

Data File : VW014403.D
Acq On : 17 Dec 2019 19:53
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

Quant Time: Dec 18 01:42:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 18 01:35:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1031118	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	947647	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	476496	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	316225	20.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	81.00%
7) Chloroethane-d5	2.89	69	281498	24.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.00%
10) 1,1-Dichloroethene-d2	4.03	63	646752	23.45	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	93.80%
20) 2-Butanone-d5	7.07	46	230647	56.69	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	113.38%
24) Chloroform-d	7.65	84	681899	25.97	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.88%
26) 1,2-Dichloroethane-d4	8.30	65	363597	26.42	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.68%
29) Benzene-d6	8.27	84	1368628	24.64	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.56%
33) 1,2-Dichloropropane-d6	9.27	67	433459	25.37	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.48%
37) Toluene-d8	10.32	98	1224812	24.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.56%
38) trans-1,3-Dichloropropene-	10.57	79	170469	23.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.12%
39) 2-Hexanone-d5	10.92	63	185125	54.49	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.98%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	366839	26.35	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.40%
61) 1,2-Dichlorobenzene-d4	13.85	152	443718	24.37	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.48%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	230939	23.548	ug/L	99
3) Chloromethane	2.21	50	240903	24.435	ug/L	98
5) Vinyl chloride	2.36	62	378607	25.936	ug/L	97
6) Bromomethane	2.78	94	221505	24.600	ug/L	100
8) Chloroethane	2.92	64	219611	26.333	ug/L	94
9) Trichlorofluoromethane	3.26	101	185448	25.662	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	358972	26.394	ug/L	92
12) 1,1-Dichloroethene	4.04	96	349883	25.410	ug/L	84
13) Acetone	4.12	43	186937	47.652	ug/L	95
14) Carbon disulfide	4.39	76	991651	23.482	ug/L	100
15) Methyl Acetate	4.67	43	177427	23.911	ug/L	98
16) Methylene chloride	4.92	84	388402	24.572	ug/L	92
17) Methyl tert-butyl Ether	5.42	73	445544	24.537	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	354355	24.031	ug/L	92
19) 1,1-Dichloroethane	6.21	63	671618	25.351	ug/L	99
21) 2-Butanone	7.17	43	249177	47.311	ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	384321	24.494	ug/L	96

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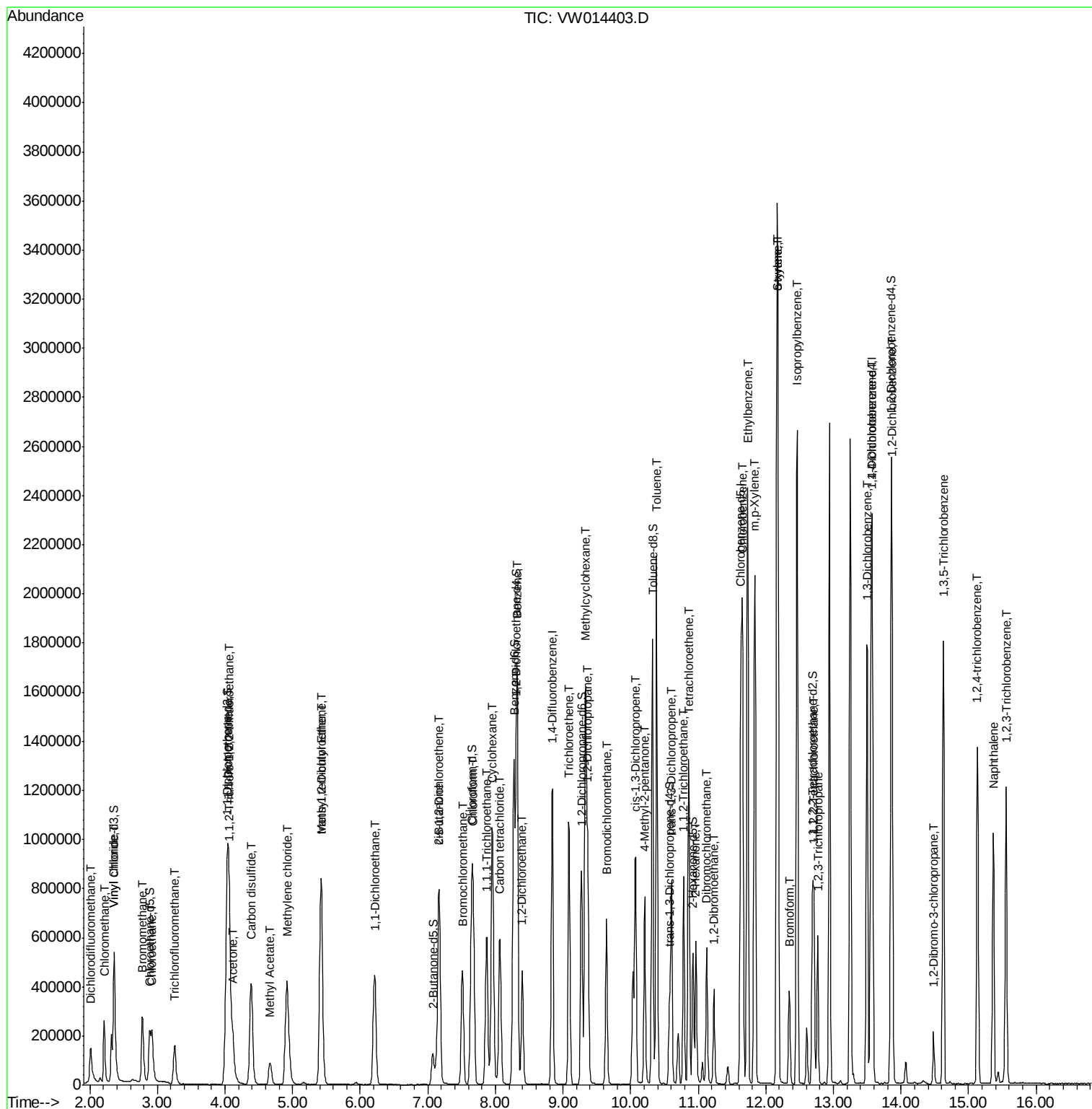
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	169541	23.491	ug/L #	82
25) Chloroform	7.67	83	649801	25.241	ug/L	99
27) 1,2-Dichloroethane	8.40	62	417348	24.757	ug/L	98
30) Cyclohexane	7.96	56	622418	26.314	ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	500667	26.307	ug/L	97
32) Carbon tetrachloride	8.07	117	466227	25.818	ug/L	99
34) Benzene	8.32	78	1507353	25.121	ug/L	100
35) Trichloroethene	9.09	95	379306	24.707	ug/L	94
36) Methylcyclohexane	9.34	83	666301	25.828	ug/L	96
40) 1,2-Dichloropropane	9.37	63	380719	24.698	ug/L	100
41) Bromodichloromethane	9.64	83	459460	24.526	ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	567820	24.597	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	508955	50.070	ug/L	98
44) Toluene	10.38	91	1587726	25.240	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	456873	24.449	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	272381	23.580	ug/L	97
47) Tetrachloroethene	10.86	164	312294	24.406	ug/L	97
49) 2-Hexanone	10.96	43	360382	49.798	ug/L	98
50) Dibromochloromethane	11.13	129	303242	23.390	ug/L	98
51) 1,2-Dibromoethane	11.23	107	258424	23.619	ug/L	97
52) Chlorobenzene	11.65	112	991935	24.398	ug/L	94
53) Ethylbenzene	11.73	91	1769623	25.925	ug/L	97
54) m,p-Xylene	11.84	106	678120	25.826	ug/L	98
55) o-xylene	12.16	106	642254	25.788	ug/L	98
56) Styrene	12.18	104	1112010	26.100	ug/L	97
57) Isopropylbenzene	12.46	105	1718623	26.581	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	343742	23.976	ug/L	100
59) 1,2,3-Trichloropropane	12.77	75	255488	23.982	ug/L	100
62) Bromoform	12.35	173	180372	22.303	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	788014	24.605	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	782720	24.055	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	713804	23.967	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.48	75	53933	23.474	ug/L	82
67) 1,3,5-Trichlorobenzene	14.63	180	594885	25.817	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	464343	25.850	ug/L	98
69) Naphthalene	15.36	128	868545	25.711	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	439381	26.083	ug/L	99

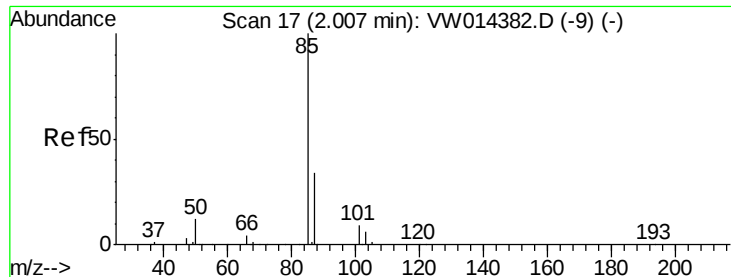
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.548 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

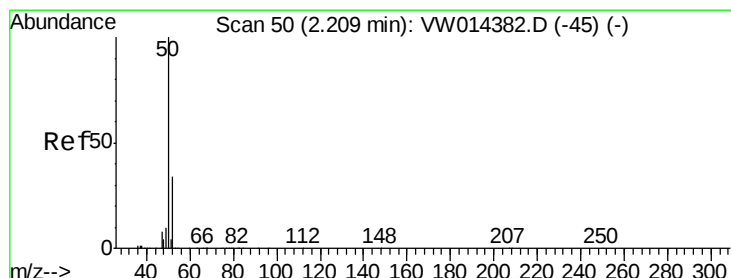
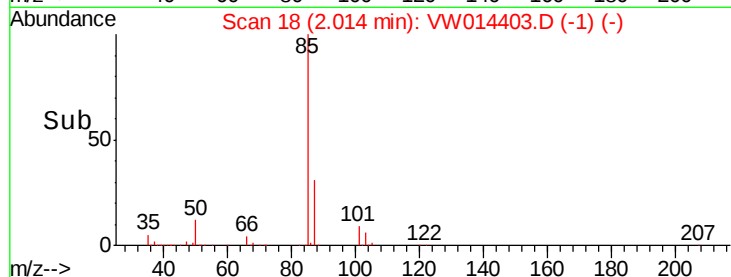
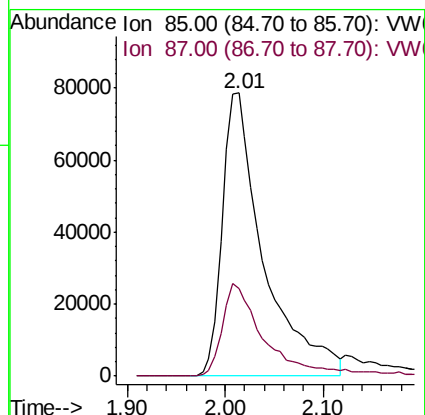
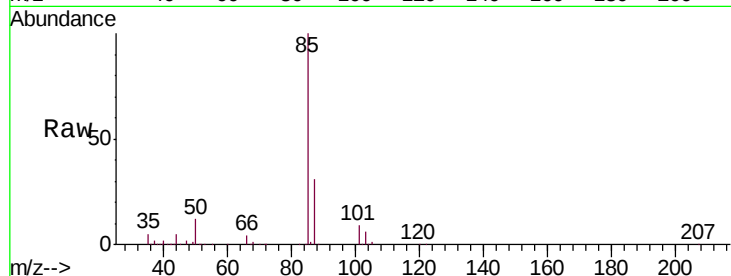
VSTD02523

Tgt Ion: 85 Resp: 230939

Ion Ratio Lower Upper

85 100

87 32.1 22.1 41.1



#3

Chloromethane

Concen: 24.435 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW014403.D

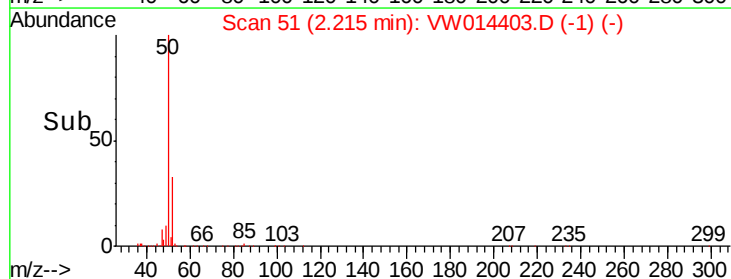
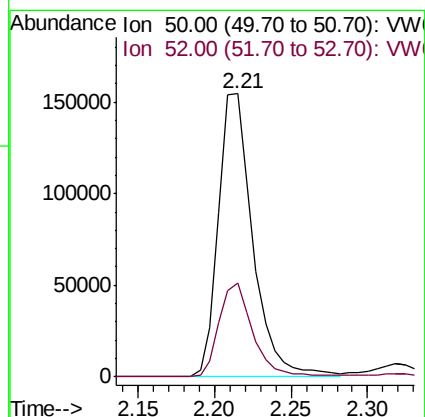
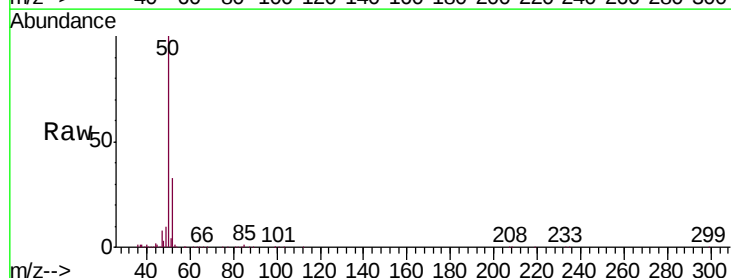
Acq: 17 Dec 2019 19:53

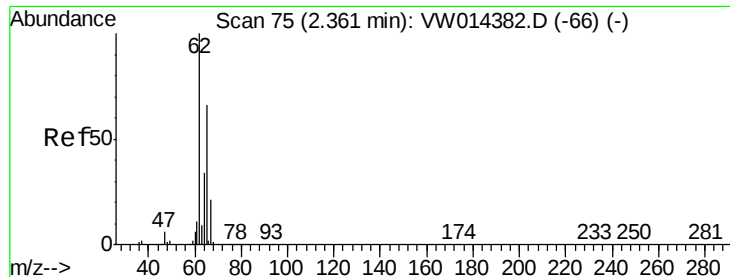
Tgt Ion: 50 Resp: 240903

Ion Ratio Lower Upper

50 100

52 33.0 23.8 44.2





#5

Vinyl chloride

Concen: 25.936 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

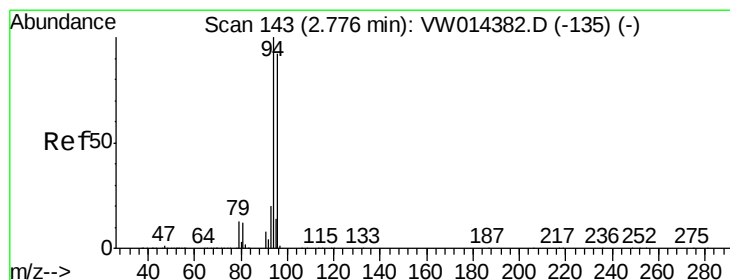
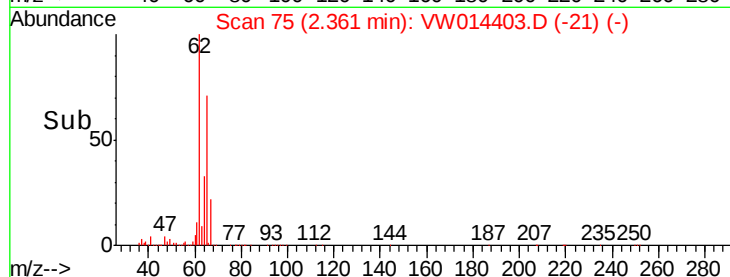
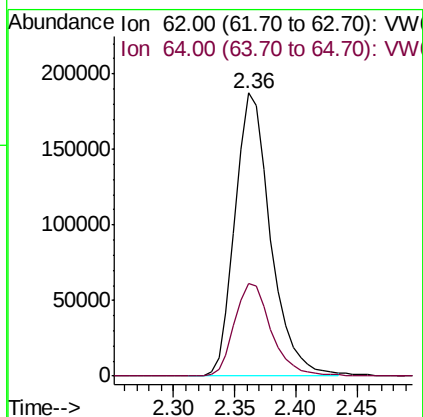
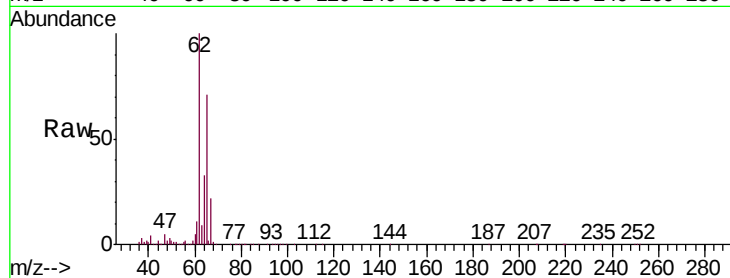
VSTD02523

Tgt Ion: 62 Resp: 378607

Ion Ratio Lower Upper

62 100

64 32.5 21.8 40.4



#6

Bromomethane

Concen: 24.600 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014403.D

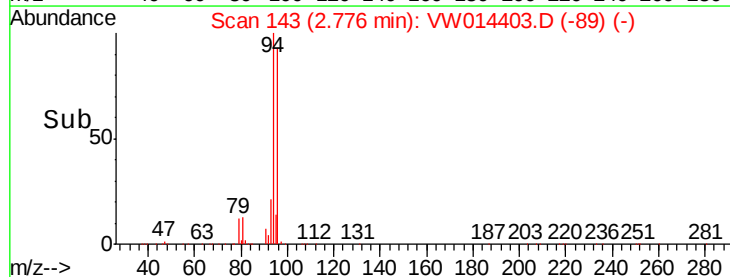
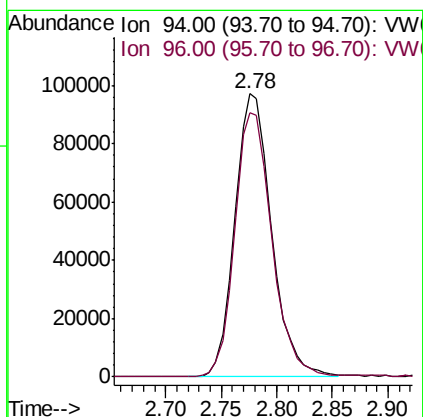
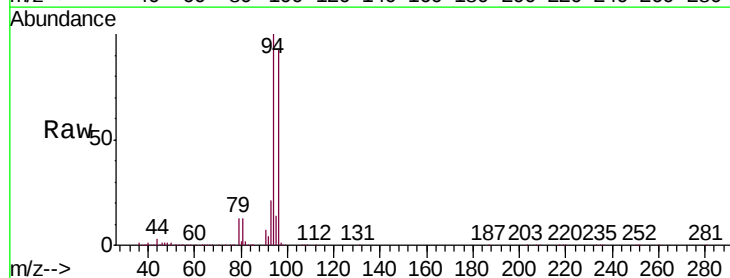
Acq: 17 Dec 2019 19:53

