

Data File : VW014031.D
Acq On : 14 Nov 2019 20:17
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

Quant Time: Nov 15 01:51:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
Quant Title : VOC Analysis
QLast Update : Fri Nov 15 01:46:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	291352	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	284417	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	175606	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	109967	23.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.64%
7) Chloroethane-d5	2.89	69	89187	23.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.68%
10) 1,1-Dichloroethene-d2	4.03	63	228569	23.96	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.84%
20) 2-Butanone-d5	7.07	46	80565	59.66	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	119.32%
24) Chloroform-d	7.64	84	228070	25.46	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.84%
26) 1,2-Dichloroethane-d4	8.31	65	119363	26.50	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.00%
29) Benzene-d6	8.27	84	474728	23.52	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.08%
33) 1,2-Dichloropropane-d6	9.27	67	141245	23.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.56%
37) Toluene-d8	10.32	98	447475	23.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.52%
38) trans-1,3-Dichloropropene-	10.57	79	63256	24.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.96%
39) 2-Hexanone-d5	10.92	63	68350	60.97	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	121.94%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	126864	28.42	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	113.68%
61) 1,2-Dichlorobenzene-d4	13.85	152	164658	23.34	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.36%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	74108	21.388	ug/L 91
3) Chloromethane	2.21	50	69356	22.535	ug/L 96
5) Vinyl chloride	2.36	62	126315	26.286	ug/L 93
6) Bromomethane	2.78	94	77361	26.002	ug/L 97
8) Chloroethane	2.92	64	75177	26.300	ug/L 96
9) Trichlorofluoromethane	3.26	101	63232	19.297	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	126905	26.228	ug/L 99
12) 1,1-Dichloroethene	4.04	96	131278	26.691	ug/L 94
13) Acetone	4.11	43	51057	37.155	ug/L 97
14) Carbon disulfide	4.39	76	362986	25.930	ug/L 98
15) Methyl Acetate	4.67	43	69919	31.447	ug/L 100
16) Methylene chloride	4.92	84	137227	24.465	ug/L 98
17) Methyl tert-butyl Ether	5.42	73	176011	27.739	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	135360	26.392	ug/L 98
19) 1,1-Dichloroethane	6.21	63	234760	27.174	ug/L 99
21) 2-Butanone	7.17	43	91061	51.579	ug/L 99
22) cis-1,2-Dichloroethene	7.17	96	147419	27.314	ug/L 97

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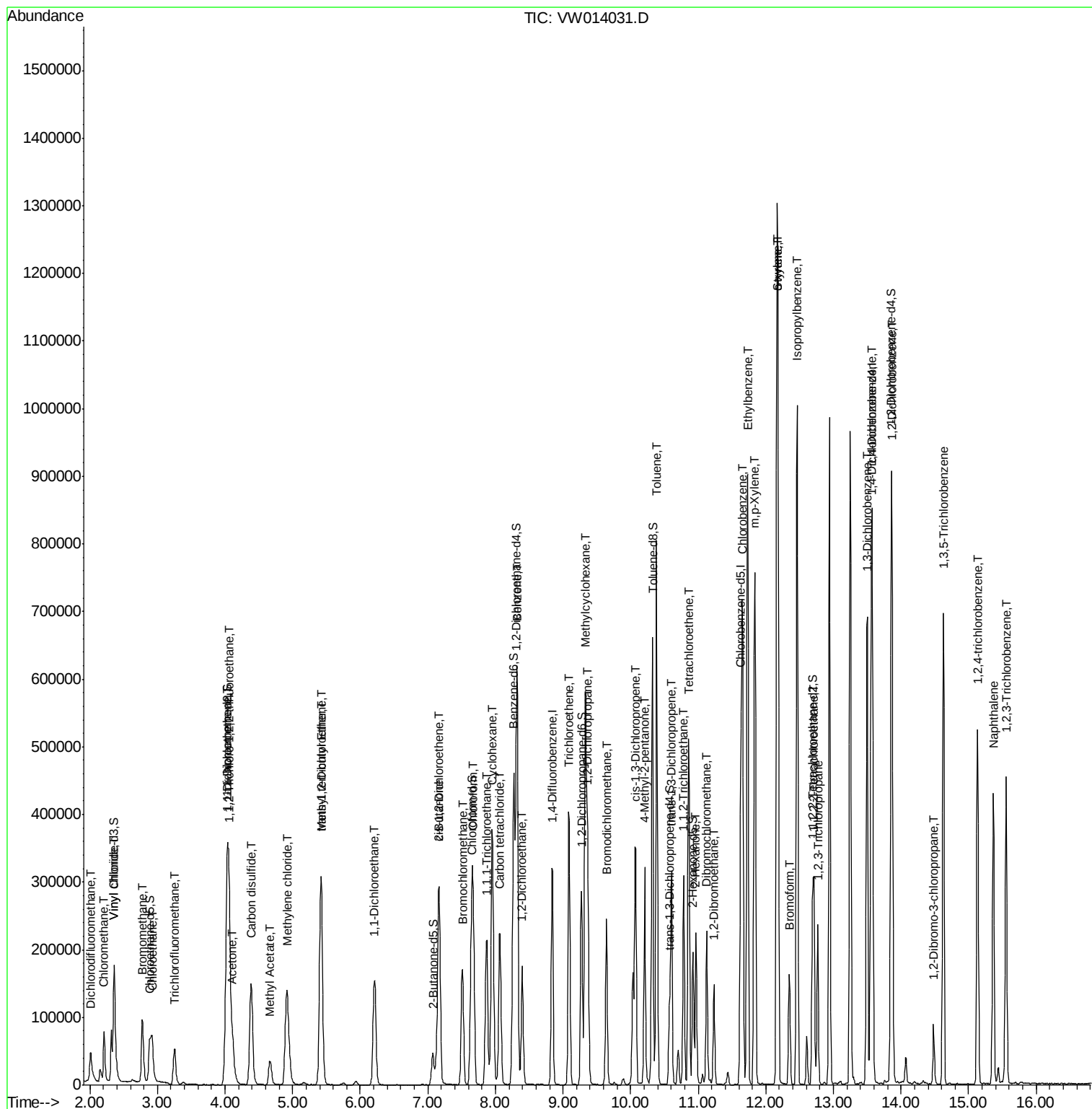
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	66631	28.124	ug/L	95
25) Chloroform	7.67	83	238657	28.131	ug/L	99
27) 1,2-Dichloroethane	8.40	62	151628	29.520	ug/L	99
30) Cyclohexane	7.95	56	225900	24.819	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	183557	25.752	ug/L	99
32) Carbon tetrachloride	8.07	117	177901	26.000	ug/L	100
34) Benzene	8.32	78	551455	26.434	ug/L	100
35) Trichloroethene	9.09	95	140143	25.183	ug/L	100
36) Methylcyclohexane	9.33	83	249967	25.052	ug/L	98
40) 1,2-Dichloropropane	9.37	63	134312	26.744	ug/L	99
41) Bromodichloromethane	9.64	83	172036	28.336	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	212189	26.774	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	207463	62.568	ug/L	99
44) Toluene	10.38	91	598175	26.299	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	174943	27.914	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	104500	28.320	ug/L	98
47) Tetrachloroethene	10.86	164	129431	26.094	ug/L	98
49) 2-Hexanone	10.96	43	142831	59.748	ug/L	99
50) Dibromochloromethane	11.13	129	124935	28.805	ug/L	97
51) 1,2-Dibromoethane	11.23	107	103184	28.821	ug/L	95
52) Chlorobenzene	11.65	112	379914	26.643	ug/L	95
53) Ethylbenzene	11.73	91	659588	26.426	ug/L	100
54) m,p-Xylene	11.83	106	255252	26.315	ug/L	97
55) o-xylene	12.16	106	242107	26.654	ug/L	98
56) Styrene	12.18	104	422046	27.505	ug/L	98
57) Isopropylbenzene	12.46	105	666957	26.706	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	133888	31.078	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	98134	30.288	ug/L	99
62) Bromoform	12.35	173	81118	28.187	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	309526	25.103	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	307277	25.223	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	286651	26.253	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	22266	29.944	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	237730	25.299	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	192259	26.020	ug/L	99
69) Naphthalene	15.36	128	370034	28.189	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	175744	26.951	ug/L	99

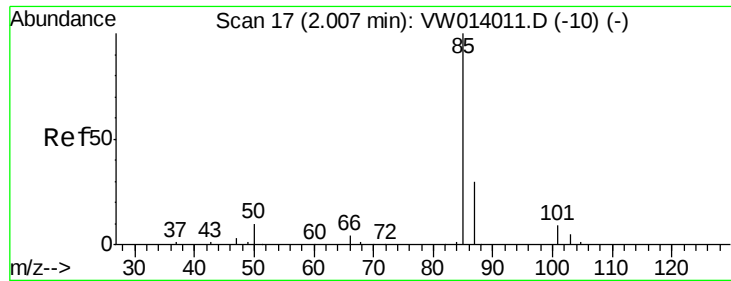
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.388 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampled :

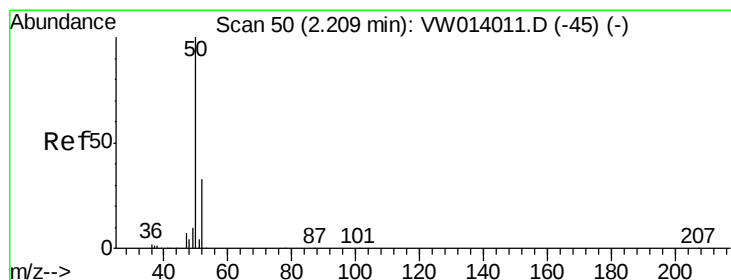
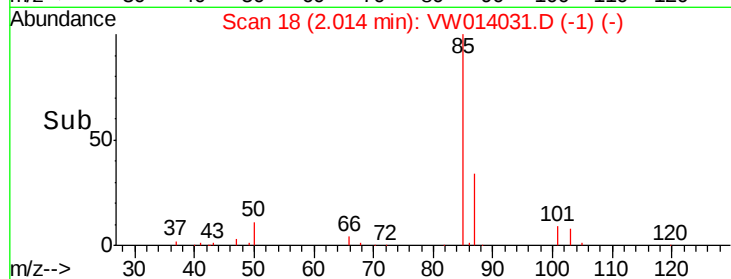
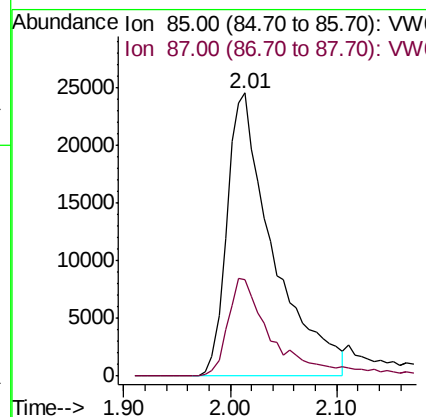
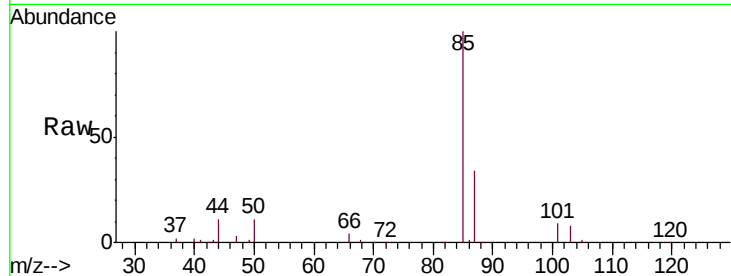
VSTD02508

Tgt Ion: 85 Resp: 74108

Ion Ratio Lower Upper

85 100

87 26.7 22.1 41.1



#3

Chloromethane

Concen: 22.535 ug/L

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW014031.D

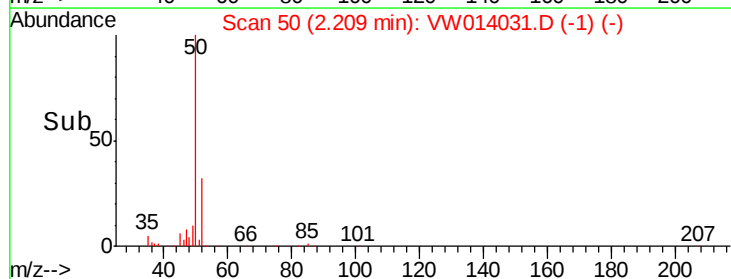
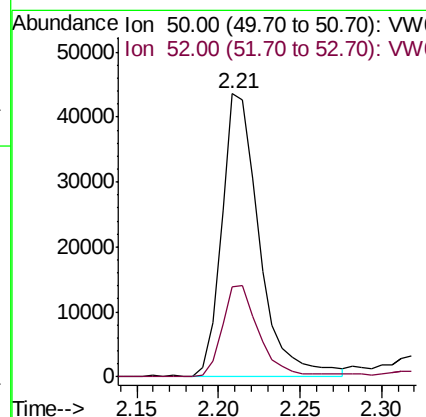
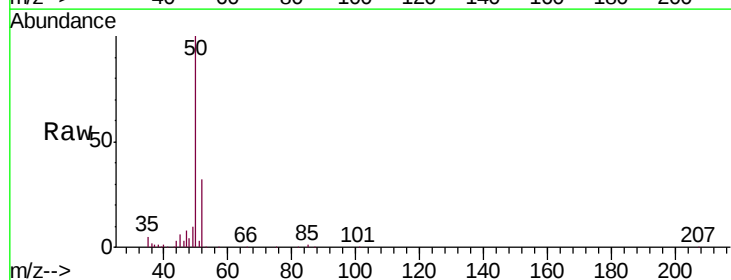
Acq: 14 Nov 2019 20:17

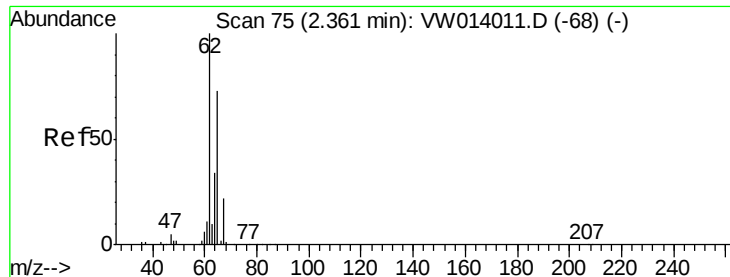
Tgt Ion: 50 Resp: 69356

Ion Ratio Lower Upper

50 100

52 31.7 23.8 44.2





#5

Vinyl chloride

Concen: 26.286 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

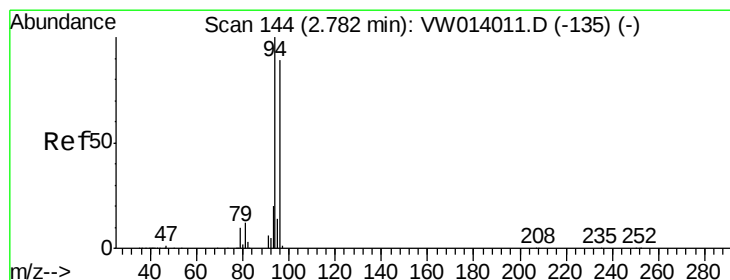
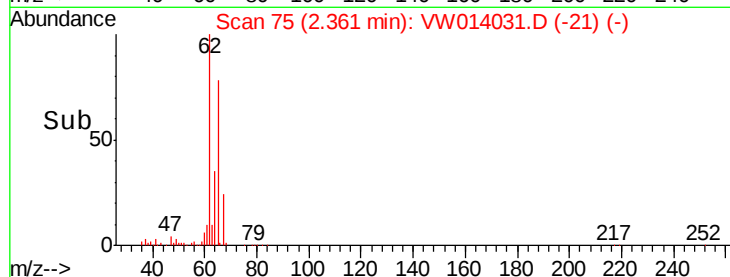
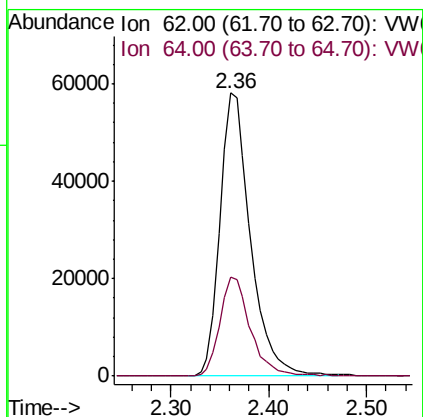
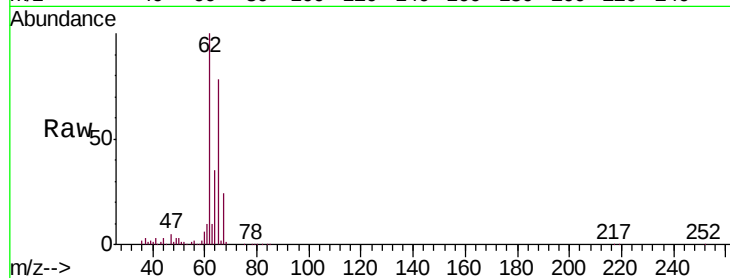
VSTD02508

Tgt Ion: 62 Resp: 126315

Ion Ratio Lower Upper

62 100

64 35.1 21.8 40.4



#6

Bromomethane

Concen: 26.002 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW014031.D

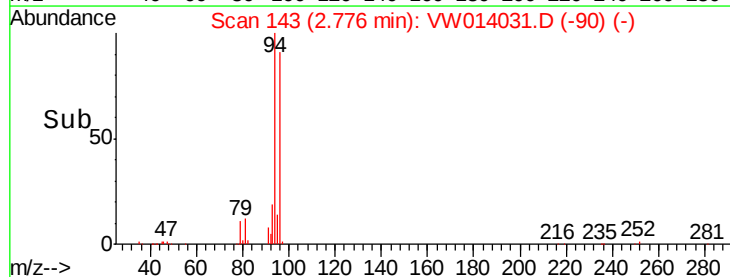
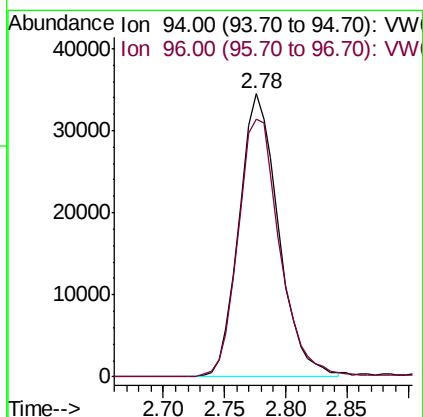
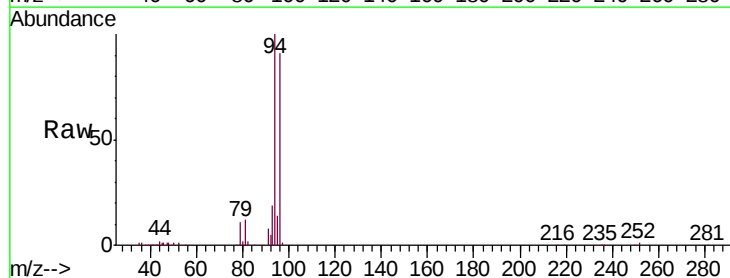
Acq: 14 Nov 2019 20:17

