

Data File : VW011231.D
Acq On : 12 Jul 2019 09:48
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

Quant Time: Jul 13 05:32:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M
Quant Title : VOC Analysis
QLast Update : Thu Jul 11 05:38:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	362019	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	327800	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	161561	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	121392	21.96	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.84%
7) Chloroethane-d5	2.88	69	89135	22.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.92%
10) 1,1-Dichloroethene-d2	4.01	63	269371	23.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.04%
20) 2-Butanone-d5	7.09	46	102216	46.94	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.88%
24) Chloroform-d	7.64	84	234046	23.59	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.36%
26) 1,2-Dichloroethane-d4	8.31	65	142436	23.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.24%
29) Benzene-d6	8.27	84	475021	23.52	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.08%
33) 1,2-Dichloropropane-d6	9.27	67	155560	23.66	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.64%
37) Toluene-d8	10.32	98	420327	23.36	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.44%
38) trans-1,3-Dichloropropene-	10.58	79	66382	23.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.96%
39) 2-Hexanone-d5	10.93	63	70853	46.98	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.96%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	128435	23.61	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.44%
61) 1,2-Dichlorobenzene-d4	13.86	152	143458	23.13	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.52%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	110403	24.796	ug/L	100
3) Chloromethane	2.20	50	101004	20.895	ug/L	99
5) Vinyl chloride	2.35	62	141311	22.397	ug/L	99
6) Bromomethane	2.78	94	69809	23.650	ug/L	100
8) Chloroethane	2.92	64	74778	23.449	ug/L	98
9) Trichlorofluoromethane	3.24	101	51974	24.060	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.05	101	114642	23.817	ug/L	99
12) 1,1-Dichloroethene	4.03	96	112824	23.715	ug/L	92
14) Carbon disulfide	4.38	76	315005	23.147	ug/L	99
15) Methyl Acetate	4.68	43	78150	22.581	ug/L	98
16) Methylene chloride	4.92	84	124071	23.322	ug/L	98
17) Methyl tert-butyl Ether	5.42	73	192485	26.089	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	112097	23.317	ug/L	97
19) 1,1-Dichloroethane	6.21	63	236836	24.267	ug/L	98
21) 2-Butanone	7.18	43	120037	43.719	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	125363	24.091	ug/L	100
23) Bromochloromethane	7.51	128	52825	24.193	ug/L	99

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	220056	23.804	ug/L	99
27) 1,2-Dichloroethane	8.40	62	166944	23.624	ug/L	100
30) Cyclohexane	7.95	56	234889	23.568	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	164865	24.233	ug/L	99
32) Carbon tetrachloride	8.06	117	154204	24.168	ug/L	98
34) Benzene	8.32	78	491672	23.999	ug/L	100
35) Trichloroethene	9.09	95	122666	23.727	ug/L	99
36) Methylcyclohexane	9.33	83	221271	23.783	ug/L	99
40) 1,2-Dichloropropane	9.37	63	135416	24.122	ug/L	99
41) Bromodichloromethane	9.64	83	157907	24.397	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	207396	25.038	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	240237	46.163	ug/L	99
44) Toluene	10.38	91	511936	24.142	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	171101	24.964	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	93151	23.961	ug/L	97
47) Tetrachloroethene	10.86	164	90519	23.167	ug/L	99
49) 2-Hexanone	10.97	43	177154	46.767	ug/L	99
50) Dibromochloromethane	11.13	129	103288	24.950	ug/L	99
51) 1,2-Dibromoethane	11.23	107	90603	24.136	ug/L	100
52) Chlorobenzene	11.66	112	311517	24.046	ug/L	99
53) Ethylbenzene	11.73	91	576547	23.970	ug/L	99
54) m,p-Xylene	11.84	106	212347	24.316	ug/L	98
55) o-xylene	12.16	106	202878	24.421	ug/L	99
56) Styrene	12.18	104	353602	24.812	ug/L	98
57) Isopropylbenzene	12.46	105	551522	24.320	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	124503	24.073	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	94308	23.745	ug/L	99
62) Bromoform	12.35	173	59523	24.721	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	239341	24.079	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	241082	23.693	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	224158	24.227	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	20755	22.848	ug/L	95
67) 1,3,5-Trichlorobenzene	14.63	180	185219	24.594	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	155378	24.627	ug/L	99
69) Naphthalene	15.37	128	337156	25.516	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	145447	25.196	ug/L	99

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

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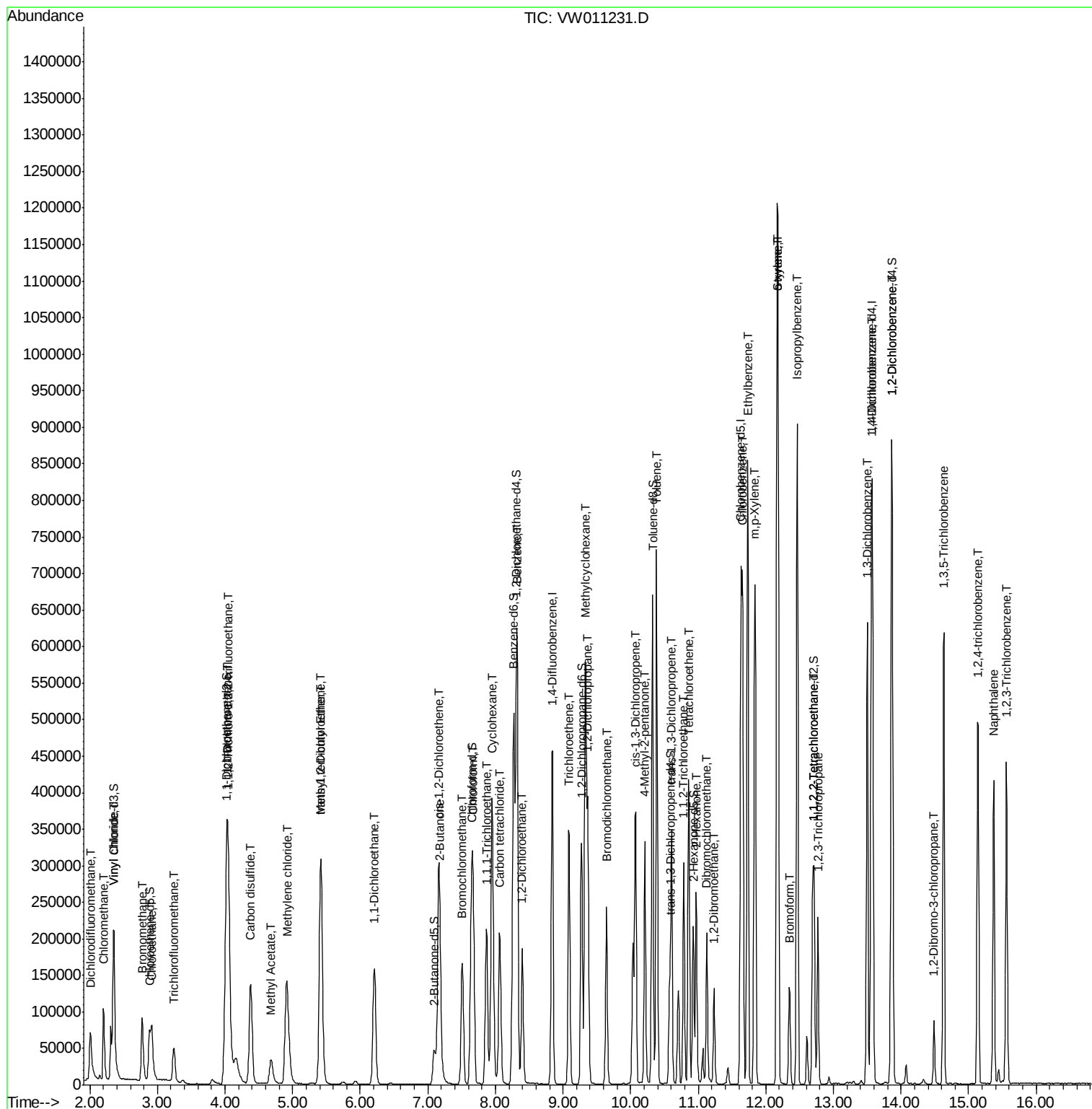
Quant Time: Jul 13 05:32:00 2019