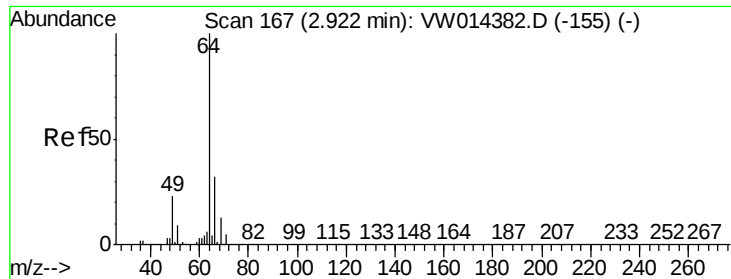
Tgt Ion: 94 Resp: 221505

Ion Ratio Lower Upper

94 100

96 94.2 9.4 178.8

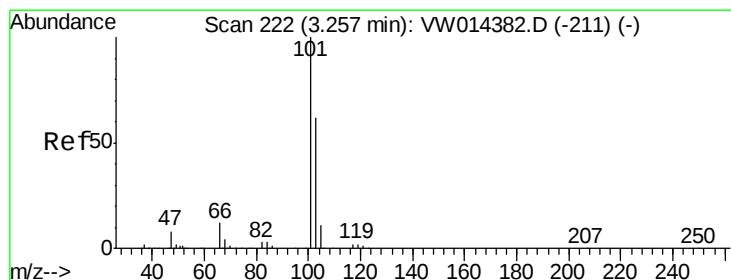
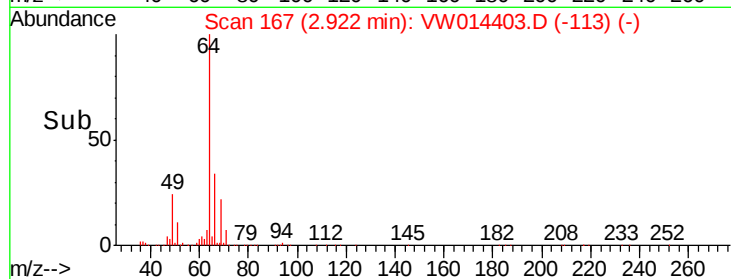
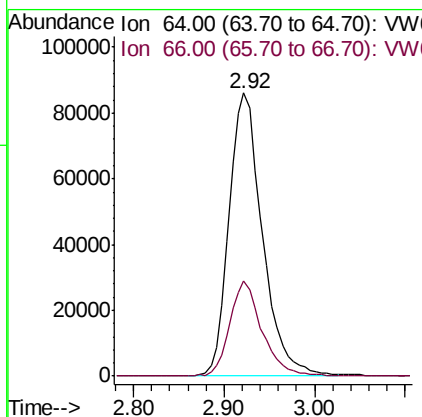
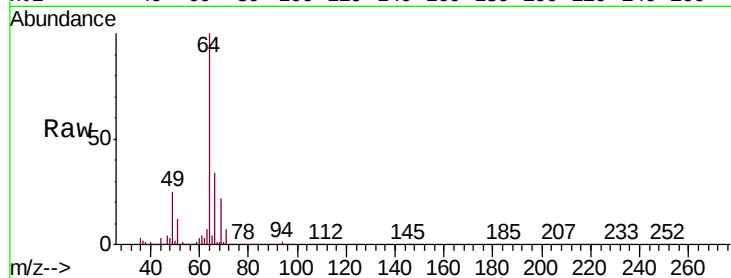




#8
Chloroethane
Concen: 26.333 ug/L
RT: 2.92 min Scan# 167
Delta R.T. 0.00 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

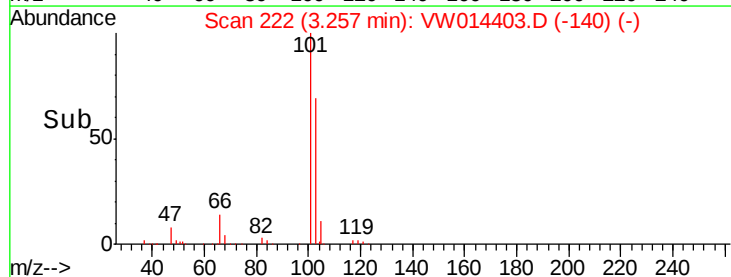
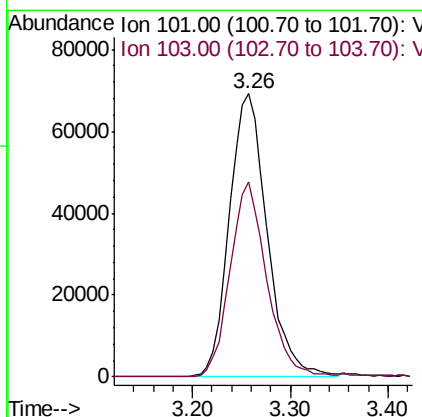
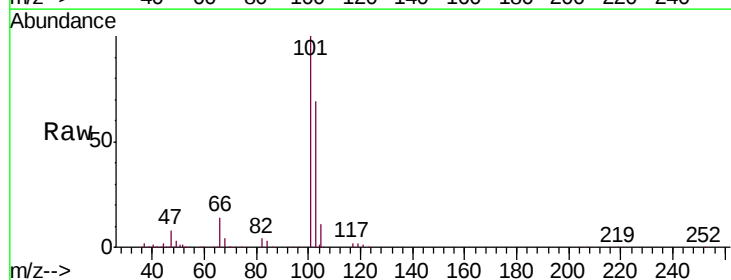
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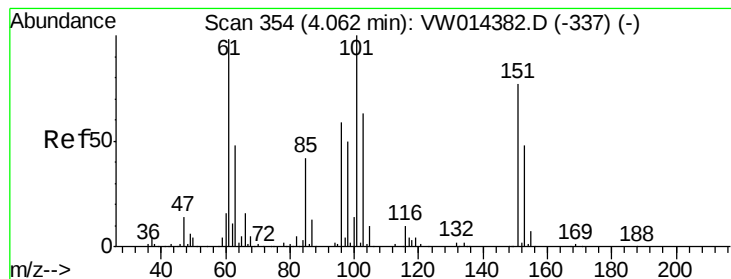
Tgt Ion: 64 Resp: 219611
Ion Ratio Lower Upper
64 100
66 33.6 21.2 39.4



#9
Trichlorofluoromethane
Concen: 25.662 ug/L
RT: 3.26 min Scan# 222
Delta R.T. 0.00 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

Tgt Ion: 101 Resp: 185448
Ion Ratio Lower Upper
101 100
103 66.6 45.4 84.2





#11

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

Concen: 26.394 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

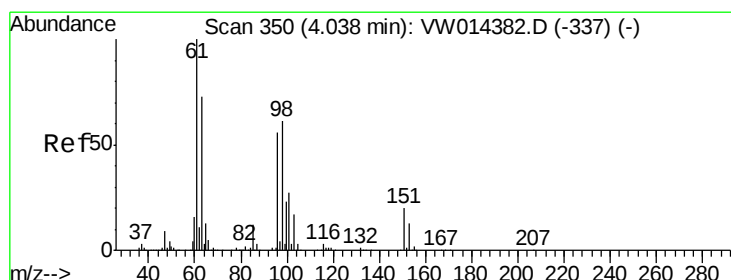
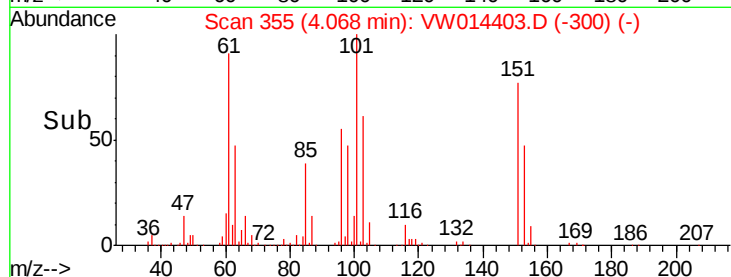
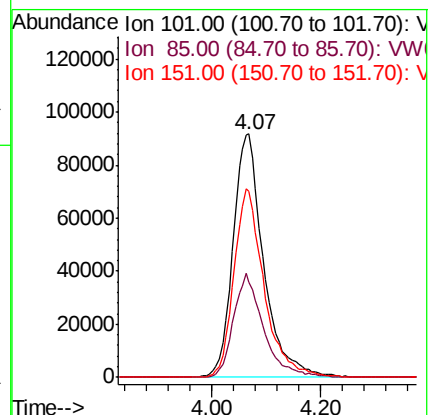
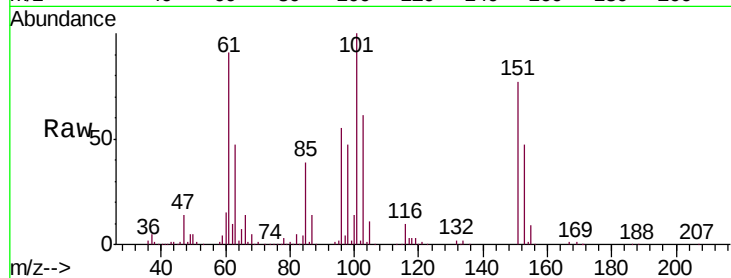
Tgt Ion:101 Resp: 358972

Ion Ratio Lower Upper

101 100

85 41.9 31.4 47.2

151 75.1 66.9 100.3



#12

1,1-Dichloroethene

Concen: 25.410 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

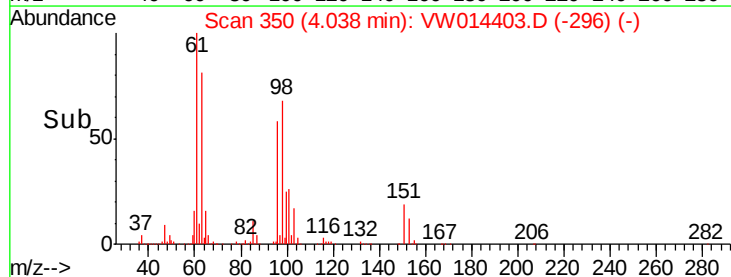
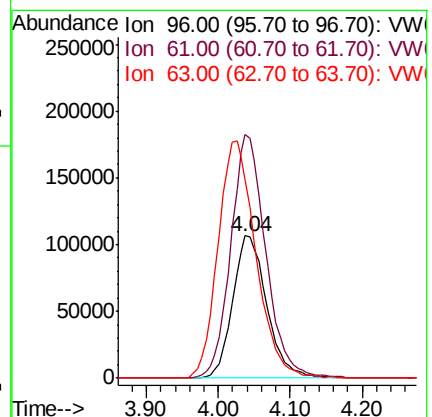
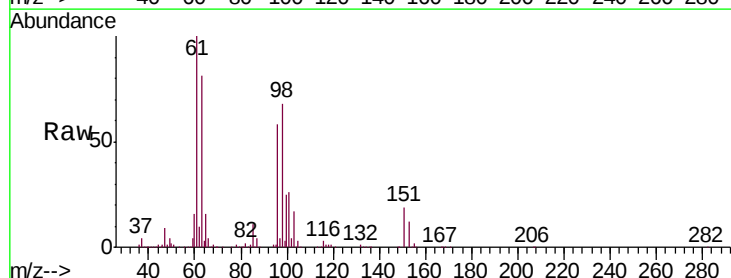
Tgt Ion: 96 Resp: 349883

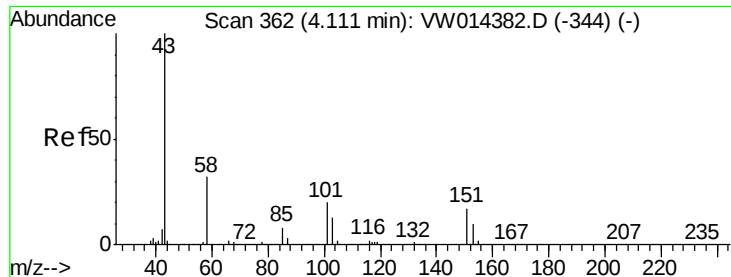
Ion Ratio Lower Upper

96 100

61 171.4 109.8 204.0

63 139.7 80.7 149.9





#13

Acetone

Concen: 47.652 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.01 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

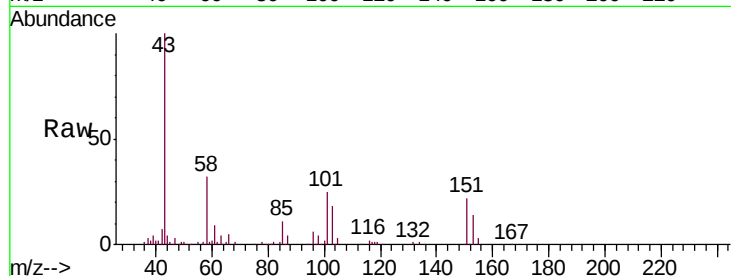
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Tgt Ion: 43 Resp: 186937

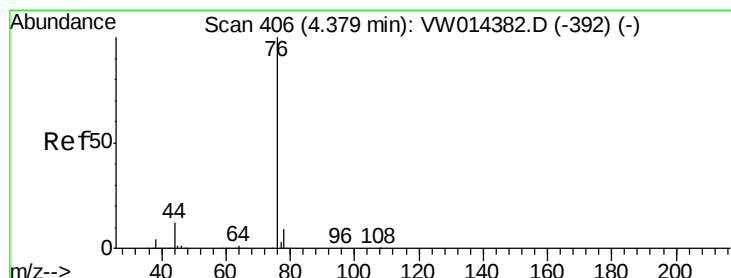
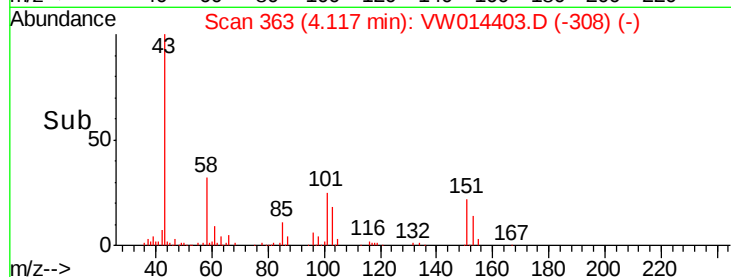
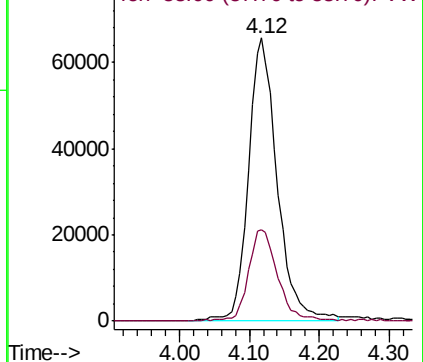
Ion Ratio Lower Upper

43 100 0.0 65.4

58 30.0 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: 23.482 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014403.D

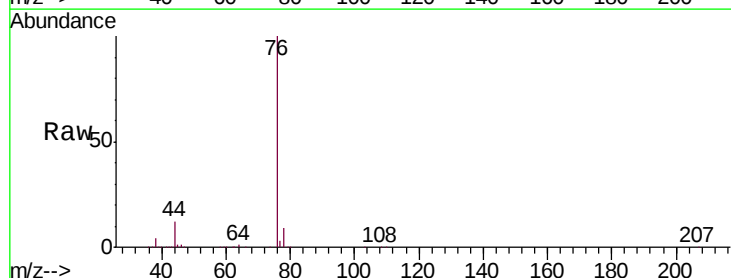
Acq: 17 Dec 2019 19:53

Tgt Ion: 76 Resp: 991651

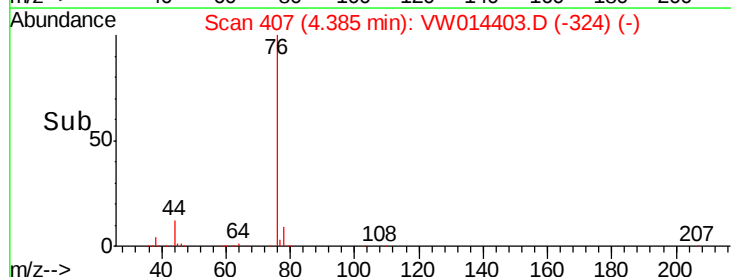
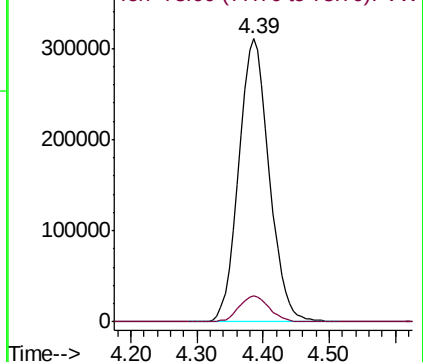
Ion Ratio Lower Upper

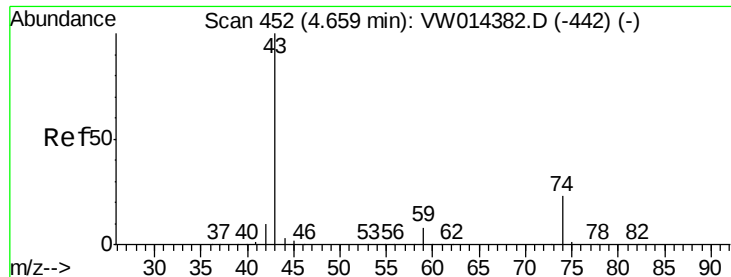
76 100 7.2 10.8

78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW
Ion 78.00 (77.70 to 78.70): VW

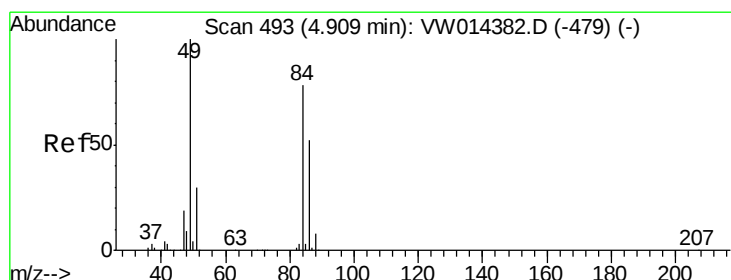
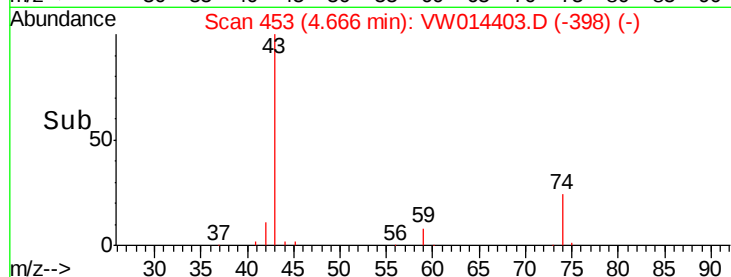
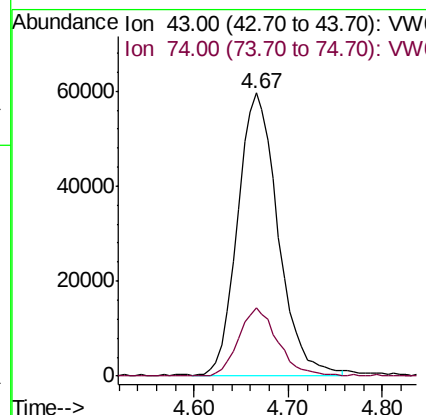
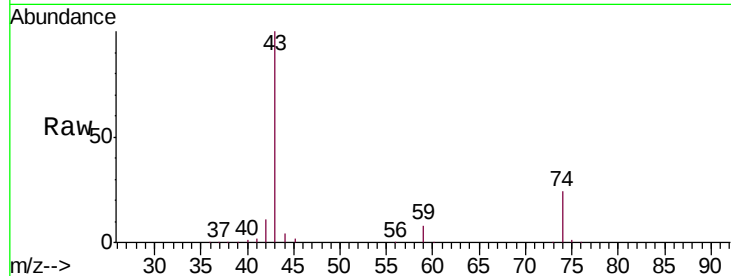




