

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW103019\
 Data File : VW013847.D
 Acq On : 30 Oct 2019 19:30
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

Quant Time: Oct 31 05:33:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 31 05:29:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	300537	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	295107	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	183618	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	68357	18.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.16%
7) Chloroethane-d5	2.89	69	62716	18.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.88%
10) 1,1-Dichloroethene-d2	4.03	63	170547	20.94	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.76%
20) 2-Butanone-d5	7.08	46	63486	48.14	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.28%
24) Chloroform-d	7.65	84	185790	22.09	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	88.36%
26) 1,2-Dichloroethane-d4	8.30	65	95147	21.64	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.56%
29) Benzene-d6	8.27	84	353645	19.95	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	79.80%
33) 1,2-Dichloropropane-d6	9.27	67	115704	21.85	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	87.40%
37) Toluene-d8	10.32	98	327894	20.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	80.20%
38) trans-1,3-Dichloropropene-	10.58	79	46986	19.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	78.68%
39) 2-Hexanone-d5	10.92	63	51561	50.94	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.88%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	104311	24.05	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.20%
61) 1,2-Dichlorobenzene-d4	13.85	152	134413	20.71	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	82.84%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	80606	23.845	ug/L 93
3) Chloromethane	2.21	50	79768	21.799	ug/L 97
5) Vinyl chloride	2.37	62	130919	28.629	ug/L 99
6) Bromomethane	2.78	94	80368	24.323	ug/L 97
8) Chloroethane	2.93	64	76370	24.713	ug/L 98
9) Trichlorofluoromethane	3.25	101	59090	19.172	ug/L 96
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	131671	27.130	ug/L 99
12) 1,1-Dichloroethene	4.04	96	130715	27.367	ug/L 97
13) Acetone	4.12	43	61882	42.277	ug/L 97
14) Carbon disulfide	4.38	76	369532	27.038	ug/L 99
15) Methyl Acetate	4.67	43	64181	26.835	ug/L 98
16) Methylene chloride	4.92	84	140679	24.445	ug/L 98
17) Methyl tert-butyl Ether	5.43	73	167487	25.343	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	138106	26.157	ug/L 94
19) 1,1-Dichloroethane	6.21	63	240969	26.962	ug/L 99
21) 2-Butanone	7.17	43	93637	50.384	ug/L 99
22) cis-1,2-Dichloroethene	7.16	96	152302	26.873	ug/L 97

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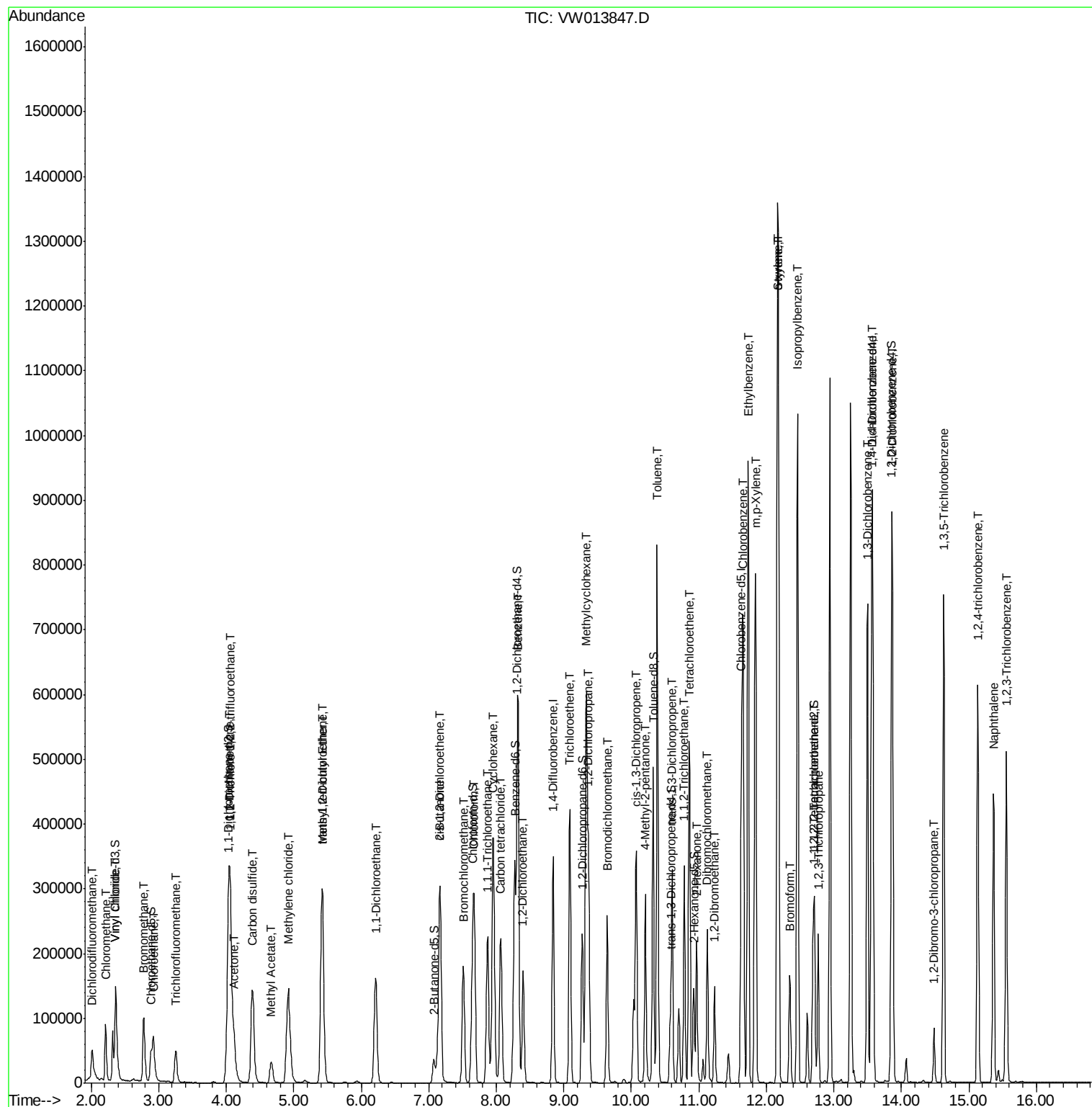
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	68031	26.558	ug/L	94
25) Chloroform	7.68	83	242266	26.986	ug/L	99
27) 1,2-Dichloroethane	8.40	62	157548	27.381	ug/L	99
30) Cyclohexane	7.95	56	232674	26.913	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	187916	27.301	ug/L	100
32) Carbon tetrachloride	8.07	117	182402	27.214	ug/L	100
34) Benzene	8.32	78	565220	26.694	ug/L	100
35) Trichloroethene	9.09	95	145405	26.765	ug/L	100
36) Methylcyclohexane	9.34	83	257045	26.844	ug/L	99
40) 1,2-Dichloropropane	9.37	63	140530	27.144	ug/L	99
41) Bromodichloromethane	9.65	83	177622	28.000	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	216285	26.460	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	188149	53.265	ug/L	100
44) Toluene	10.38	91	619347	27.225	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	177183	26.854	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	107227	26.854	ug/L	98
47) Tetrachloroethene	10.86	164	134447	27.036	ug/L	96
49) 2-Hexanone	10.97	43	135708	54.154	ug/L	99
50) Dibromochloromethane	11.13	129	129240	27.426	ug/L	95
51) 1,2-Dibromoethane	11.23	107	104758	26.980	ug/L	100
52) Chlorobenzene	11.66	112	395234	27.153	ug/L	99
53) Ethylbenzene	11.73	91	692363	27.545	ug/L	100
54) m,p-Xylene	11.84	106	269774	27.774	ug/L	93
55) o-xylene	12.16	106	254778	27.640	ug/L	98
56) Styrene	12.18	104	443382	28.119	ug/L	100
57) Isopropylbenzene	12.46	105	686222	27.755	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	131170	28.028	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	95802	27.451	ug/L	98
62) Bromoform	12.35	173	82375	26.177	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	331958	26.643	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	330840	26.425	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	301114	26.674	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	20653	26.617	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	254436	27.470	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	216503	27.533	ug/L	99
69) Naphthalene	15.36	128	397196	27.876	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	201388	28.598	ug/L	99

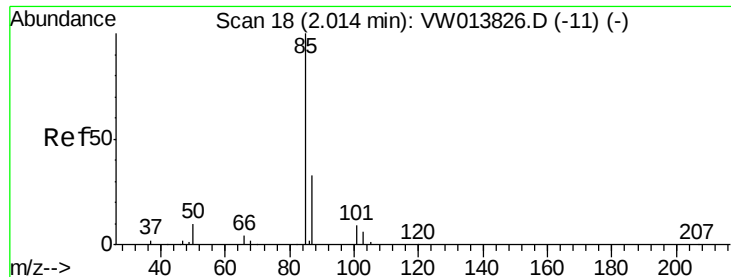
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Quant Title : VOC Analysis
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.845 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

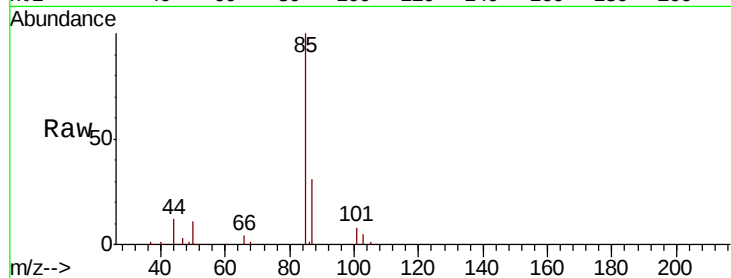
VSTD02511

Tot Ion: 85 Resp: 80606

Ion Ratio Lower Upper

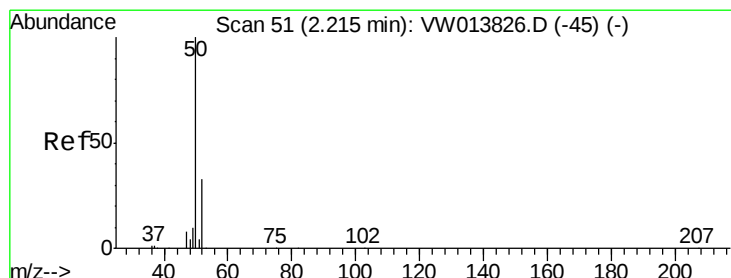
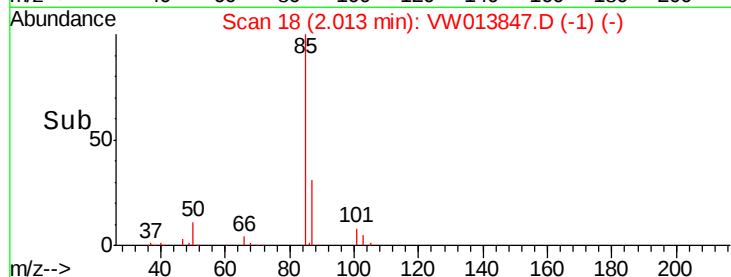
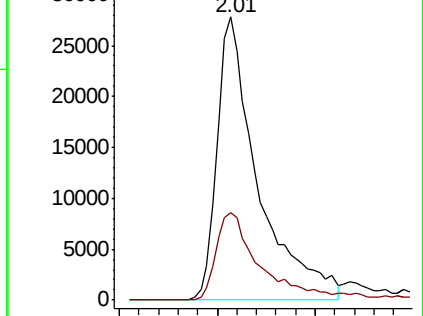
85 100

87 32.3 20.2 37.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.799 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW013847.D

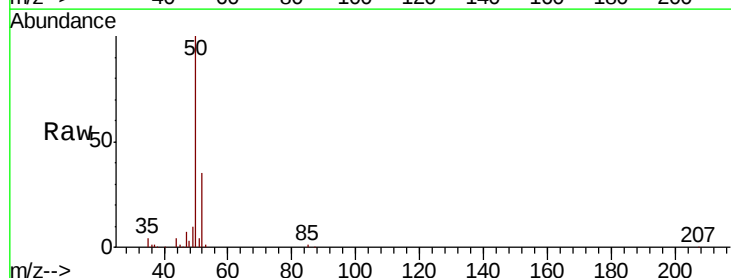
Acq: 30 Oct 2019 19:30

Tgt Ion: 50 Resp: 79768

Ion Ratio Lower Upper

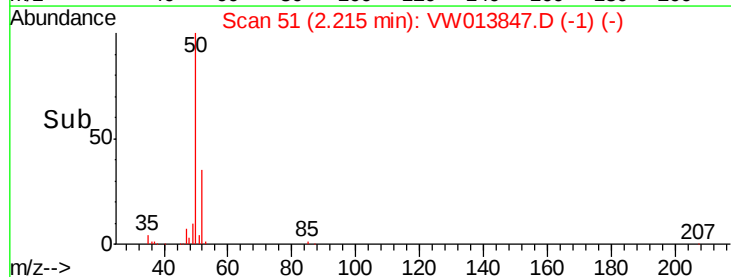
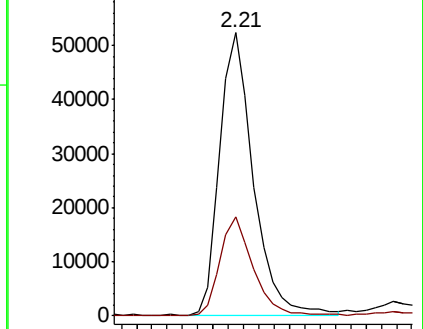
50 100

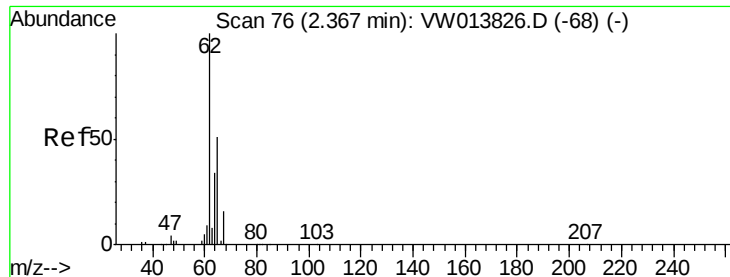
52 35.1 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 28.629 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

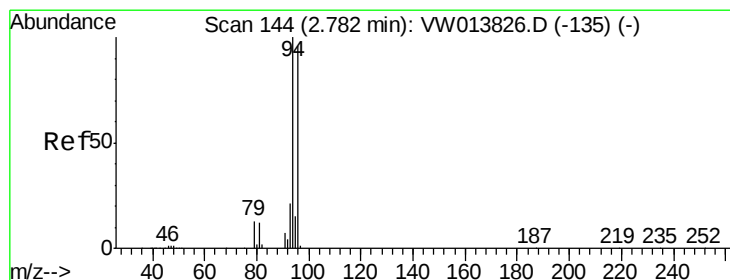
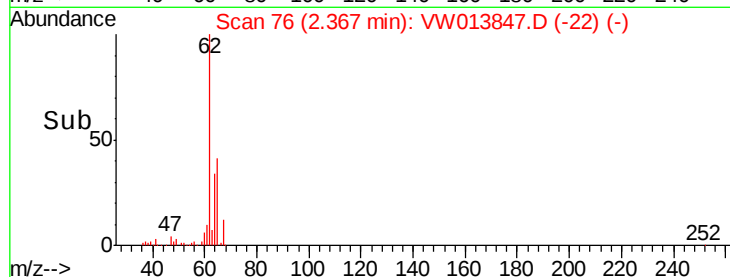
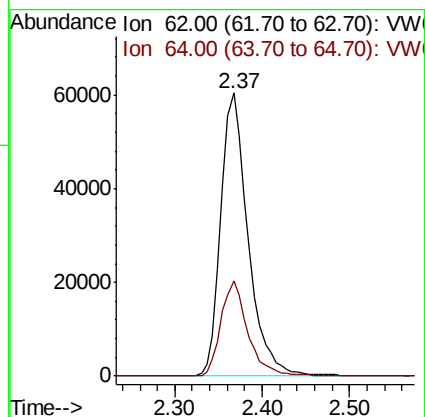
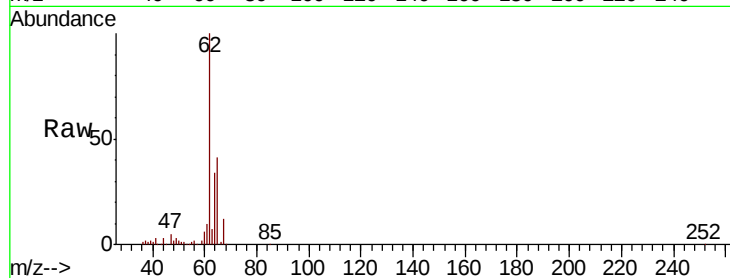
VSTD02511

Tot Ion: 62 Resp: 130919

Ion Ratio Lower Upper

62 100

64 33.8 23.9 44.5



#6

Bromomethane

Concen: 24.323 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW013847.D

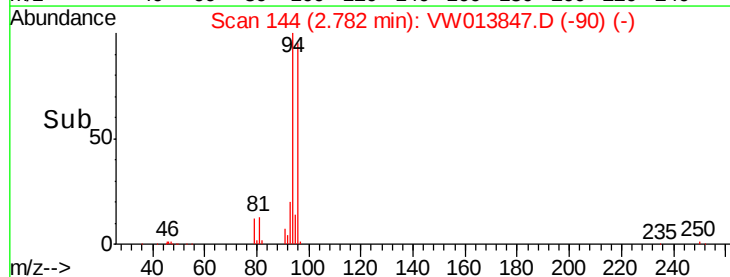
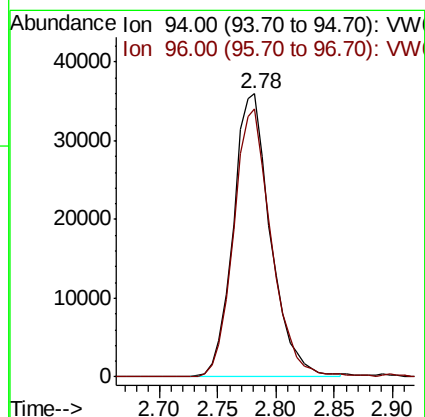
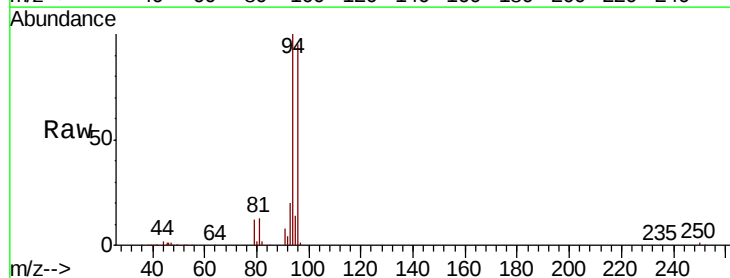
Acq: 30 Oct 2019 19:30