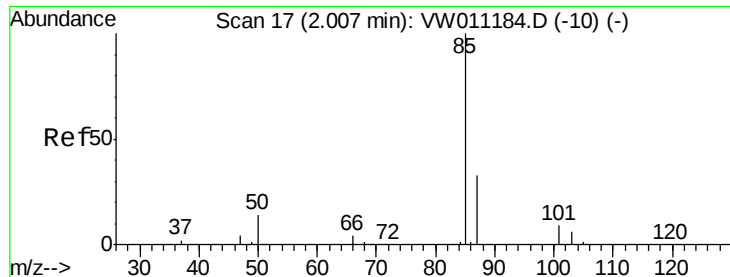
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M

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#2

Dichlorodifluoromethane

Concen: 24.796 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

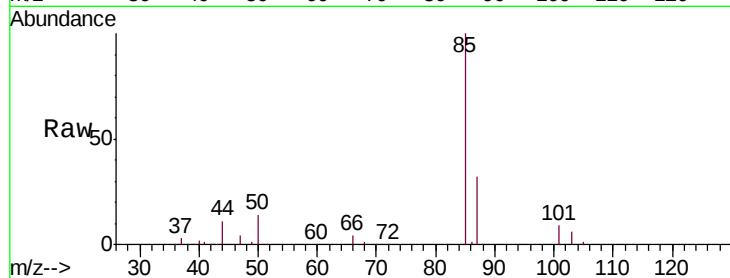
VSTD02519

Tgt Ion: 85 Resp: 110403

Ion Ratio Lower Upper

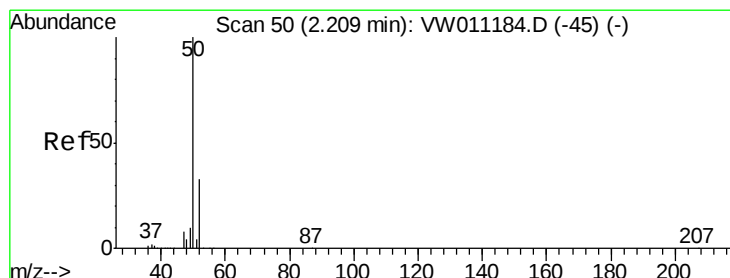
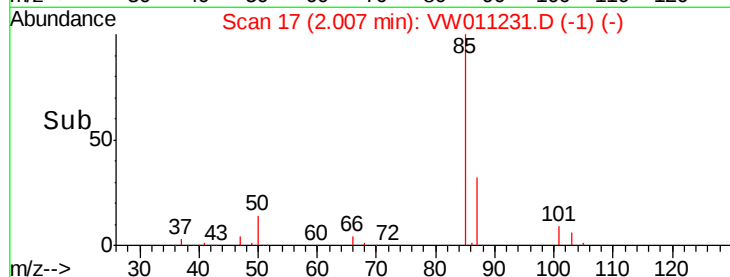
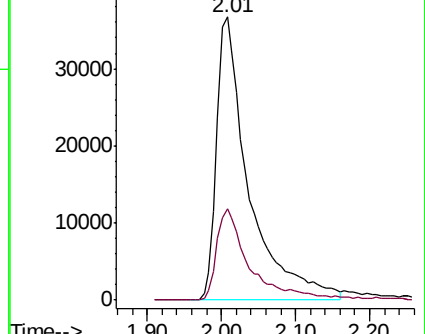
85 100

87 29.4 20.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 20.895 ug/L

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW011231.D

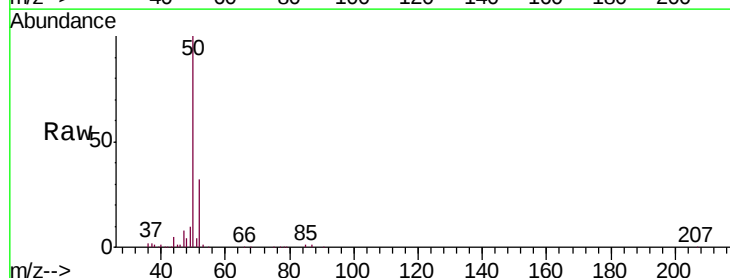
Acq: 12 Jul 2019 09:48

Tgt Ion: 50 Resp: 101004

Ion Ratio Lower Upper

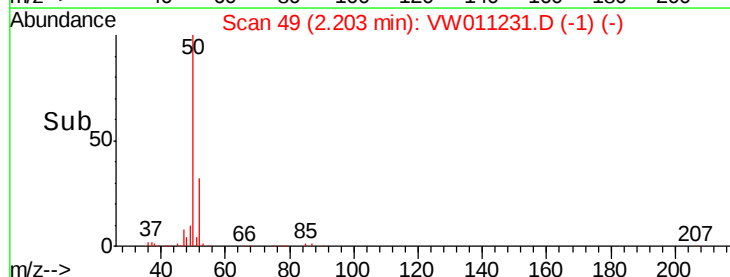
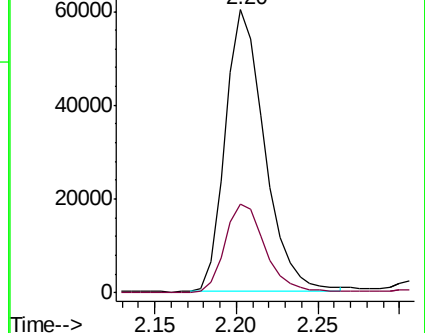
50 100

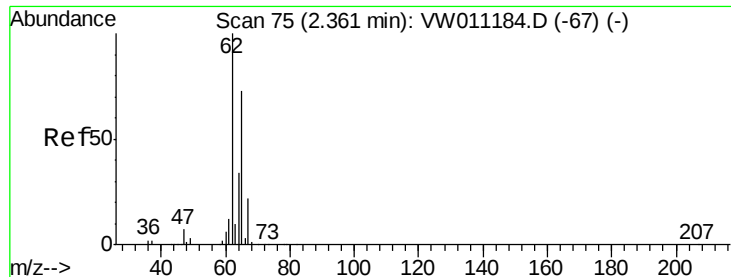
52 31.6 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 22.397 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

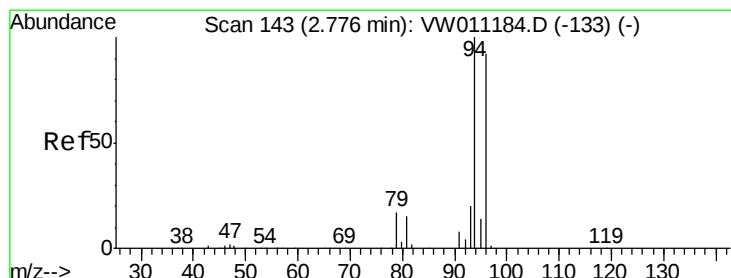
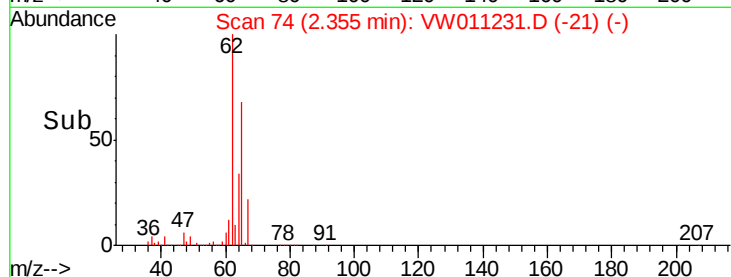
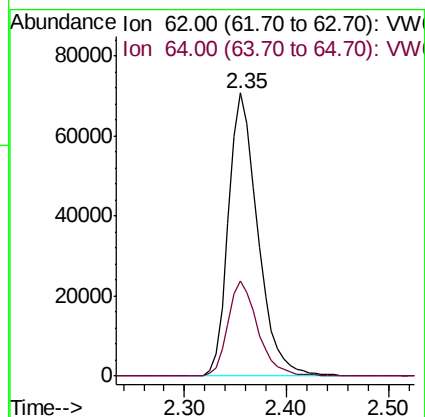
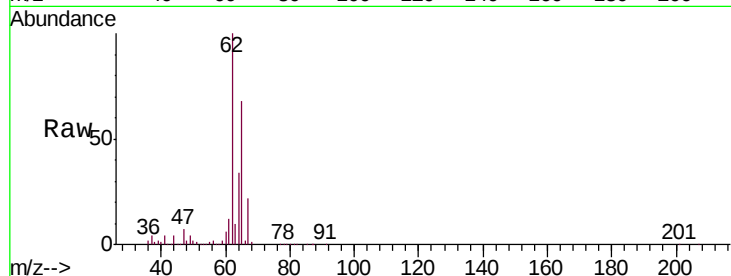
VSTD02519

