

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031220\
 Data File : VW015120.D
 Acq On : 12 Mar 2020 15:49
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

Quant Time: Mar 13 02:14:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022420S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 13 02:12:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	706046	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	639046	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	277666	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	256812	14.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	58.16%
7) Chloroethane-d5	2.89	69	219933	17.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.12%
10) 1,1-Dichloroethene-d2	4.02	63	550198	20.02	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.08%
20) 2-Butanone-d5	7.07	46	141064	47.79	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.58%
24) Chloroform-d	7.64	84	493405	21.27	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	85.08%
26) 1,2-Dichloroethane-d4	8.30	65	276047	21.27	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	85.08%
29) Benzene-d6	8.27	84	959900	21.86	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.44%
33) 1,2-Dichloropropane-d6	9.27	67	318520	21.67	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	86.68%
37) Toluene-d8	10.32	98	828250	22.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.44%
38) trans-1,3-Dichloropropene-	10.57	79	118868	21.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.48%
39) 2-Hexanone-d5	10.92	63	102011	52.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.82%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	221978	23.37	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.48%
61) 1,2-Dichlorobenzene-d4	13.85	152	219251	21.55	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	133337	22.132	ug/L	100
3) Chloromethane	2.21	50	229097	16.589	ug/L	100
5) Vinyl chloride	2.36	62	338892	18.966	ug/L	99
6) Bromomethane	2.78	94	166327	20.735	ug/L	99
8) Chloroethane	2.92	64	201253	20.699	ug/L	100
9) Trichlorofluoromethane	3.26	101	184398	22.899	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	258670	23.322	ug/L	98
12) 1,1-Dichloroethene	4.04	96	243117	23.024	ug/L	92
13) Acetone	4.12	43	156185	44.733	ug/L	98
14) Carbon disulfide	4.38	76	815211	20.631	ug/L	99
15) Methyl Acetate	4.67	43	136294	23.183	ug/L	99
16) Methylene chloride	4.91	84	288910	22.107	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	317222	24.819	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	253642	23.250	ug/L	97
19) 1,1-Dichloroethane	6.21	63	564230	23.189	ug/L	98
21) 2-Butanone	7.16	43	196920	47.963	ug/L	98
22) cis-1,2-Dichloroethene	7.16	96	268172	24.155	ug/L	95

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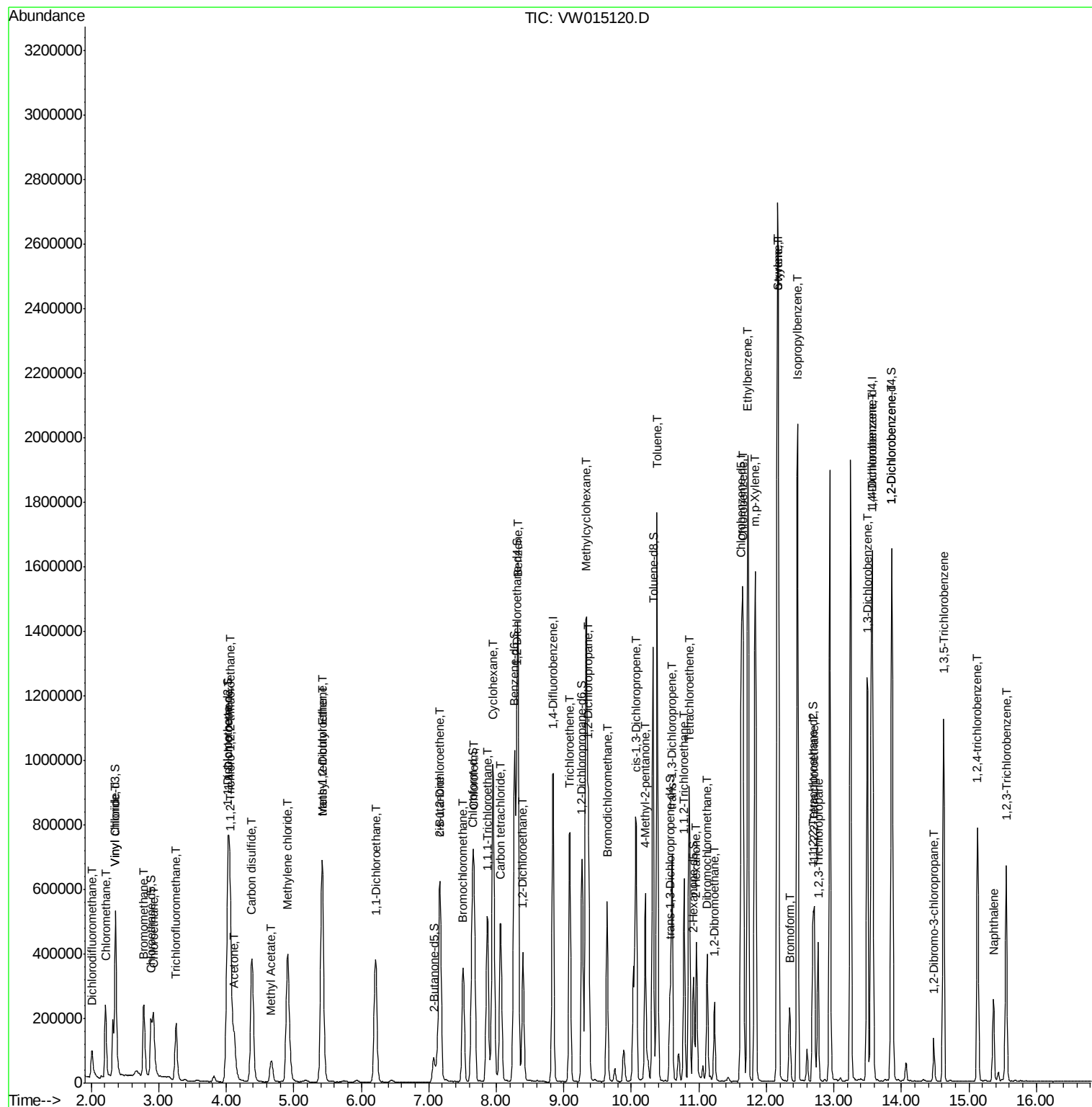
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	101292	23.453	ug/L	91
25) Chloroform	7.67	83	508288	23.019	ug/L	99
27) 1,2-Dichloroethane	8.40	62	361004	23.894	ug/L	98
30) Cyclohexane	7.95	56	543981	25.460	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	391420	23.750	ug/L	98
32) Carbon tetrachloride	8.07	117	346620	23.470	ug/L	99
34) Benzene	8.32	78	1171914	24.653	ug/L	100
35) Trichloroethene	9.09	95	275403	23.950	ug/L	99
36) Methylcyclohexane	9.34	83	511393	25.899	ug/L	97
40) 1,2-Dichloropropane	9.37	63	316888	24.002	ug/L	100
41) Bromodichloromethane	9.64	83	358667	24.218	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	440520	25.605	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	407185	55.141	ug/L	100
44) Toluene	10.38	91	1182616	25.616	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	350247	25.188	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	181128	24.379	ug/L	99
47) Tetrachloroethene	10.86	164	171667	23.163	ug/L	97
49) 2-Hexanone	10.96	43	293725	54.865	ug/L	99
50) Dibromochloromethane	11.13	129	190803	24.131	ug/L	97
51) 1,2-Dibromoethane	11.23	107	158937	24.546	ug/L	95
52) Chlorobenzene	11.65	112	651695	23.999	ug/L	99
53) Ethylbenzene	11.73	91	1291686	25.611	ug/L	100
54) m,p-Xylene	11.83	106	453706	25.712	ug/L	99
55) o-xylene	12.16	106	420801	25.594	ug/L	96
56) Styrene	12.18	104	736662	26.159	ug/L	98
57) Isopropylbenzene	12.46	105	1175839	26.260	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	231122	24.655	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	172923	24.000	ug/L	100
62) Bromoform	12.35	173	92159	23.613	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	438583	24.212	ug/L	100
64) 1,4-Dichlorobenzene	13.58	146	444695	23.844	ug/L	98
65) 1,2-Dichlorobenzene	13.86	146	398829	24.311	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	33767	23.315	ug/L	97
67) 1,3,5-Trichlorobenzene	14.63	180	283305	23.323	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	211557	23.830	ug/L	99
69) Naphthalene	15.36	128	192885	24.474	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	186444	23.398	ug/L	98

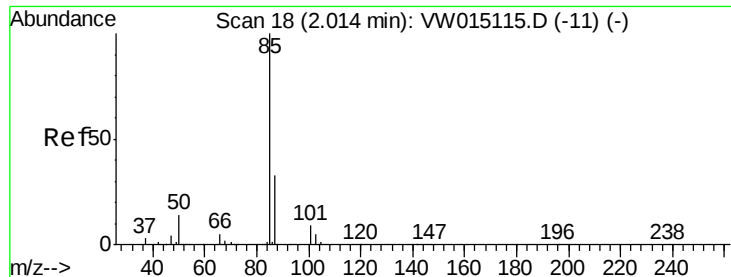
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#2

Dichlorodifluoromethane

Concen: 22.132 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

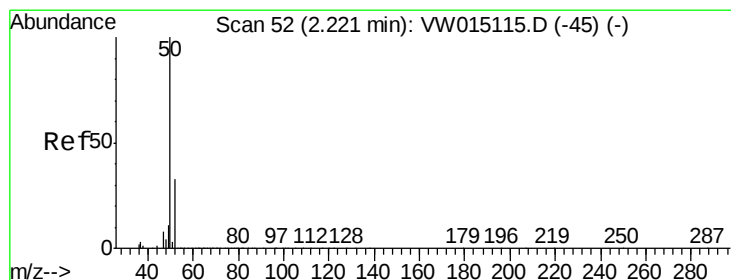
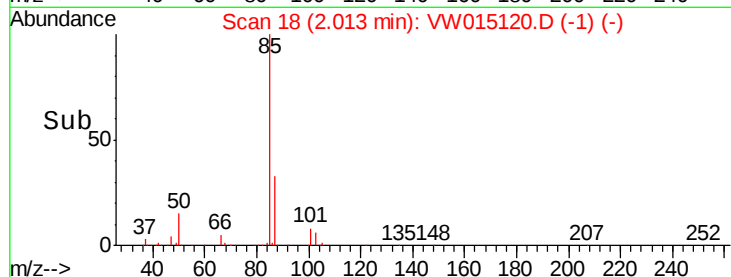
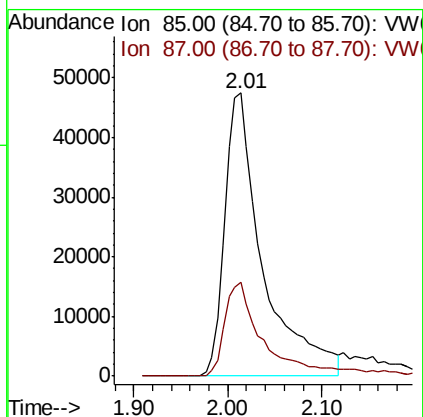
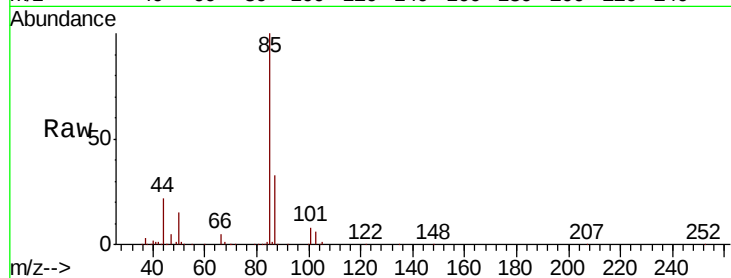
VSTD02515

Tot Ion: 85 Resp: 133337

Ion Ratio Lower Upper

85 100

87 31.5 22.0 41.0



#3

Chloromethane

Concen: 16.589 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW015120.D

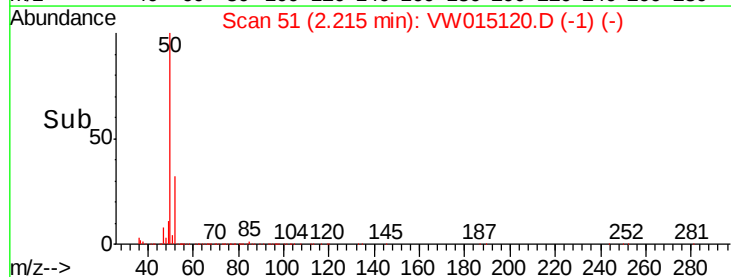
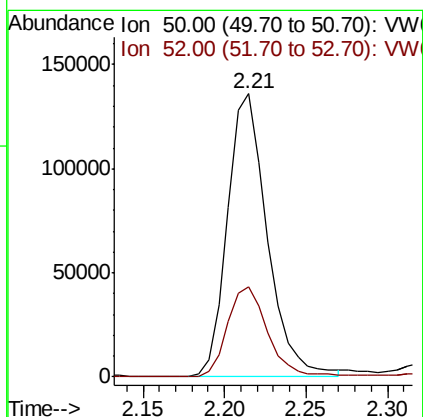
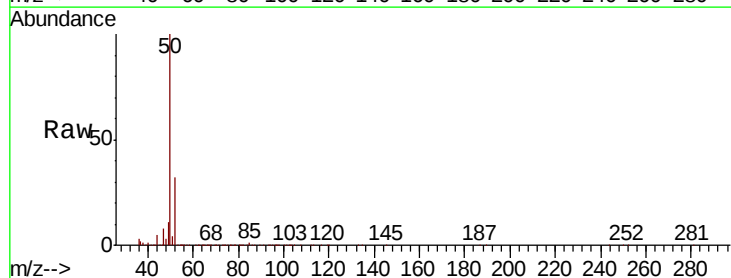
Acq: 12 Mar 2020 15:49

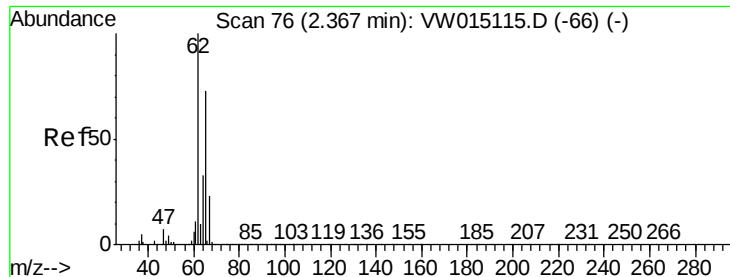
Tgt Ion: 50 Resp: 229097

Ion Ratio Lower Upper

50 100

52 31.9 22.3 41.5





#5

Vinyl chloride

Concen: 18.966 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

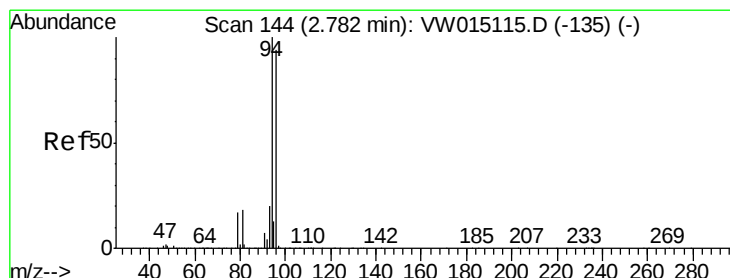
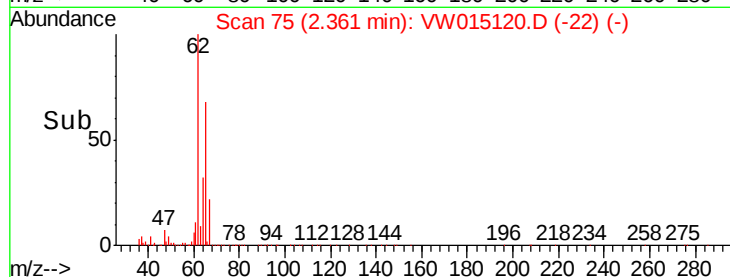
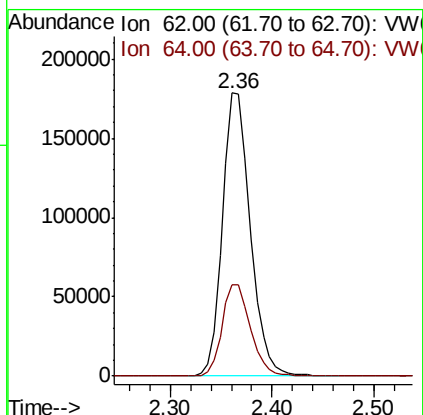
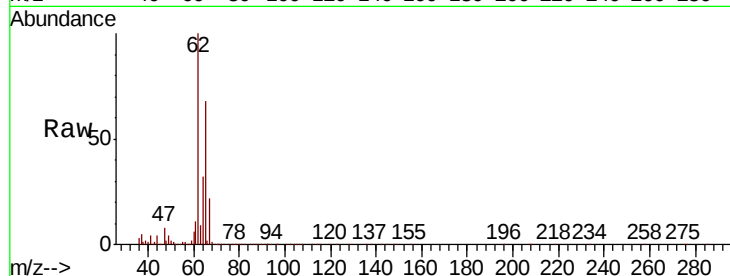
VSTD02515

Tot Ion: 62 Resp: 338892

Ion Ratio Lower Upper

62 100

64 32.3 23.0 42.8



#6

Bromomethane

Concen: 20.735 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW015120.D

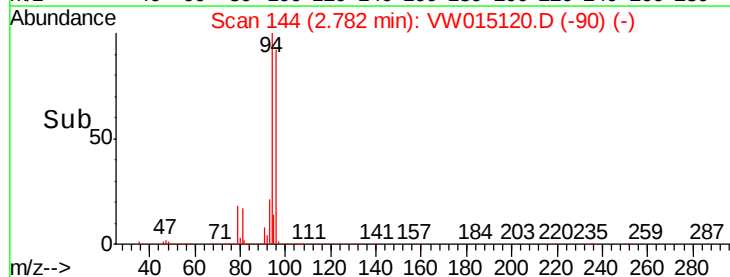
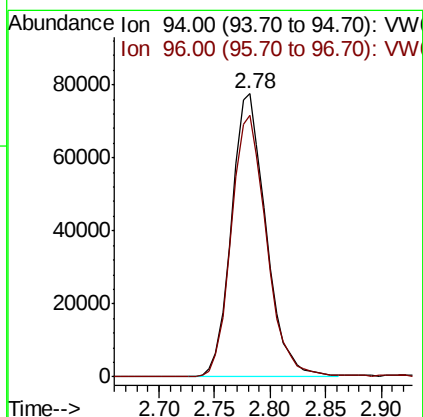
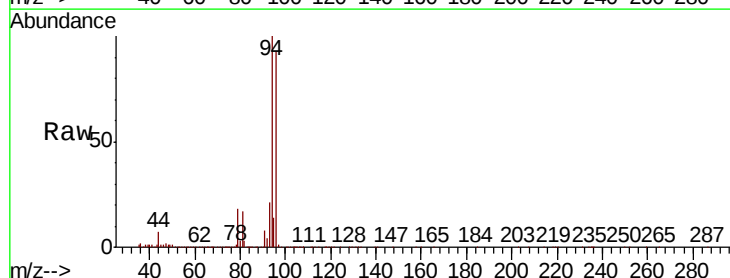
Acq: 12 Mar 2020 15:49