#15
Methyl Acetate
Concen: 23.911 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

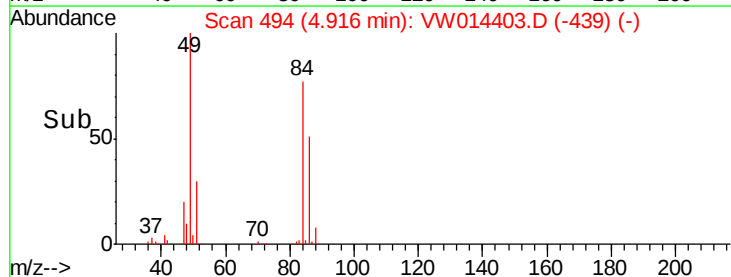
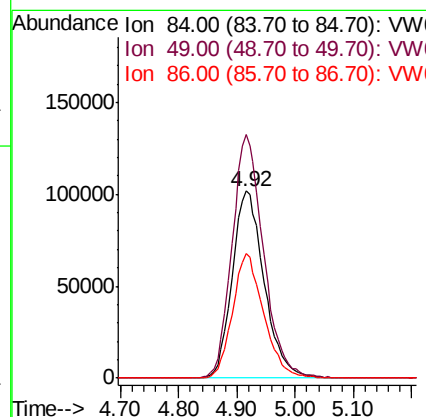
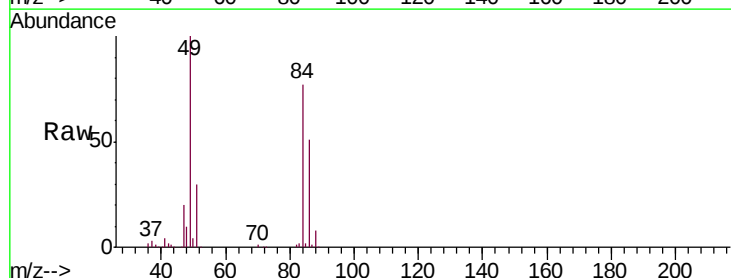
Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

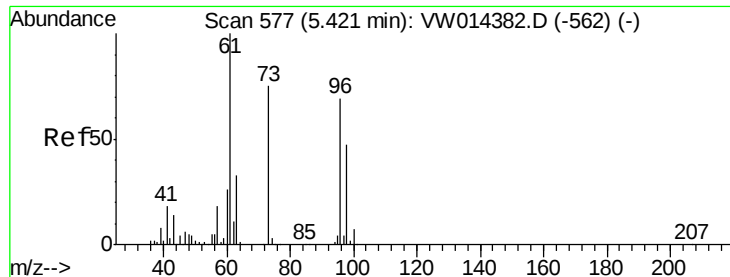
Tgt Ion: 43 Resp: 177427
Ion Ratio Lower Upper
43 100
74 23.2 19.3 28.9



#16
Methylene chloride
Concen: 24.572 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

Tgt Ion: 84 Resp: 388402
Ion Ratio Lower Upper
84 100
49 130.4 84.2 156.4
86 66.4 43.7 81.1

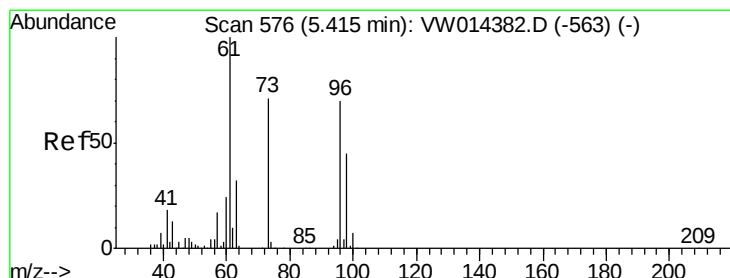
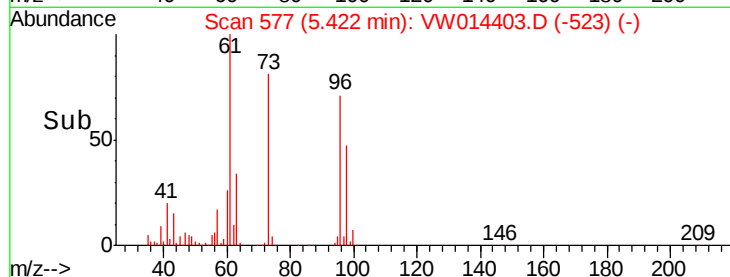
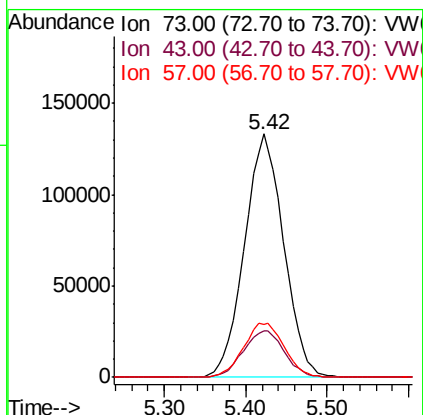
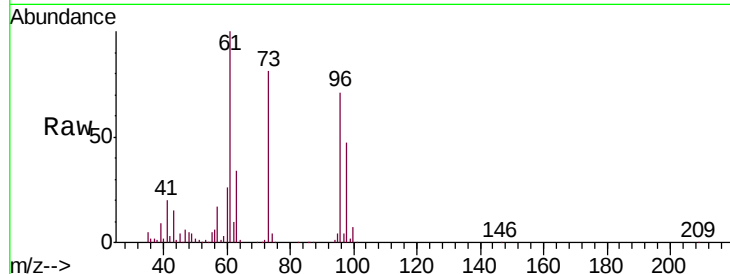




#17
Methyl tert-butyl Ether
Concen: 24.537 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

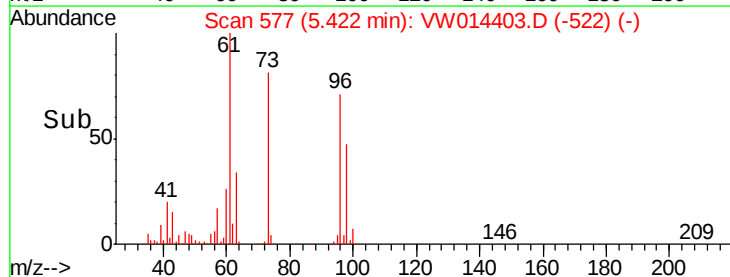
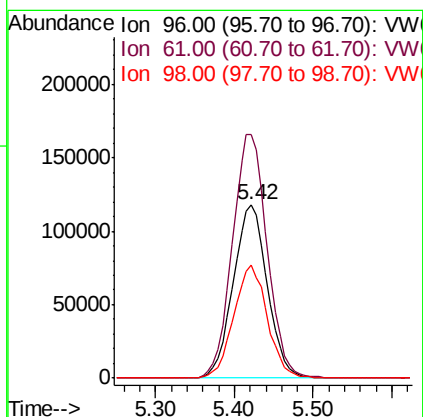
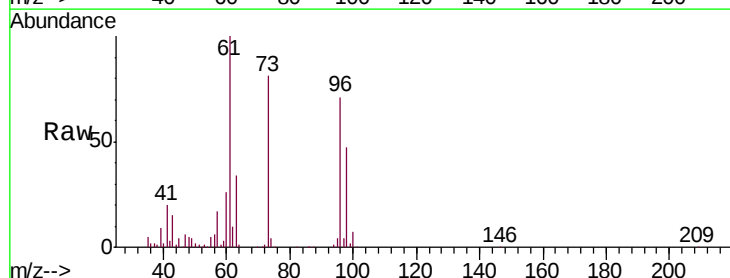
Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

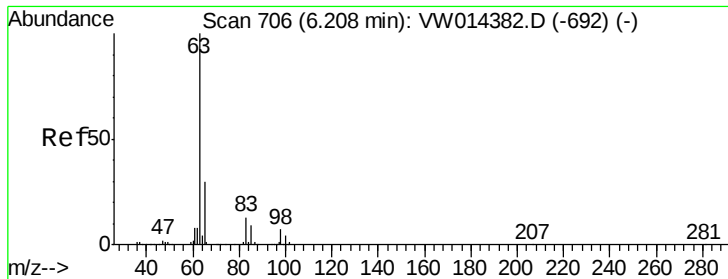
Tgt Ion: 73 Resp: 445544
Ion Ratio Lower Upper
73 100
43 19.8 15.5 23.3
57 23.1 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 24.031 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

Tgt Ion: 96 Resp: 354355
Ion Ratio Lower Upper
96 100
61 140.3 90.6 168.2
98 65.5 42.9 79.7

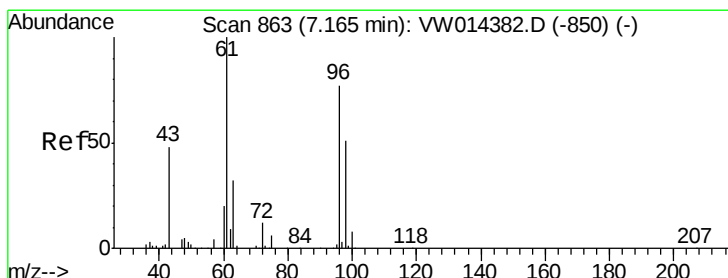
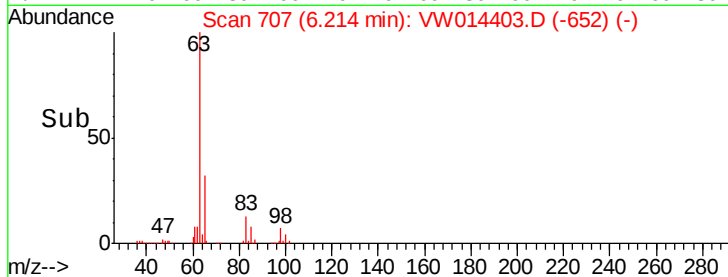
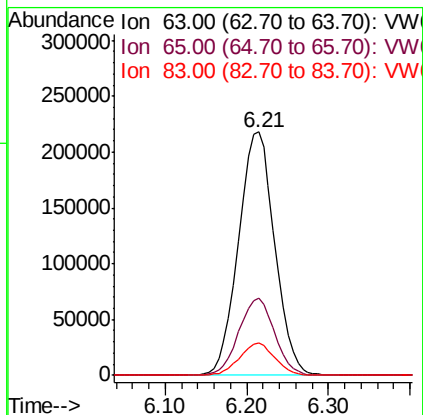
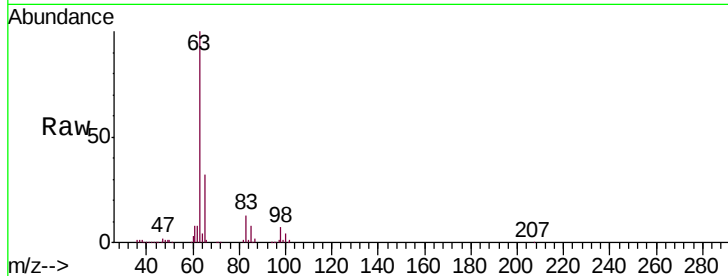




#19
 1,1-Dichloroethane
 Concen: 25.351 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VW014403.D
 Acq: 17 Dec 2019 19:53

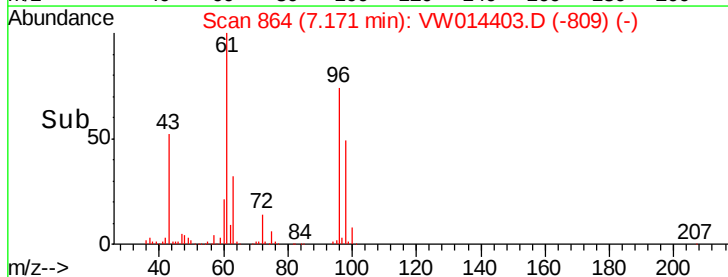
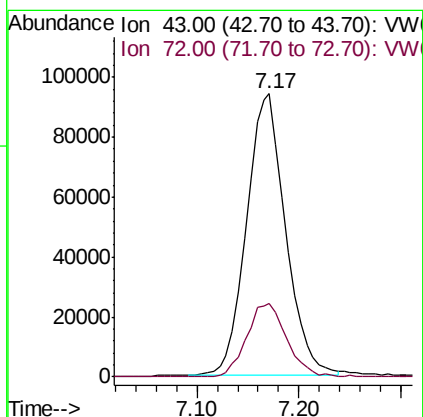
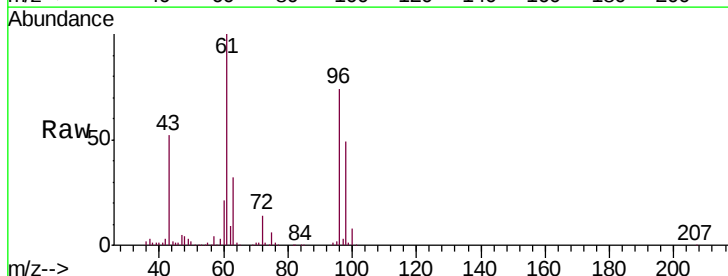
Instrument :
 MSVOA_W
 ClientSampleID :
 VSTD02523

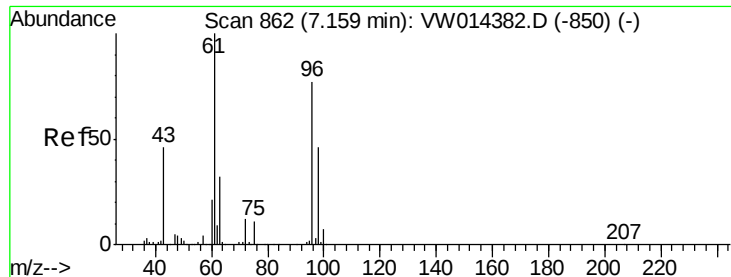
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.8	22.1	41.1
83	13.3	9.0	16.6



#21
 2-Butanone
 Concen: 47.311 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW014403.D
 Acq: 17 Dec 2019 19:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.5	14.1	42.2



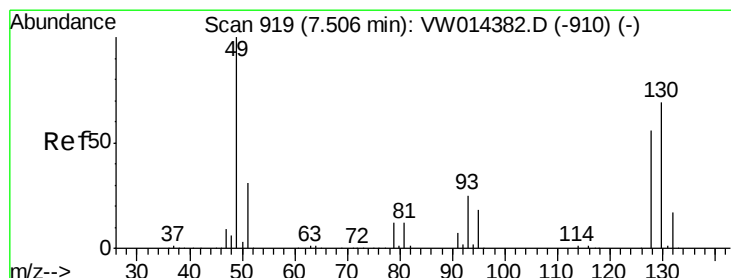
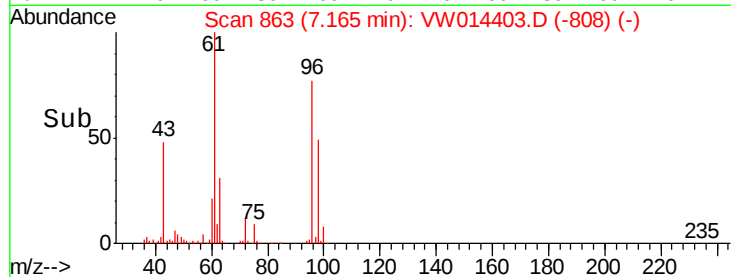
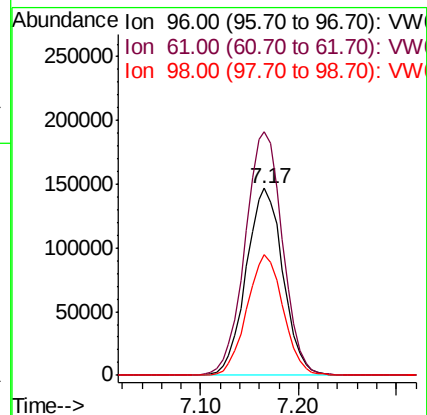
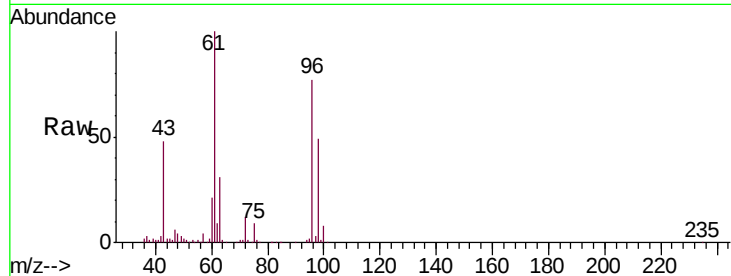


#22

cis-1,2-Dichloroethene
Concen: 24.494 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

Instrument :
MSVOA_W
ClientSampled :
VSTD02523

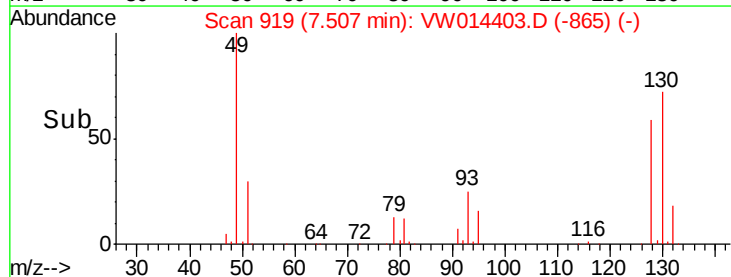
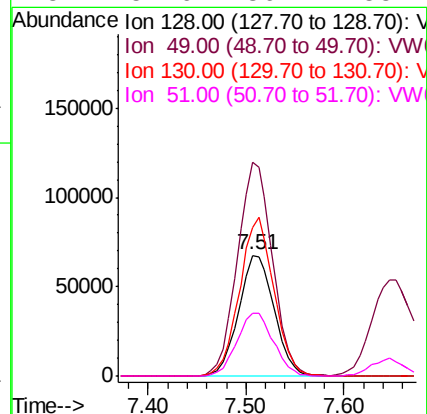
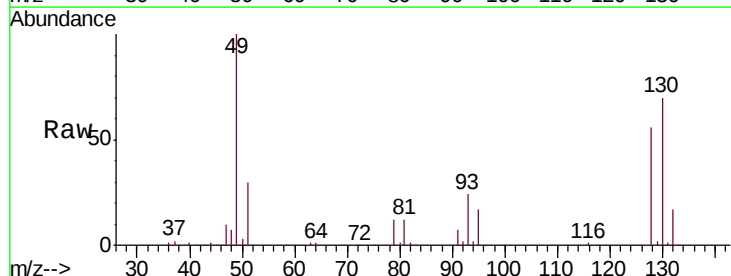
Tgt Ion: 96 Resp: 384321
Ion Ratio Lower Upper
96 100
61 130.3 86.9 161.5
98 64.4 45.5 84.5