Tgt Ion: 62 Resp: 141311

Ion Ratio Lower Upper

62 100

64 33.6 23.9 44.3



#6

Bromomethane

Concen: 23.650 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW011231.D

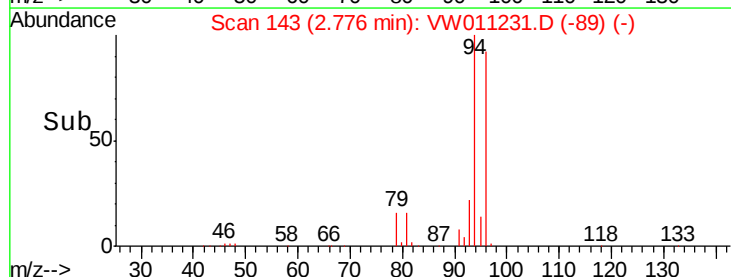
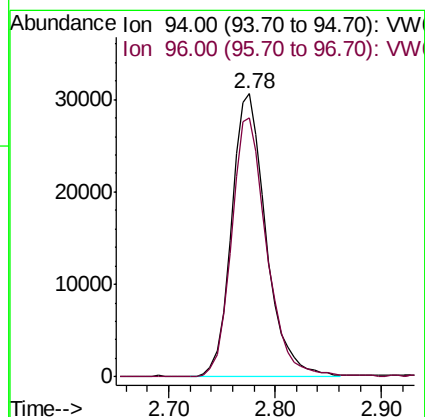
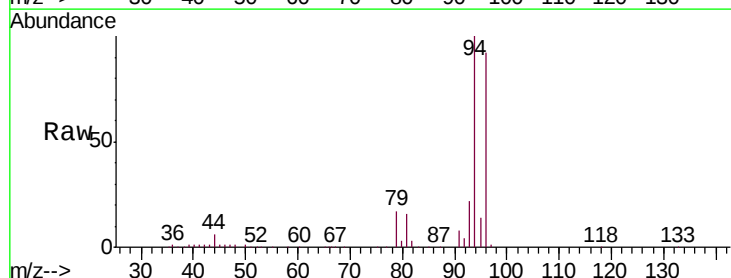
Acq: 12 Jul 2019 09:48

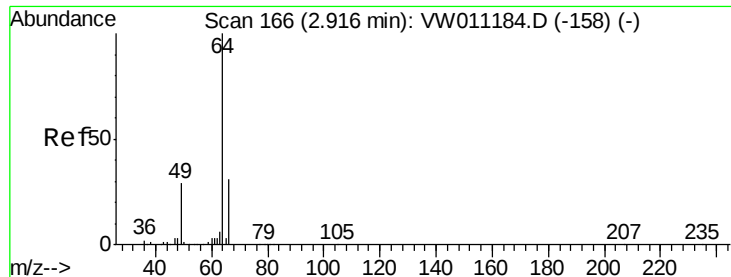
Tgt Ion: 94 Resp: 69809

Ion Ratio Lower Upper

94 100

96 93.0 9.3 177.3





#8

Chloroethane

Concen: 23.449 ug/L

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

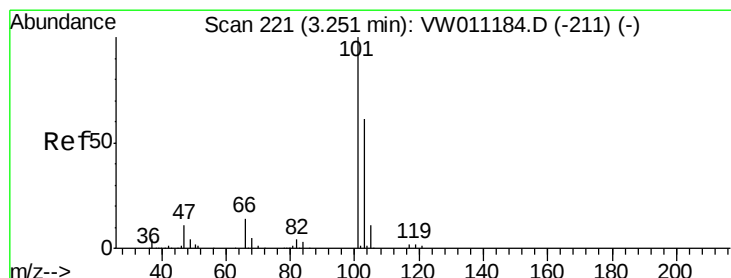
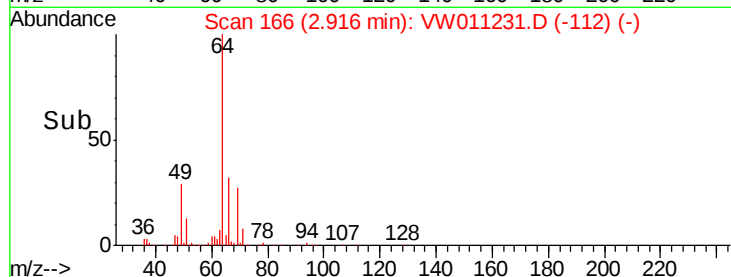
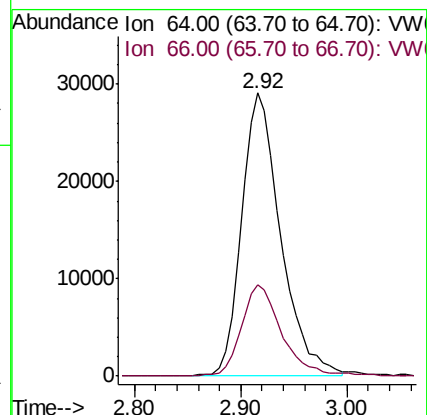
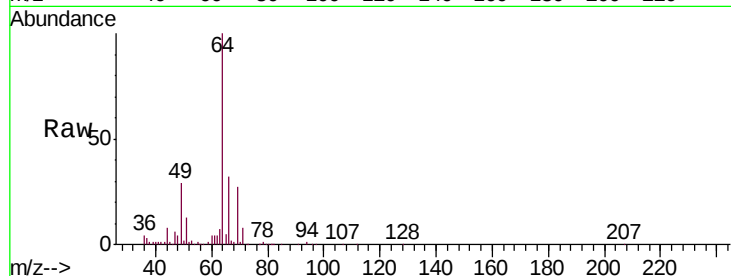
VSTD02519

Tgt Ion: 64 Resp: 74778

Ion Ratio Lower Upper

64 100

66 32.3 21.9 40.7



#9

Trichlorofluoromethane

Concen: 24.060 ug/L

RT: 3.24 min Scan# 219

Delta R.T. -0.01 min

Lab File: VW011231.D

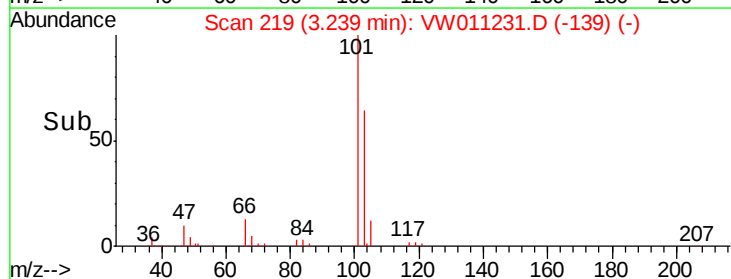
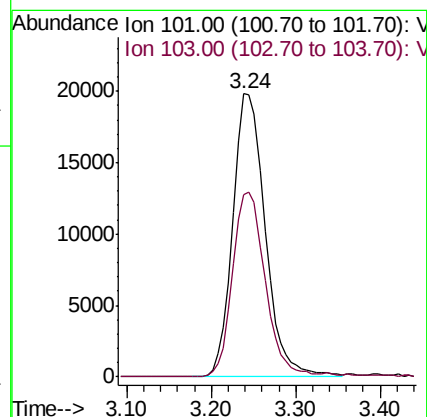
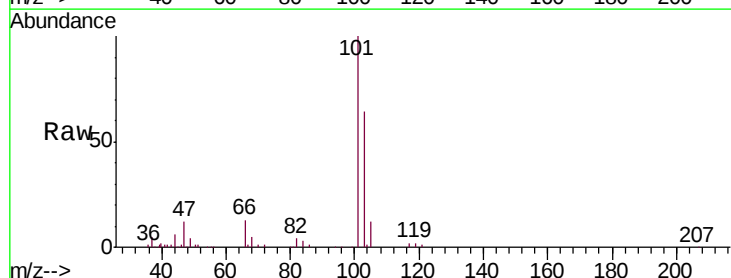
Acq: 12 Jul 2019 09:48

