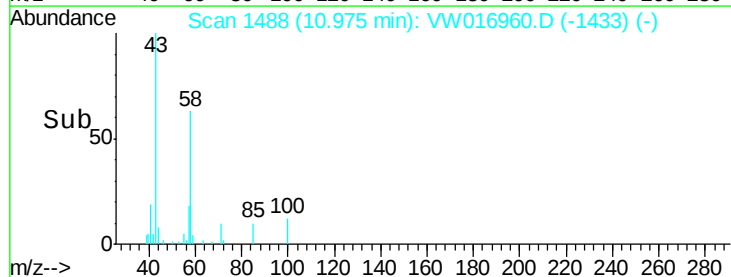
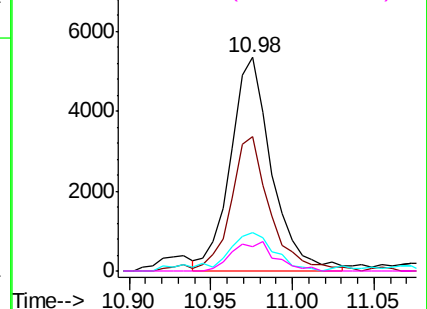


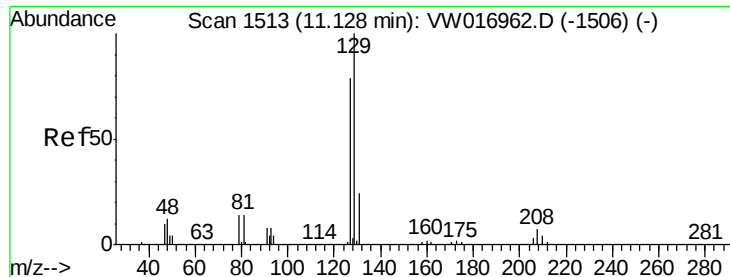
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW

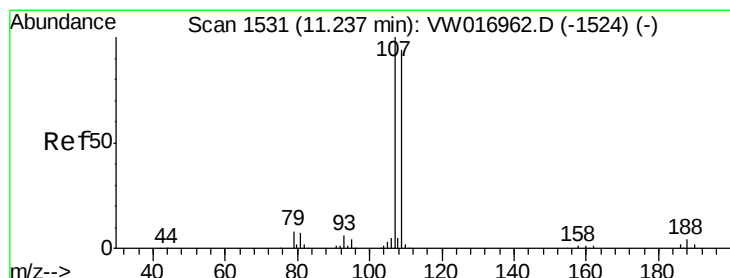
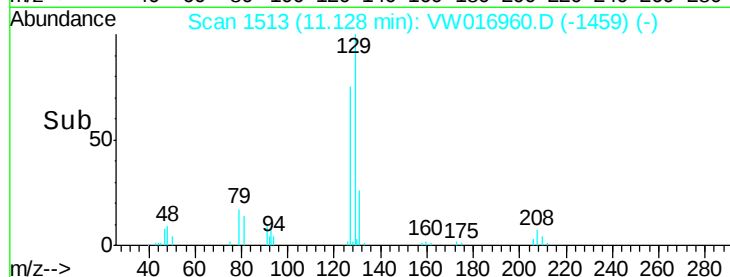
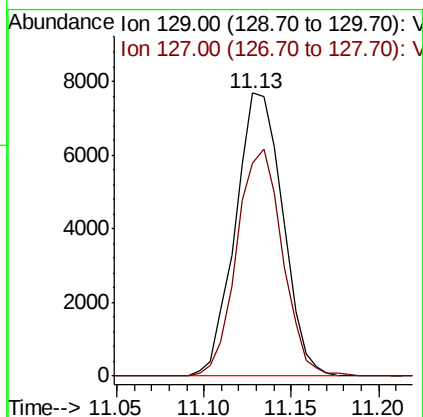
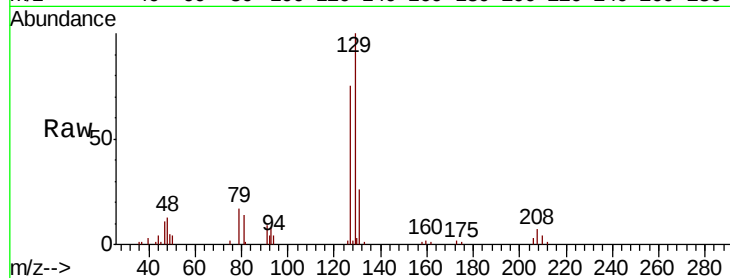




#50
Dibromochloromethane
Concen: 2.244 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

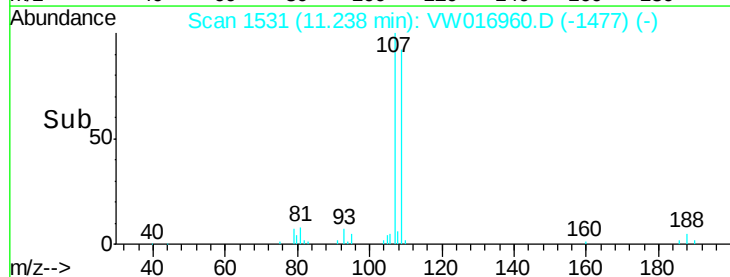
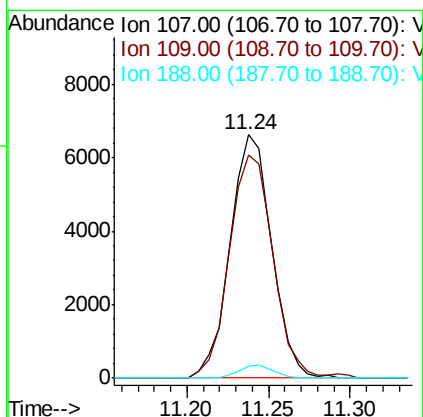
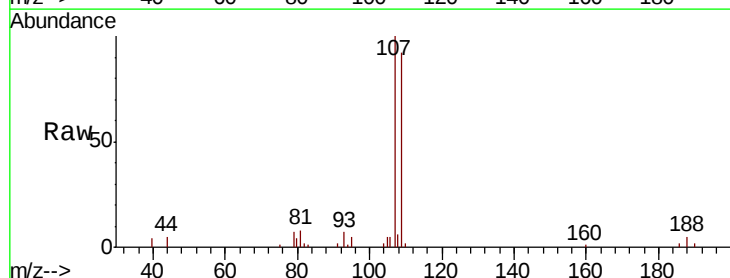
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.503

