

Data File : VW014073.D
Acq On : 18 Nov 2019 20:10
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

Quant Time: Nov 19 07:26:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
Quant Title : VOC Analysis
QLast Update : Tue Nov 19 07:22:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	290829	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	287141	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	177934	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	109996	23.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.84%
7) Chloroethane-d5	2.89	69	91886	24.43	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.72%
10) 1,1-Dichloroethene-d2	4.02	63	225801	23.71	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.84%
20) 2-Butanone-d5	7.07	46	69847	51.81	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.62%
24) Chloroform-d	7.65	84	240337	26.88	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.52%
26) 1,2-Dichloroethane-d4	8.30	65	122935	27.34	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	109.36%
29) Benzene-d6	8.27	84	490973	24.10	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.40%
33) 1,2-Dichloropropane-d6	9.27	67	148787	24.93	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.72%
37) Toluene-d8	10.32	98	458430	23.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.92%
38) trans-1,3-Dichloropropene-	10.58	79	65524	25.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.56%
39) 2-Hexanone-d5	10.92	63	59082	52.21	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.42%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	123510	27.41	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	109.64%
61) 1,2-Dichlorobenzene-d4	13.85	152	167514	23.43	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	71232	20.595 ug/L	95
3) Chloromethane	2.21	50	64538	21.007 ug/L	99
5) Vinyl chloride	2.36	62	120749	25.173 ug/L	92
6) Bromomethane	2.78	94	75360	25.375 ug/L	97
8) Chloroethane	2.92	64	71262	24.975 ug/L	91
9) Trichlorofluoromethane	3.25	101	61245	18.724 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	118854	24.608 ug/L	97
12) 1,1-Dichloroethene	4.04	96	122527	24.957 ug/L	89
13) Acetone	4.12	43	43900	32.004 ug/L	99
14) Carbon disulfide	4.39	76	340013	24.333 ug/L	99
15) Methyl Acetate	4.67	43	59059	26.611 ug/L	98
16) Methylene chloride	4.92	84	136262	24.337 ug/L	98
17) Methyl tert-butyl Ether	5.42	73	168833	26.656 ug/L #	90
18) trans-1,2-Dichloroethene	5.42	96	129379	25.271 ug/L	97
19) 1,1-Dichloroethane	6.21	63	230922	26.778 ug/L	99
21) 2-Butanone	7.17	43	77013	43.701 ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	142160	26.387 ug/L	100

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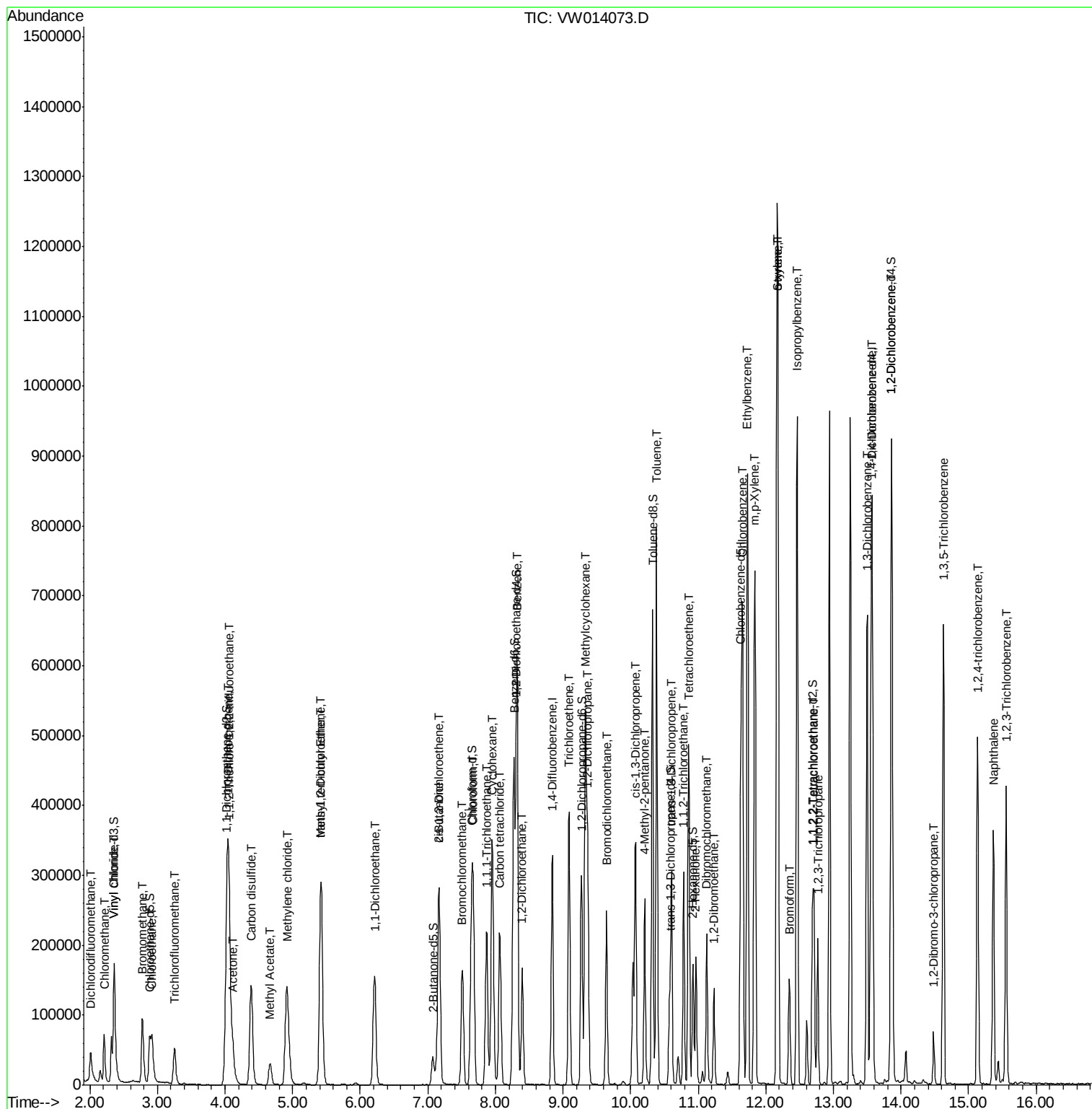
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	65689	27.776	ug/L	91
25) Chloroform	7.67	83	235621	27.823	ug/L	99
27) 1,2-Dichloroethane	8.40	62	148207	28.906	ug/L	98
30) Cyclohexane	7.95	56	210601	22.919	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	179952	25.007	ug/L	99
32) Carbon tetrachloride	8.06	117	171503	24.827	ug/L	99
34) Benzene	8.32	78	536558	25.476	ug/L	100
35) Trichloroethene	9.09	95	139037	24.747	ug/L	98
36) Methylcyclohexane	9.33	83	230324	22.864	ug/L	99
40) 1,2-Dichloropropane	9.37	63	132927	26.218	ug/L	99
41) Bromodichloromethane	9.64	83	168140	27.431	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	207976	25.993	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	170480	50.926	ug/L	100
44) Toluene	10.38	91	579381	25.231	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	167652	26.497	ug/L	95
46) 1,1,2-Trichloroethane	10.79	97	100179	26.891	ug/L	99
47) Tetrachloroethene	10.86	164	123535	24.669	ug/L	95
49) 2-Hexanone	10.96	43	113156	46.886	ug/L	97
50) Dibromochloromethane	11.13	129	121043	27.643	ug/L	99
51) 1,2-Dibromoethane	11.23	107	95157	26.326	ug/L	97
52) Chlorobenzene	11.65	112	370726	25.752	ug/L	96
53) Ethylbenzene	11.73	91	639667	25.385	ug/L	99
54) m,p-Xylene	11.84	106	247122	25.235	ug/L	98
55) o-xylene	12.16	106	238726	26.033	ug/L	98
56) Styrene	12.18	104	412807	26.648	ug/L	94
57) Isopropylbenzene	12.46	105	632148	25.072	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	120028	27.597	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	87246	26.672	ug/L	100
62) Bromoform	12.35	173	74999	25.720	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	298222	23.870	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	297851	24.129	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	274167	24.781	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.48	75	18132	24.065	ug/L	91
67) 1,3,5-Trichlorobenzene	14.63	180	228026	23.948	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	178523	23.845	ug/L	100
69) Naphthalene	15.36	128	314638	23.656	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	161910	24.505	ug/L	99

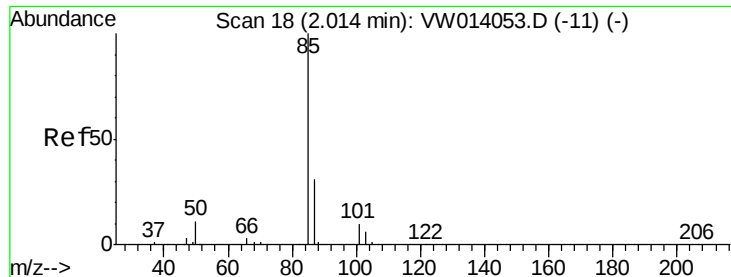
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 20.595 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampled :

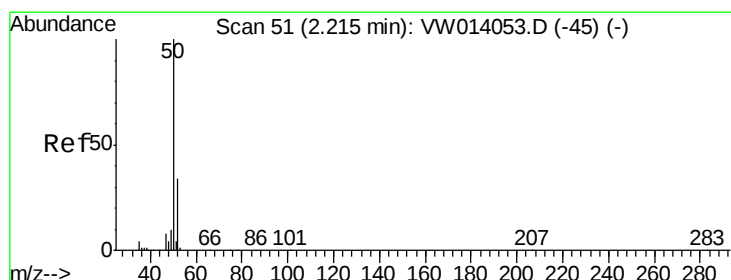
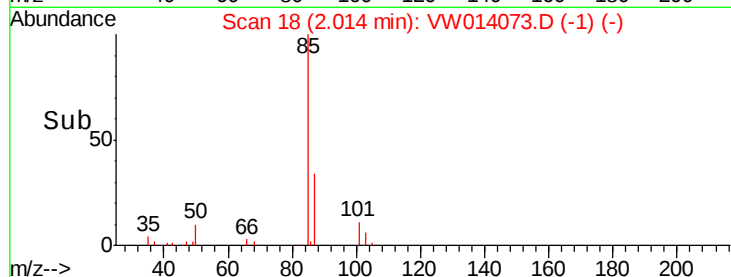
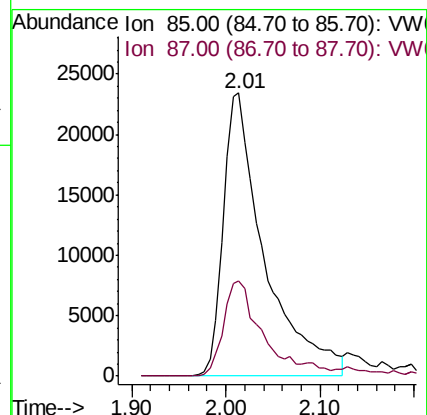
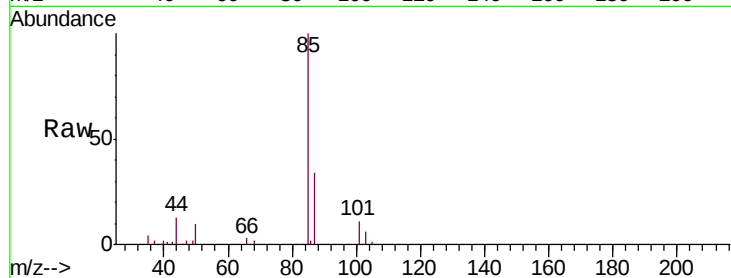
VSTD02512

Tgt Ion: 85 Resp: 71232

Ion Ratio Lower Upper

85 100

87 28.6 22.1 41.1



#3

Chloromethane

Concen: 21.007 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW014073.D

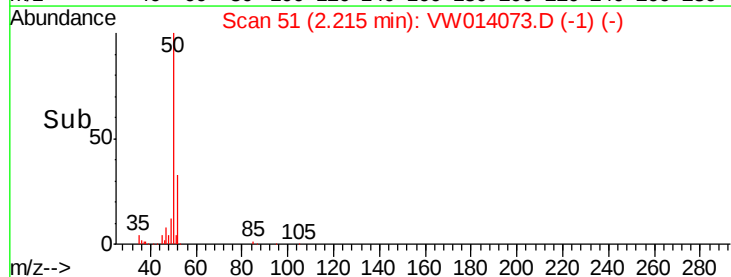
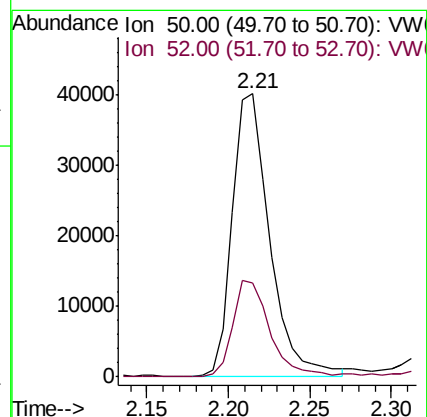
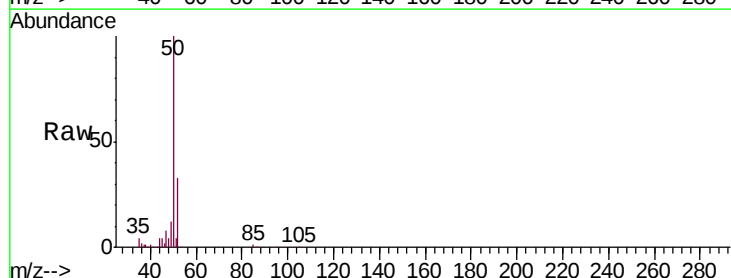
Acq: 18 Nov 2019 20:10

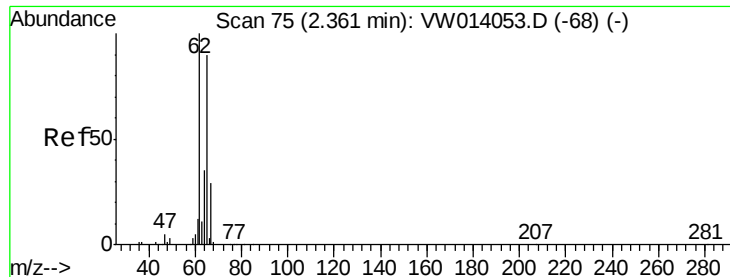
Tgt Ion: 50 Resp: 64538

Ion Ratio Lower Upper

50 100

52 33.3 23.8 44.2





#5

Vinyl chloride

Concen: 25.173 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

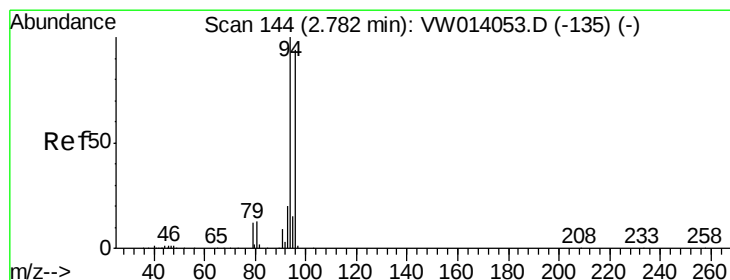
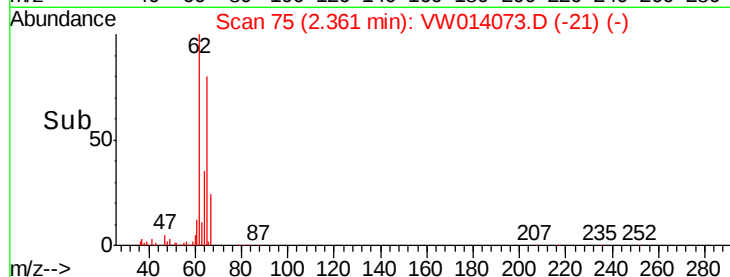
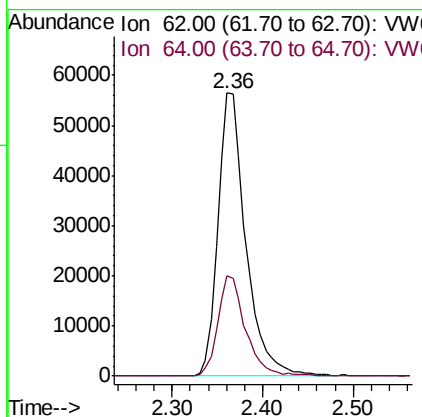
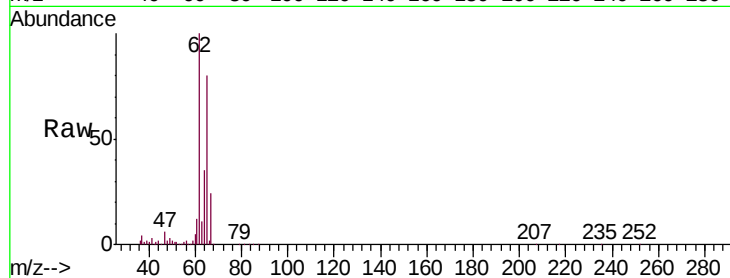
VSTD02512

Tgt Ion: 62 Resp: 120749

Ion Ratio Lower Upper

62 100

64 35.3 21.8 40.4



#6

Bromomethane

Concen: 25.375 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW014073.D

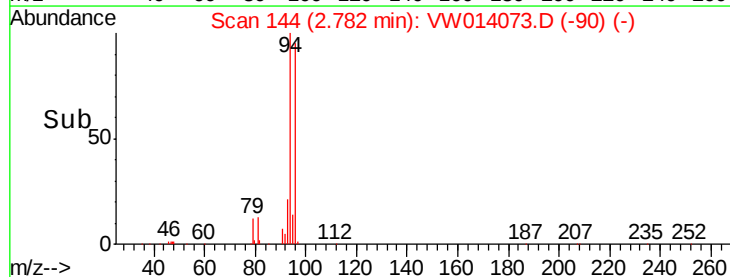
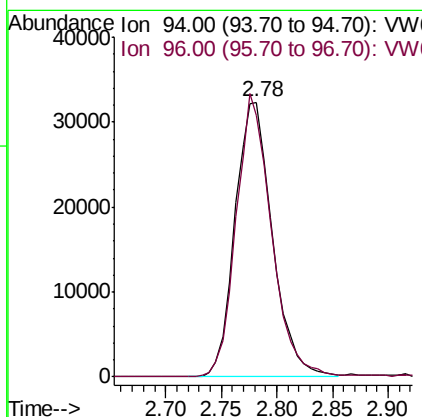
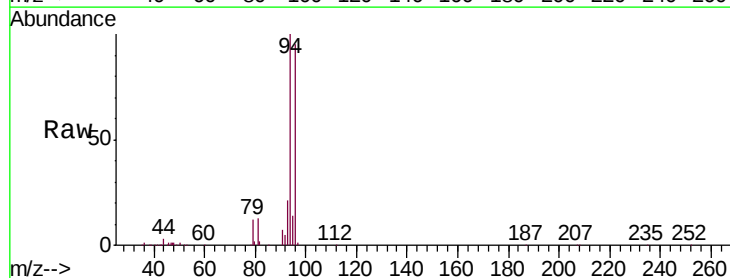
Acq: 18 Nov 2019 20:10