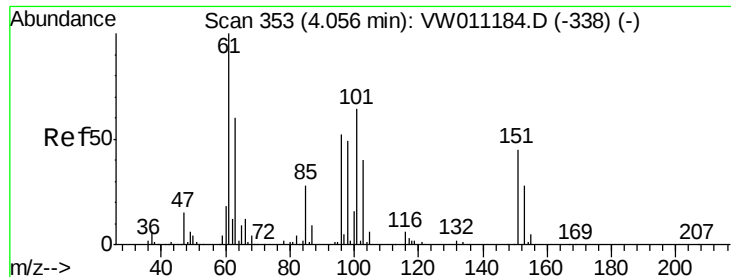
Tgt Ion: 101 Resp: 51974

Ion Ratio Lower Upper

101 100

103 65.6 44.6 82.8





#11

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

Concen: 23.817 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

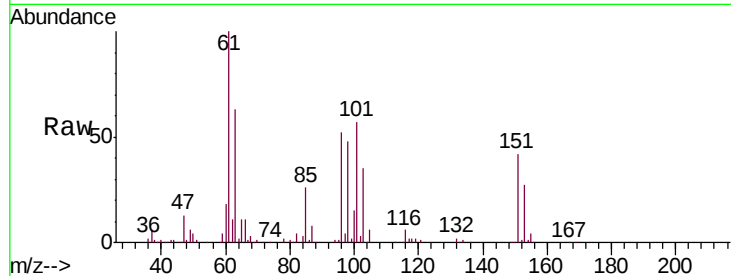
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Ion Ratio Lower Upper

101 100

85 43.5 33.8 50.8

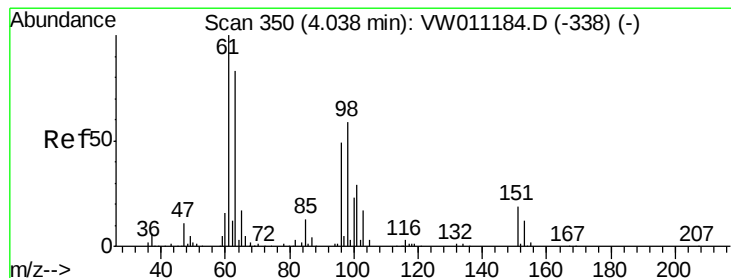
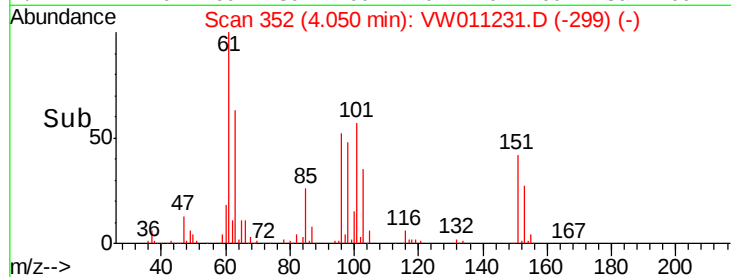
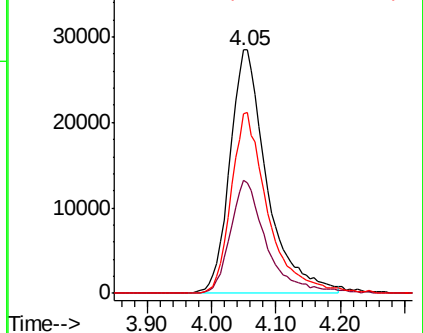
151 71.9 56.9 85.3



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: 23.715 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

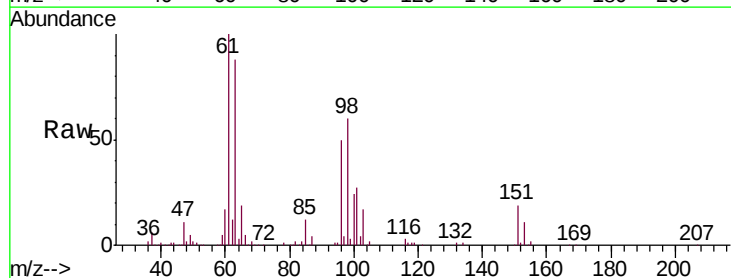
Tgt Ion: 96 Resp: 112824

Ion Ratio Lower Upper

96 100

61 200.8 142.2 264.0

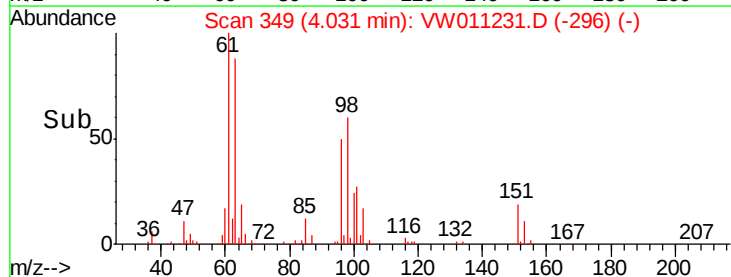
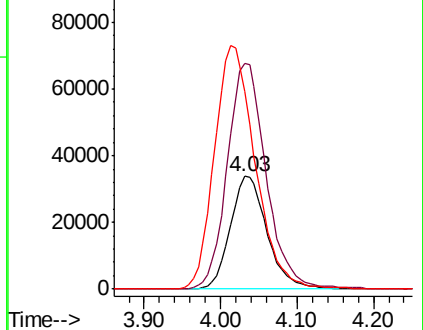
63 175.9 138.9 257.9

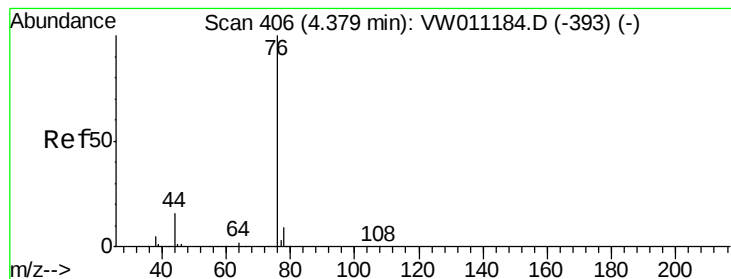


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#14

Carbon disulfide

Concen: 23.147 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

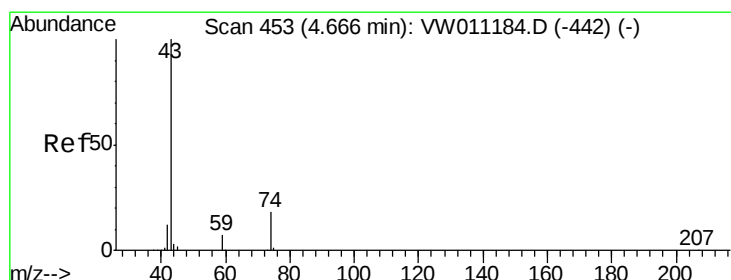
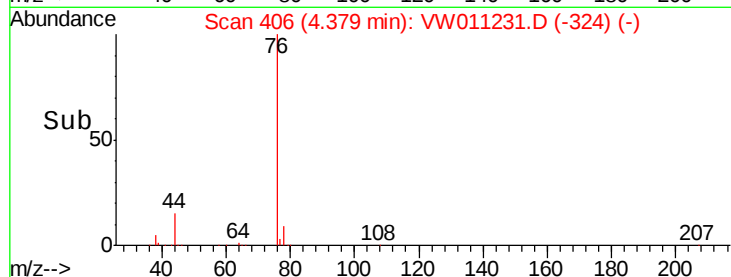
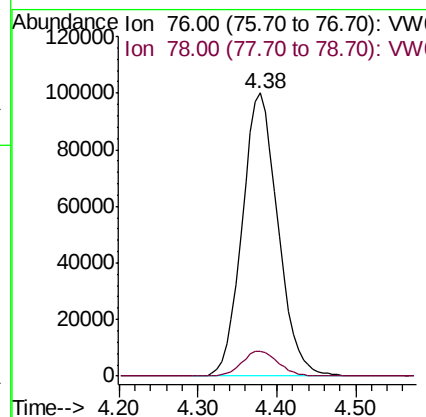
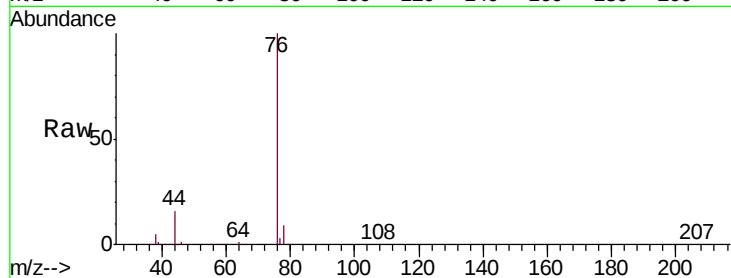
VSTD02519