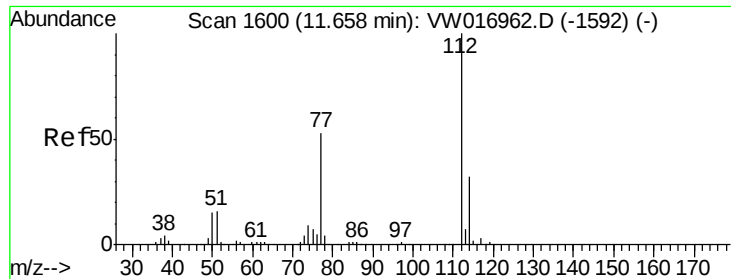
Tot Ion:129 Resp: 14506
Ion Ratio Lower Upper
129 100
127 75.1 55.4 102.8



#51
1,2-Dibromoethane
Concen: 2.310 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

Tgt Ion:107 Resp: 11758
Ion Ratio Lower Upper
107 100
109 91.6 65.7 121.9
188 4.8 3.1 4.7#





#52

Chlorobenzene

Concen: 2.416 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

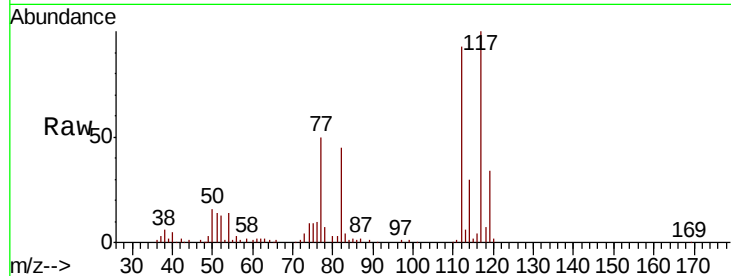
Tot Ion:112 Resp: 51235

Ion Ratio Lower Upper

112 100

77 54.0 42.5 63.7

114 32.6 22.3 41.3



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V

11.66

30000

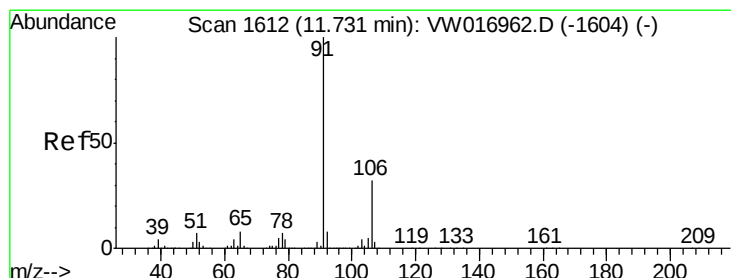
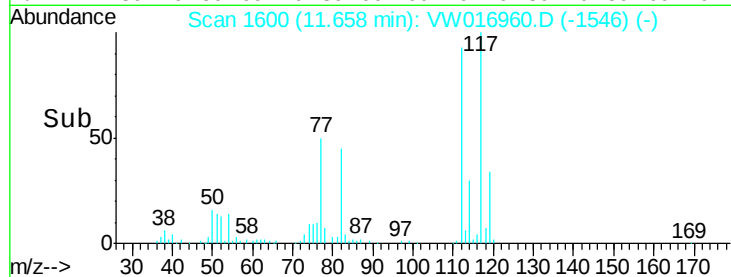
20000