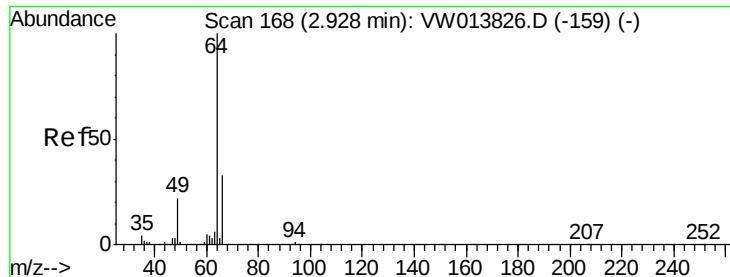
Tgt Ion: 94 Resp: 80368

Ion Ratio Lower Upper

94 100

96 95.7 9.3 176.9

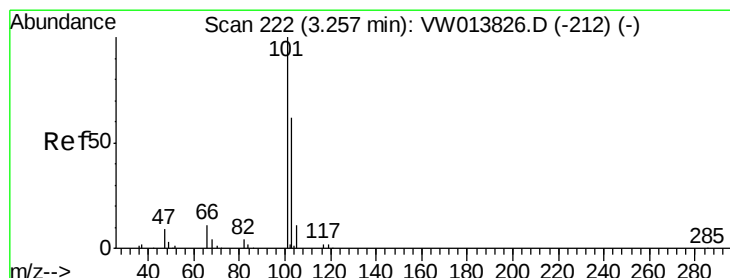
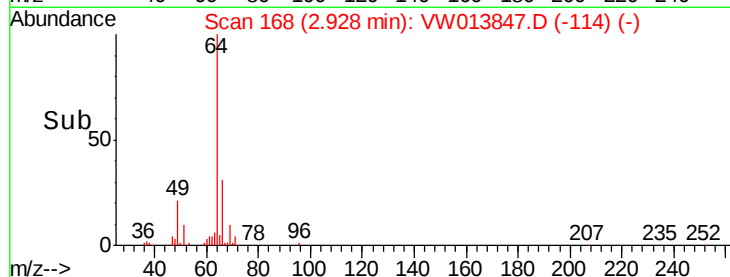
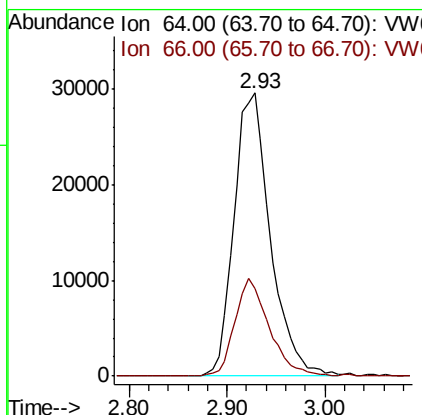
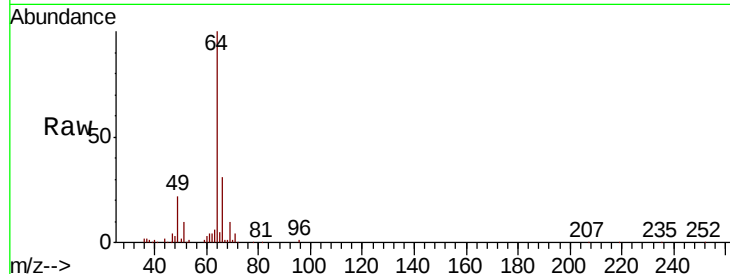




#8
Chloroethane
Concen: 24.713 ug/L
RT: 2.93 min Scan# 168
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

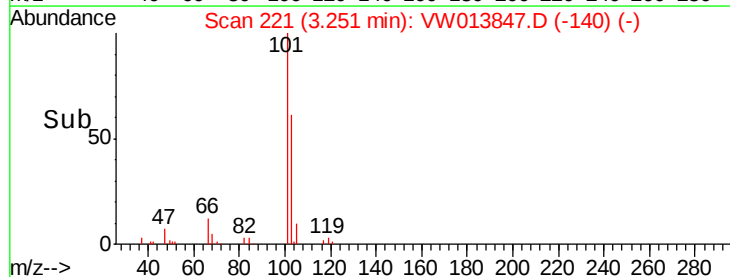
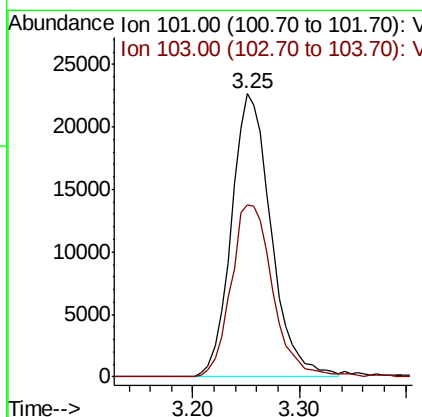
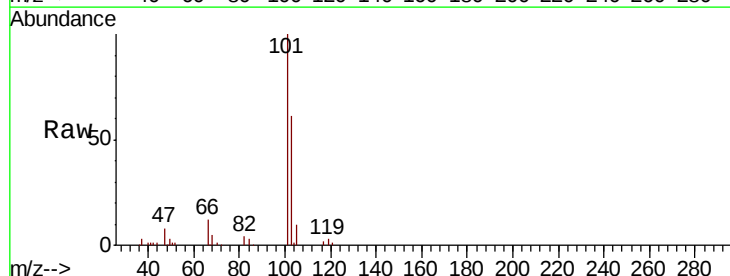
Instrument :
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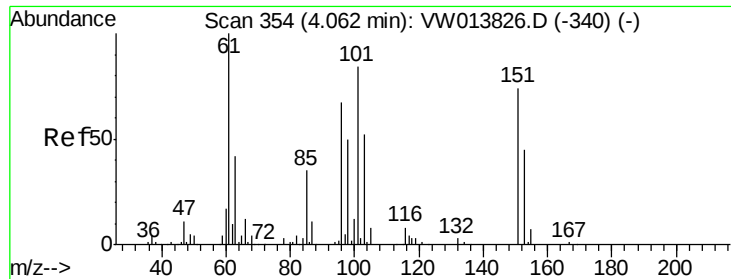
Tot Ion: 64 Resp: 76370
Ion Ratio Lower Upper
64 100
66 30.7 22.2 41.2



#9
Trichlorofluoromethane
Concen: 19.172 ug/L
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Tgt Ion: 101 Resp: 59090
Ion Ratio Lower Upper
101 100
103 63.4 46.5 86.5





#11

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

Concen: 27.130 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

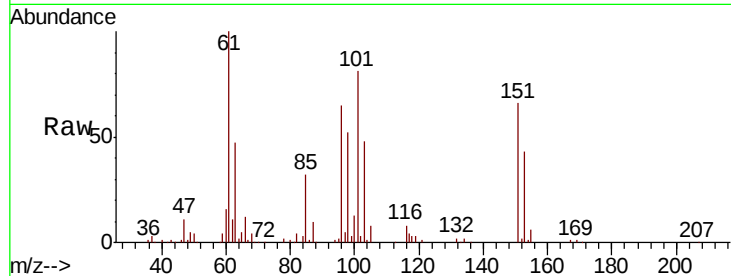
Tot Ion:101 Resp: 131671

Ion Ratio Lower Upper

101 100

85 40.0 32.0 48.0

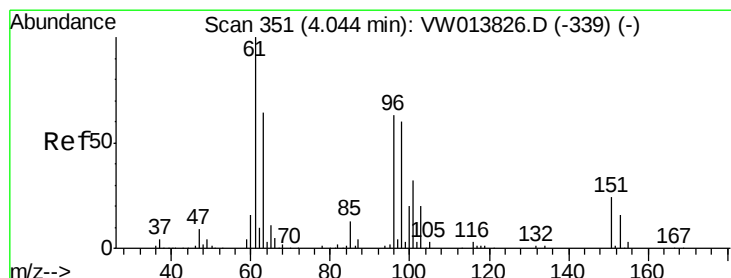
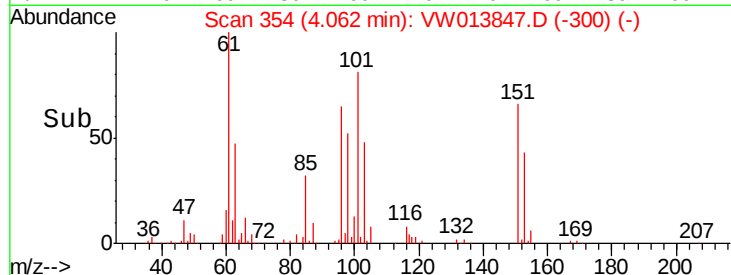
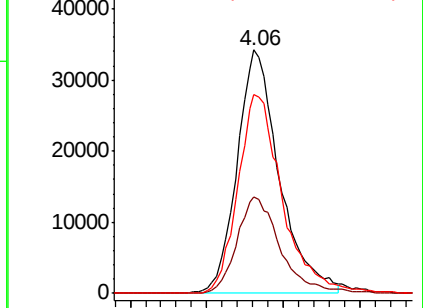
151 84.9 66.9 100.3



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: 27.367 ug/L

RT: 4.04 min Scan# 351

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

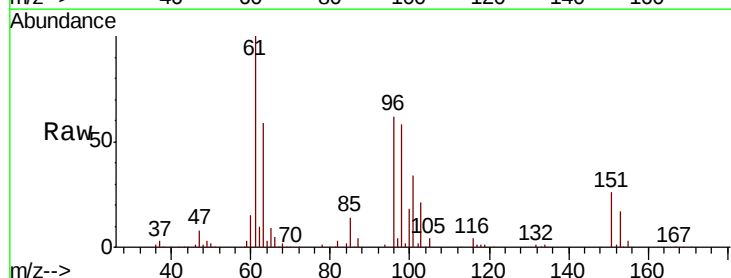
Tgt Ion: 96 Resp: 130715

Ion Ratio Lower Upper

96 100

61 161.1 112.7 209.3

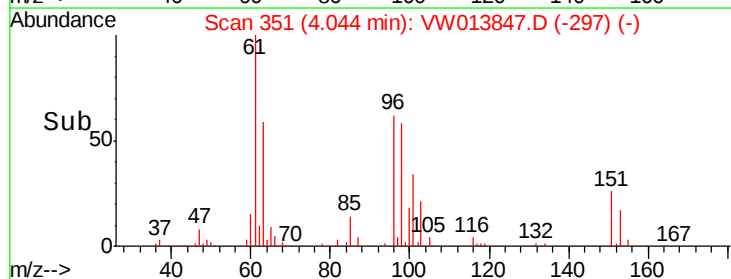
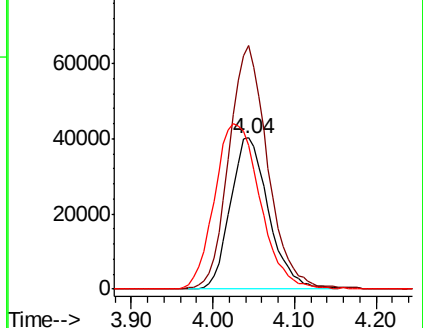
63 95.4 72.8 135.2

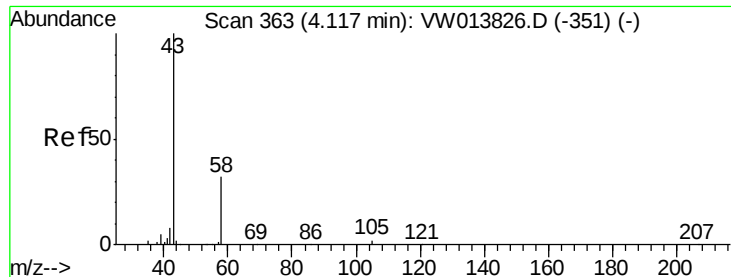


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 42.277 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

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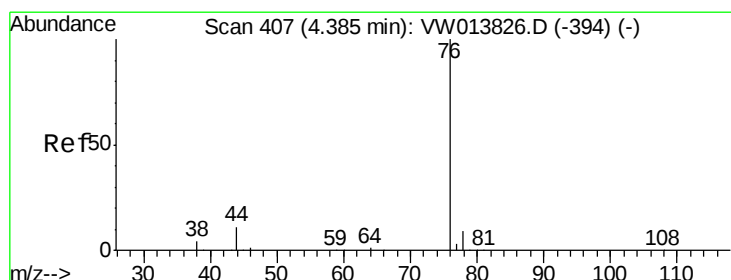
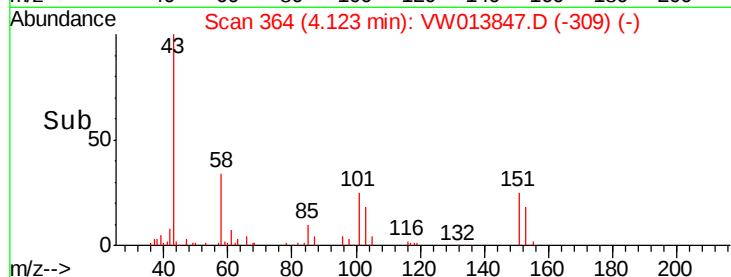
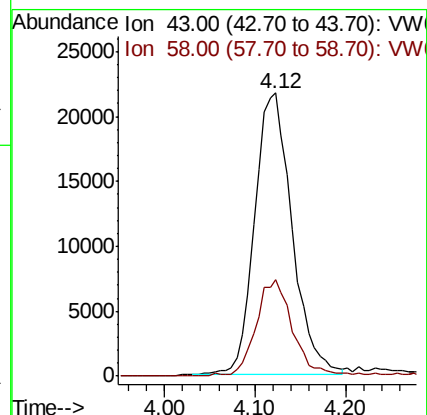
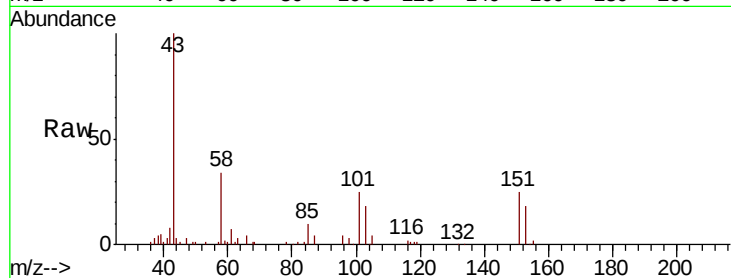
VSTD02511

Tot Ion: 43 Resp: 61882

Ion Ratio Lower Upper

43 100

58 33.2 0.0 70.4



#14

Carbon disulfide

Concen: 27.038 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW013847.D

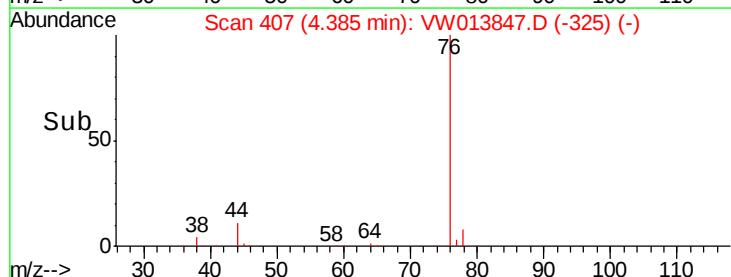
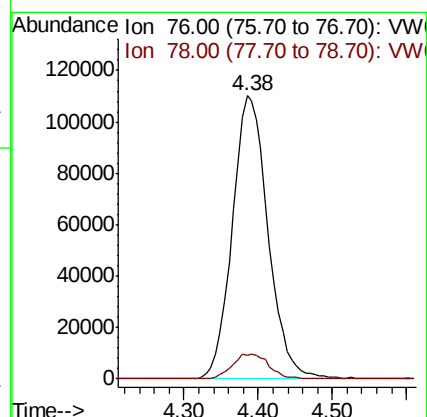
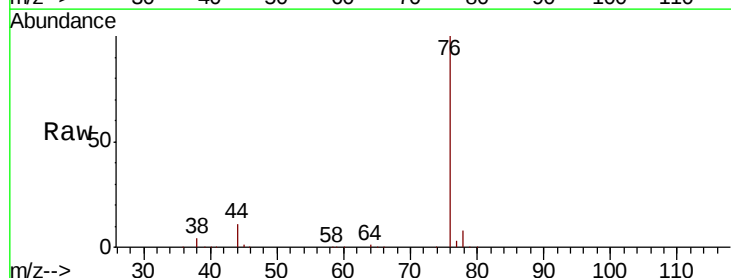
Acq: 30 Oct 2019 19:30

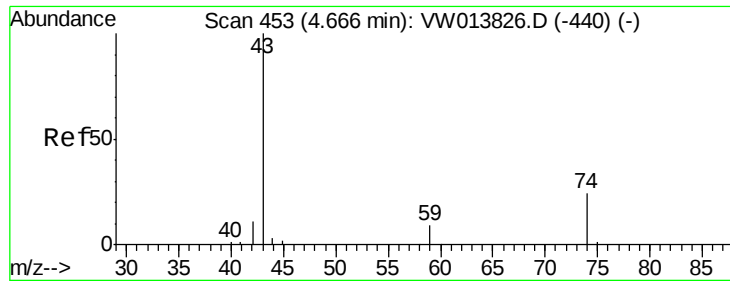
Tgt Ion: 76 Resp: 369532

Ion Ratio Lower Upper

76 100

78 8.4 7.1 10.7

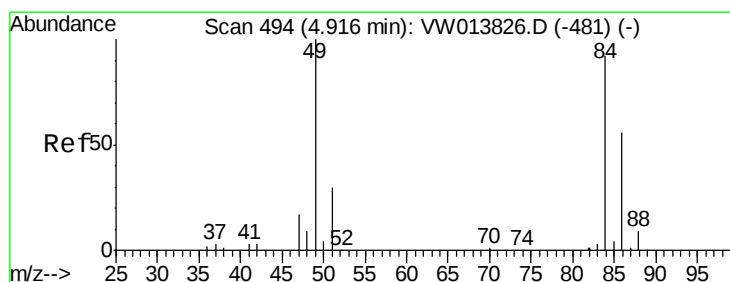
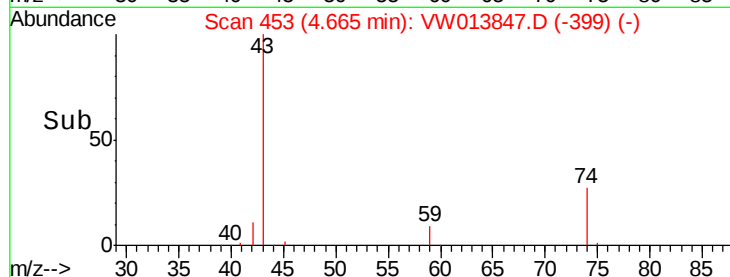
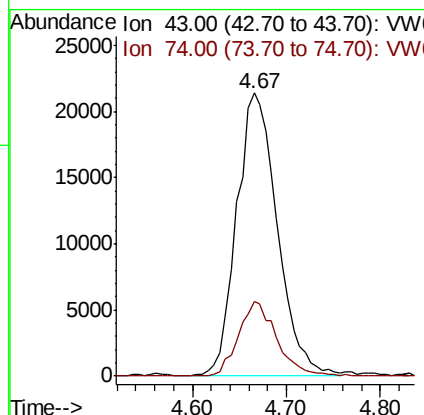
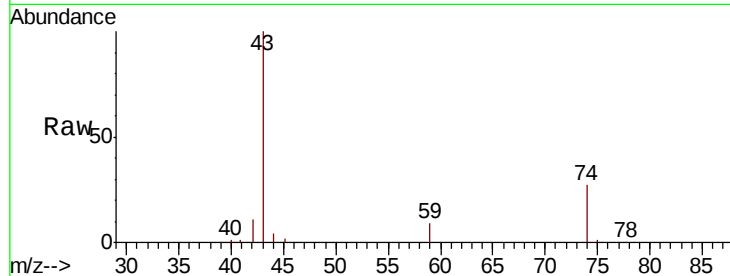