Tgt Ion: 76 Resp: 315005

Ion Ratio Lower Upper

76 100

78 8.6 7.3 10.9



#15

Methyl Acetate

Concen: 22.581 ug/L

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW011231.D

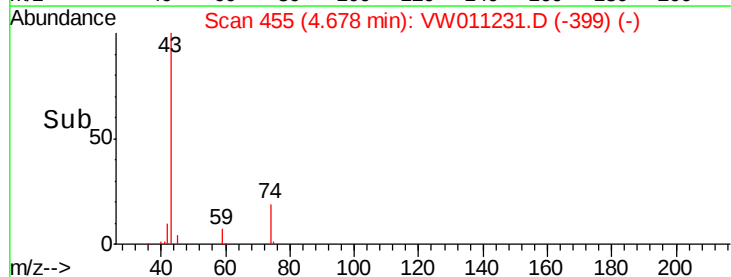
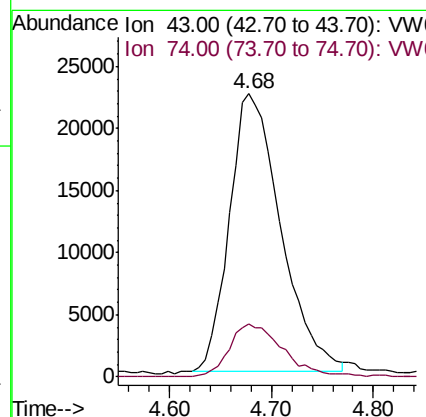
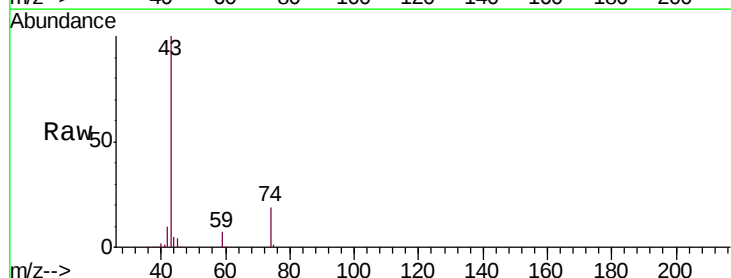
Acq: 12 Jul 2019 09:48

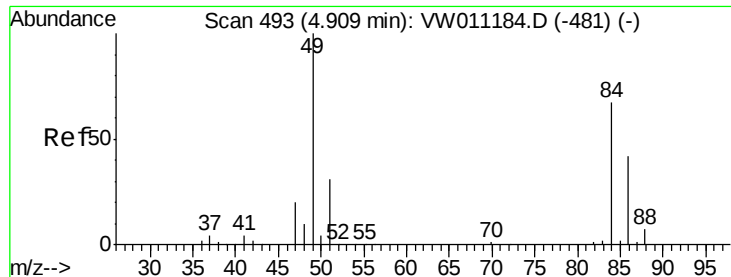
Tgt Ion: 43 Resp: 78150

Ion Ratio Lower Upper

43 100

74 19.6 15.1 22.7

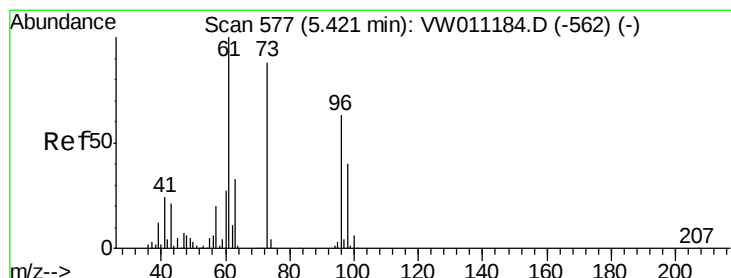
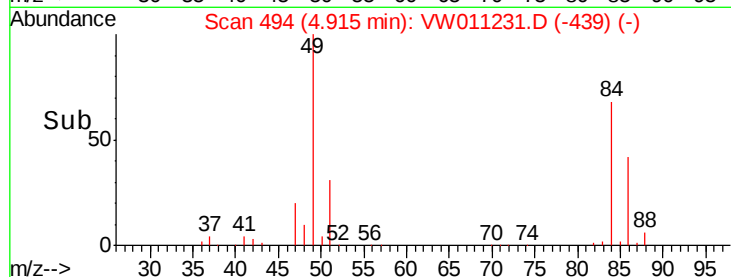
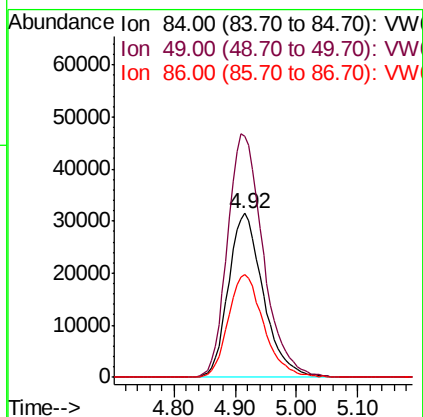
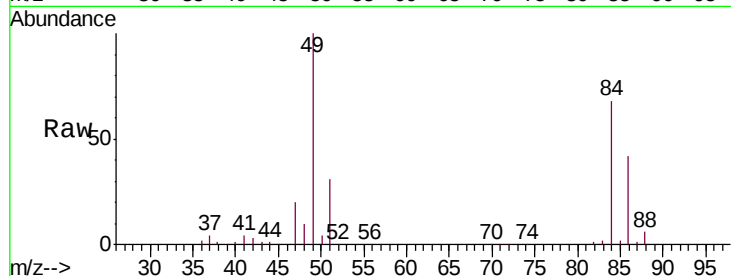




#16
Methylene chloride
Concen: 23.322 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

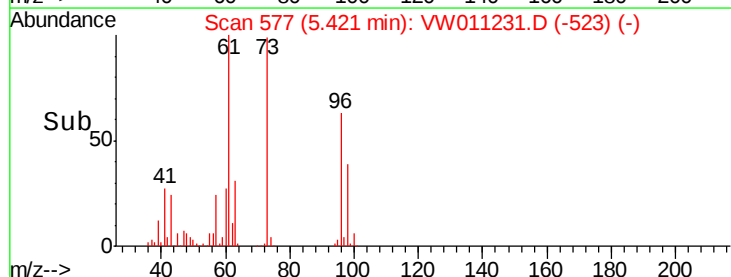
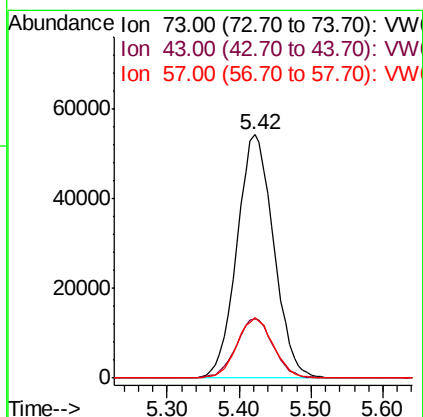
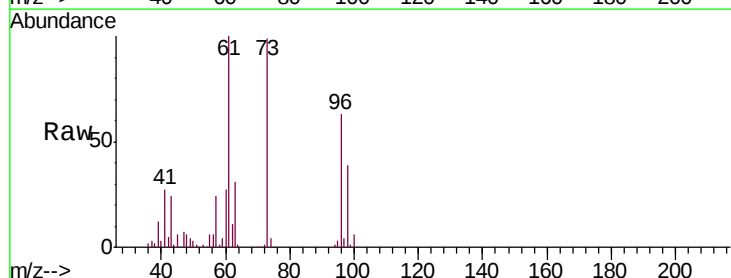
Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