10000

0

Time-->

11.60 11.65 11.70



#53

Ethylbenzene

Concen: 2.262 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW016960.D

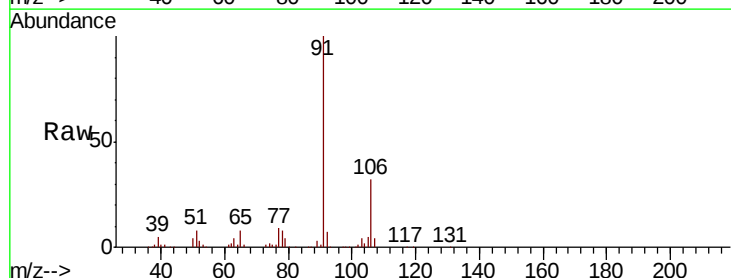
Acq: 22 Oct 2020 10:05

Tgt Ion: 91 Resp: 80667

Ion Ratio Lower Upper

91 100

106 32.2 22.5 41.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

11.73

50000

40000

30000

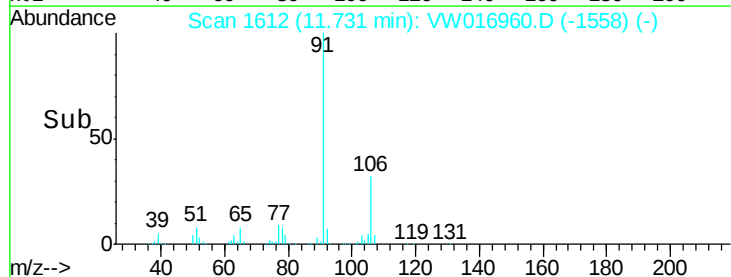
20000

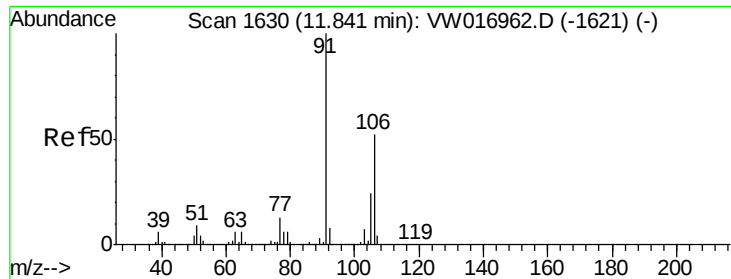
10000

0

Time-->

11.65 11.70 11.75 11.80





#54

m,p-Xylene

Concen: 2.269 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

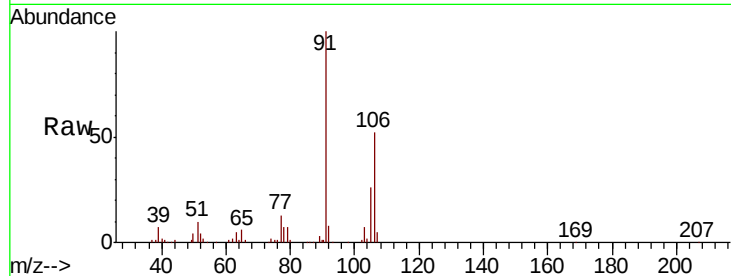
VSTD2.503

Tot Ion:106 Resp: 31450

Ion Ratio Lower Upper

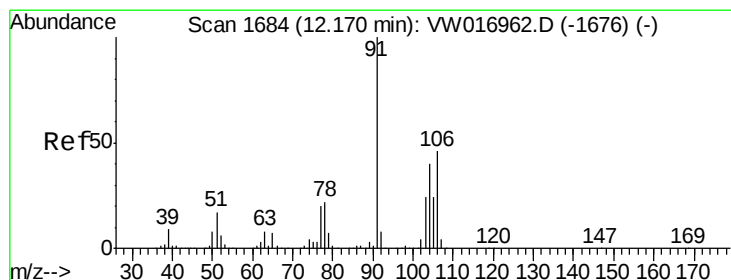
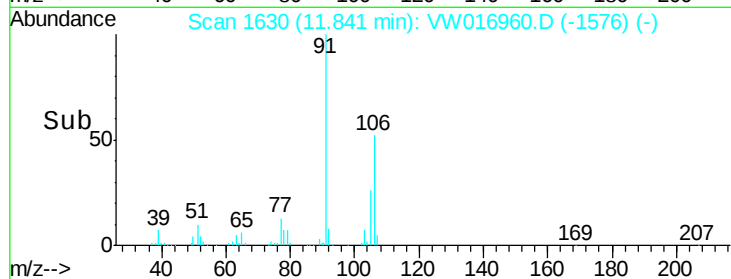
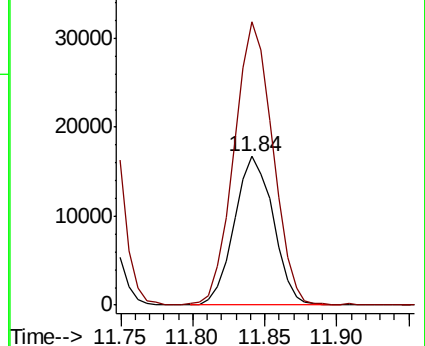
106 100

91 190.8 134.2 249.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 2.151 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW016960.D

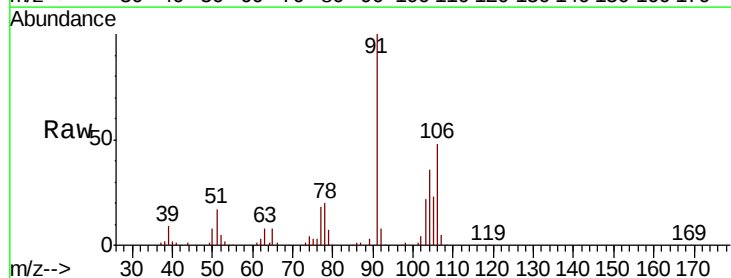
Acq: 22 Oct 2020 10:05

Tgt Ion:106 Resp: 28184

Ion Ratio Lower Upper

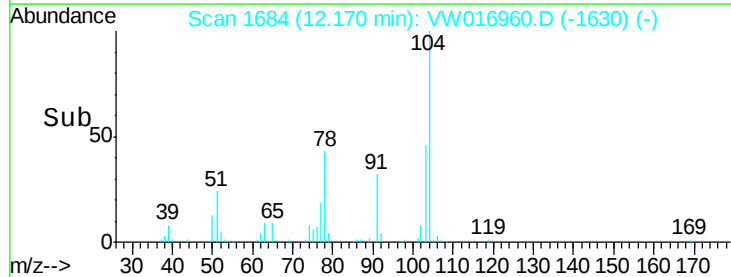
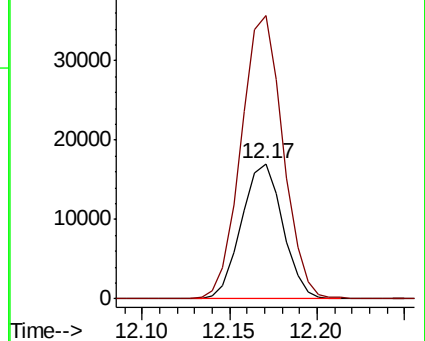
106 100

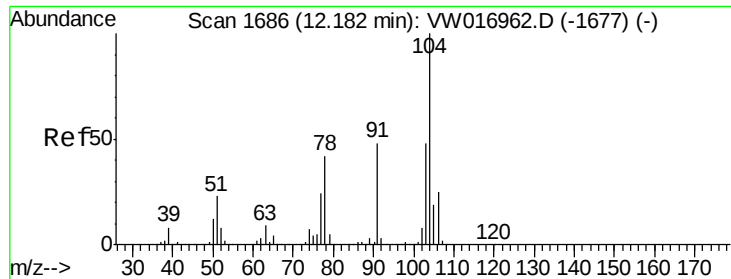
91 209.2 150.9 280.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 2.088 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

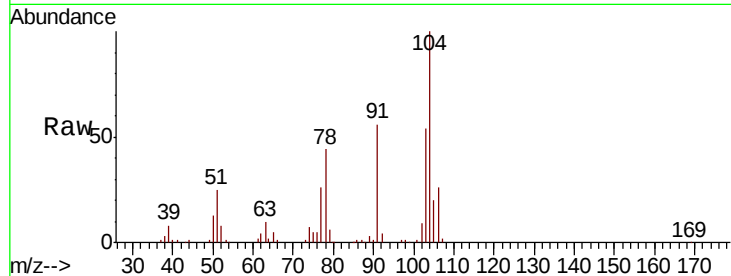
VSTD2.503

Tot Ion:104 Resp: 45561

Ion Ratio Lower Upper

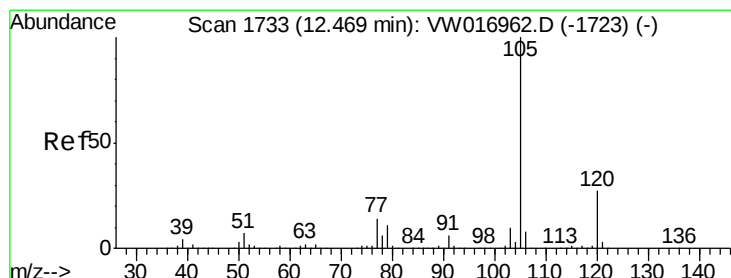
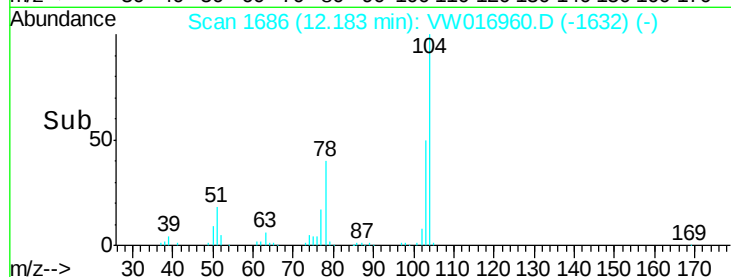
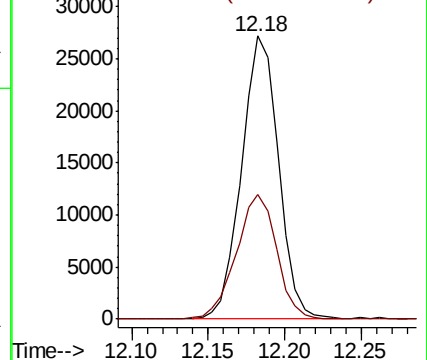
104 100