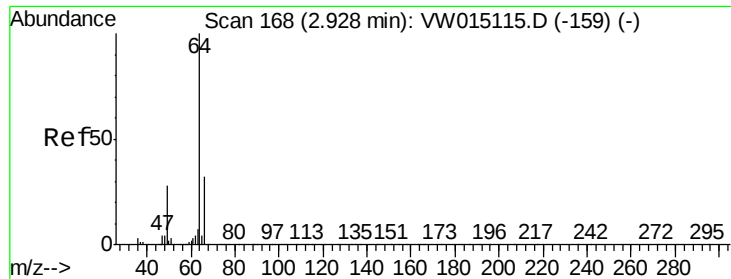
Tgt Ion: 94 Resp: 166327

Ion Ratio Lower Upper

94 100

96 93.7 9.5 179.7

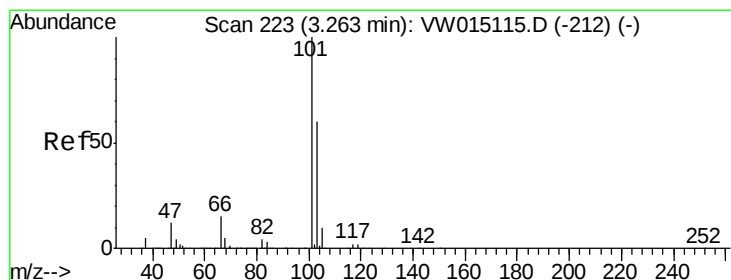
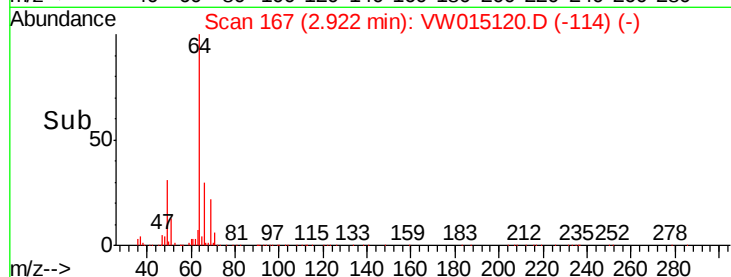
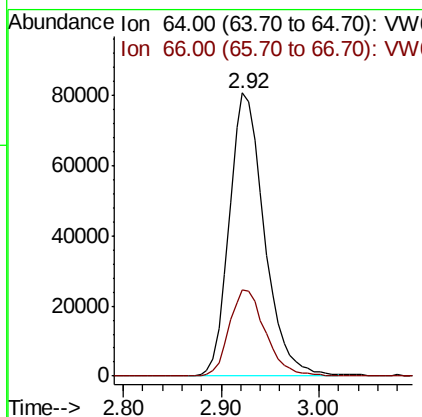
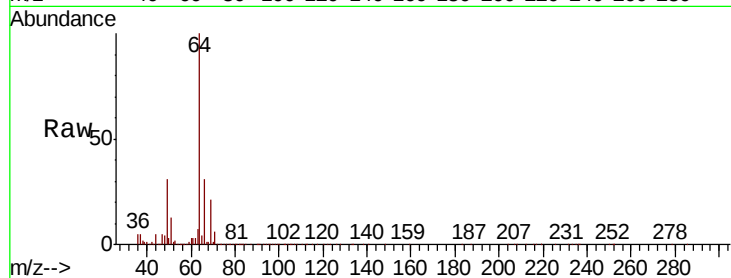




#8
Chloroethane
Concen: 20.699 ug/L
RT: 2.92 min Scan# 167
Delta R.T. -0.01 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

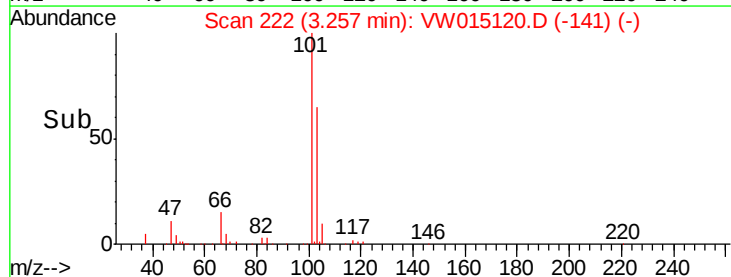
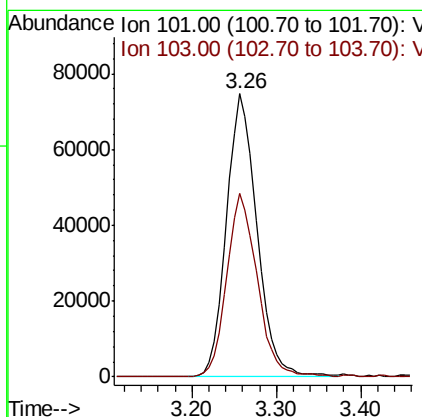
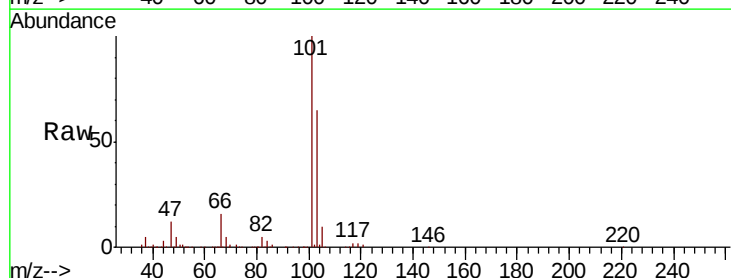
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

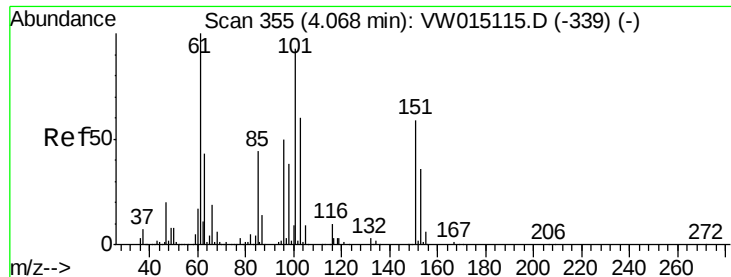
Tot Ion: 64 Resp: 201253
Ion Ratio Lower Upper
64 100
66 30.5 21.2 39.4



#9
Trichlorofluoromethane
Concen: 22.899 ug/L
RT: 3.26 min Scan# 222
Delta R.T. -0.01 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

Tgt Ion: 101 Resp: 184398
Ion Ratio Lower Upper
101 100
103 64.2 44.9 83.5





#11

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

Concen: 23.322 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

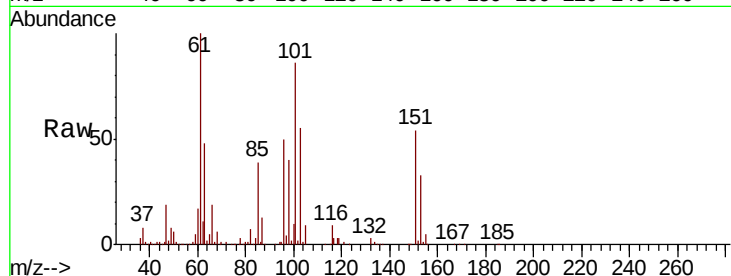
Tot Ion:101 Resp: 258670

Ion Ratio Lower Upper

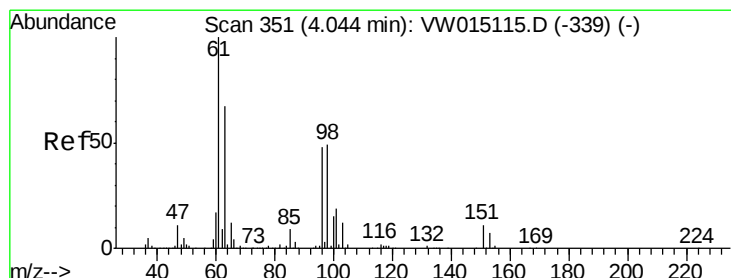
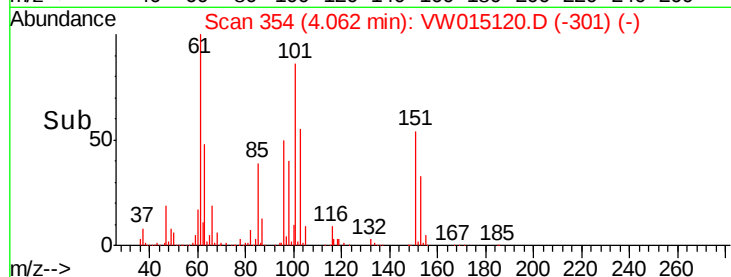
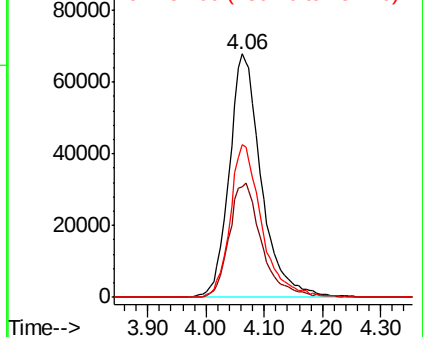
101 100

85 47.2 37.8 56.8

151 60.6 50.3 75.5



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: 23.024 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

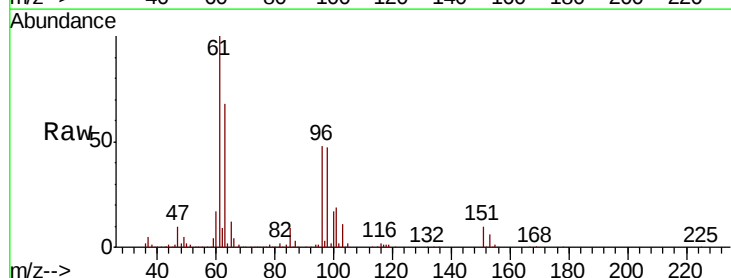
Tgt Ion: 96 Resp: 243117

Ion Ratio Lower Upper

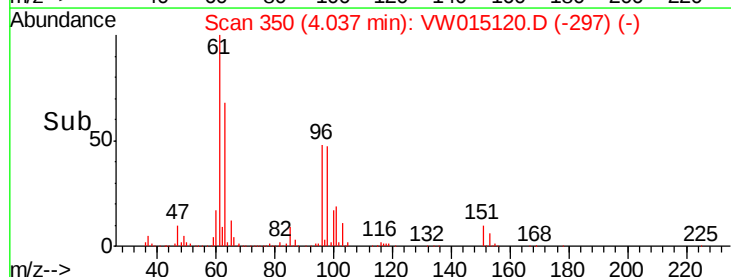
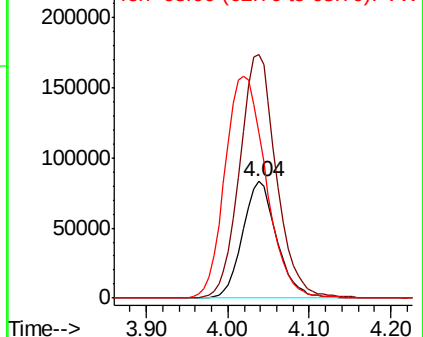
96 100

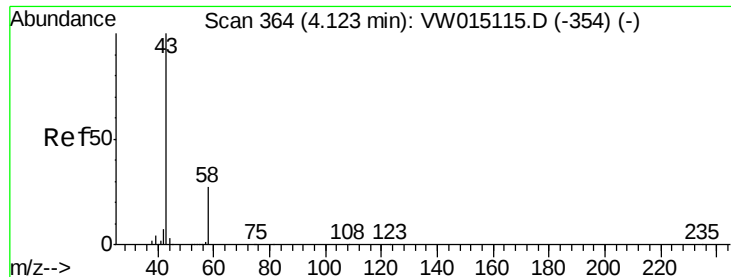
61 209.4 138.5 257.1

63 142.0 93.4 173.6



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: 44.733 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

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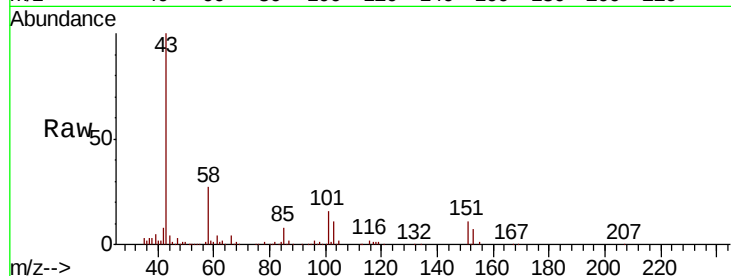
VSTD02515

Tot Ion: 43 Resp: 156185

Ion Ratio Lower Upper

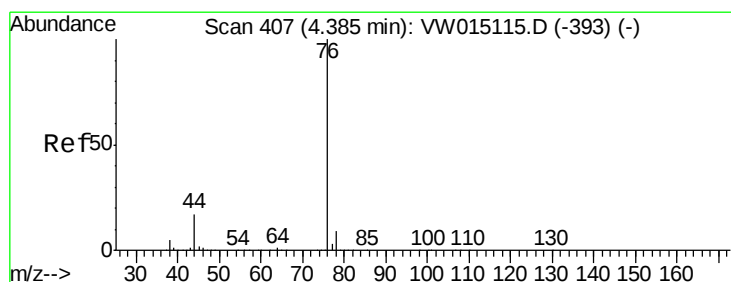
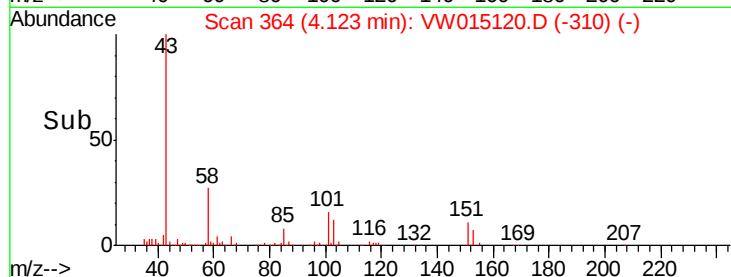
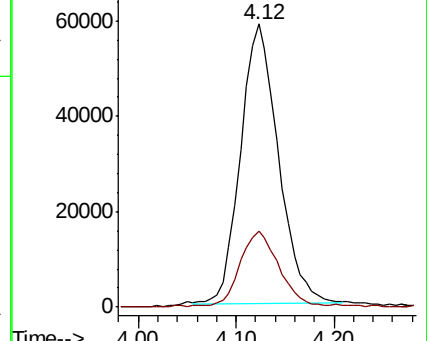
43 100

58 27.8 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: 20.631 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW015120.D

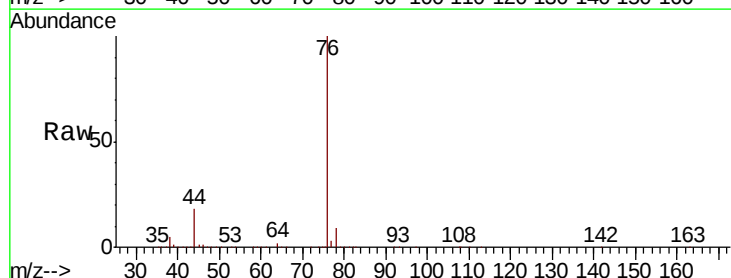
Acq: 12 Mar 2020 15:49

Tgt Ion: 76 Resp: 815211

Ion Ratio Lower Upper

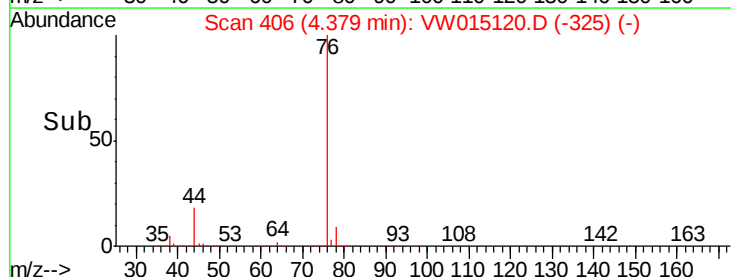
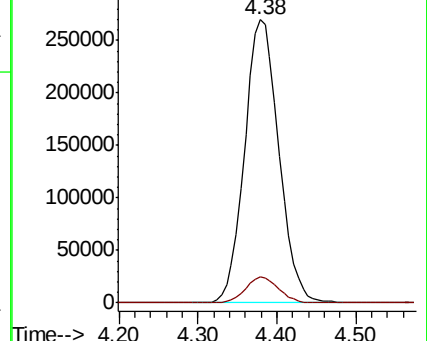
76 100

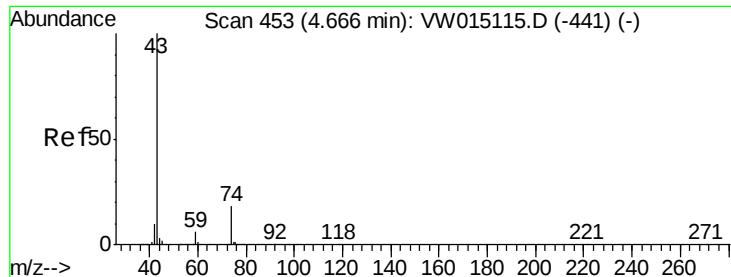
78 9.3 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methvl Acetate

Concen: 23.183 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampled :

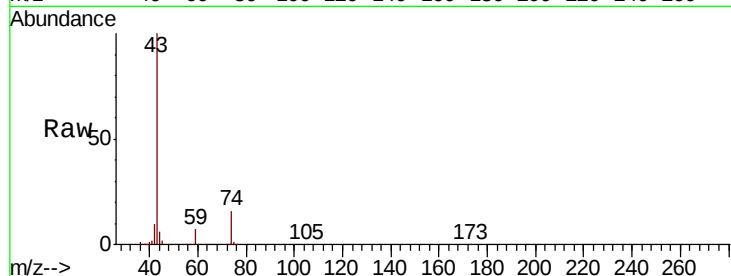
VSTD02515

Tot Ion: 43 Resp: 136294

Ion Ratio Lower Upper

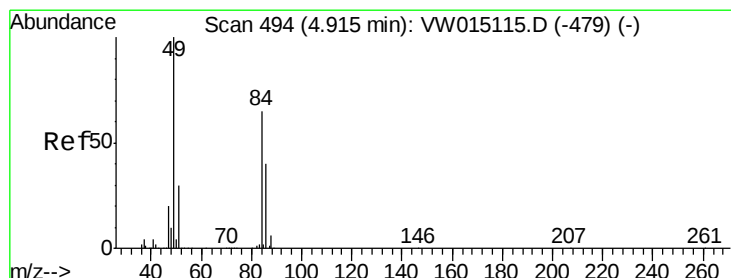
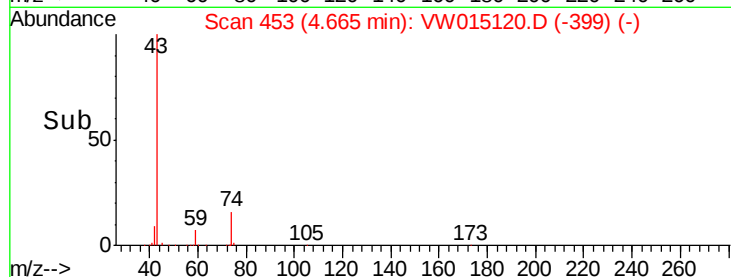
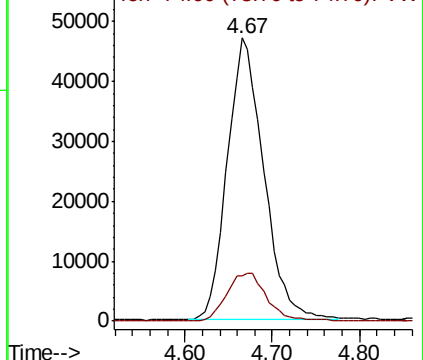
43 100