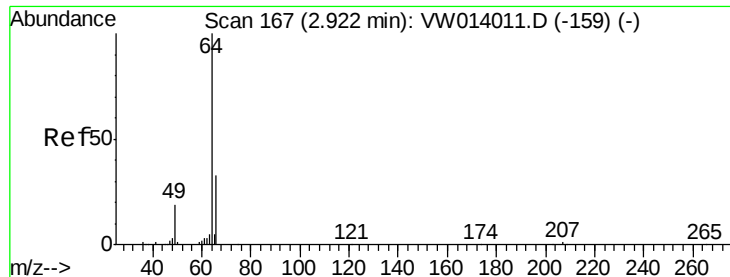
Tgt Ion: 94 Resp: 77361

Ion Ratio Lower Upper

94 100

96 96.7 9.4 178.8





#8

Chloroethane

Concen: 26.300 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

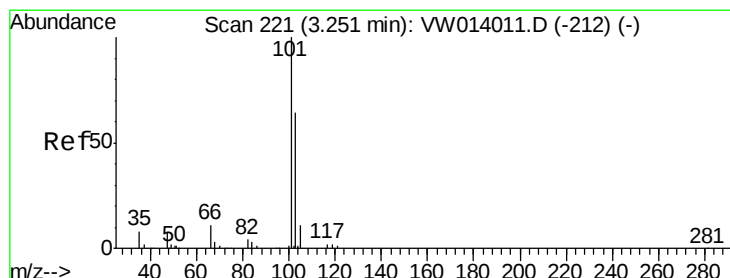
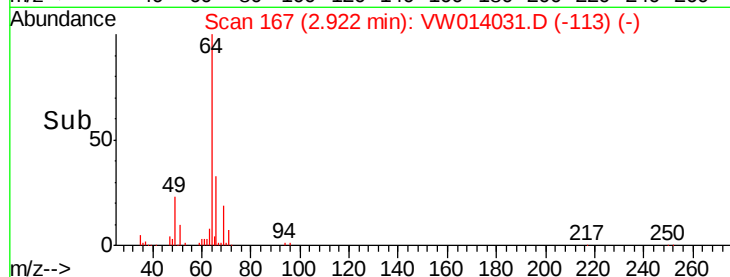
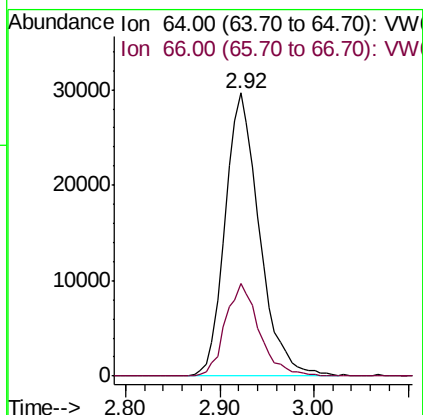
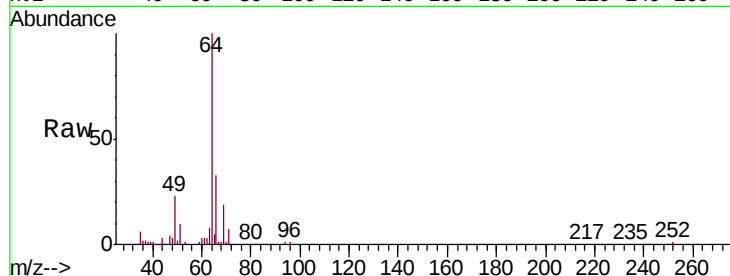
VSTD02508

Tgt Ion: 64 Resp: 75177

Ion Ratio Lower Upper

64 100

66 32.7 21.2 39.4



#9

Trichlorofluoromethane

Concen: 19.297 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW014031.D

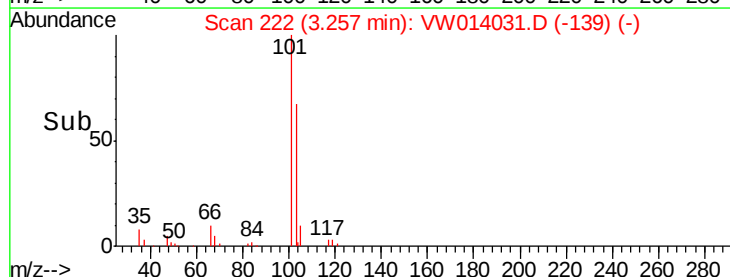
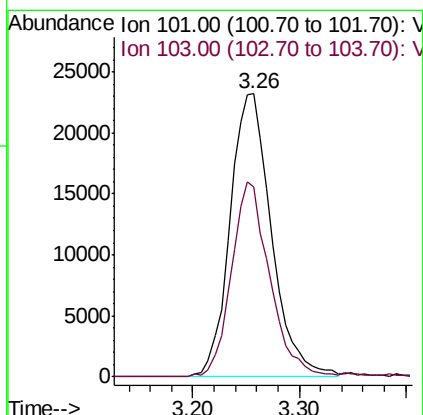
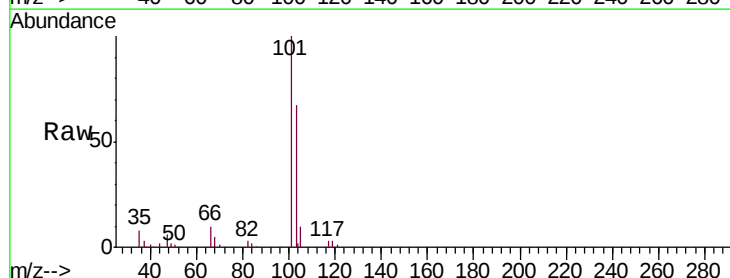
Acq: 14 Nov 2019 20:17

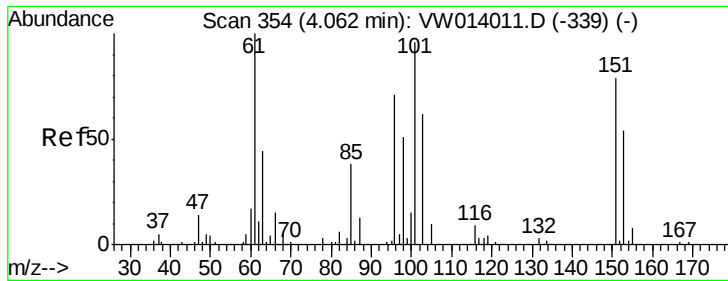
Tgt Ion: 101 Resp: 63232

Ion Ratio Lower Upper

101 100

103 63.8 45.4 84.2





#11

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

Concen: 26.228 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

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Instrument :

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ClientSampleId :

VSTD02508

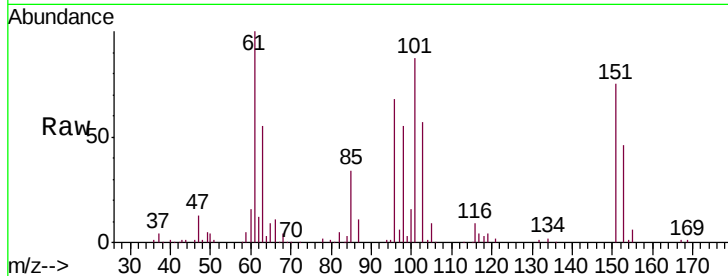
Tgt Ion:101 Resp: 126905

Ion Ratio Lower Upper

101 100

85 40.4 31.4 47.2

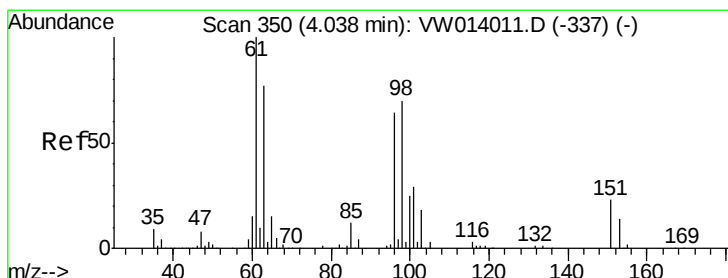
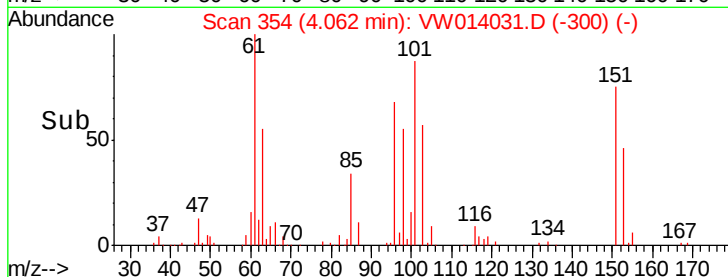
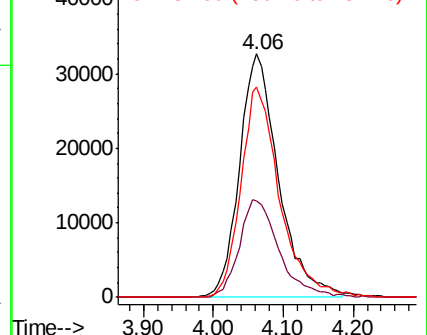
151 83.6 66.9 100.3



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: 26.691 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014031.D

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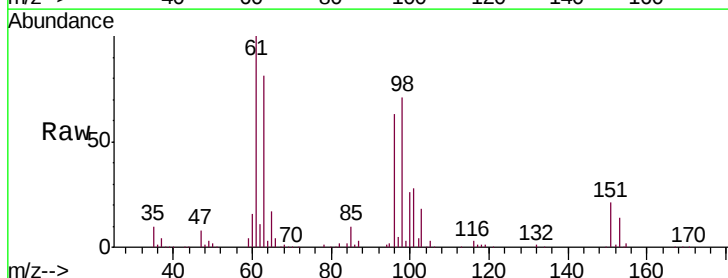
Tgt Ion: 96 Resp: 131278

Ion Ratio Lower Upper

96 100

61 159.1 109.8 204.0

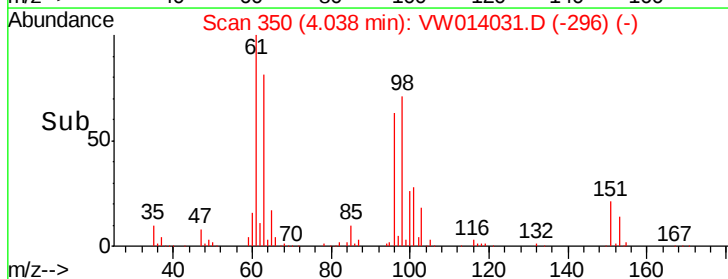
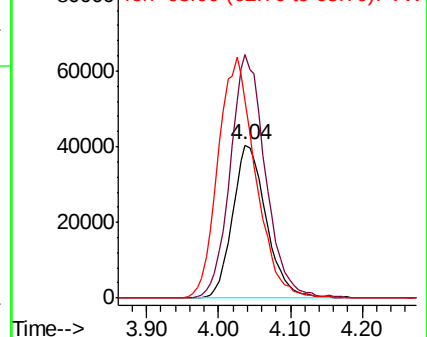
63 129.1 80.7 149.9

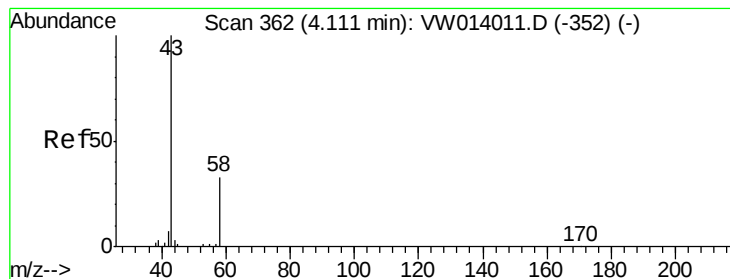


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 37.155 ug/L

RT: 4.11 min Scan# 362

Delta R.T. 0.00 min

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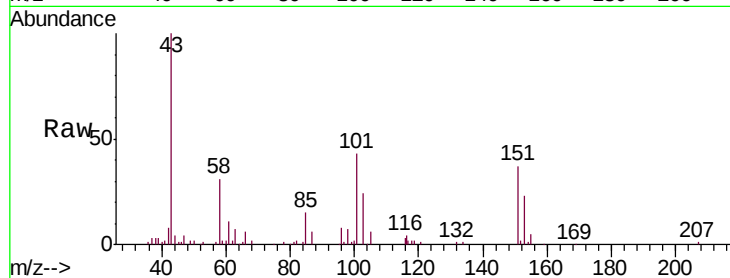
VSTD02508

Tgt Ion: 43 Resp: 51057

Ion Ratio Lower Upper

43 100

58 34.1 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.11

20000

15000

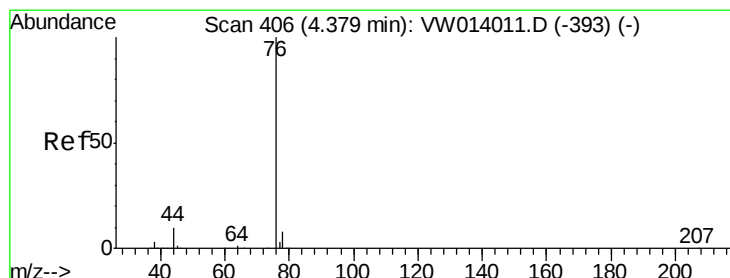
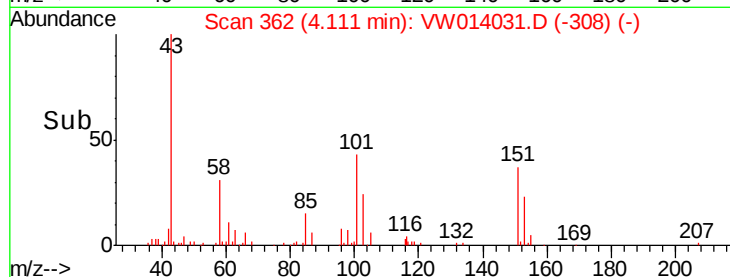
10000

5000

0

4.05 4.10 4.15 4.20

Time-->



#14

Carbon disulfide

Concen: 25.930 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014031.D

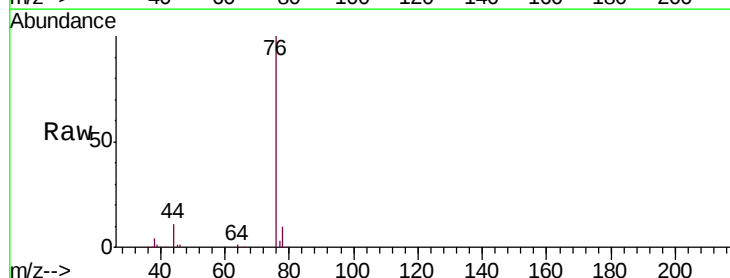
Acq: 14 Nov 2019 20:17

Tgt Ion: 76 Resp: 362986

Ion Ratio Lower Upper

76 100

78 9.7 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

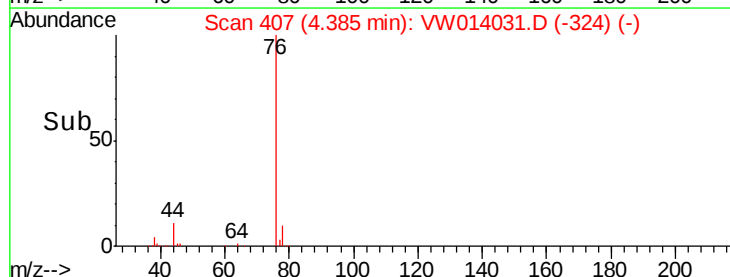
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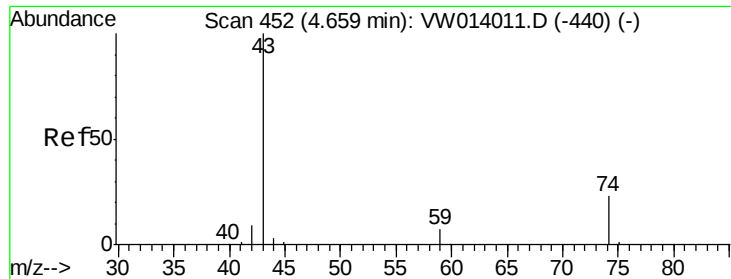
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4.30 4.40 4.50

Time-->

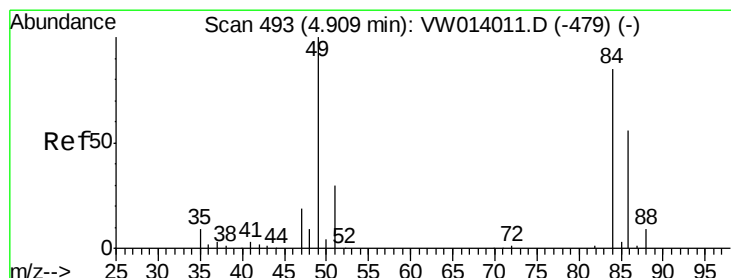
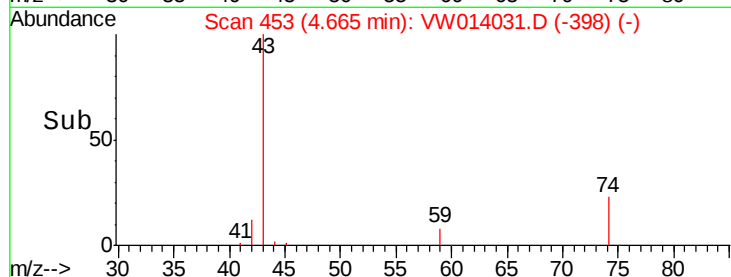
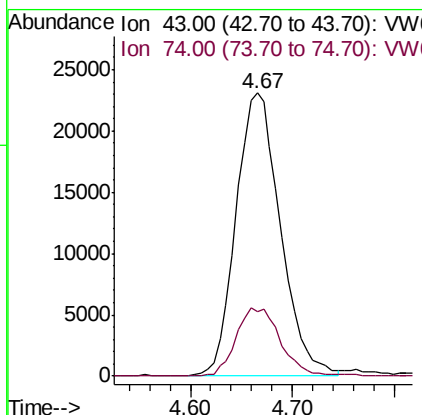
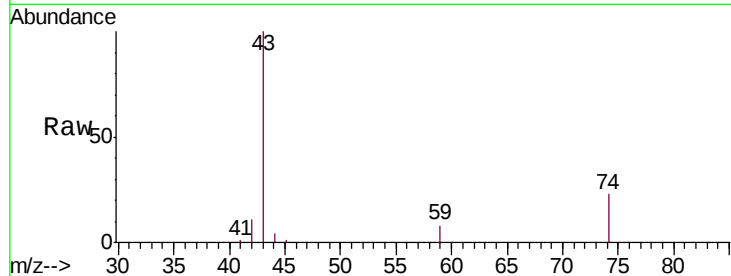




#15
Methyl Acetate
Concen: 31.447 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