78 44.2 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V



#57

Isopropylbenzene

Concen: 2.175 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

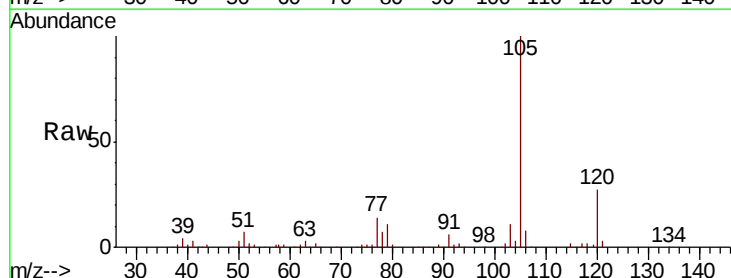
Tgt Ion:105 Resp: 78600

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

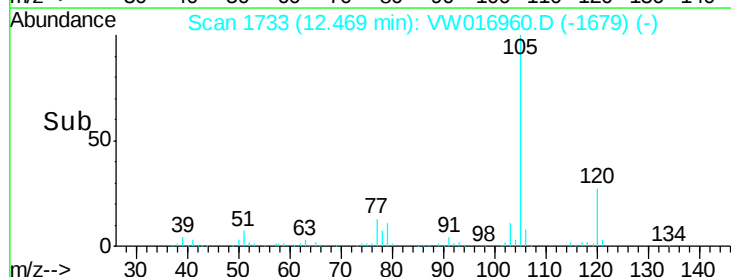
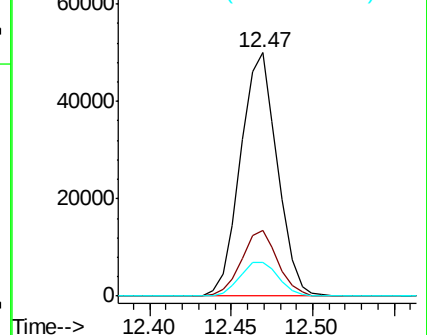
77 14.6 11.4 17.2

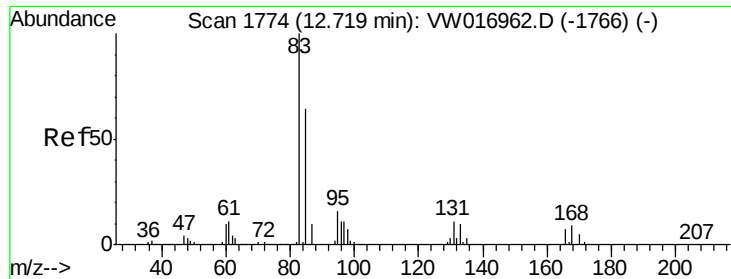


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 2.430 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

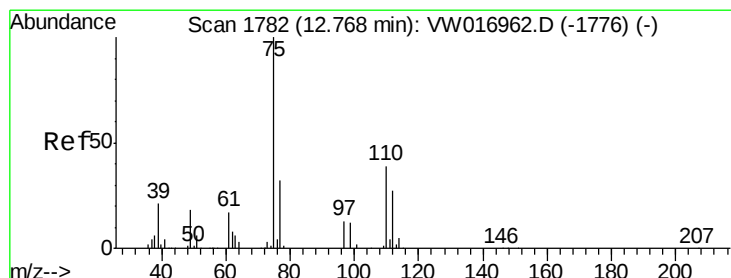
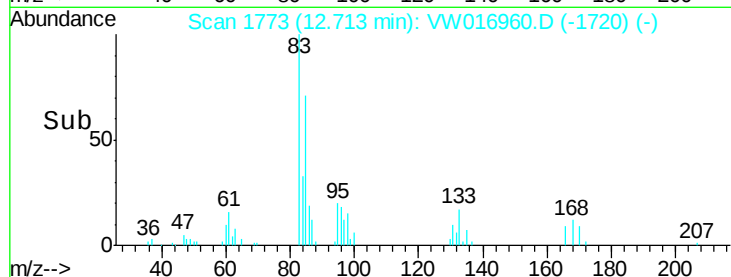
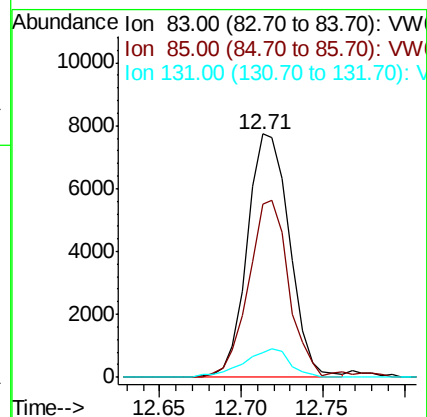
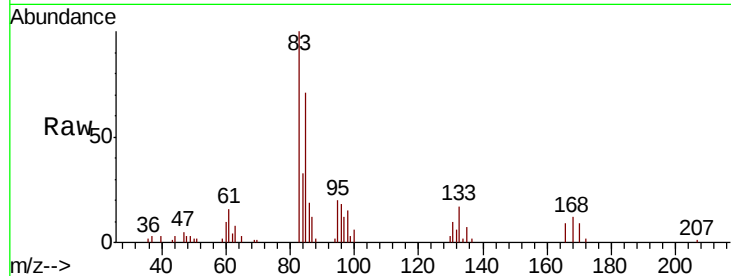
Tot Ion: 83 Resp: 13903