74 18.6 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 22.107 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

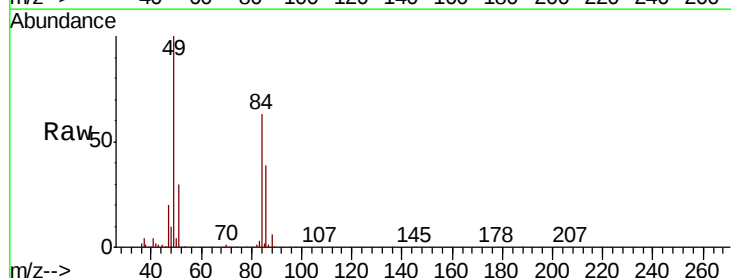
Tgt Ion: 84 Resp: 288910

Ion Ratio Lower Upper

84 100

49 159.9 115.6 214.8

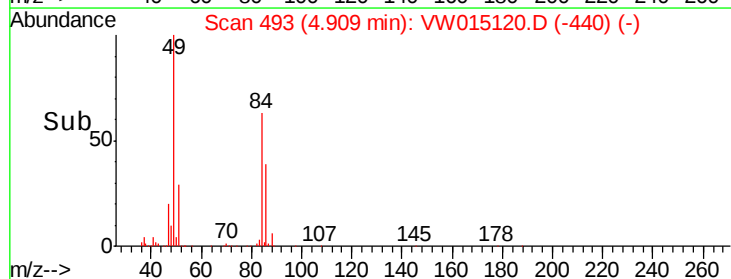
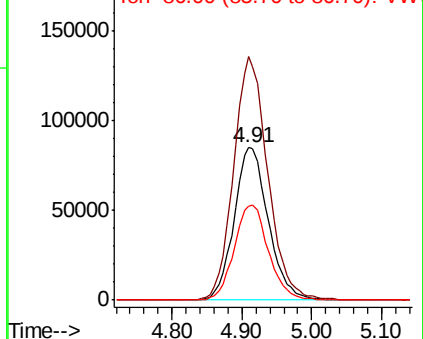
86 62.0 45.9 85.3

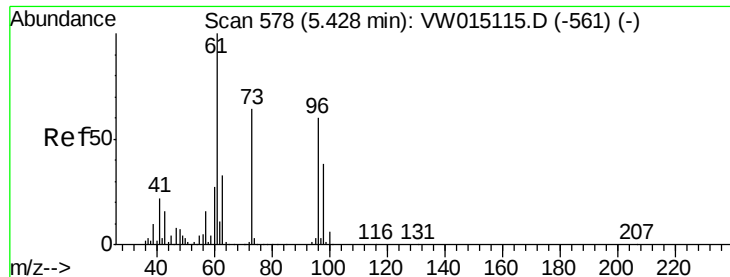


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

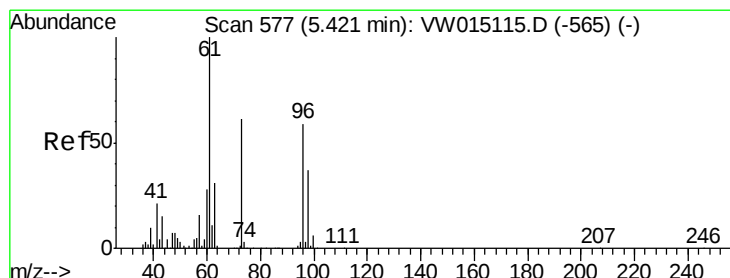
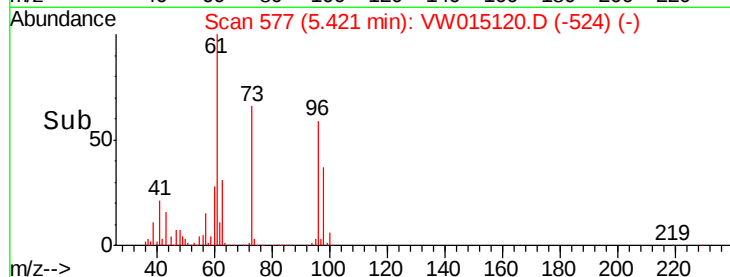
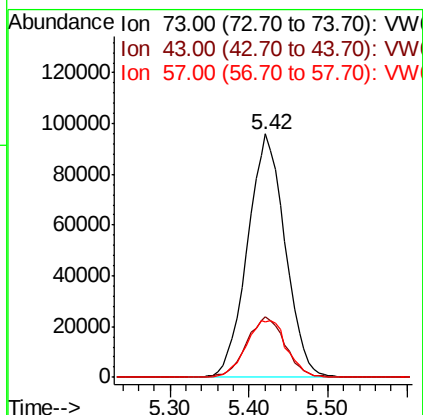
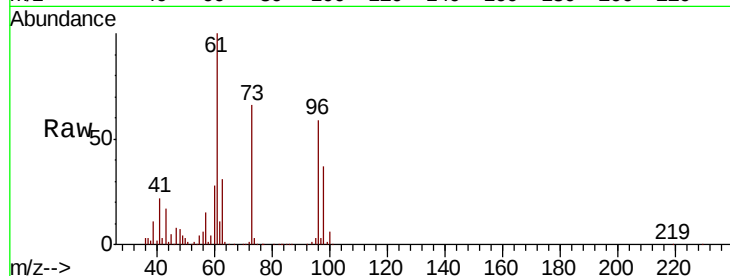




#17
Methvl tert-butvl Ether
Concen: 24.819 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

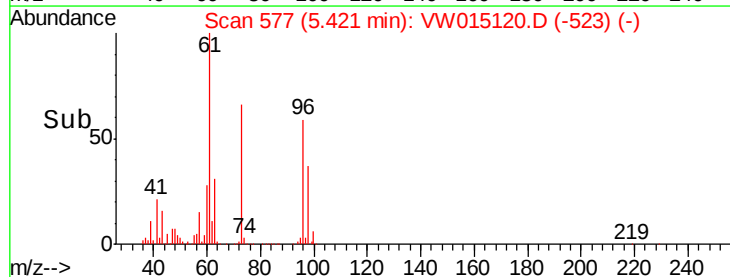
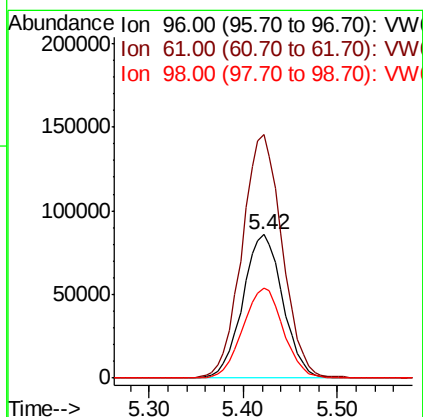
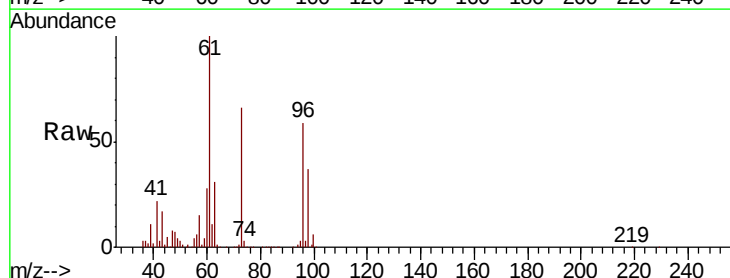
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

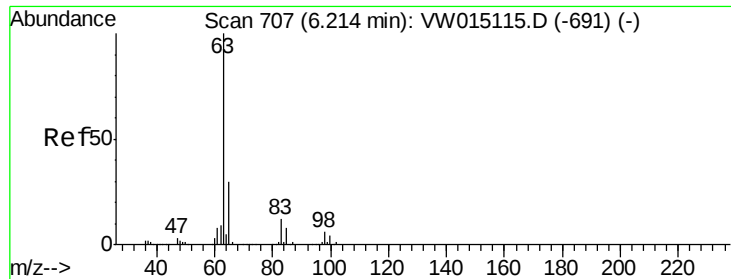
Tot Ion: 73 Resp: 317222
Ion Ratio Lower Upper
73 100
43 25.5 19.7 29.5
57 25.4 20.4 30.6



#18
trans-1,2-Dichloroethene
Concen: 23.250 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

Tgt Ion: 96 Resp: 253642
Ion Ratio Lower Upper
96 100
61 170.0 115.1 213.8
98 62.9 44.0 81.6

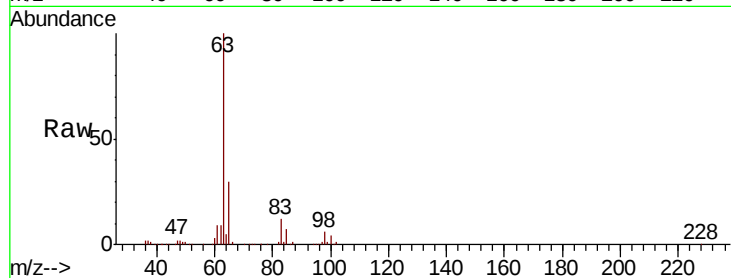




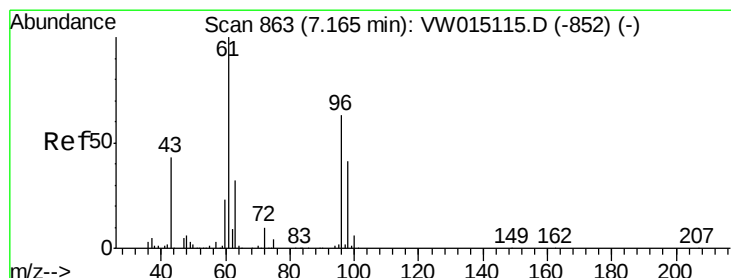
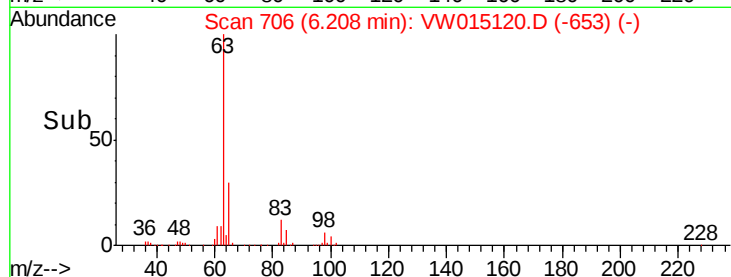
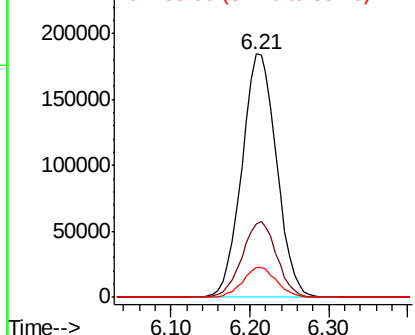
#19
 1,1-Dichloroethane
 Concen: 23.189 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

Tot Ion: 63 Resp: 564230
 Ion Ratio Lower Upper
 63 100
 65 30.1 21.9 40.7
 83 12.1 7.8 14.6

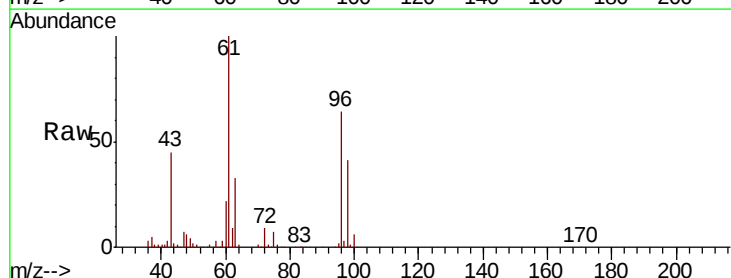


Abundance Ion 63.00 (62.70 to 63.70): VW
 250000
 Ion 65.00 (64.70 to 65.70): VW
 Ion 83.00 (82.70 to 83.70): VW

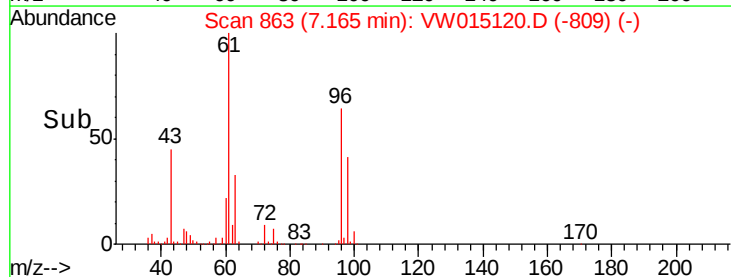
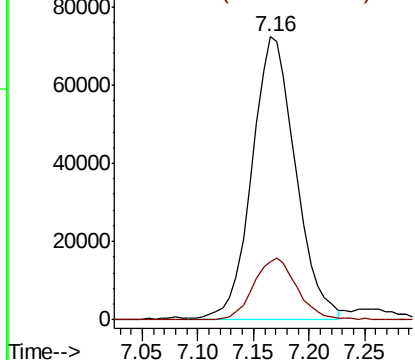


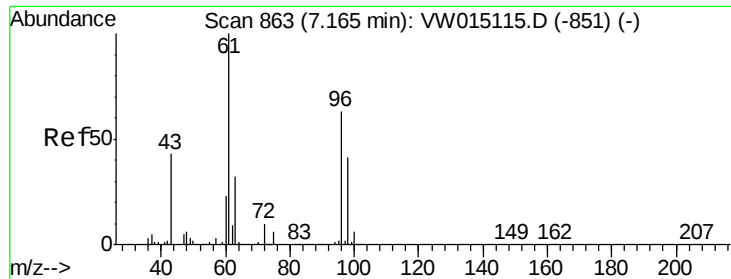
#21
 2-Butanone
 Concen: 47.963 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Tgt Ion: 43 Resp: 196920
 Ion Ratio Lower Upper
 43 100
 72 21.6 10.4 31.4



Abundance Ion 43.00 (42.70 to 43.70): VW
 80000
 Ion 72.00 (71.70 to 72.70): VW





#22

cis-1,2-Dichloroethene

Concen: 24.155 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

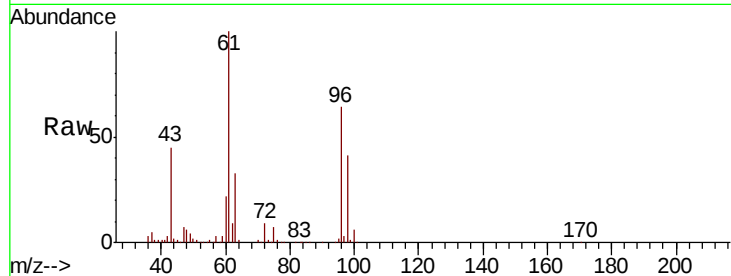
Tot Ion: 96 Resp: 268172

Ion Ratio Lower Upper

96 100

61 156.7 105.2 195.4

98 63.5 42.6 79.2

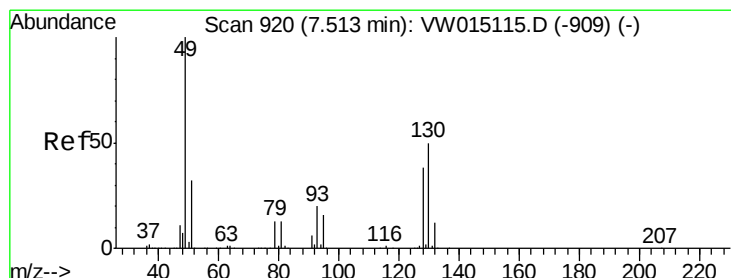
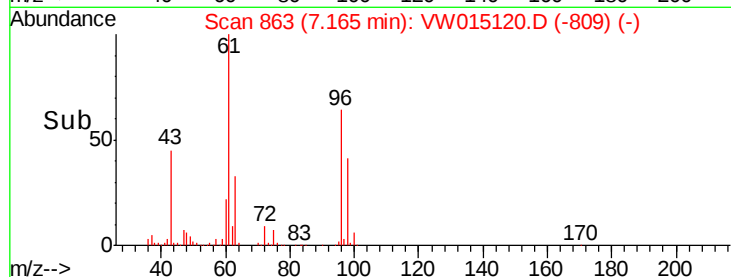
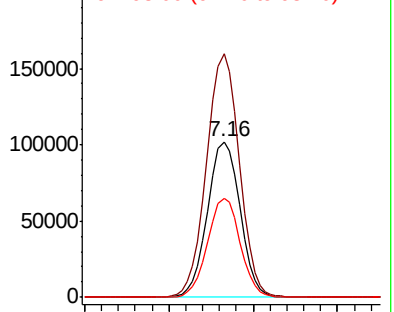


Abundance

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: 23.453 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Tgt Ion:128 Resp: 101292

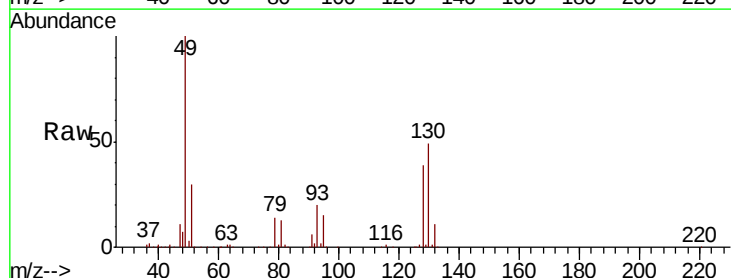
Ion Ratio Lower Upper

128 100

49 256.8 192.7 357.9

130 124.7 92.7 172.1

51 77.3 69.3 103.9



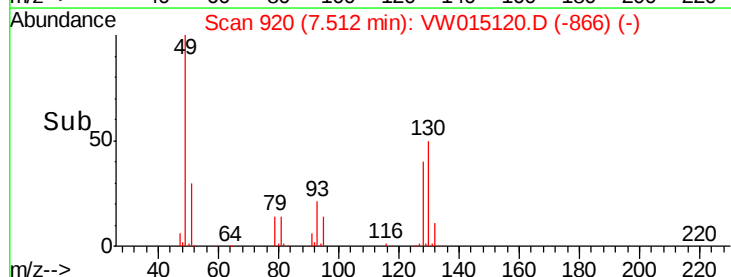
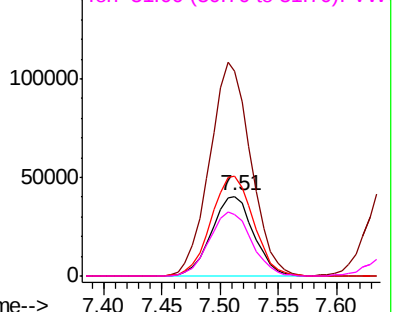
Abundance