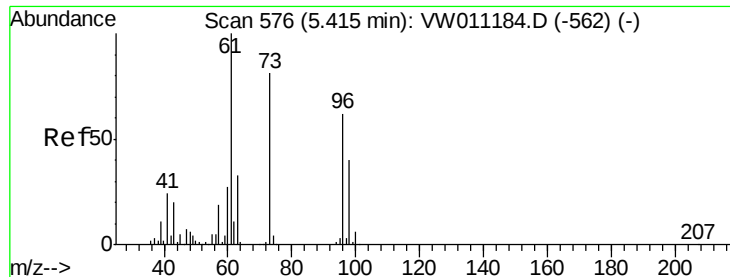
Tgt Ion: 84 Resp: 124071
Ion Ratio Lower Upper
84 100
49 146.9 102.5 190.3
86 62.4 46.4 86.2



#17
Methyl tert-butyl Ether
Concen: 26.089 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

Tgt Ion: 73 Resp: 192485
Ion Ratio Lower Upper
73 100
43 24.4 20.2 30.2
57 24.4 19.6 29.4

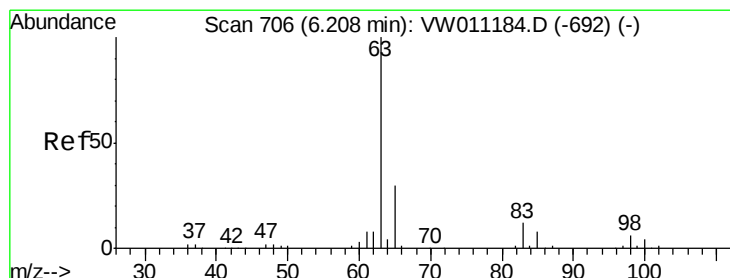
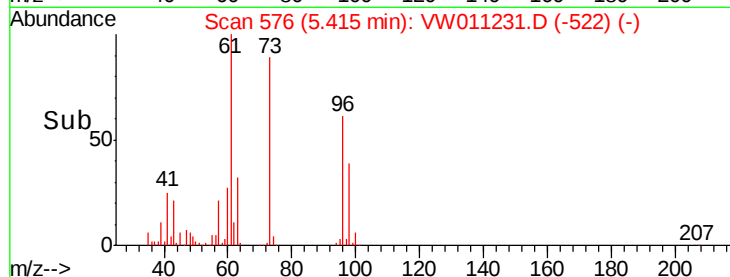
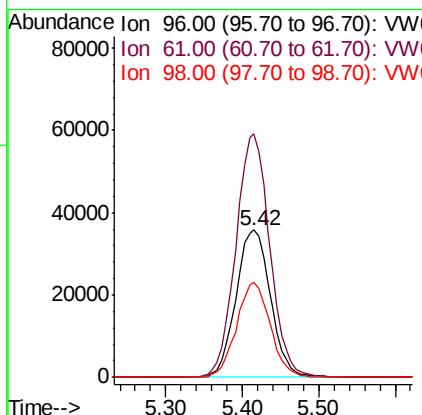
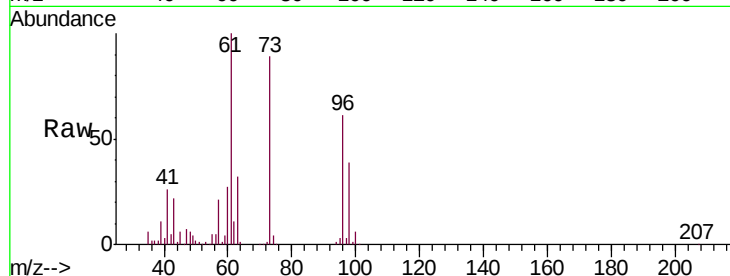




#18
 trans-1,2-Dichloroethene
 Concen: 23.317 ug/L
 RT: 5.42 min Scan# 576
 Delta R.T. 0.00 min
 Lab File: VW011231.D
 Acq: 12 Jul 2019 09:48

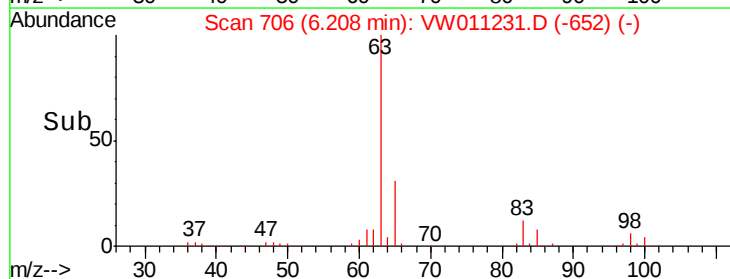
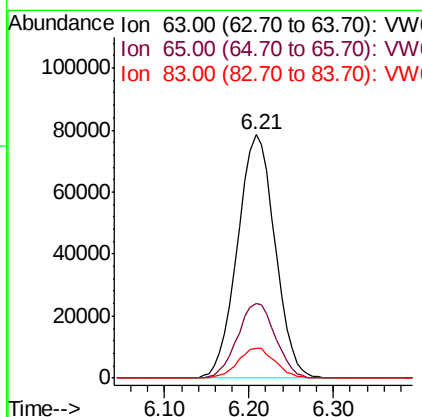
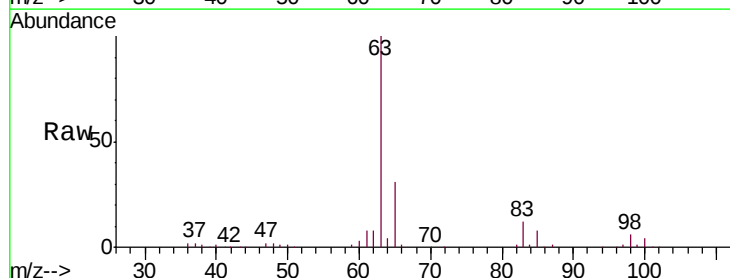
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02519

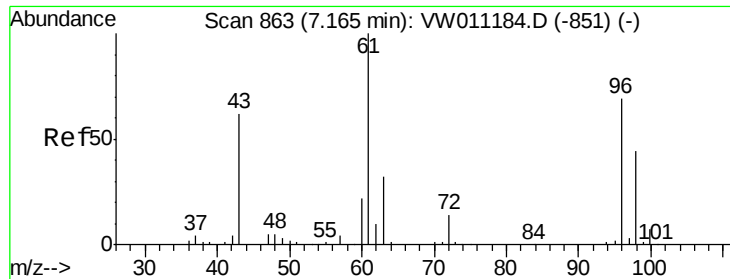
Tgt Ion: 96 Resp: 112097
 Ion Ratio Lower Upper
 96 100
 61 165.2 113.7 211.1
 98 64.7 43.3 80.3



#19
 1,1-Dichloroethane
 Concen: 24.267 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VW011231.D
 Acq: 12 Jul 2019 09:48

Tgt Ion: 63 Resp: 236836
 Ion Ratio Lower Upper
 63 100
 65 30.6 22.1 41.1
 83 12.3 9.0 16.6