#15
Methyl Acetate
Concen: 26.835 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

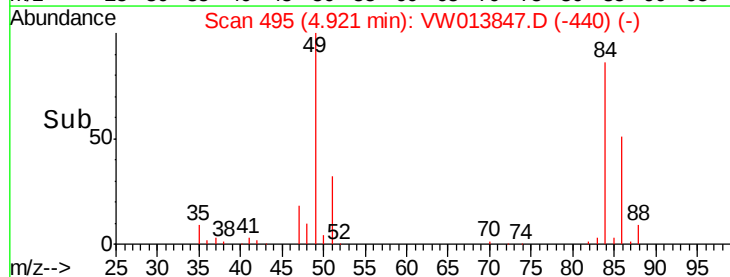
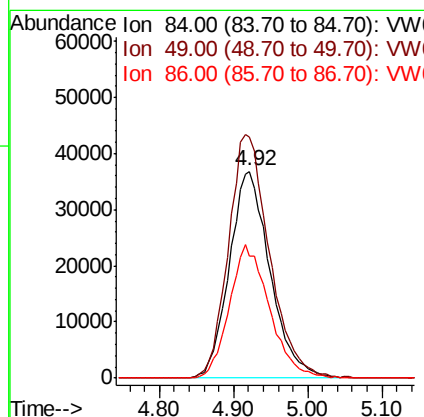
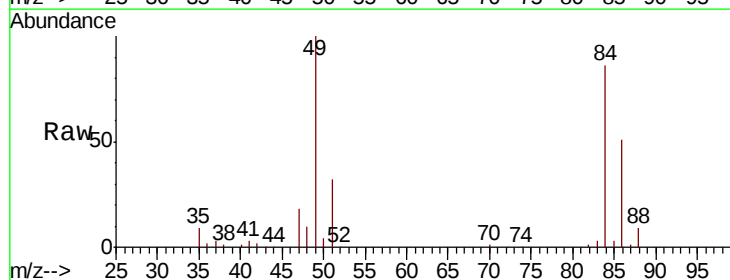
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

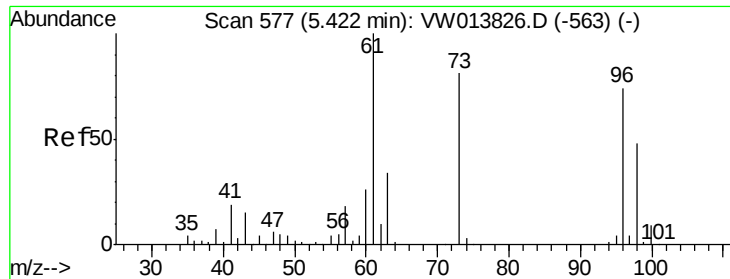
Tot Ion: 43 Resp: 64181
Ion Ratio Lower Upper
43 100
74 24.9 19.2 28.8



#16
Methylene chloride
Concen: 24.445 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Tgt Ion: 84 Resp: 140679
Ion Ratio Lower Upper
84 100
49 116.4 80.2 148.9
86 59.2 42.7 79.3

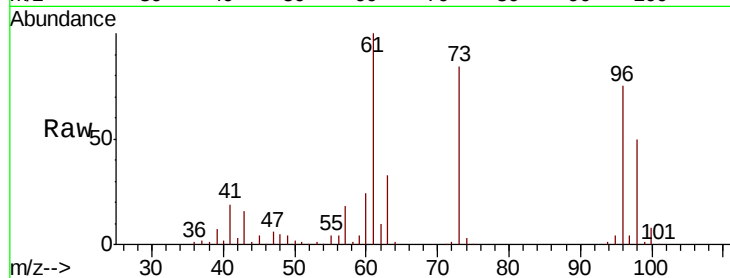




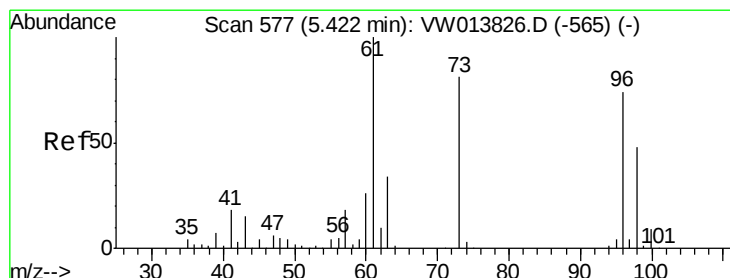
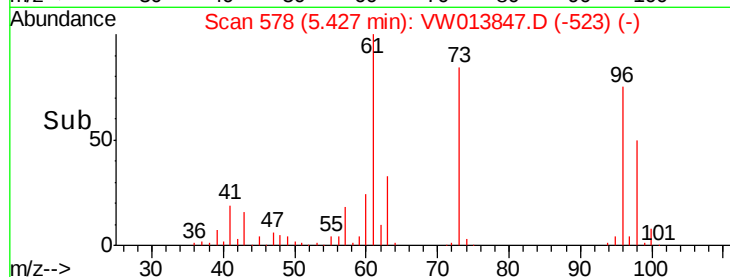
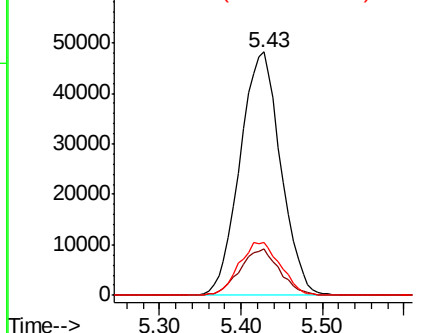
#17
Methvl tert-butvl Ether
Concen: 25.343 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

Tot Ion: 73 Resp: 167487
Ion Ratio Lower Upper
73 100
43 18.8 15.4 23.2
57 22.1 17.7 26.5

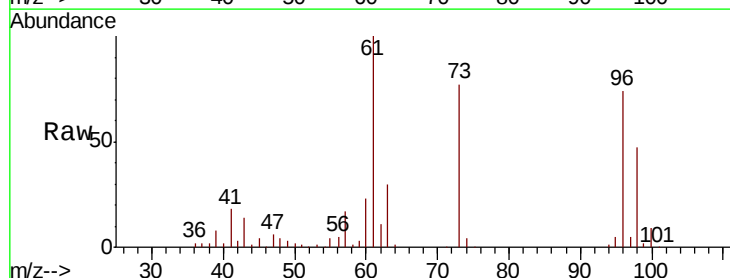


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

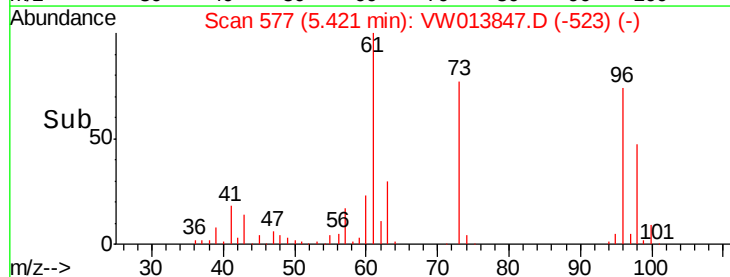
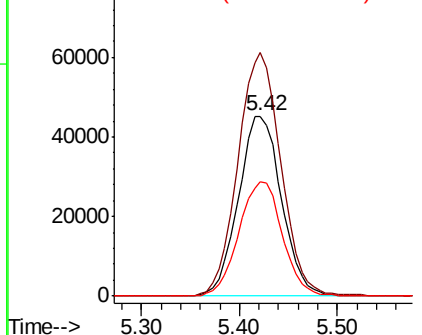


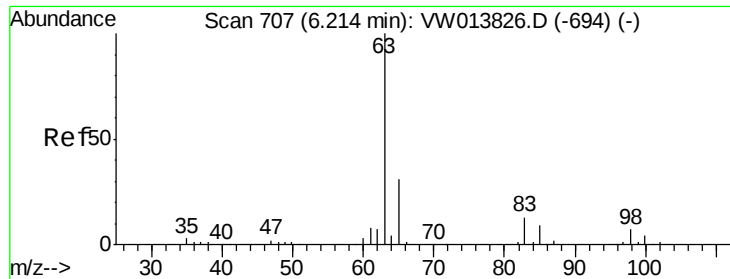
#18
trans-1,2-Dichloroethene
Concen: 26.157 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Tgt Ion: 96 Resp: 138106
Ion Ratio Lower Upper
96 100
61 135.2 88.4 164.2
98 63.5 43.0 79.8



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

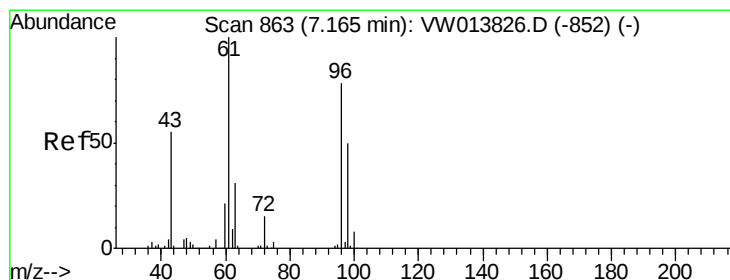
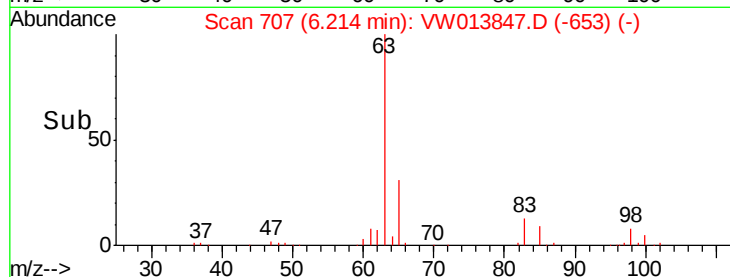
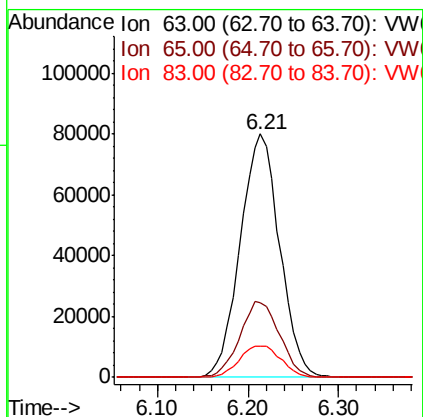
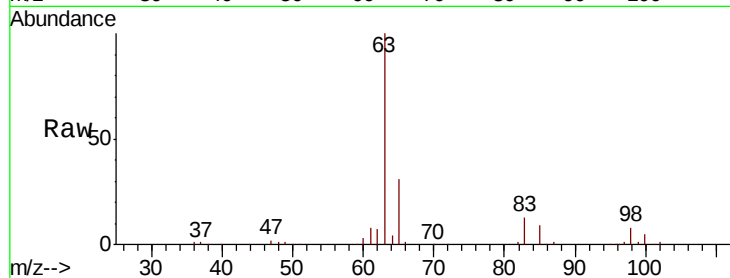




#19
 1,1-Dichloroethane
 Concen: 26.962 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

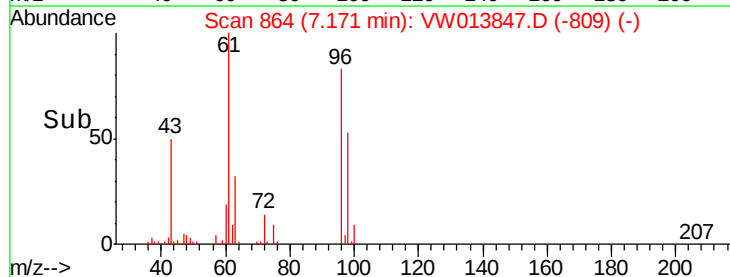
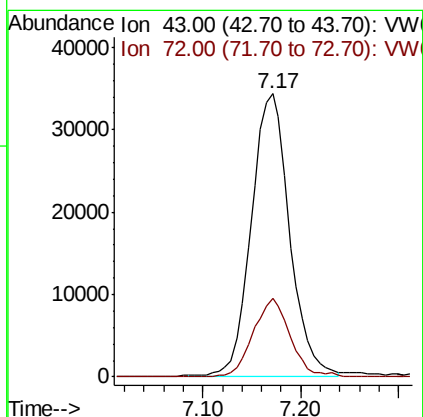
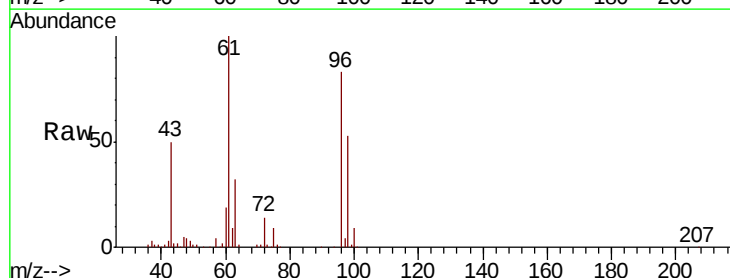
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

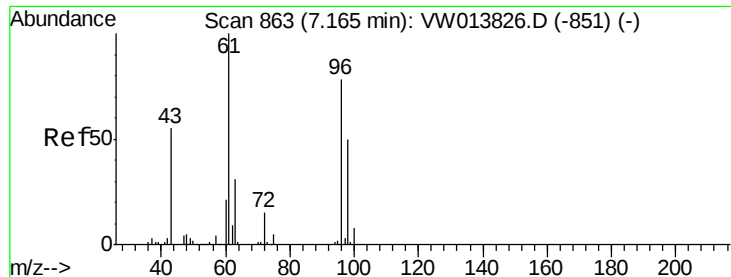
Tot Ion: 63 Resp: 240969
 Ion Ratio Lower Upper
 63 100
 65 30.8 20.9 38.7
 83 12.9 9.2 17.2



#21
 2-Butanone
 Concen: 50.384 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Tgt Ion: 43 Resp: 93637
 Ion Ratio Lower Upper
 43 100
 72 26.7 13.7 41.1



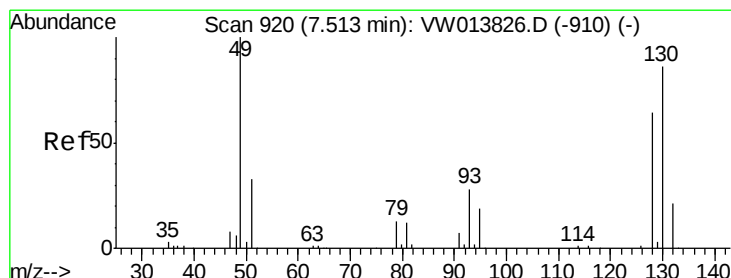
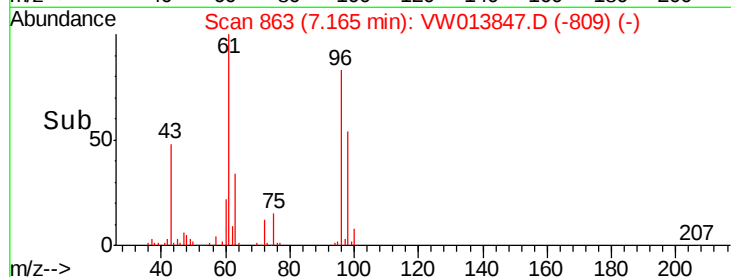
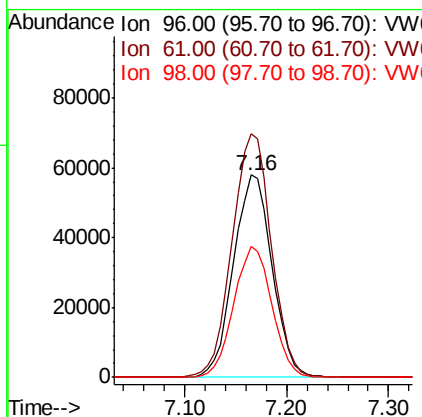
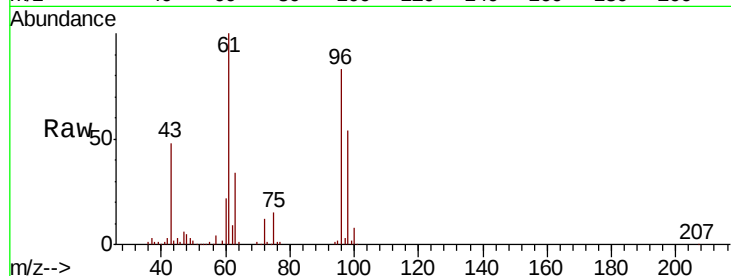


#22

cis-1,2-Dichloroethene
 Concen: 26.873 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

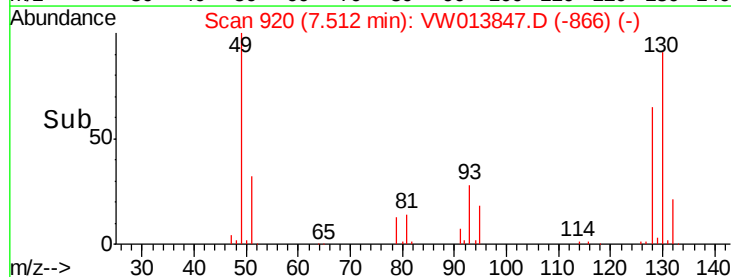
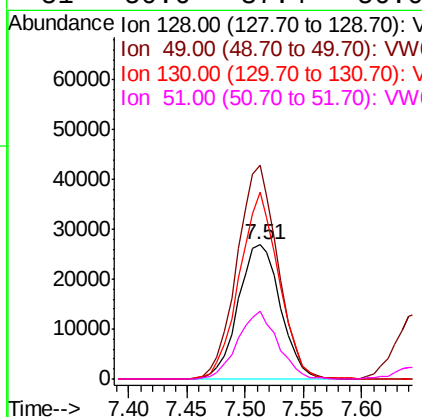
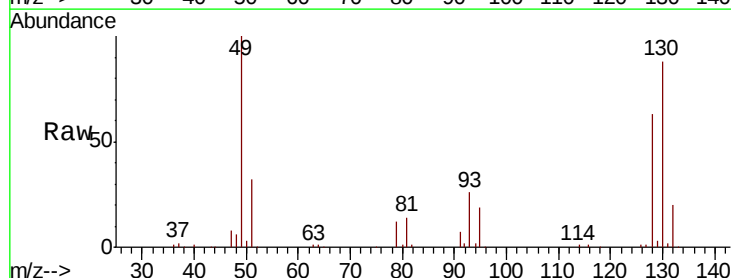
Tot Ion: 96 Resp: 152302
 Ion Ratio Lower Upper
 96 100
 61 120.2 86.2 160.0
 98 64.5 43.0 79.8