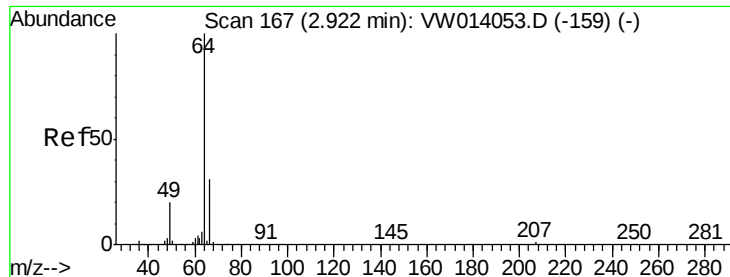
Tgt Ion: 94 Resp: 75360

Ion Ratio Lower Upper

94 100

96 97.3 9.4 178.8

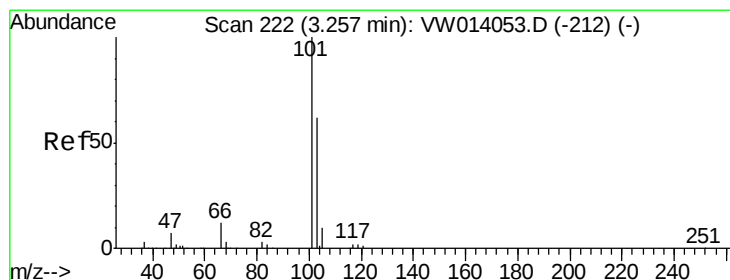
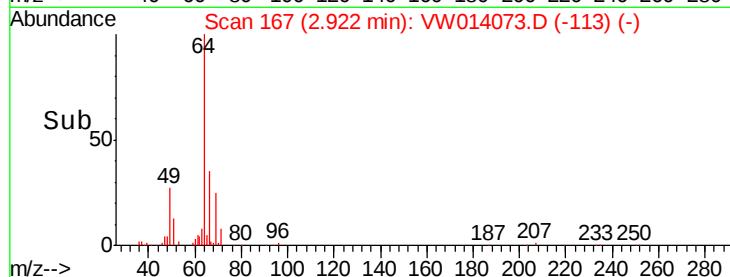
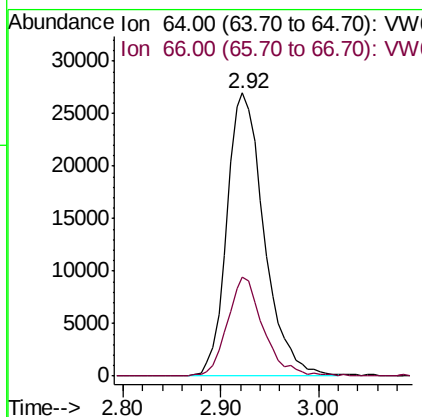
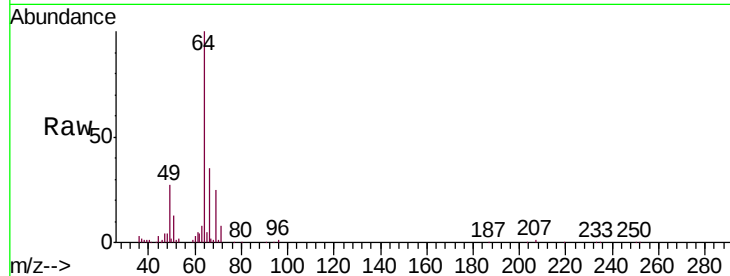




#8
Chloroethane
Concen: 24.975 ug/L
RT: 2.92 min Scan# 167
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

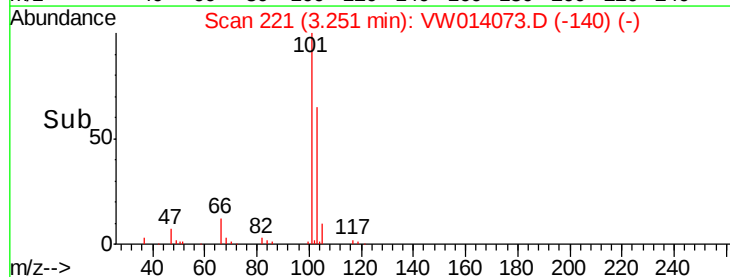
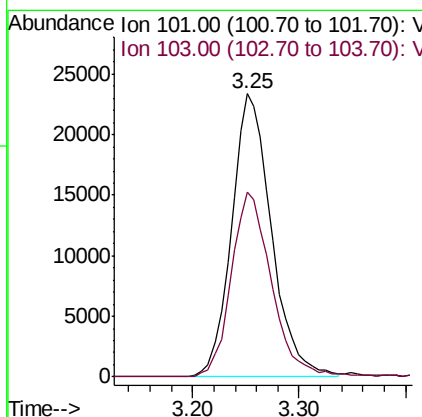
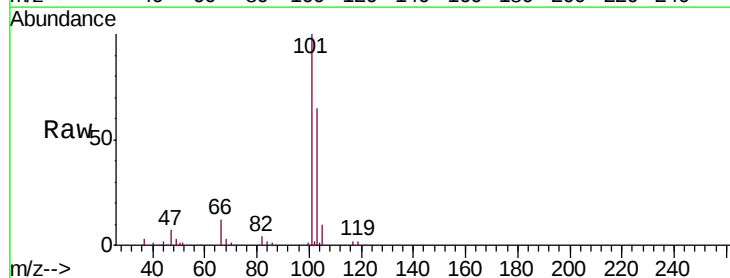
Instrument :
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ClientSampleId :
VSTD02512

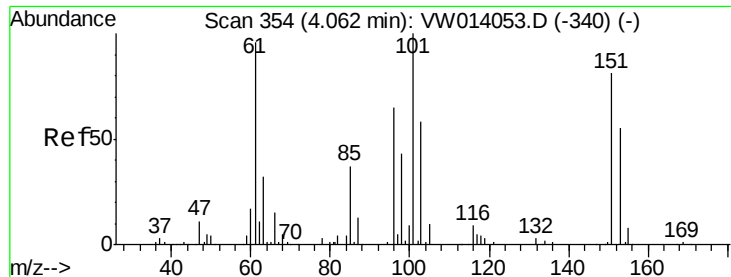
Tgt Ion: 64 Resp: 71262
Ion Ratio Lower Upper
64 100
66 35.2 21.2 39.4



#9
Trichlorofluoromethane
Concen: 18.724 ug/L
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

Tgt Ion: 101 Resp: 61245
Ion Ratio Lower Upper
101 100
103 65.3 45.4 84.2





#11

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

Concen: 24.608 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

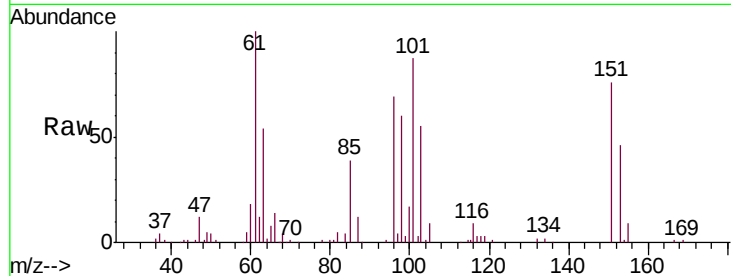
Tgt Ion: 101 Resp: 118854

Ion Ratio Lower Upper

101 100

85 42.1 31.4 47.2

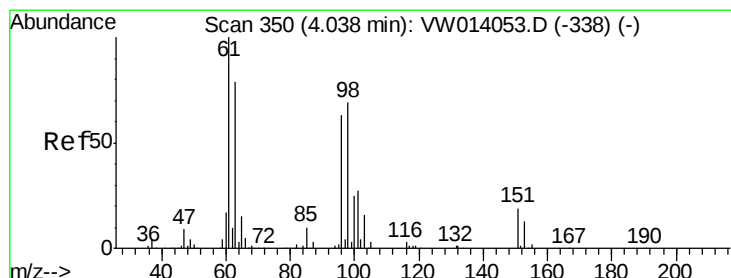
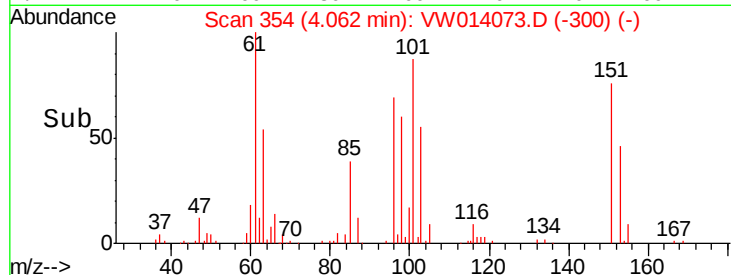
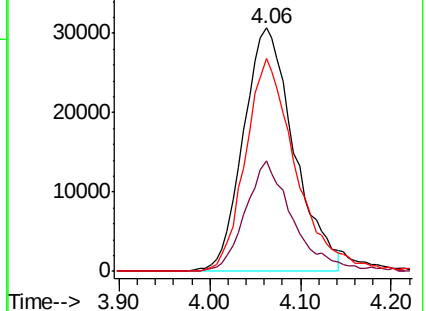
151 85.8 66.9 100.3



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: 24.957 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

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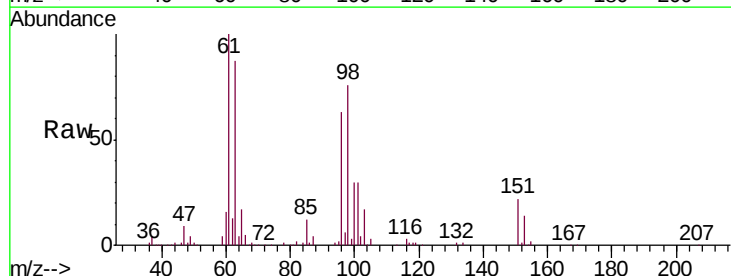
Tgt Ion: 96 Resp: 122527

Ion Ratio Lower Upper

96 100

61 159.8 109.8 204.0

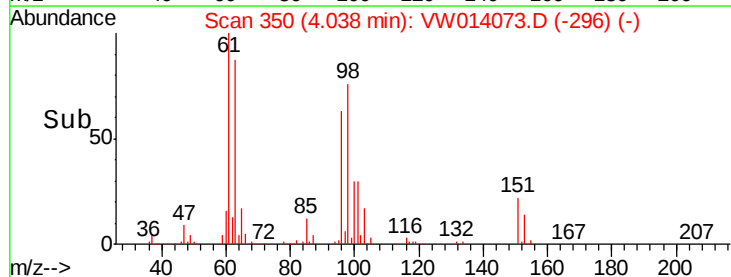
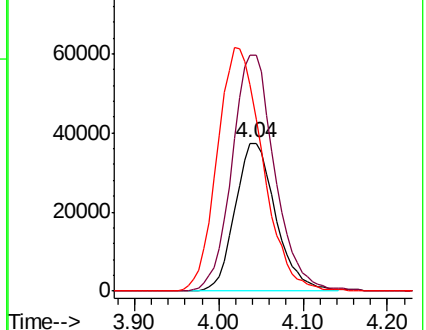
63 139.2 80.7 149.9

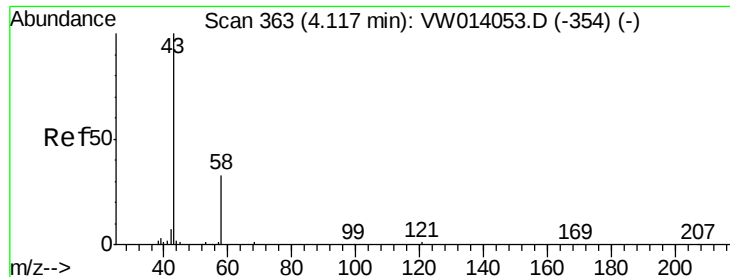


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 32.004 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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Acq: 18 Nov 2019 20:10

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ClientSampleId :

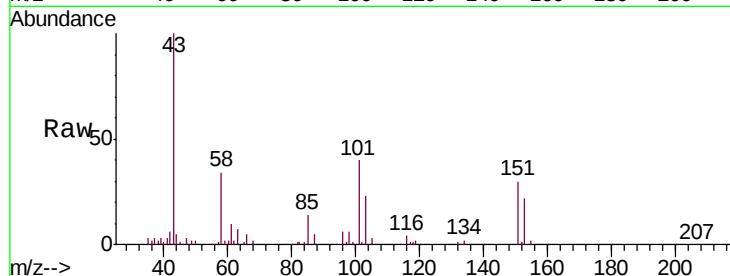
VSTD02512

Tgt Ion: 43 Resp: 43900

Ion Ratio Lower Upper

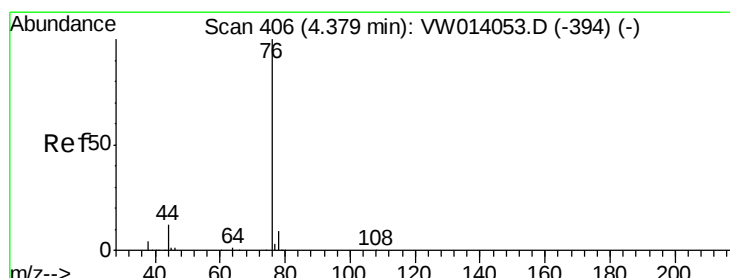
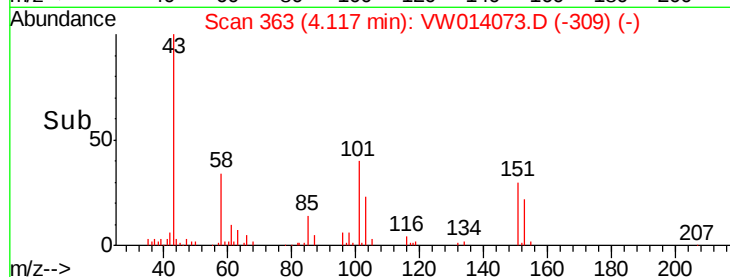
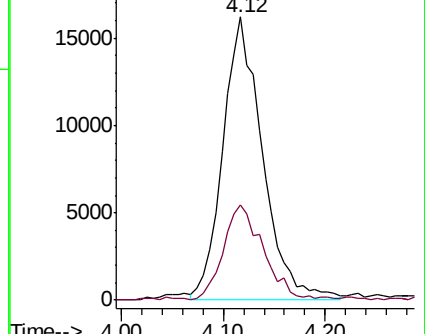
43 100

58 33.3 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 24.333 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014073.D

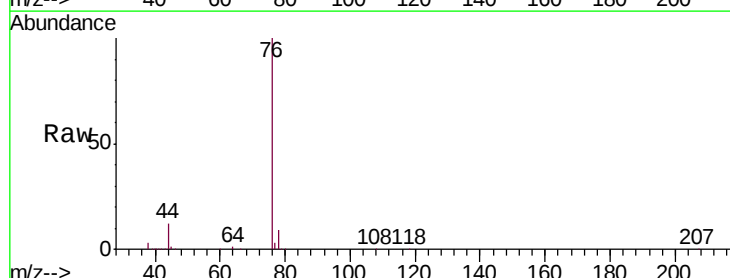
Acq: 18 Nov 2019 20:10

Tgt Ion: 76 Resp: 340013

Ion Ratio Lower Upper

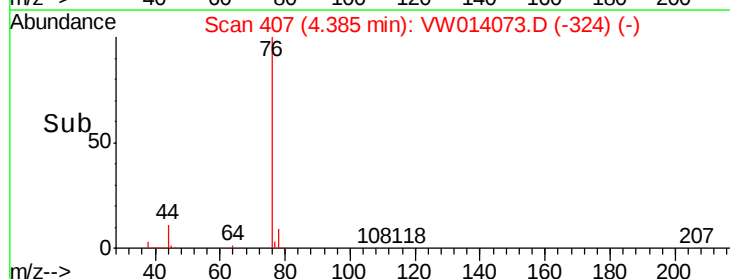
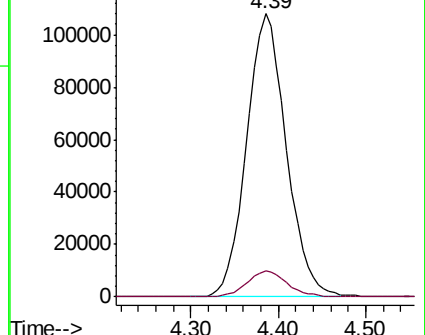
76 100

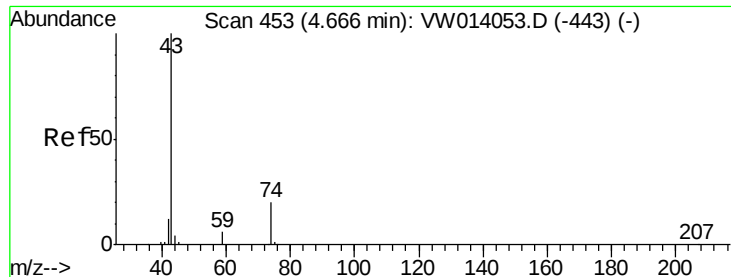
78 9.2 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

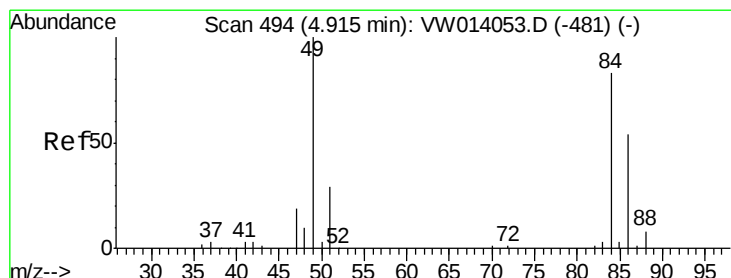
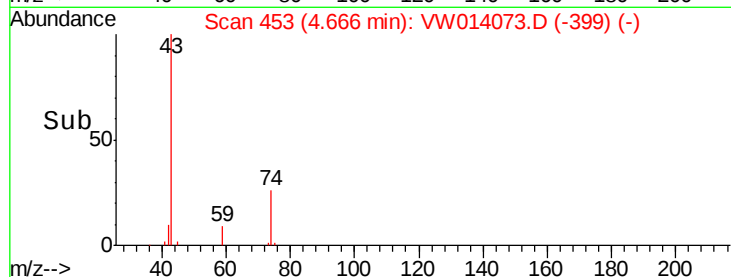
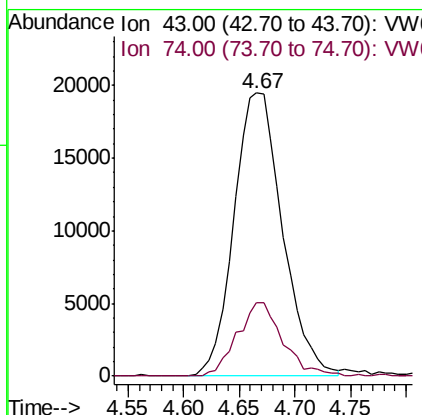
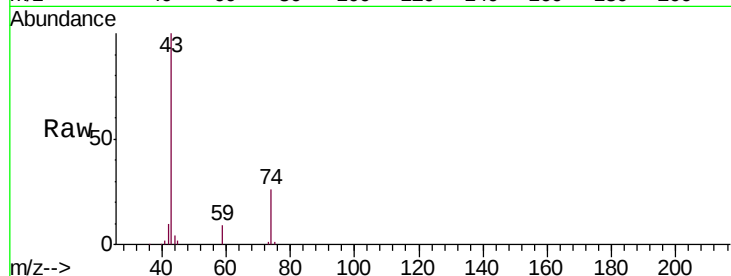