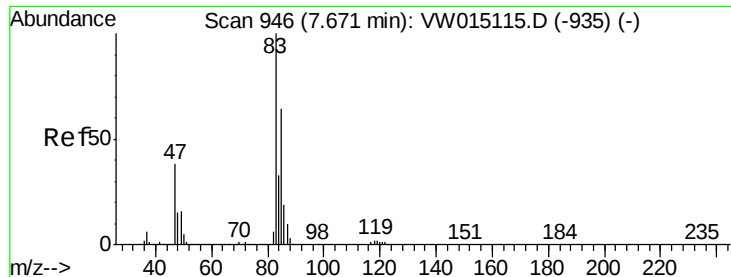
Ion 128.00 (127.70 to 128.70): V

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

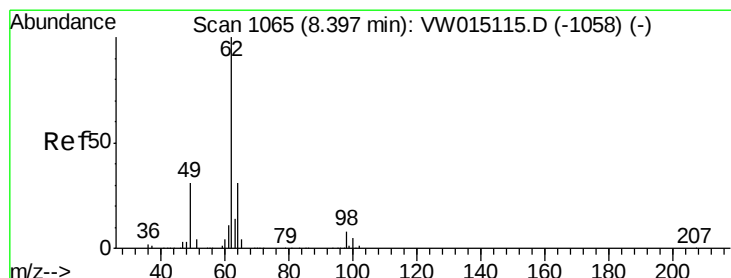
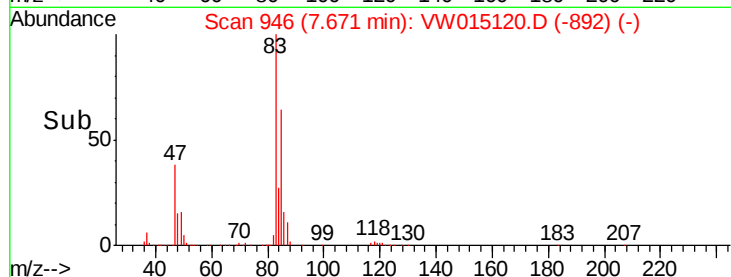
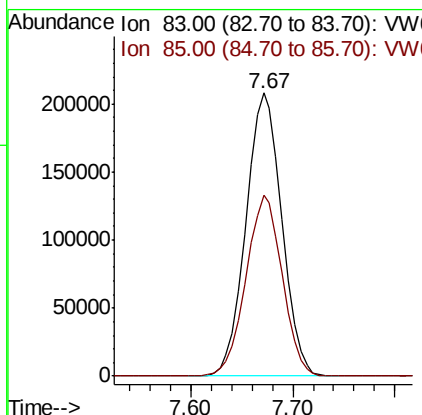
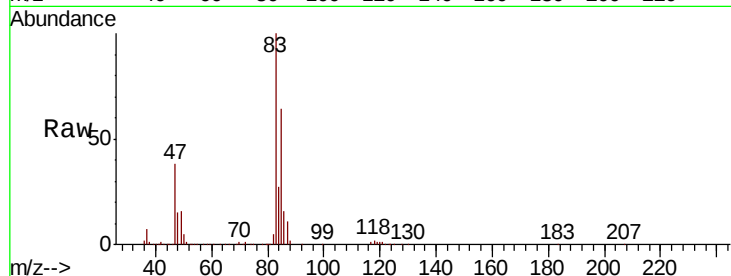




#25
Chloroform
Concen: 23.019 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

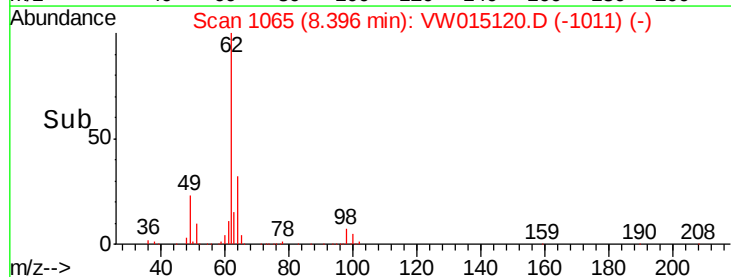
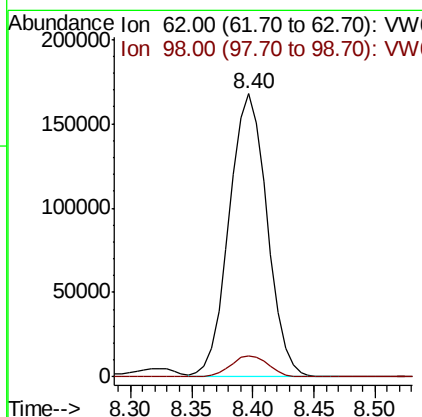
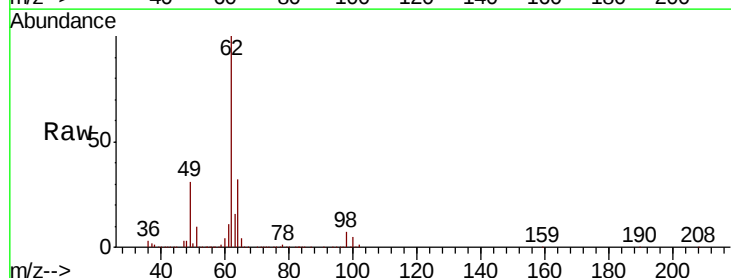
Instrument :
MSVOA_W
ClientSampled :
VSTD02515

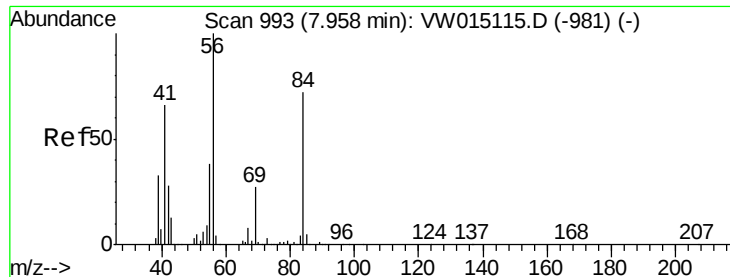
Tot Ion: 83 Resp: 508288
Ion Ratio Lower Upper
83 100
85 64.8 44.9 83.5



#27
1,2-Dichloroethane
Concen: 23.894 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

Tgt Ion: 62 Resp: 361004
Ion Ratio Lower Upper
62 100
98 7.3 6.5 9.7

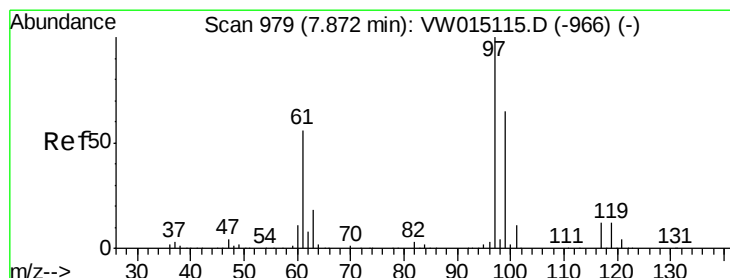
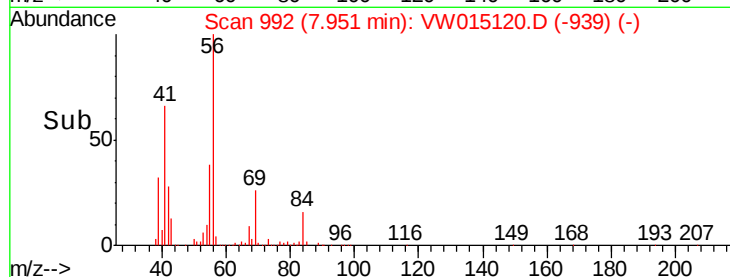
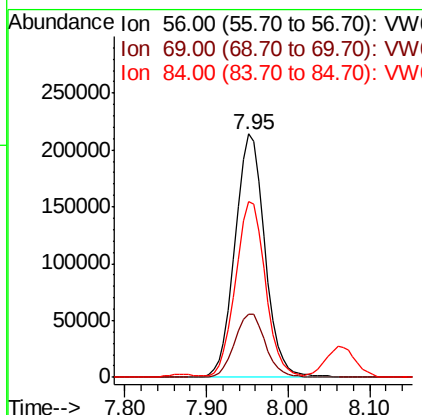
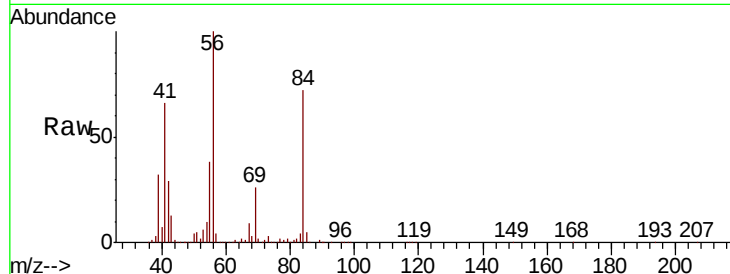




#30
Cyclohexane
Concen: 25.460 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

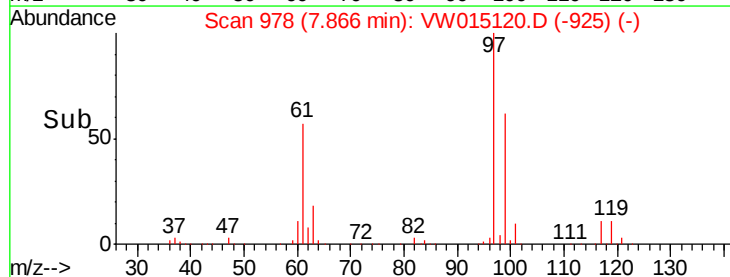
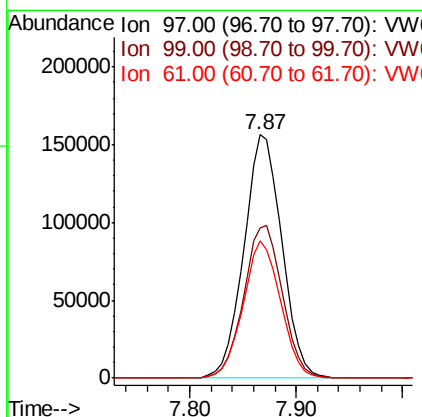
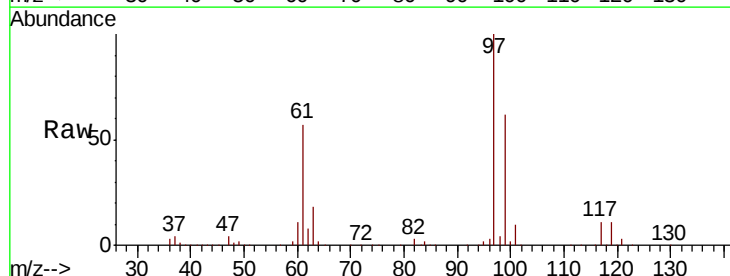
Instrument :
MSVOA_W
ClientSampled :
VSTD02515

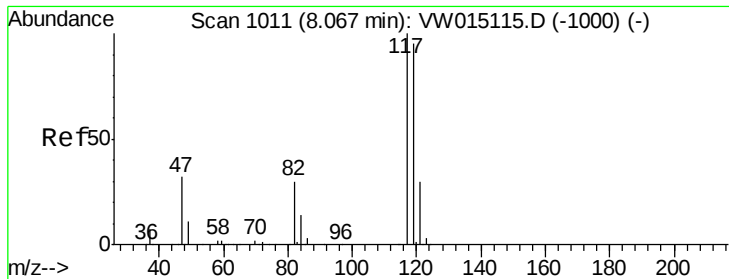
Tot Ion: 56 Resp: 543981
Ion Ratio Lower Upper
56 100
69 26.7 21.8 32.6
84 72.0 57.3 85.9



#31
1,1,1-Trichloroethane
Concen: 23.750 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

Tgt Ion: 97 Resp: 391420
Ion Ratio Lower Upper
97 100
99 63.8 50.6 76.0
61 55.7 43.1 64.7





#32

Carbon tetrachloride

Concen: 23.470 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

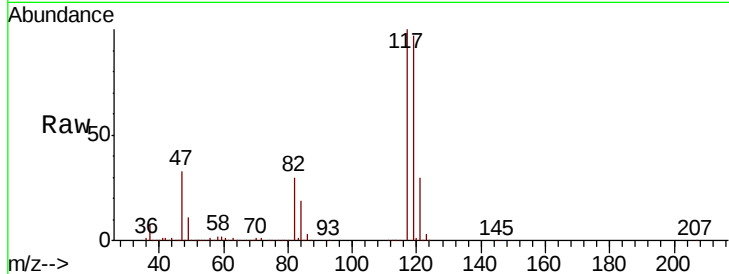
VSTD02515

Tot Ion:117 Resp: 346620

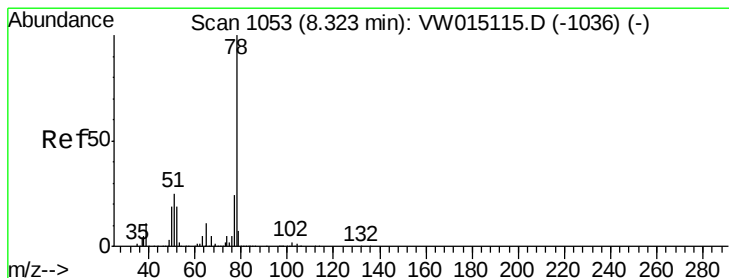
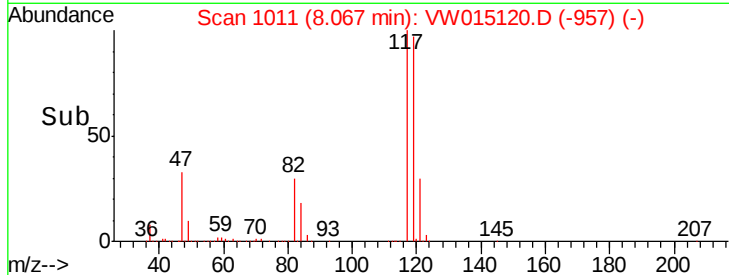
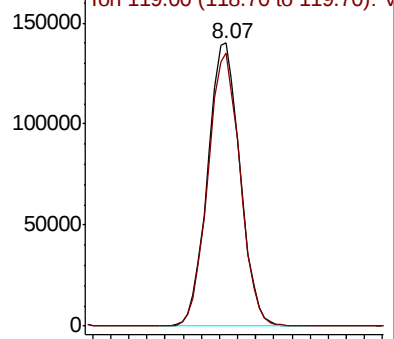
Ion Ratio Lower Upper

117 100

119 95.9 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V



#34

Benzene

Concen: 24.653 ug/L

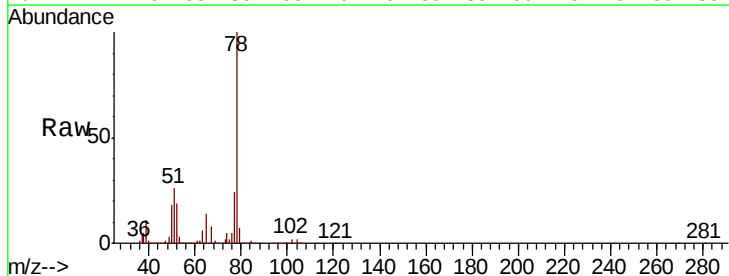
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

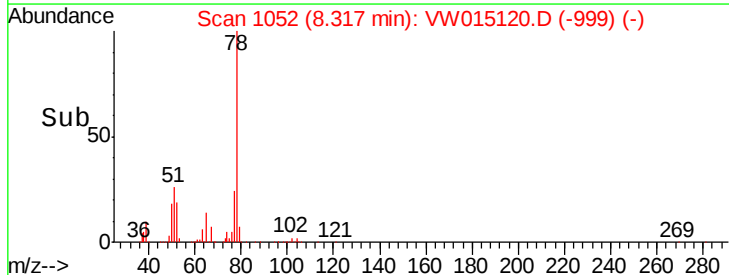
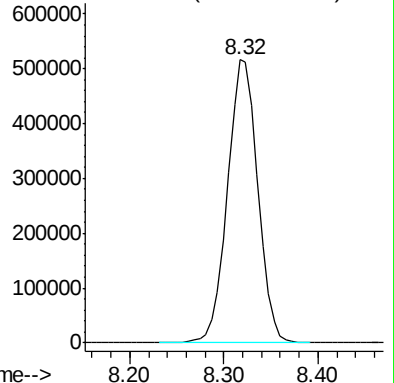
Lab File: VW015120.D

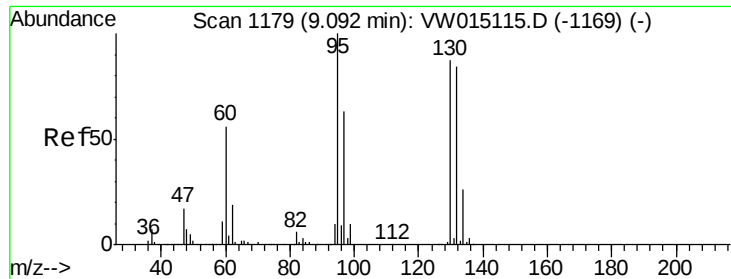
Acq: 12 Mar 2020 15:49

Tgt Ion: 78 Resp: 1171914



Abundance Ion 78.00 (77.70 to 78.70): VW

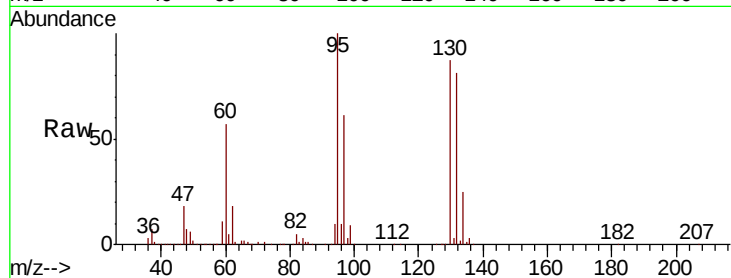




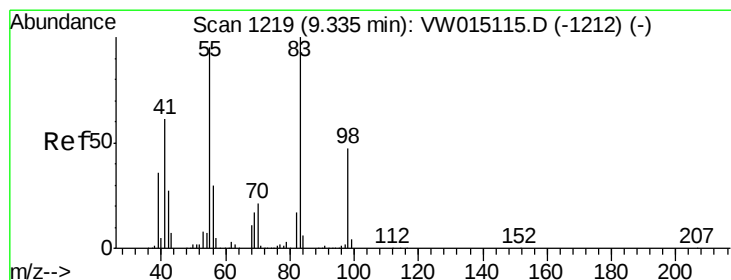
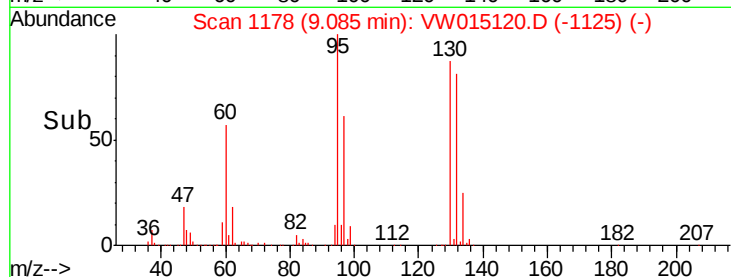
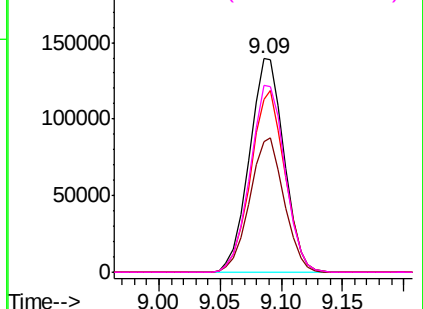
#35
 Trichloroethene
 Concen: 23.950 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. -0.01 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02515