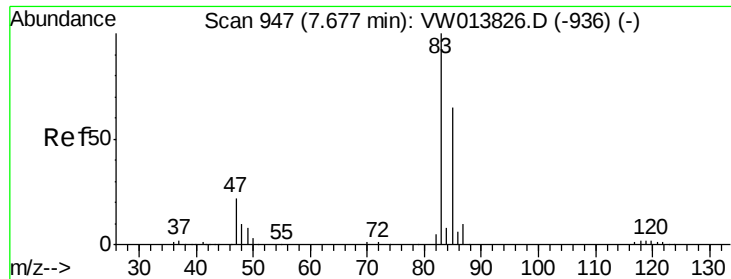


#23

Bromochloromethane
 Concen: 26.558 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Tgt Ion: 128 Resp: 68031
 Ion Ratio Lower Upper
 128 100
 49 159.5 106.3 197.3
 130 139.7 93.2 173.2
 51 50.6 37.4 56.0

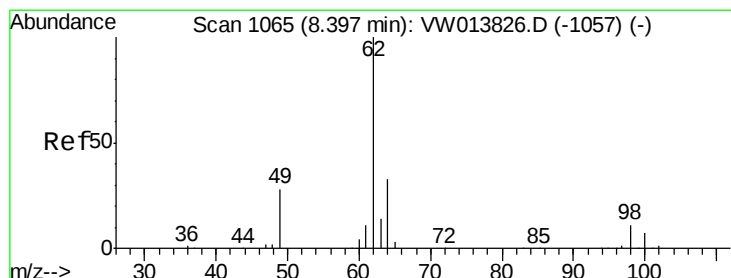
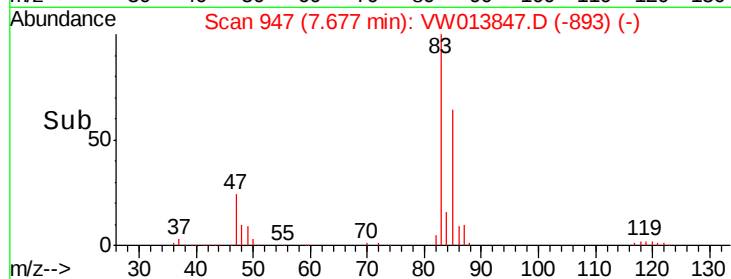
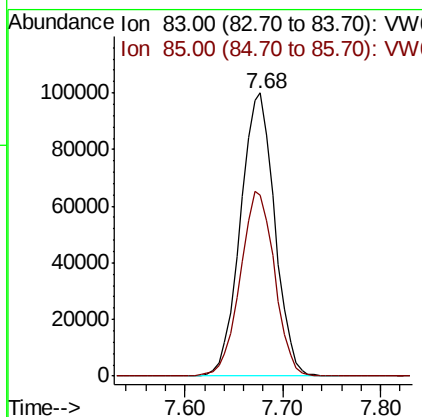
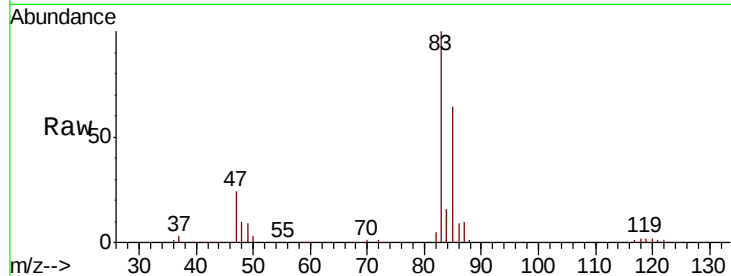




#25
Chloroform
Concen: 26.986 ug/L
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

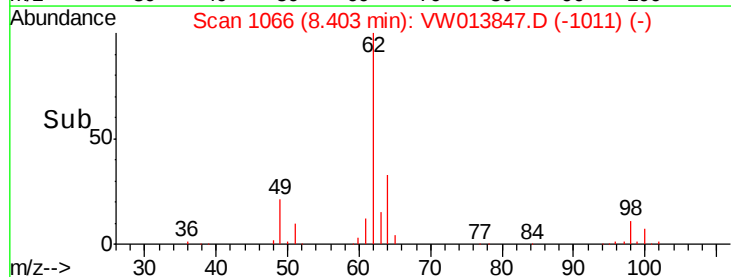
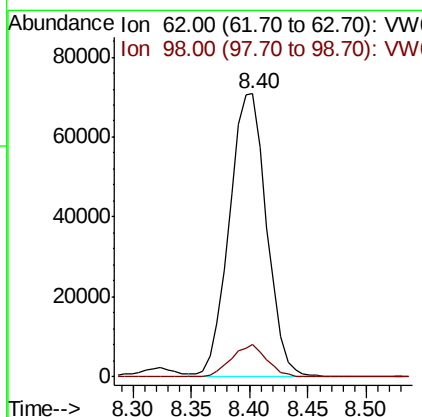
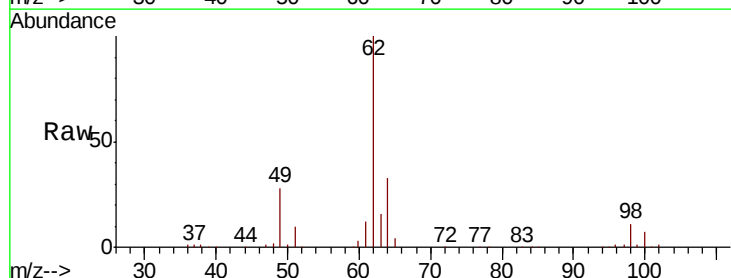
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

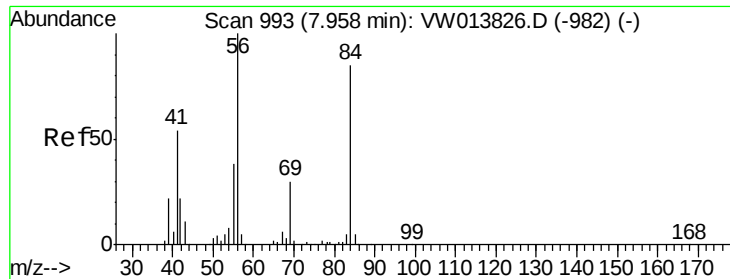
Tot Ion: 83 Resp: 242266
Ion Ratio Lower Upper
83 100
85 65.5 46.1 85.7



#27
1,2-Dichloroethane
Concen: 27.381 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Tgt Ion: 62 Resp: 157548
Ion Ratio Lower Upper
62 100
98 11.5 9.6 14.4

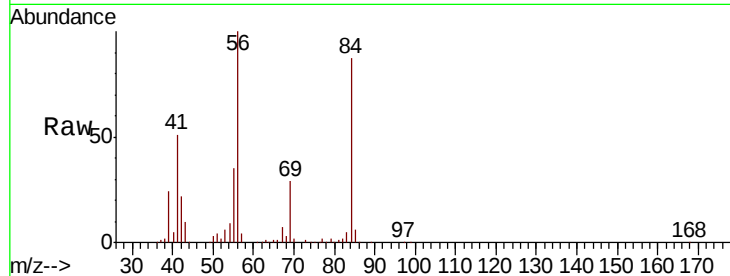




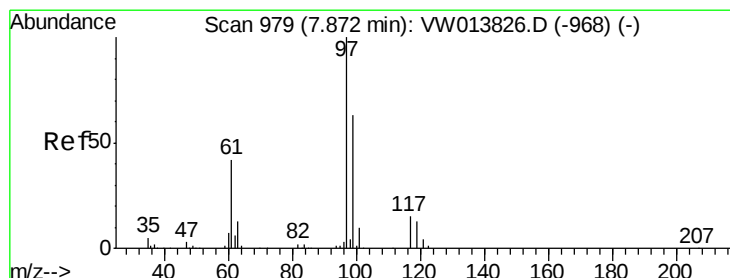
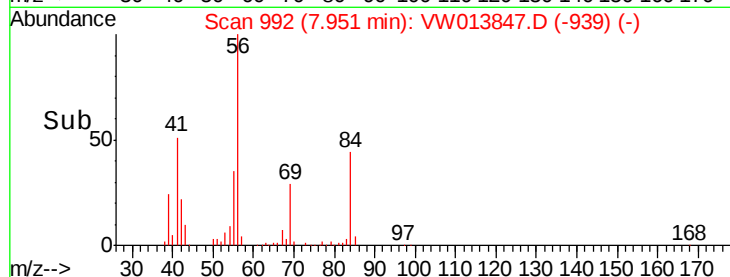
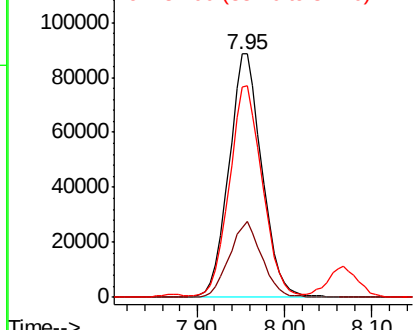
#30
Cyclohexane
Concen: 26.913 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Instrument :
MSVOA_W
ClientSampled :
VSTD02511

Tot Ion: 56 Resp: 232674
Ion Ratio Lower Upper
56 100
69 30.3 24.6 37.0
84 87.2 71.1 106.7

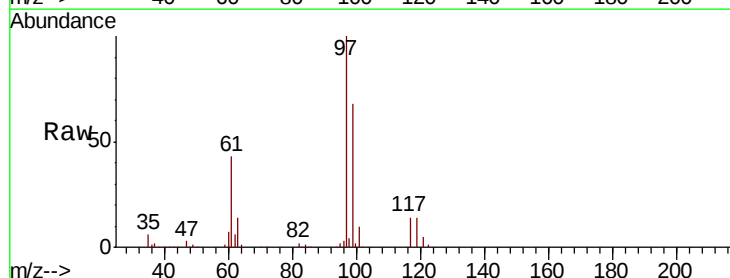


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

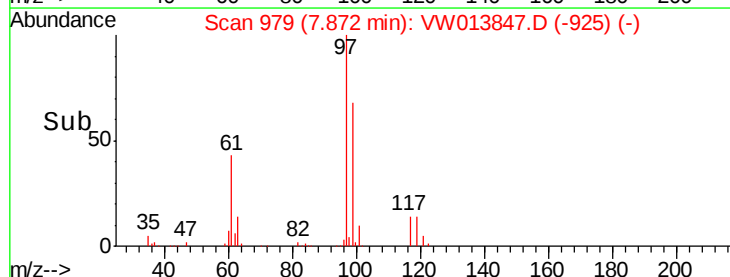
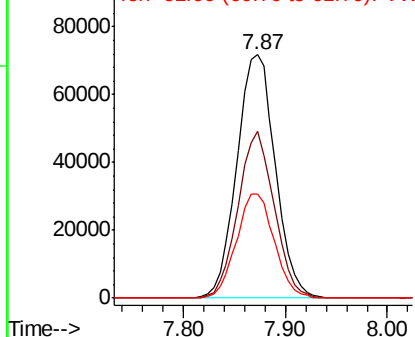


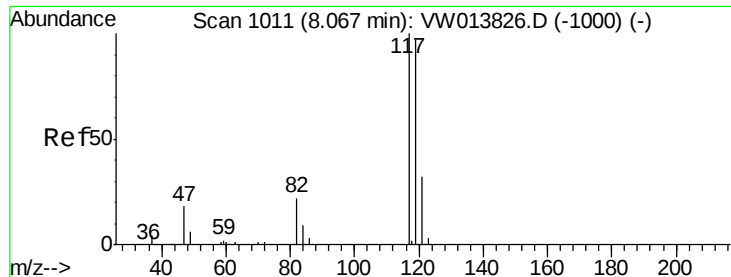
#31
1,1,1-Trichloroethane
Concen: 27.301 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Tgt Ion: 97 Resp: 187916
Ion Ratio Lower Upper
97 100
99 64.7 51.7 77.5
61 42.2 33.8 50.8



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: 27.214 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

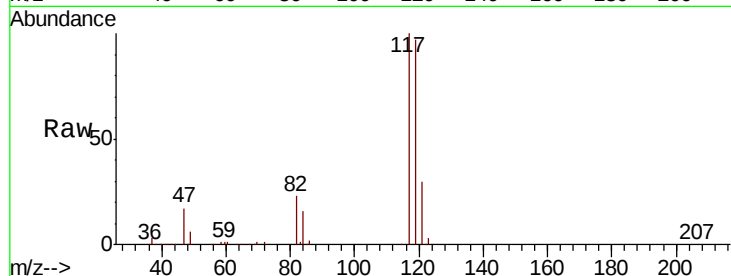
VSTD02511

Tot Ion:117 Resp: 182402

Ion Ratio Lower Upper

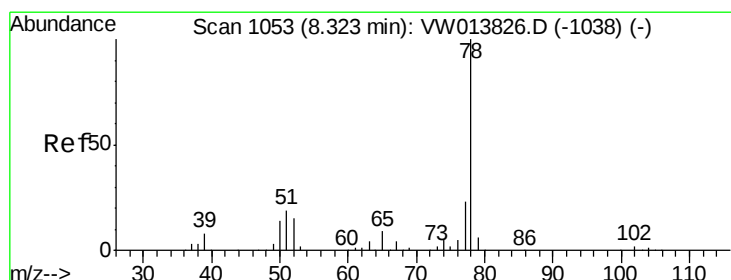
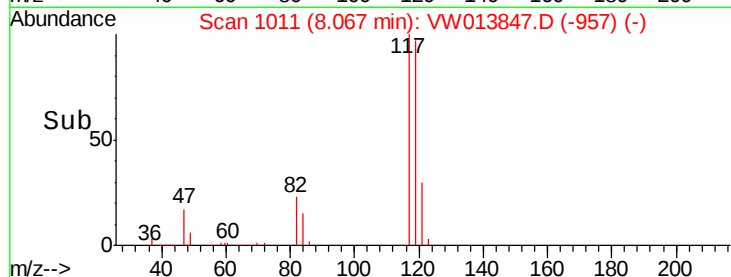
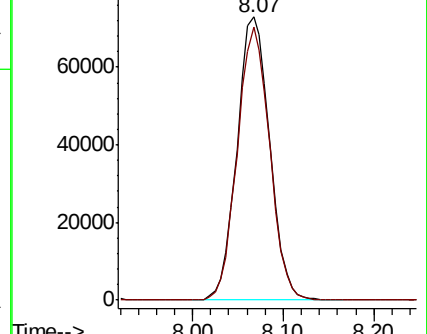
117 100

119 95.3 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.694 ug/L

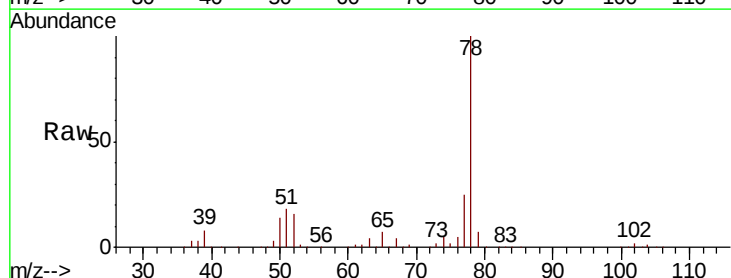
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

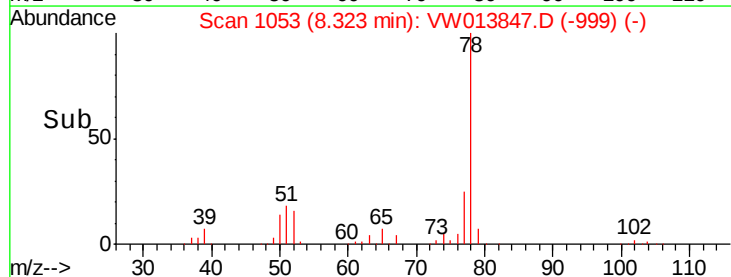
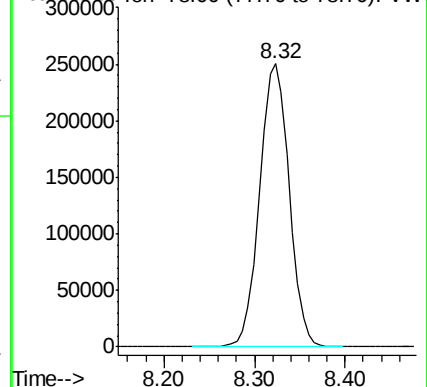
Lab File: VW013847.D

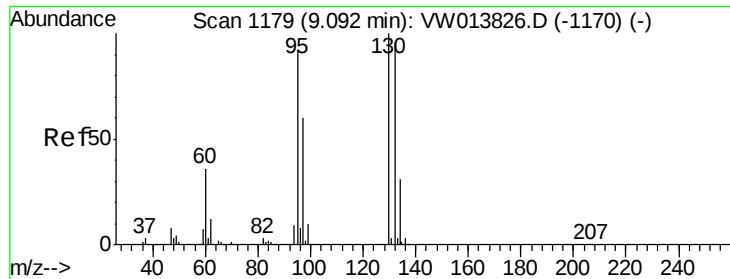
Acq: 30 Oct 2019 19:30

Tgt Ion: 78 Resp: 565220



Abundance Ion 78.00 (77.70 to 78.70): VW

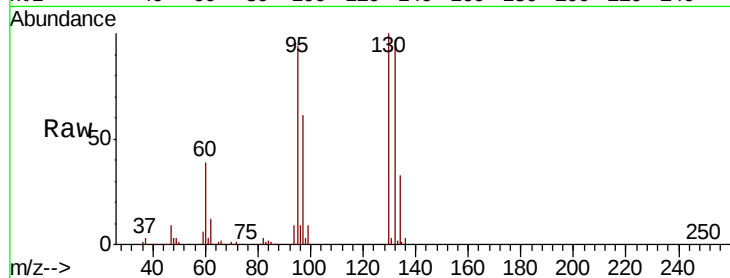




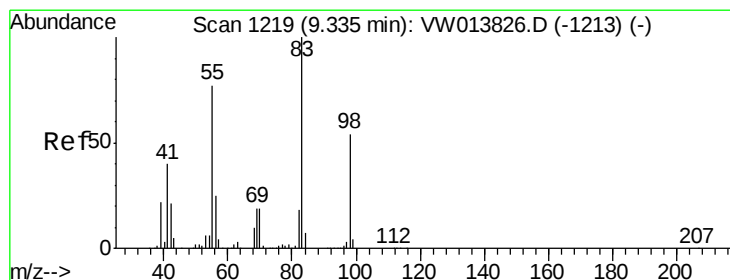
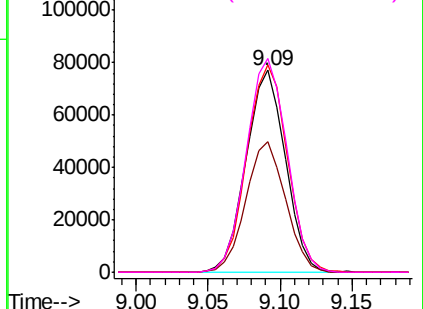
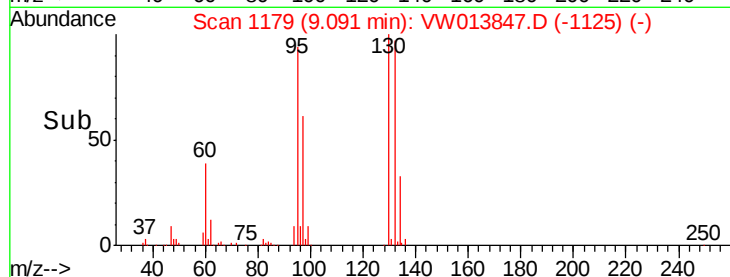
#35
 Trichloroethene
 Concen: 26.765 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