#15
Methyl Acetate
Concen: 26.611 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

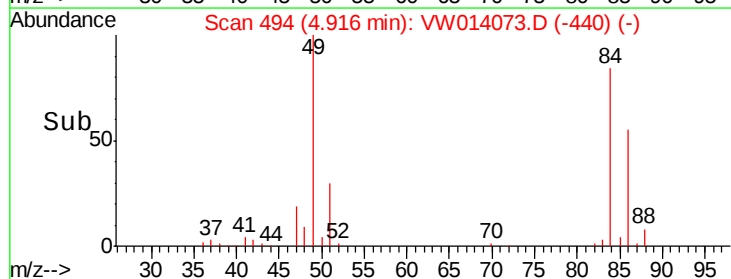
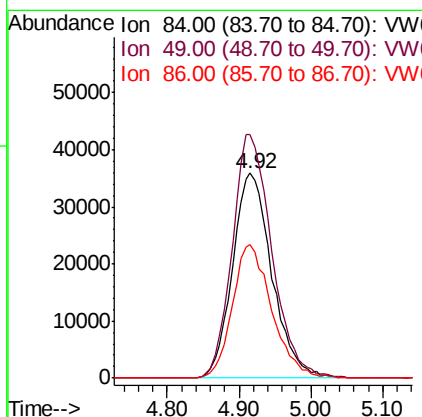
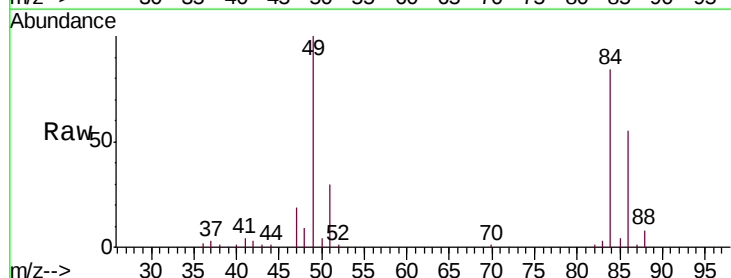
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

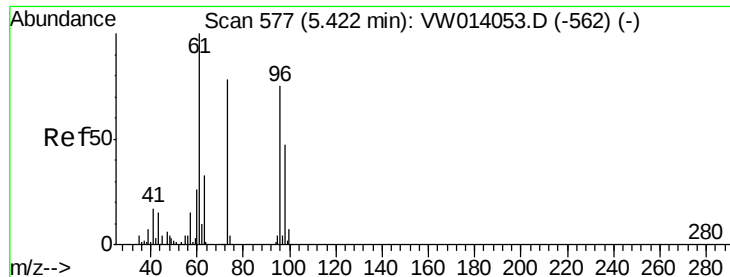
Tgt Ion: 43 Resp: 59059
Ion Ratio Lower Upper
43 100
74 23.3 19.3 28.9



#16
Methylene chloride
Concen: 24.337 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

Tgt Ion: 84 Resp: 136262
Ion Ratio Lower Upper
84 100
49 118.9 84.2 156.4
86 65.3 43.7 81.1

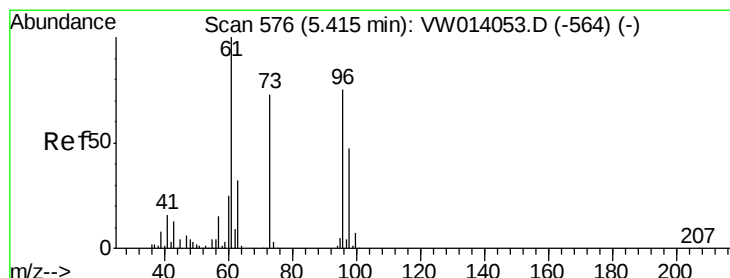
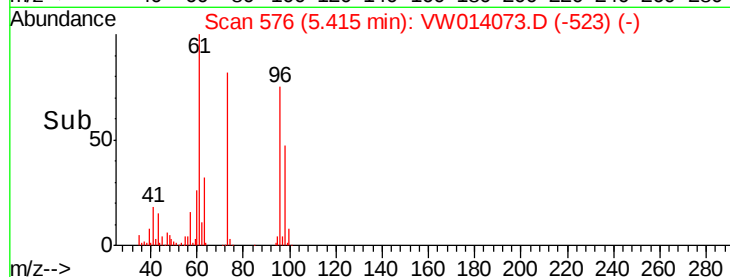
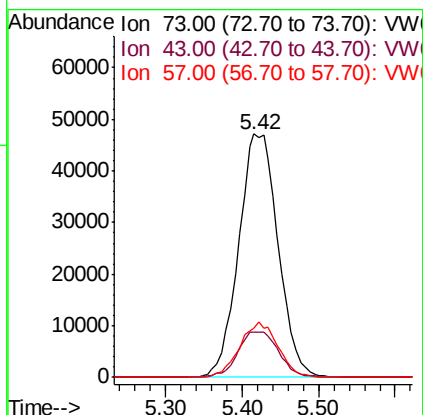
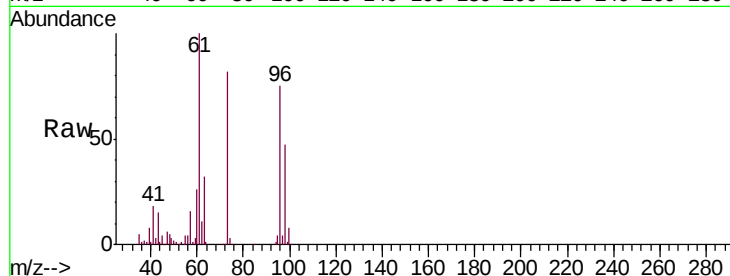




#17
Methyl tert-butyl Ether
Concen: 26.656 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

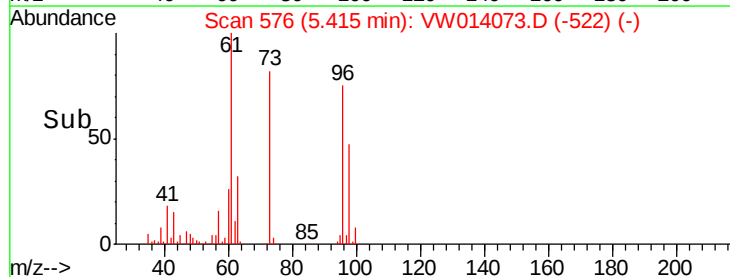
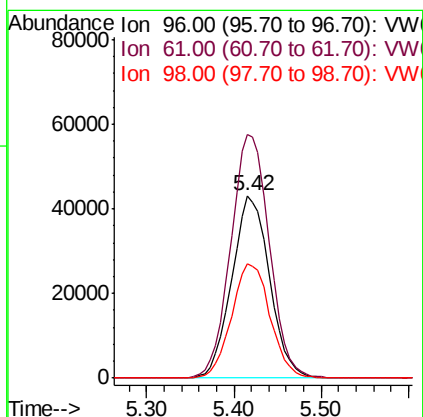
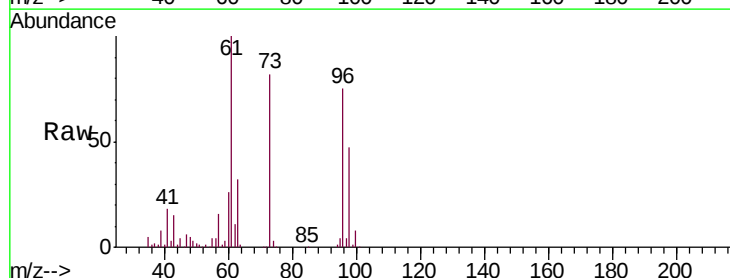
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

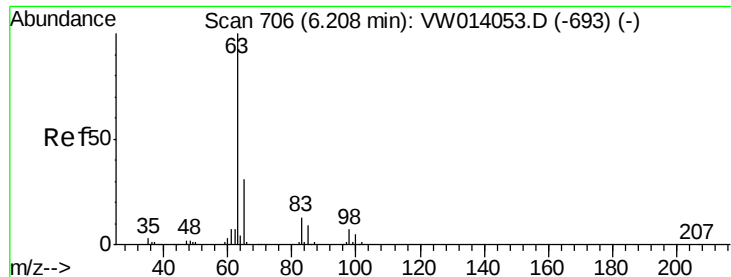
Tgt Ion: 73 Resp: 168833
Ion Ratio Lower Upper
73 100
43 10.7 15.5 23.3#
57 21.8 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 25.271 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

Tgt Ion: 96 Resp: 129379
Ion Ratio Lower Upper
96 100
61 133.5 90.6 168.2
98 62.8 42.9 79.7





#19

1,1-Dichloroethane

Concen: 26.778 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

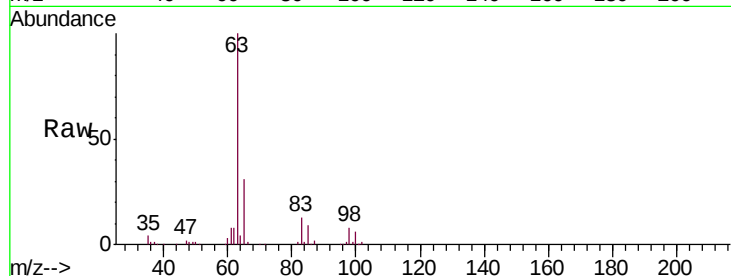
Tgt Ion: 63 Resp: 230922

Ion Ratio Lower Upper

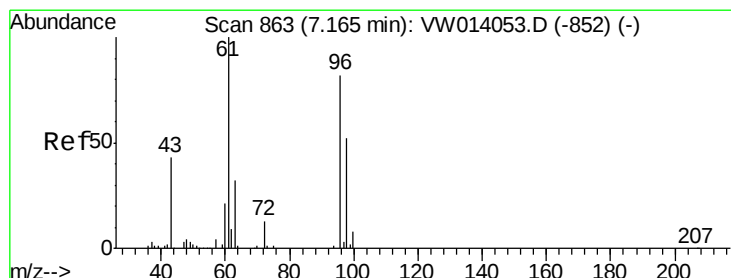
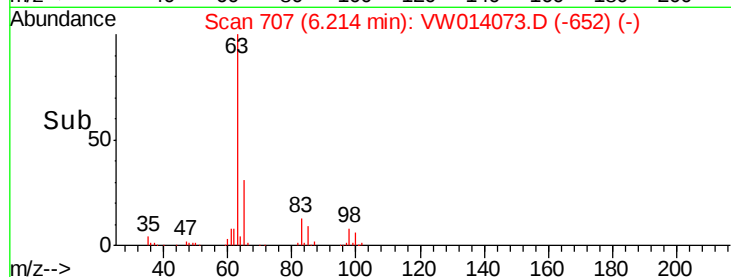
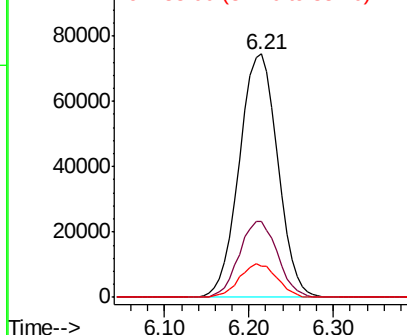
63 100

65 31.1 22.1 41.1

83 12.6 9.0 16.6



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



#21

2-Butanone

Concen: 43.701 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014073.D

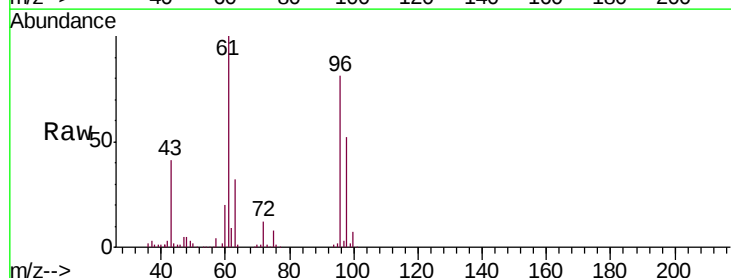
Acq: 18 Nov 2019 20:10

Tgt Ion: 43 Resp: 77013

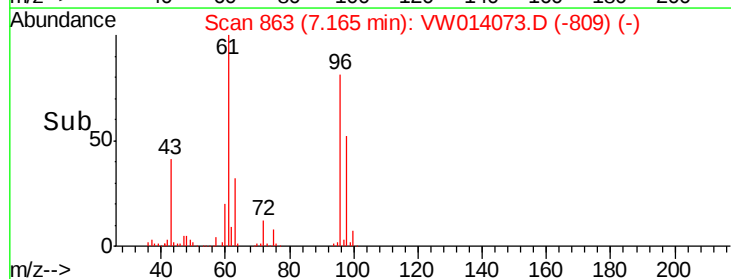
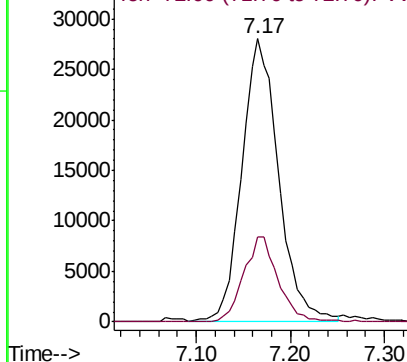
Ion Ratio Lower Upper

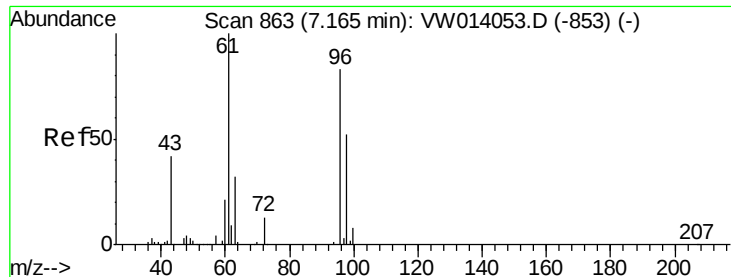
43 100

72 28.1 14.1 42.2



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



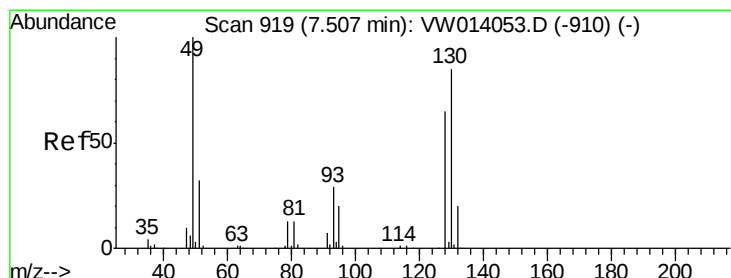
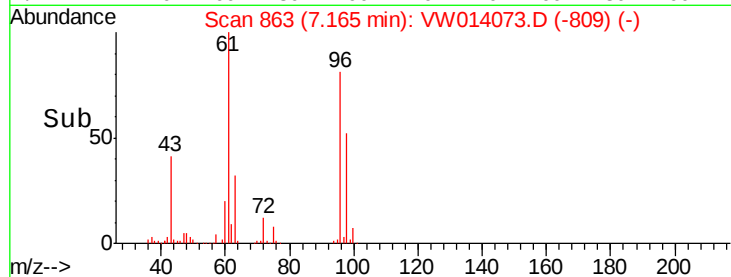
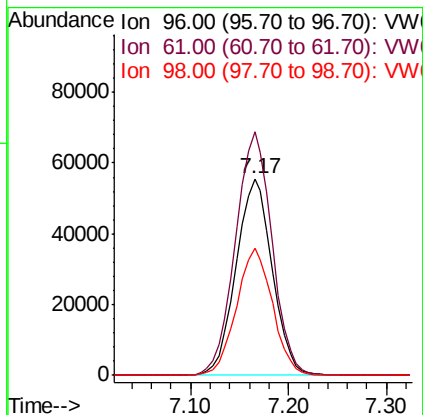
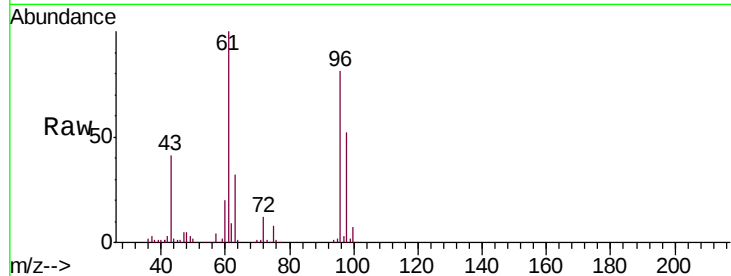


#22

cis-1,2-Dichloroethene
 Concen: 26.387 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014073.D
 Acq: 18 Nov 2019 20:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

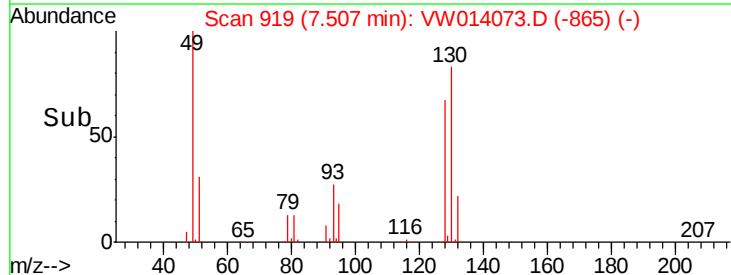
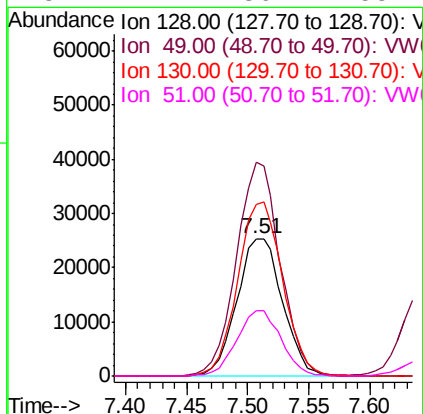
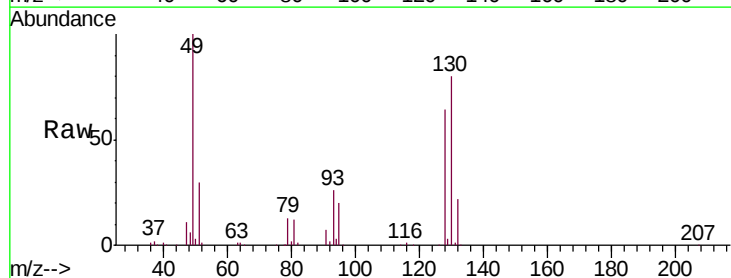
Tgt Ion: 96 Resp: 142160
 Ion Ratio Lower Upper
 96 100
 61 124.0 86.9 161.5
 98 64.8 45.5 84.5

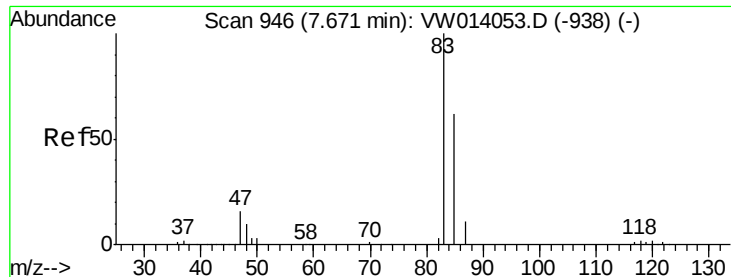


#23

Bromochloromethane
 Concen: 27.776 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW014073.D
 Acq: 18 Nov 2019 20:10