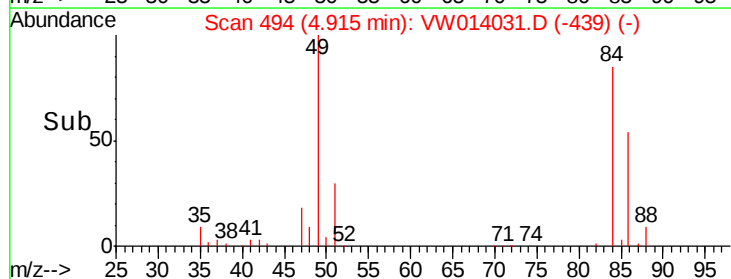
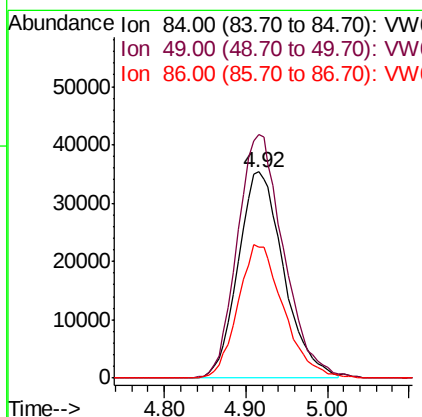
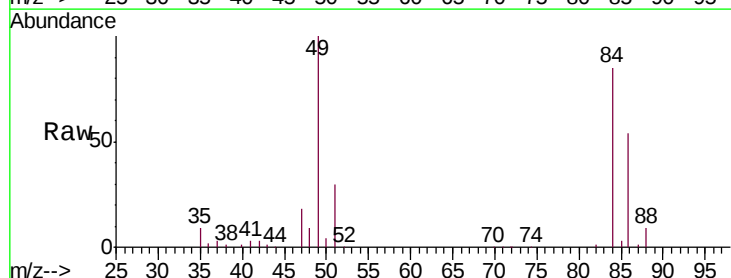
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

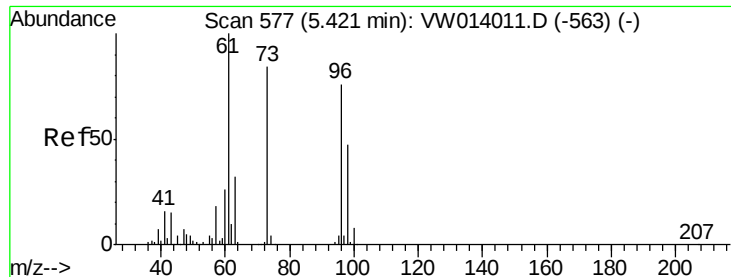
Tgt Ion: 43 Resp: 69919
Ion Ratio Lower Upper
43 100
74 24.0 19.3 28.9



#16
Methylene chloride
Concen: 24.465 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

Tgt Ion: 84 Resp: 137227
Ion Ratio Lower Upper
84 100
49 118.2 84.2 156.4
86 63.8 43.7 81.1

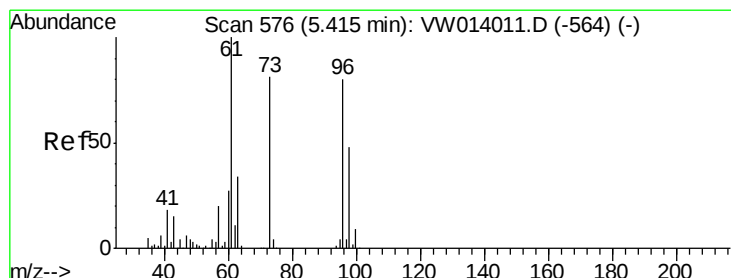
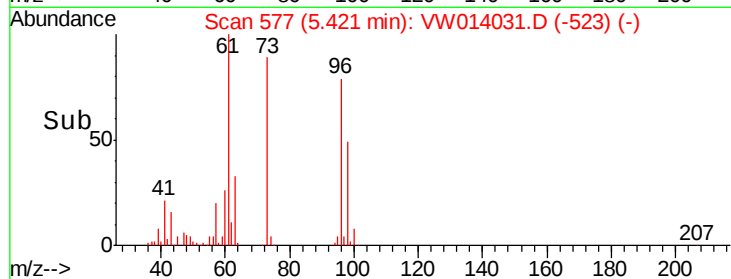
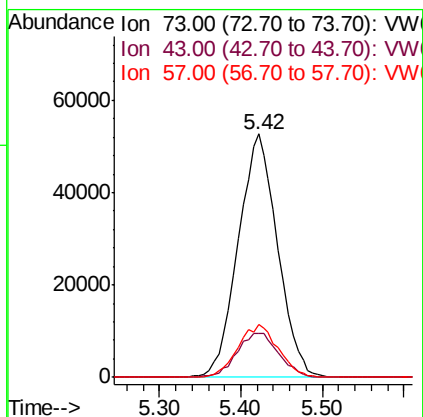
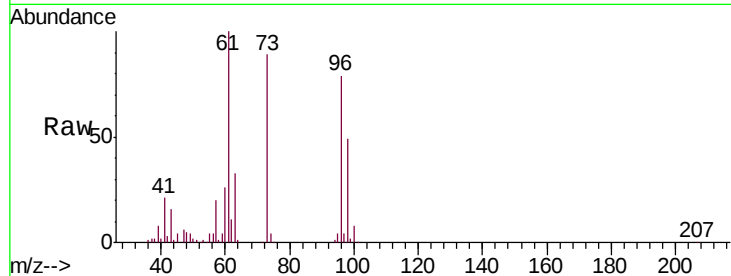




#17
Methyl tert-butyl Ether
Concen: 27.739 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

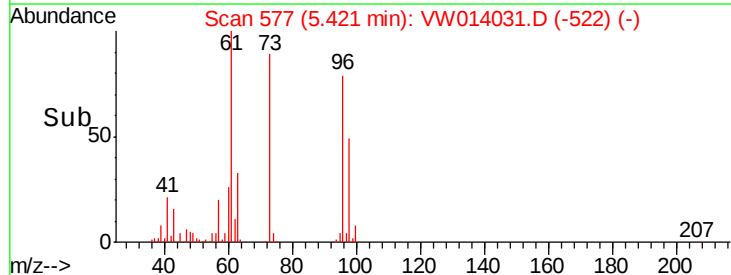
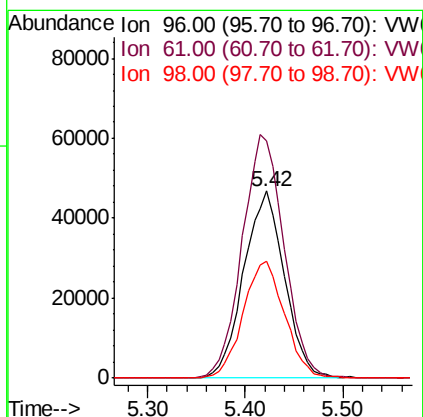
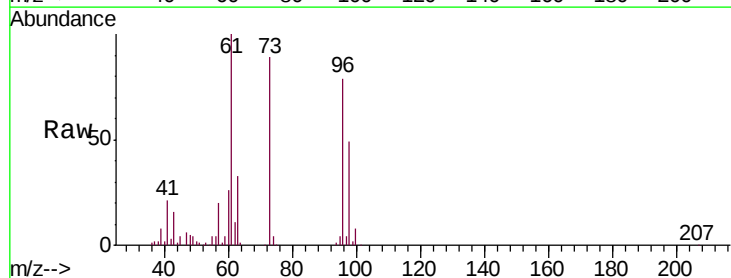
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

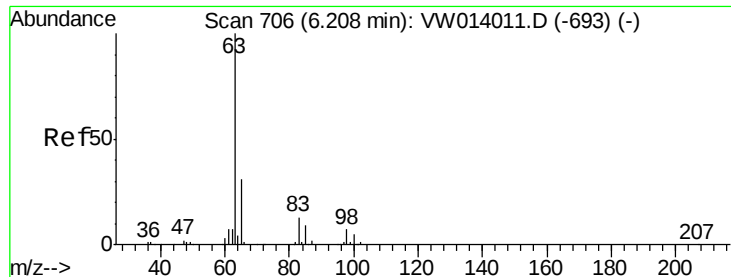
Tgt Ion: 73 Resp: 176011
Ion Ratio Lower Upper
73 100
43 19.3 15.5 23.3
57 22.1 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 26.392 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

Tgt Ion: 96 Resp: 135360
Ion Ratio Lower Upper
96 100
61 126.5 90.6 168.2
98 62.5 42.9 79.7





#19

1,1-Dichloroethane

Concen: 27.174 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

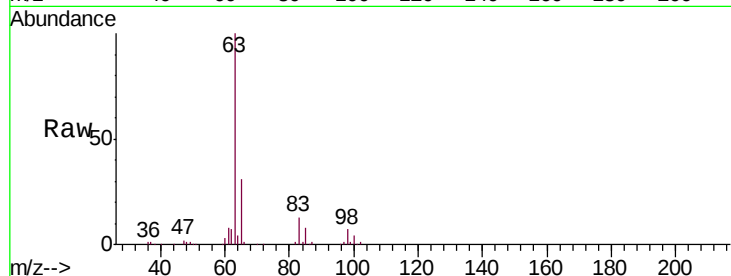
Tgt Ion: 63 Resp: 234760

Ion Ratio Lower Upper

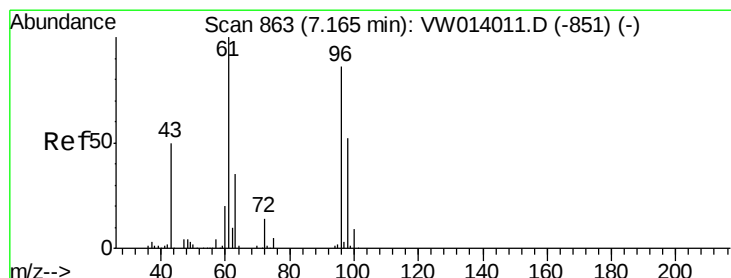
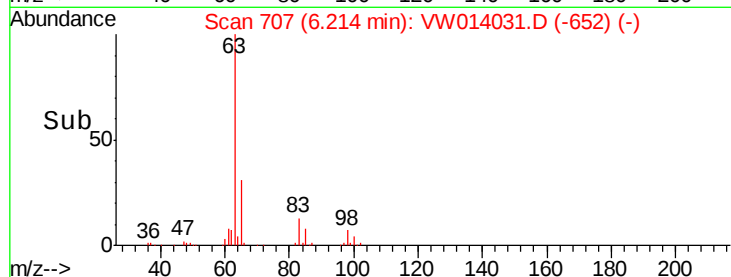
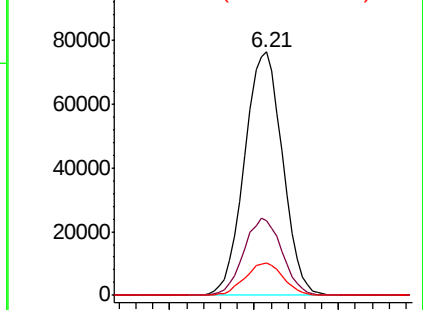
63 100

65 30.6 22.1 41.1

83 13.1 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: 51.579 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014031.D

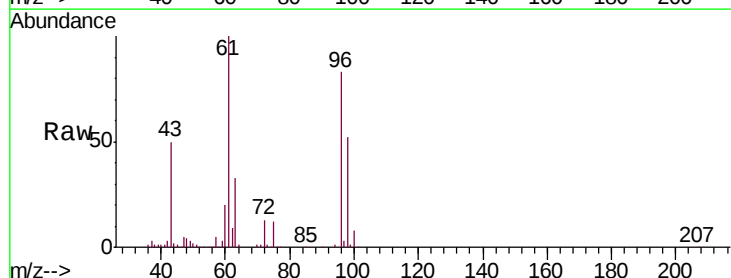
Acq: 14 Nov 2019 20:17

Tgt Ion: 43 Resp: 91061

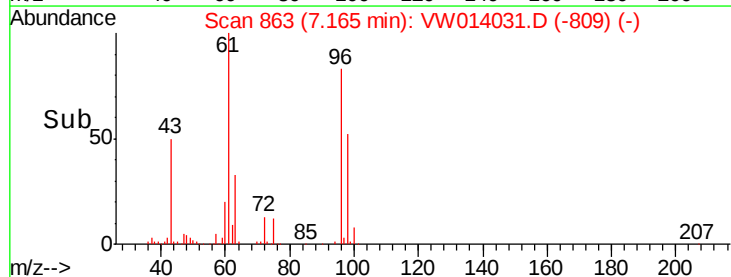
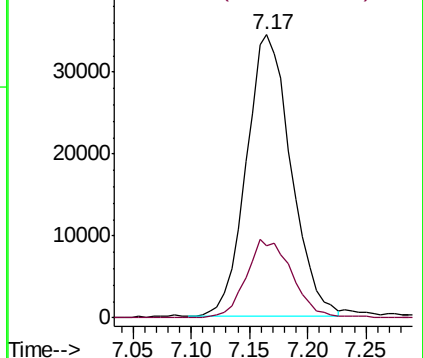
Ion Ratio Lower Upper

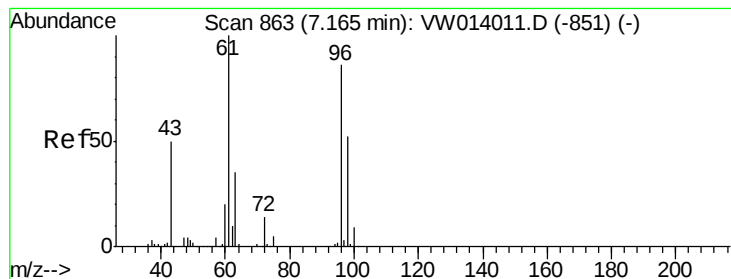
43 100

72 28.4 14.1 42.2



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



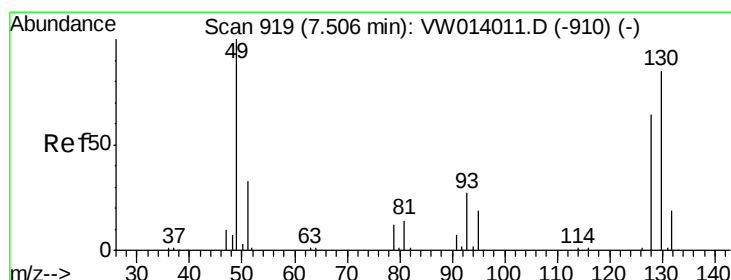
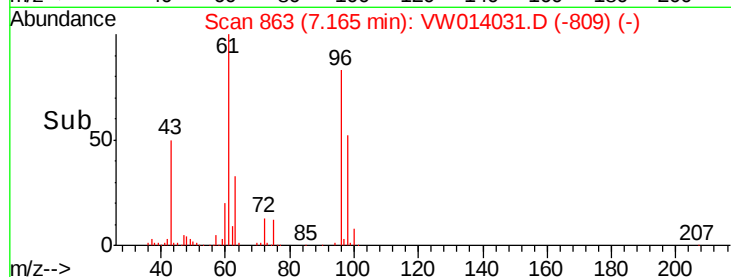
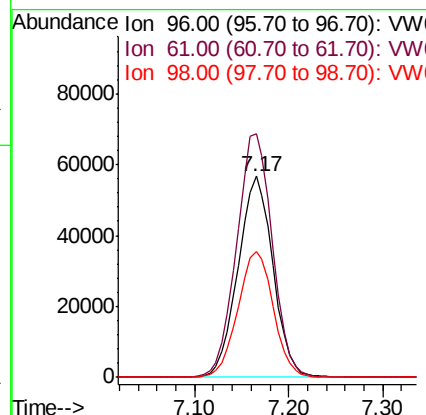
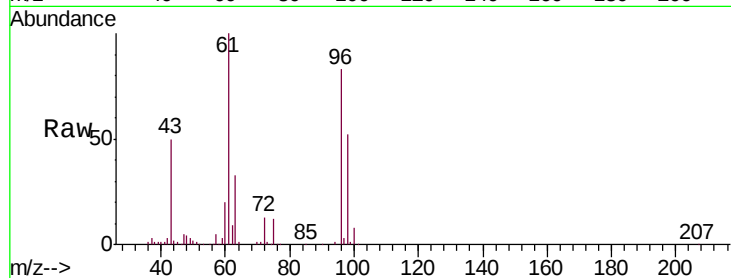


#22

cis-1,2-Dichloroethene
 Concen: 27.314 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014031.D
 Acq: 14 Nov 2019 20:17

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

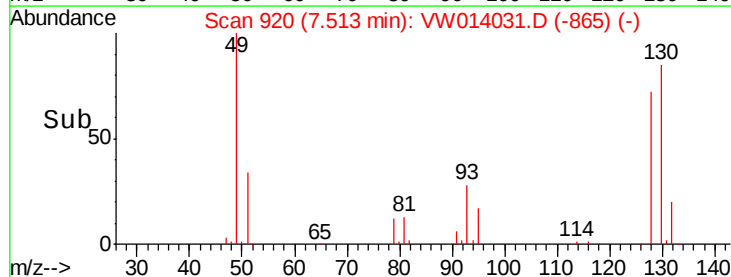
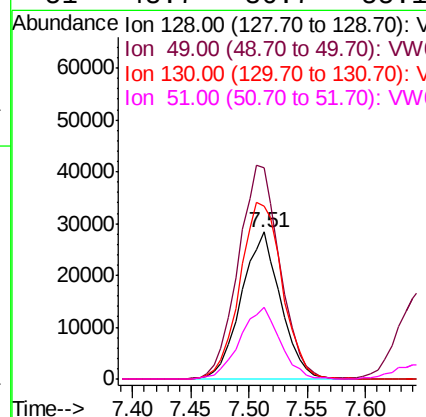
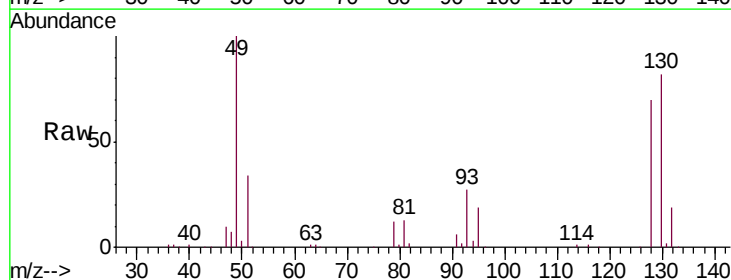
Tgt Ion: 96 Resp: 147419
 Ion Ratio Lower Upper
 96 100
 61 121.0 86.9 161.5
 98 62.4 45.5 84.5

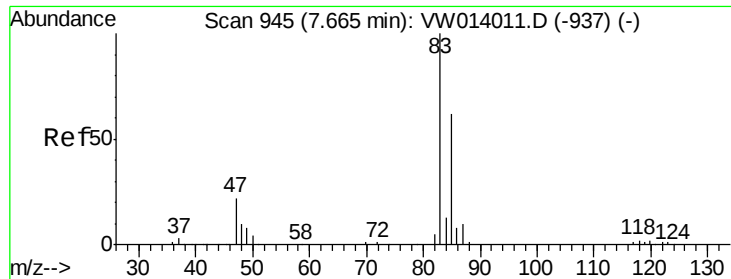


#23

Bromochloromethane
 Concen: 28.124 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW014031.D
 Acq: 14 Nov 2019 20:17

Tgt Ion: 128 Resp: 66631
 Ion Ratio Lower Upper
 128 100
 49 143.7 95.1 176.5
 130 117.7 85.0 158.0
 51 48.7 36.7 55.1