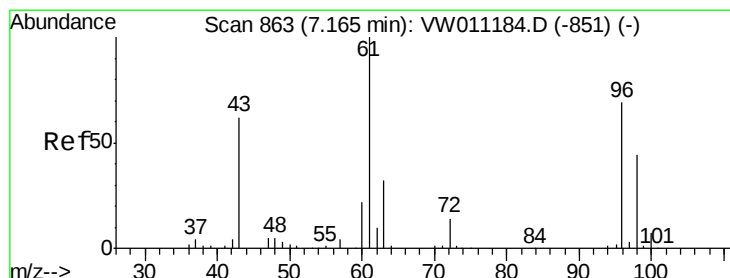
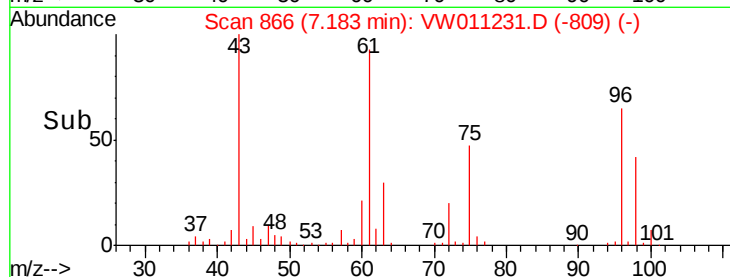
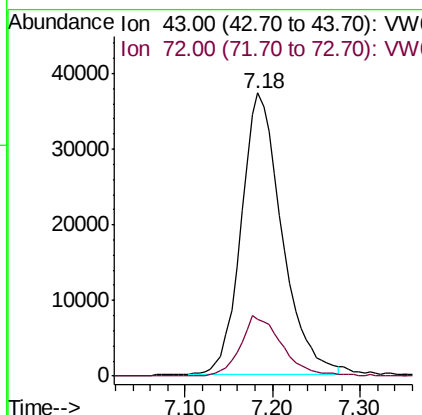
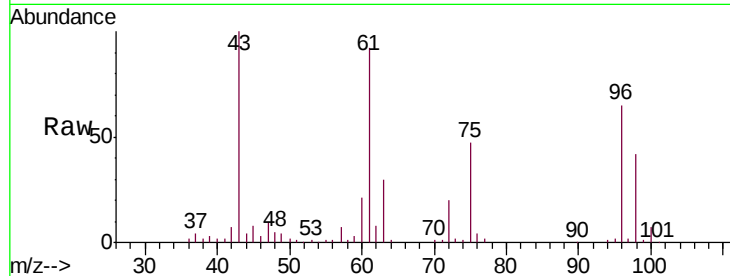




#21
2-Butanone
Concen: 43.719 ug/L
RT: 7.18 min Scan# 866
Delta R.T. 0.02 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

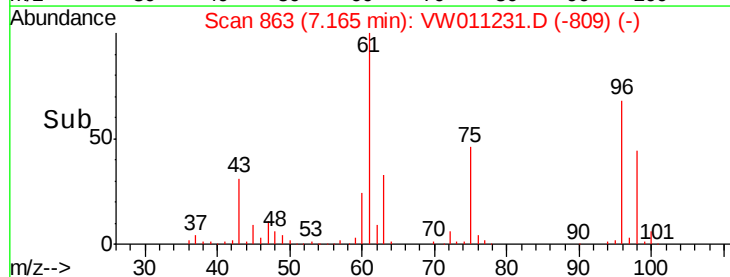
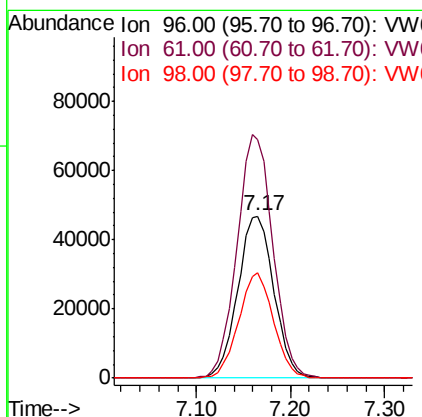
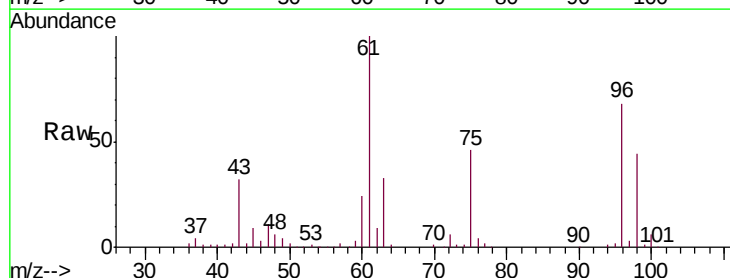
Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

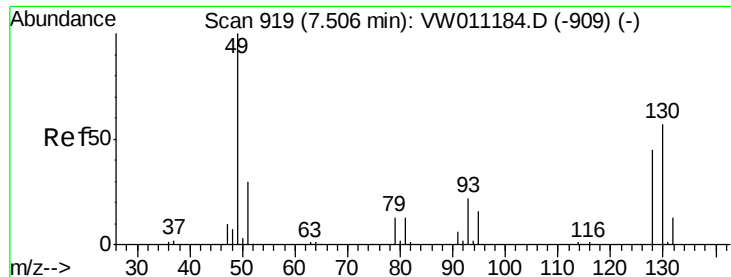
Tgt Ion: 43 Resp: 120037
Ion Ratio Lower Upper
43 100
72 21.6 11.2 33.6



#22
cis-1,2-Dichloroethene
Concen: 24.091 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

Tgt Ion: 96 Resp: 125363
Ion Ratio Lower Upper
96 100
61 147.6 103.2 191.6
98 64.9 44.8 83.2





#23

Bromochloromethane

Concen: 24.193 ug/L

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

Tgt Ion:128 Resp: 52825

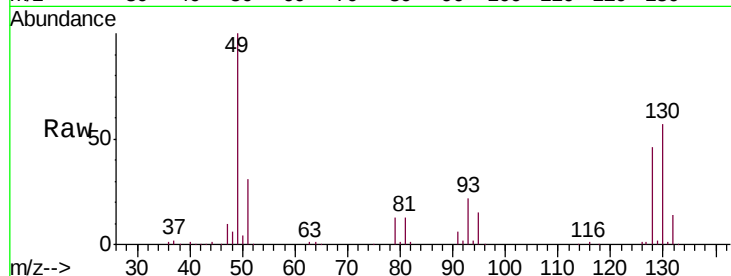
Ion Ratio Lower Upper

128 100

49 218.8 153.8 285.6

130 123.8 86.4 160.4

51 67.9 56.2 84.4

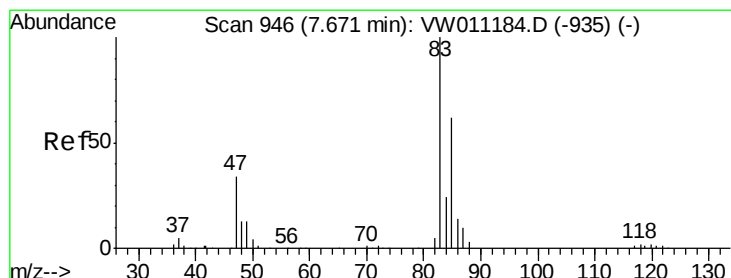
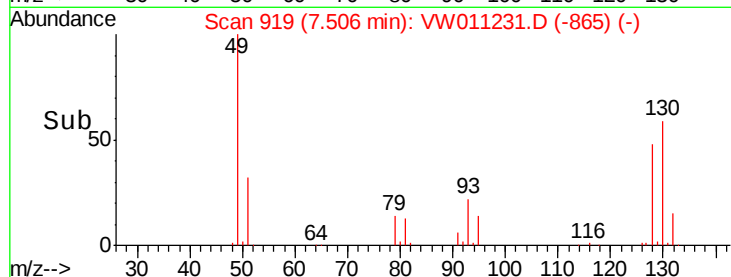
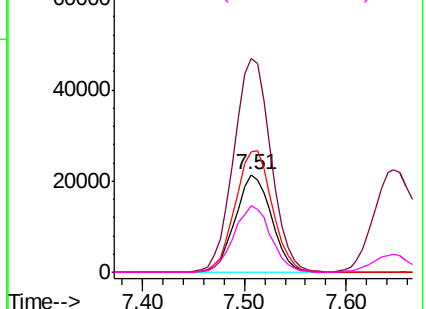


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 23.804 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW011231.D