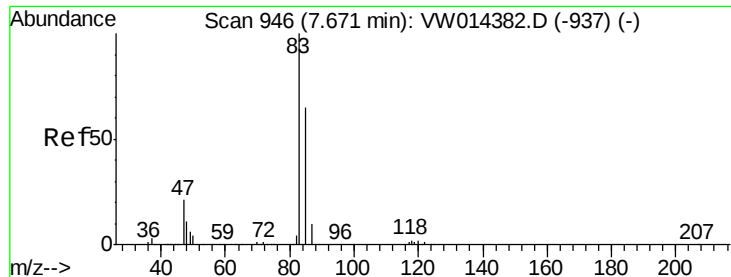


#23

Bromochloromethane
Concen: 23.491 ug/L
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

Tgt Ion: 128 Resp: 169541
Ion Ratio Lower Upper
128 100
49 177.1 95.1 176.5#
130 123.4 85.0 158.0
51 52.6 36.7 55.1

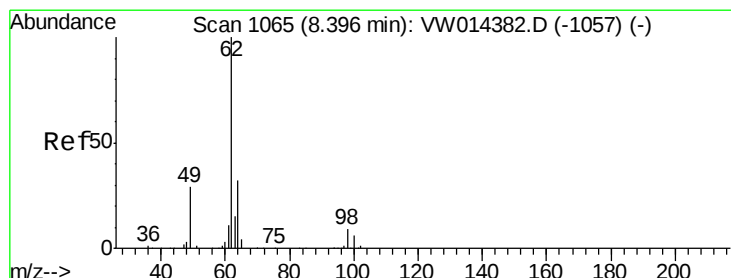
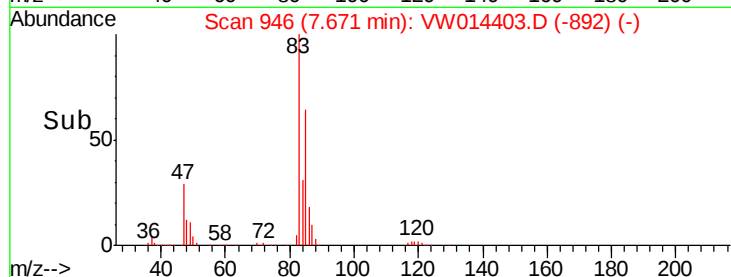
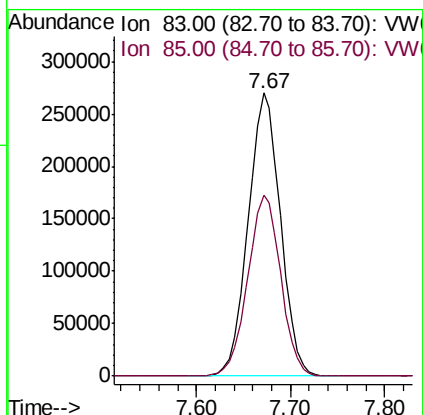
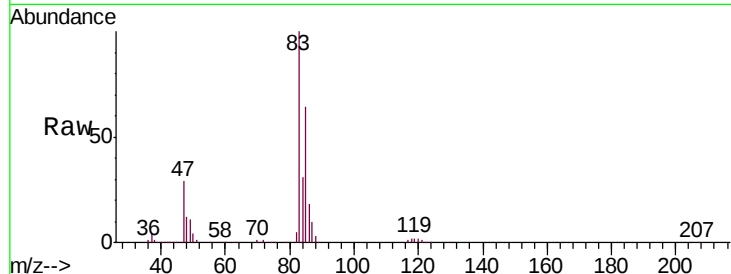




#25
Chloroform
Concen: 25.241 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

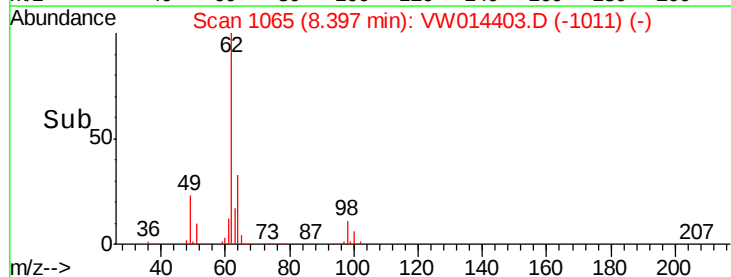
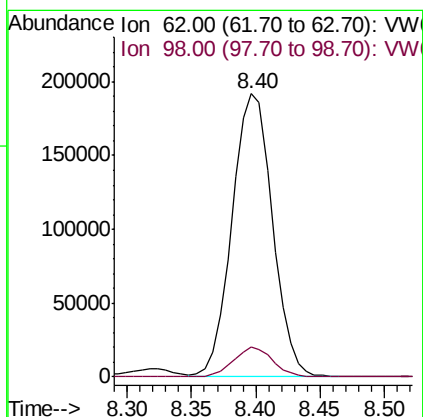
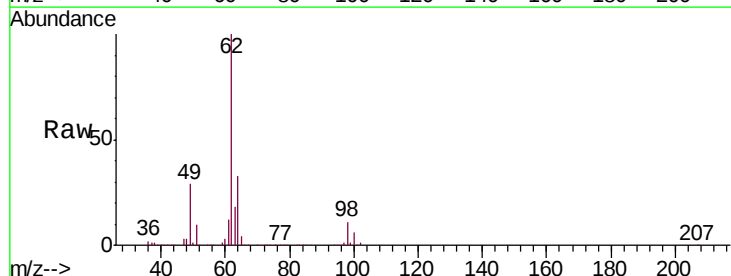
Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

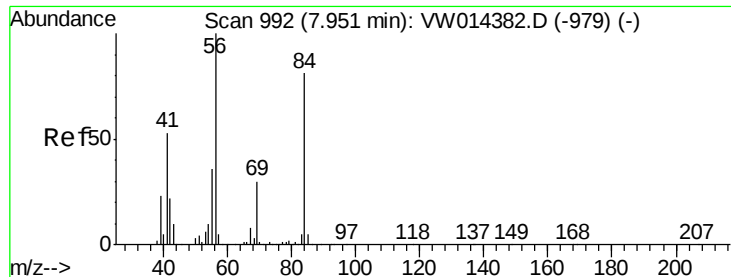
Tgt Ion: 83 Resp: 649801
Ion Ratio Lower Upper
83 100
85 65.4 46.1 85.7



#27
1,2-Dichloroethane
Concen: 24.757 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

Tgt Ion: 62 Resp: 417348
Ion Ratio Lower Upper
62 100
98 10.7 9.3 13.9

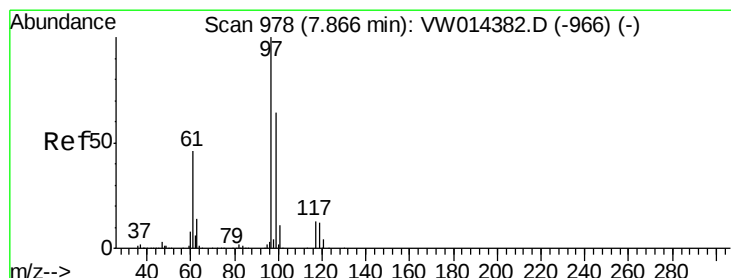
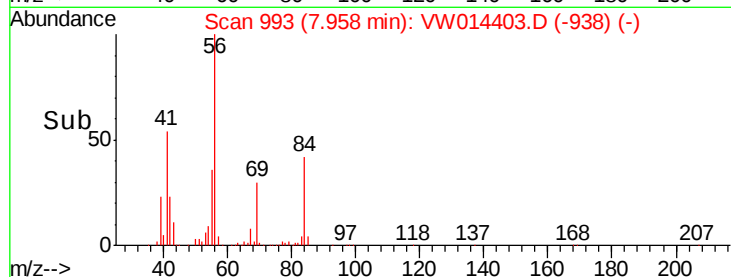
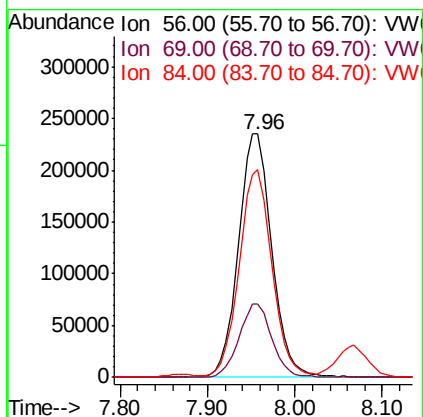
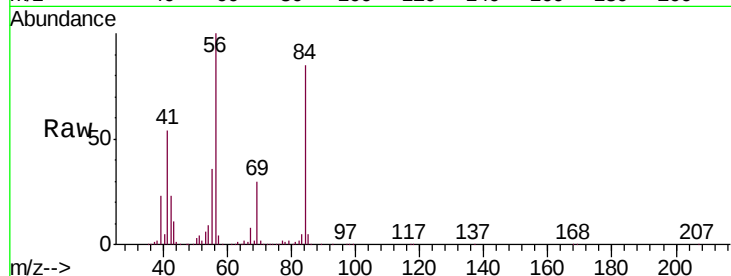




#30
Cyclohexane
Concen: 26.314 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

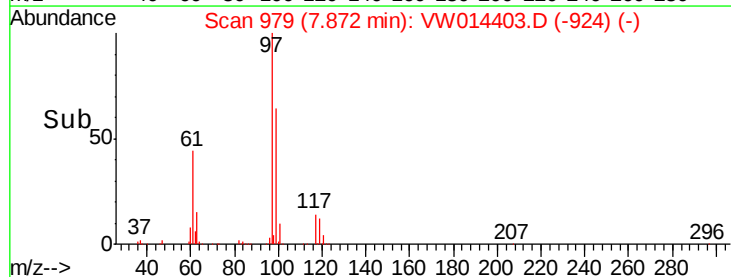
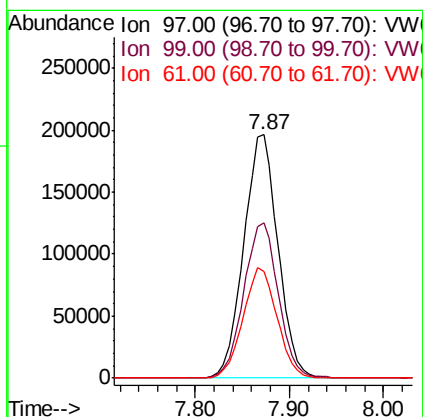
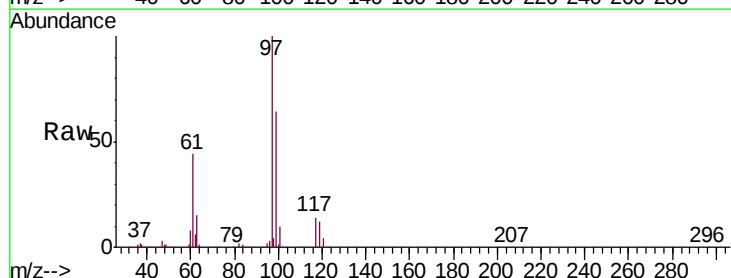
Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

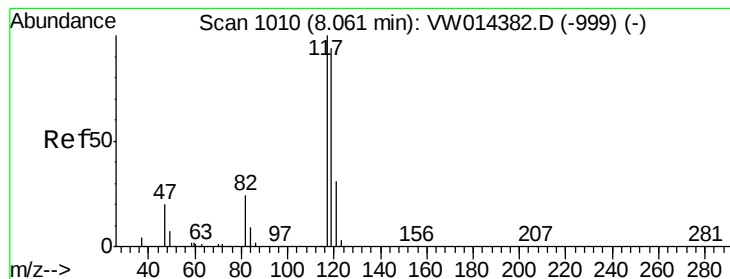
Tgt Ion: 56 Resp: 622418
Ion Ratio Lower Upper
56 100
69 29.9 24.6 37.0
84 84.1 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 26.307 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW014403.D
Acq: 17 Dec 2019 19:53

Tgt Ion: 97 Resp: 500667
Ion Ratio Lower Upper
97 100
99 64.2 51.1 76.7
61 45.1 32.8 49.2





#32

Carbon tetrachloride

Concen: 25.818 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

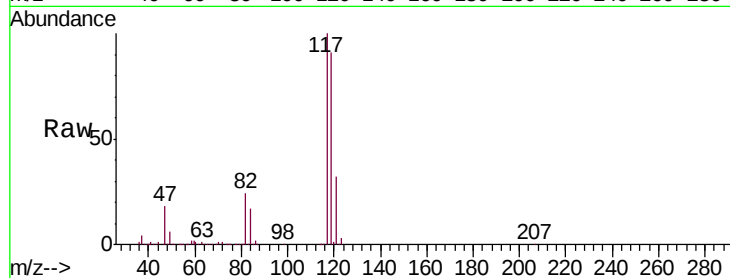
VSTD02523

Tgt Ion:117 Resp: 466227

Ion Ratio Lower Upper

117 100

119 95.1 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

200000

150000

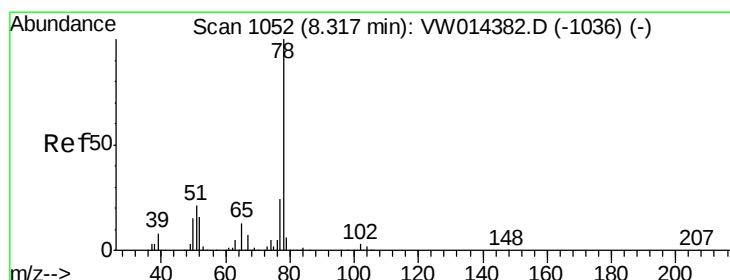
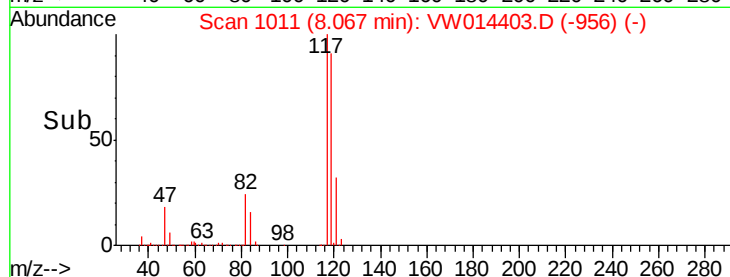
100000

50000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 25.121 ug/L

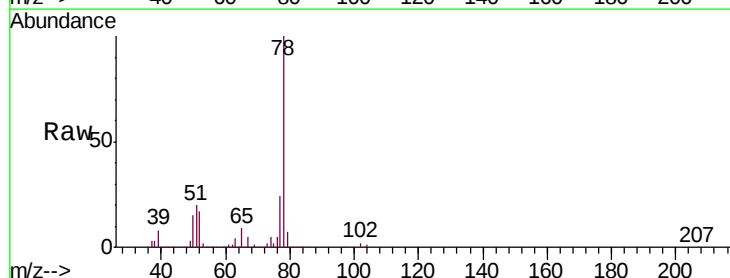
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Tgt Ion: 78 Resp: 1507353



Abundance Ion 78.00 (77.70 to 78.70): VW

800000

600000

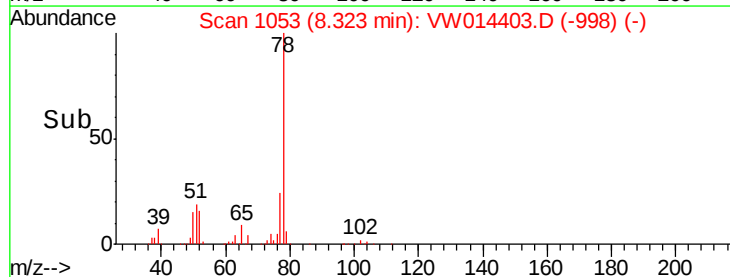
400000

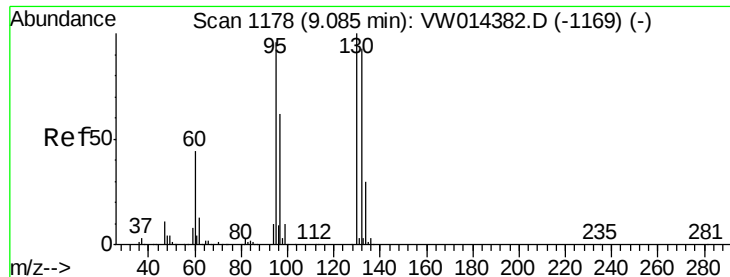
200000

0

8.20 8.30 8.40

Time-->





#35

Trichloroethene

Concen: 24.707 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

Tgt Ion: 95 Resp: 379306

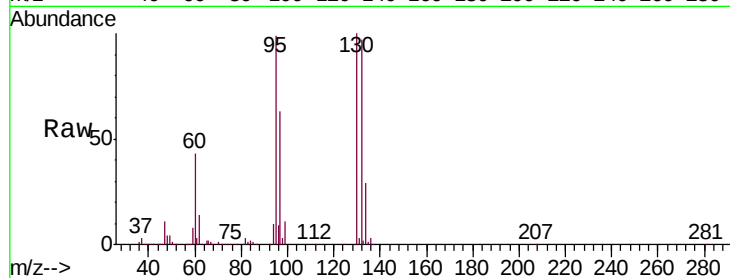
Ion Ratio Lower Upper

95 100

97 63.8 45.1 83.9

132 98.0 73.7 136.9

130 101.9 76.6 142.2



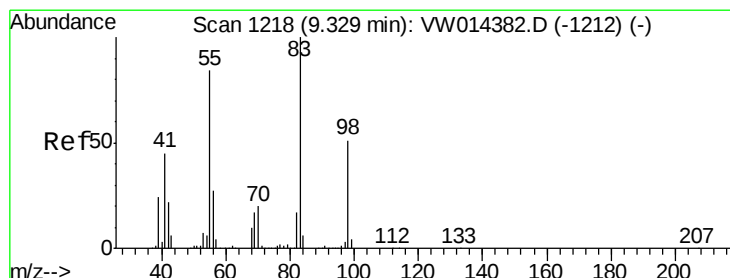
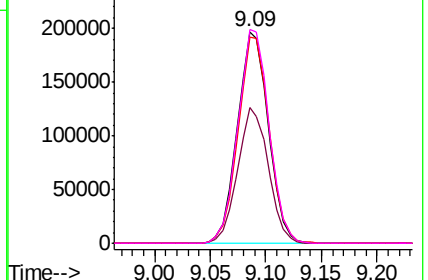
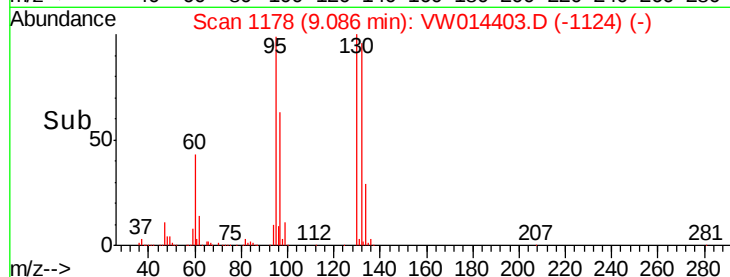
Abundance