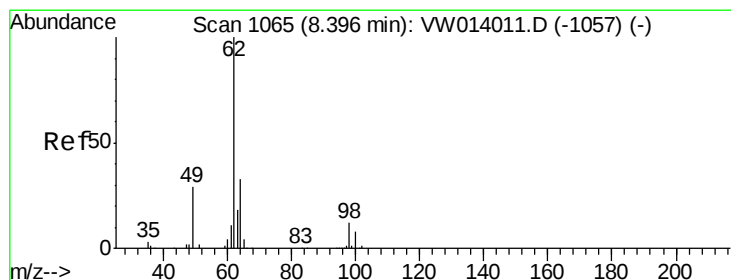
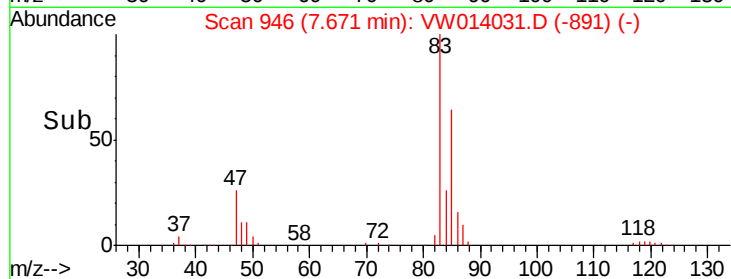
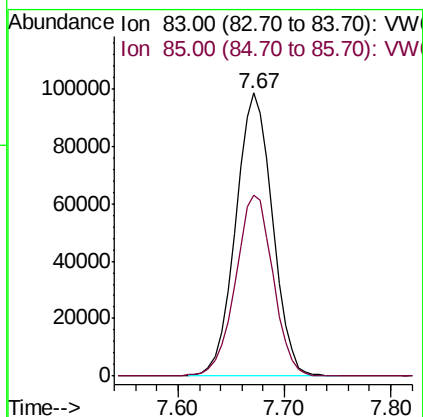
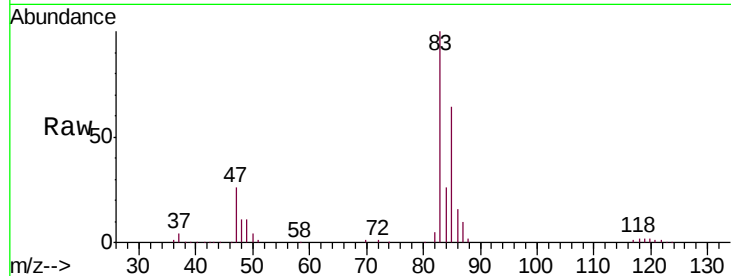




#25
Chloroform
Concen: 28.131 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.01 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

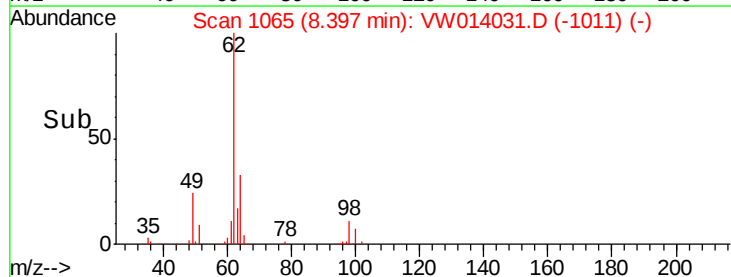
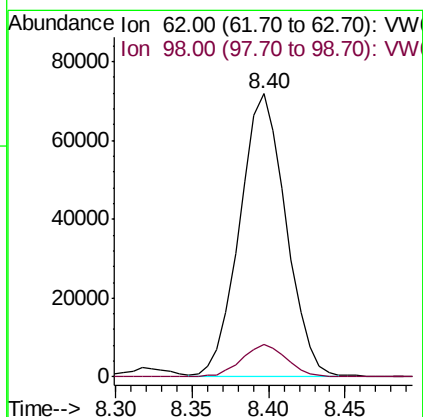
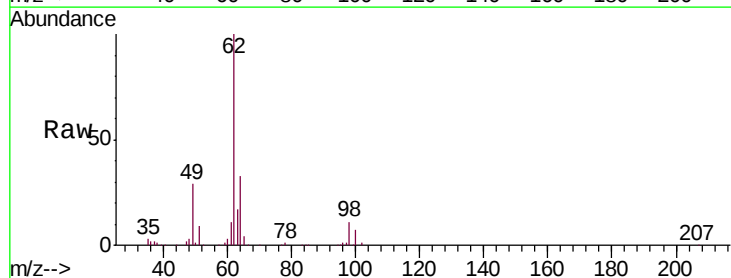
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

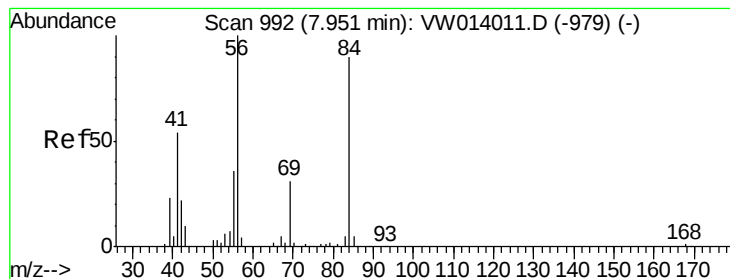
Tgt Ion: 83 Resp: 238657
Ion Ratio Lower Upper
83 100
85 65.2 46.1 85.7



#27
1,2-Dichloroethane
Concen: 29.520 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

Tgt Ion: 62 Resp: 151628
Ion Ratio Lower Upper
62 100
98 11.3 9.3 13.9





#30

Cyclohexane

Concen: 24.819 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampled :

VSTD02508

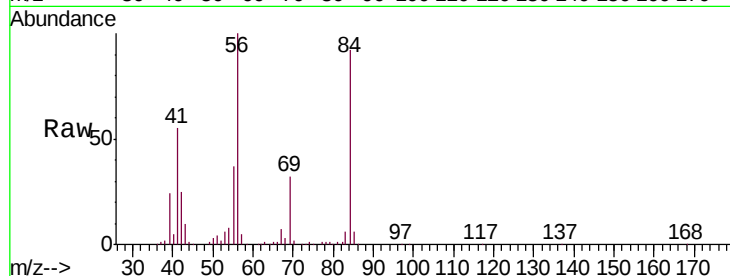
Tgt Ion: 56 Resp: 225900

Ion Ratio Lower Upper

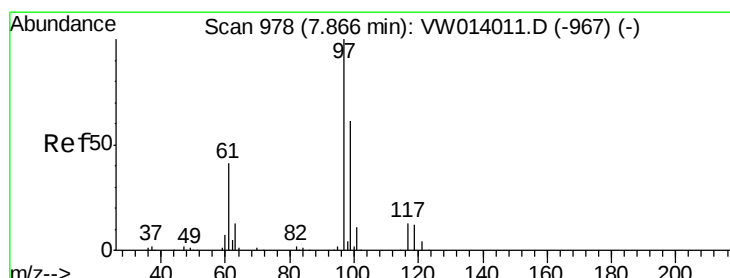
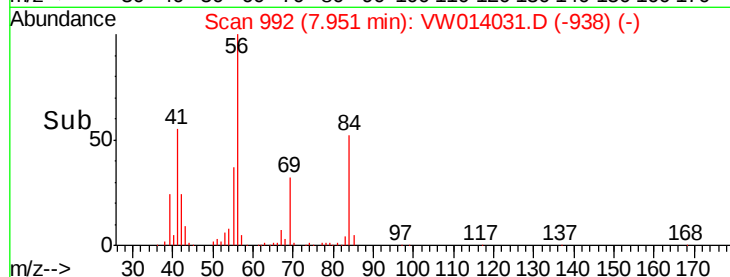
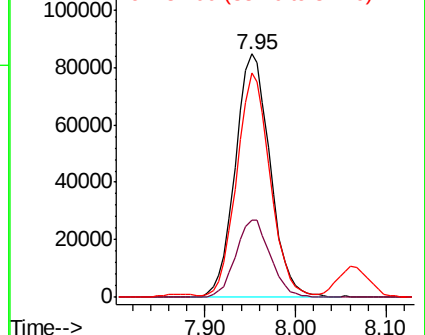
56 100

69 31.6 24.6 37.0

84 88.6 70.2 105.2



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: 25.752 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

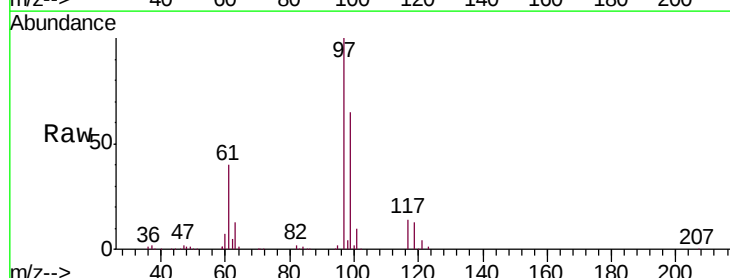
Tgt Ion: 97 Resp: 183557

Ion Ratio Lower Upper

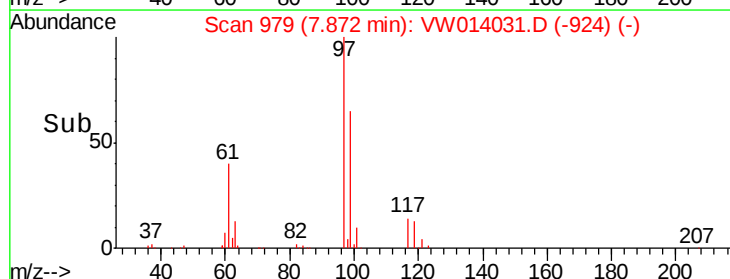
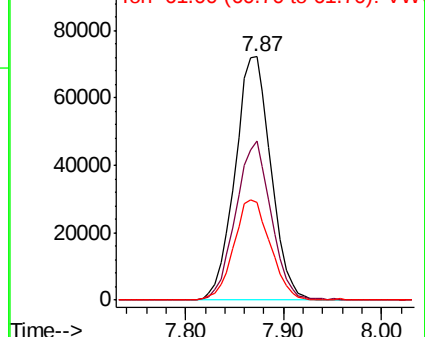
97 100

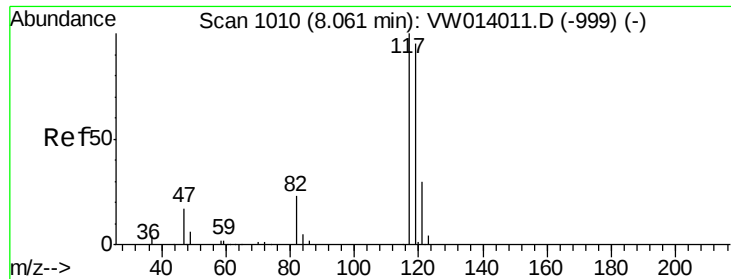
99 64.2 51.1 76.7

61 41.9 32.8 49.2



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: 26.000 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

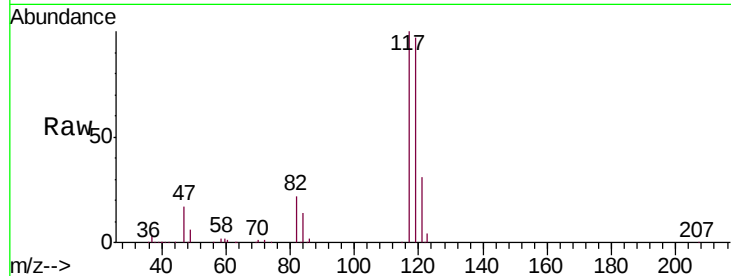
VSTD02508

Tgt Ion:117 Resp: 177901

Ion Ratio Lower Upper

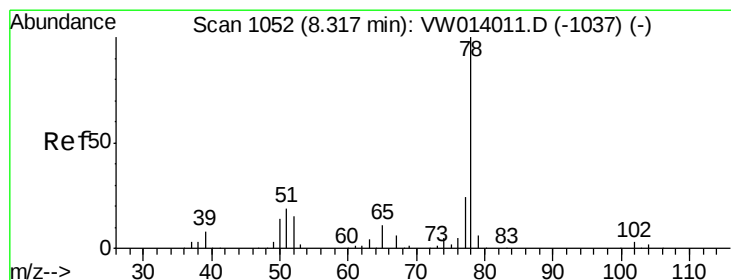
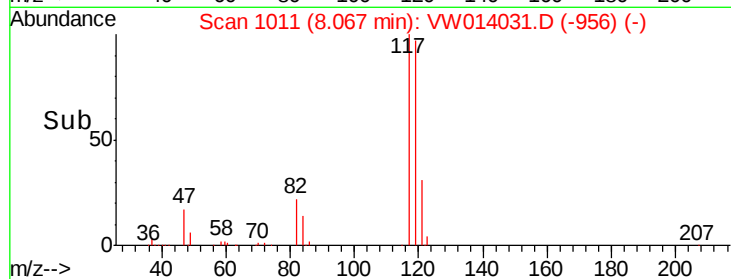
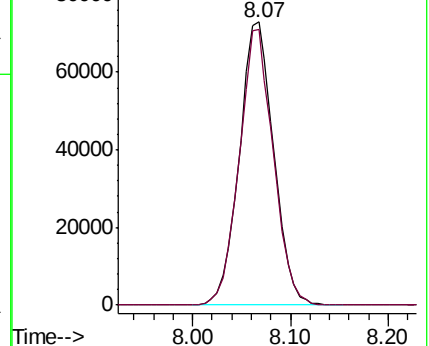
117 100

119 96.2 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: 26.434 ug/L

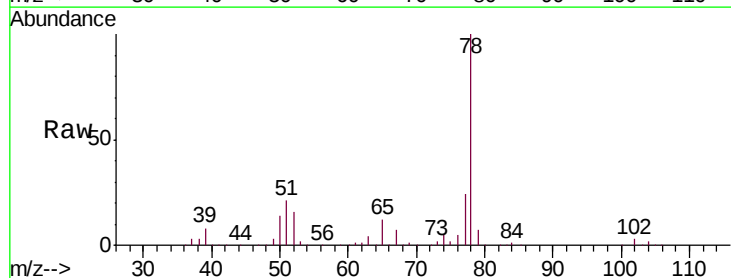
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

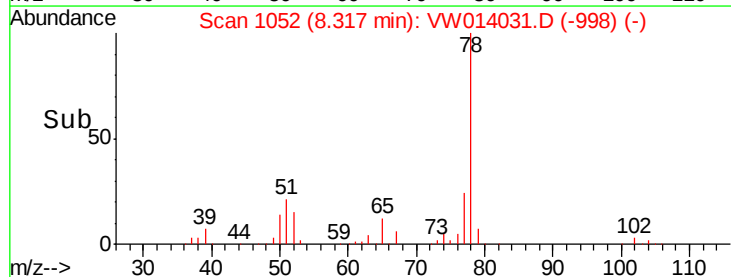
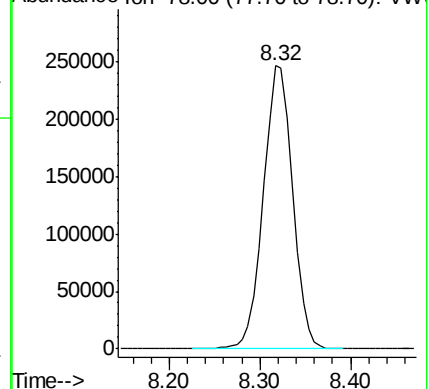
Lab File: VW014031.D

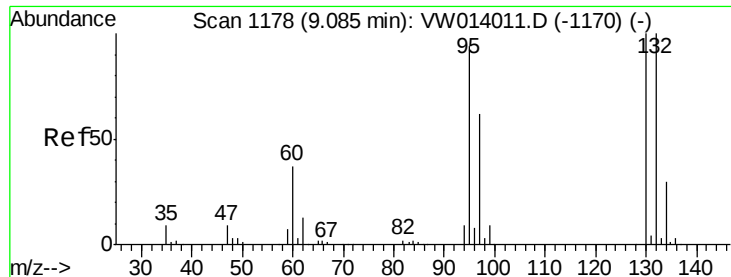
Acq: 14 Nov 2019 20:17

Tgt Ion: 78 Resp: 551455



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 25.183 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

Tgt Ion: 95 Resp: 140143

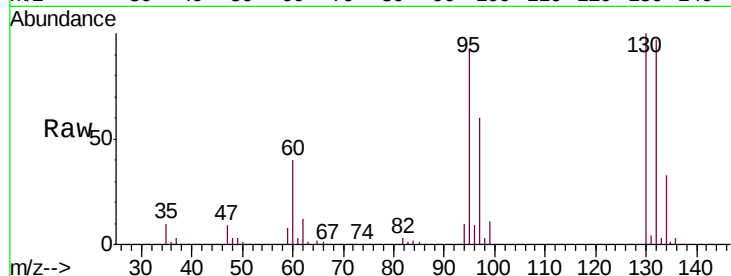
Ion Ratio Lower Upper

95 100

97 63.9 45.1 83.9

132 105.7 73.7 136.9

130 109.8 76.6 142.2



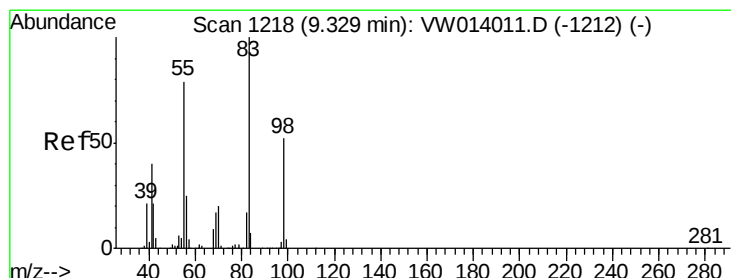
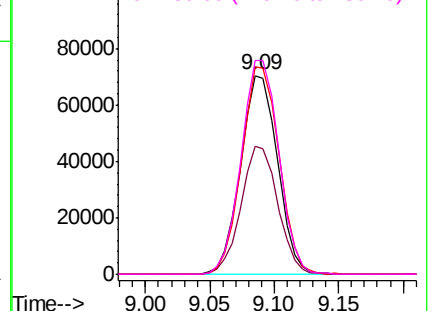
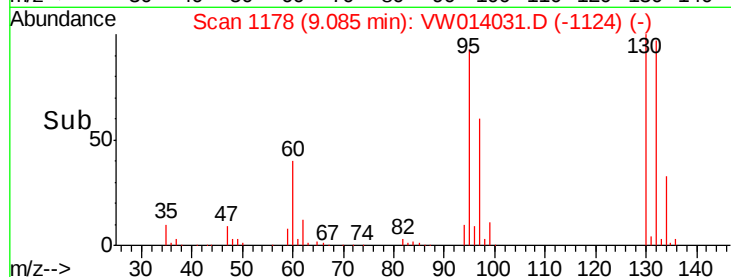
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 25.052 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