Tot Ion:	95	Resp:	145405
Ion	Ratio	Lower	Upper
95	100		
97	65.6	45.8	85.2
132	106.0	74.3	138.1
130	109.9	76.6	142.3

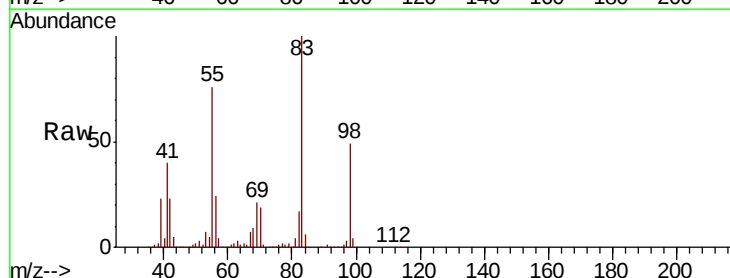


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

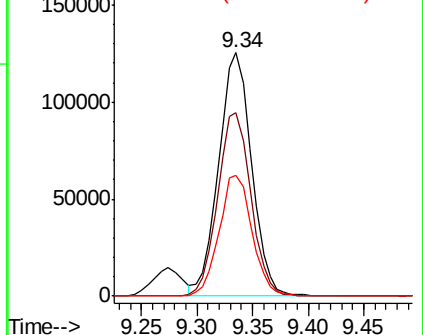
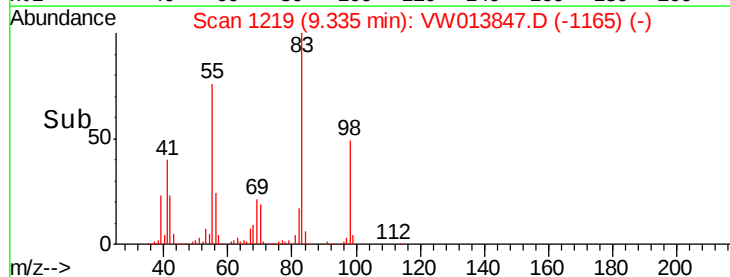


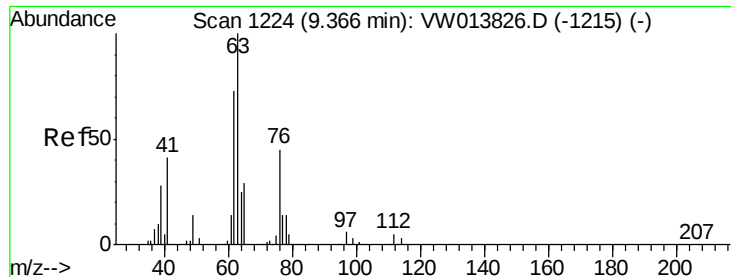
#36
 Methylcyclohexane
 Concen: 26.844 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Tgt Ion:	83	Resp:	257045
Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.2	90.4
98	49.5	39.1	58.7



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

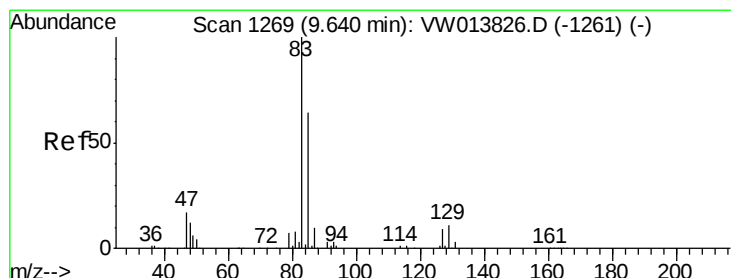
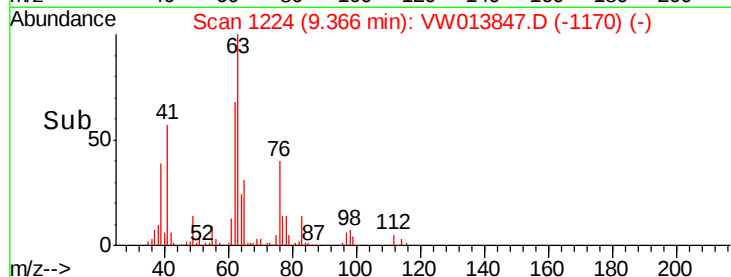
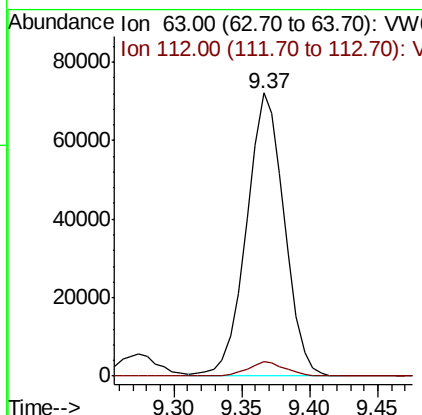
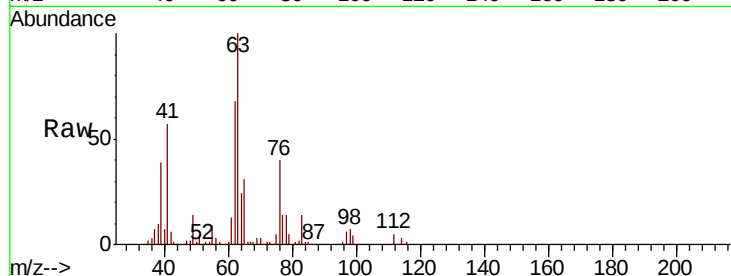




#40
 1,2-Dichloropropane
 Concen: 27.144 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

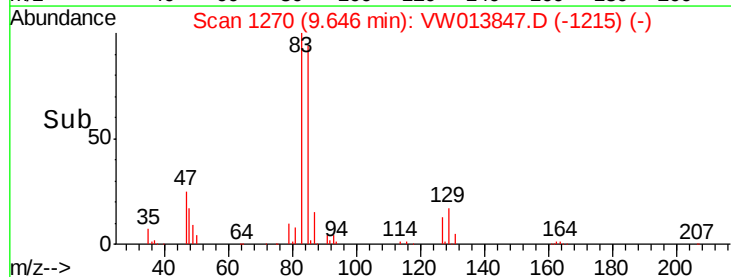
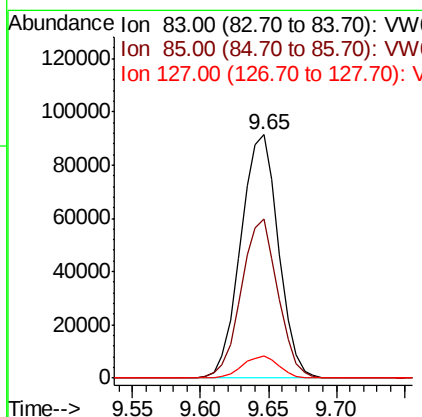
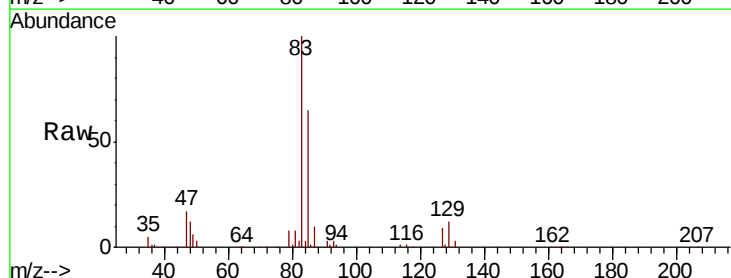
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

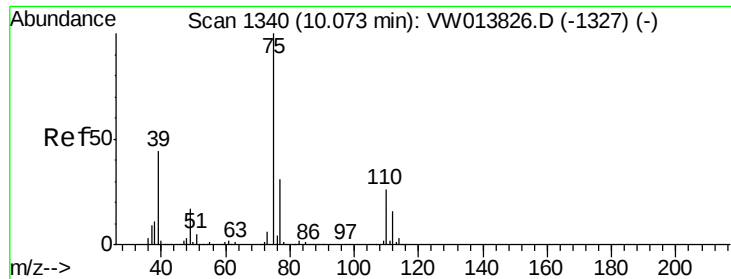
Tot Ion: 63 Resp: 140530
 Ion Ratio Lower Upper
 63 100
 112 5.1 3.9 5.9



#41
 Bromodichloromethane
 Concen: 28.000 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Tgt Ion: 83 Resp: 177622
 Ion Ratio Lower Upper
 83 100
 85 65.2 45.8 85.0
 127 9.1 6.6 10.0

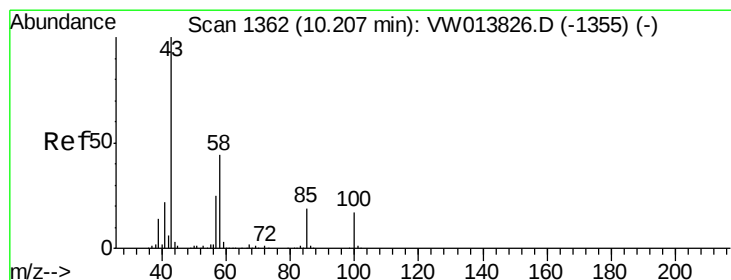
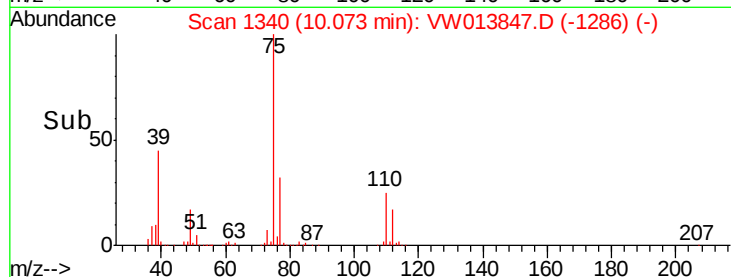
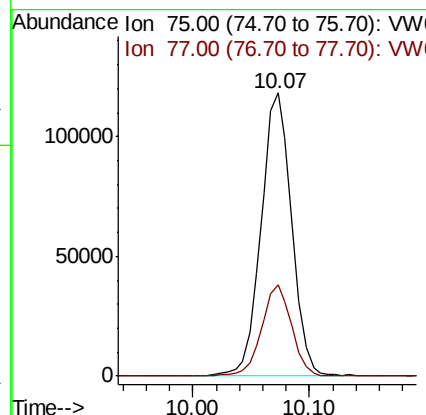
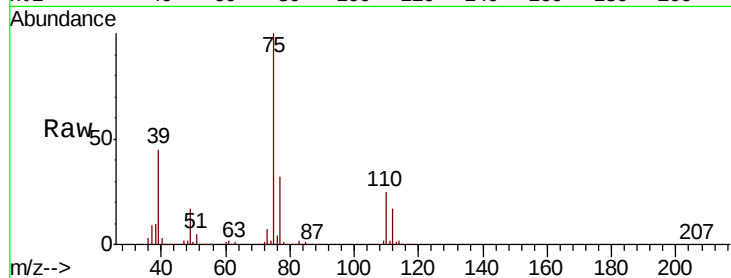




#42
 cis-1,3-Dichloropropene
 Concen: 26.460 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

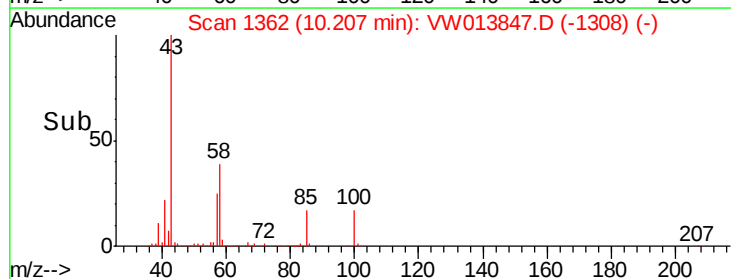
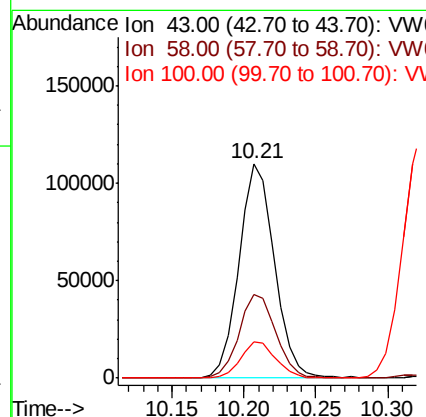
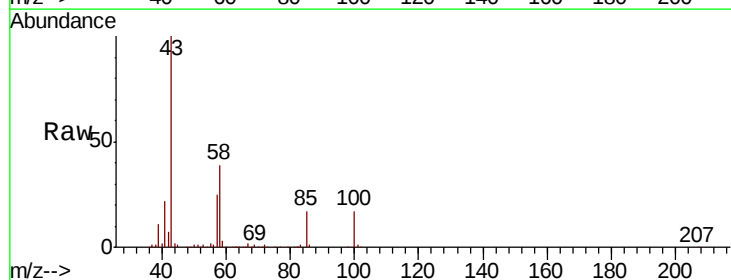
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02511

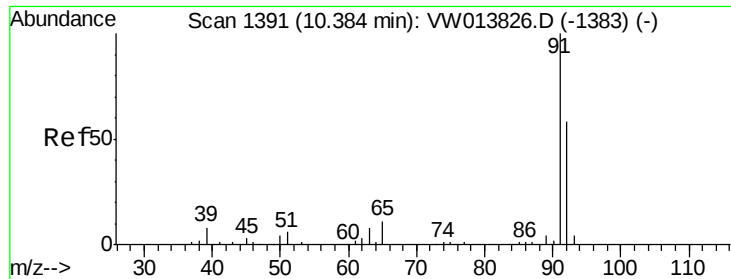
Tot Ion: 75 Resp: 216285
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.5 41.9



#43
 4-Methyl-2-pentanone
 Concen: 53.265 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Tgt Ion: 43 Resp: 188149
 Ion Ratio Lower Upper
 43 100
 58 40.6 32.8 49.2
 100 17.0 13.7 20.5





#44

Toluene

Concen: 27.225 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

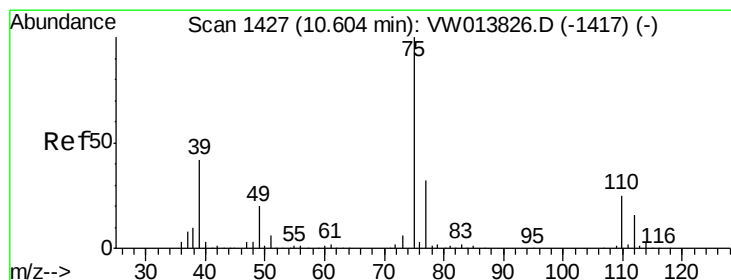
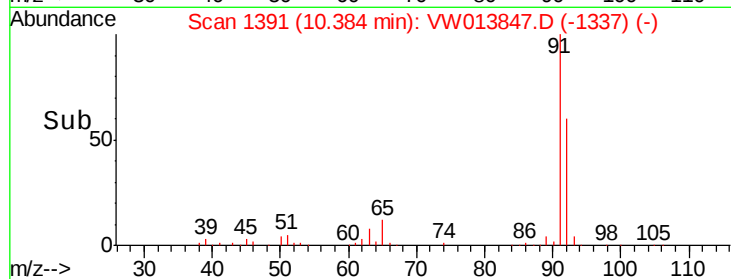
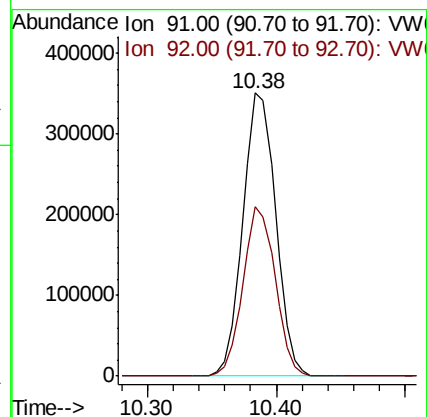
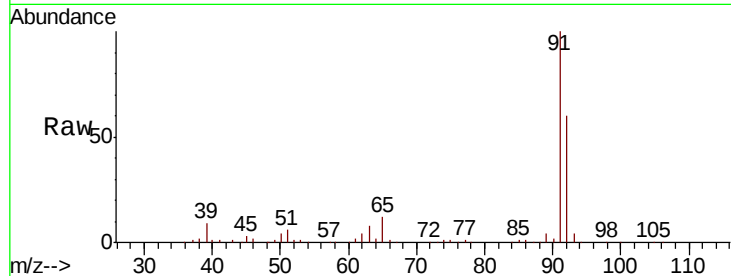
VSTD02511

Tot Ion: 91 Resp: 619347

Ion Ratio Lower Upper

91 100

92 59.7 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 26.854 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013847.D

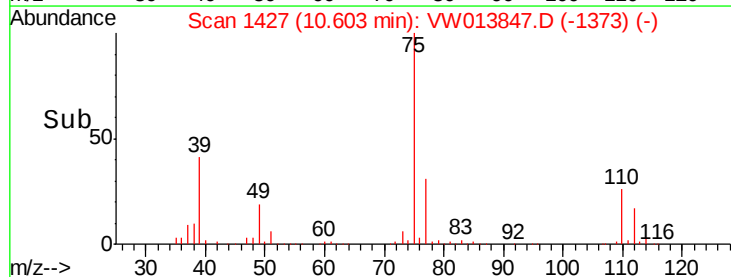
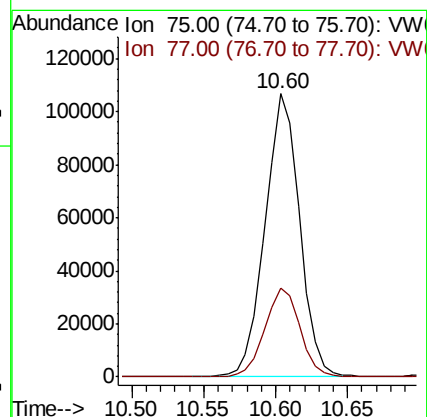
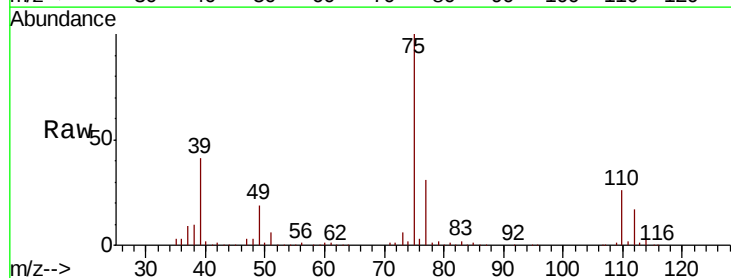
Acq: 30 Oct 2019 19:30