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): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 25.828 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

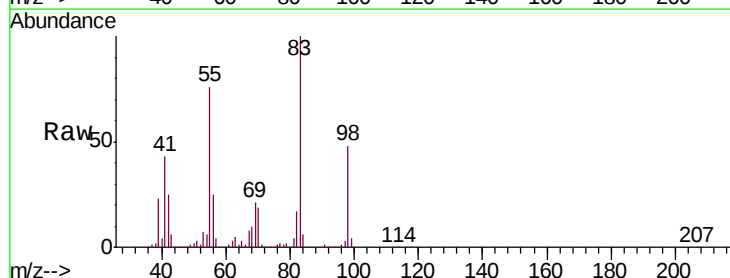
Tgt Ion: 83 Resp: 666301

Ion Ratio Lower Upper

83 100

55 79.2 59.8 89.8

98 48.4 39.5 59.3

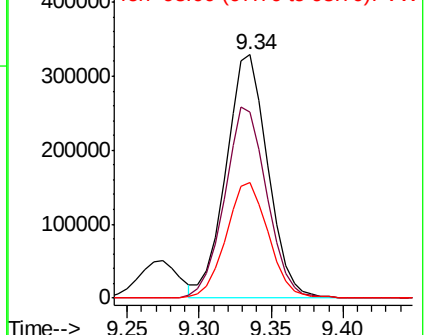
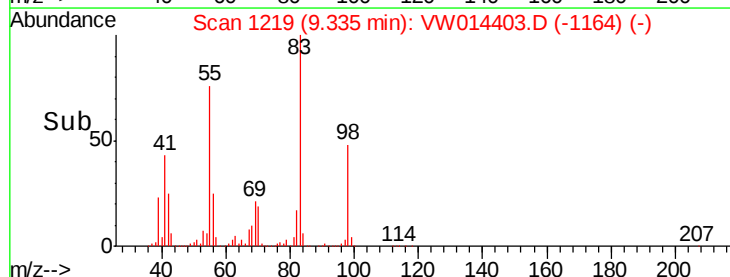


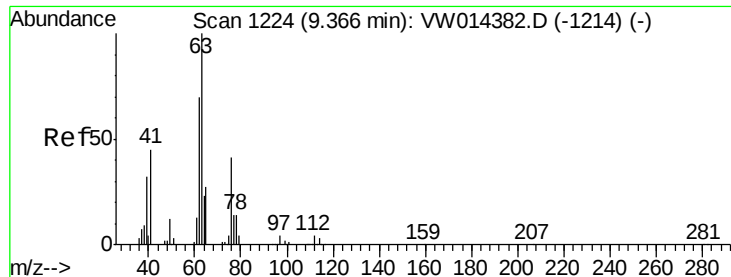
Abundance

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

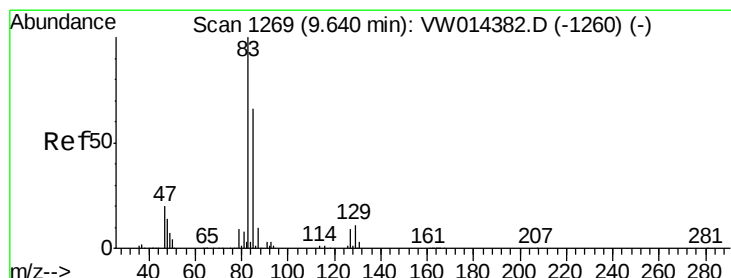
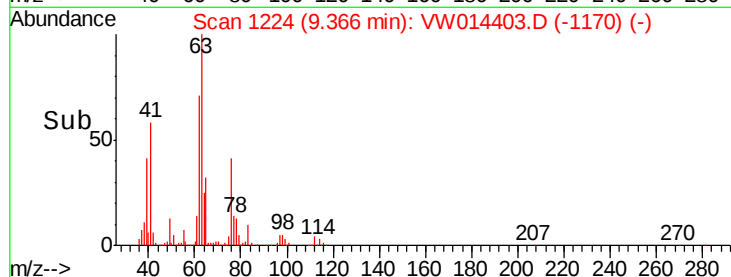
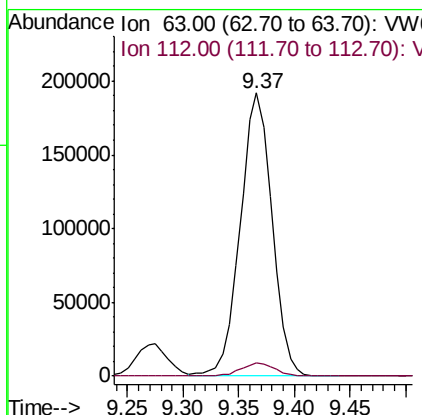
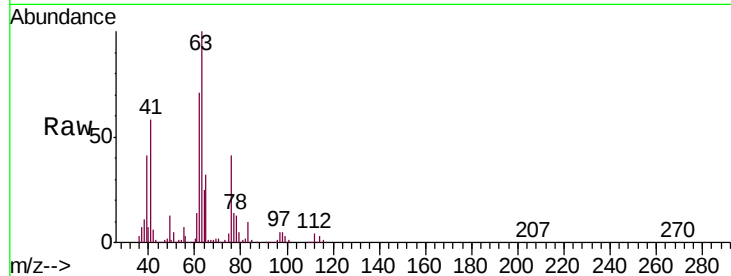




#40
 1,2-Dichloropropane
 Concen: 24.698 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014403.D
 Acq: 17 Dec 2019 19:53

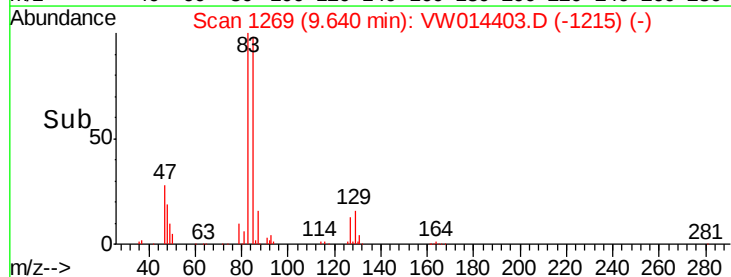
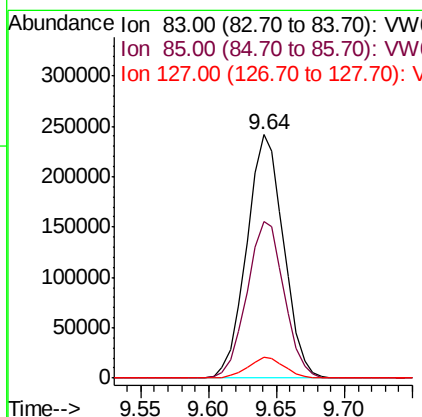
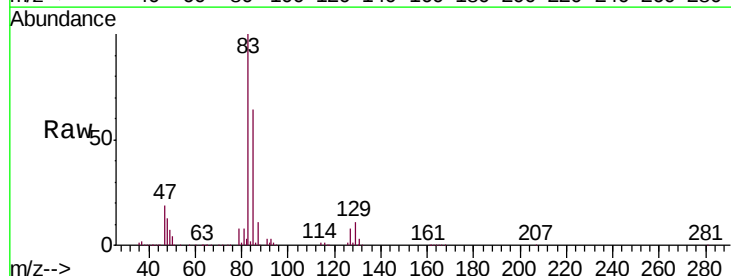
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02523

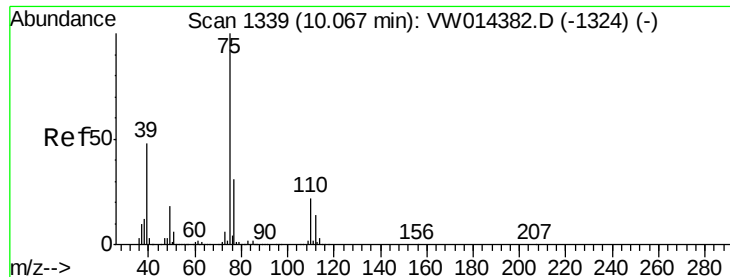
Tgt Ion: 63 Resp: 380719
 Ion Ratio Lower Upper
 63 100
 112 4.9 3.9 5.9



#41
 Bromodichloromethane
 Concen: 24.526 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW014403.D
 Acq: 17 Dec 2019 19:53

Tgt Ion: 83 Resp: 459460
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.1 83.7
 127 8.5 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 24.597 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

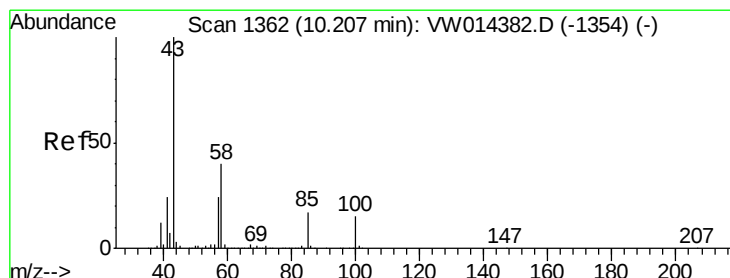
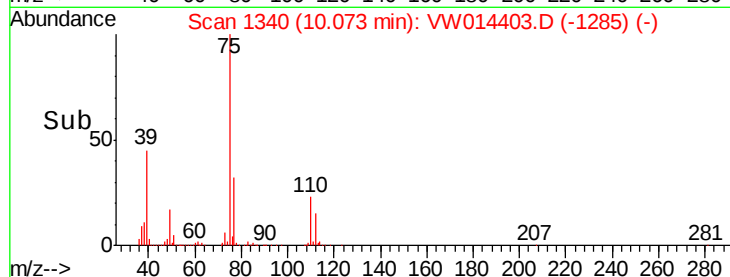
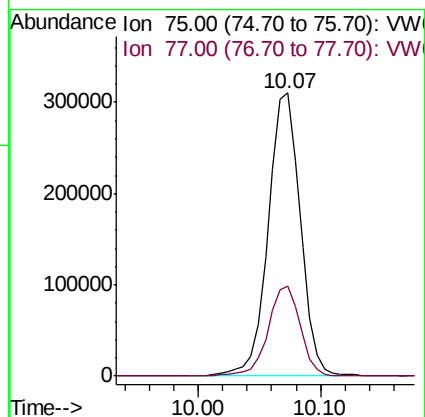
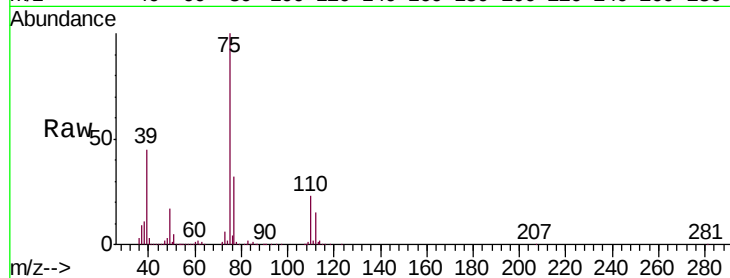
VSTD02523

Tgt Ion: 75 Resp: 567820

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 50.070 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

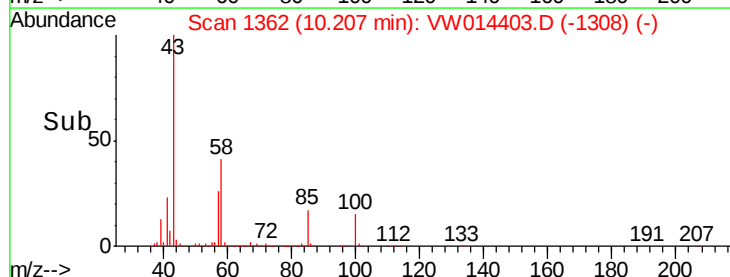
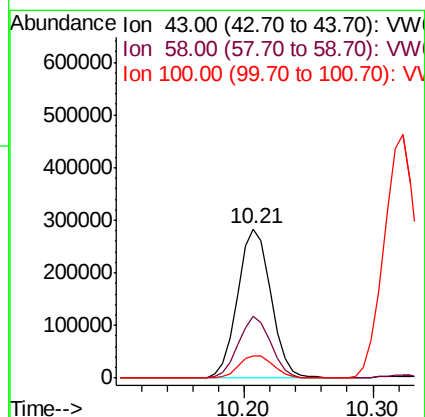
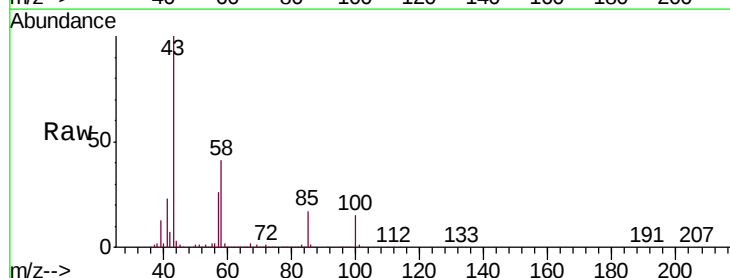
Tgt Ion: 43 Resp: 508955

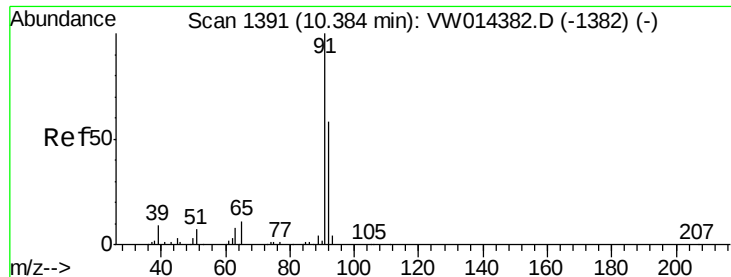
Ion Ratio Lower Upper

43 100

58 40.0 32.6 49.0

100 15.5 13.8 20.8





#44

Toluene

Concen: 25.240 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampled :

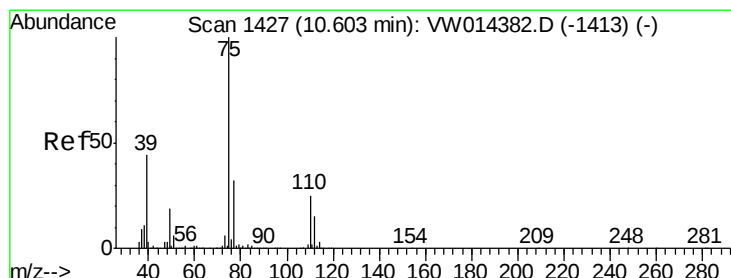
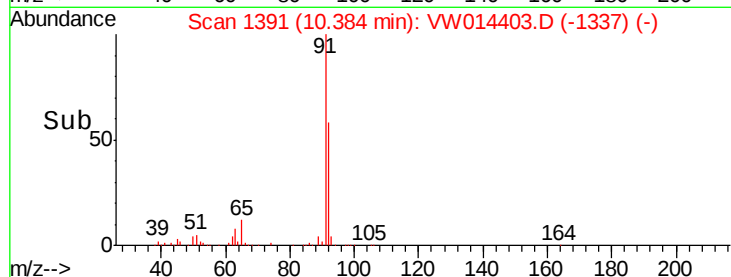
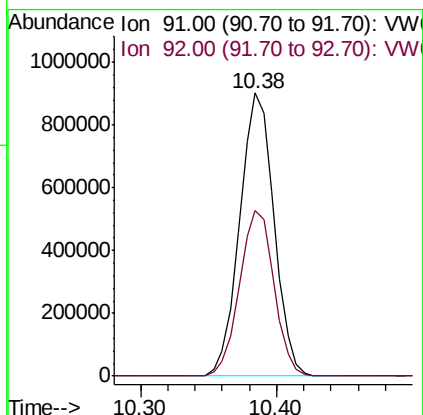
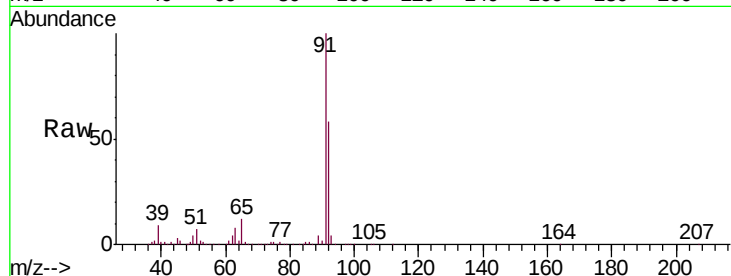
VSTD02523

Tgt Ion: 91 Resp: 1587726

Ion Ratio Lower Upper

91 100

92 58.4 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 24.449 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014403.D

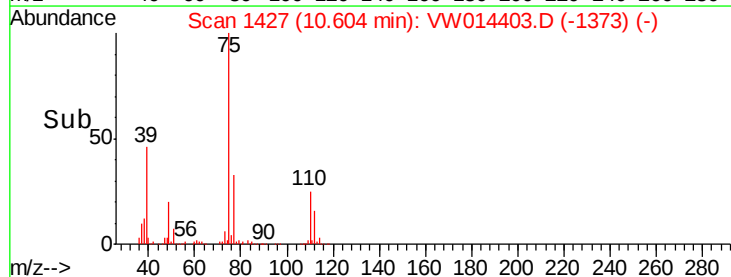
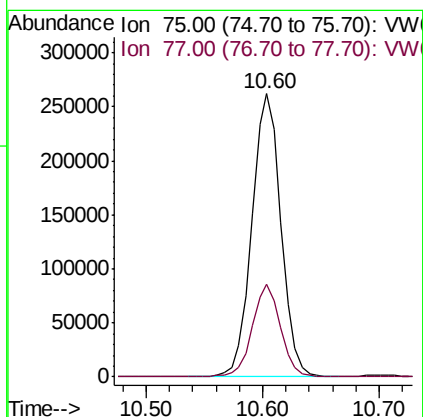
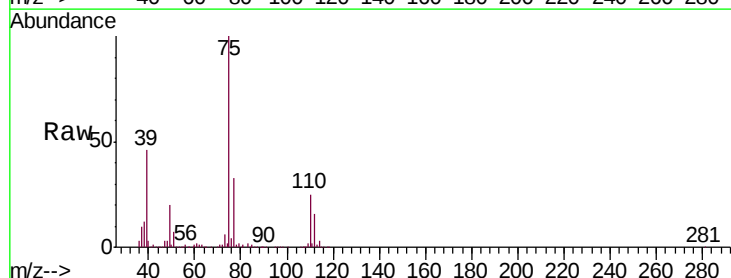
Acq: 17 Dec 2019 19:53

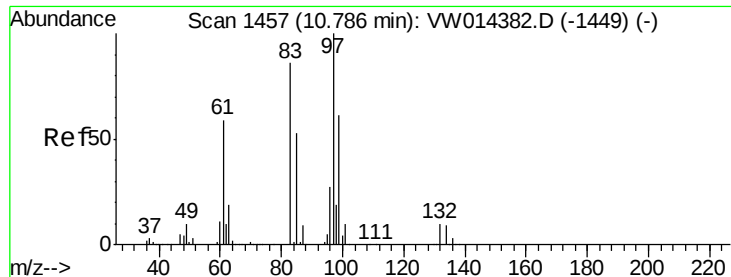
Tgt Ion: 75 Resp: 456873

Ion Ratio Lower Upper

75 100

77 32.7 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 23.580 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