Ion Ratio Lower Upper

83 100

85 71.0 45.1 83.7

131 10.3 9.1 13.7



#59

1,2,3-Trichloropropane

Concen: 2.500 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW016960.D

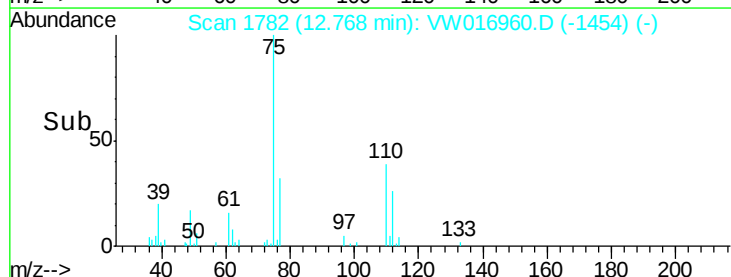
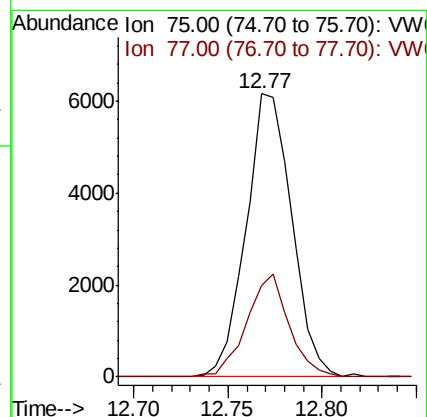
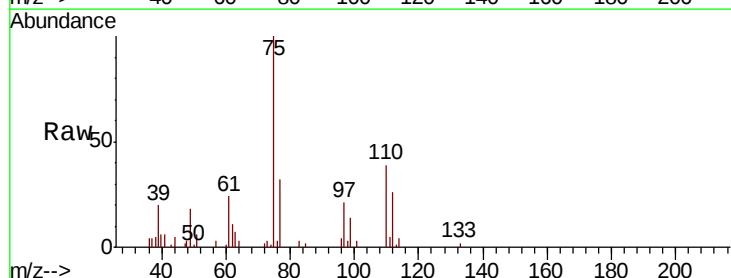
Acq: 22 Oct 2020 10:05

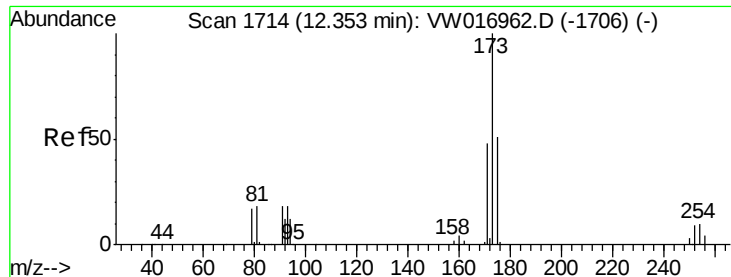
Tgt Ion: 75 Resp: 10357

Ion Ratio Lower Upper

75 100

77 33.5 25.8 38.8





#62

Bromoform

Concen: 2.292 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

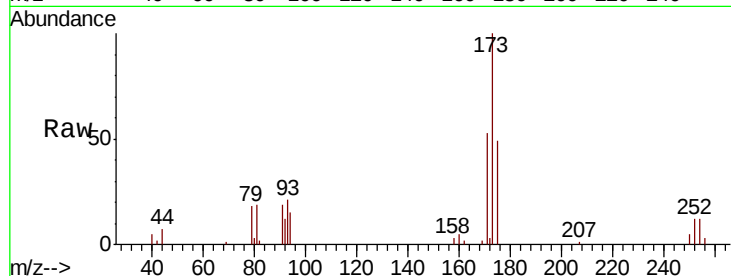
Tot Ion:173 Resp: 8196

Ion Ratio Lower Upper

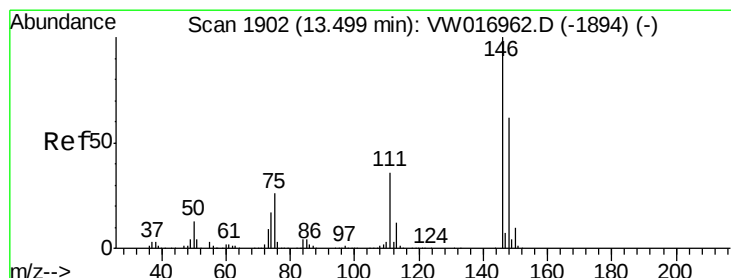
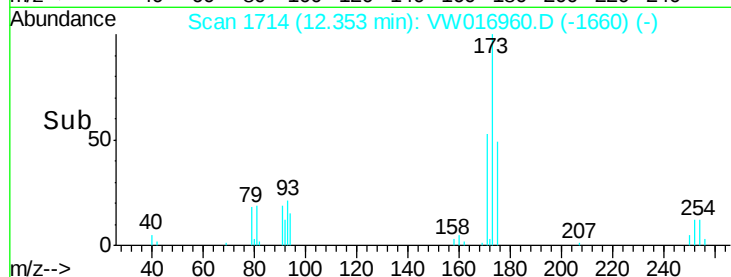
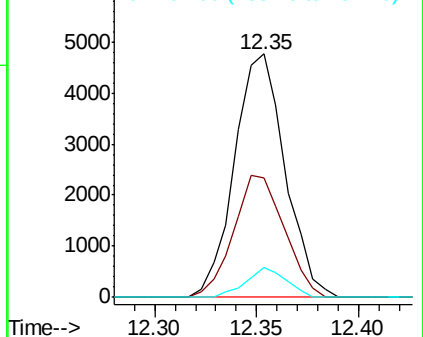
173 100

175 50.3 38.3 57.5

254 9.8 7.8 11.6



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 2.384 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

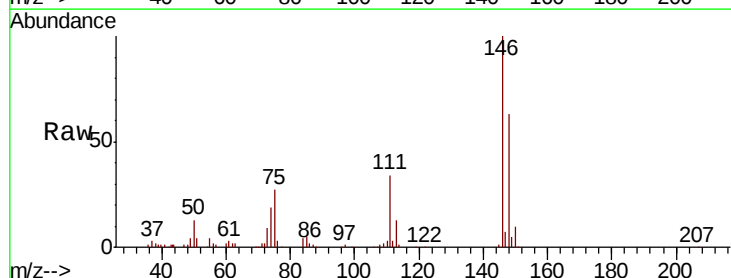
Tgt Ion:146 Resp: 38700

Ion Ratio Lower Upper

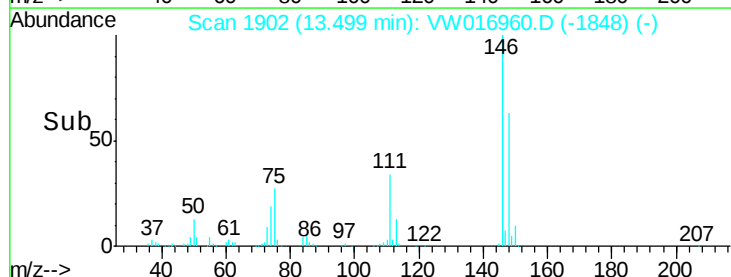
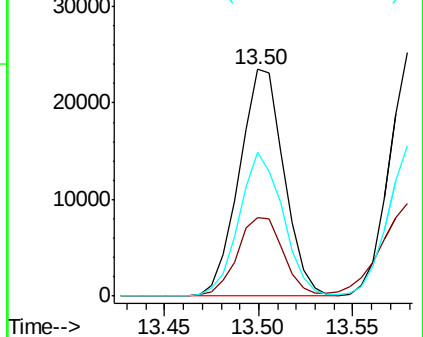
146 100