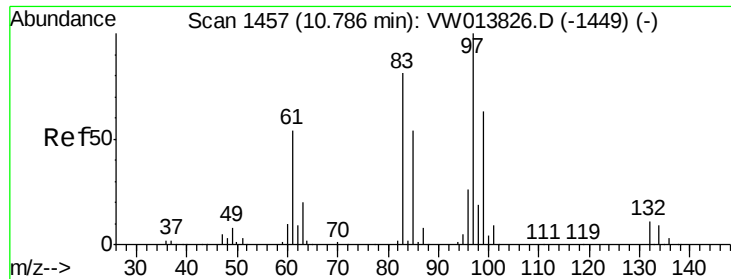
Tgt Ion: 75 Resp: 177183

Ion Ratio Lower Upper

75 100

77 31.3 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 26.854 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

Tot Ion: 97 Resp: 107227

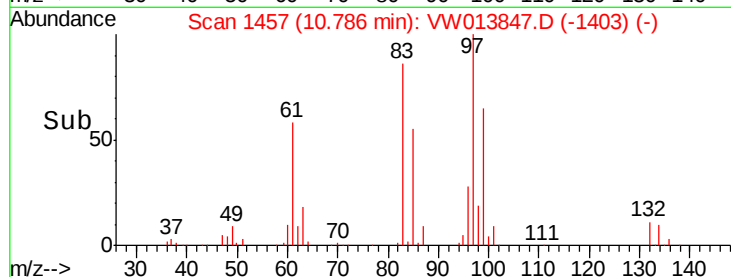
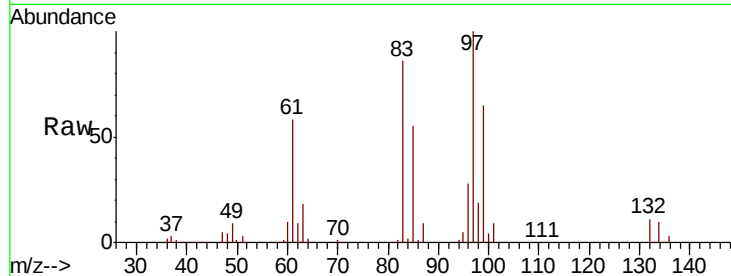
Ion Ratio Lower Upper

97 100

83 85.6 57.7 107.3

85 55.3 38.6 71.6

99 65.0 44.7 82.9

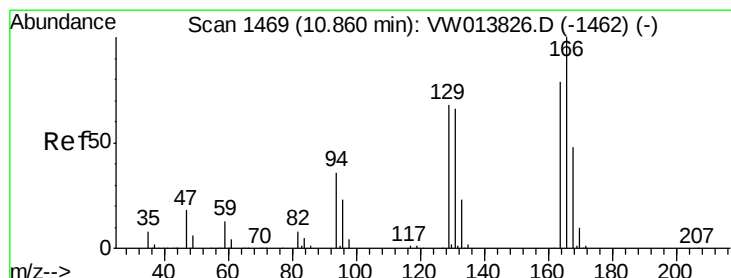
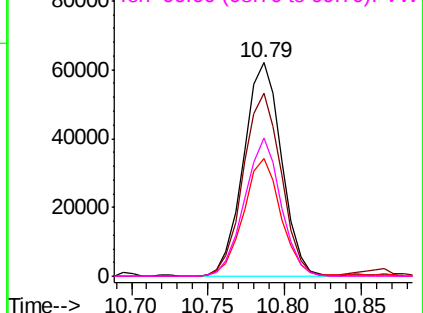


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 27.036 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Tgt Ion: 164 Resp: 134447

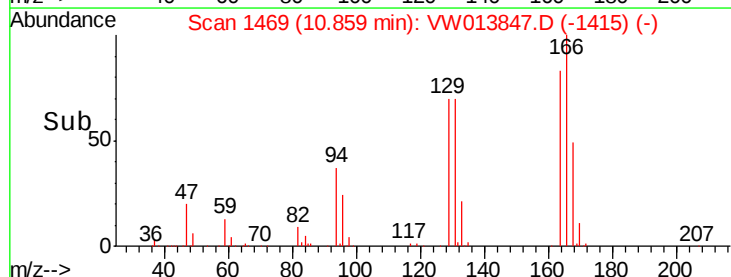
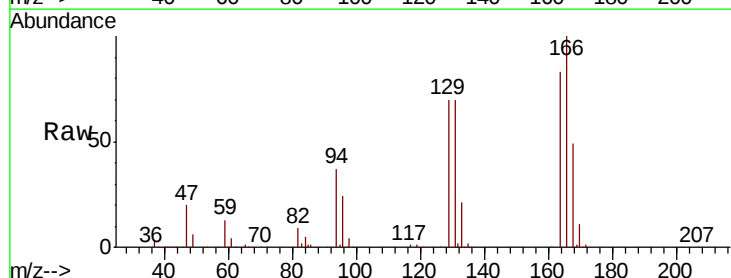
Ion Ratio Lower Upper

164 100

129 84.7 61.8 114.8

131 84.0 59.2 110.0

166 120.6 89.2 165.8

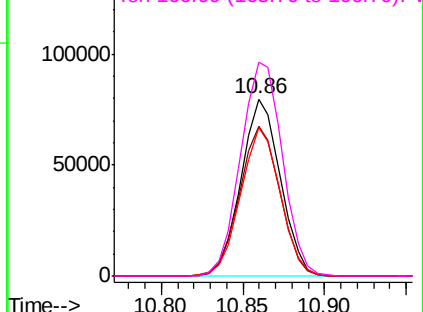


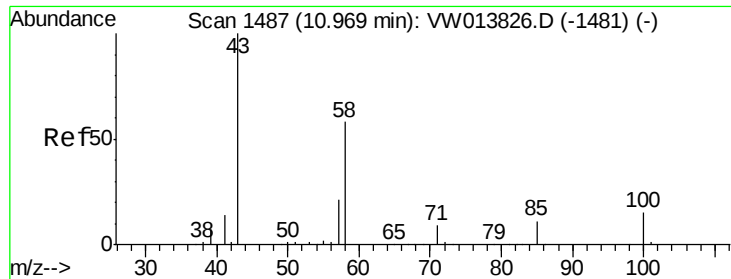
Abundance Ion 164.00 (163.70 to 164.70): V

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

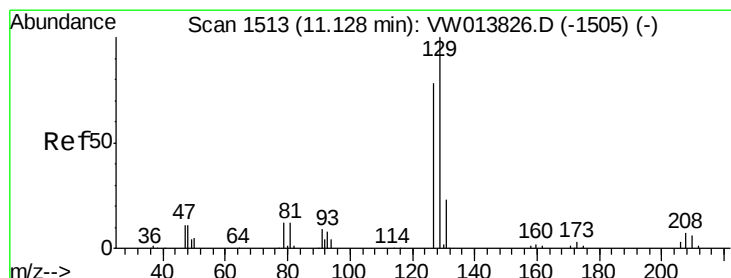
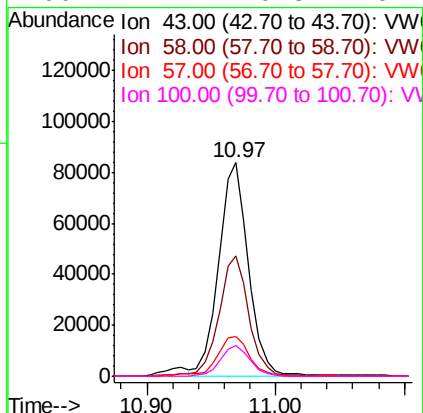
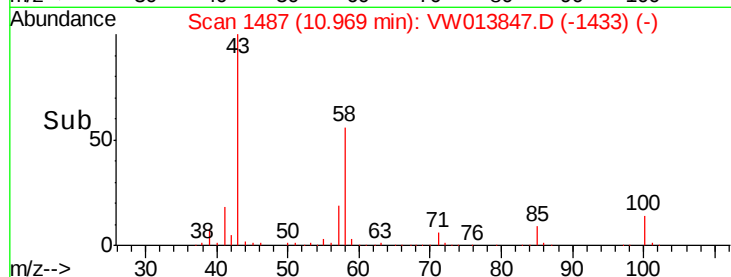
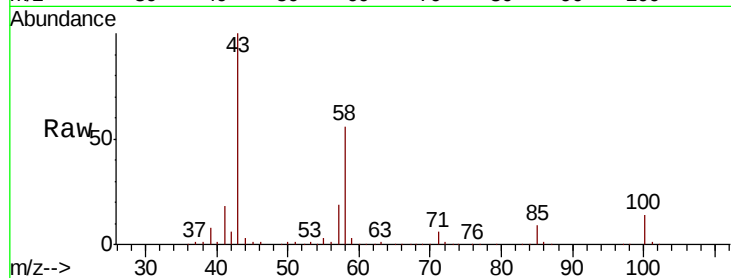




#49
2-Hexanone
Concen: 54.154 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

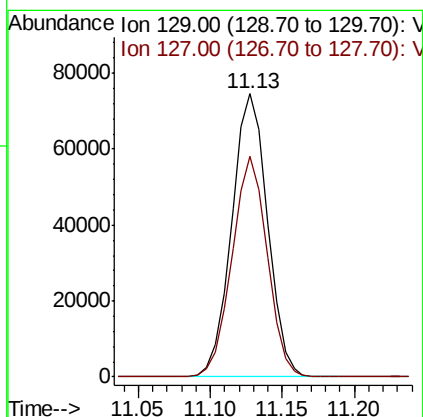
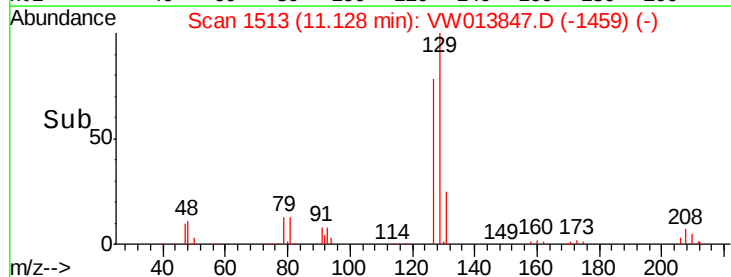
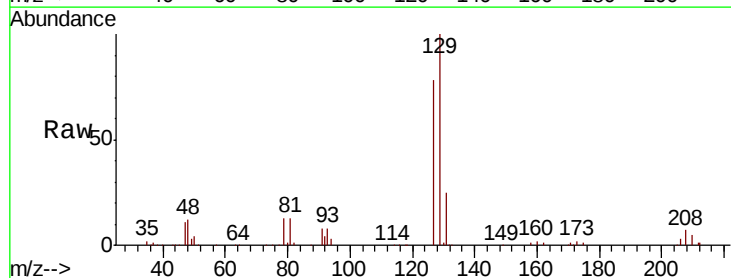
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

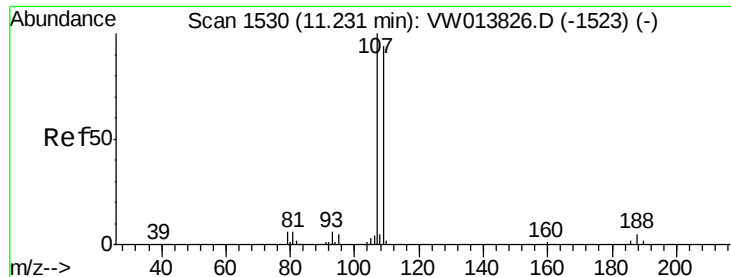
Tot Ion: 43 Resp: 135708
Ion Ratio Lower Upper
43 100
58 56.8 45.8 68.6
57 19.4 15.4 23.2
100 14.2 10.8 16.2



#50
Dibromochloromethane
Concen: 27.426 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Tgt Ion: 129 Resp: 129240
Ion Ratio Lower Upper
129 100
127 78.0 51.4 95.5

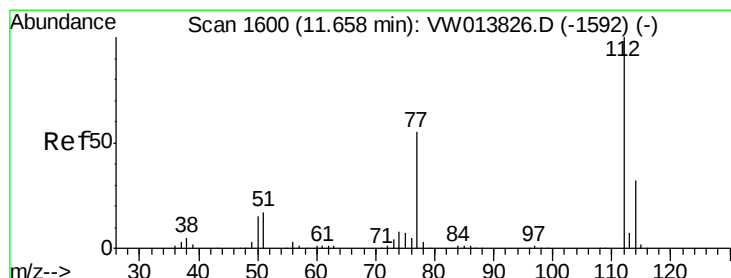
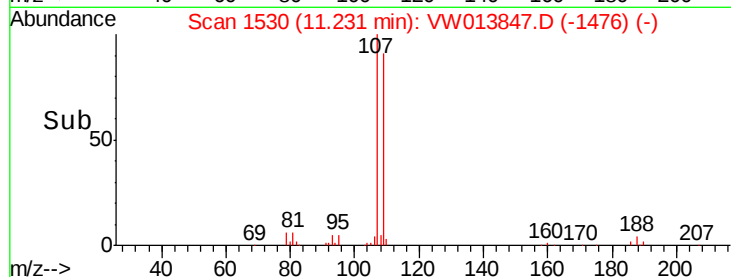
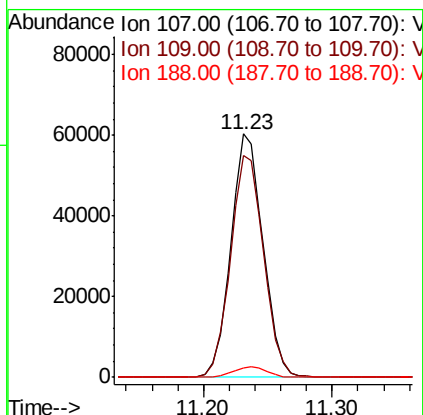
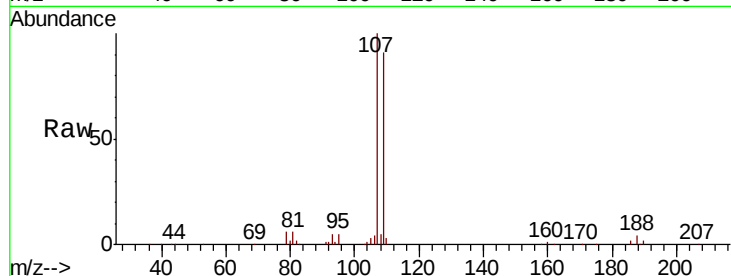




#51
1,2-Dibromoethane
Concen: 26.980 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

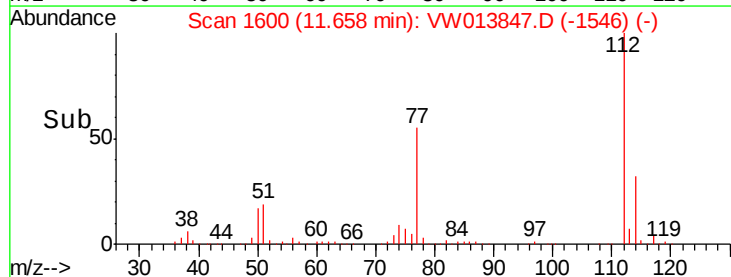
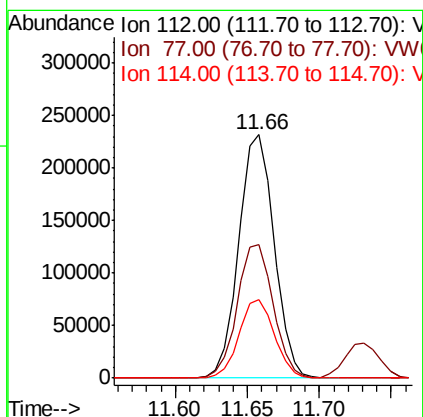
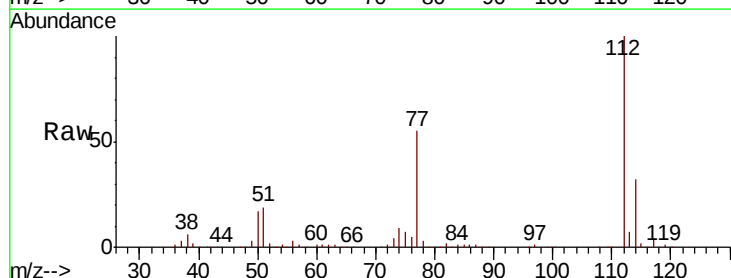
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

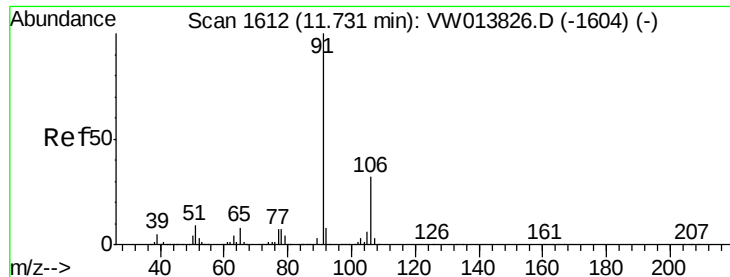
Tot Ion	Ratio	Lower	Upper
107	100		
109	91.4	64.0	118.8
188	4.0	3.4	5.2



#52
Chlorobenzene
Concen: 27.153 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013847.D
Acq: 30 Oct 2019 19:30

Tgt Ion	Ratio	Lower	Upper
112	100		
77	54.6	44.1	66.1
114	32.3	23.4	43.4





#53

Ethylbenzene

Concen: 27.545 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

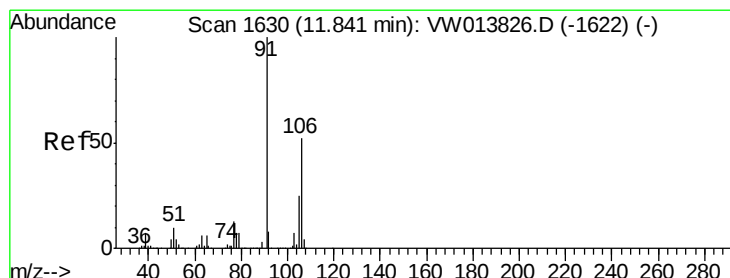
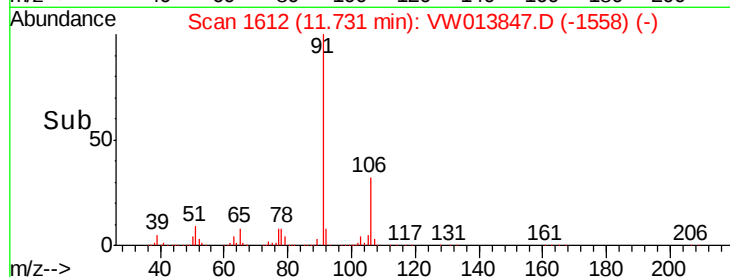
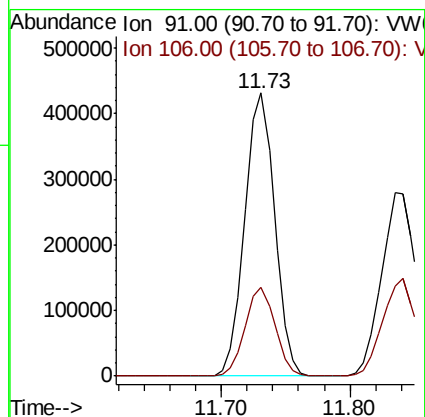
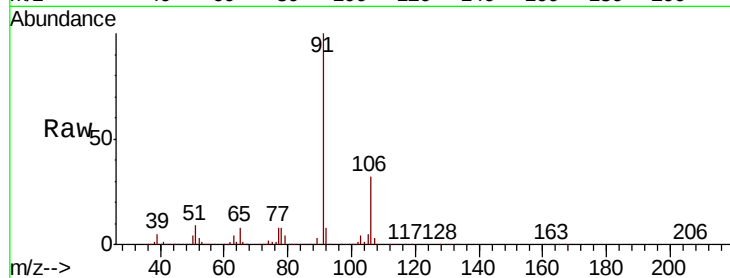
VSTD02511