Tgt Ion: 128 Resp: 65689
 Ion Ratio Lower Upper
 128 100
 49 155.7 95.1 176.5
 130 124.7 85.0 158.0
 51 47.2 36.7 55.1





#25

Chloroform

Concen: 27.823 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

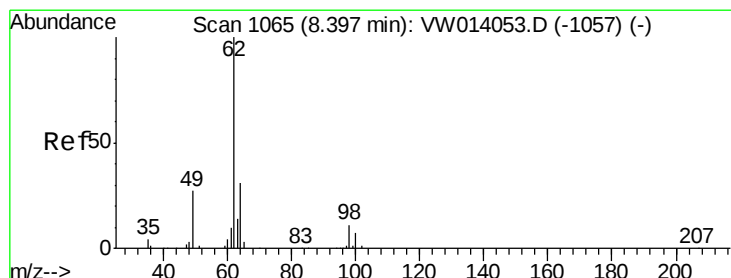
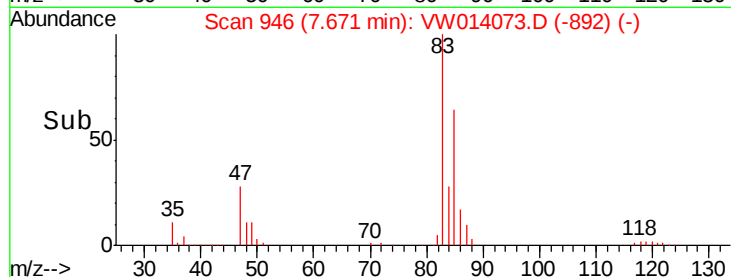
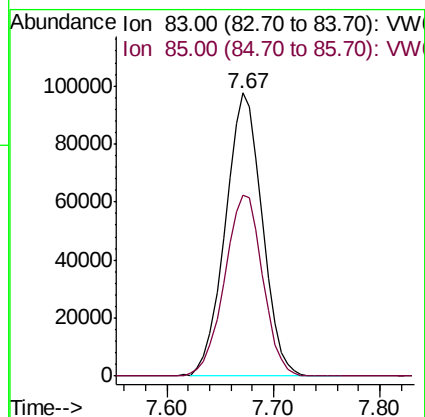
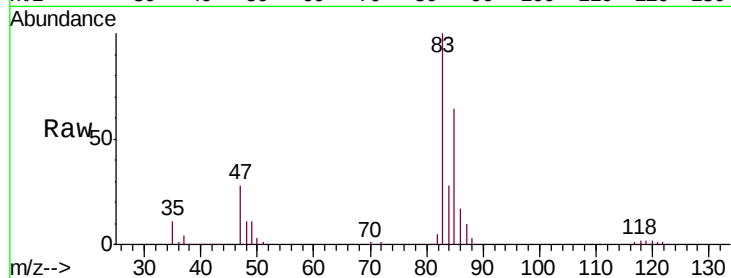
VSTD02512

Tgt Ion: 83 Resp: 235621

Ion Ratio Lower Upper

83 100

85 66.4 46.1 85.7



#27

1,2-Dichloroethane

Concen: 28.906 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014073.D

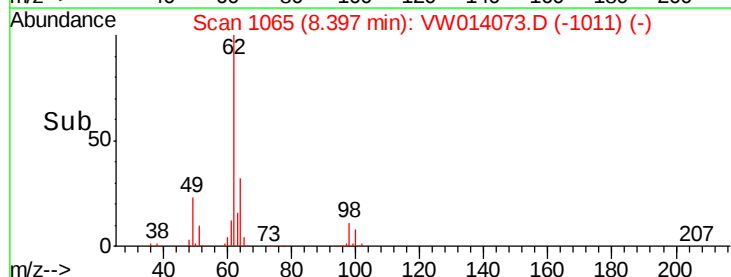
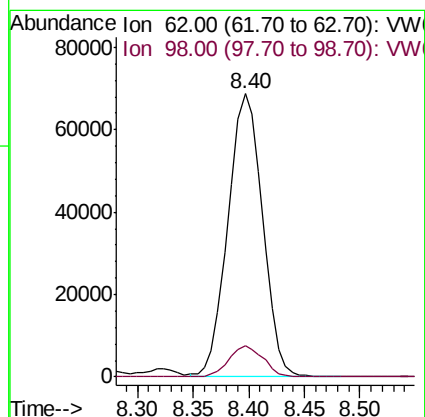
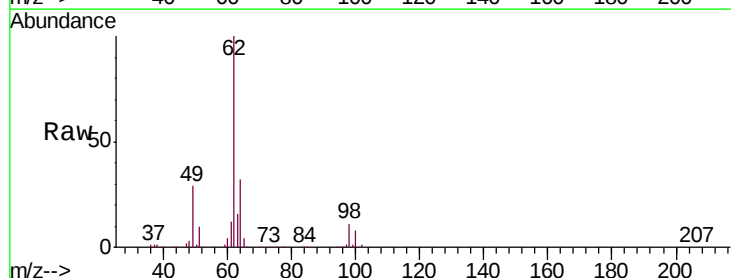
Acq: 18 Nov 2019 20:10

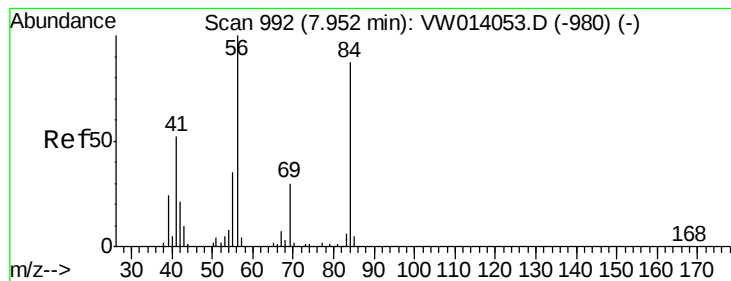
Tgt Ion: 62 Resp: 148207

Ion Ratio Lower Upper

62 100

98 11.0 9.3 13.9





#30

Cyclohexane

Concen: 22.919 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

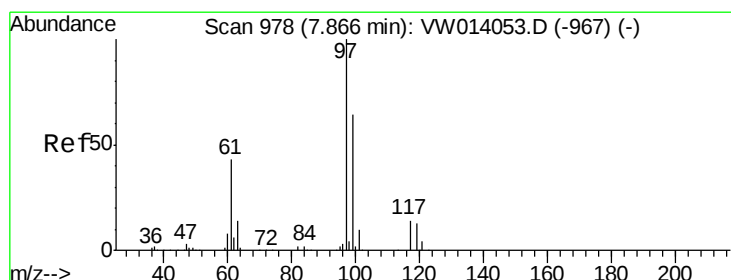
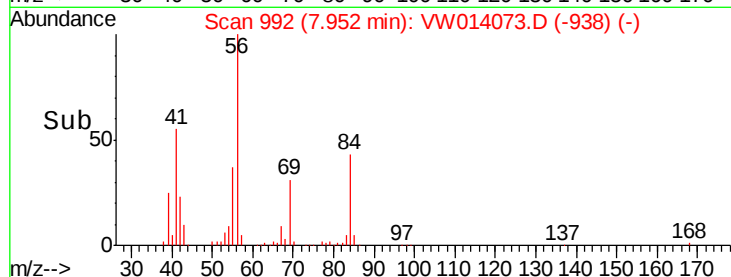
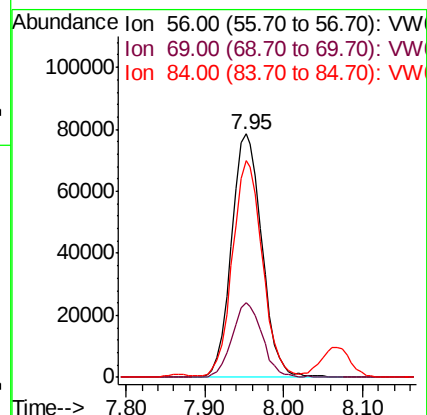
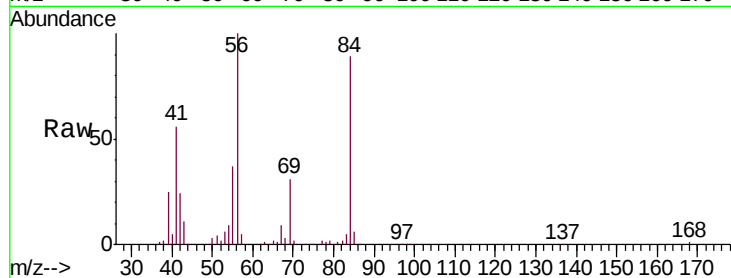
Tgt Ion: 56 Resp: 210601

Ion Ratio Lower Upper

56 100

69 30.1 24.6 37.0

84 87.4 70.2 105.2



#31

1,1,1-Trichloroethane

Concen: 25.007 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

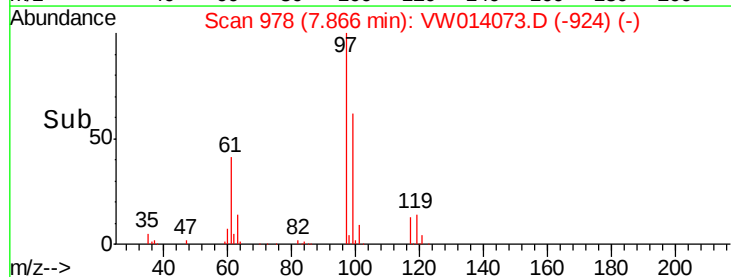
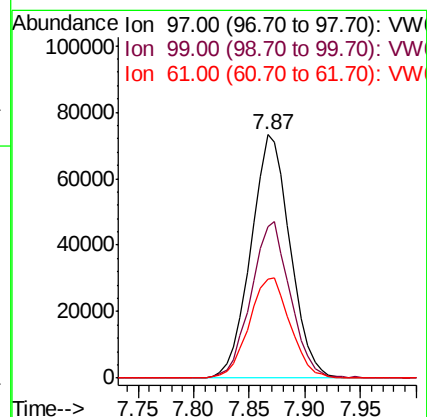
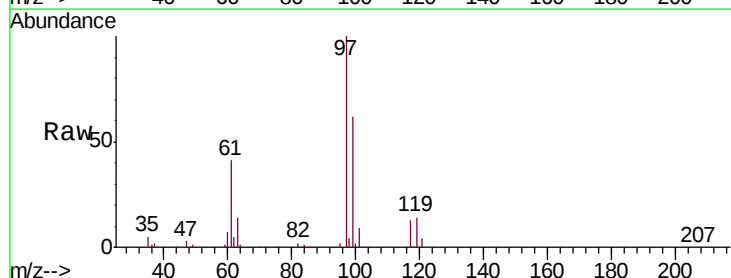
Tgt Ion: 97 Resp: 179952

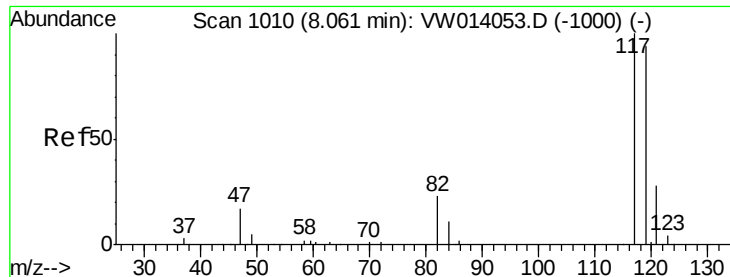
Ion Ratio Lower Upper

97 100

99 63.9 51.1 76.7

61 43.0 32.8 49.2





#32

Carbon tetrachloride

Concen: 24.827 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

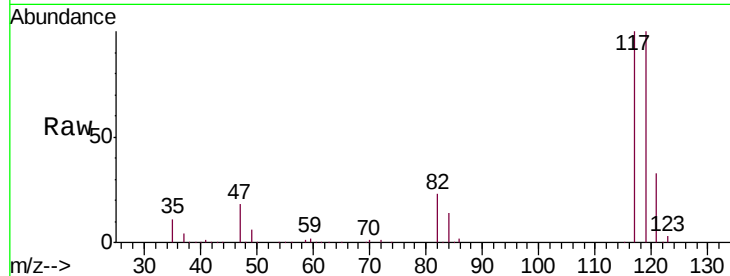
VSTD02512

Tgt Ion:117 Resp: 171503

Ion Ratio Lower Upper

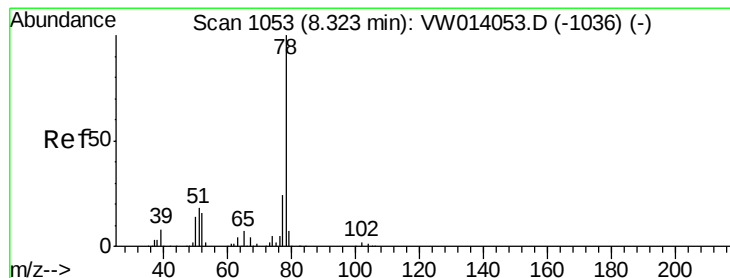
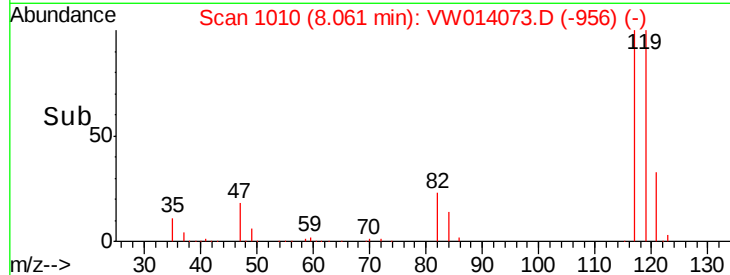
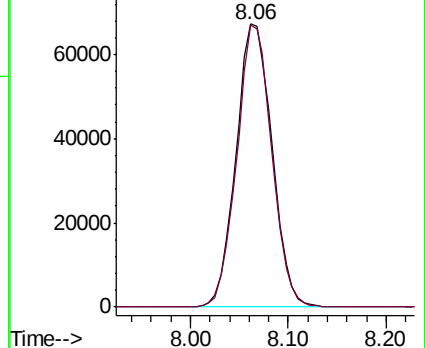
117 100

119 97.0 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.476 ug/L

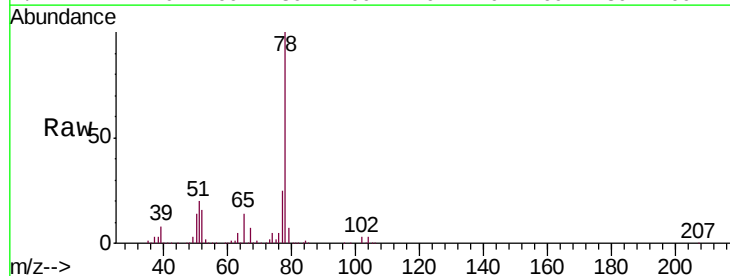
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

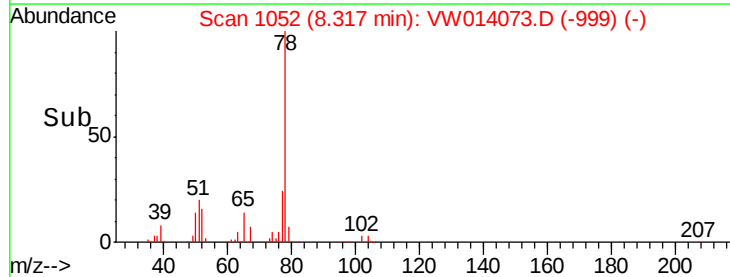
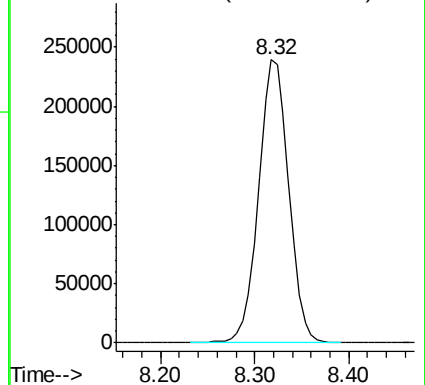
Lab File: VW014073.D

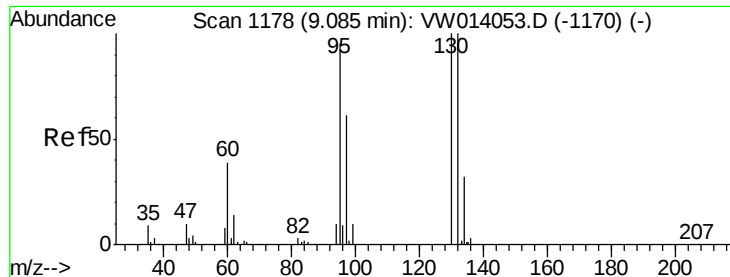
Acq: 18 Nov 2019 20:10

Tgt Ion: 78 Resp: 536558



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.747 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tgt Ion: 95 Resp: 139037

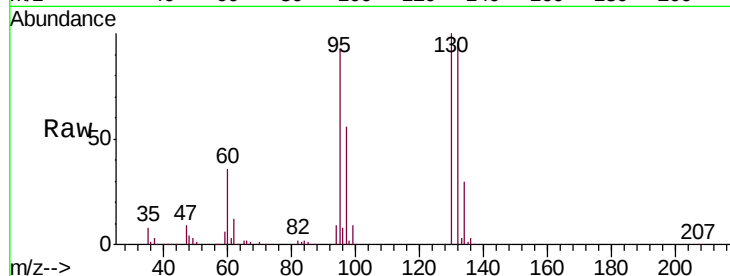
Ion Ratio Lower Upper

95 100

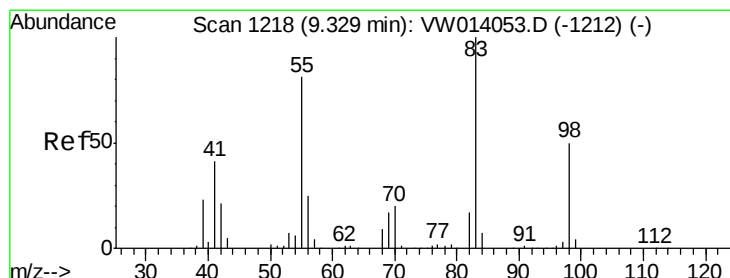
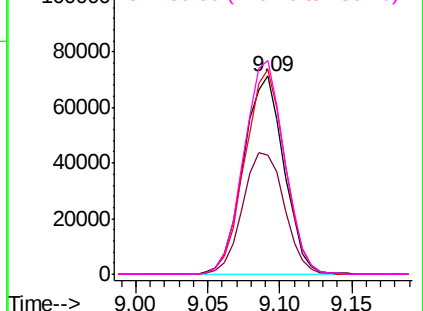
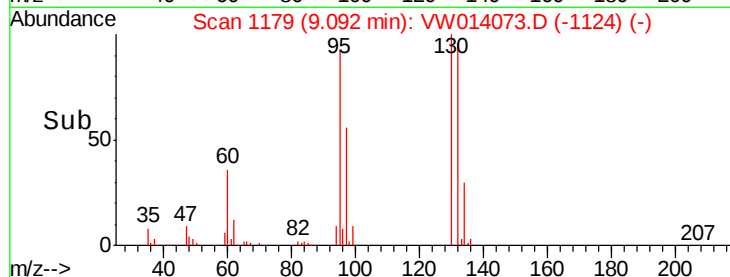
97 63.6 45.1 83.9