Tot Ion: 95 Resp: 275403
 Ion Ratio Lower Upper
 95 100
 97 62.5 44.7 83.1
 132 84.0 58.1 107.9
 130 88.1 62.0 115.2

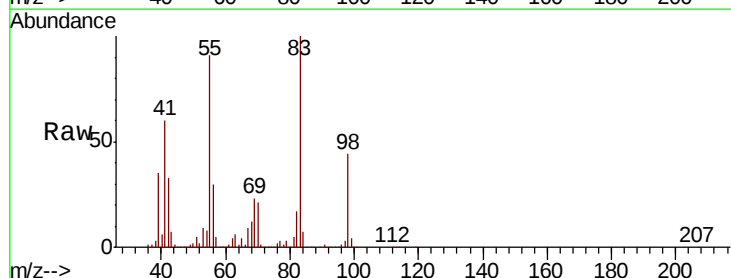


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

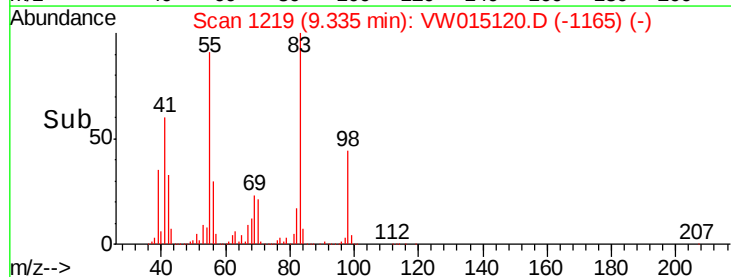
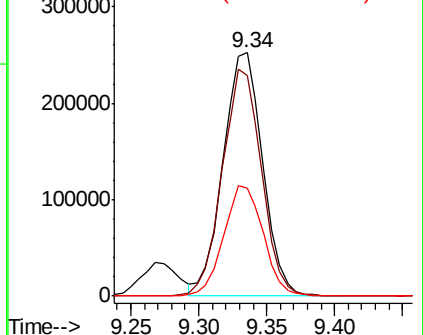


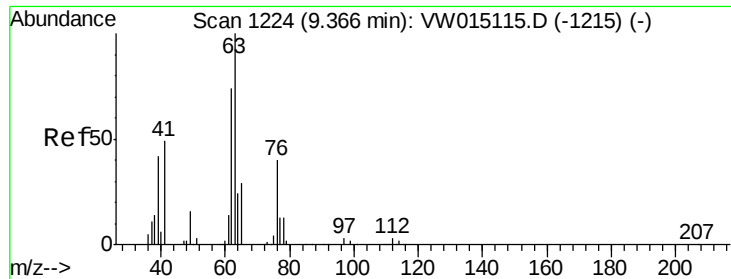
#36
 Methylcyclohexane
 Concen: 25.899 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Tgt Ion: 83 Resp: 511393
 Ion Ratio Lower Upper
 83 100
 55 92.3 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: 24.002 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

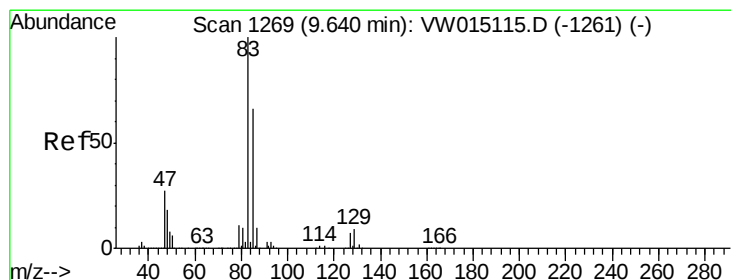
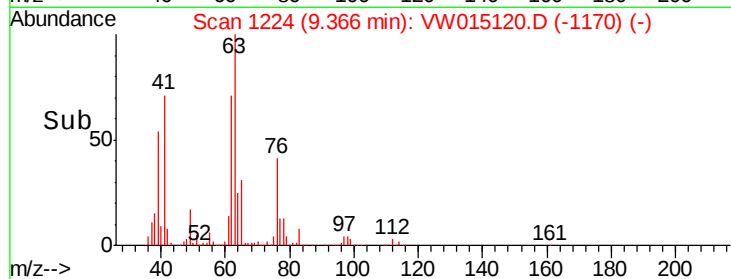
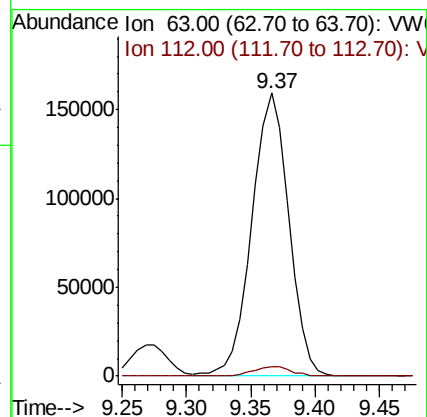
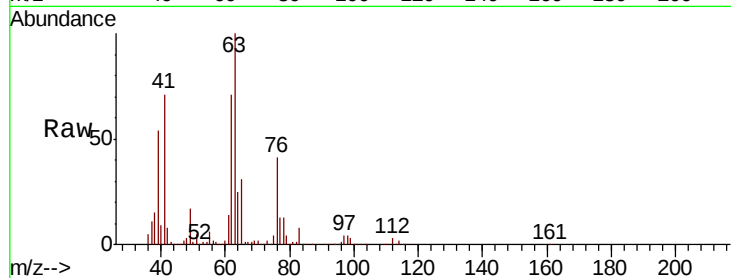
VSTD02515

Tot Ion: 63 Resp: 316888

Ion Ratio Lower Upper

63 100

112 3.6 2.8 4.2



#41

Bromodichloromethane

Concen: 24.218 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

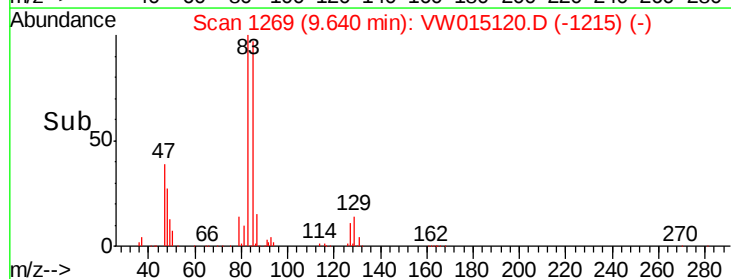
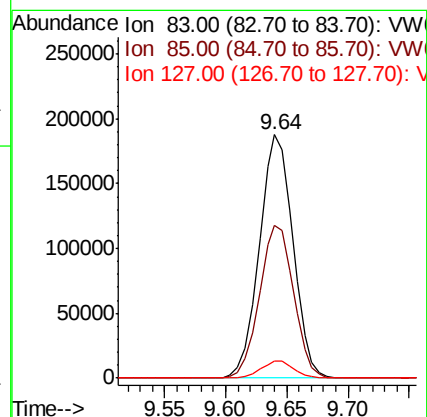
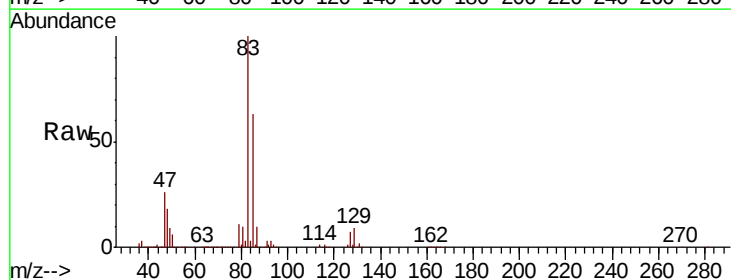
Tgt Ion: 83 Resp: 358667

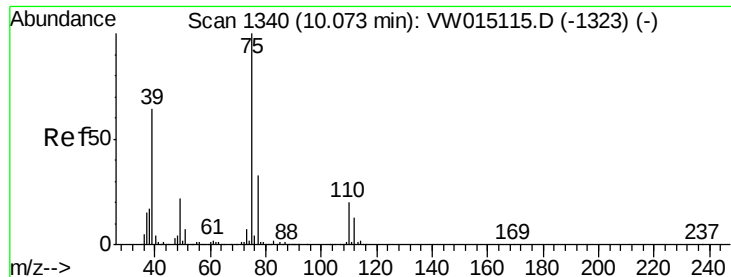
Ion Ratio Lower Upper

83 100

85 63.0 44.7 83.1

127 7.1 5.4 8.0





#42

cis-1,3-Dichloropropene

Concen: 25.605 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampled :

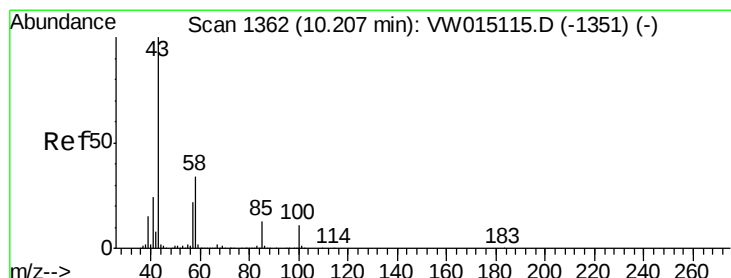
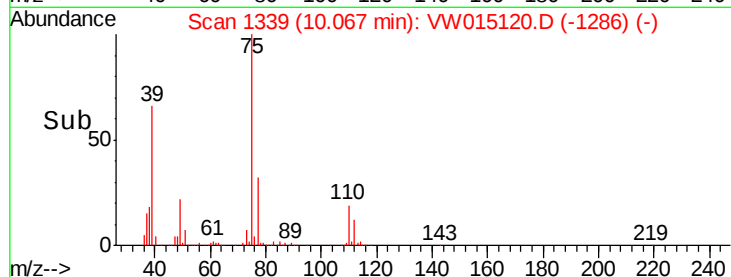
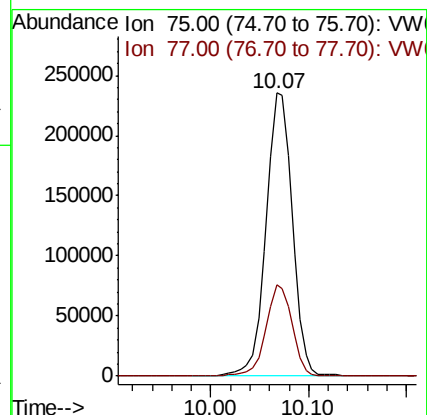
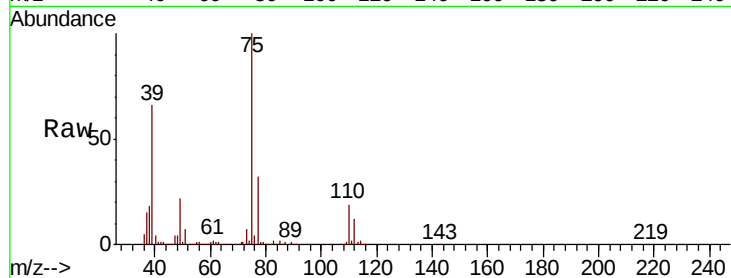
VSTD02515

Tot Ion: 75 Resp: 440520

Ion Ratio Lower Upper

75 100

77 32.4 21.9 40.7



#43

4-Methyl-2-pentanone

Concen: 55.141 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

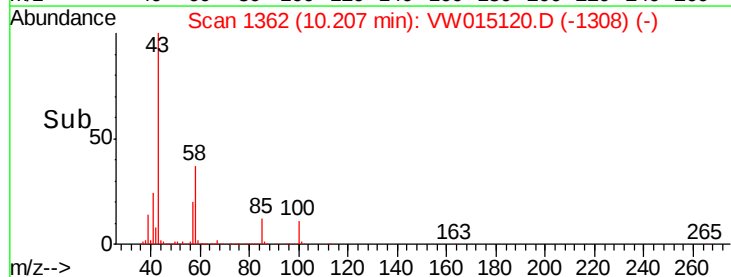
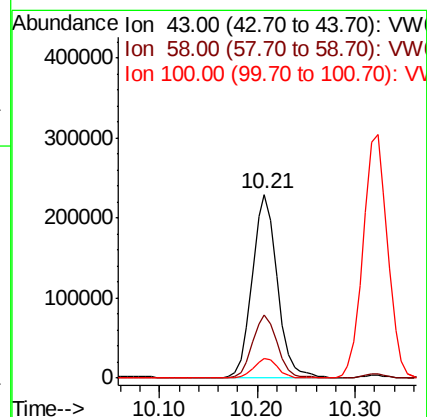
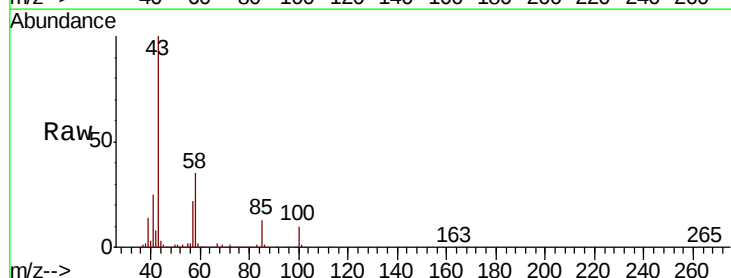
Tgt Ion: 43 Resp: 407185

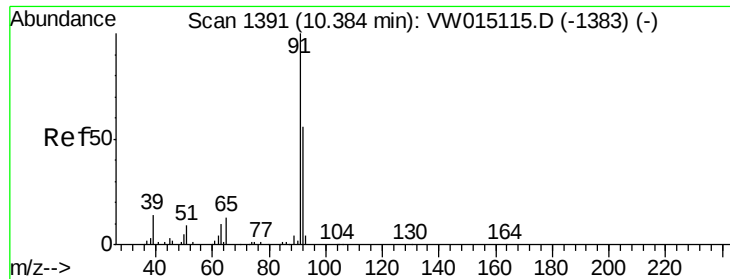
Ion Ratio Lower Upper

43 100

58 34.4 27.6 41.4

100 10.3 8.6 13.0





#44

Toluene

Concen: 25.616 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

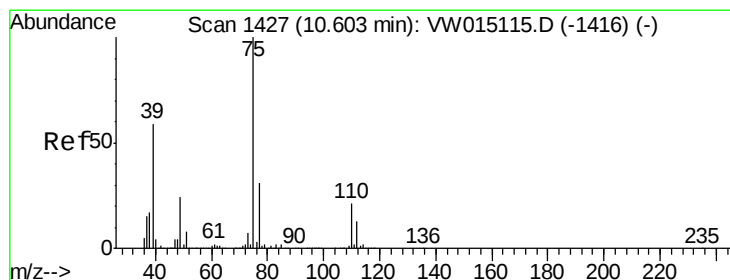
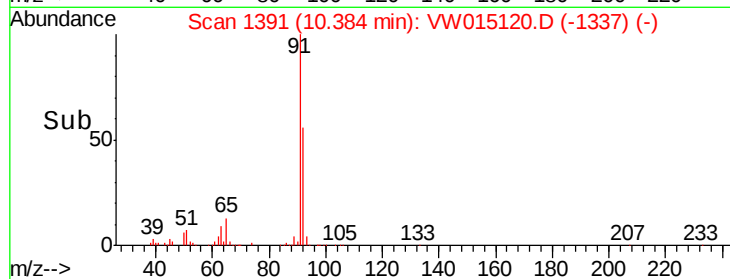
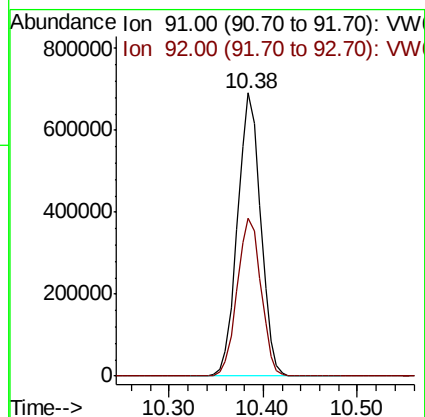
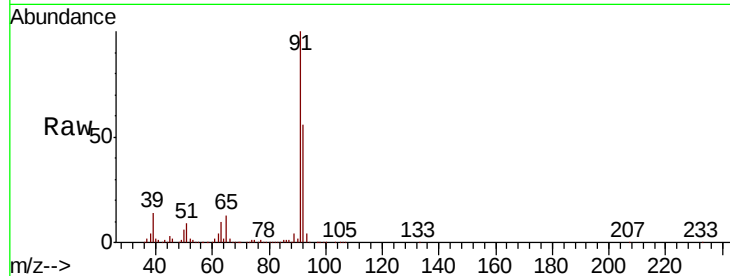
VSTD02515

Tot Ion: 91 Resp: 1182616

Ion Ratio Lower Upper

91 100

92 56.0 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 25.188 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW015120.D

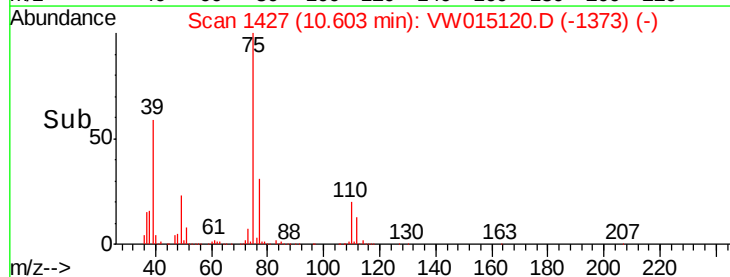
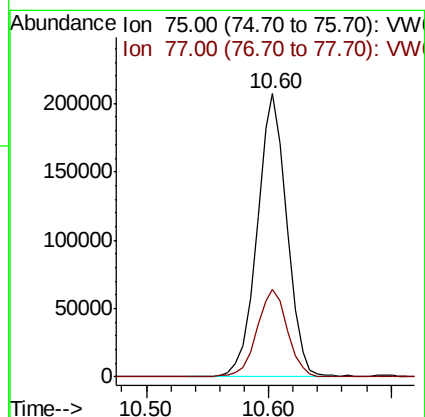
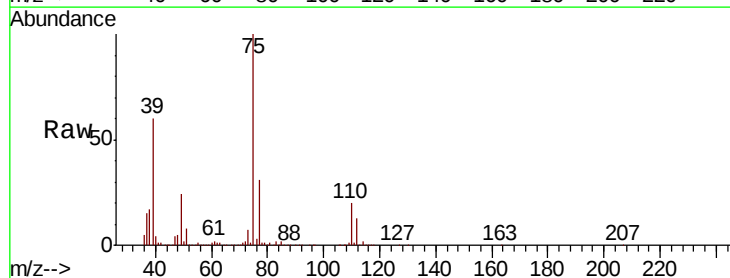
Acq: 12 Mar 2020 15:49