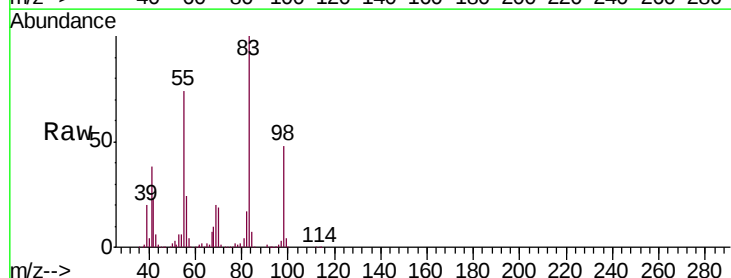
Tgt Ion: 83 Resp: 249967

Ion Ratio Lower Upper

83 100

55 77.1 59.8 89.8

98 49.4 39.5 59.3

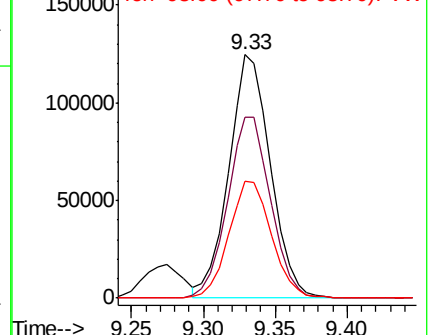
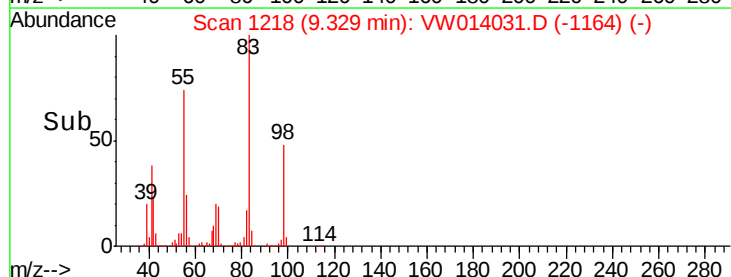


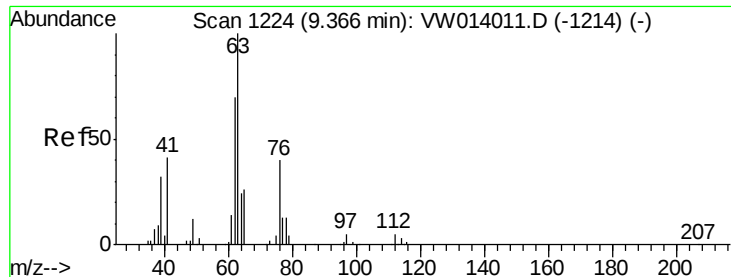
Abundance

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

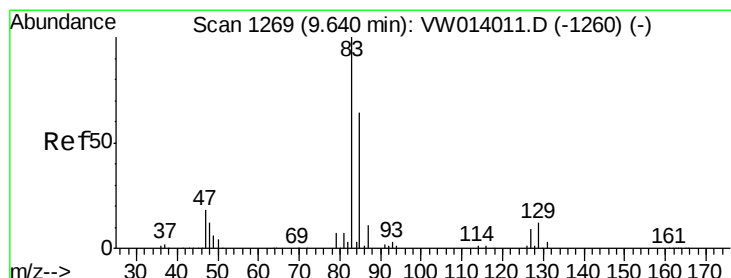
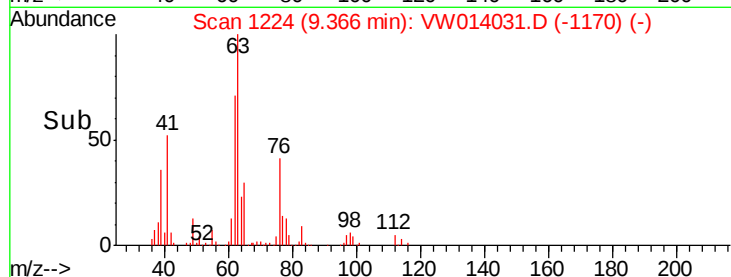
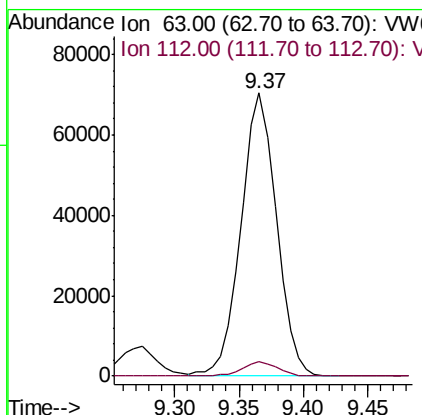
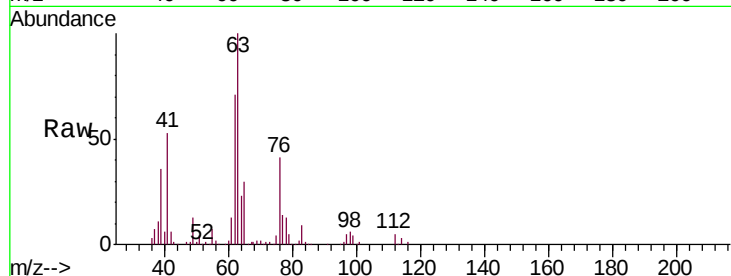




#40
 1,2-Dichloropropane
 Concen: 26.744 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014031.D
 Acq: 14 Nov 2019 20:17

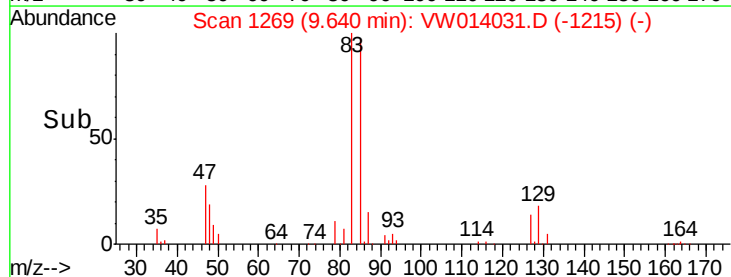
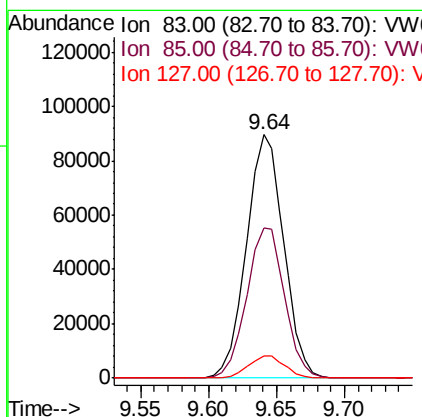
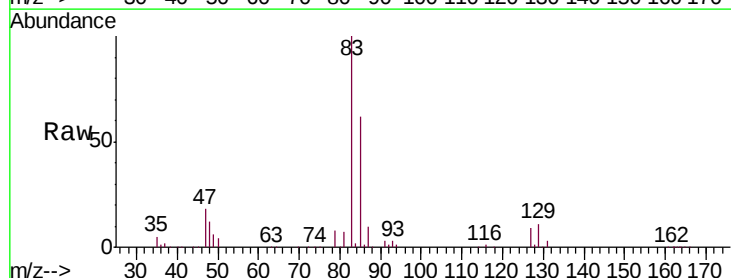
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

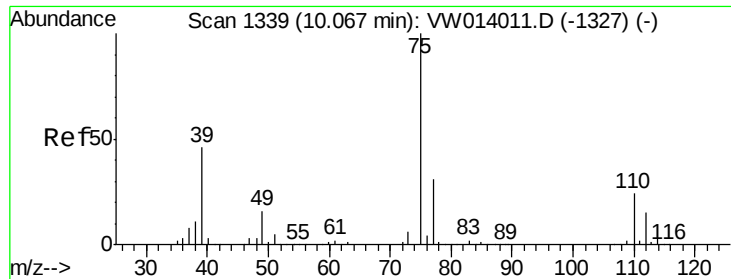
Tgt Ion: 63 Resp: 134312
 Ion Ratio Lower Upper
 63 100
 112 5.1 3.9 5.9



#41
 Bromodichloromethane
 Concen: 28.336 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW014031.D
 Acq: 14 Nov 2019 20:17

Tgt Ion: 83 Resp: 172036
 Ion Ratio Lower Upper
 83 100
 85 61.6 45.1 83.7
 127 8.9 7.4 11.0

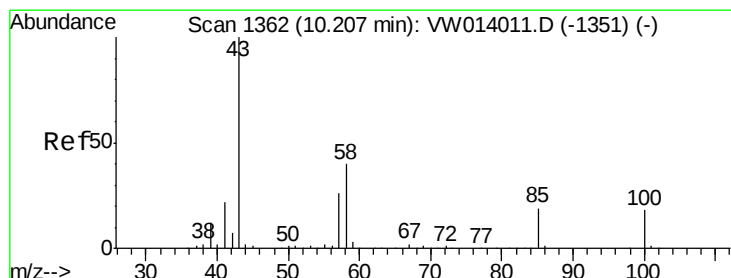
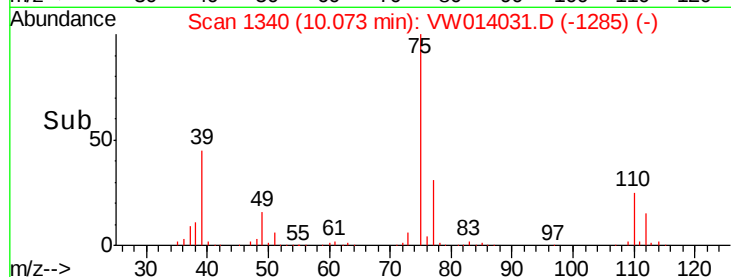
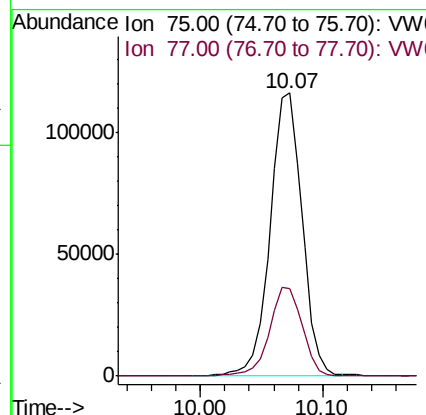
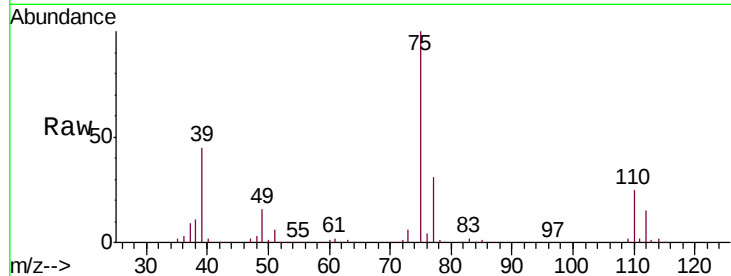




#42
 cis-1,3-Dichloropropene
 Concen: 26.774 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.01 min
 Lab File: VW014031.D
 Acq: 14 Nov 2019 20:17

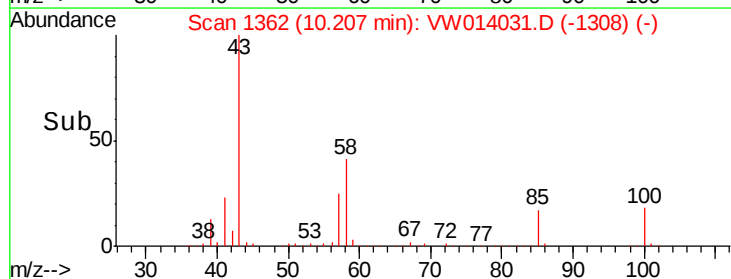
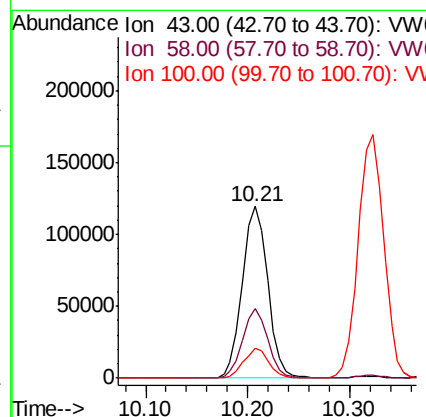
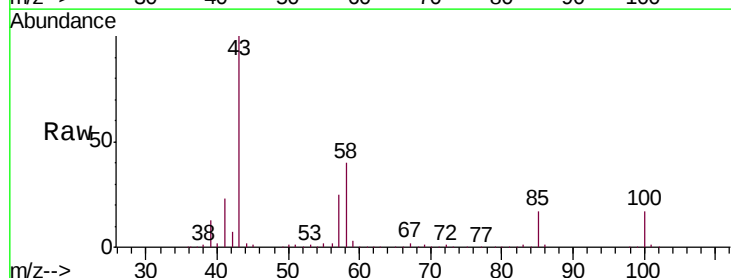
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

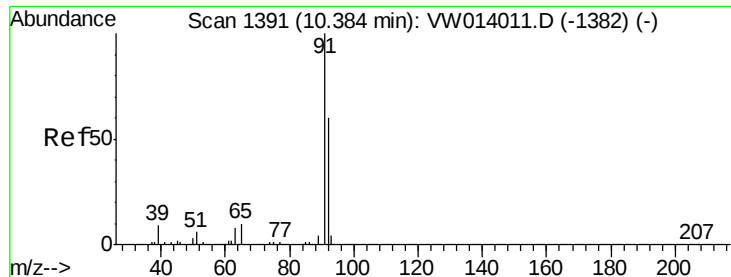
Tgt Ion: 75 Resp: 212189
 Ion Ratio Lower Upper
 75 100
 77 30.7 22.1 41.1



#43
 4-Methyl-2-pentanone
 Concen: 62.568 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VW014031.D
 Acq: 14 Nov 2019 20:17

Tgt Ion: 43 Resp: 207463
 Ion Ratio Lower Upper
 43 100
 58 39.7 32.6 49.0
 100 16.9 13.8 20.8





#44

Toluene

Concen: 26.299 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

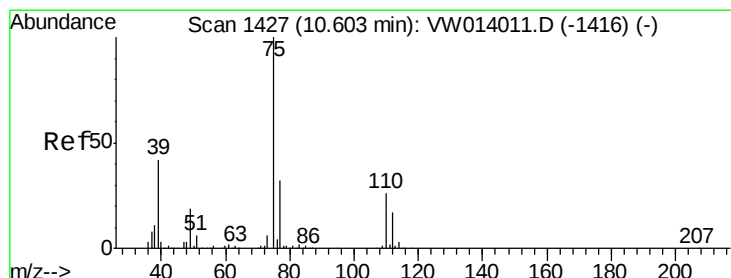
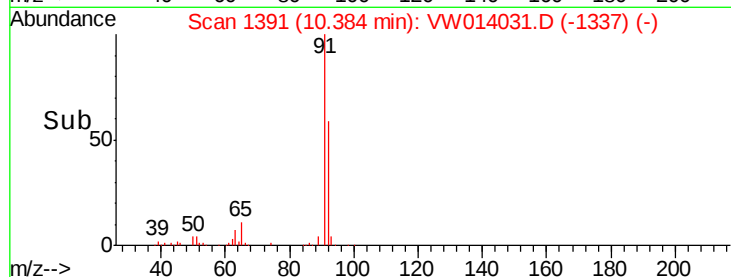
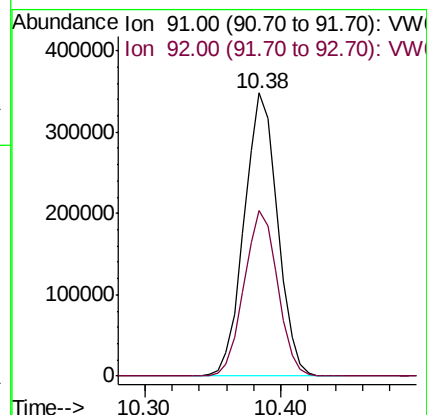
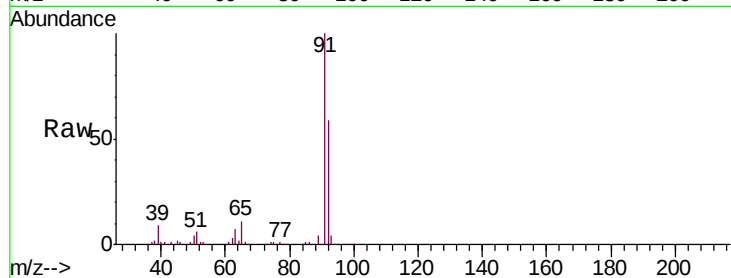
VSTD02508

Tgt Ion: 91 Resp: 598175

Ion Ratio Lower Upper

91 100

92 58.6 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 27.914 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014031.D

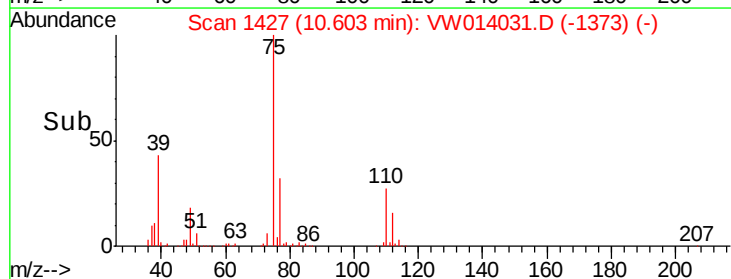
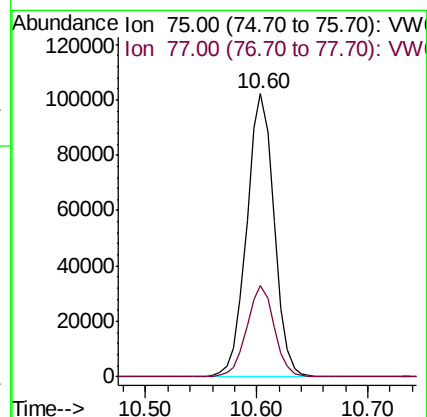
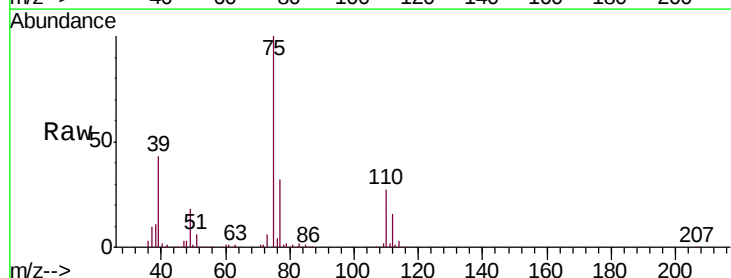
Acq: 14 Nov 2019 20:17

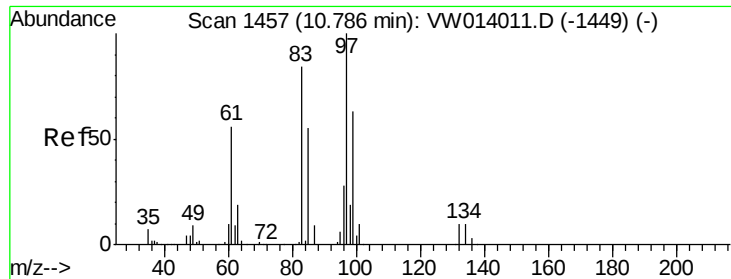
Tgt Ion: 75 Resp: 174943

Ion Ratio Lower Upper

75 100

77 32.1 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 28.320 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