132 102.0 73.7 136.9

130 107.9 76.6 142.2



Abundance Ion 95.00 (94.70 to 95.70): VW
120000
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: 22.864 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

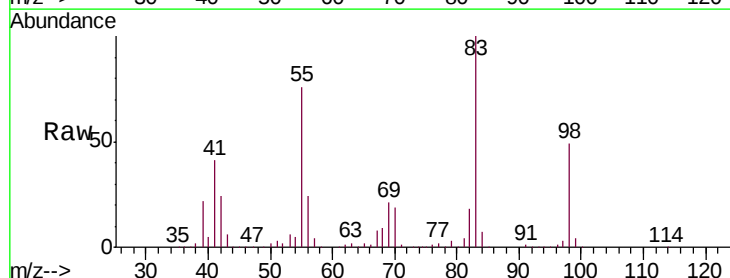
Tgt Ion: 83 Resp: 230324

Ion Ratio Lower Upper

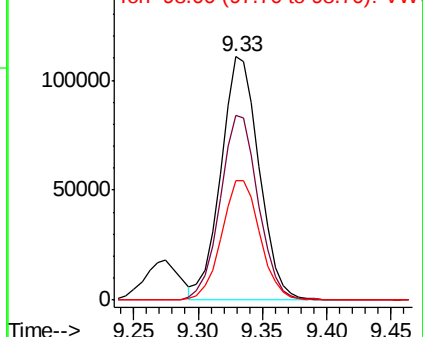
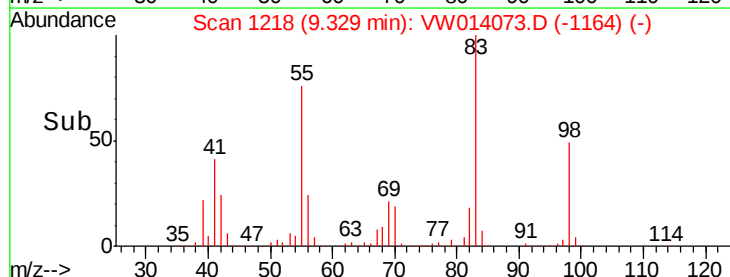
83 100

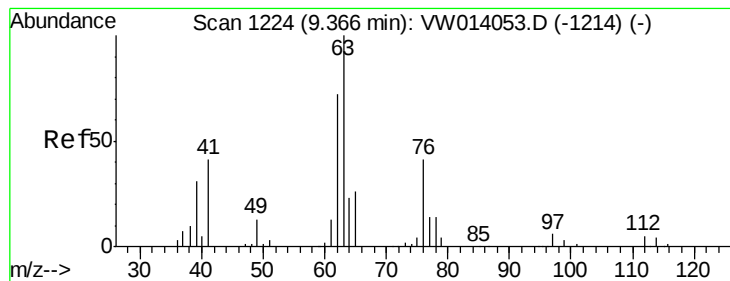
55 75.4 59.8 89.8

98 49.7 39.5 59.3



Abundance Ion 83.00 (82.70 to 83.70): VW
150000
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 26.218 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

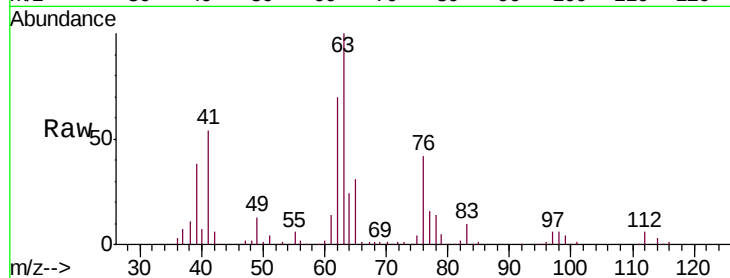
VSTD02512

Tgt Ion: 63 Resp: 132927

Ion Ratio Lower Upper

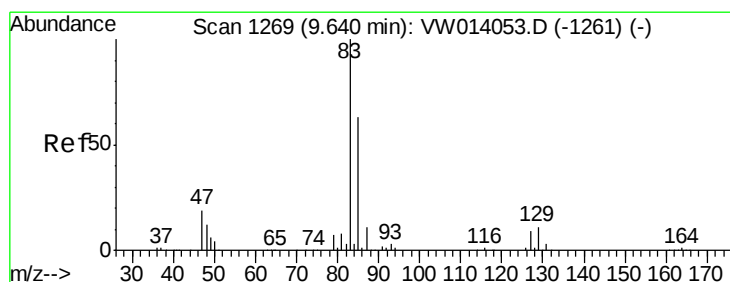
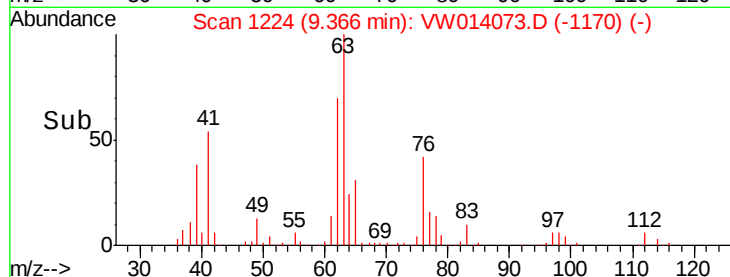
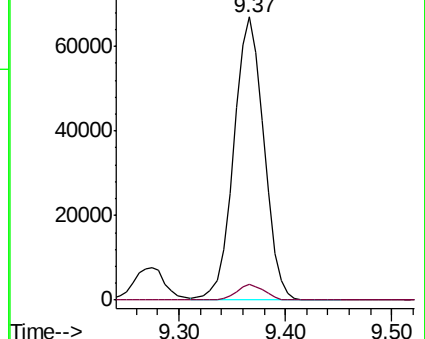
63 100

112 5.3 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 27.431 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

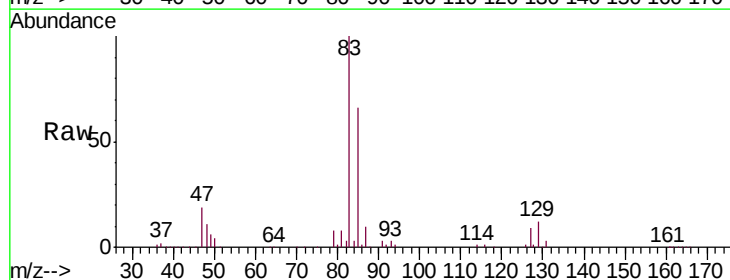
Tgt Ion: 83 Resp: 168140

Ion Ratio Lower Upper

83 100

85 65.7 45.1 83.7

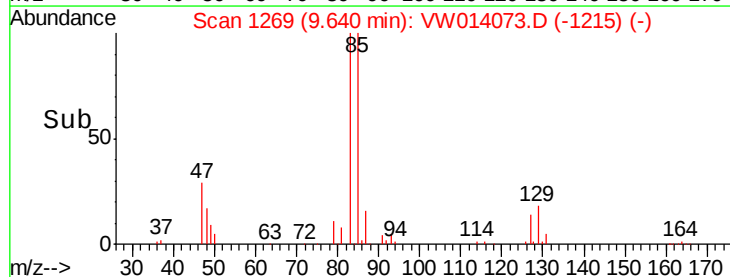
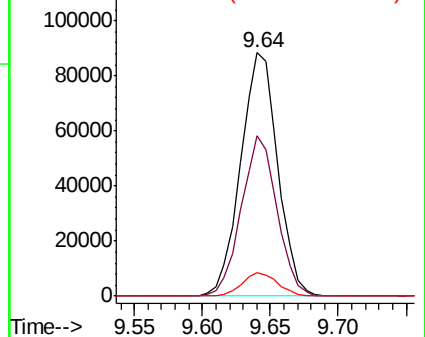
127 9.4 7.4 11.0

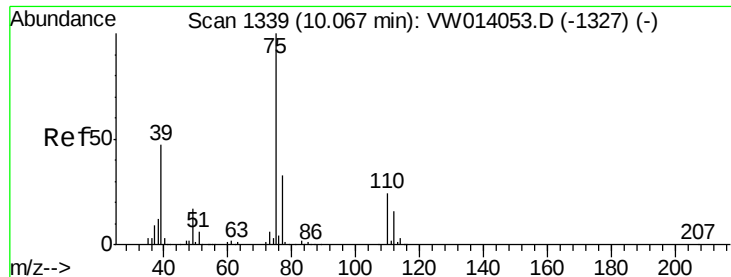


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 25.993 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampled :

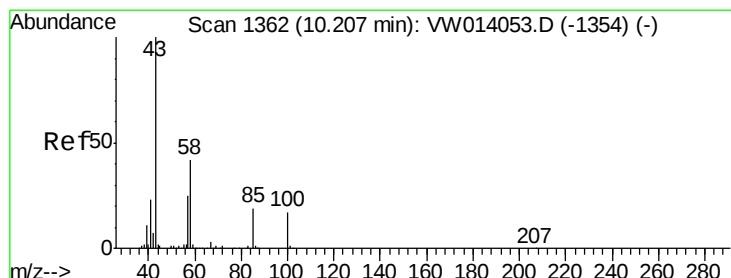
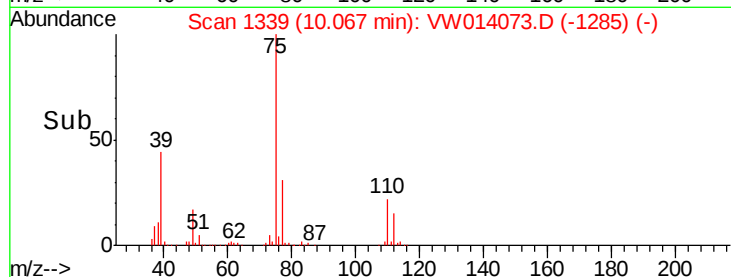
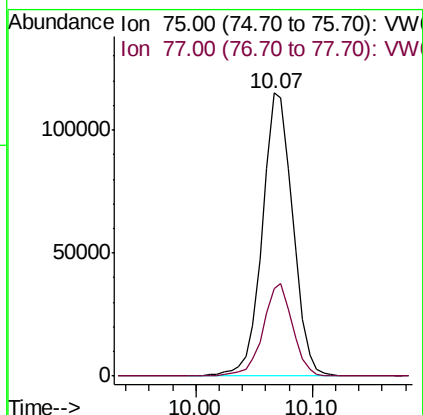
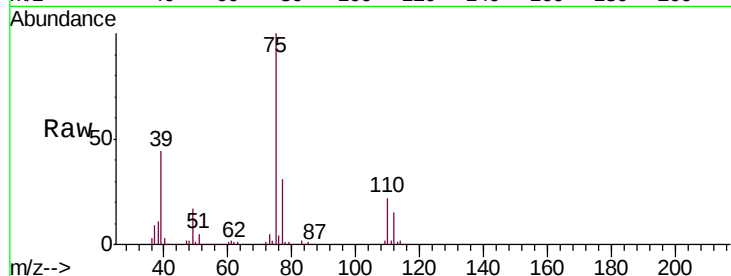
VSTD02512

Tgt Ion: 75 Resp: 207976

Ion Ratio Lower Upper

75 100

77 30.9 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 50.926 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

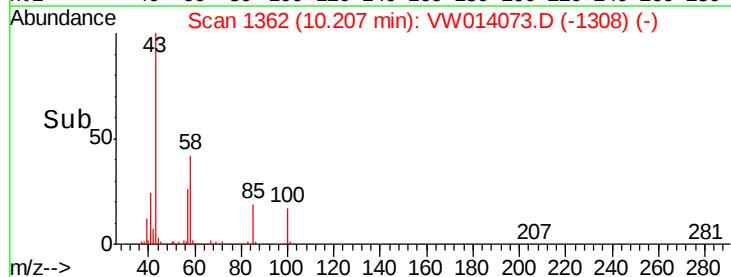
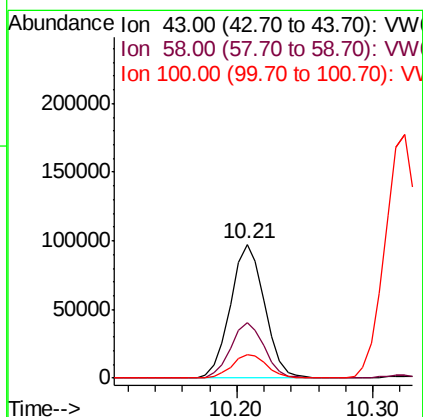
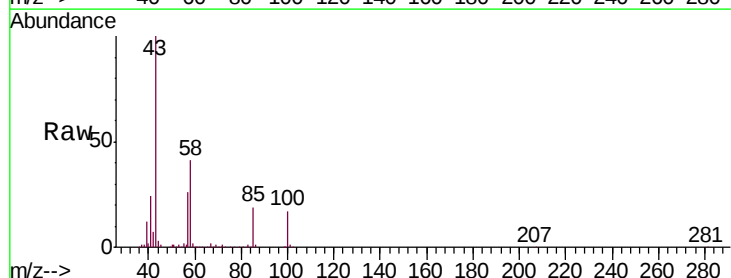
Tgt Ion: 43 Resp: 170480

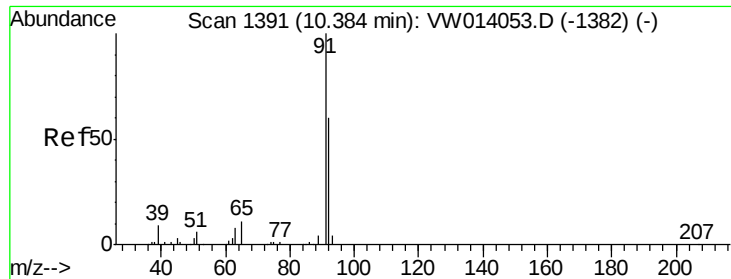
Ion Ratio Lower Upper

43 100

58 40.5 32.6 49.0

100 17.3 13.8 20.8





#44

Toluene

Concen: 25.231 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

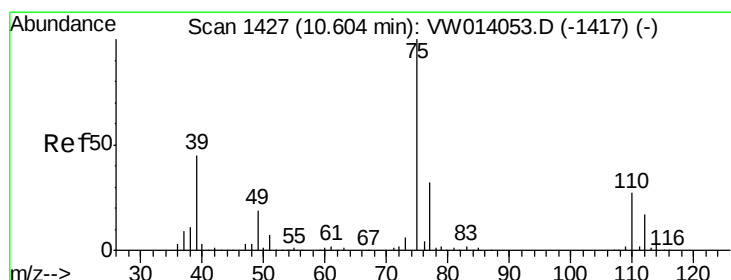
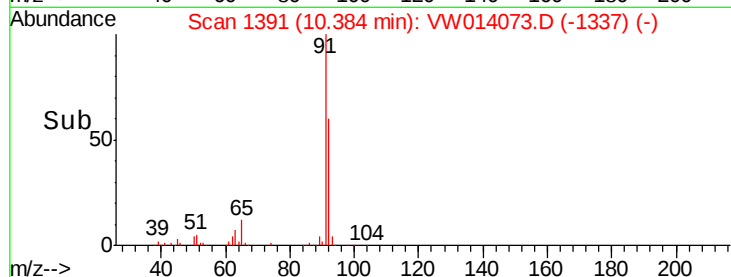
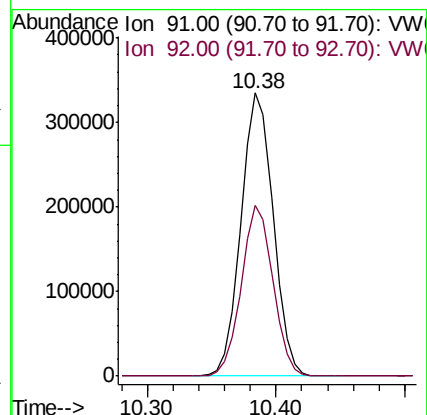
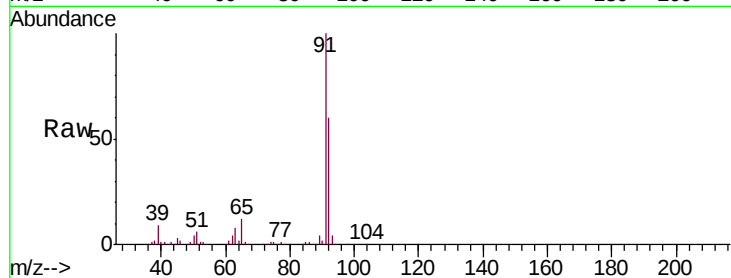
VSTD02512

Tgt Ion: 91 Resp: 579381

Ion Ratio Lower Upper

91 100

92 60.2 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 26.497 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014073.D

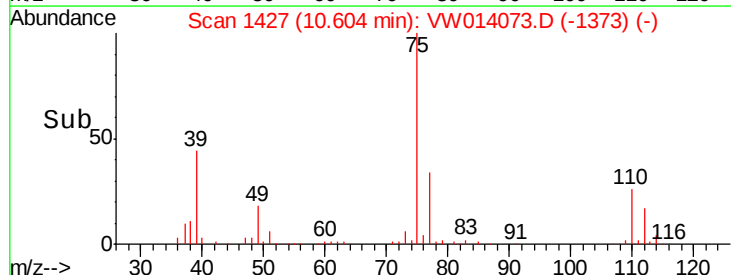
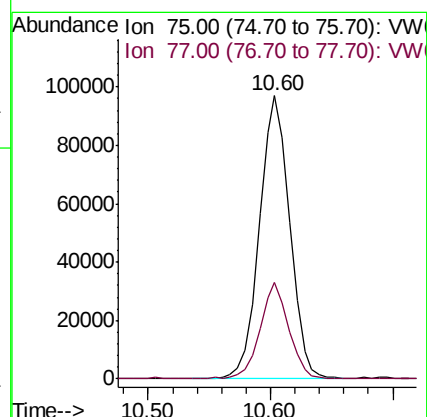
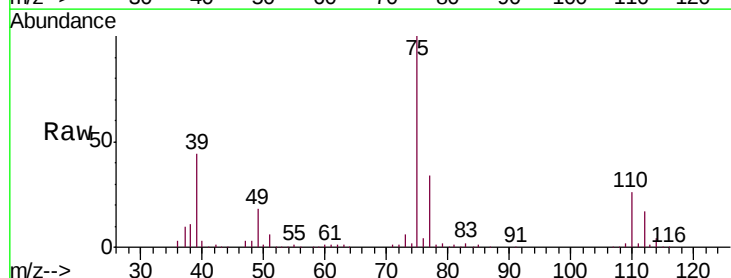
Acq: 18 Nov 2019 20:10