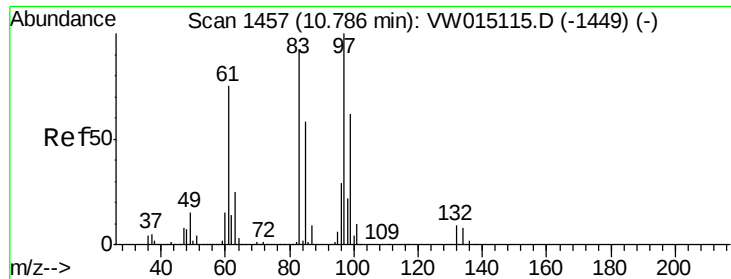
Tgt Ion: 75 Resp: 350247

Ion Ratio Lower Upper

75 100

77 30.7 21.6 40.2



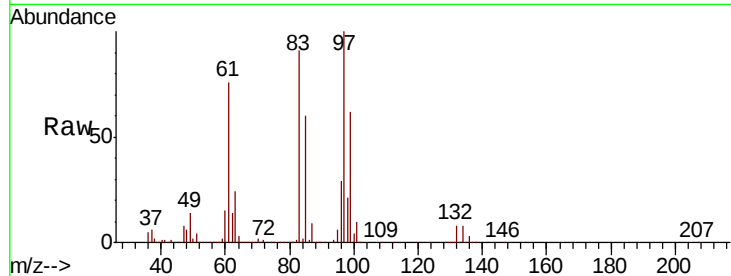


#46
 1,1,2-Trichloroethane
 Concen: 24.379 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

Tot Ion: 97 Resp: 181128

Ion	Ratio	Lower	Upper
97	100		
83	91.2	64.4	119.6
85	59.5	40.9	75.9
99	62.4	44.1	81.9



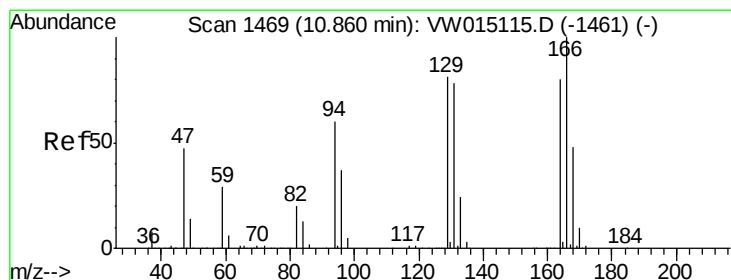
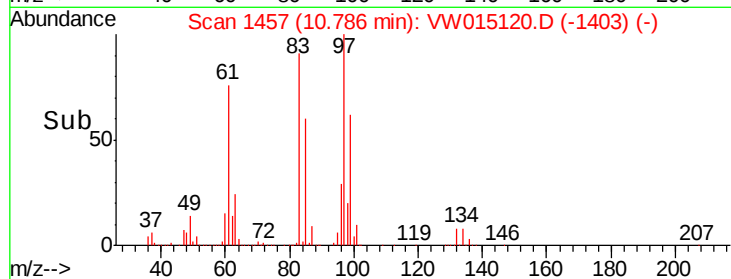
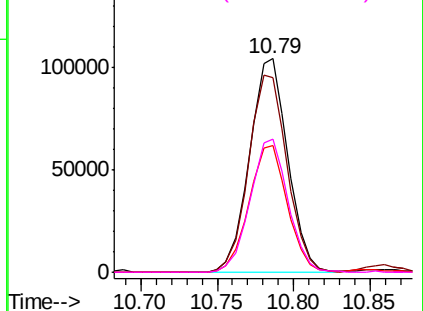
Abundance

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: 23.163 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Tgt Ion: 164 Resp: 171667

Ion	Ratio	Lower	Upper
164	100		
129	101.9	71.7	133.1
131	99.0	70.1	130.3
166	124.3	91.3	169.6

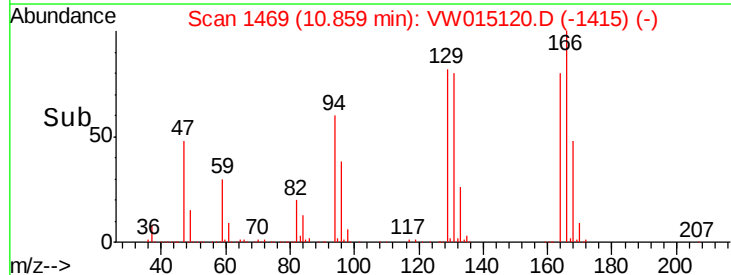
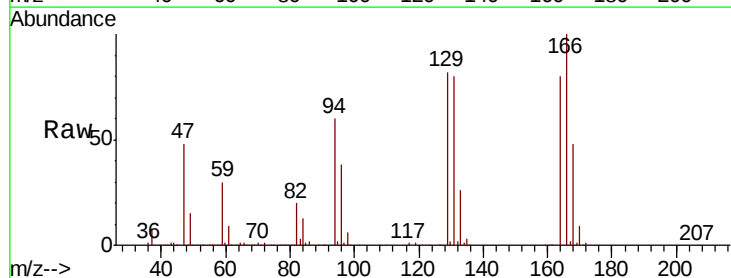
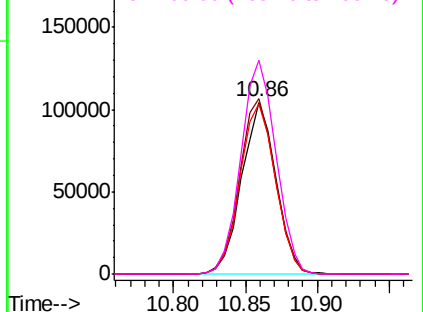
Abundance

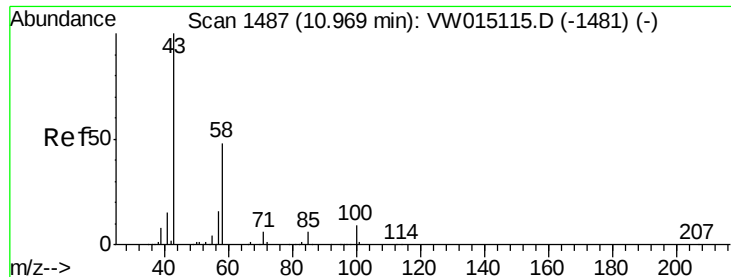
Ion 164.00 (163.70 to 164.70): V

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: 54.865 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampled :

VSTD02515

Tot Ion: 43 Resp: 293725

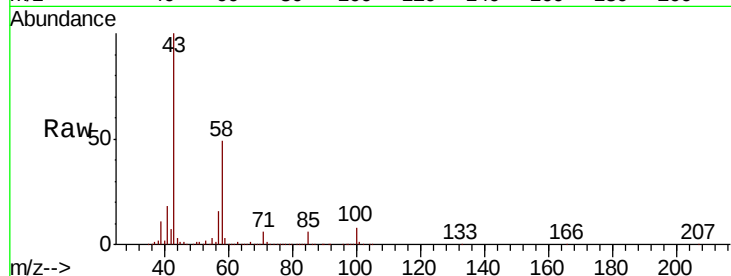
Ion Ratio Lower Upper

43 100

58 47.7 38.9 58.3

57 15.8 13.4 20.2

100 8.5 6.7 10.1

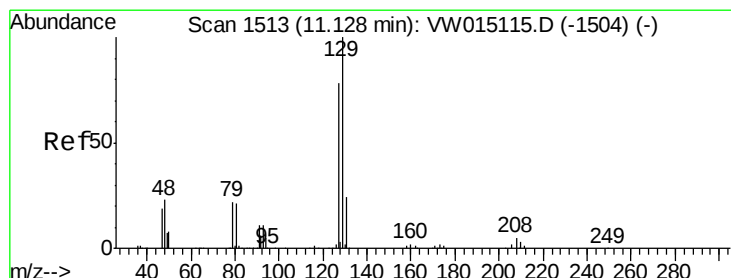
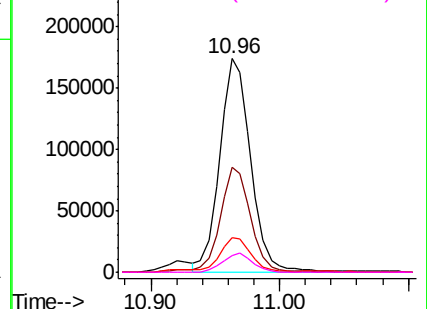
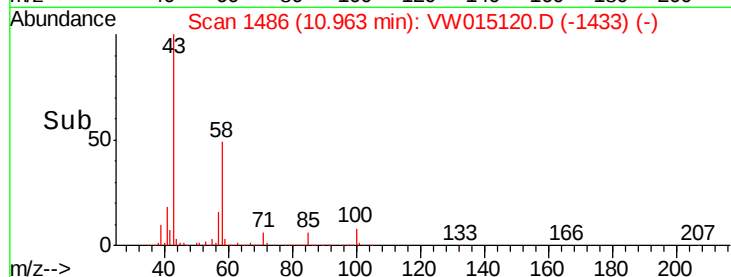


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 24.131 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW015120.D

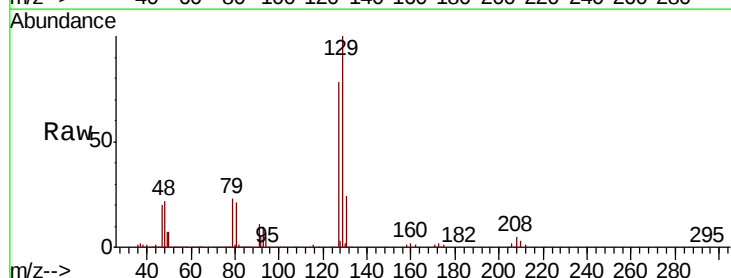
Acq: 12 Mar 2020 15:49

Tgt Ion: 129 Resp: 190803

Ion Ratio Lower Upper

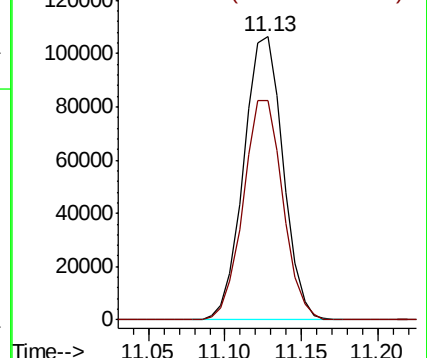
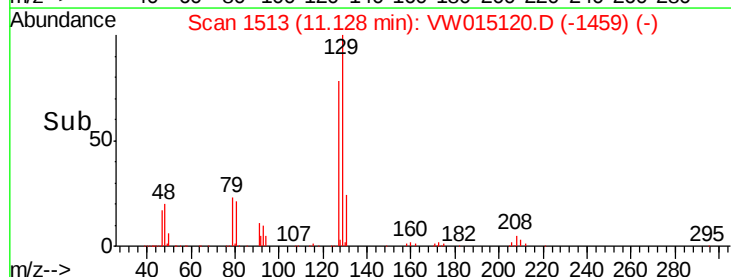
129 100

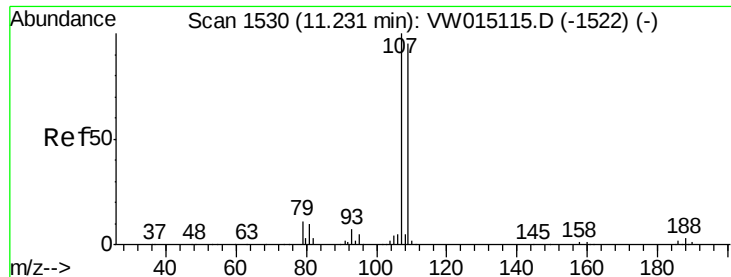
127 77.7 56.4 104.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

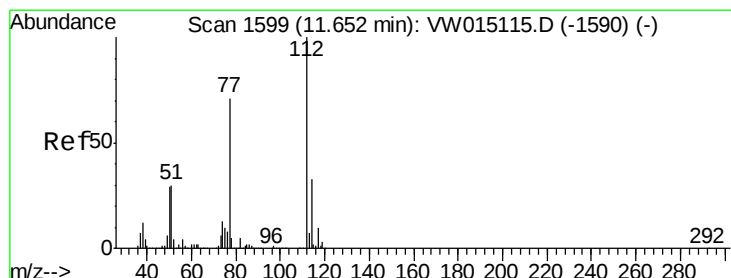
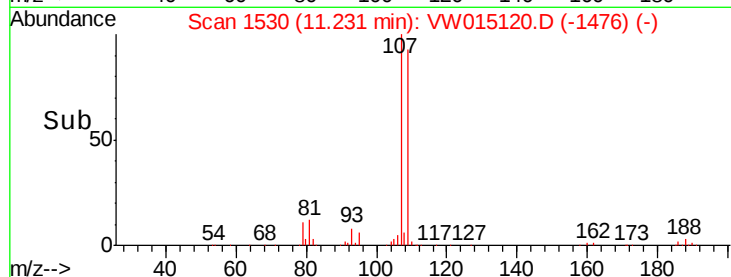
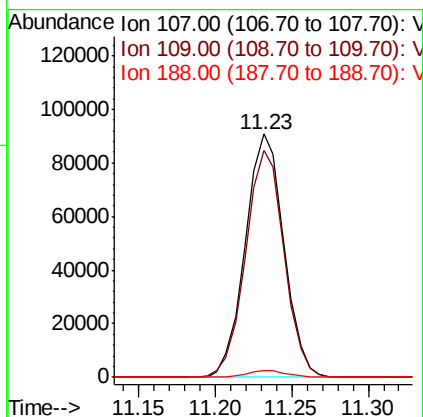
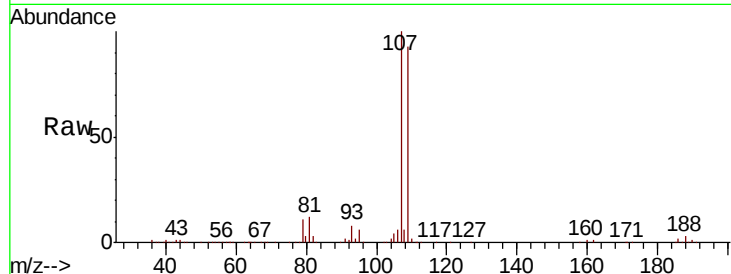




#51
 1,2-Dibromoethane
 Concen: 24.546 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

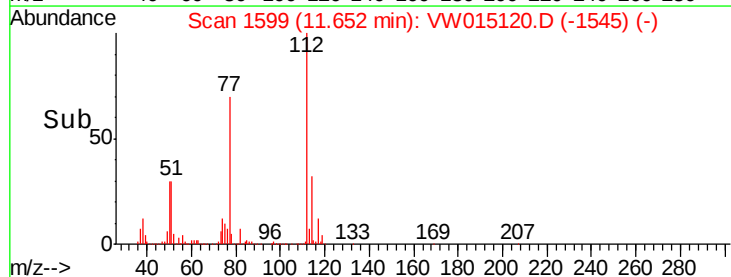
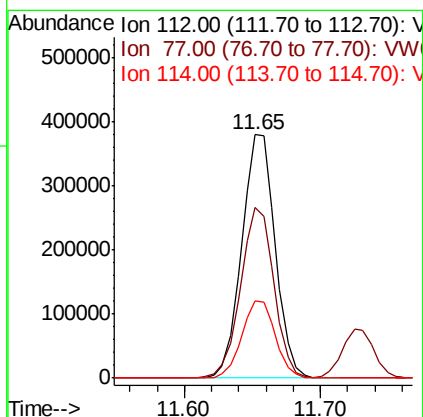
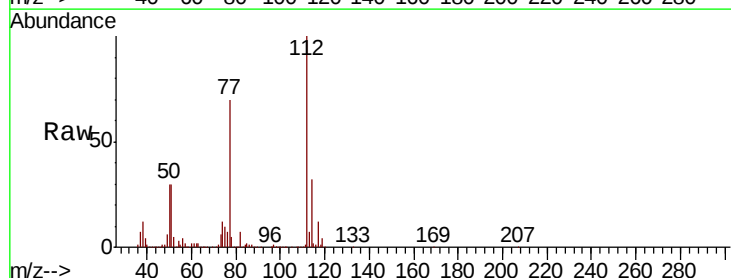
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

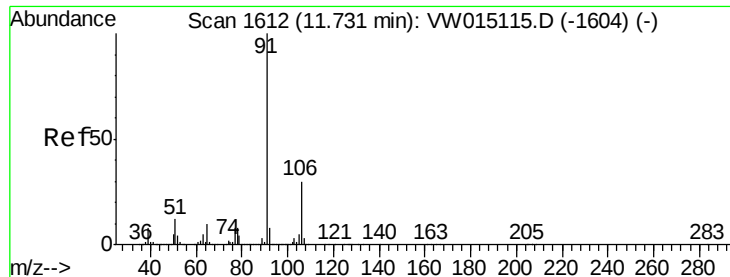
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	61.9	114.9
188	2.7	2.5	3.7



#52
 Chlorobenzene
 Concen: 23.999 ug/L
 RT: 11.65 min Scan# 1599
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Tgt Ion	Ratio	Lower	Upper
112	100		
77	70.0	57.0	85.6
114	31.6	22.5	41.9

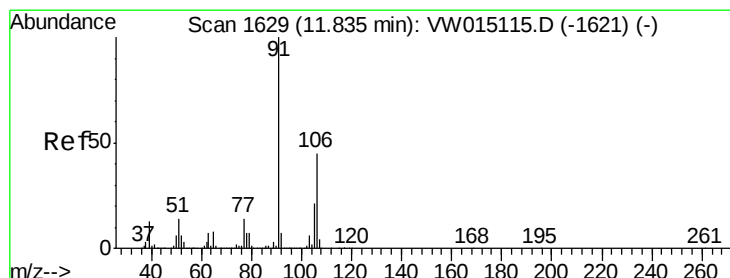
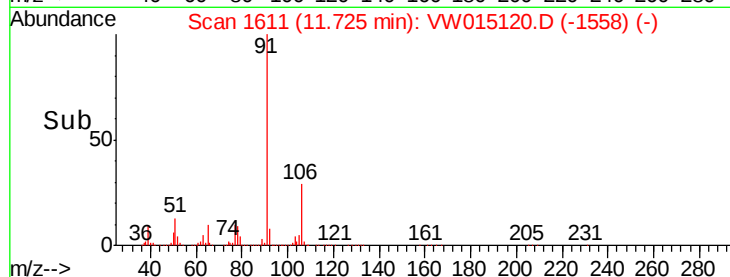
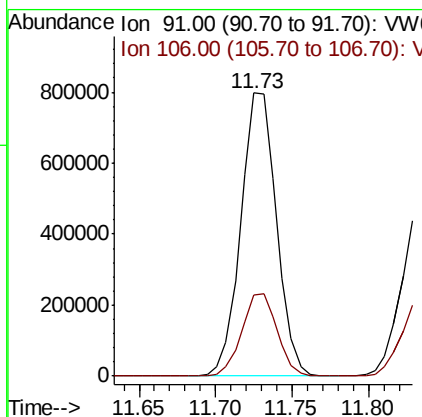
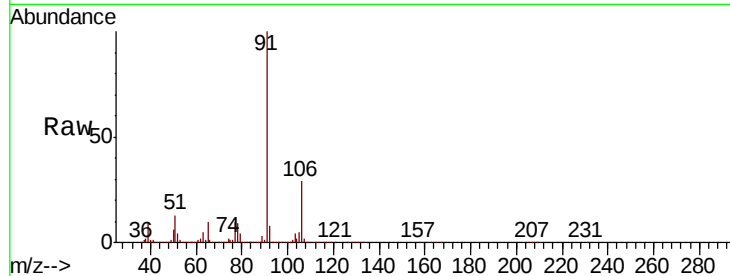




#53
Ethylbenzene
Concen: 25.611 ug/L
RT: 11.73 min Scan# 1611
Delta R.T. -0.01 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