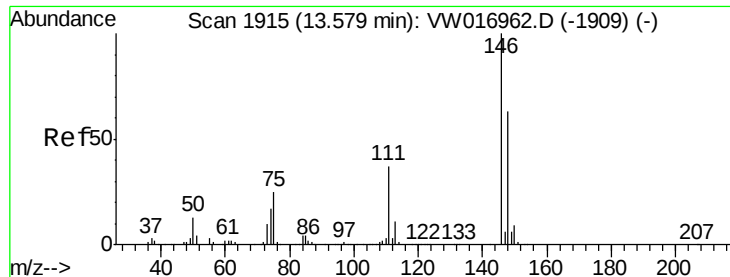
111 34.5 25.5 47.3

148 63.4 43.1 80.1



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

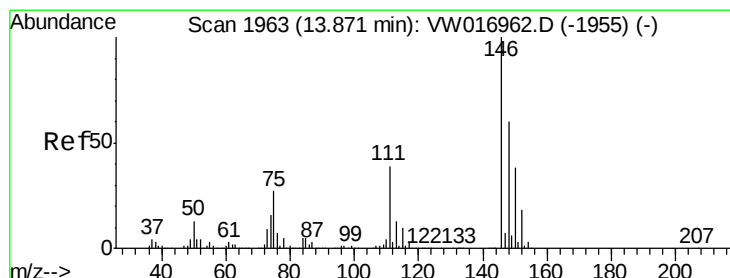
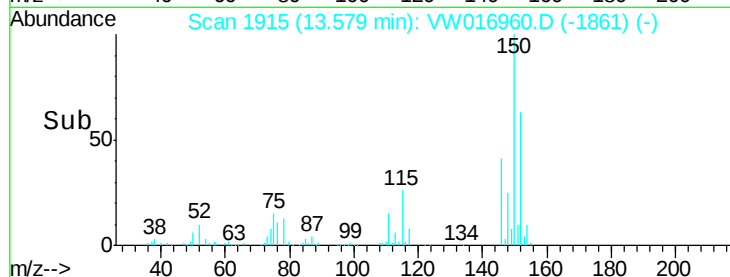
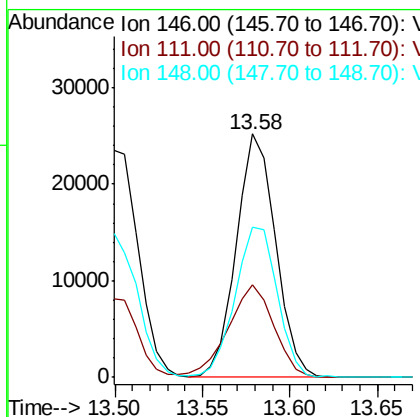
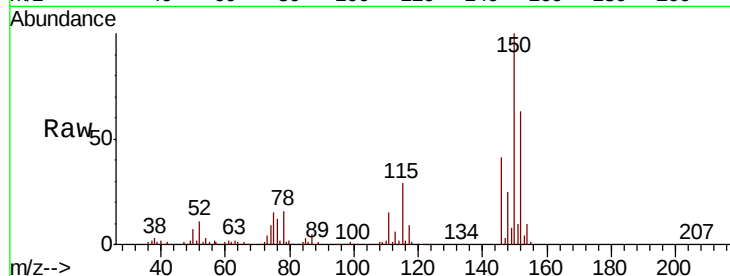




#64
1,4-Dichlorobenzene
Concen: 2.429 ug/L
RT: 13.58 min Scan# 1915
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

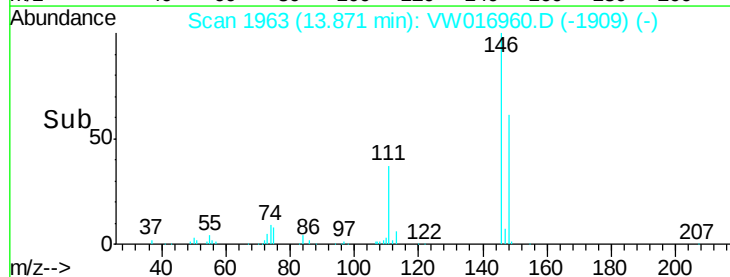
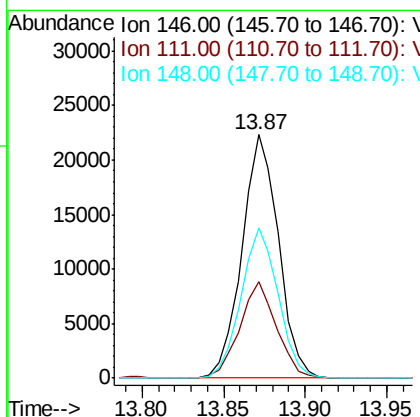
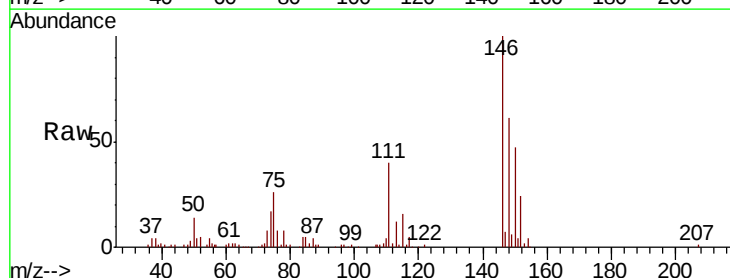
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.503

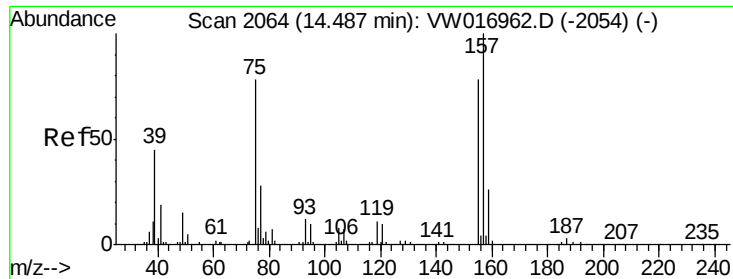
Tot Ion:146 Resp: 39526
Ion Ratio Lower Upper
146 100
111 37.9 25.7 47.7
148 61.4 44.3 82.3