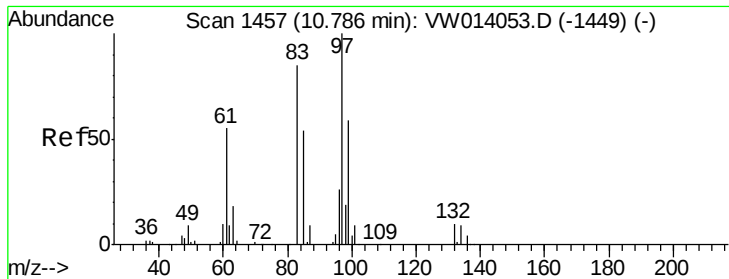
Tgt Ion: 75 Resp: 167652

Ion Ratio Lower Upper

75 100

77 33.9 21.8 40.6

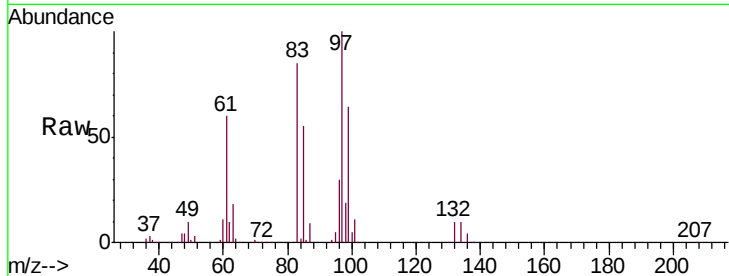




#46
 1,1,2-Trichloroethane
 Concen: 26.891 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW014073.D
 Acq: 18 Nov 2019 20:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

Tgt Ion:	97	Resp:	100179
Ion	Ratio	Lower	Upper
97	100		
83	85.0	58.9	109.5
85	54.7	38.1	70.9
99	64.0	46.5	86.3



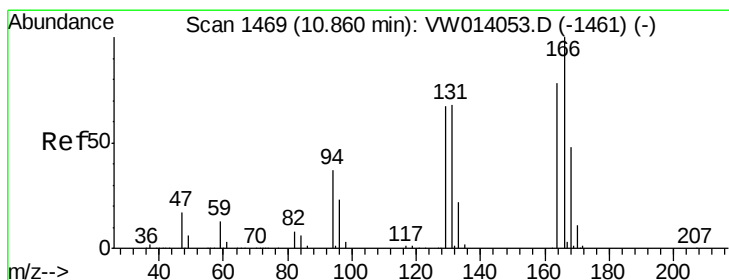
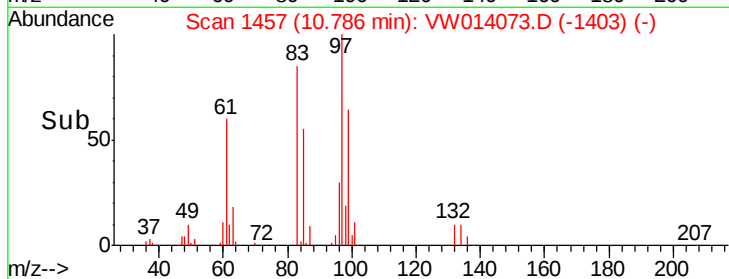
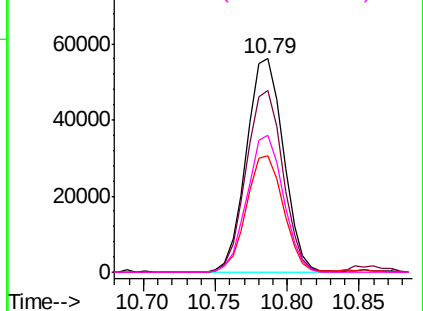
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

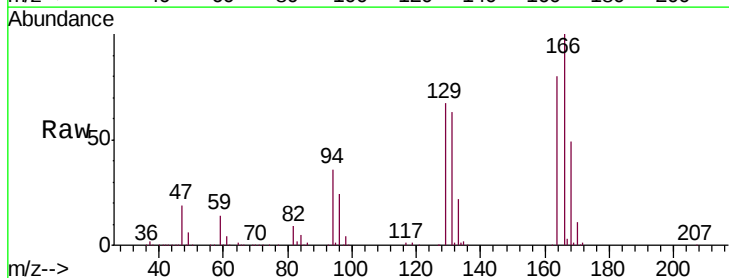
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47
 Tetrachloroethene
 Concen: 24.669 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW014073.D
 Acq: 18 Nov 2019 20:10

Tgt Ion:	164	Resp:	123535
Ion	Ratio	Lower	Upper
164	100		
129	83.8	60.6	112.6
131	78.3	59.1	109.7
166	124.8	90.8	168.6



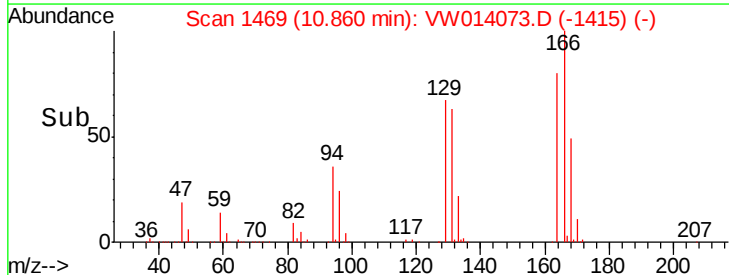
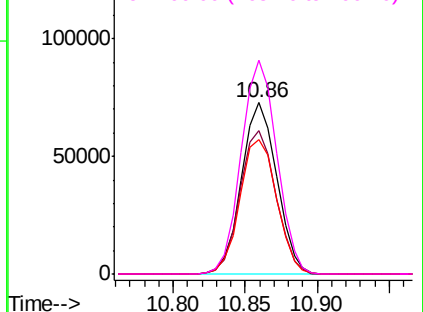
Abundance

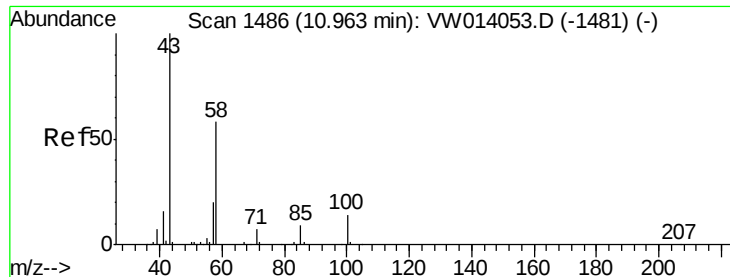
Ion 164.00 (163.70 to 164.70): V

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

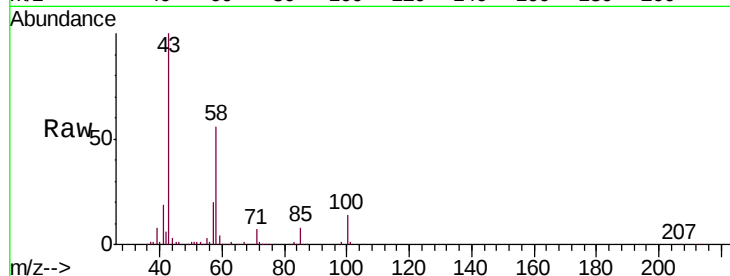




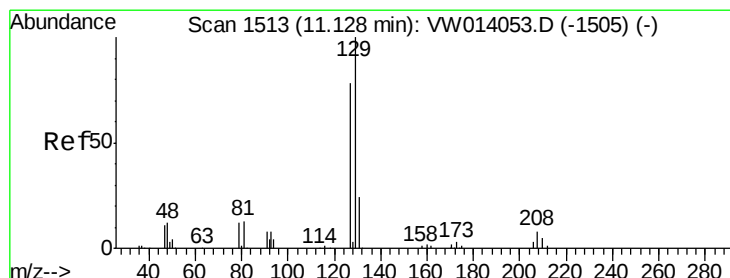
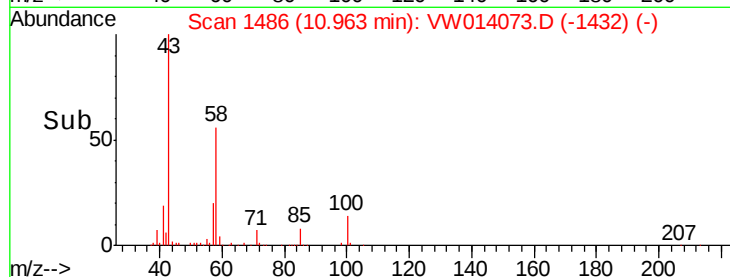
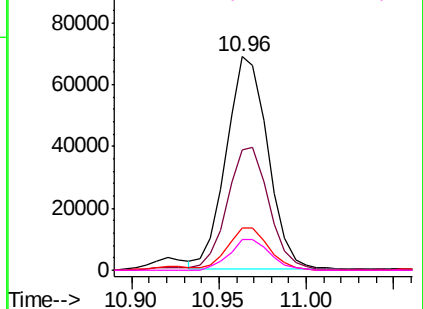
#49
2-Hexanone
Concen: 46.886 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

Tgt Ion:	43	Resp:	113156
Ion	Ratio	Lower	Upper
43	100		
58	58.6	44.4	66.6
57	20.0	16.5	24.7
100	14.0	11.1	16.7

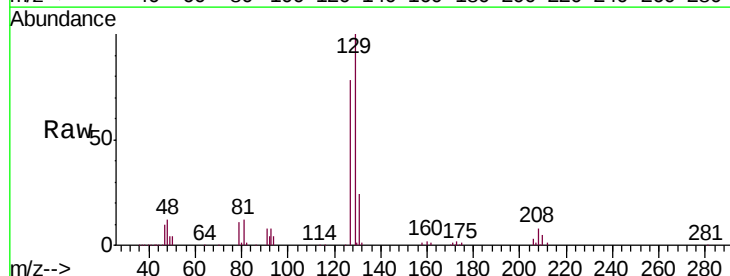


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

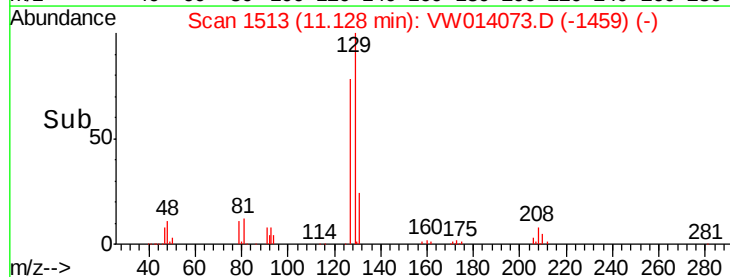
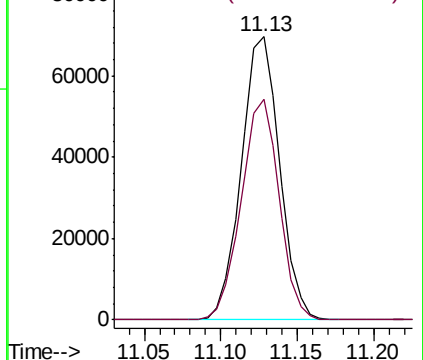


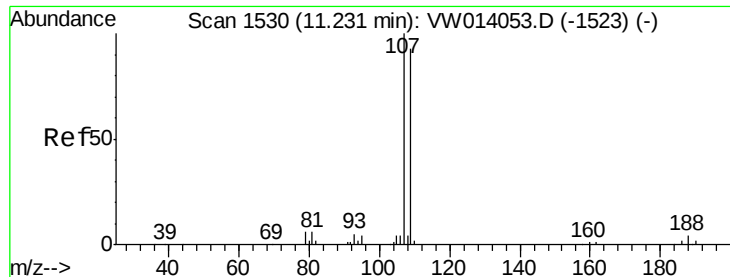
#50
Dibromochloromethane
Concen: 27.643 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

Tgt Ion:	129	Resp:	121043
Ion	Ratio	Lower	Upper
129	100		
127	77.8	54.9	102.1



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

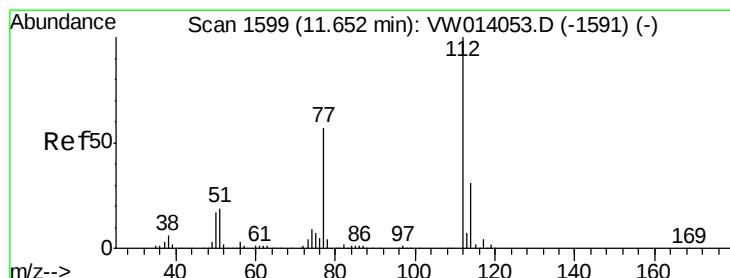
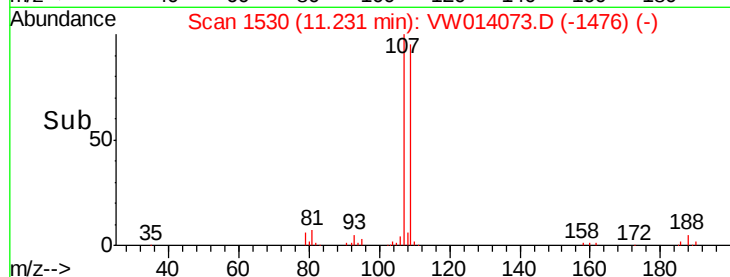
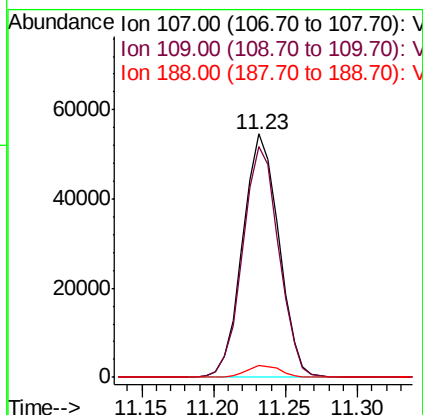
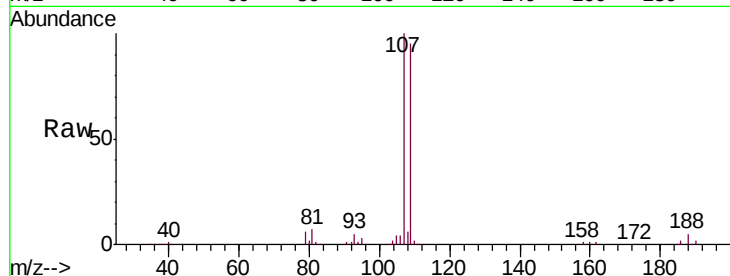




#51
1,2-Dibromoethane
Concen: 26.326 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

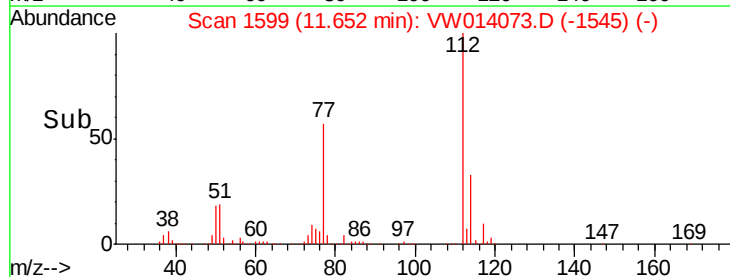
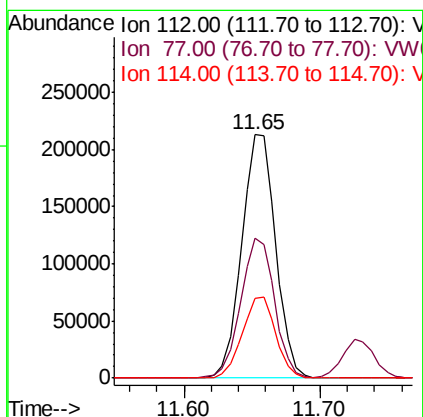
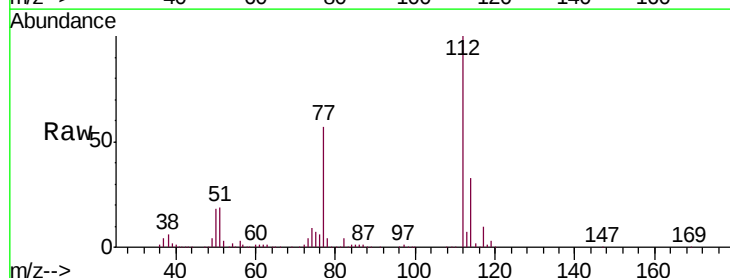
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

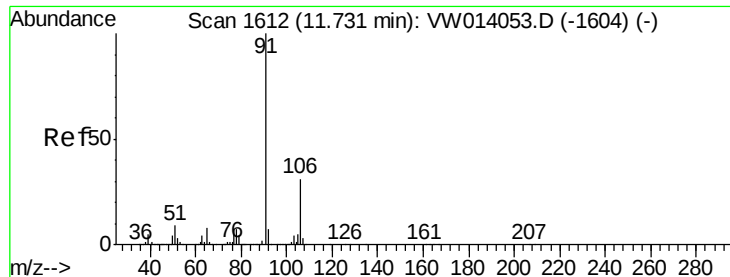
Tgt Ion:107 Resp: 95157
Ion Ratio Lower Upper
107 100
109 94.9 64.6 120.0
188 4.7 3.9 5.9



#52
Chlorobenzene
Concen: 25.752 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

Tgt Ion:112 Resp: 370726
Ion Ratio Lower Upper
112 100
77 57.4 42.2 63.4
114 32.6 22.5 41.9

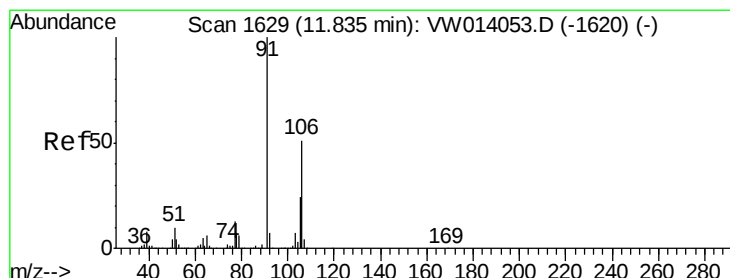
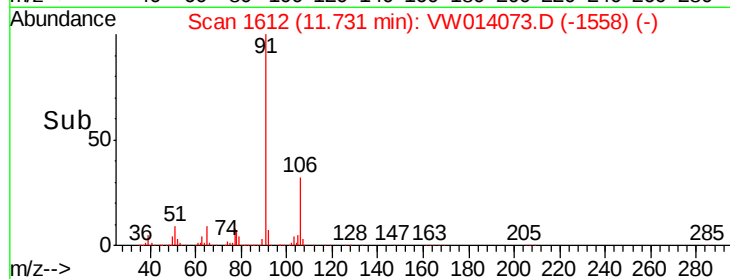
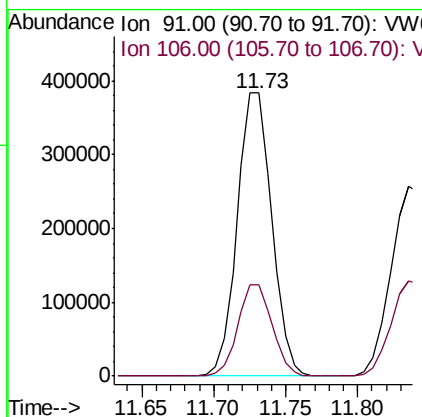
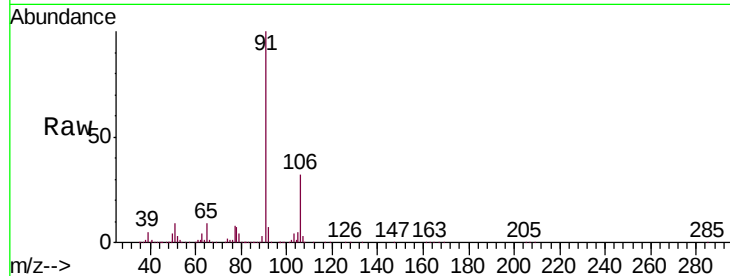




#53
Ethylbenzene
Concen: 25.385 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