Tgt Ion: 97 Resp: 272381

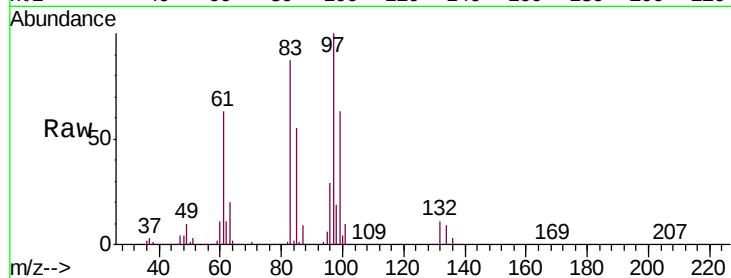
Ion Ratio Lower Upper

97 100

83 87.4 58.9 109.5

85 54.8 38.1 70.9

99 63.2 46.5 86.3

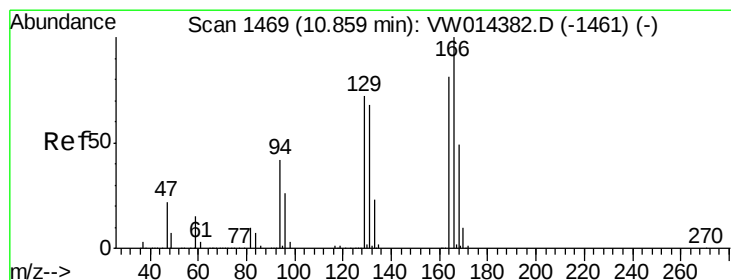
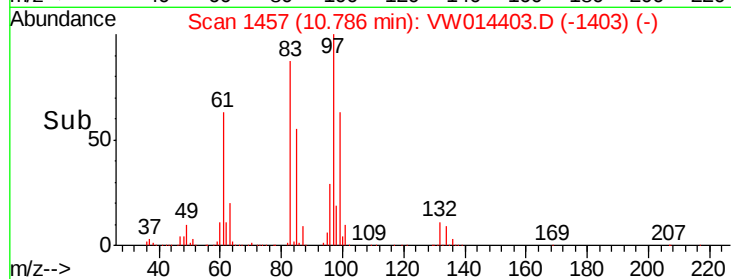
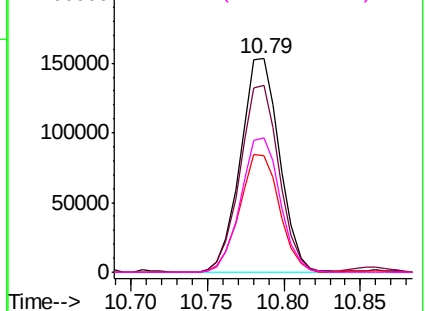


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 24.406 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Tgt Ion: 164 Resp: 312294

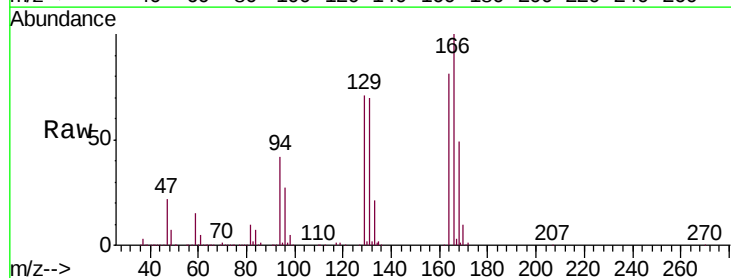
Ion Ratio Lower Upper

164 100

129 88.5 60.6 112.6

131 86.1 59.1 109.7

166 123.8 90.8 168.6

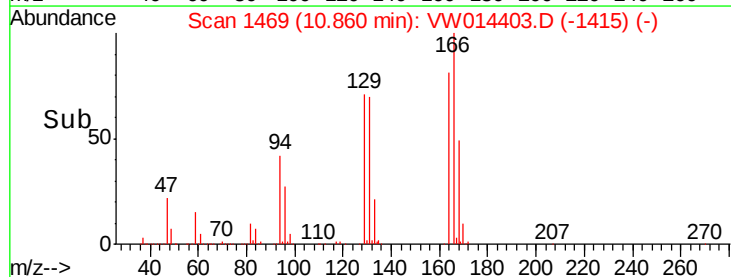
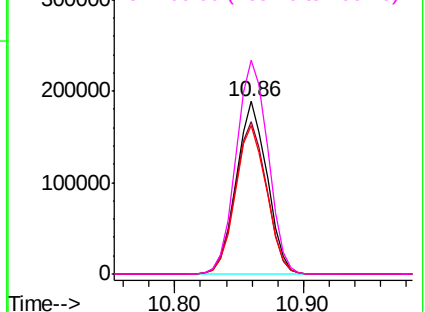


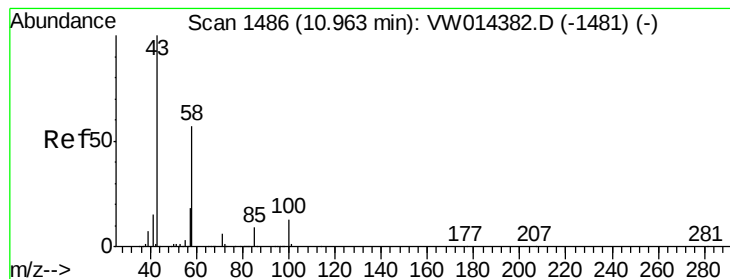
Abundance Ion 164.00 (163.70 to 164.70): V

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: 49.798 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

Tgt Ion: 43 Resp: 360382

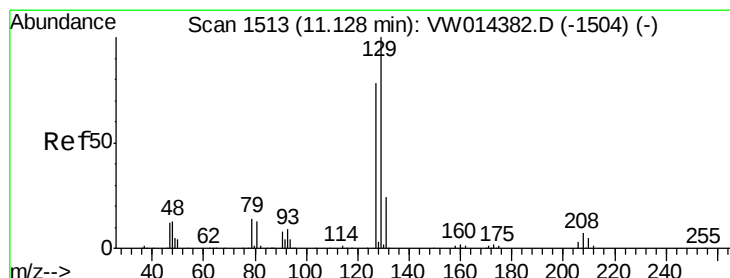
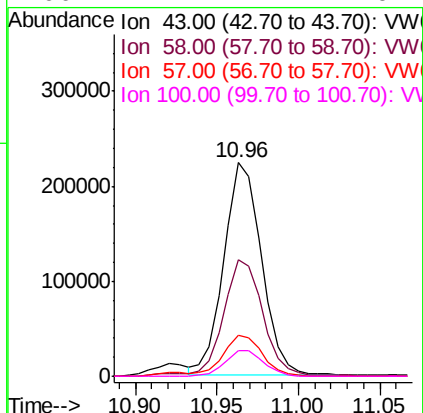
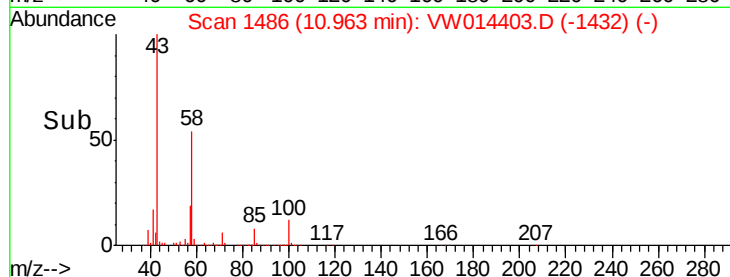
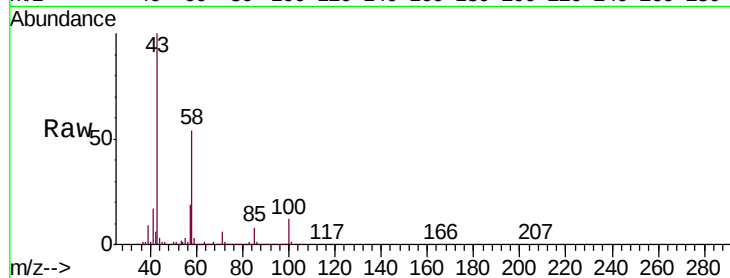
Ion Ratio Lower Upper

43 100

58 56.7 44.4 66.6

57 20.0 16.5 24.7

100 12.4 11.1 16.7



#50

Dibromochloromethane

Concen: 23.390 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW014403.D

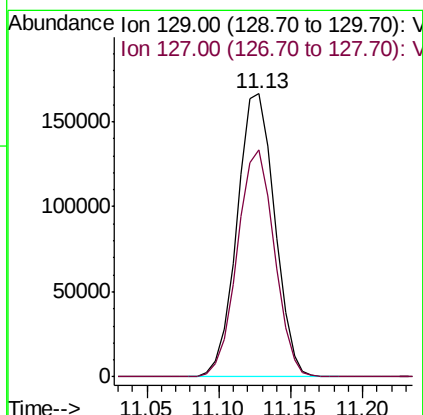
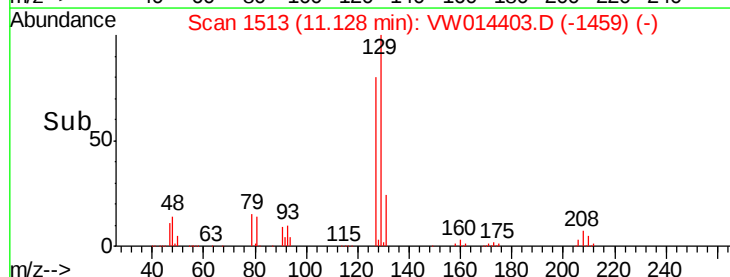
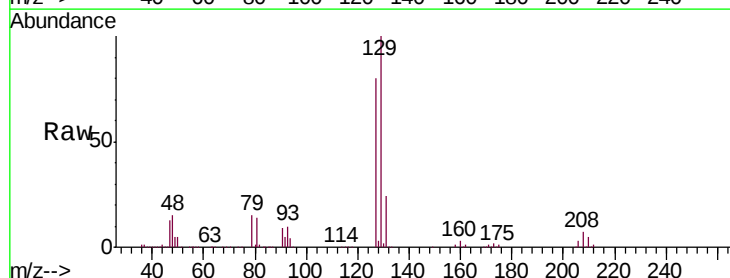
Acq: 17 Dec 2019 19:53

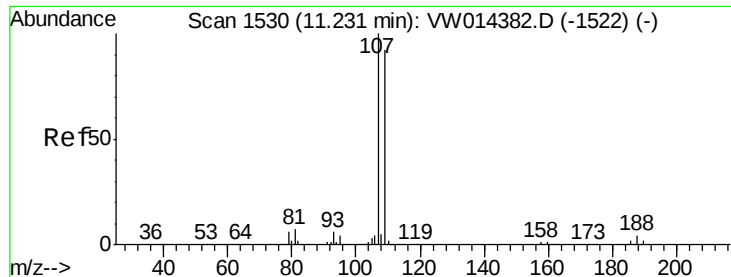
Tgt Ion: 129 Resp: 303242

Ion Ratio Lower Upper

129 100

127 80.1 54.9 102.1





#51

1,2-Dibromoethane

Concen: 23.619 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

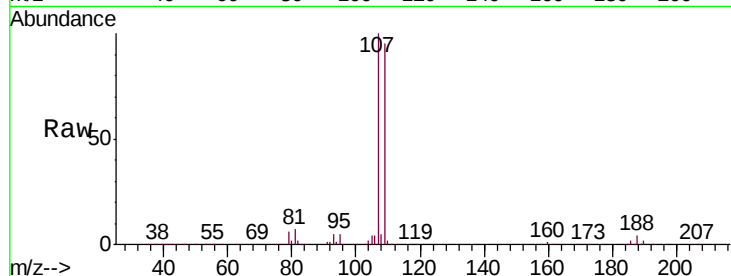
Tgt Ion:107 Resp: 258424

Ion Ratio Lower Upper

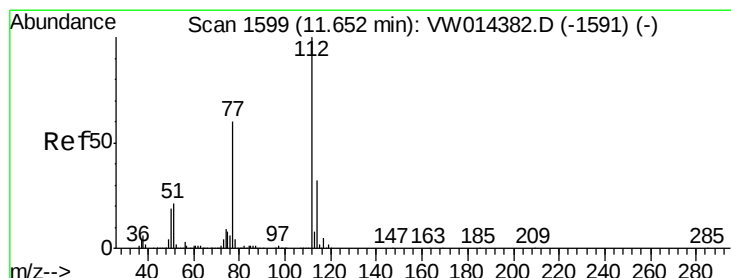
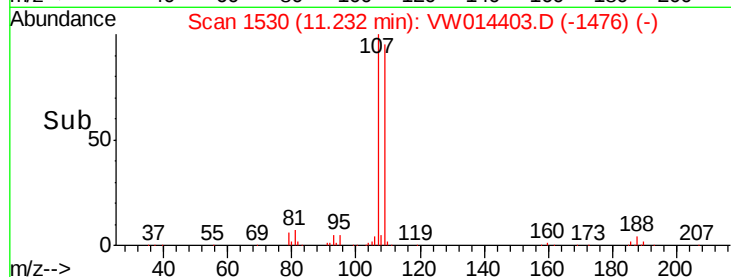
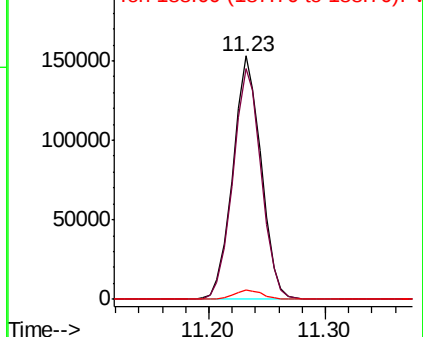
107 100

109 94.7 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: 24.398 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

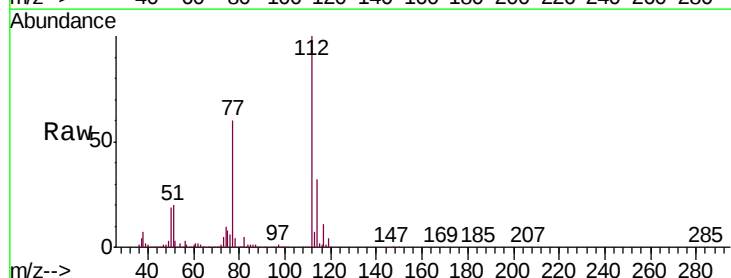
Tgt Ion:112 Resp: 991935

Ion Ratio Lower Upper

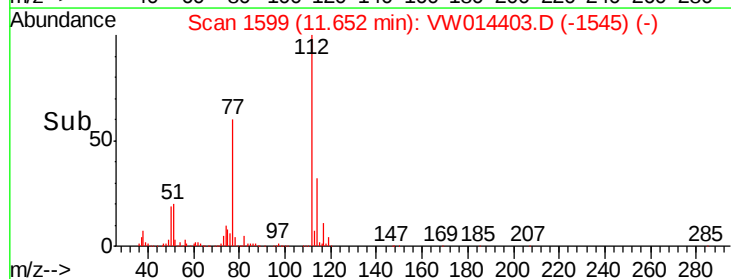
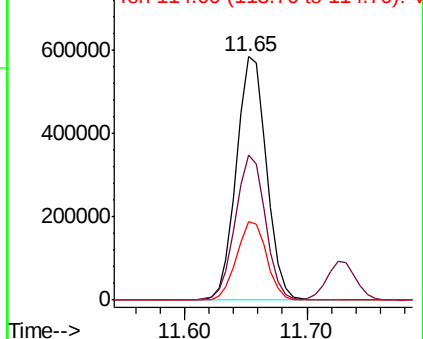
112 100

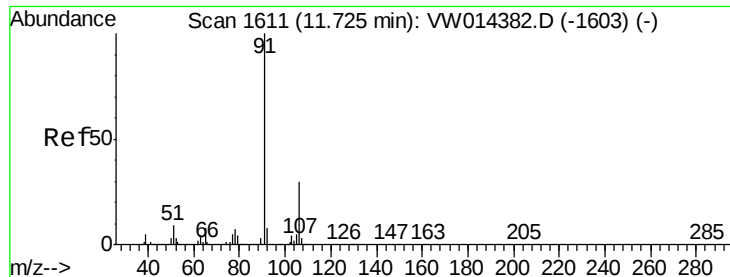
77 59.8 42.2 63.4

114 32.4 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: 25.925 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

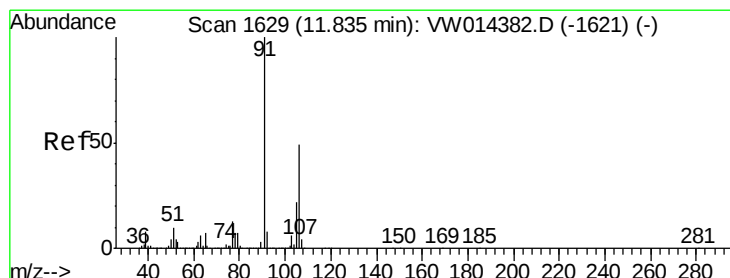
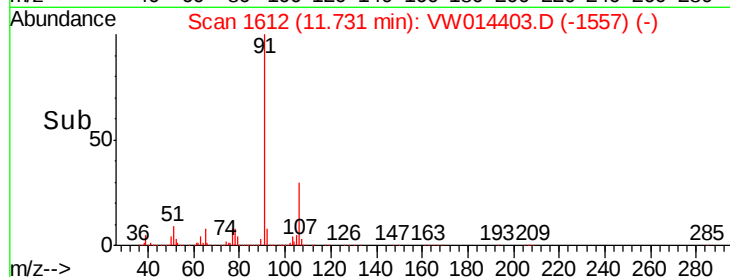
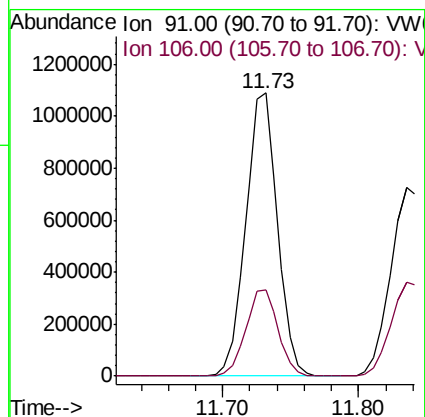
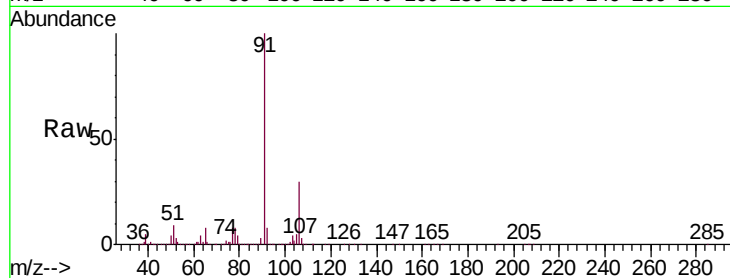
VSTD02523