#65
1,2-Dichlorobenzene
Concen: 2.396 ug/L
RT: 13.87 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VW016960.D
Acq: 22 Oct 2020 10:05

Tgt Ion:146 Resp: 34796
Ion Ratio Lower Upper
146 100
111 39.6 31.4 47.0
148 61.5 47.7 71.5





#66

1,2-Dibromo-3-chloropropane

Concen: 2.114 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.503

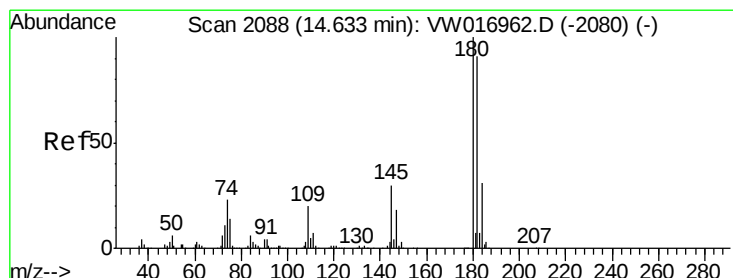
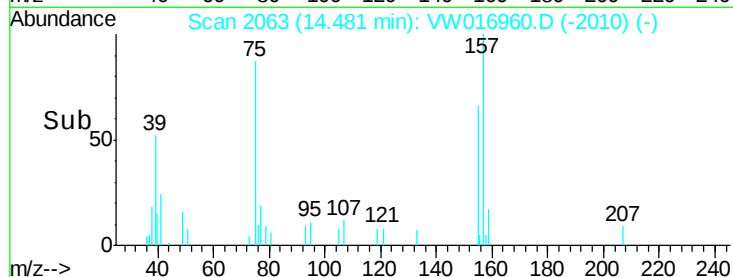
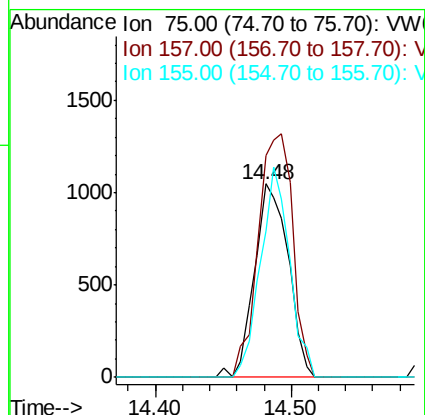
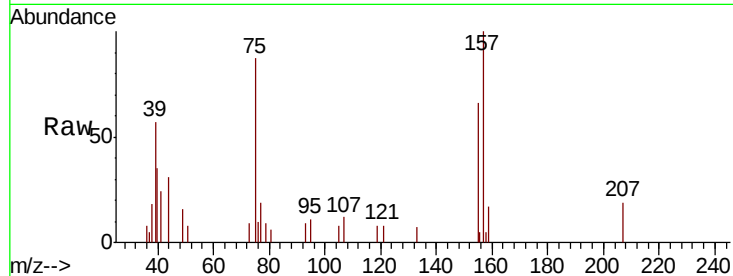
Tot Ion: 75 Resp: 1819

Ion Ratio Lower Upper

75 100

157 114.9 102.5 153.7

155 81.3 80.3 120.5



#67

1,3,5-Trichlorobenzene

Concen: 2.276 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. -0.01 min

Lab File: VW016960.D

Acq: 22 Oct 2020 10:05

Tgt Ion:180 Resp: 27447

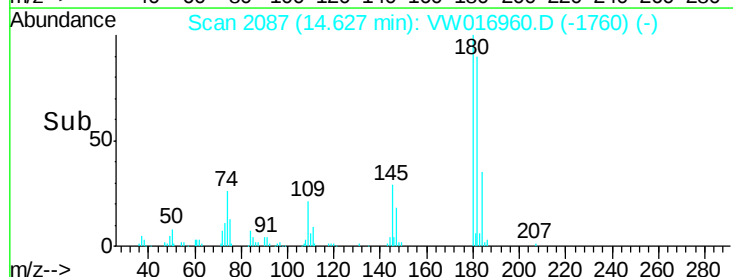
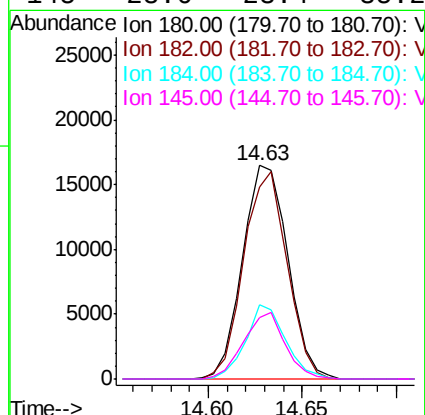
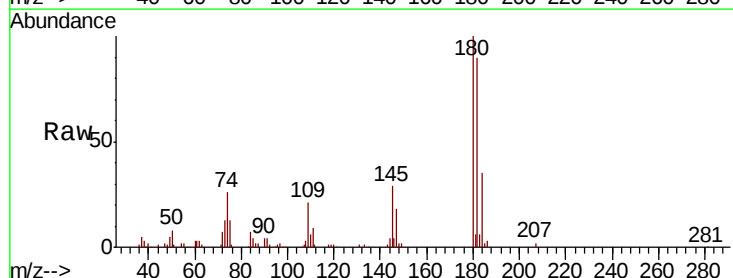
Ion Ratio Lower Upper