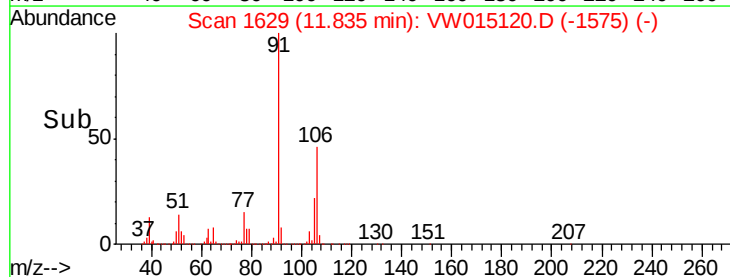
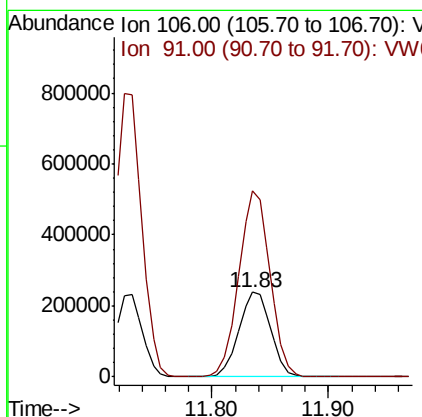
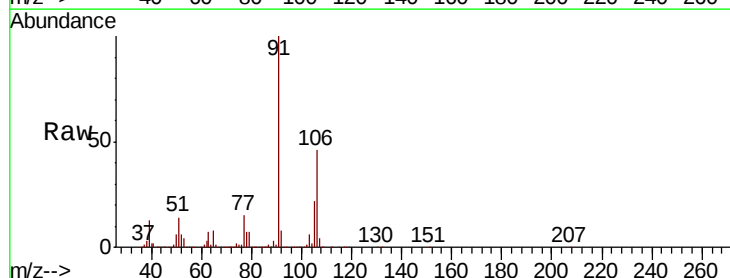
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

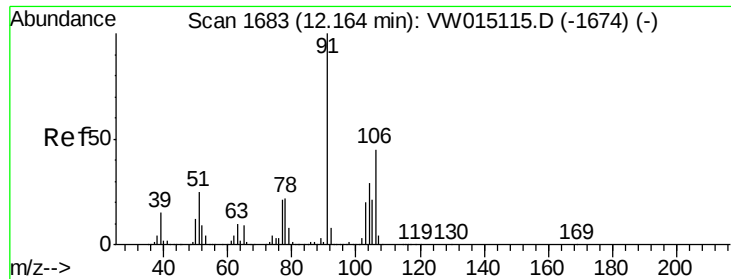
Tot Ion: 91 Resp: 1291686
Ion Ratio Lower Upper
91 100
106 28.6 20.1 37.3



#54
m,p-Xylene
Concen: 25.712 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

Tgt Ion: 106 Resp: 453706
Ion Ratio Lower Upper
106 100
91 218.6 151.4 281.2

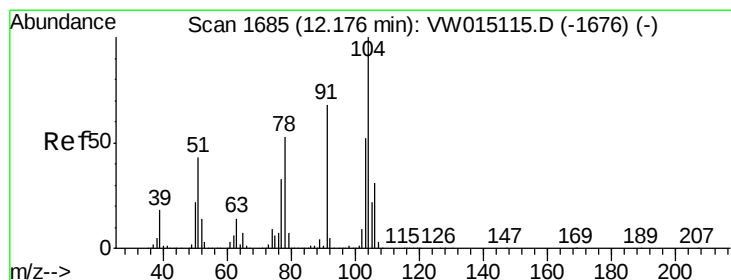
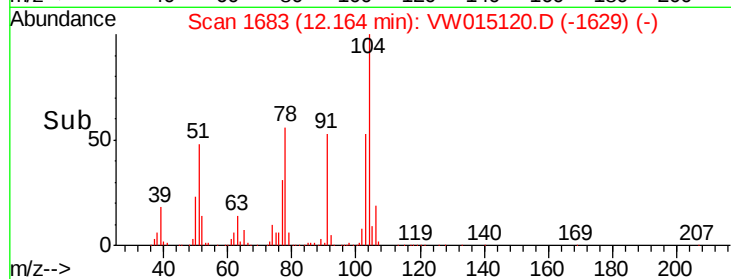
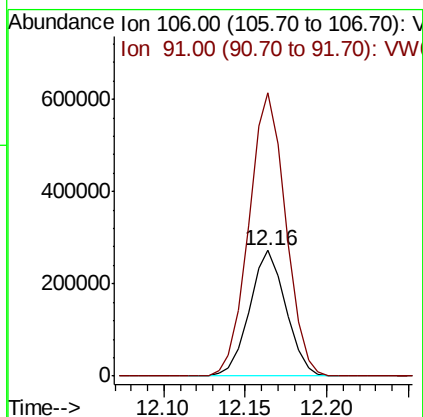
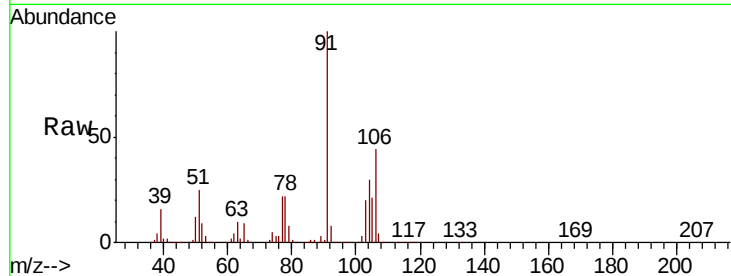




#55
o-xylene
Concen: 25.594 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

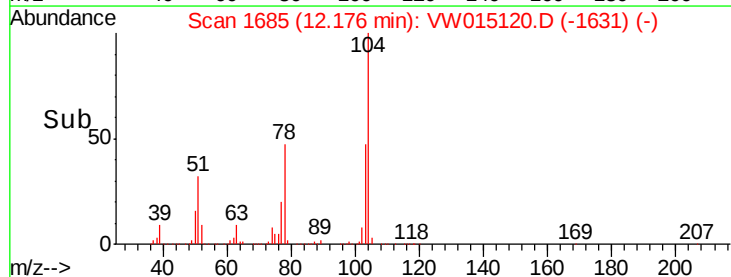
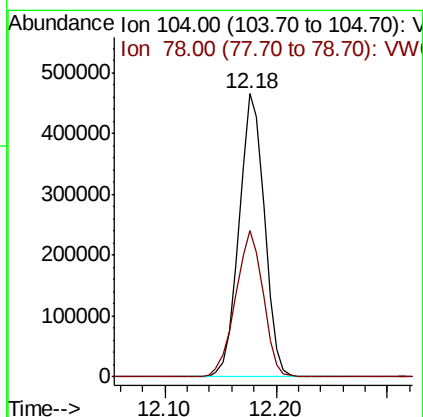
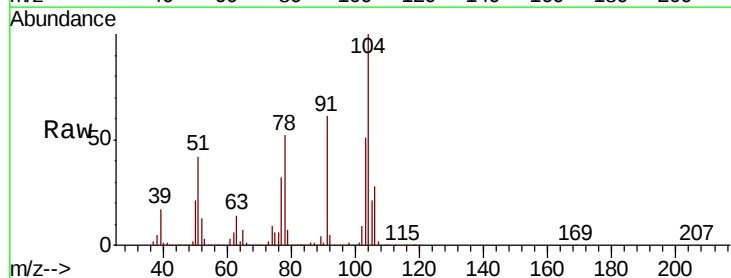
Instrument :
MSVOA_W
ClientSampled :
VSTD02515

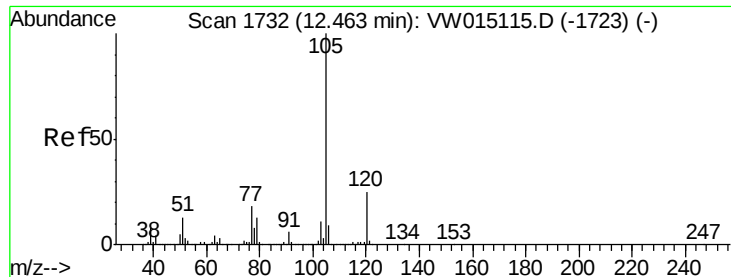
Tot Ion:106 Resp: 420801
Ion Ratio Lower Upper
106 100
91 225.9 162.5 301.9



#56
Styrene
Concen: 26.159 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW015120.D
Acq: 12 Mar 2020 15:49

Tgt Ion:104 Resp: 736662
Ion Ratio Lower Upper
104 100
78 51.9 35.6 66.0





#57

Isopropylbenzene

Concen: 26.260 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

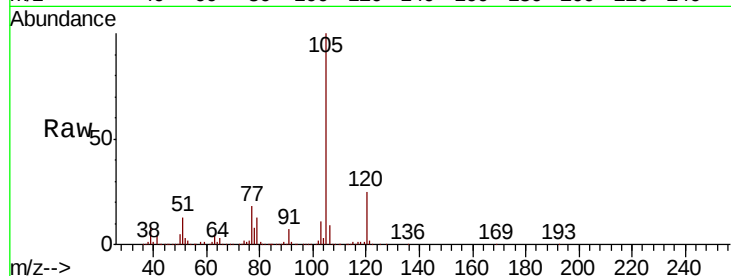
Tot Ion:105 Resp: 1175839

Ion Ratio Lower Upper

105 100

120 24.8 19.8 29.8

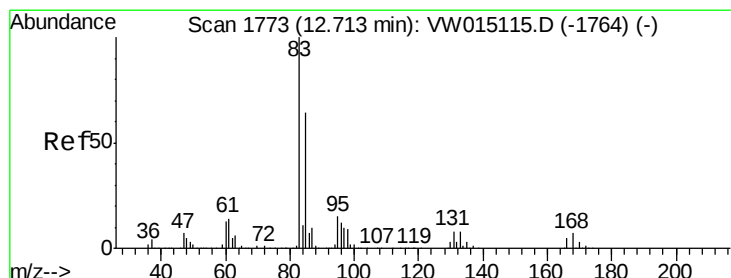
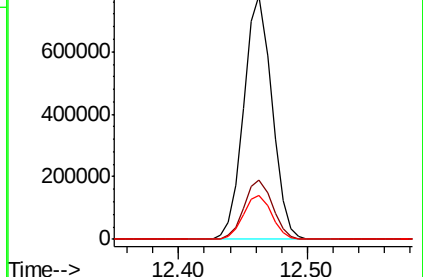
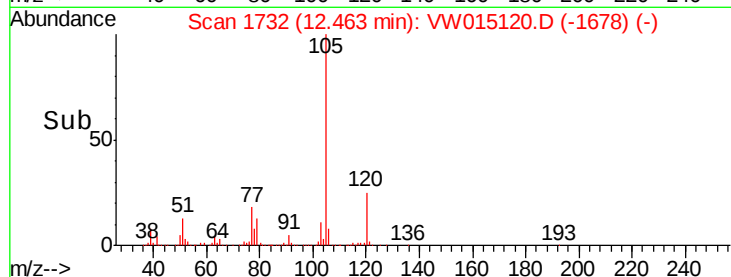
77 18.2 14.4 21.6



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: 24.655 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

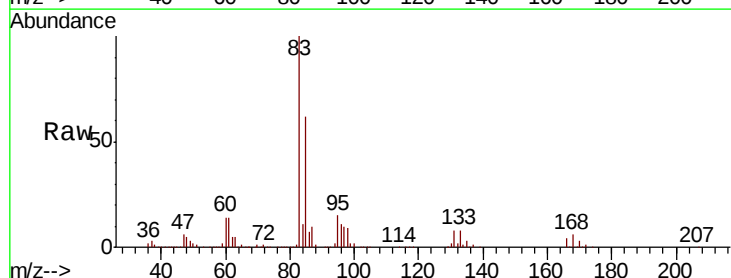
Tgt Ion: 83 Resp: 231122

Ion Ratio Lower Upper

83 100

85 62.2 44.2 82.0

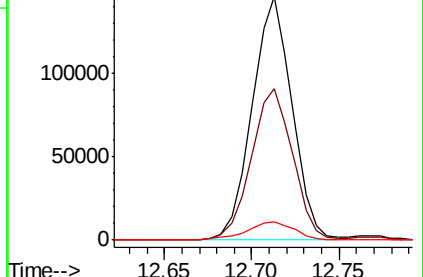
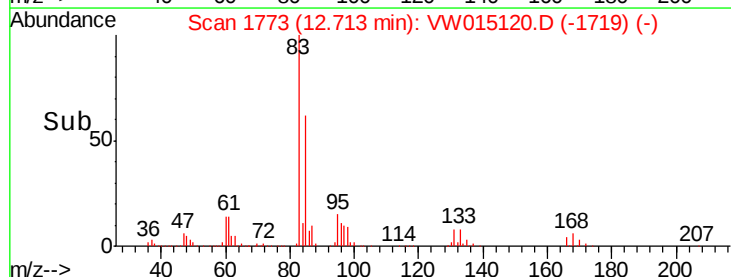
131 7.7 6.3 9.5

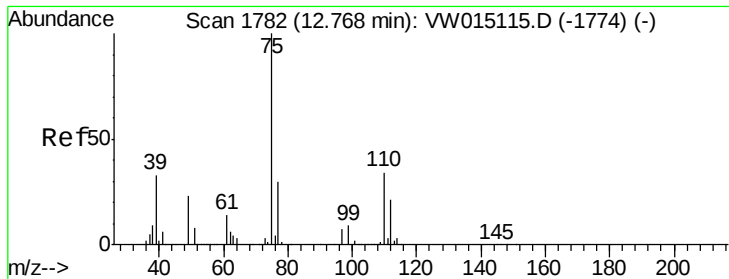


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.000 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

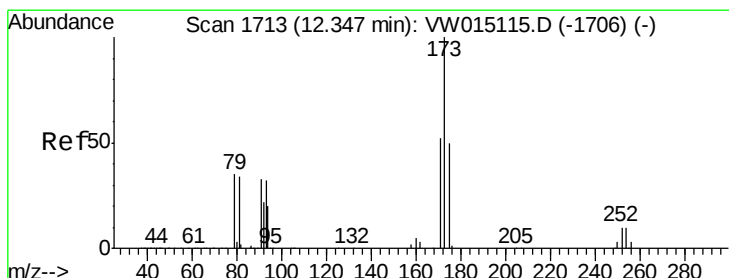
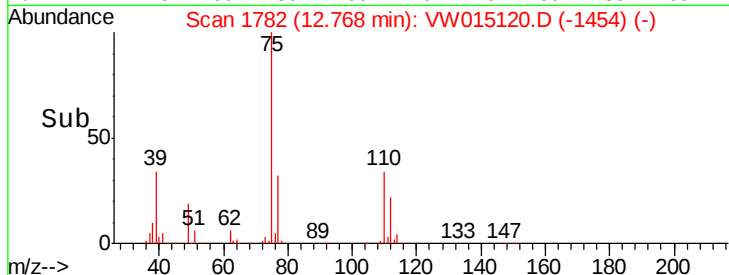
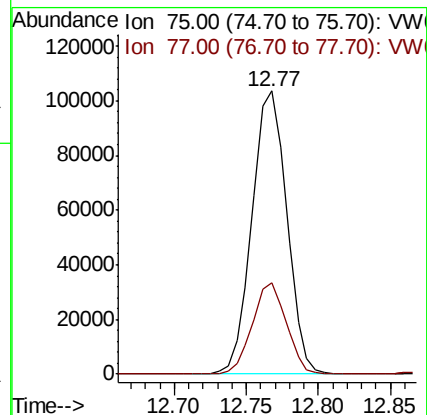
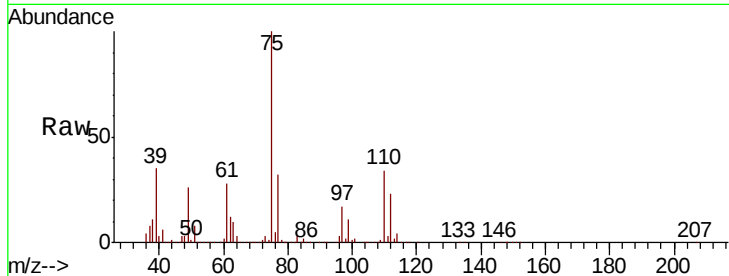
VSTD02515

Tot Ion: 75 Resp: 172923

Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.0



#62

Bromoform

Concen: 23.613 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

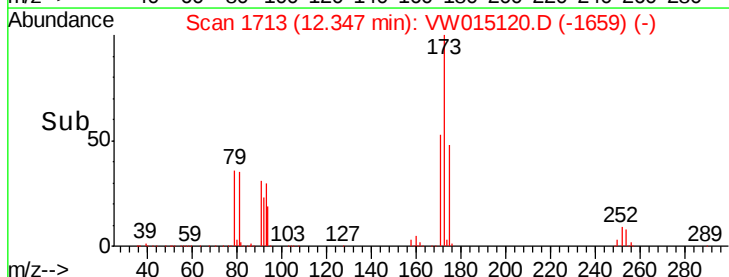
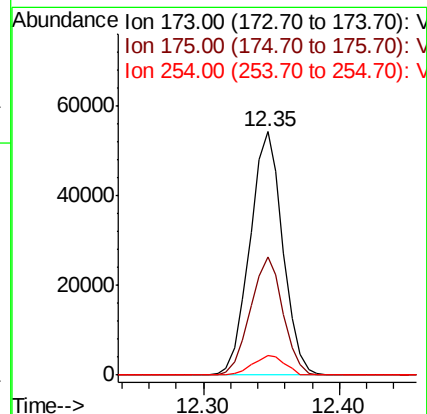
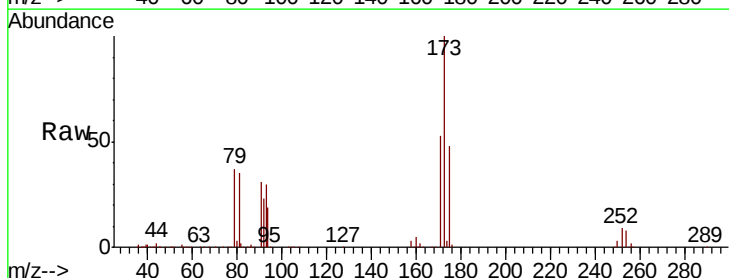
Tgt Ion: 173 Resp: 92159