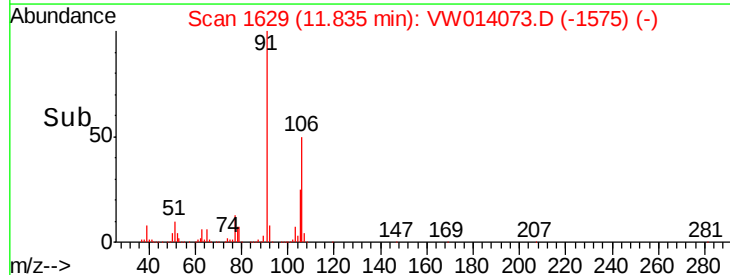
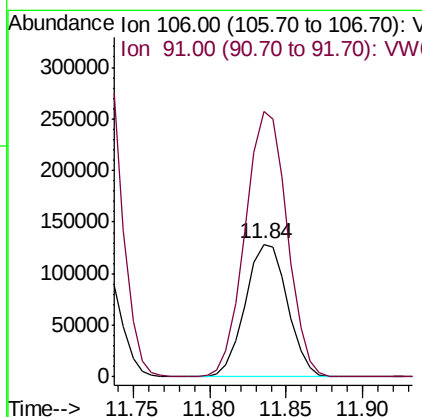
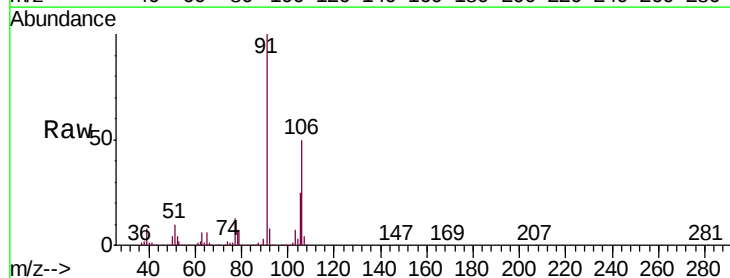
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

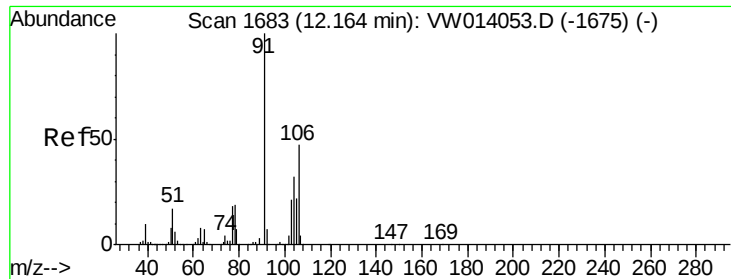
Tgt Ion: 91 Resp: 639667
Ion Ratio Lower Upper
91 100
106 32.3 22.3 41.5



#54
m,p-Xylene
Concen: 25.235 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW014073.D
Acq: 18 Nov 2019 20:10

Tgt Ion: 106 Resp: 247122
Ion Ratio Lower Upper
106 100
91 200.5 138.7 257.5





#55

o-xylene

Concen: 26.033 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

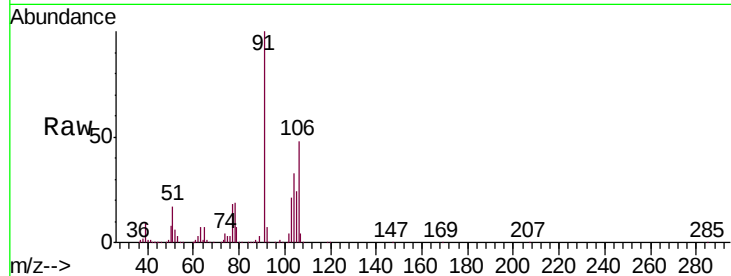
VSTD02512

Tgt Ion:106 Resp: 238726

Ion Ratio Lower Upper

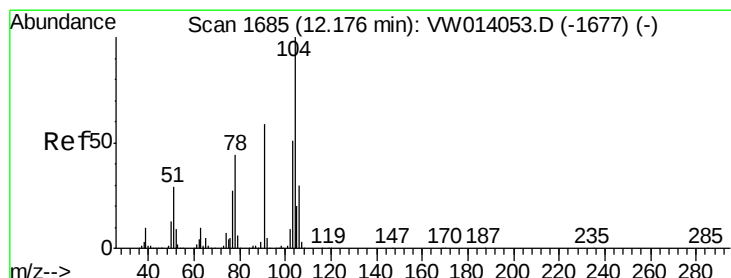
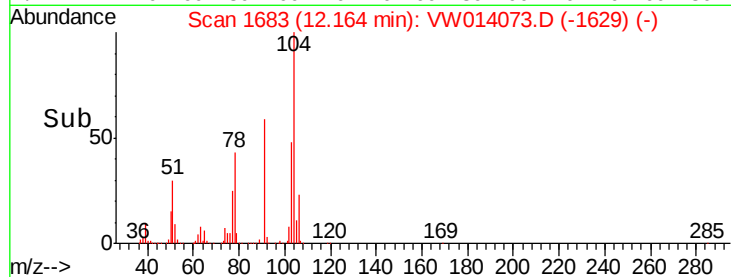
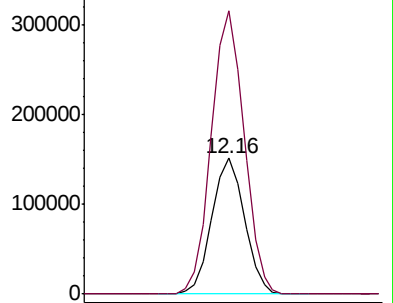
106 100

91 208.6 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 26.648 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014073.D

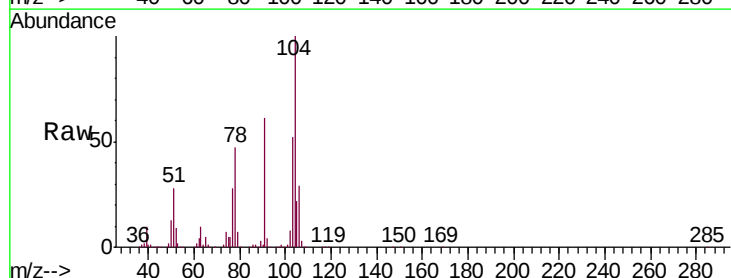
Acq: 18 Nov 2019 20:10

Tgt Ion:104 Resp: 412807

Ion Ratio Lower Upper

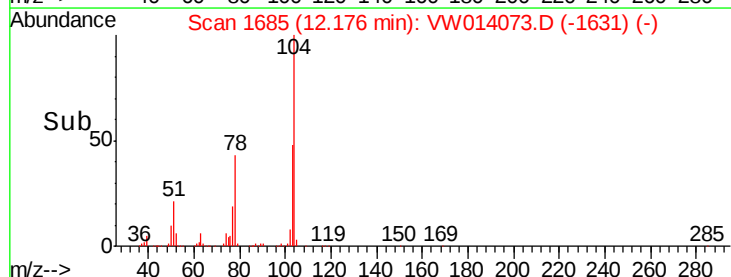
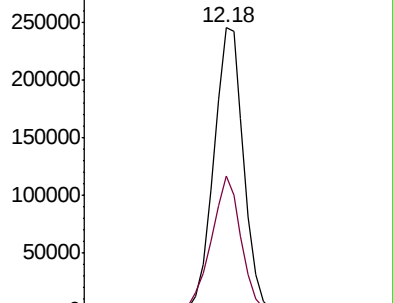
104 100

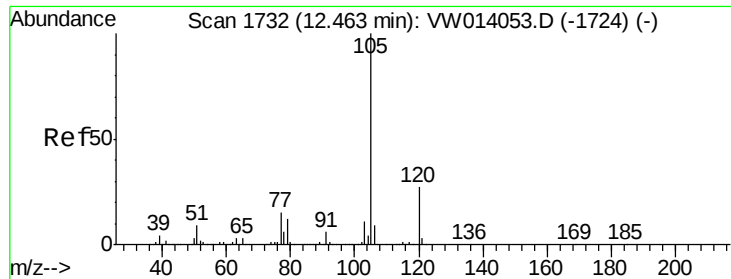
78 47.5 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 25.072 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

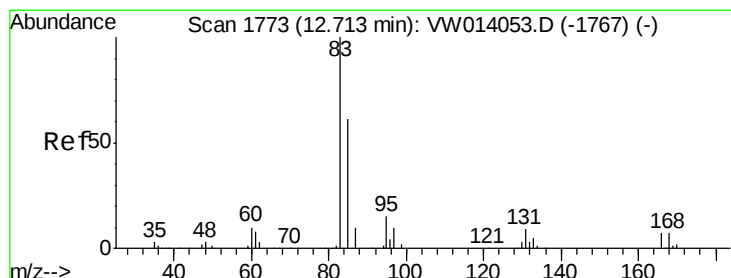
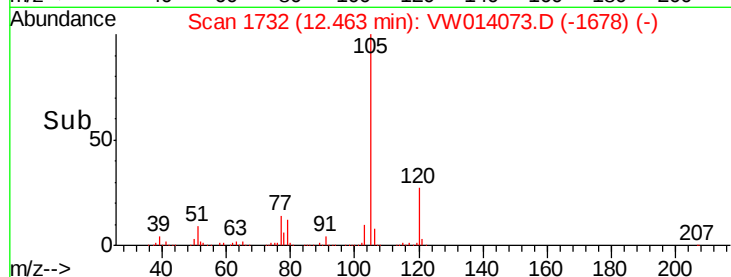
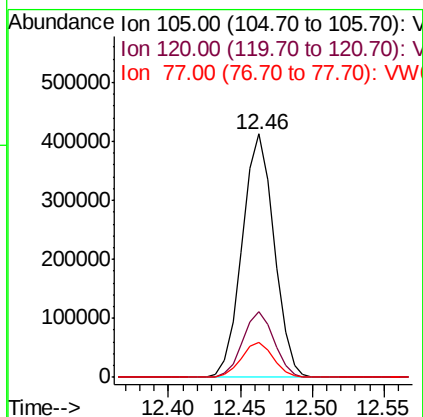
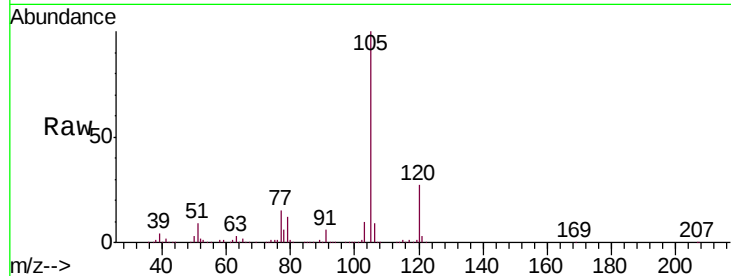
Tgt Ion: 105 Resp: 632148

Ion Ratio Lower Upper

105 100

120 26.8 21.6 32.4

77 14.4 11.6 17.4



#58

1,1,2,2-Tetrachloroethane

Concen: 27.597 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

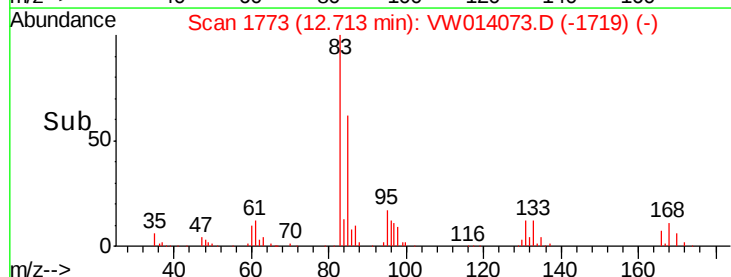
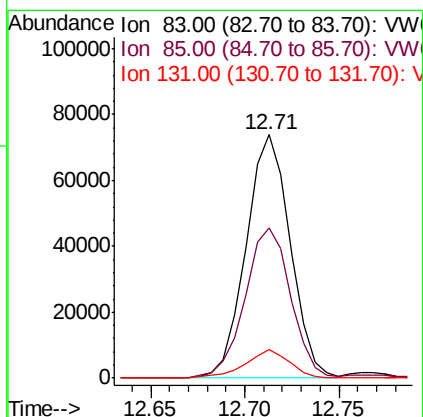
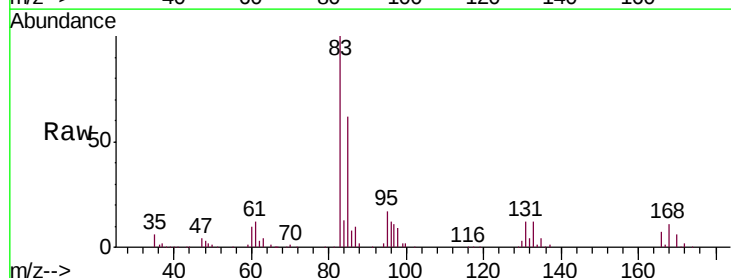
Tgt Ion: 83 Resp: 120028

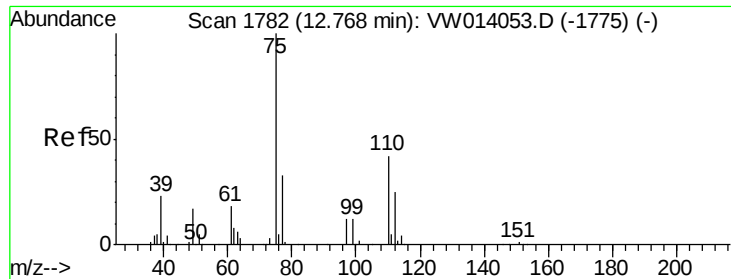
Ion Ratio Lower Upper

83 100

85 61.7 43.7 81.1

131 11.6 8.2 12.2





#59

1,2,3-Trichloropropane

Concen: 26.672 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

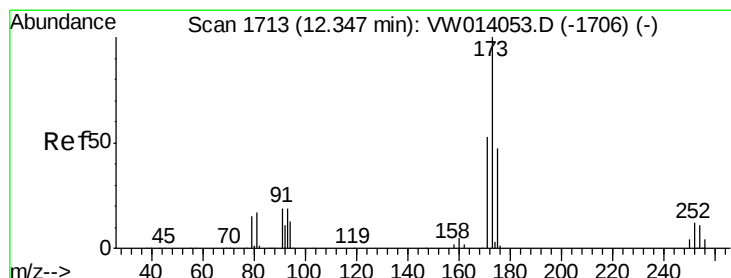
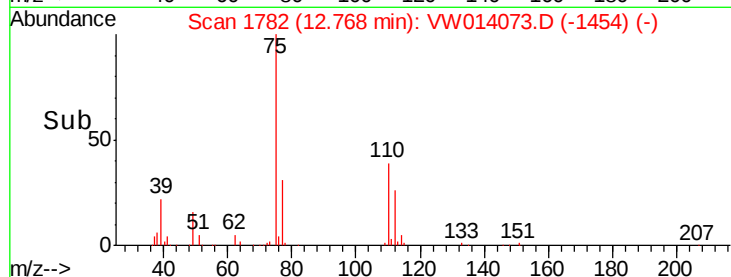
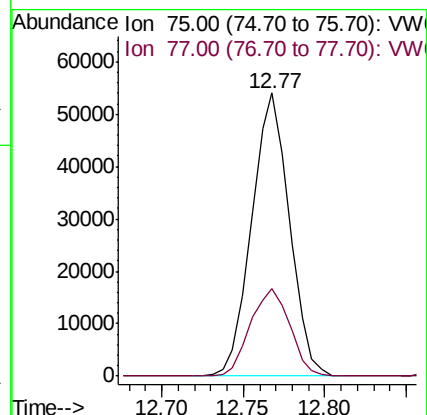
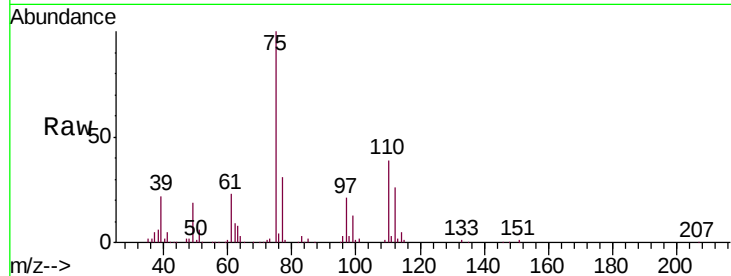
VSTD02512

Tgt Ion: 75 Resp: 87246

Ion Ratio Lower Upper

75 100

77 32.2 25.9 38.9



#62

Bromoform

Concen: 25.720 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

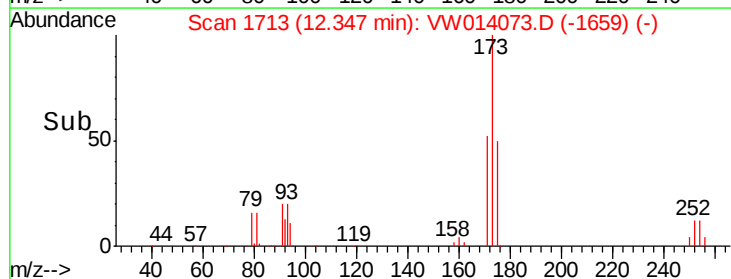
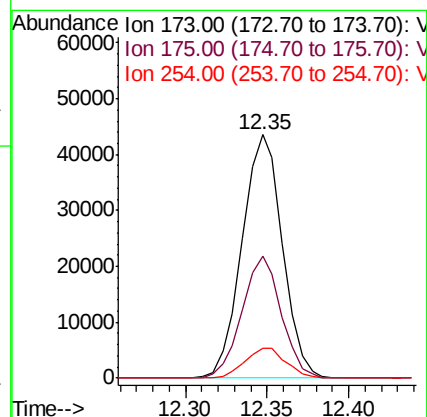
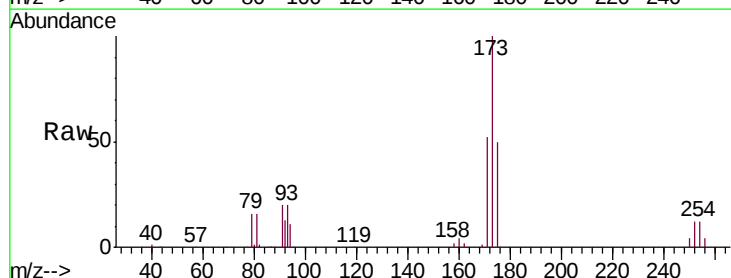
Tgt Ion: 173 Resp: 74999