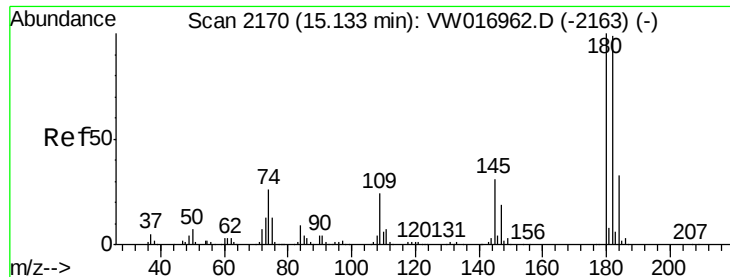
180 100

182 93.3 77.4 116.0

184 30.7 24.8 37.2

145 28.6 23.4 35.2

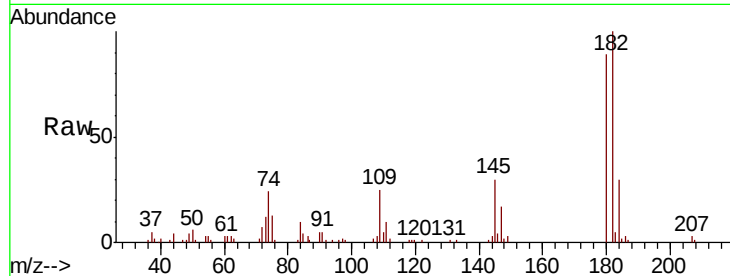




#68
 1,2,4-trichlorobenzene
 Concen: 1.933 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016960.D
 Acq: 22 Oct 2020 10:05

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.503

Tot Ion	180	182	145
Resp:	18969		
Ion Ratio	100	98.2	30.7
Lower		76.6	23.4
Upper		114.8	35.0

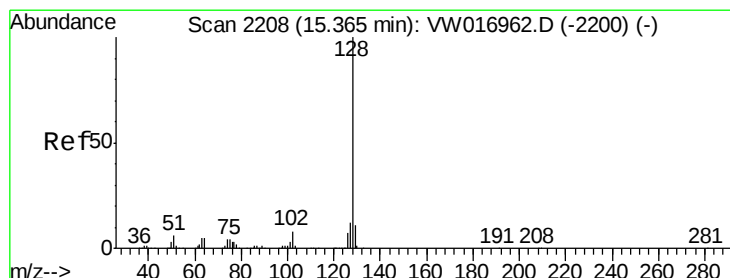
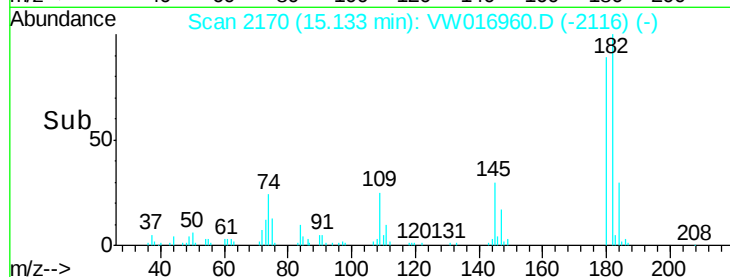
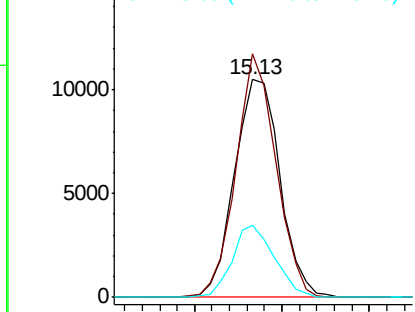


Abundance

Ion 180.00 (179.70 to 180.70): V

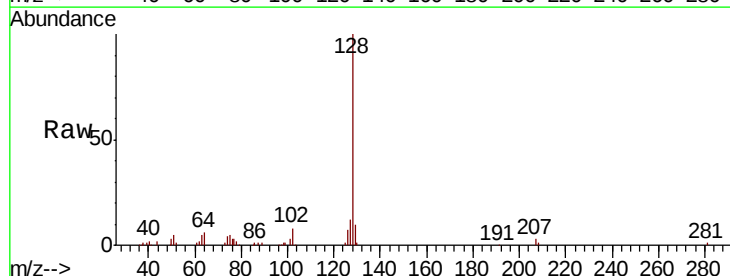
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69
 Naphthalene
 Concen: 1.733 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.01 min
 Lab File: VW016960.D
 Acq: 22 Oct 2020 10:05

Tgt Ion	128	129	127
Resp:	27810		
Ion Ratio	100	11.2	14.0
Lower		8.6	10.0
Upper		12.8	15.0

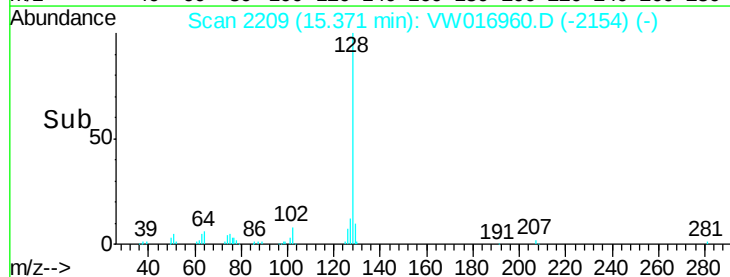
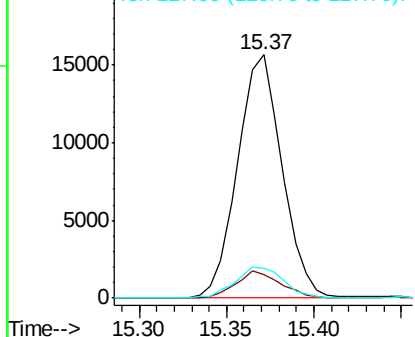


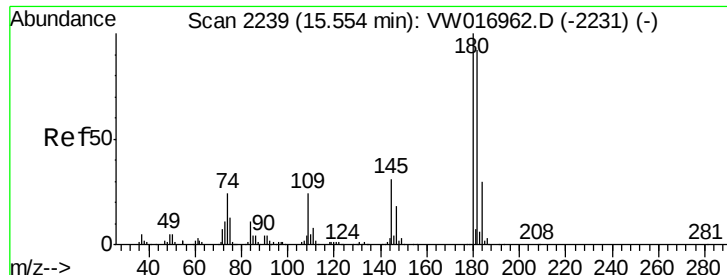
Abundance

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

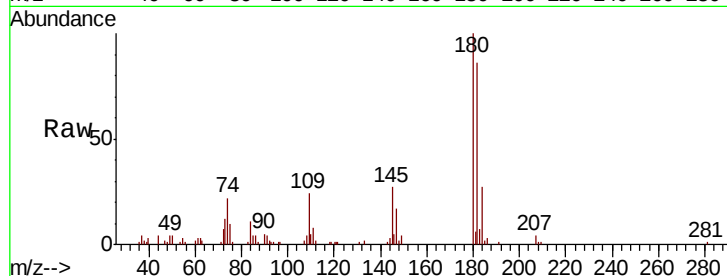




#70
 1,2,3-Trichlorobenzene
 Concen: 2.065 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW016960.D
 Acq: 22 Oct 2020 10:05

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.503

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.6	76.8	115.2
145	32.1	25.4	38.2



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