Tot Ion: 91 Resp: 692363

Ion Ratio Lower Upper

91 100

106 31.6 22.3 41.3



#54

m,p-Xylene

Concen: 27.774 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW013847.D

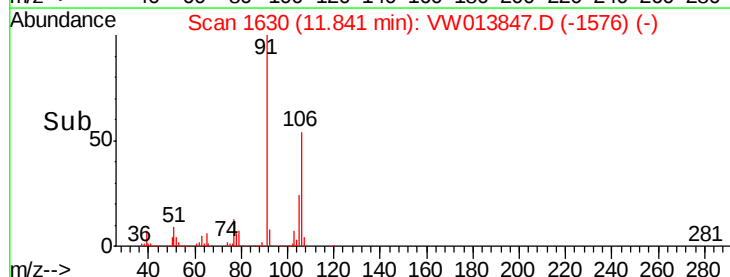
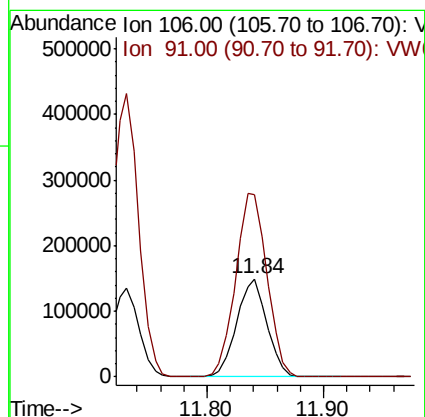
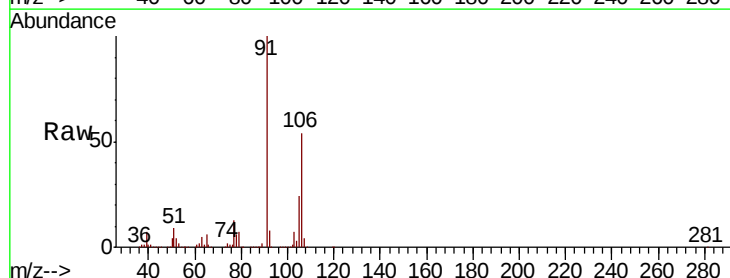
Acq: 30 Oct 2019 19:30

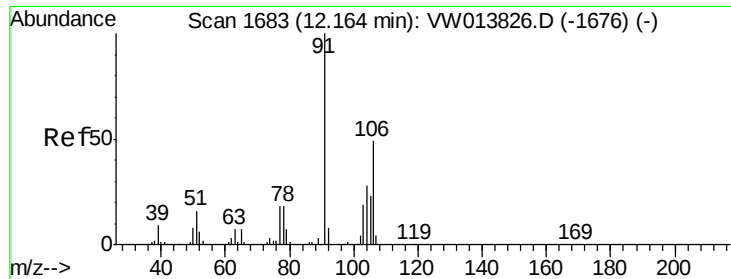
Tgt Ion: 106 Resp: 269774

Ion Ratio Lower Upper

106 100

91 186.0 137.7 255.7





#55

o-xylene

Concen: 27.640 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampled :

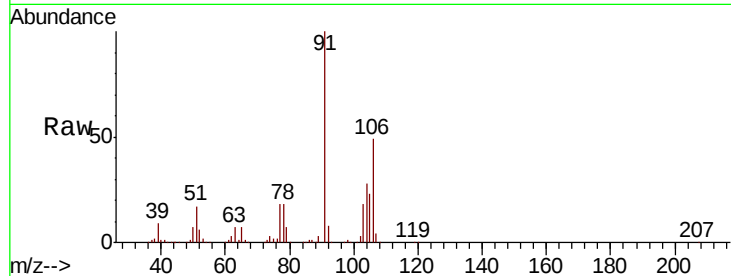
VSTD02511

Tot Ion:106 Resp: 254778

Ion Ratio Lower Upper

106 100

91 203.7 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

400000

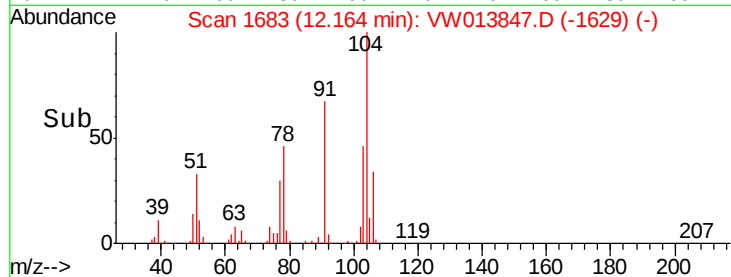
300000

200000

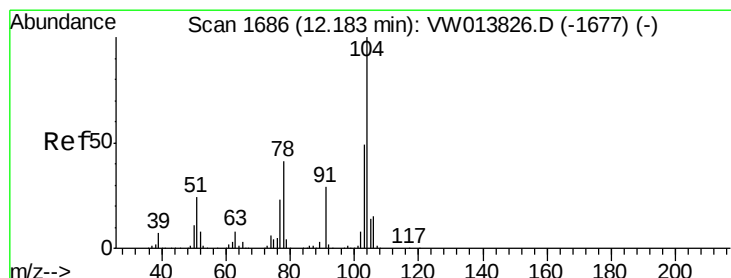
100000

0

12.10 12.15 12.20



Time-->



#56

Styrene

Concen: 28.119 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW013847.D

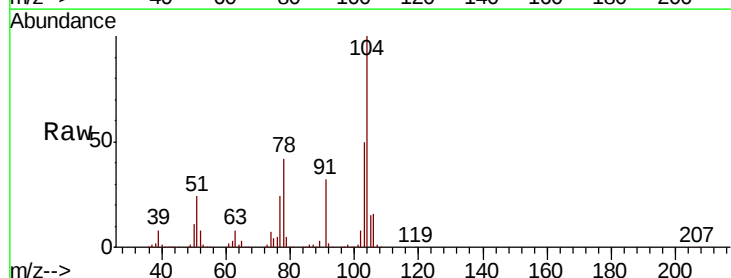
Acq: 30 Oct 2019 19:30

Tgt Ion:104 Resp: 443382

Ion Ratio Lower Upper

104 100

78 41.8 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

300000

250000

200000

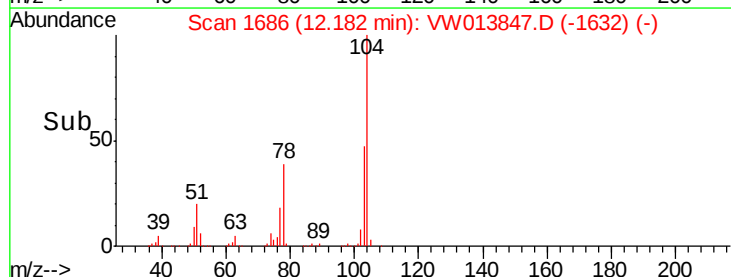
150000

100000

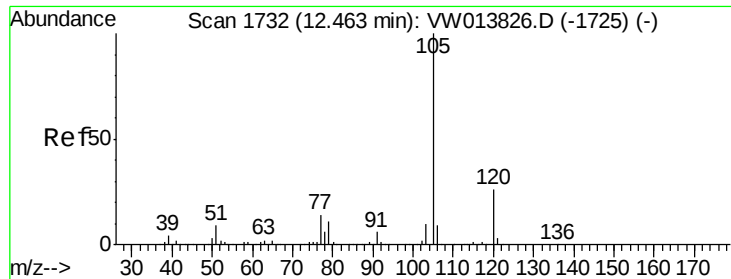
50000

0

12.10 12.15 12.20



Time-->



#57

Isopropylbenzene

Concen: 27.755 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

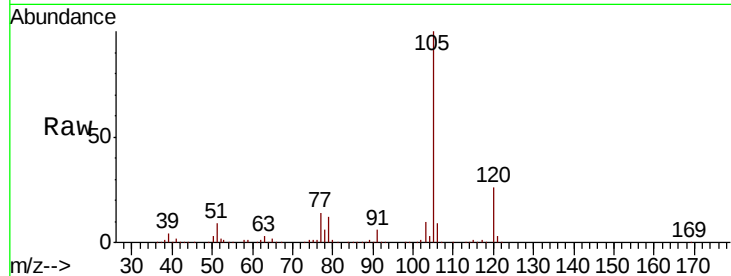
Tot Ion:105 Resp: 686222

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.2

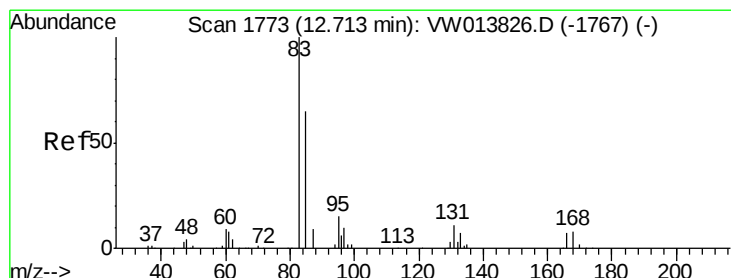
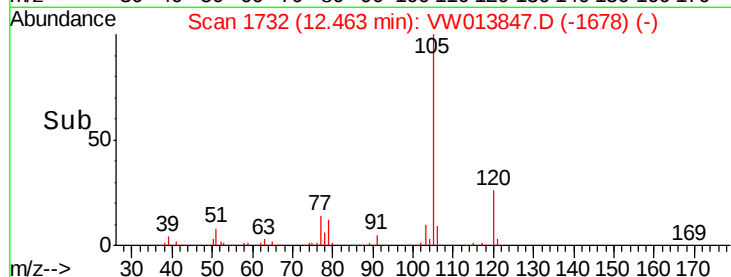
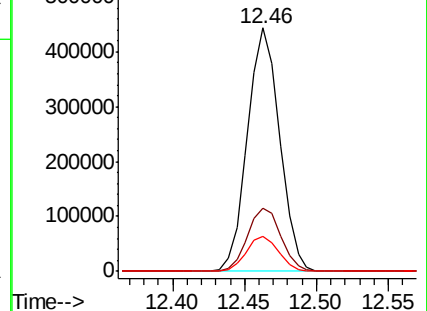
77 14.5 11.4 17.0



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: 28.028 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

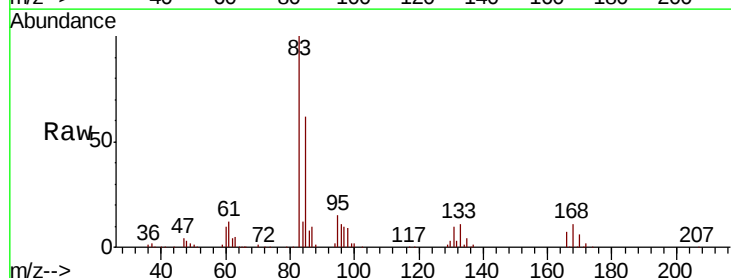
Tgt Ion: 83 Resp: 131170

Ion Ratio Lower Upper

83 100

85 61.6 44.9 83.3

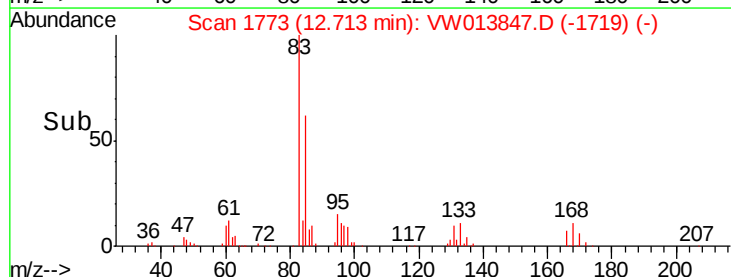
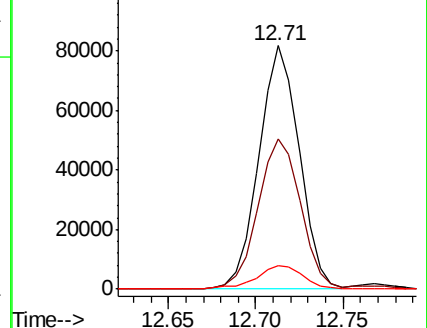
131 9.7 8.6 13.0

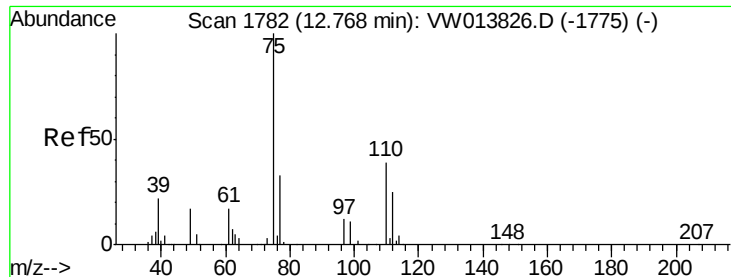


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 27.451 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

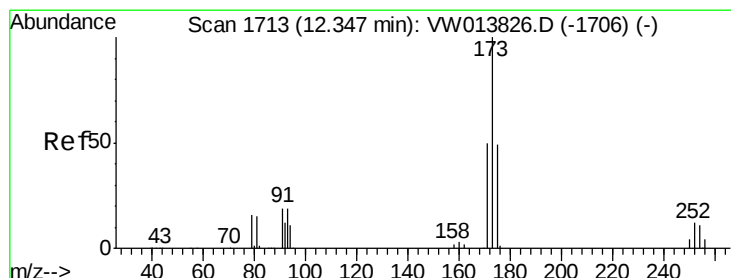
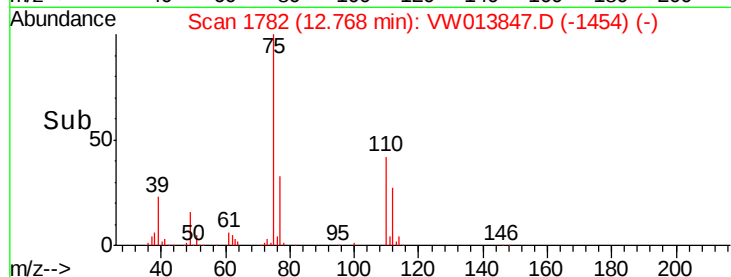
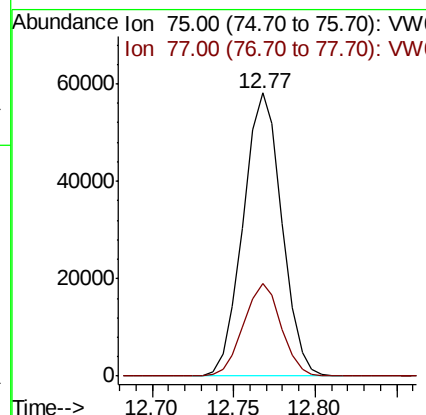
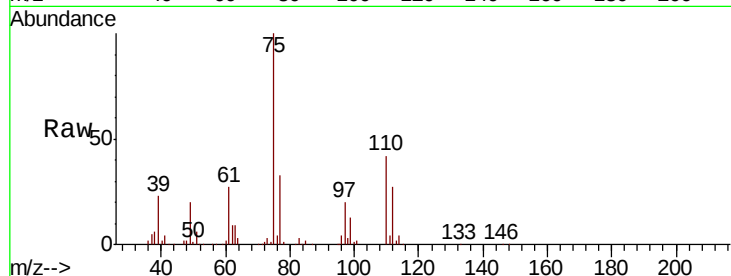
VSTD02511

Tot Ion: 75 Resp: 95802

Ion Ratio Lower Upper

75 100

77 32.0 26.4 39.6



#62

Bromoform

Concen: 26.177 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

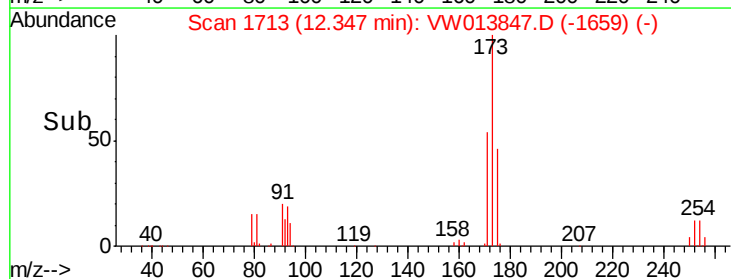
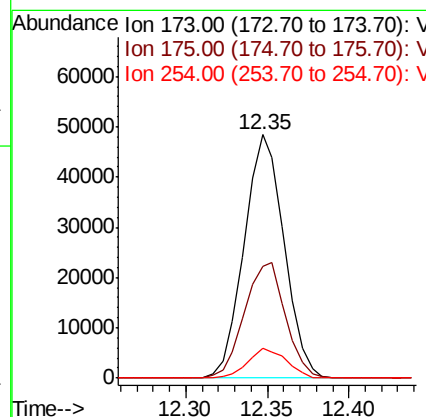
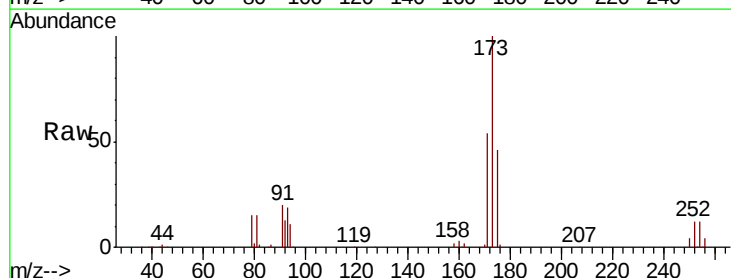
Tgt Ion: 173 Resp: 82375