Tgt Ion: 97 Resp: 104500

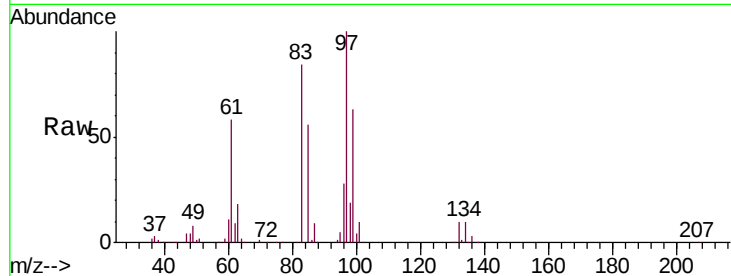
Ion Ratio Lower Upper

97 100

83 83.9 58.9 109.5

85 55.5 38.1 70.9

99 63.1 46.5 86.3



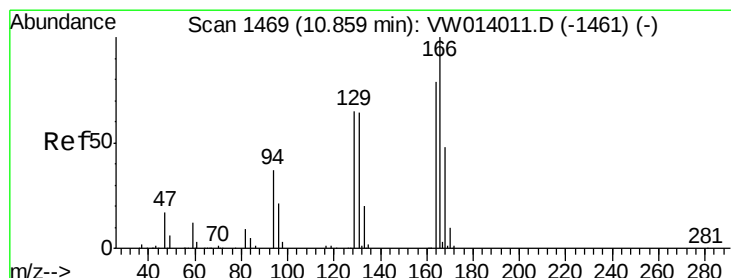
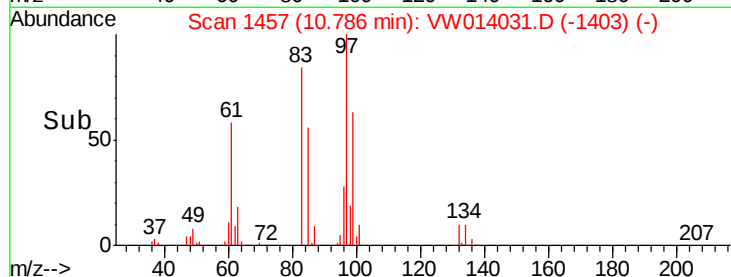
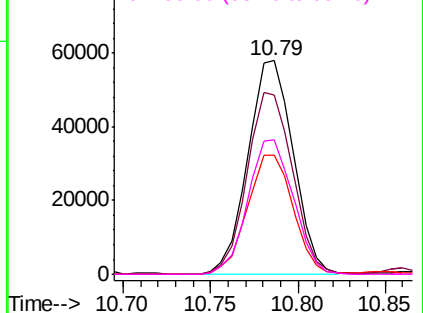
Abundance

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: 26.094 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Tgt Ion: 164 Resp: 129431

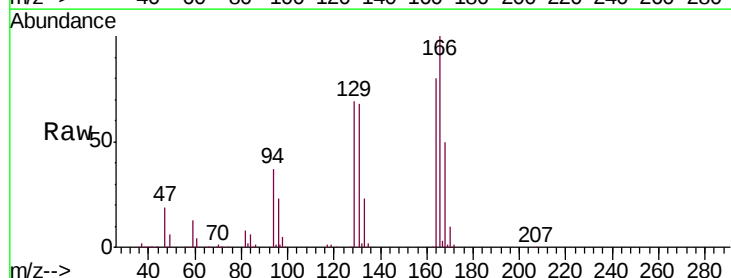
Ion Ratio Lower Upper

164 100

129 86.1 60.6 112.6

131 85.1 59.1 109.7

166 125.2 90.8 168.6



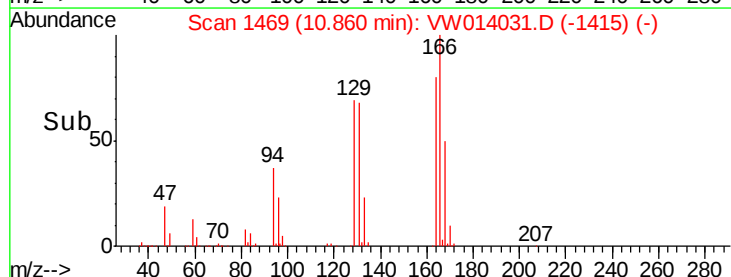
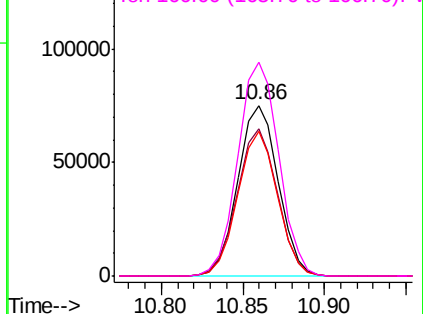
Abundance

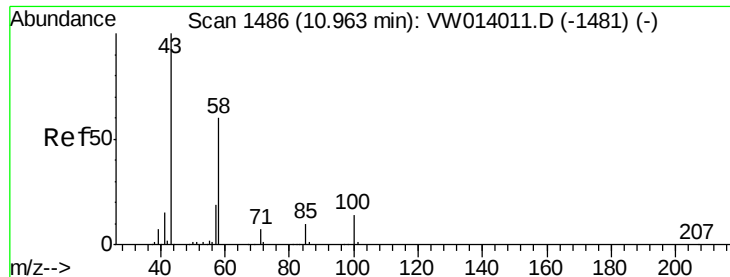
Ion 164.00 (163.70 to 164.70): V

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: 59.748 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

Tgt Ion: 43 Resp: 142831

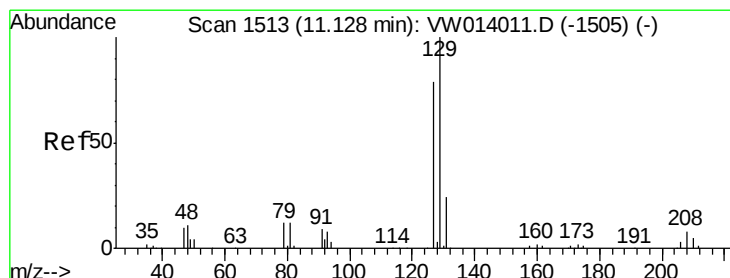
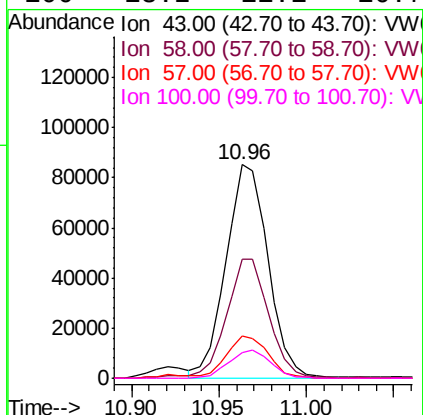
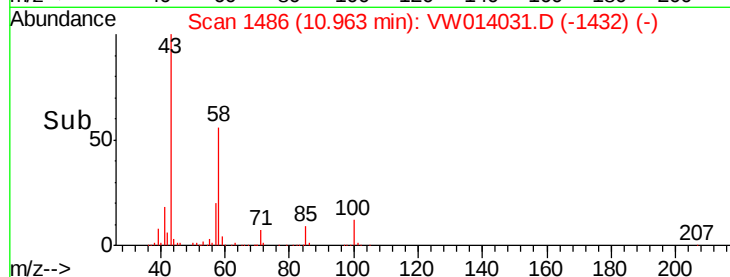
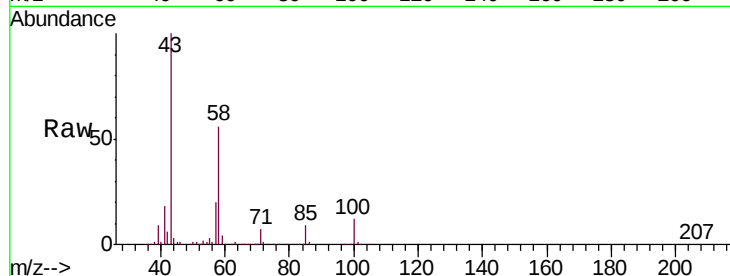
Ion Ratio Lower Upper

43 100

58 55.8 44.4 66.6

57 19.4 16.5 24.7

100 13.2 11.1 16.7



#50

Dibromochloromethane

Concen: 28.805 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW014031.D

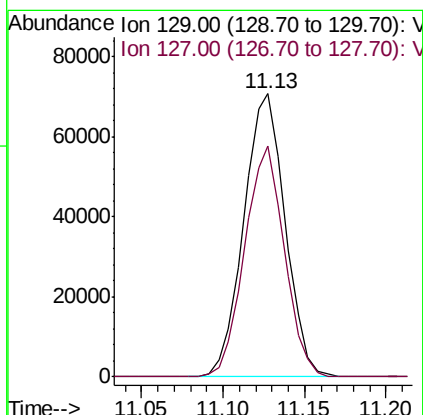
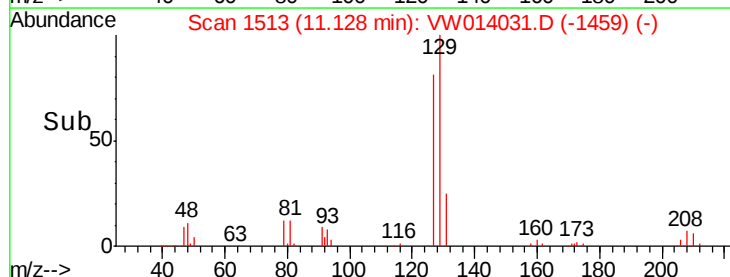
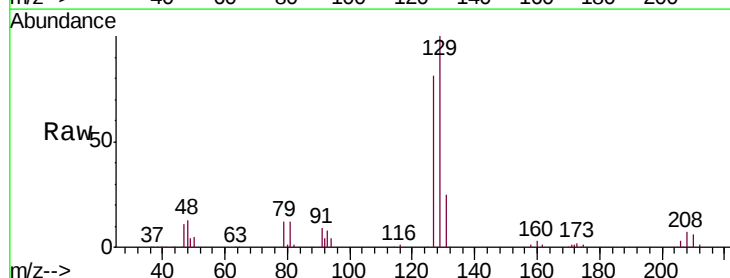
Acq: 14 Nov 2019 20:17

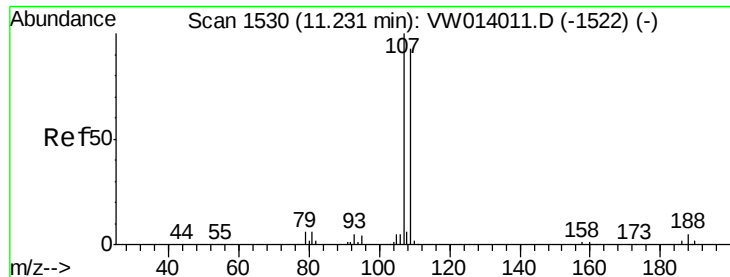
Tgt Ion: 129 Resp: 124935

Ion Ratio Lower Upper

129 100

127 81.4 54.9 102.1





#51

1,2-Dibromoethane

Concen: 28.821 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

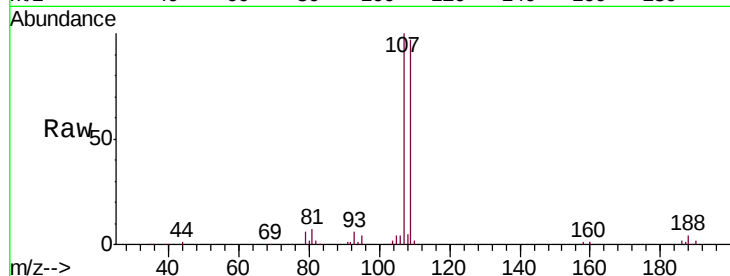
Tgt Ion:107 Resp: 103184

Ion Ratio Lower Upper

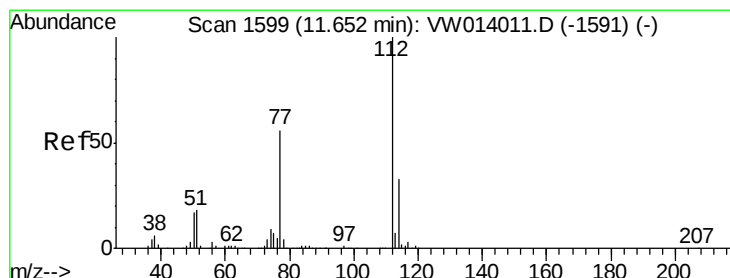
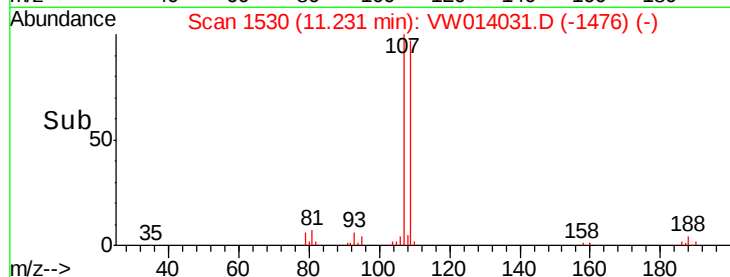
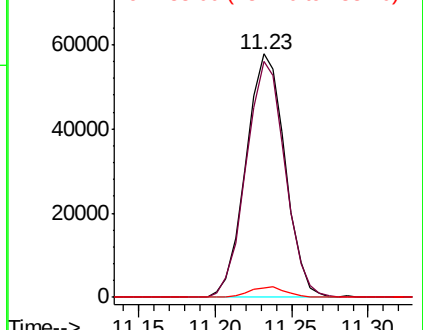
107 100

109 96.8 64.6 120.0

188 4.1 3.9 5.9



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



#52

Chlorobenzene

Concen: 26.643 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

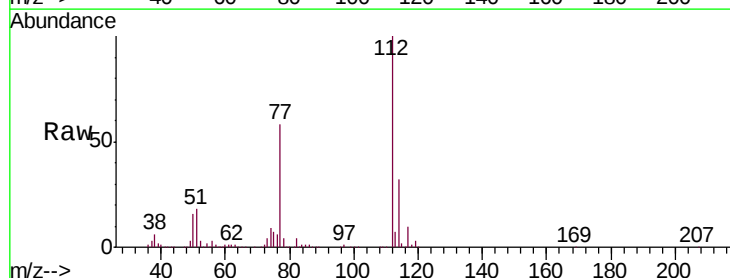
Tgt Ion:112 Resp: 379914

Ion Ratio Lower Upper

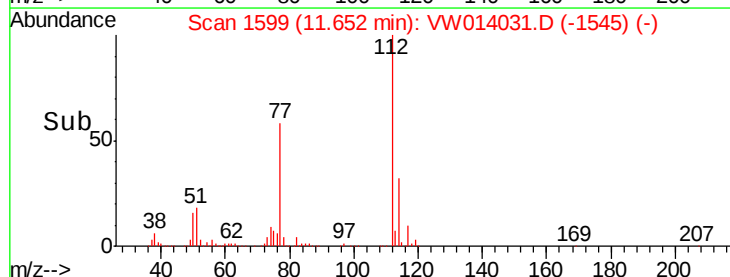
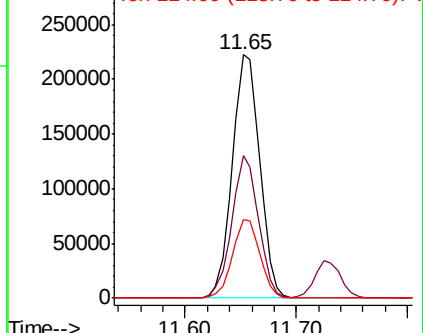
112 100

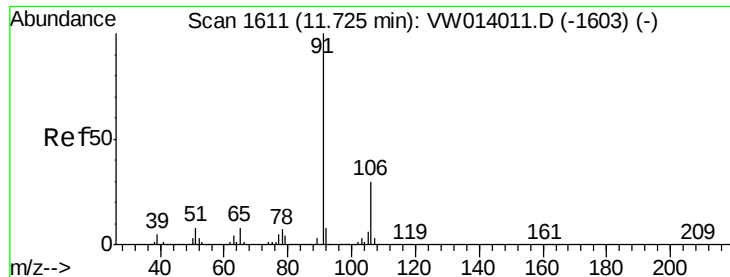
77 58.3 42.2 63.4

114 32.1 22.5 41.9



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V

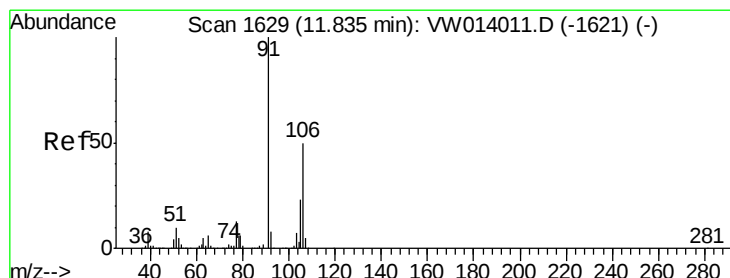
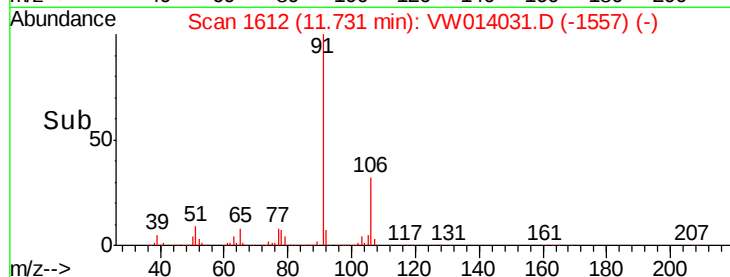
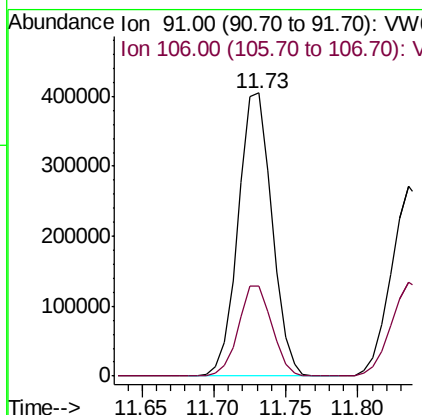
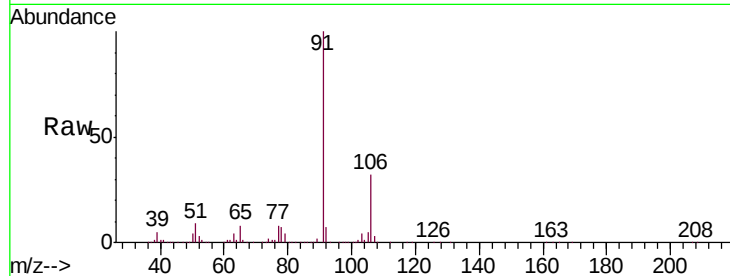




#53
Ethylbenzene
Concen: 26.426 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.01 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