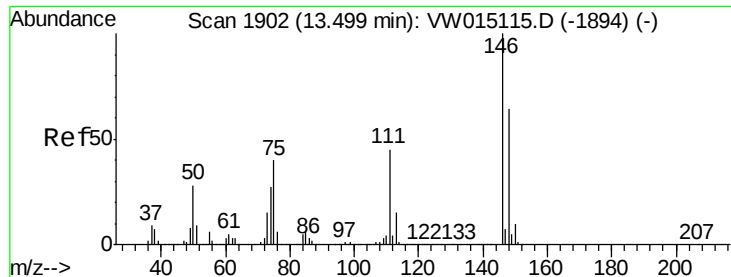
Ion Ratio Lower Upper

173 100

175 47.9 38.7 58.1

254 7.8 7.0 10.4

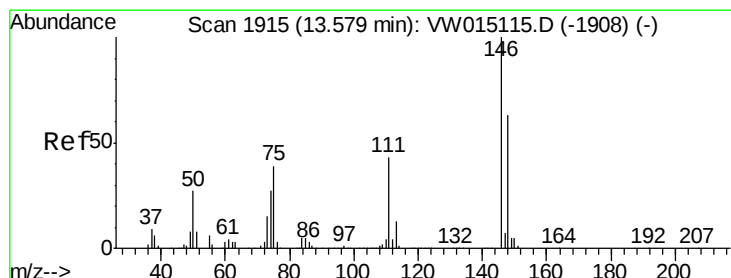
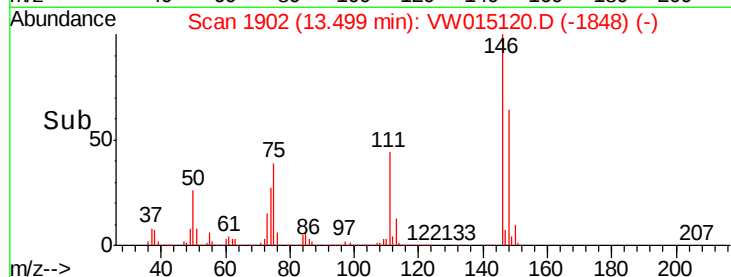
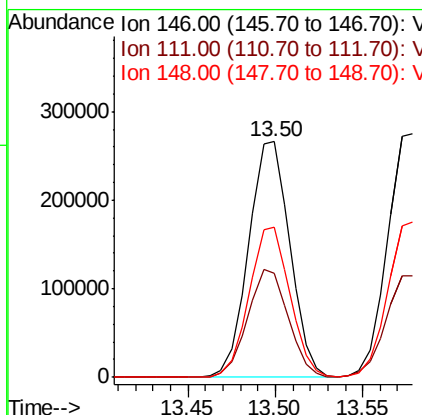
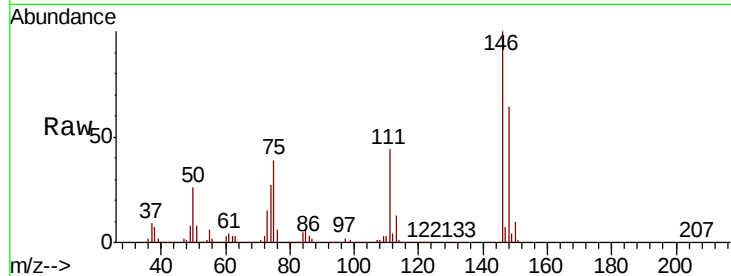




#63
 1,3-Dichlorobenzene
 Concen: 24.212 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

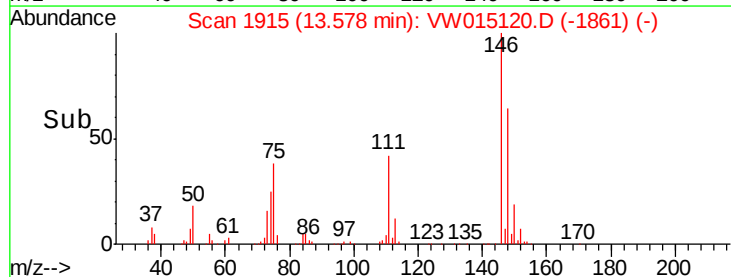
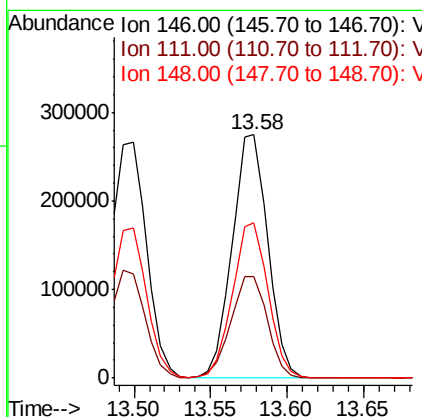
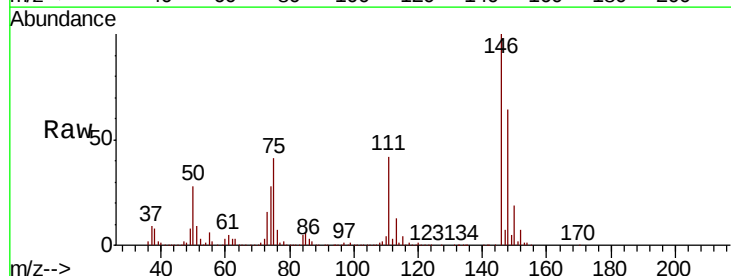
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

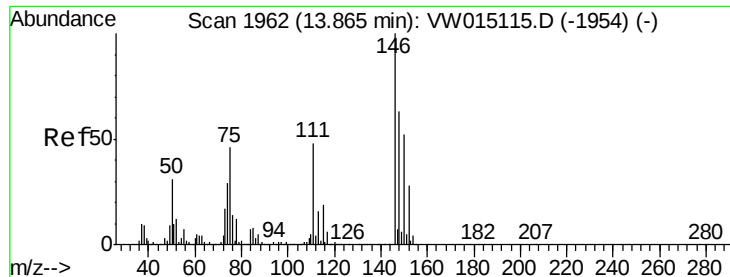
Tot Ion:146 Resp: 438583
 Ion Ratio Lower Upper
 146 100
 111 44.2 30.9 57.3
 148 63.7 44.6 82.8



#64
 1,4-Dichlorobenzene
 Concen: 23.844 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Tgt Ion:146 Resp: 444695
 Ion Ratio Lower Upper
 146 100
 111 41.9 29.9 55.5
 148 63.6 46.1 85.5





#65

1,2-Dichlorobenzene

Concen: 24.311 ug/L

RT: 13.86 min Scan# 1962

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

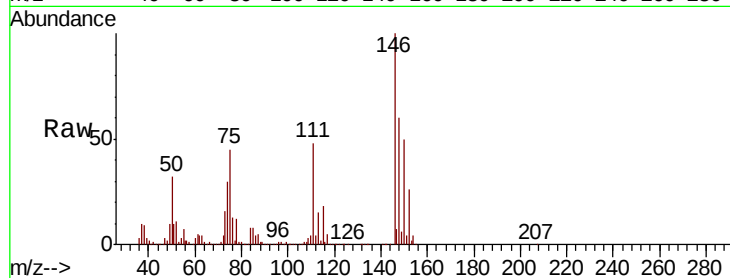
Tot Ion:146 Resp: 398829

Ion Ratio Lower Upper

146 100

111 48.3 37.7 56.5

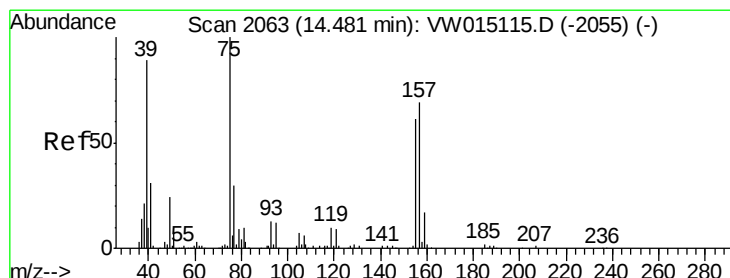
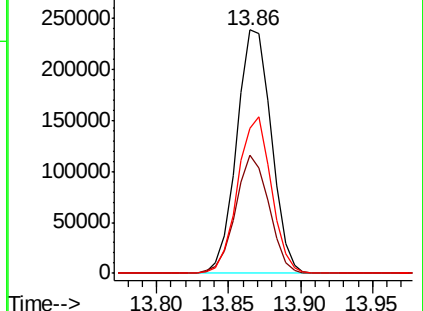
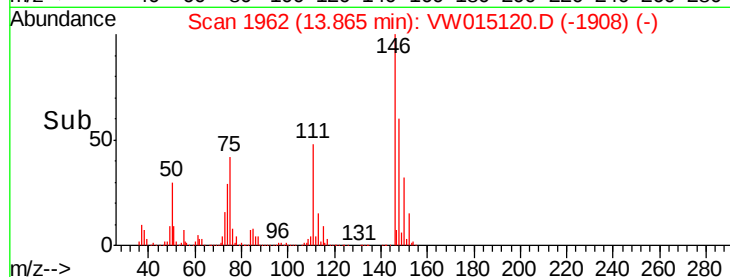
148 59.6 50.0 75.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 23.315 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

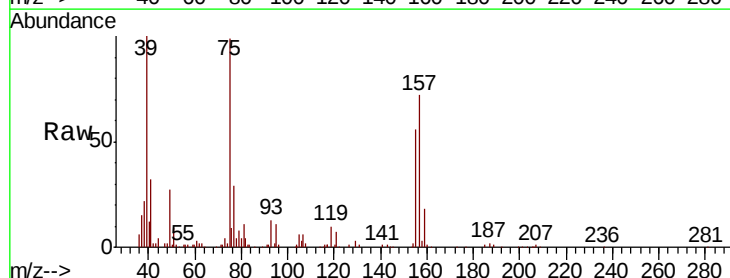
Tgt Ion: 75 Resp: 33767

Ion Ratio Lower Upper

75 100

157 72.1 61.4 92.0

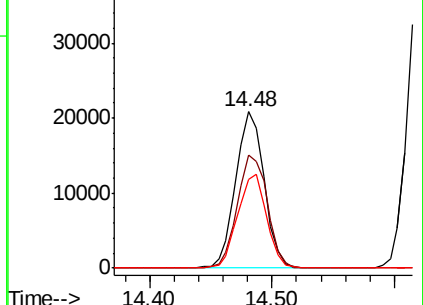
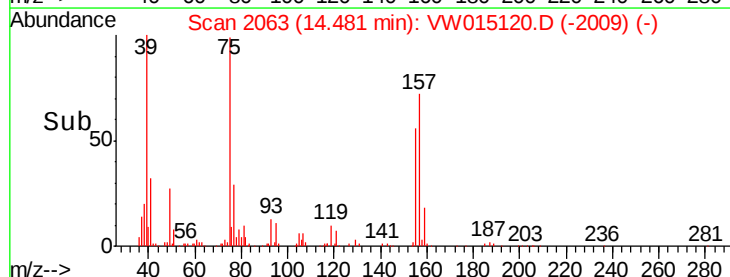
155 56.8 45.0 67.6

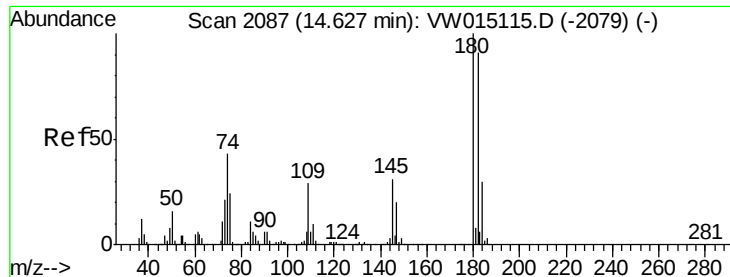


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

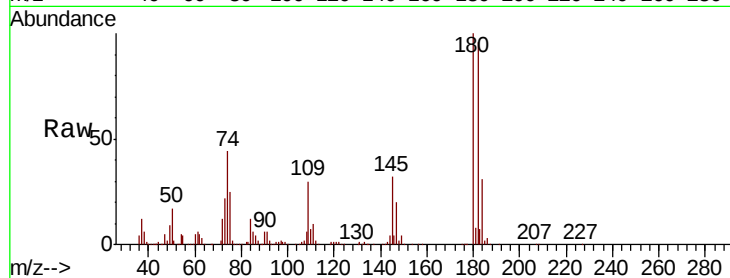




#67
 1,3,5-Trichlorobenzene
 Concen: 23.323 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

Tot Ion	180	Resp	283305
Ion Ratio	100	Lower	Upper
180	100		
182	95.1	75.4	113.0
184	30.1	23.9	35.9
145	32.7	25.4	38.2



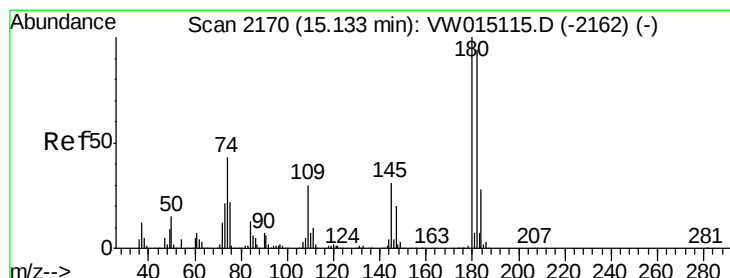
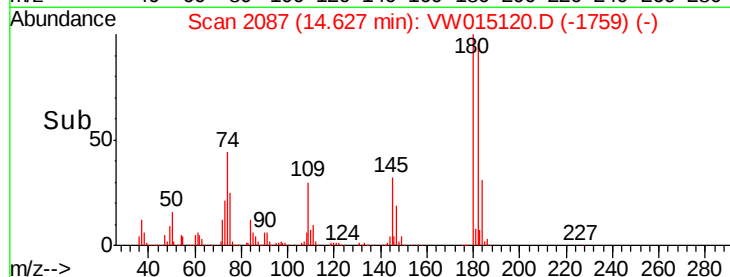
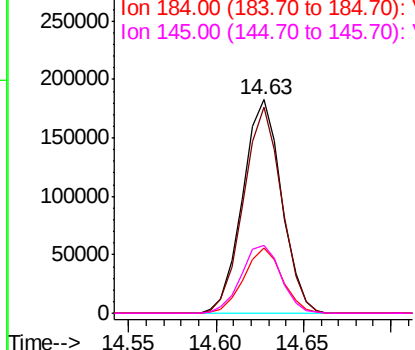
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

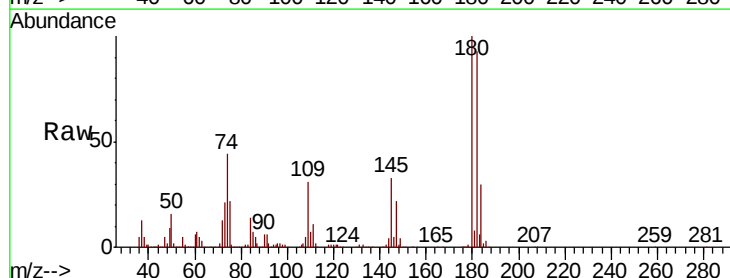
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 23.830 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW015120.D
 Acq: 12 Mar 2020 15:49

Tgt Ion	180	Resp	211557
Ion Ratio	100	Lower	Upper
180	100		
182	93.7	75.7	113.5
145	32.7	25.9	38.9

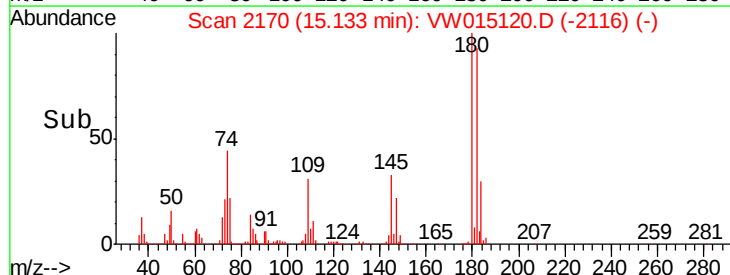
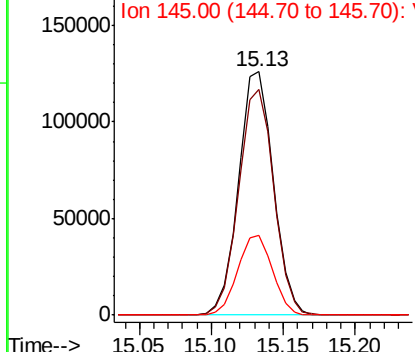


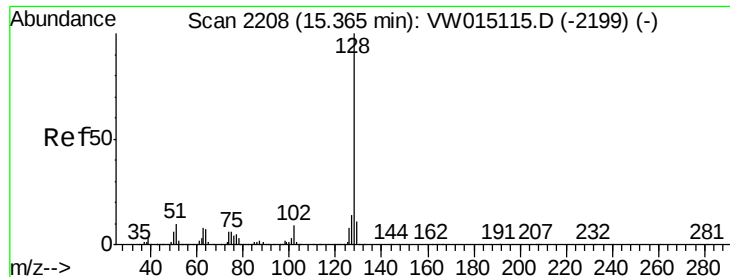
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 24.474 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

Instrument :

MSVOA_W

ClientSampled :

VSTD02515

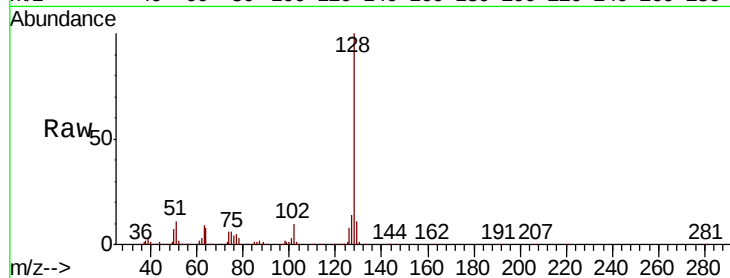
Tot Ion:128 Resp: 192885

Ion Ratio Lower Upper

128 100

129 10.9 8.9 13.3

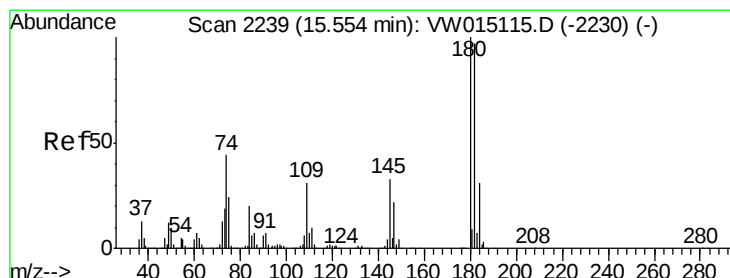
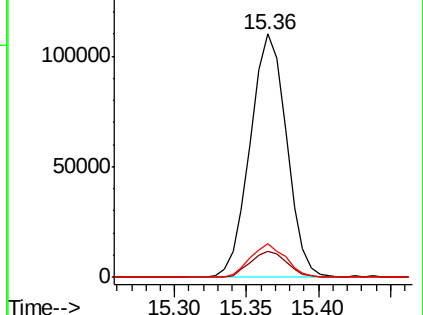
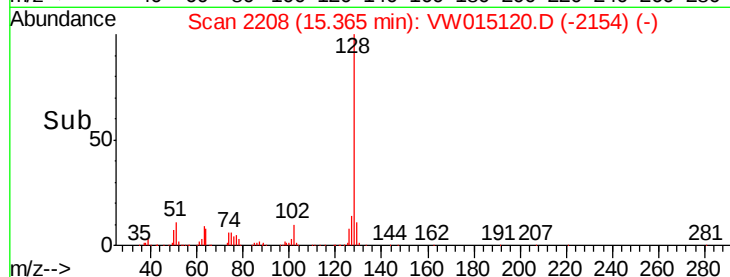
127 13.5 11.1 16.7



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: 23.398 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW015120.D

Acq: 12 Mar 2020 15:49

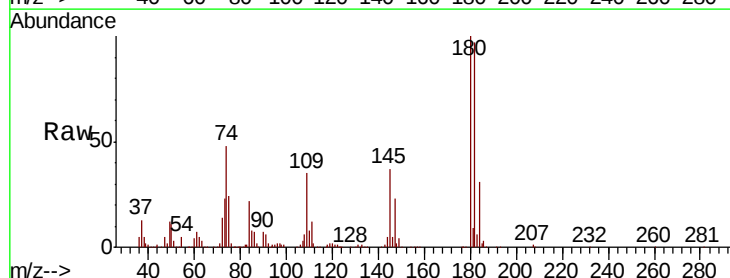
Tgt Ion:180 Resp: 186444

Ion Ratio Lower Upper

180 100

182 95.6 75.8 113.6

145 36.3 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