Tgt Ion: 91 Resp: 1769623

Ion Ratio Lower Upper

91 100

106 30.5 22.3 41.5



#54

m,p-Xylene

Concen: 25.826 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014403.D

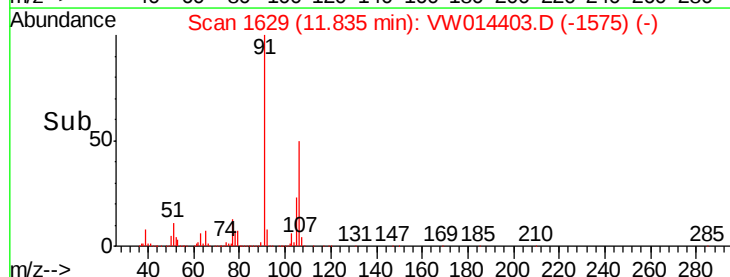
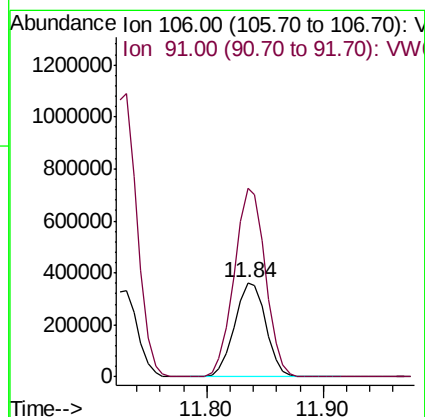
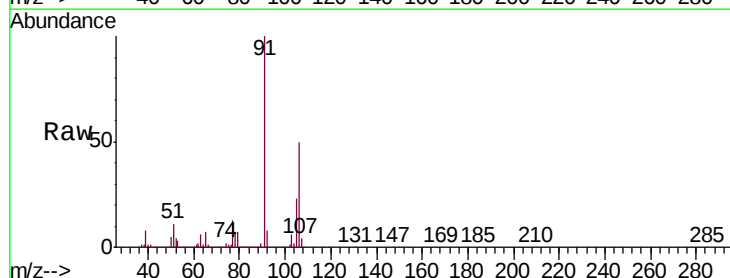
Acq: 17 Dec 2019 19:53

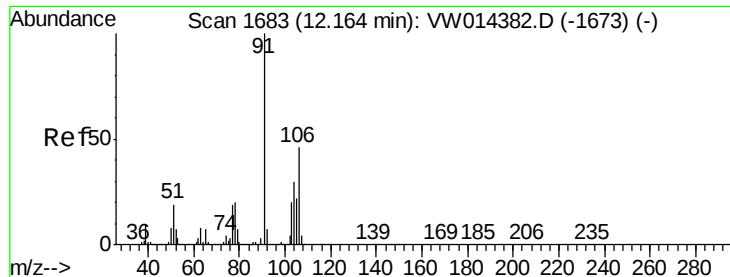
Tgt Ion: 106 Resp: 678120

Ion Ratio Lower Upper

106 100

91 201.2 138.7 257.5





#55

o-xylene

Concen: 25.788 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

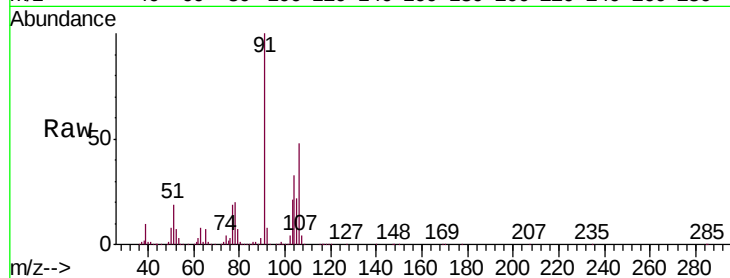
VSTD02523

Tgt Ion:106 Resp: 642254

Ion Ratio Lower Upper

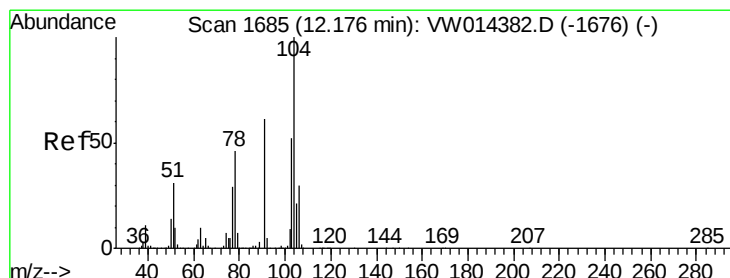
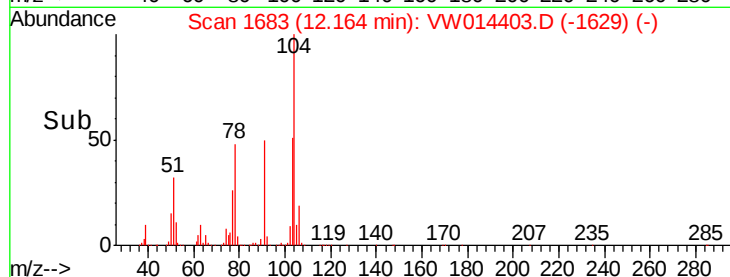
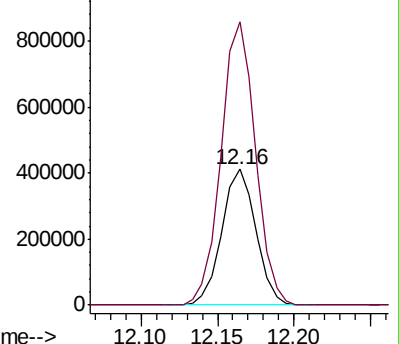
106 100

91 208.3 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 26.100 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014403.D

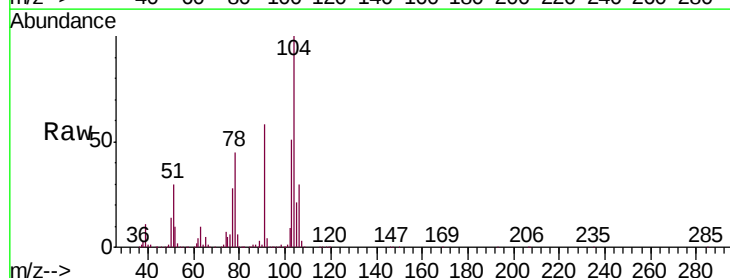
Acq: 17 Dec 2019 19:53

Tgt Ion:104 Resp: 1112010

Ion Ratio Lower Upper

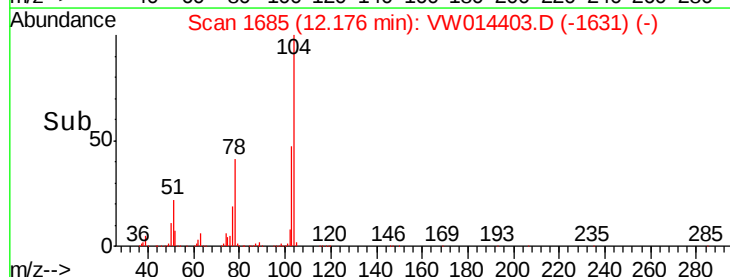
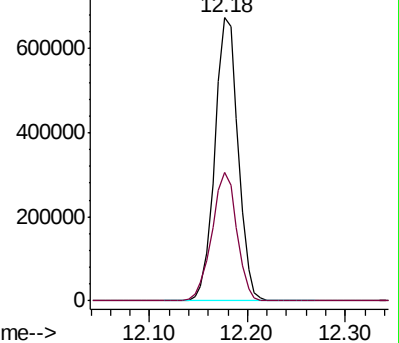
104 100

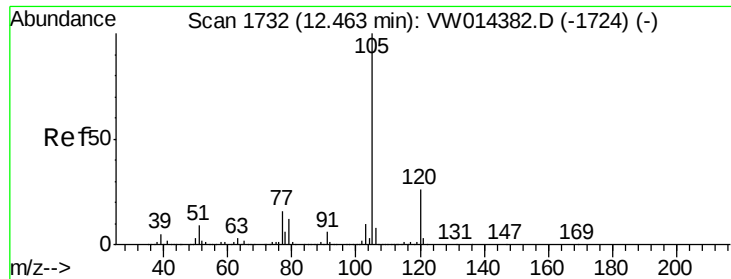
78 45.4 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.581 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampled :

VSTD02523

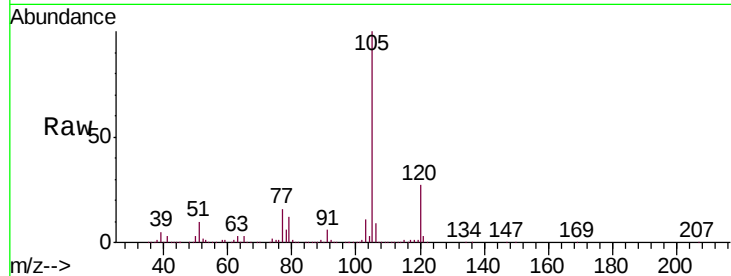
Tgt Ion: 105 Resp: 1718623

Ion Ratio Lower Upper

105 100

120 26.5 21.6 32.4

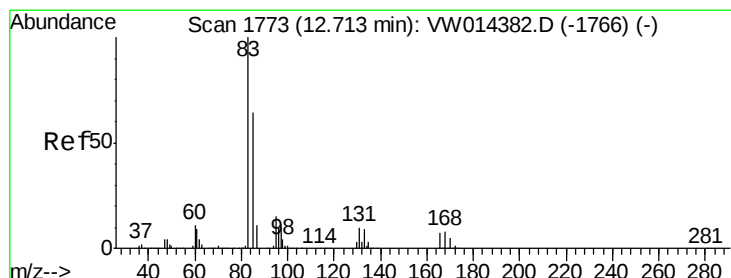
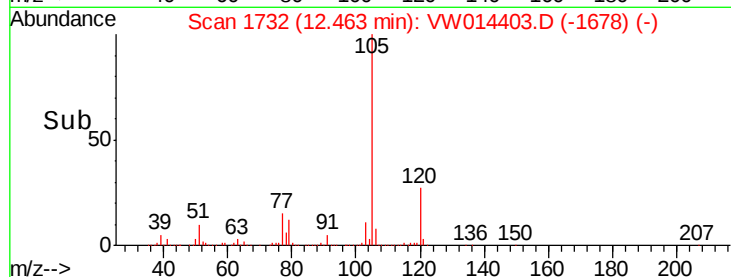
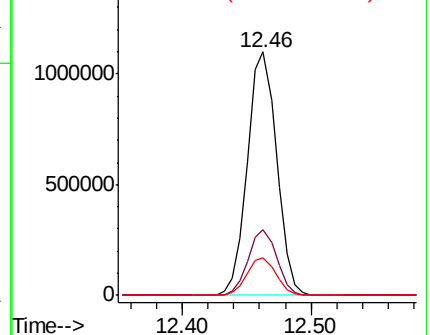
77 15.4 11.6 17.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 23.976 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

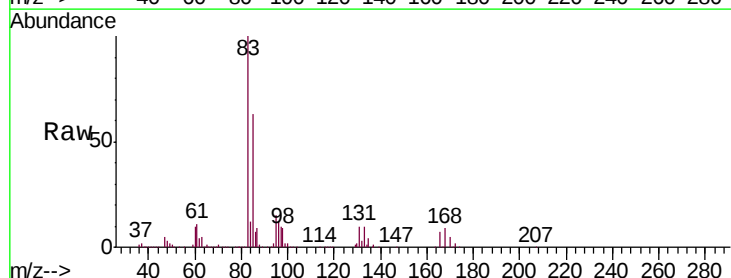
Tgt Ion: 83 Resp: 343742

Ion Ratio Lower Upper

83 100

85 62.7 43.7 81.1

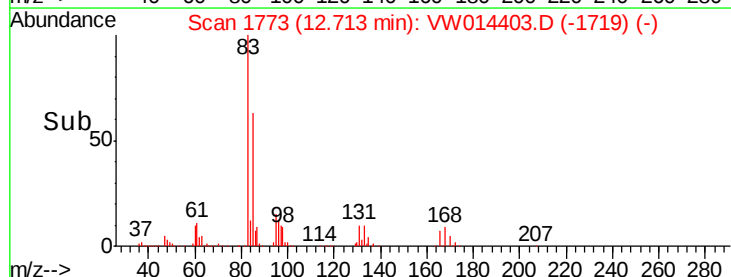
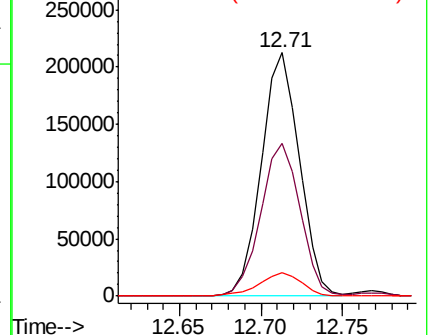
131 9.7 8.2 12.2

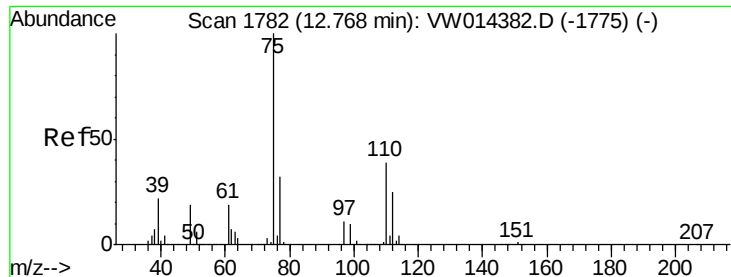


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.982 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

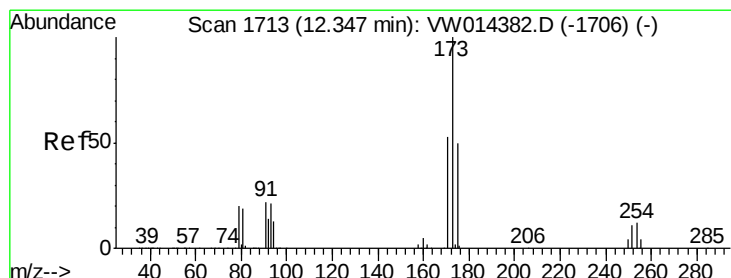
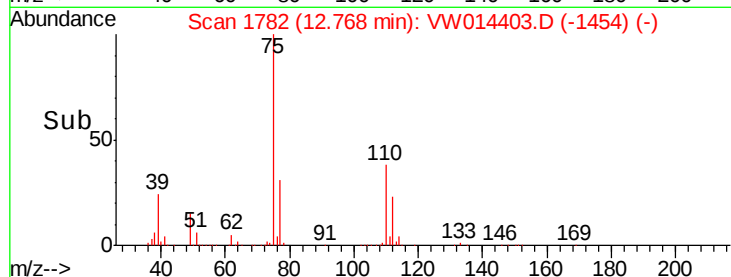
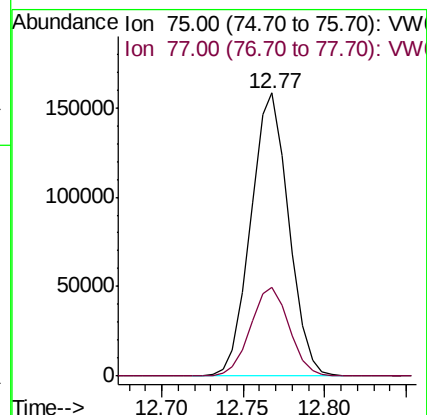
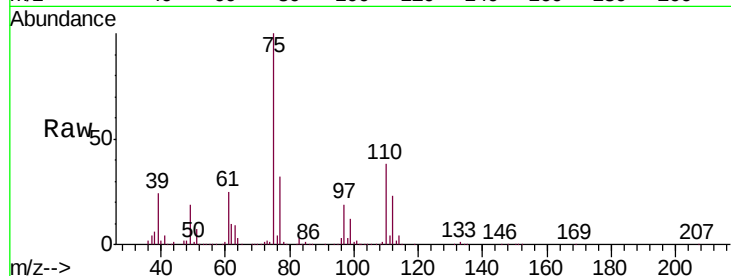
VSTD02523

Tgt Ion: 75 Resp: 255488

Ion Ratio Lower Upper

75 100

77 32.1 25.9 38.9



#62

Bromoform

Concen: 22.303 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

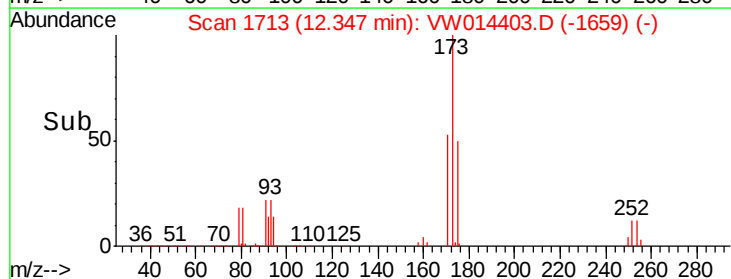
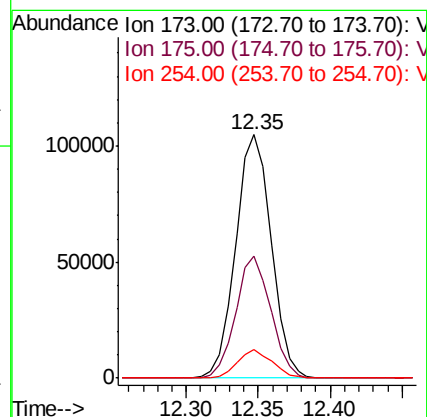
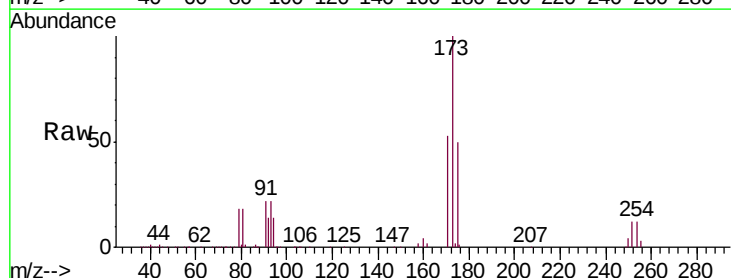
Tgt Ion: 173 Resp: 180372