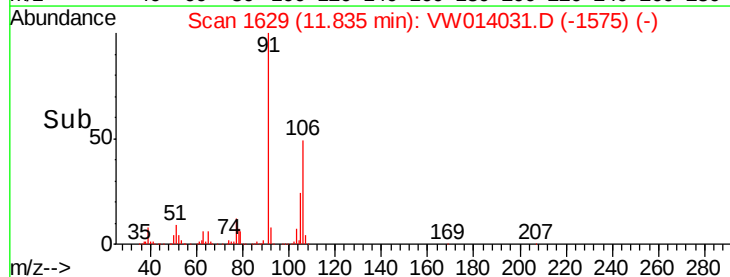
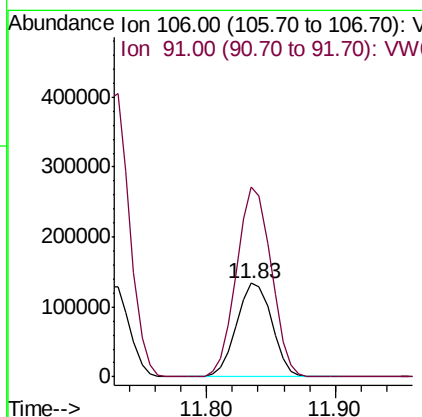
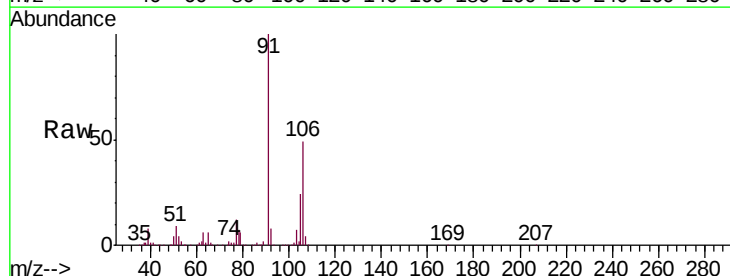
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

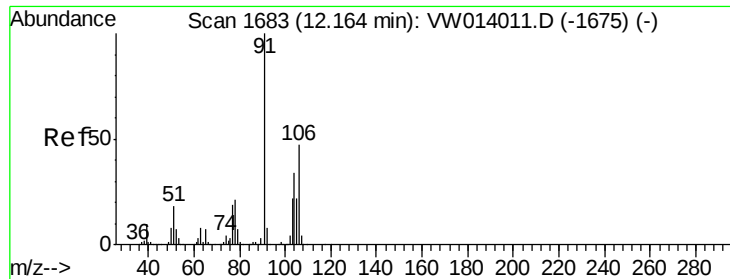
Tgt Ion: 91 Resp: 659588
Ion Ratio Lower Upper
91 100
106 31.8 22.3 41.5



#54
m,p-Xylene
Concen: 26.315 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

Tgt Ion: 106 Resp: 255252
Ion Ratio Lower Upper
106 100
91 202.1 138.7 257.5

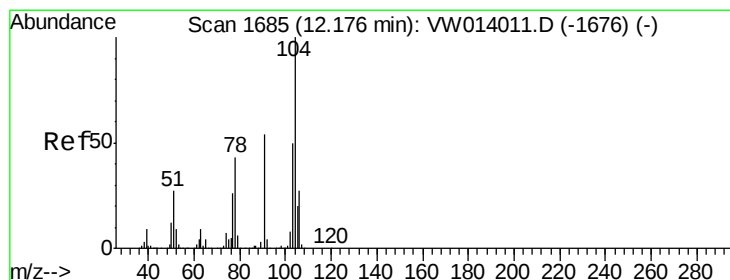
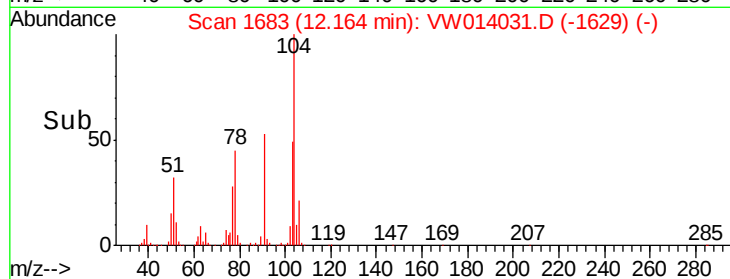
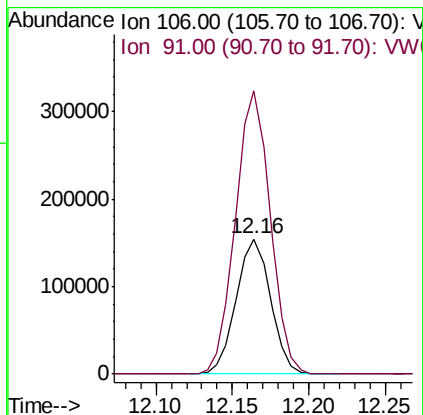
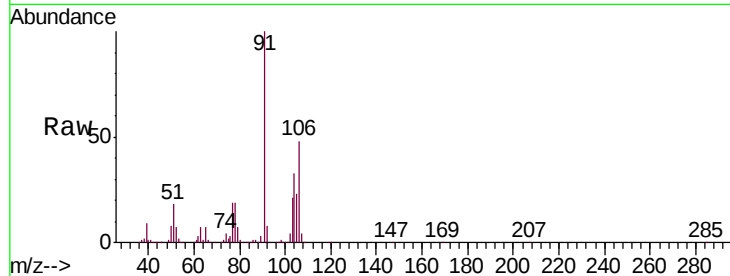




#55
o-xylene
Concen: 26.654 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

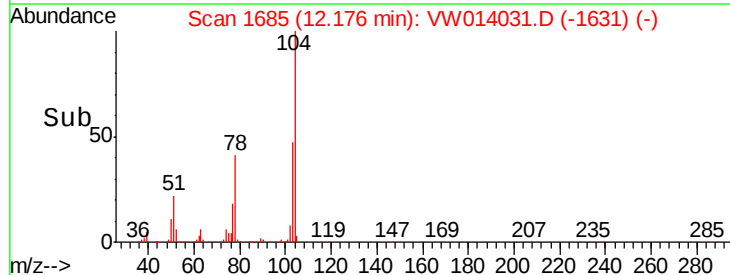
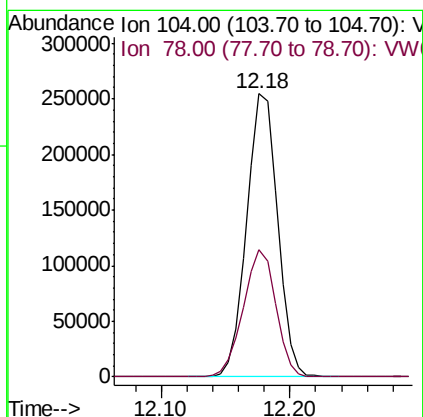
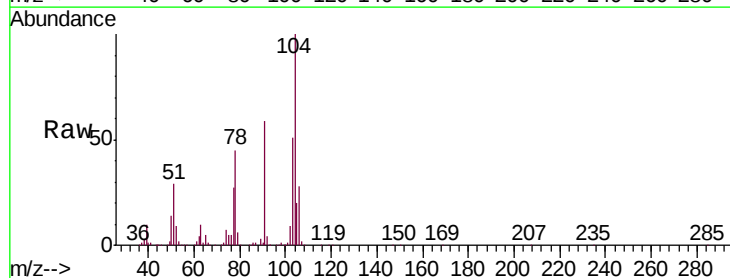
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

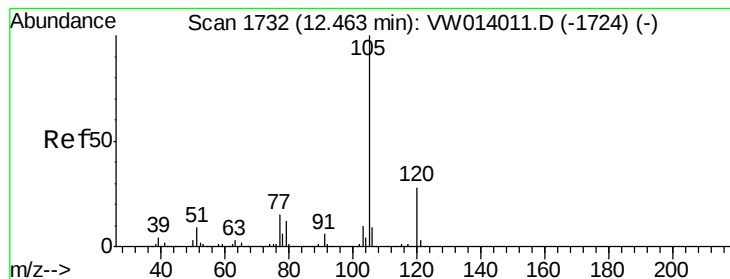
Tgt Ion:106 Resp: 242107
Ion Ratio Lower Upper
106 100
91 209.0 148.3 275.5



#56
Styrene
Concen: 27.505 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW014031.D
Acq: 14 Nov 2019 20:17

Tgt Ion:104 Resp: 422046
Ion Ratio Lower Upper
104 100
78 44.9 30.6 56.8





#57

Isopropylbenzene

Concen: 26.706 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

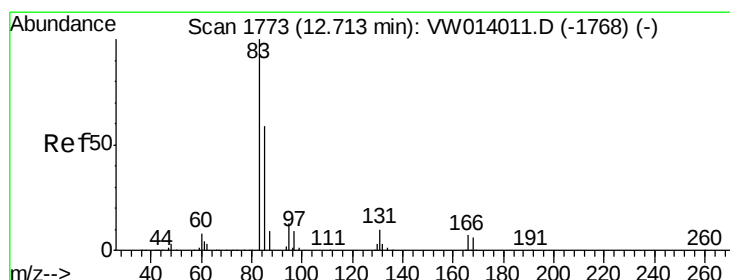
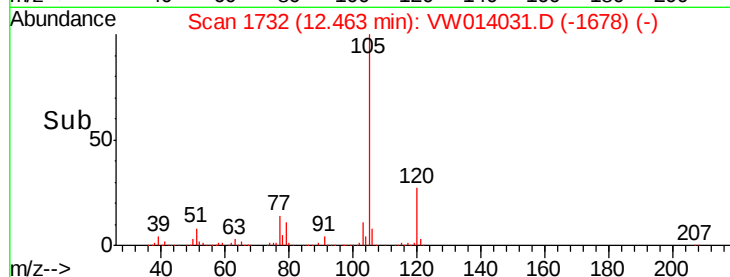
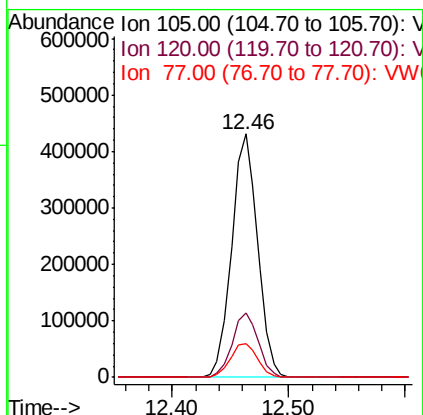
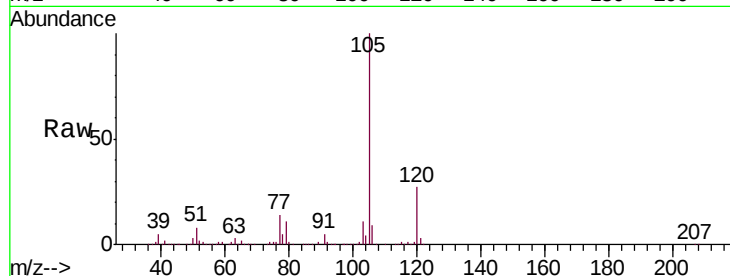
Tgt Ion: 105 Resp: 666957

Ion Ratio Lower Upper

105 100

120 26.7 21.6 32.4

77 14.5 11.6 17.4



#58

1,1,2,2-Tetrachloroethane

Concen: 31.078 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

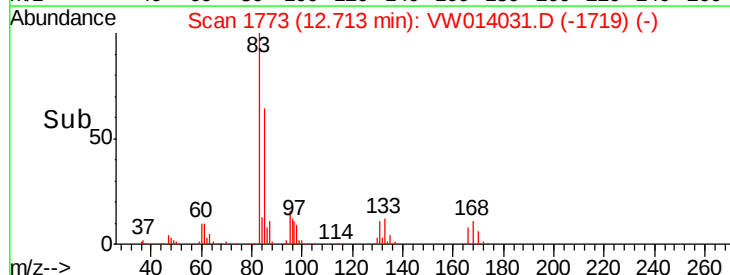
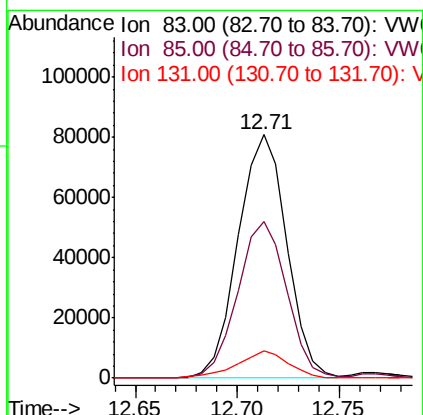
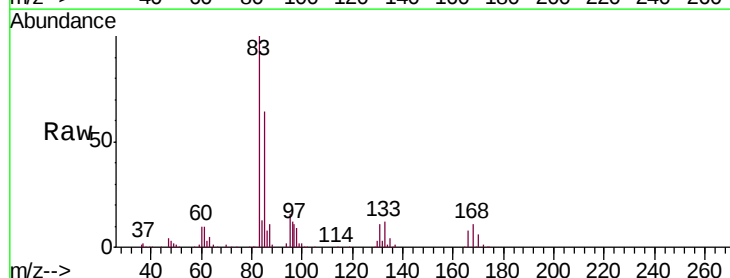
Tgt Ion: 83 Resp: 133888

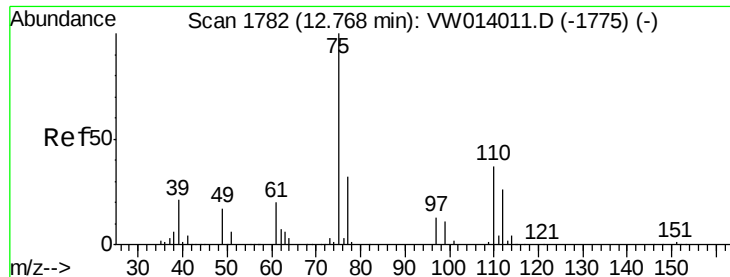
Ion Ratio Lower Upper

83 100

85 64.4 43.7 81.1

131 11.0 8.2 12.2





#59

1,2,3-Trichloropropane

Concen: 30.288 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

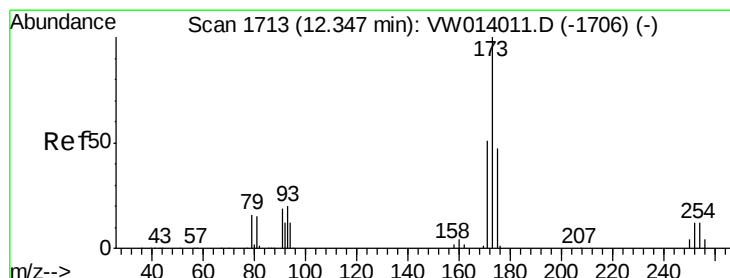
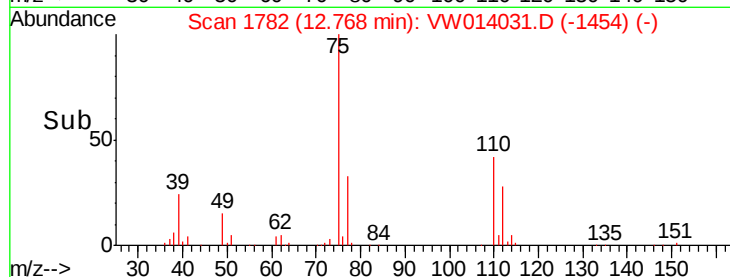
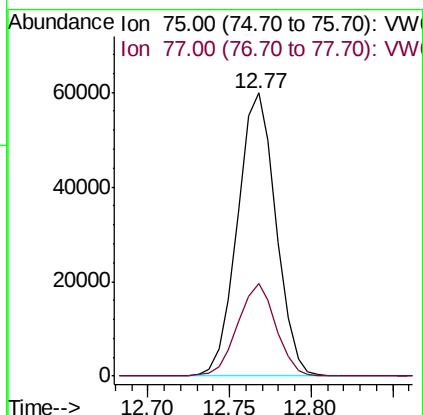
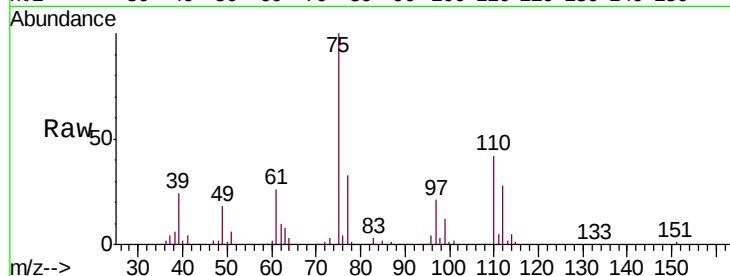
VSTD02508

Tgt Ion: 75 Resp: 98134

Ion Ratio Lower Upper

75 100

77 32.7 25.9 38.9



#62

Bromoform

Concen: 28.187 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

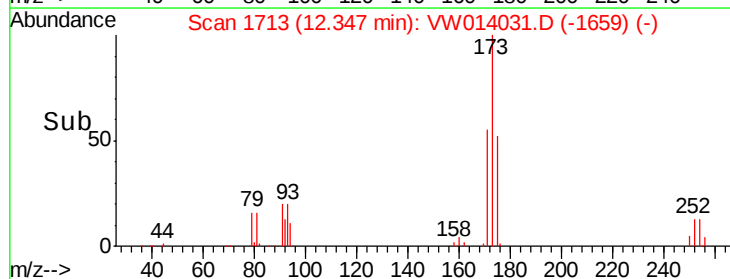
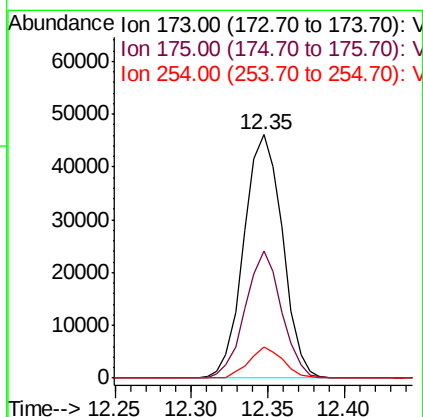
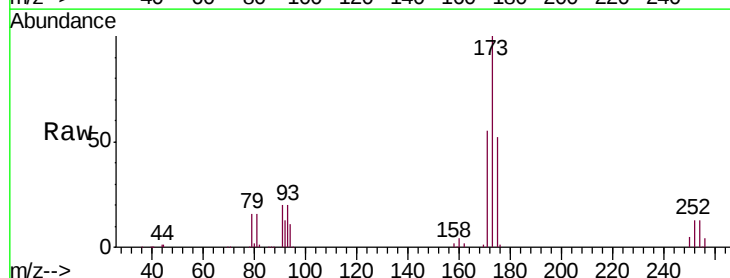
Tgt Ion: 173 Resp: 81118

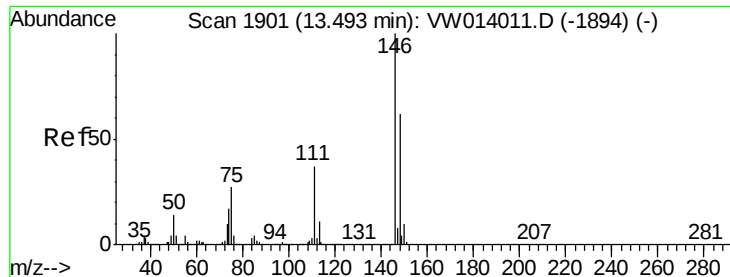
Ion Ratio Lower Upper

173 100

175 49.0 38.8 58.2

254 11.3 9.4 14.0





#63

1,3-Dichlorobenzene

Concen: 25.103 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.01 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