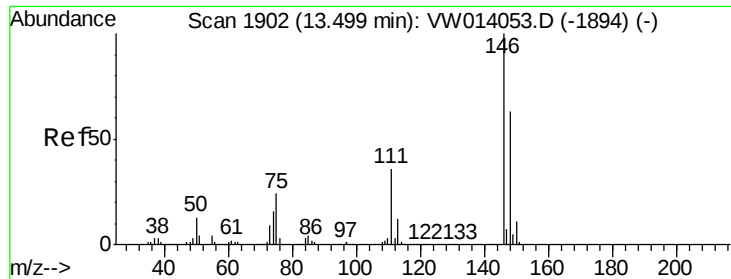
Ion Ratio Lower Upper

173 100

175 48.5 38.8 58.2

254 12.5 9.4 14.0





#63

1,3-Dichlorobenzene

Concen: 23.870 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

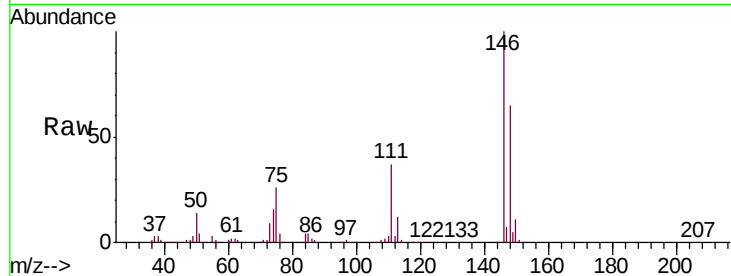
Tgt Ion:146 Resp: 298222

Ion Ratio Lower Upper

146 100

111 37.1 26.0 48.2

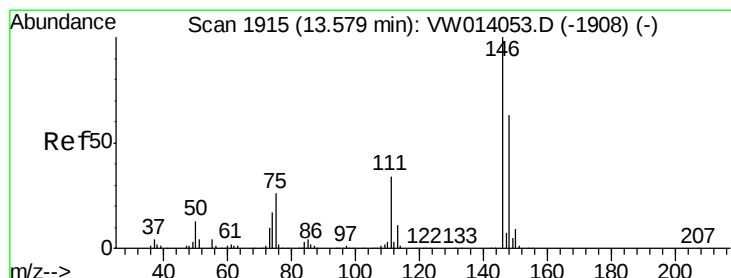
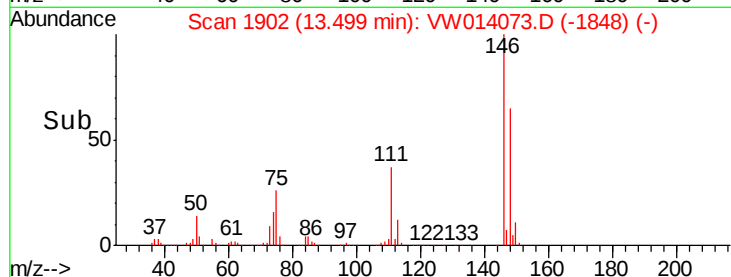
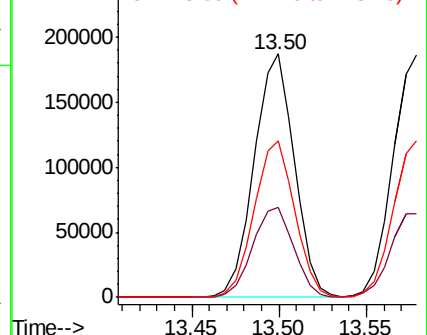
148 64.5 44.7 82.9



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



#64

1,4-Dichlorobenzene

Concen: 24.129 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

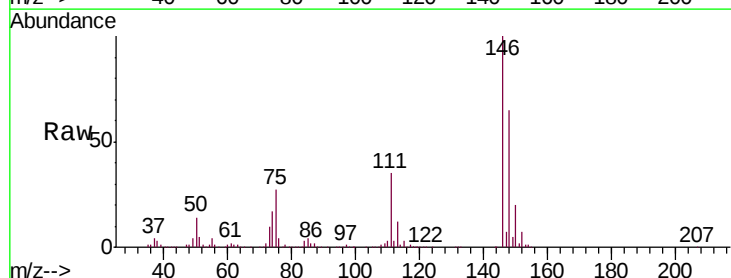
Tgt Ion:146 Resp: 297851

Ion Ratio Lower Upper

146 100

111 34.8 24.9 46.3

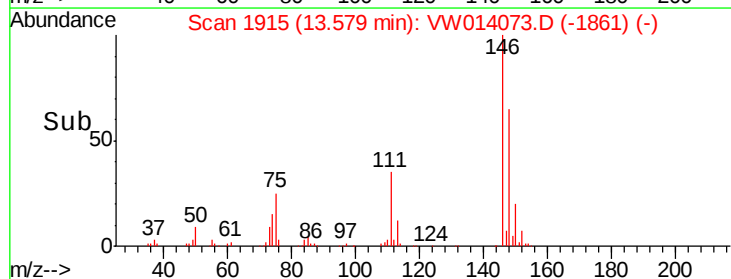
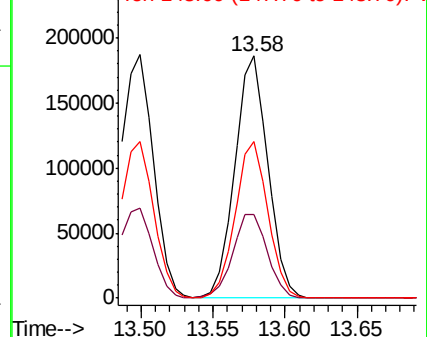
148 64.8 43.9 81.5

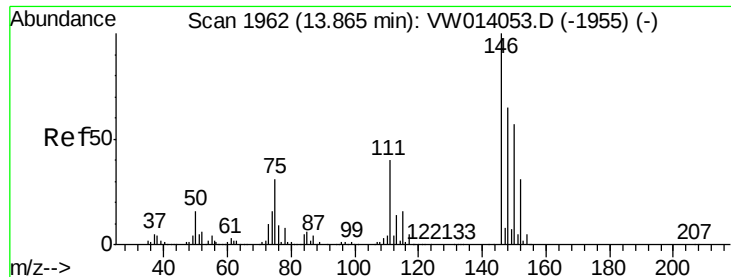


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 24.781 ug/L

RT: 13.87 min Scan# 1962

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

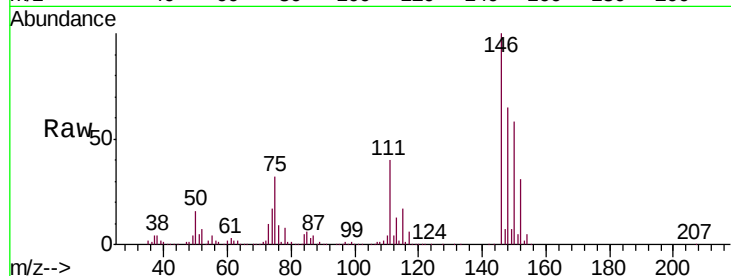
Tgt Ion:146 Resp: 274167

Ion Ratio Lower Upper

146 100

111 40.2 30.5 45.7

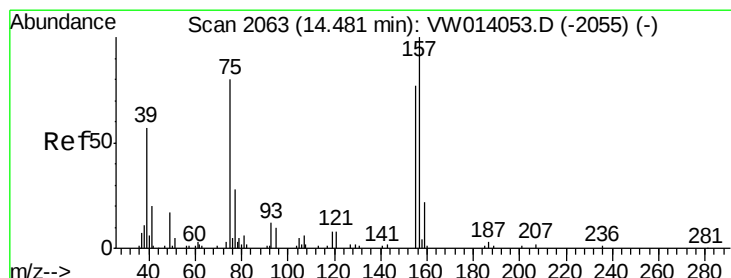
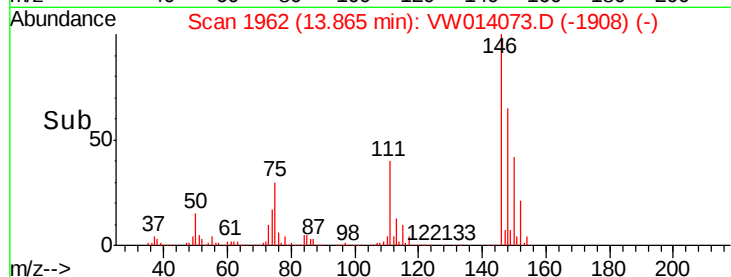
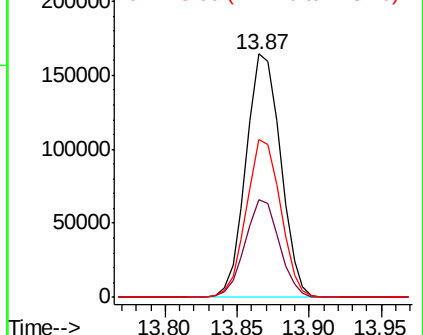
148 64.6 49.4 74.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 24.065 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

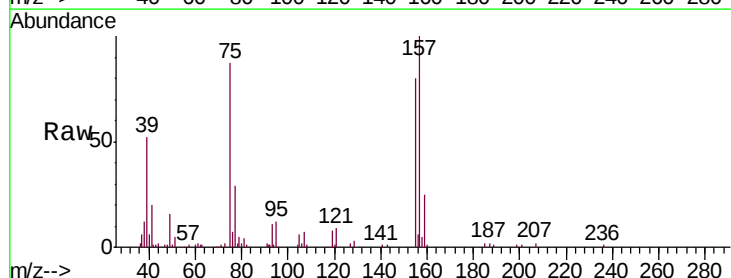
Tgt Ion: 75 Resp: 18132

Ion Ratio Lower Upper

75 100

157 114.3 96.9 145.3

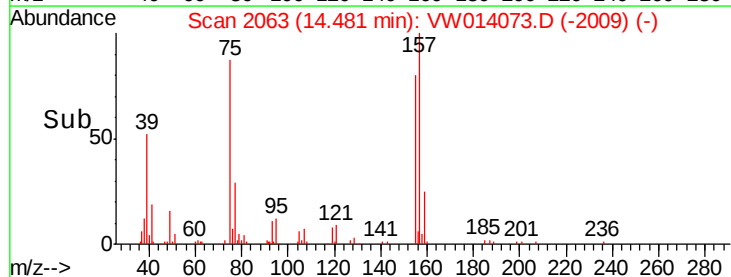
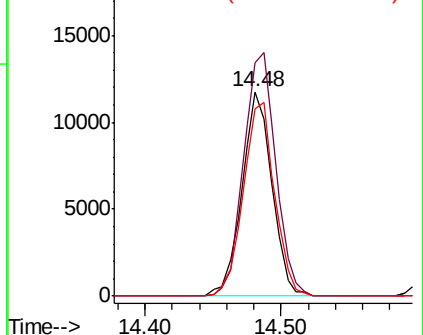
155 91.7 82.9 124.3

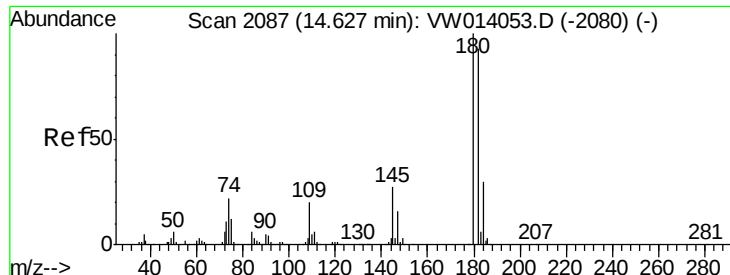


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

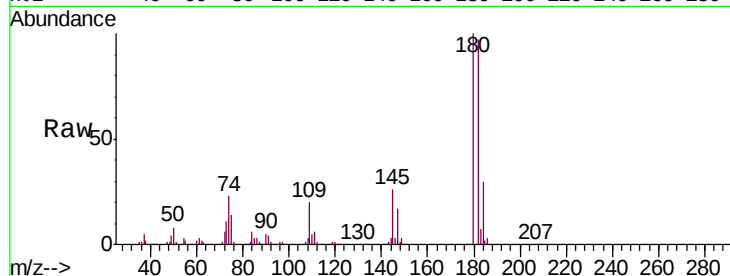




#67
 1,3,5-Trichlorobenzene
 Concen: 23.948 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014073.D
 Acq: 18 Nov 2019 20:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

Tgt Ion:	180	Resp:	228026
Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.2
184	30.2	24.3	36.5
145	27.0	21.9	32.9



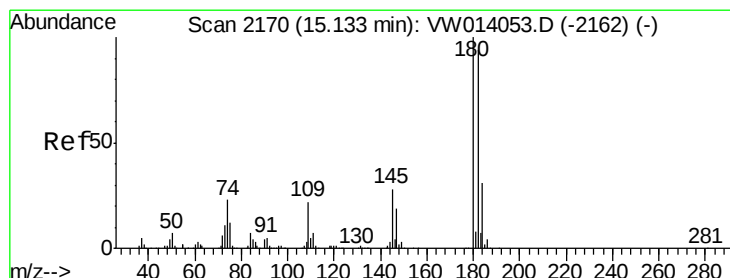
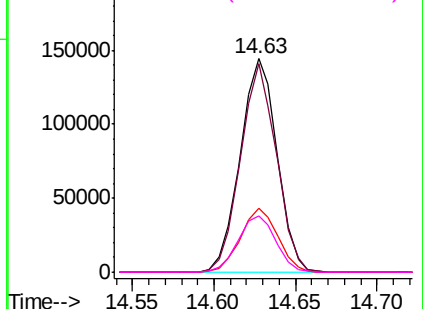
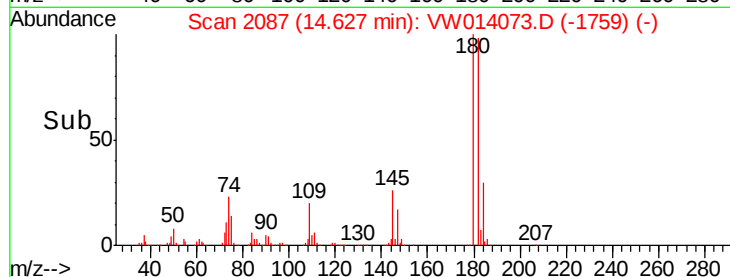
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

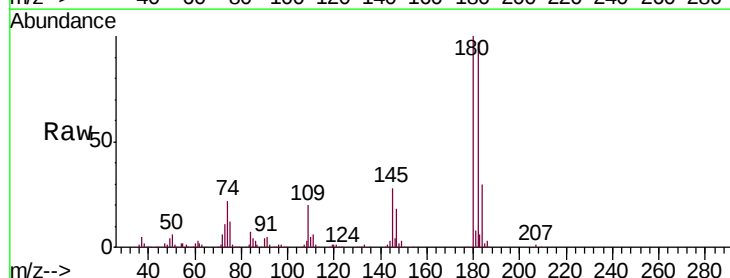
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 23.845 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014073.D
 Acq: 18 Nov 2019 20:10

Tgt Ion:	180	Resp:	178523
Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.8	113.8
145	28.1	22.4	33.6

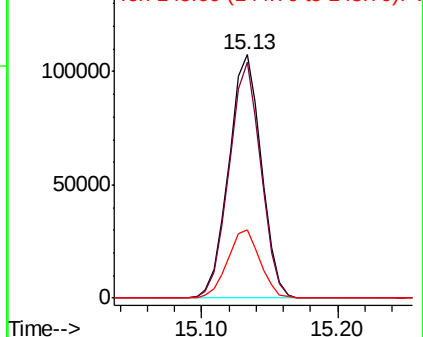
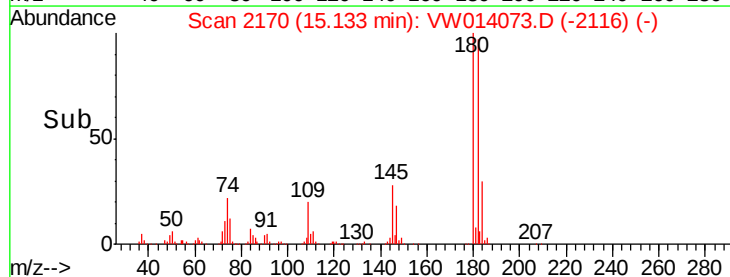


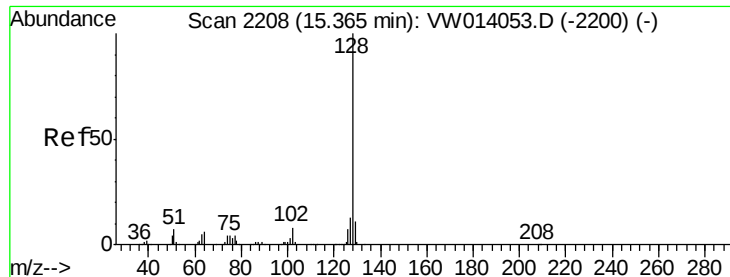
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 23.656 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

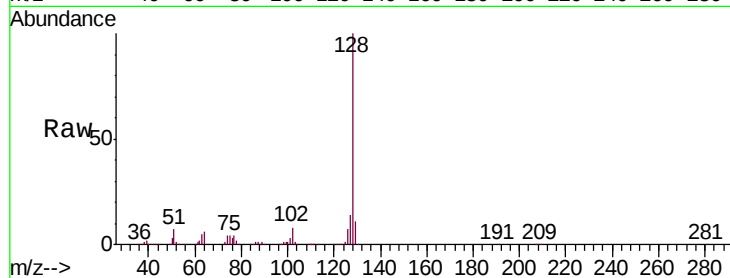
Tgt Ion:128 Resp: 314638

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

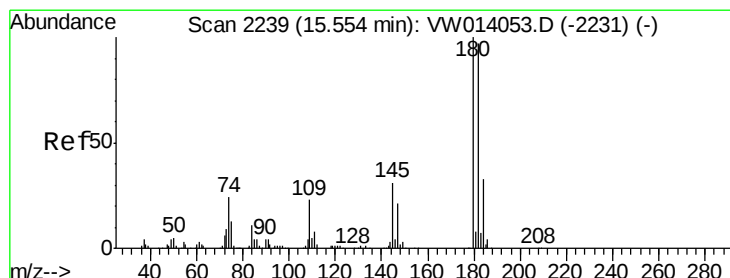
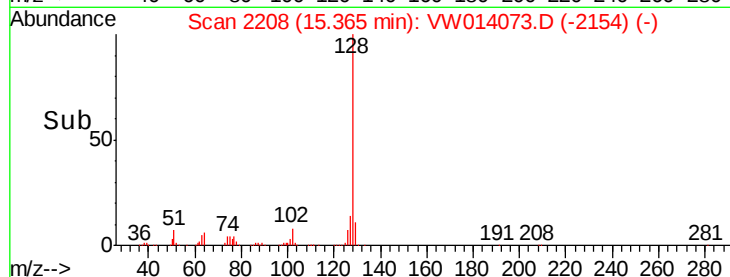
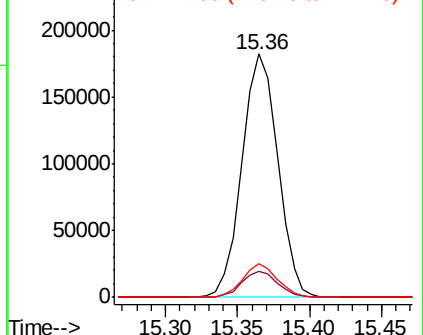
127 13.1 10.4 15.6



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: 24.505 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014073.D

Acq: 18 Nov 2019 20:10

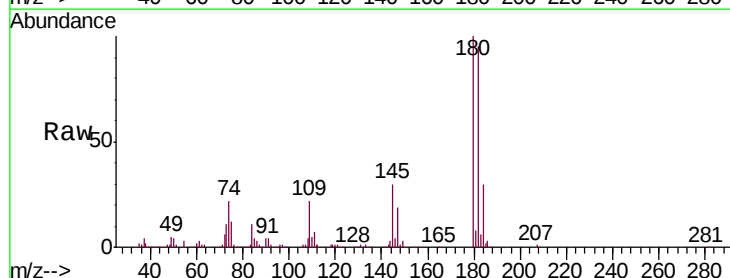
Tgt Ion:180 Resp: 161910

Ion Ratio Lower Upper

180 100

182 93.8 75.8 113.6

145 29.3 24.0 36.0



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