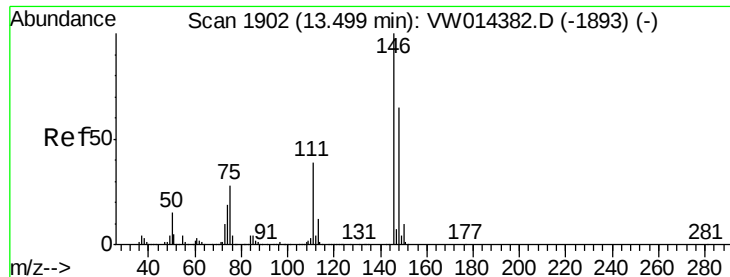
Ion Ratio Lower Upper

173 100

175 49.4 38.8 58.2

254 11.6 9.4 14.0





#63

1,3-Dichlorobenzene

Concen: 24.605 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

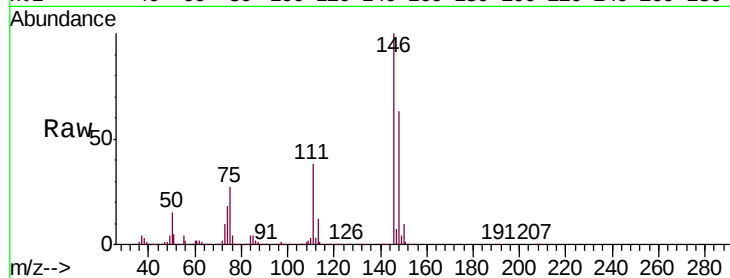
Tgt Ion:146 Resp: 788014

Ion Ratio Lower Upper

146 100

111 37.8 26.0 48.2

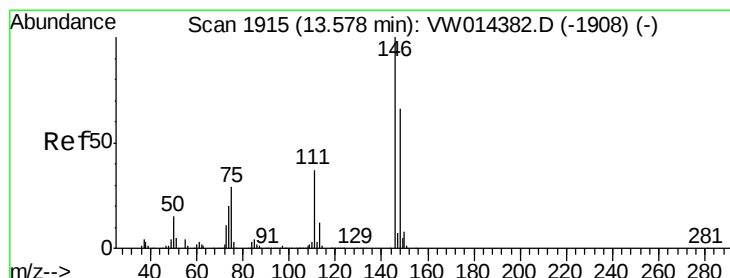
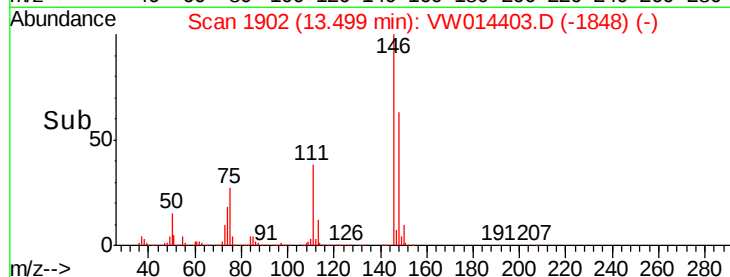
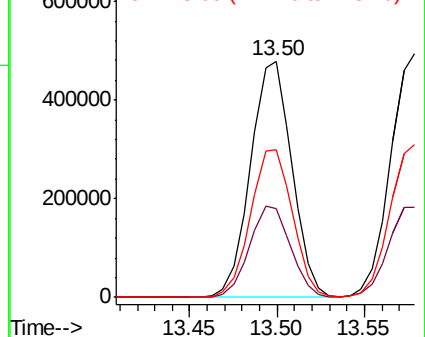
148 62.7 44.7 82.9



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: 24.055 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

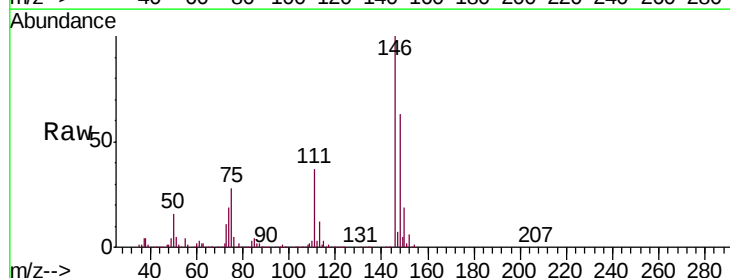
Tgt Ion:146 Resp: 782720

Ion Ratio Lower Upper

146 100

111 37.0 24.9 46.3

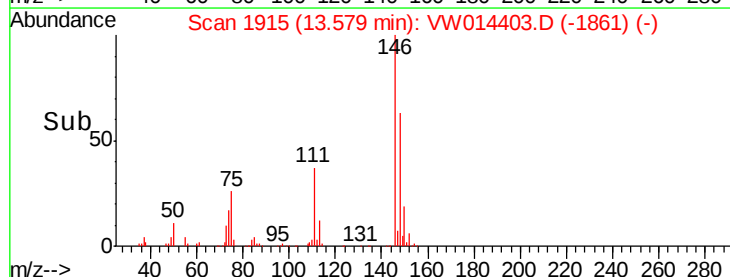
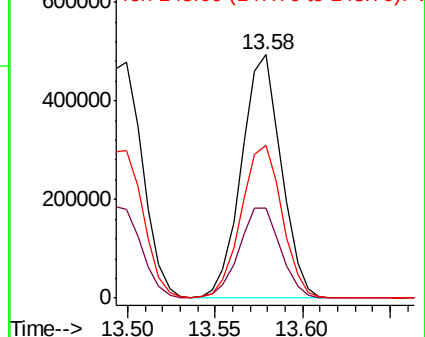
148 62.8 43.9 81.5

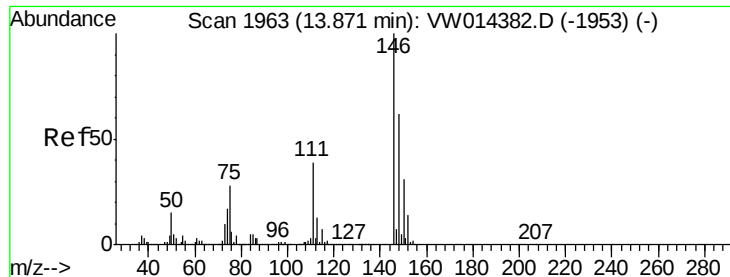


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

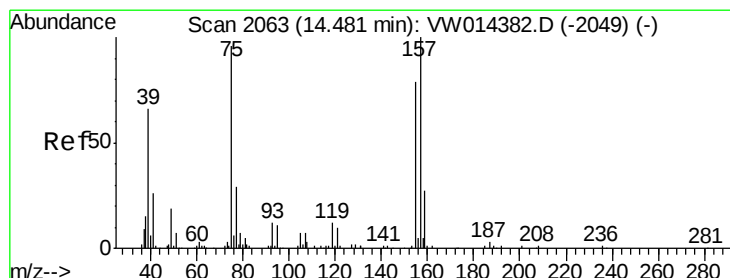
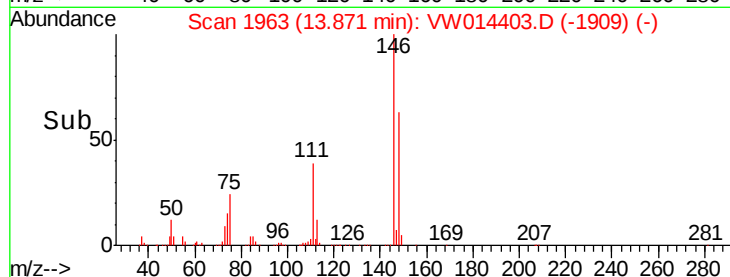
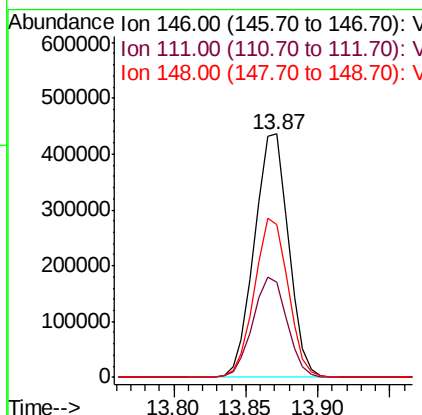
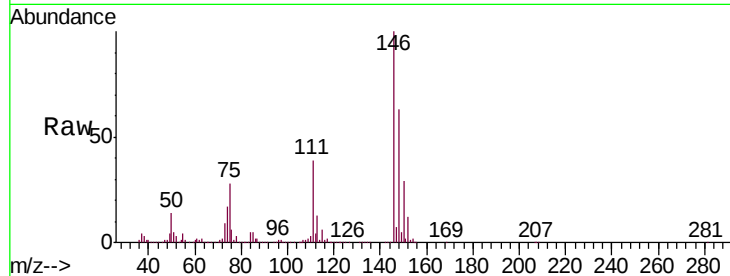




#65
 1,2-Dichlorobenzene
 Concen: 23.967 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW014403.D
 Acq: 17 Dec 2019 19:53

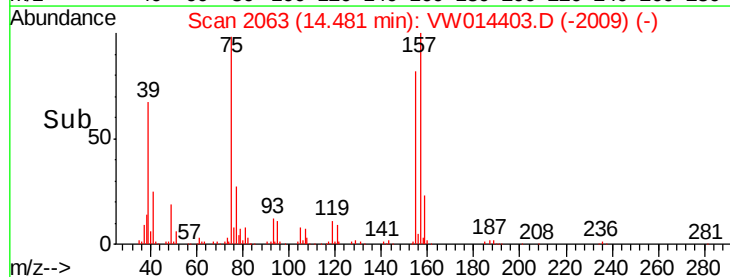
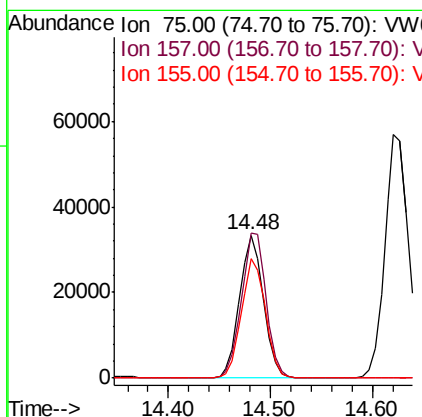
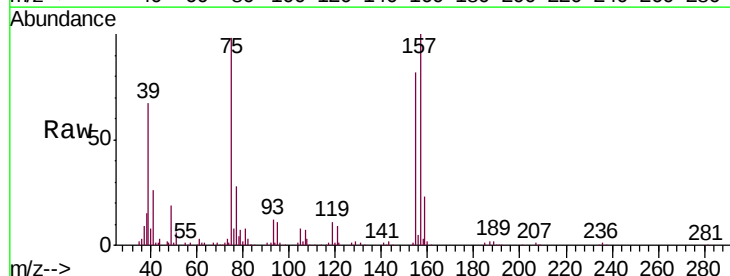
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02523

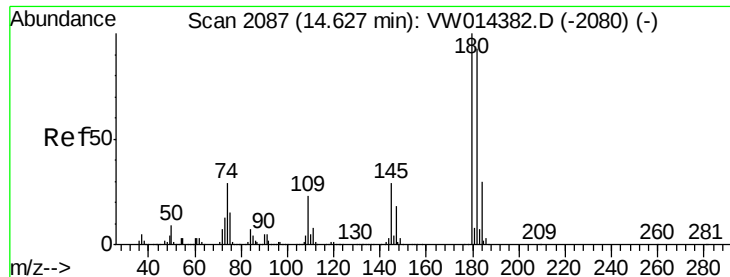
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	30.5	45.7
148	62.9	49.4	74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.474 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014403.D
 Acq: 17 Dec 2019 19:53

Tgt Ion	Ratio	Lower	Upper
75	100		
157	101.8	96.9	145.3
155	83.4	82.9	124.3

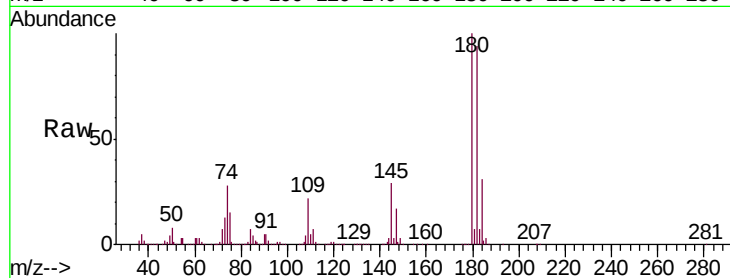




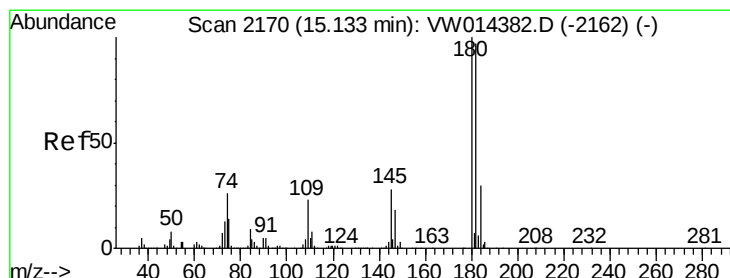
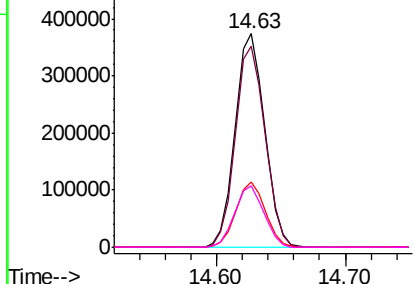
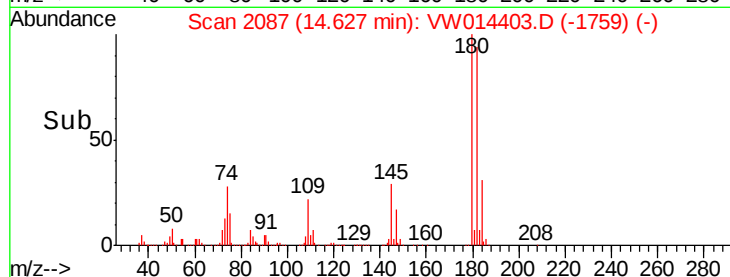
#67
 1,3,5-Trichlorobenzene
 Concen: 25.817 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014403.D
 Acq: 17 Dec 2019 19:53

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02523

Tgt Ion:	180	Resp:	594885
Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.2
184	30.4	24.3	36.5
145	28.6	21.9	32.9

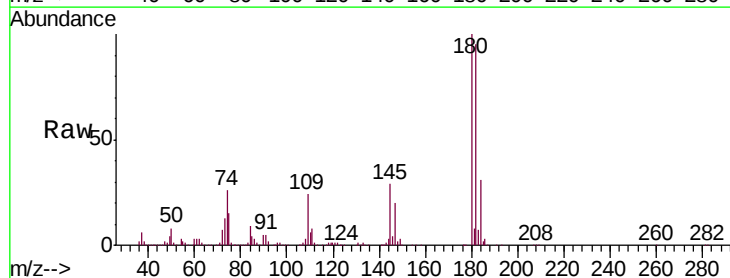


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

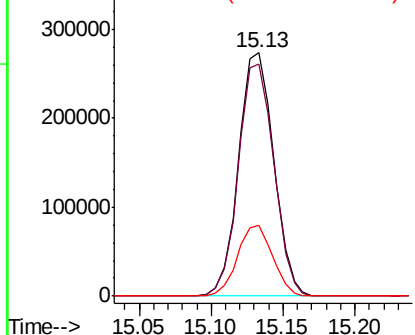
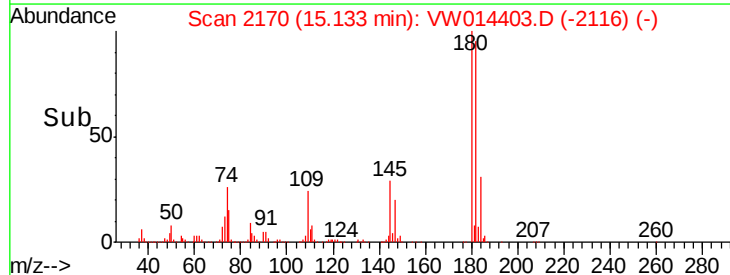


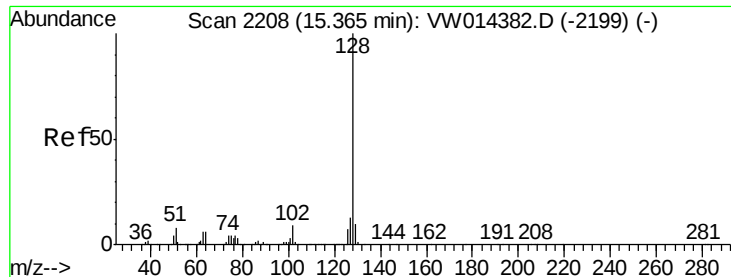
#68
 1,2,4-trichlorobenzene
 Concen: 25.850 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014403.D
 Acq: 17 Dec 2019 19:53

Tgt Ion:	180	Resp:	464343
Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.8	113.8
145	29.2	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: 25.711 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

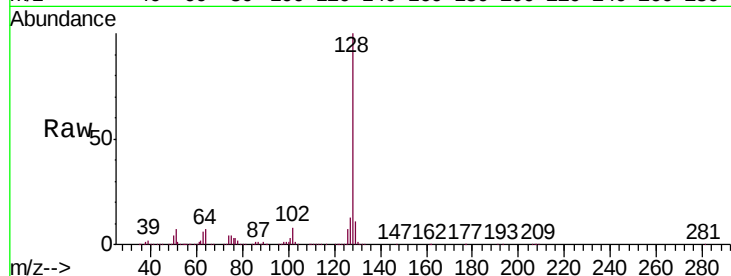
Tgt Ion:128 Resp: 868545

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

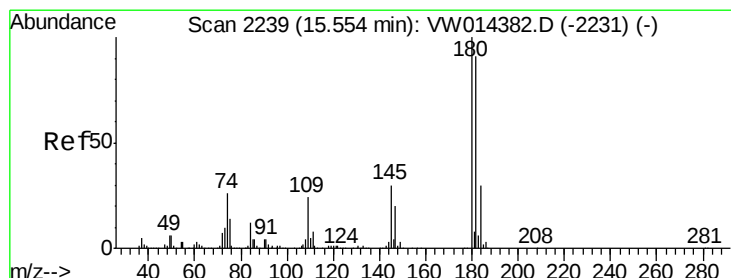
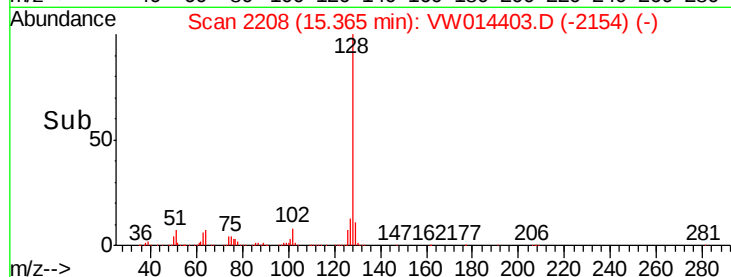
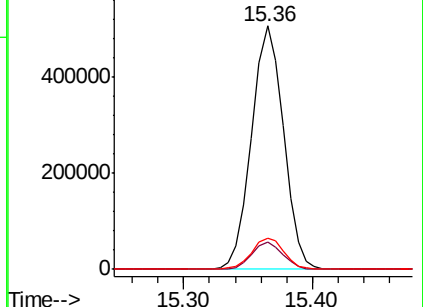
127 13.0 10.4 15.6



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: 26.083 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014403.D

Acq: 17 Dec 2019 19:53

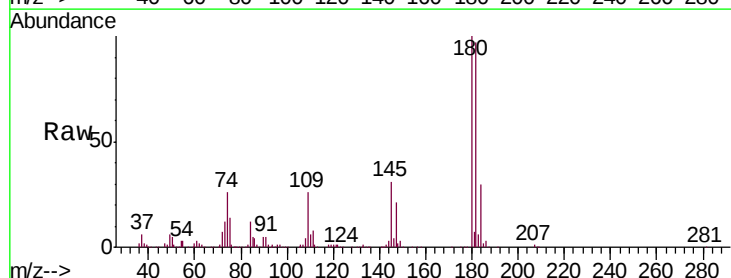
Tgt Ion:180 Resp: 439381

Ion Ratio Lower Upper

180 100

182 94.4 75.8 113.6

145 30.7 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