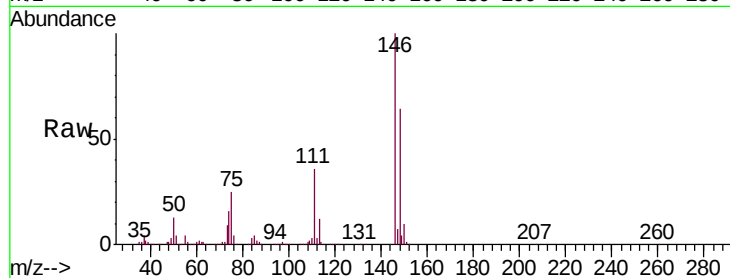
Tgt Ion:146 Resp: 309526

Ion Ratio Lower Upper

146 100

111 36.4 26.0 48.2

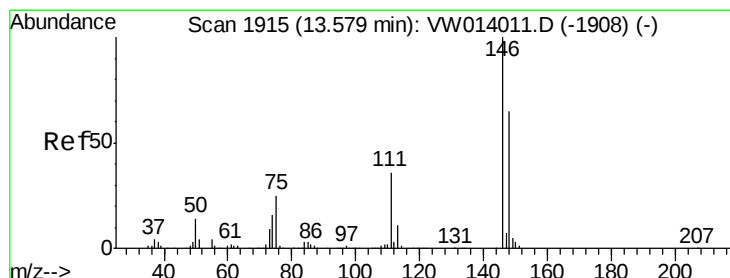
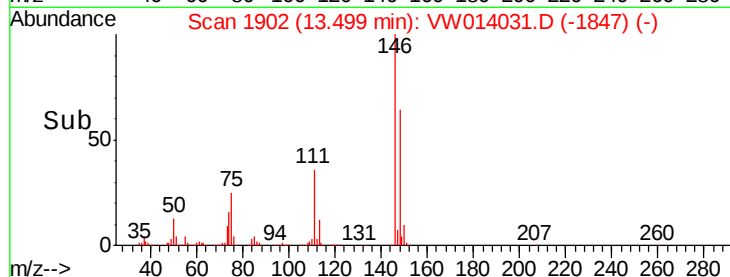
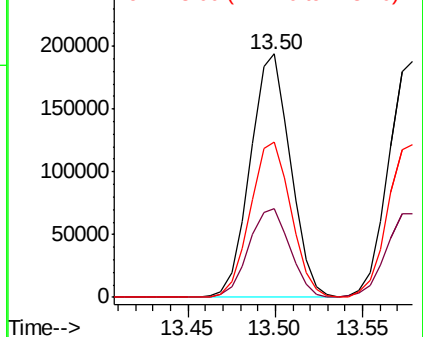
148 64.0 44.7 82.9



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: 25.223 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

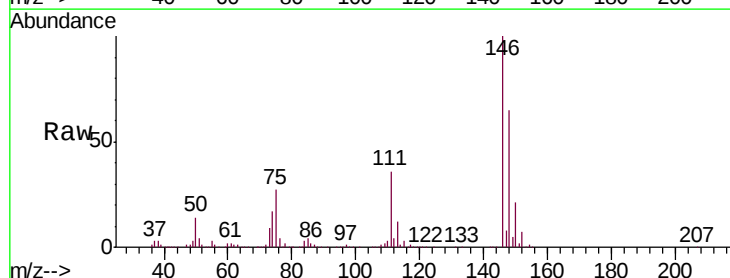
Tgt Ion:146 Resp: 307277

Ion Ratio Lower Upper

146 100

111 35.7 24.9 46.3

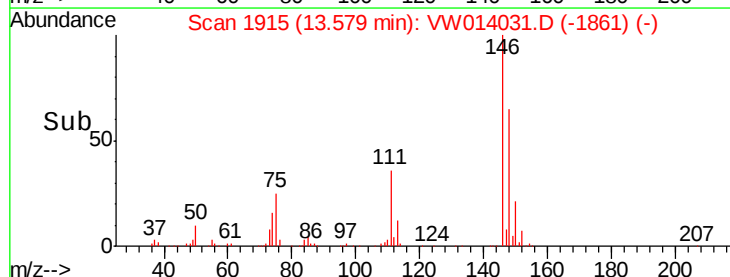
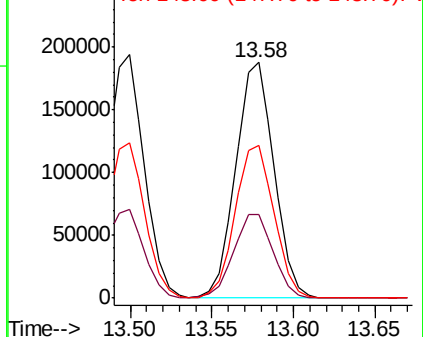
148 65.0 43.9 81.5

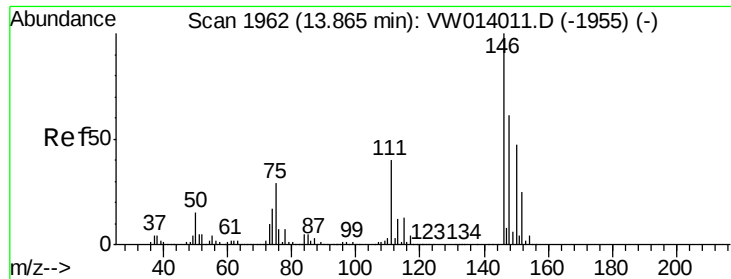


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 26.253 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

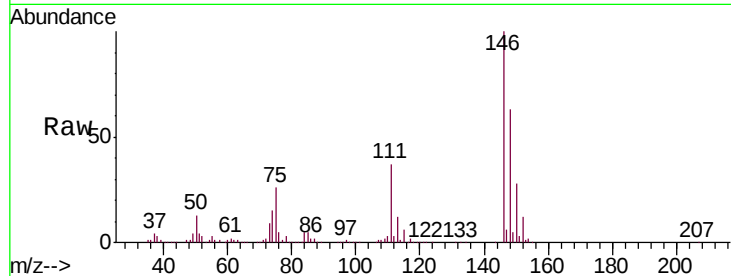
Tgt Ion:146 Resp: 286651

Ion Ratio Lower Upper

146 100

111 36.8 30.5 45.7

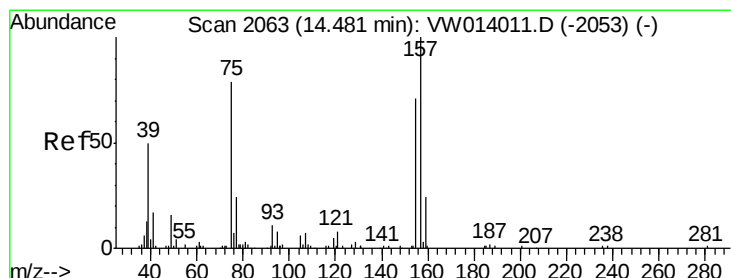
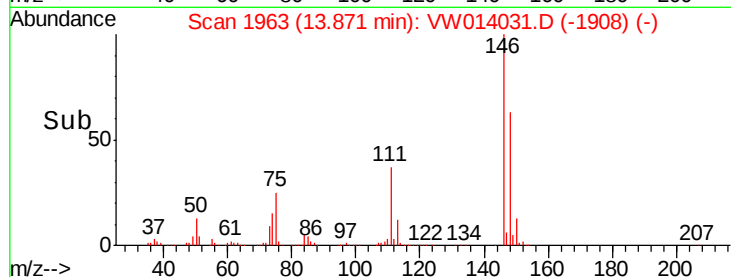
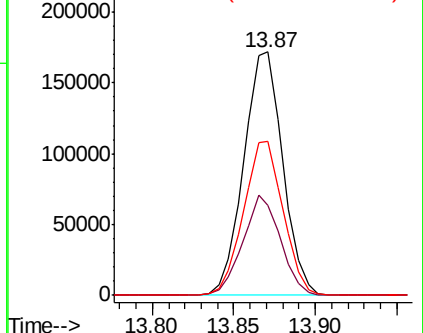
148 63.4 49.4 74.2



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: 29.944 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

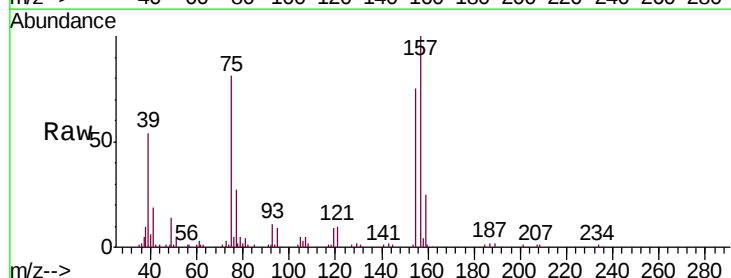
Tgt Ion: 75 Resp: 22266

Ion Ratio Lower Upper

75 100

157 122.8 96.9 145.3

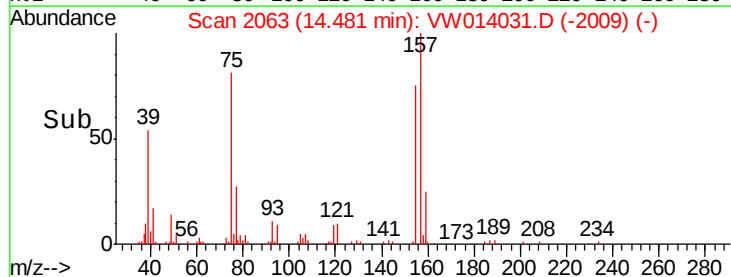
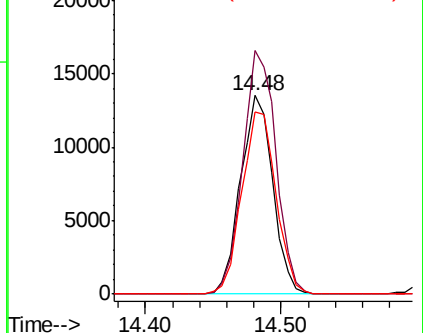
155 91.7 82.9 124.3

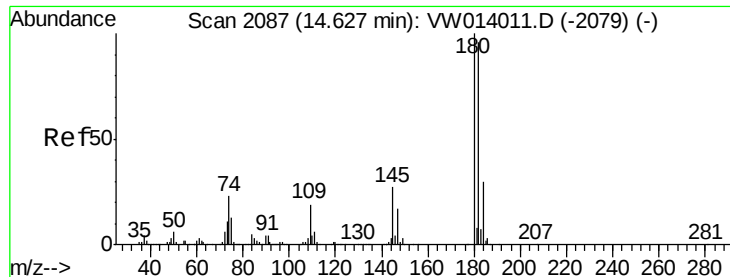


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

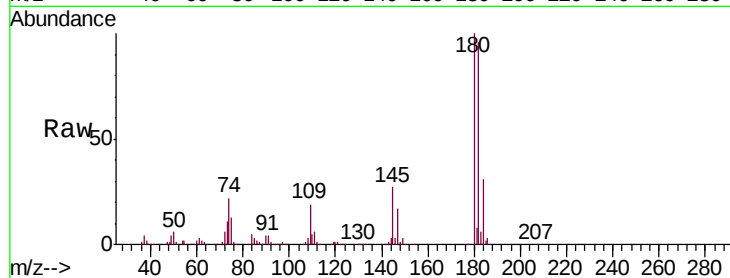




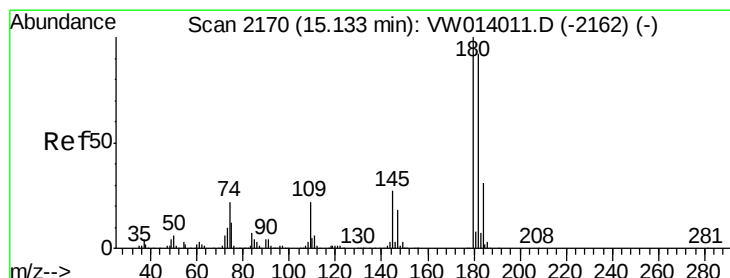
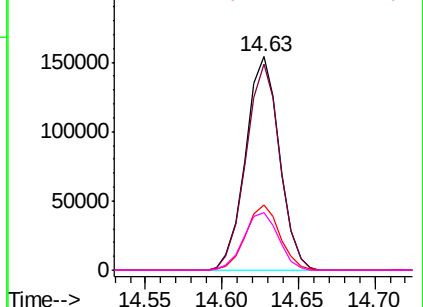
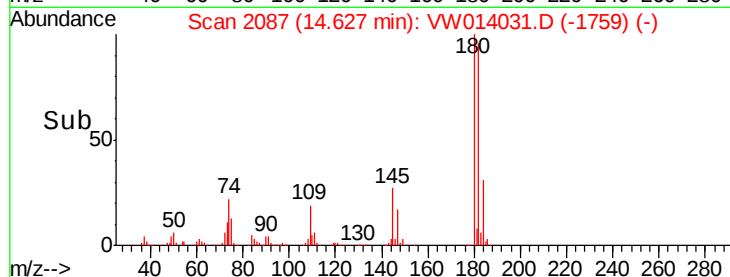
#67
 1,3,5-Trichlorobenzene
 Concen: 25.299 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014031.D
 Acq: 14 Nov 2019 20:17

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

Tgt Ion:	180	Resp:	237730
Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.2
184	30.5	24.3	36.5
145	27.9	21.9	32.9

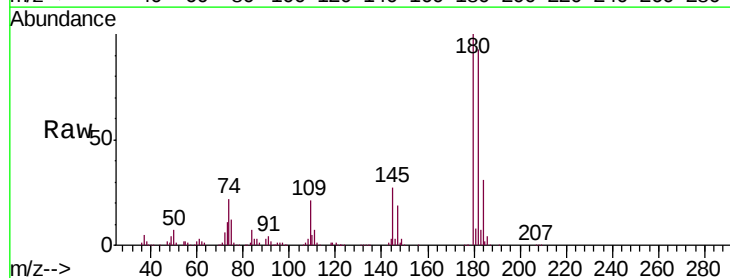


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

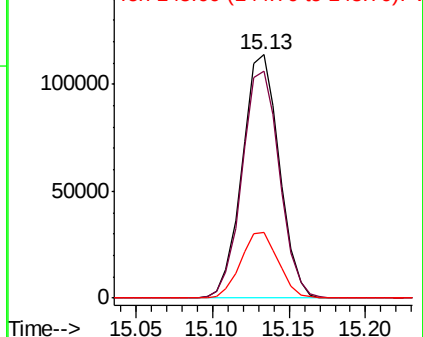
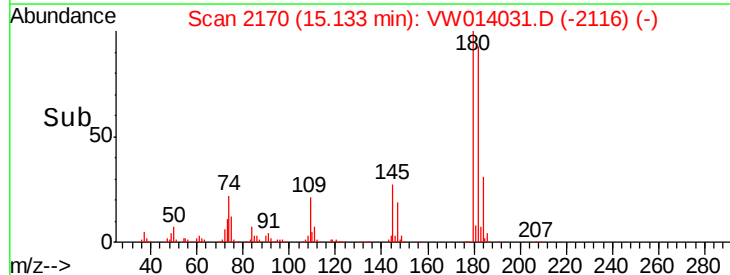


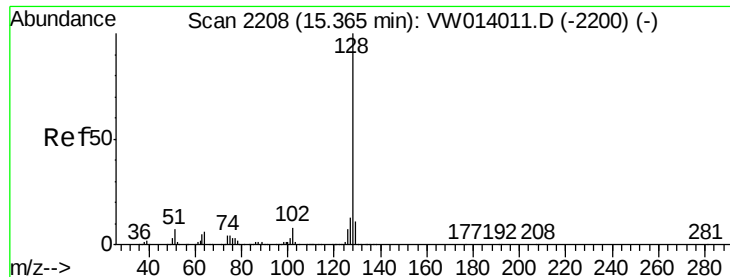
#68
 1,2,4-trichlorobenzene
 Concen: 26.020 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014031.D
 Acq: 14 Nov 2019 20:17

Tgt Ion:	180	Resp:	192259
Ion	Ratio	Lower	Upper
180	100		
182	94.1	75.8	113.8
145	27.4	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: 28.189 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

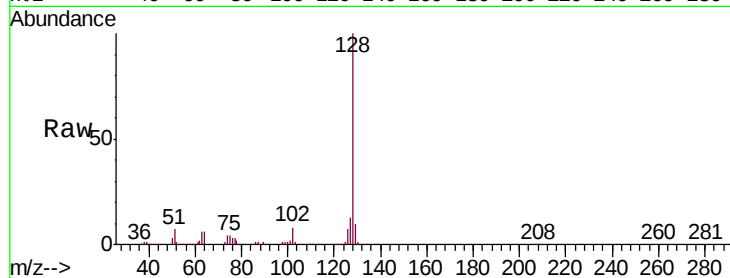
Tgt Ion:128 Resp: 370034

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

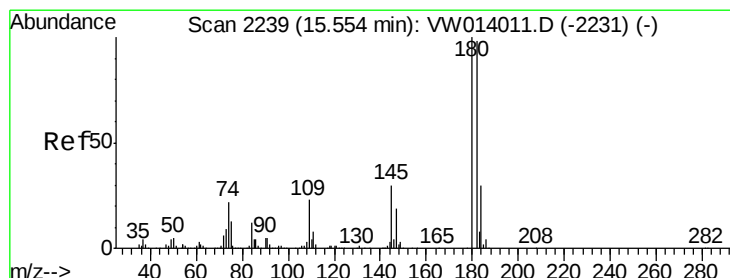
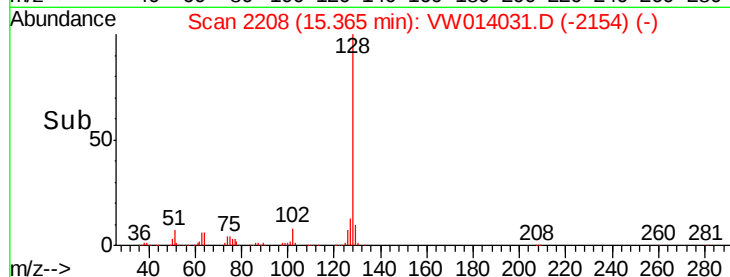
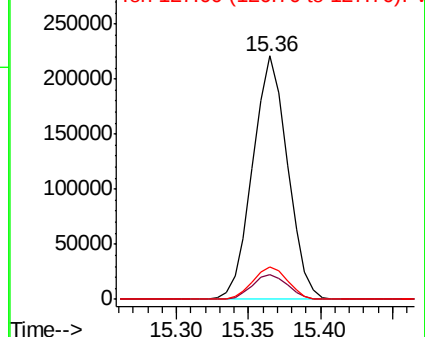
127 13.4 10.4 15.6



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: 26.951 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014031.D

Acq: 14 Nov 2019 20:17

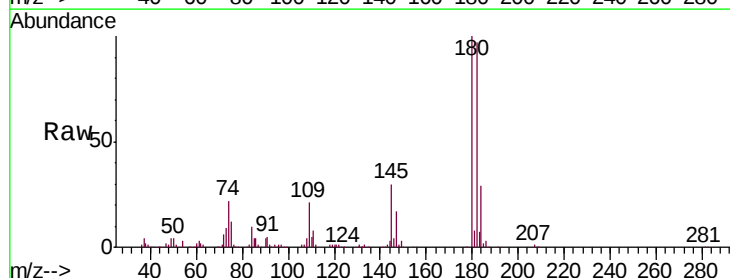
Tgt Ion:180 Resp: 175744

Ion Ratio Lower Upper

180 100

182 96.3 75.8 113.6

145 29.9 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