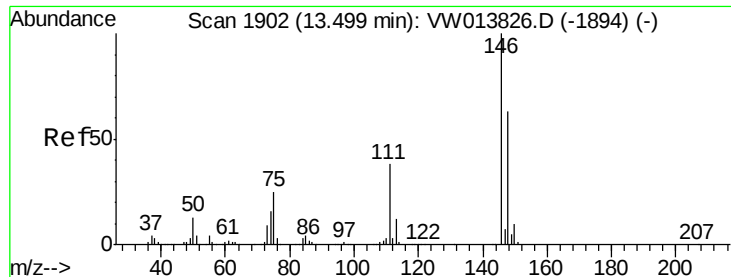
Ion Ratio Lower Upper

173 100

175 48.8 39.1 58.7

254 11.8 9.6 14.4





#63

1,3-Dichlorobenzene

Concen: 26.643 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

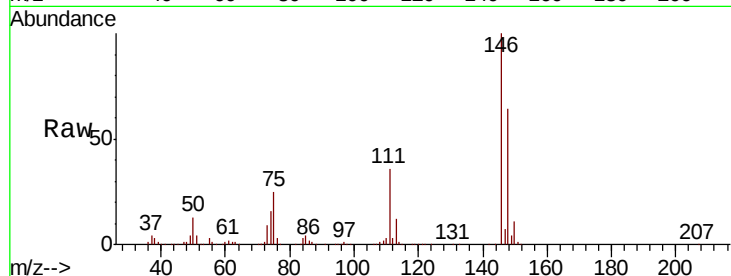
Tot Ion:146 Resp: 331958

Ion Ratio Lower Upper

146 100

111 36.4 26.1 48.5

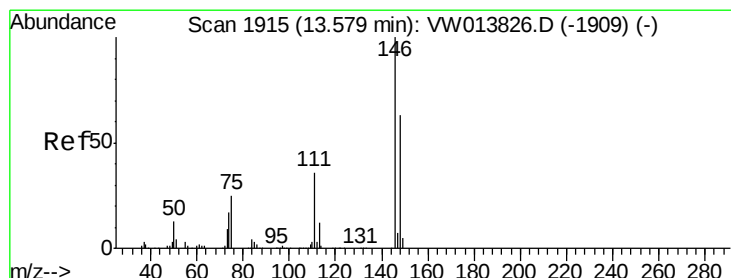
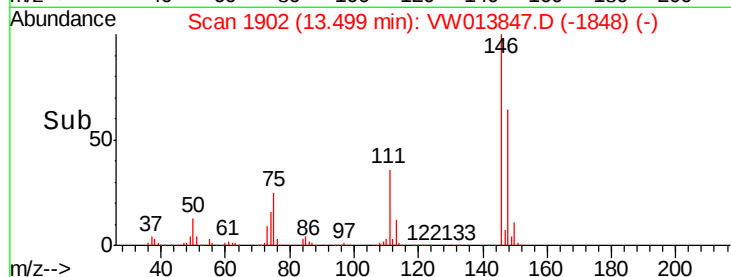
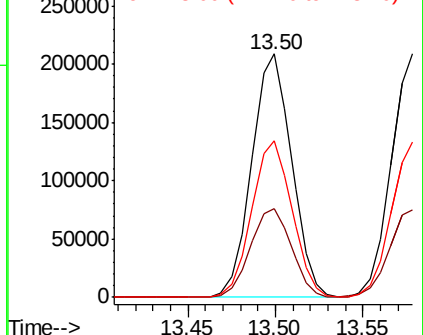
148 64.5 45.8 85.2



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: 26.425 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

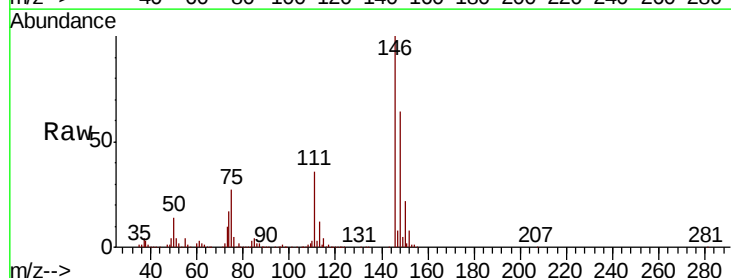
Tgt Ion:146 Resp: 330840

Ion Ratio Lower Upper

146 100

111 36.0 24.8 46.0

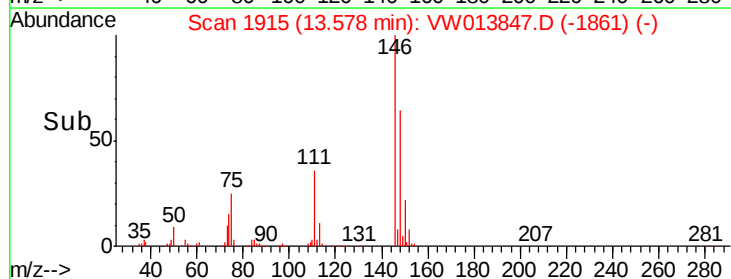
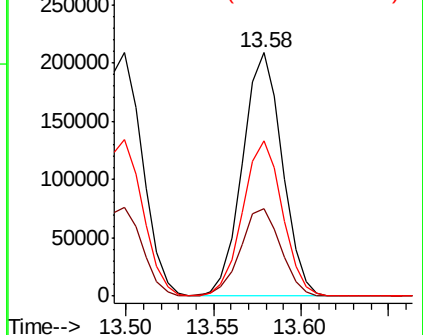
148 63.8 43.0 79.8

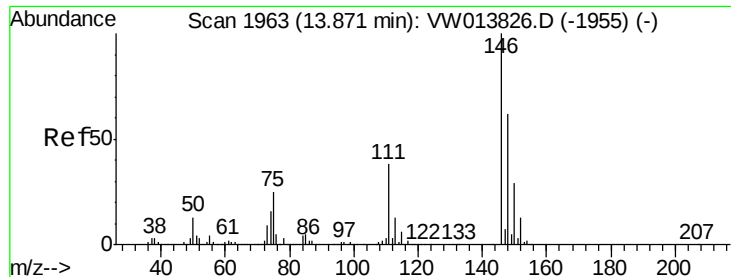


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 26.674 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

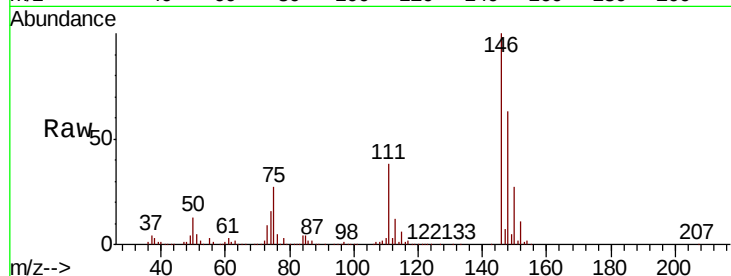
Tot Ion:146 Resp: 301114

Ion Ratio Lower Upper

146 100

111 37.6 30.7 46.1

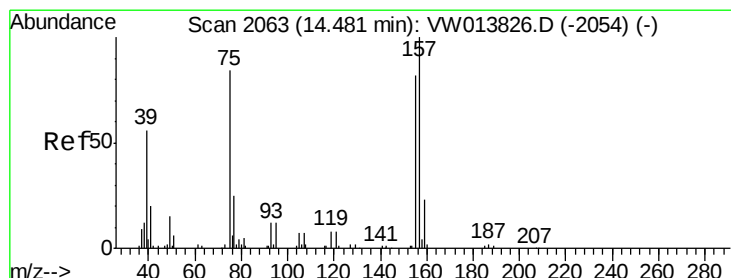
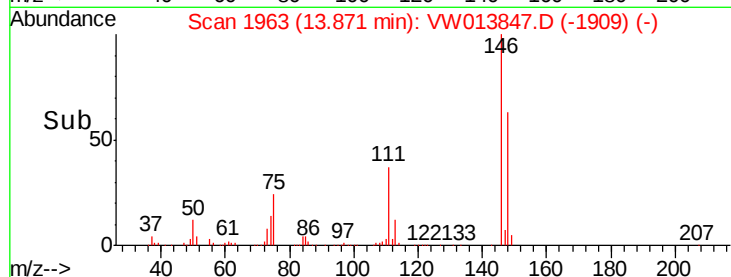
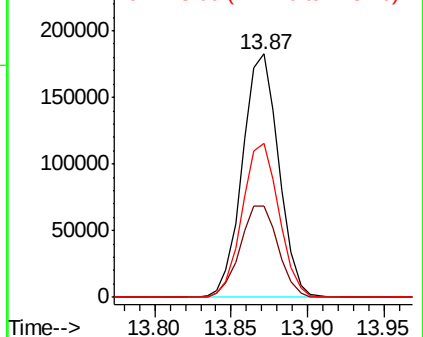
148 63.1 53.3 79.9



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: 26.617 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

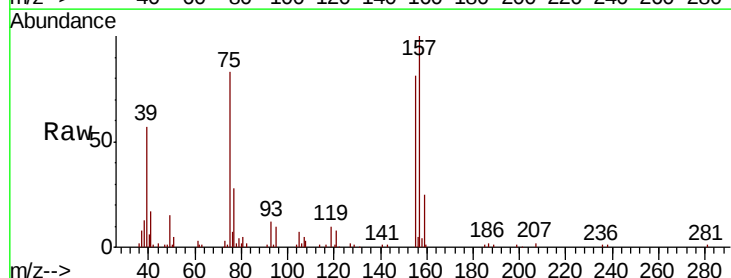
Tgt Ion: 75 Resp: 20653

Ion Ratio Lower Upper

75 100

157 120.8 99.4 149.0

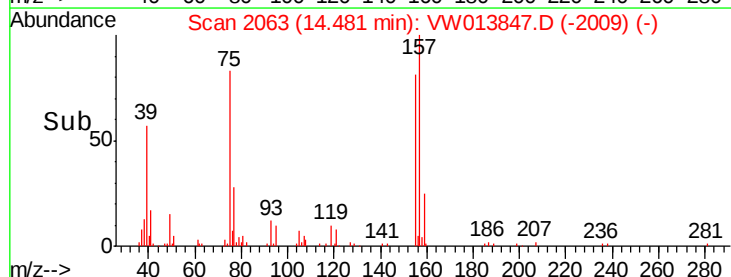
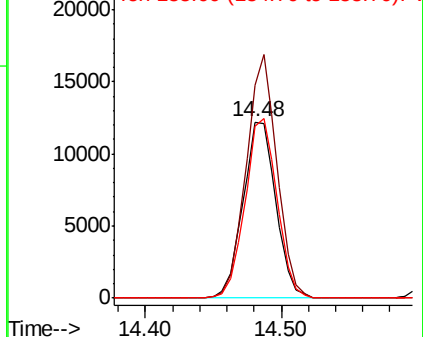
155 97.8 69.7 104.5

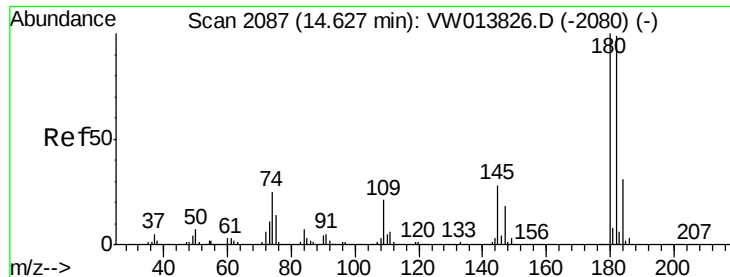


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

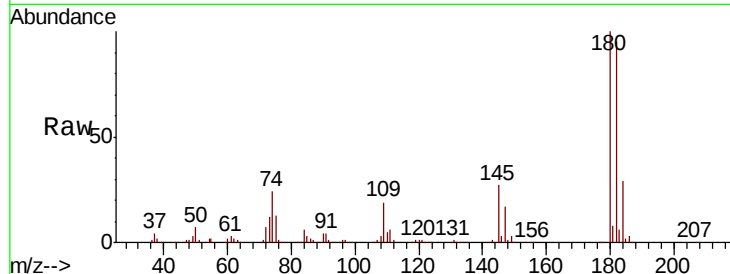




#67
 1,3,5-Trichlorobenzene
 Concen: 27.470 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.4
184	30.6	24.1	36.1
145	27.4	21.8	32.8



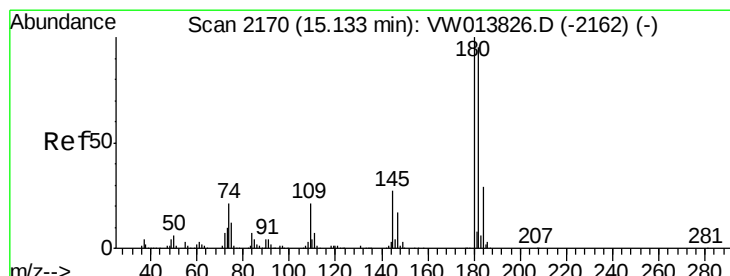
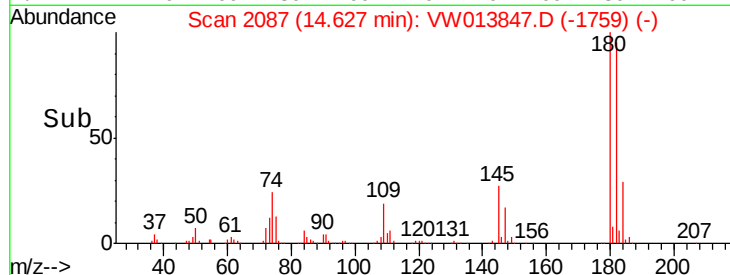
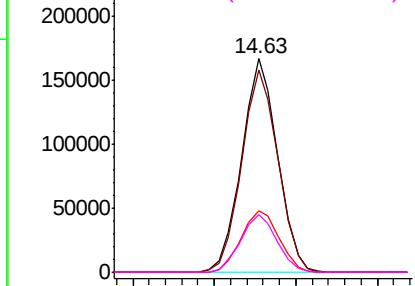
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

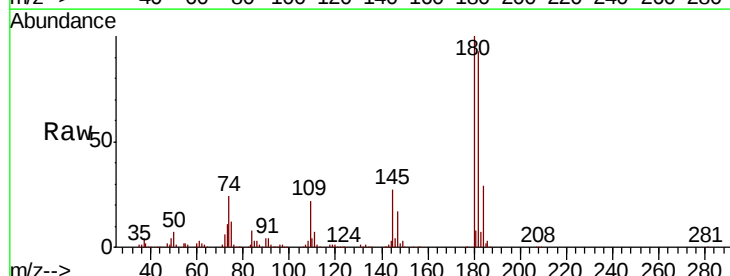
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 27.533 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013847.D
 Acq: 30 Oct 2019 19:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.8	113.8
145	27.8	22.6	34.0

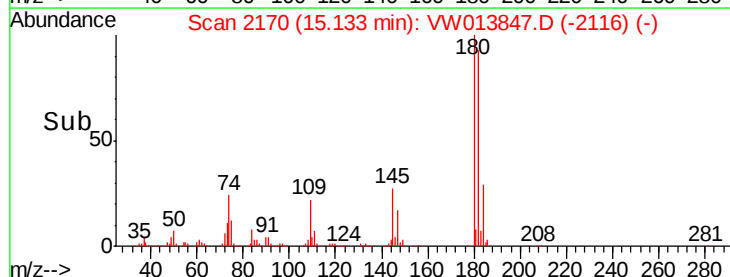
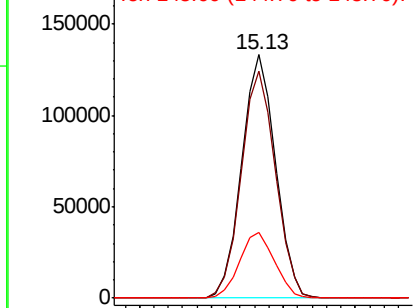


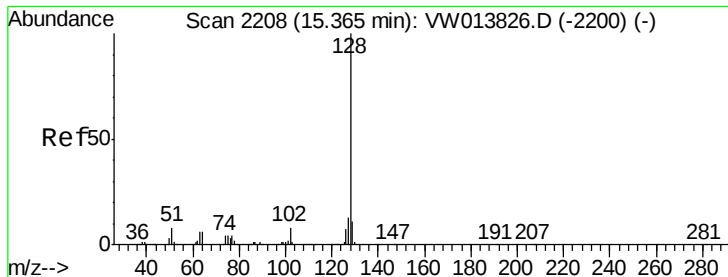
Abundance

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: 27.876 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

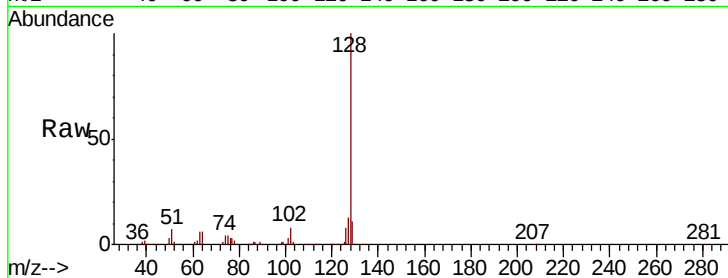
Tot Ion:128 Resp: 397196

Ion Ratio Lower Upper

128 100

129 10.7 8.6 13.0

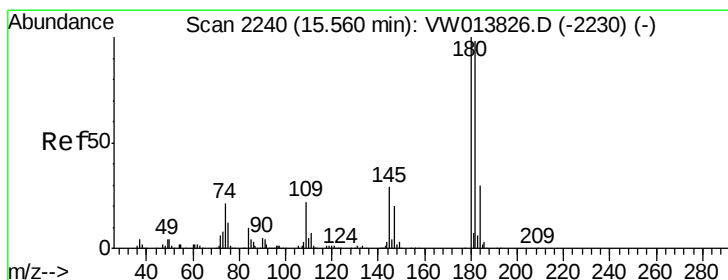
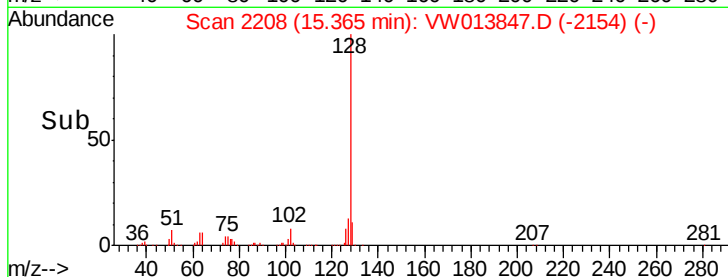
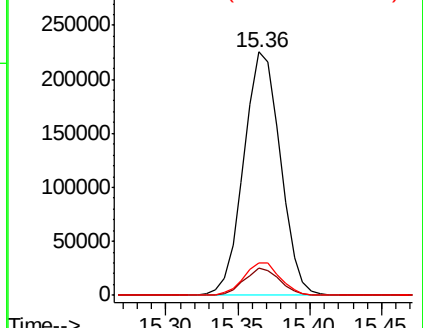
127 13.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 28.598 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW013847.D

Acq: 30 Oct 2019 19:30

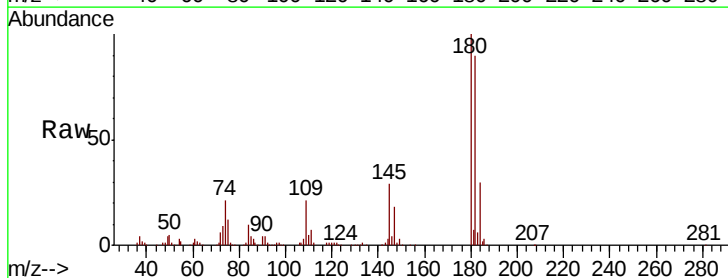
Tgt Ion:180 Resp: 201388

Ion Ratio Lower Upper

180 100

182 94.8 77.0 115.4

145 29.5 24.1 36.1



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