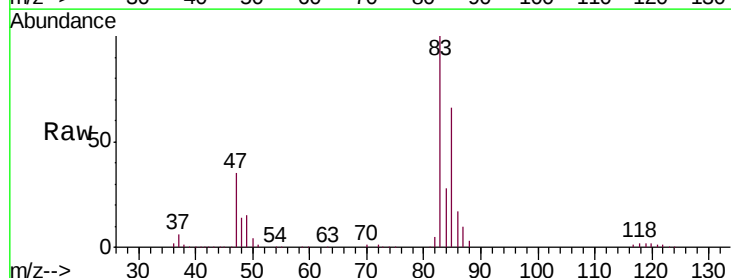
Acq: 12 Jul 2019 09:48

Tgt Ion: 83 Resp: 220056

Ion Ratio Lower Upper

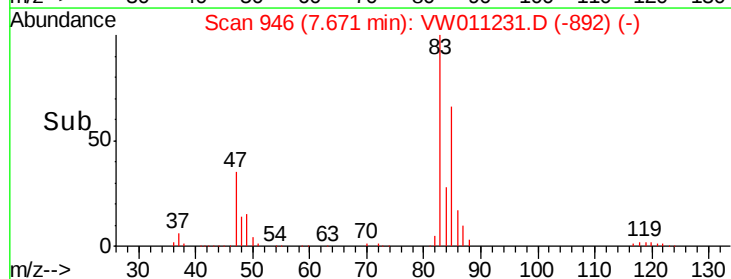
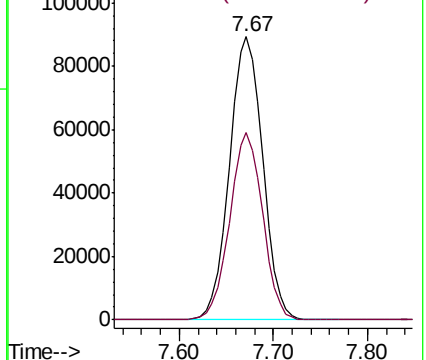
83 100

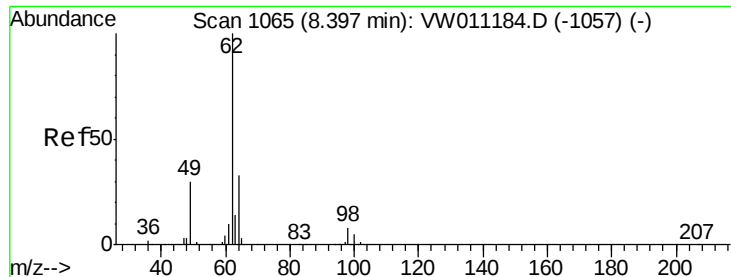
85 65.5 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 23.624 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

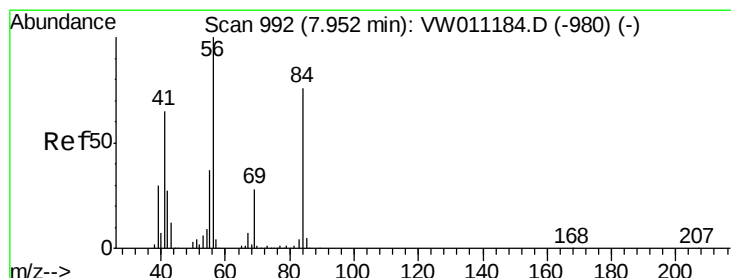
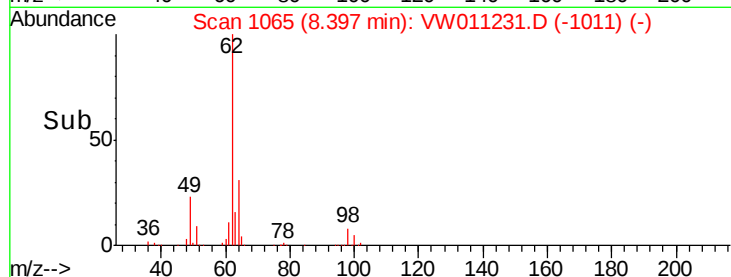
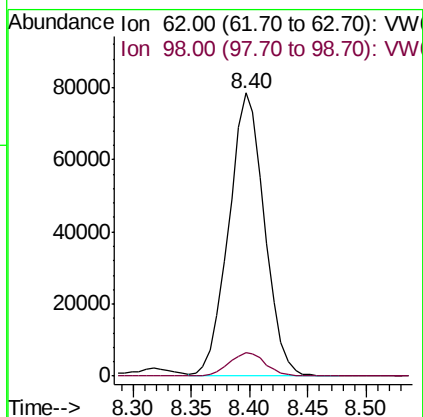
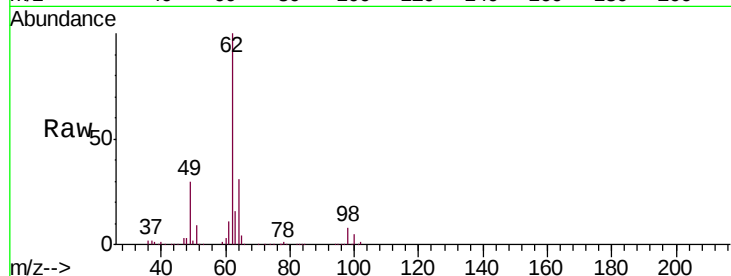
VSTD02519

Tgt Ion: 62 Resp: 166944

Ion Ratio Lower Upper

62 100

98 8.1 6.6 10.0



#30

Cyclohexane

Concen: 23.568 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

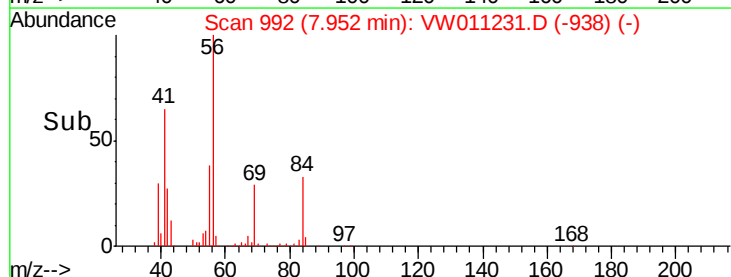
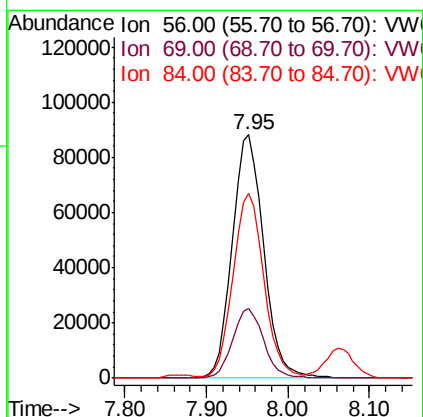
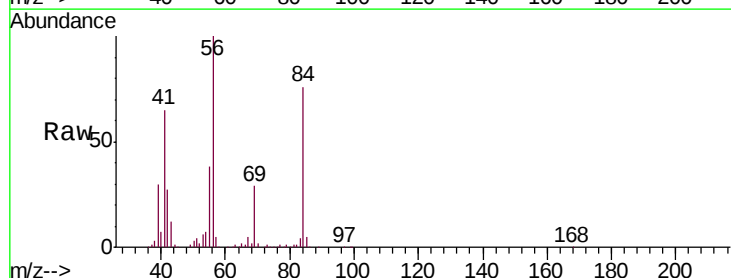
Tgt Ion: 56 Resp: 234889

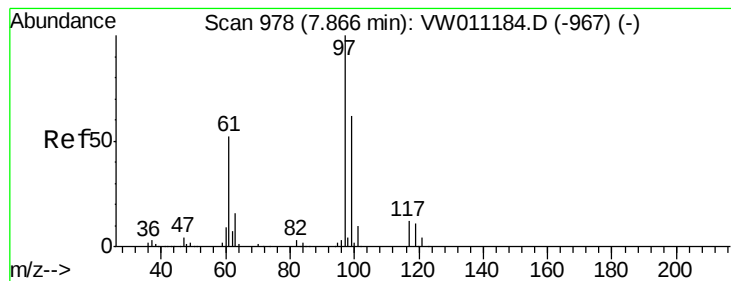
Ion Ratio Lower Upper

56 100

69 28.3 22.5 33.7

84 74.9 60.9 91.3





#31

1,1,1-Trichloroethane

Concen: 24.233 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

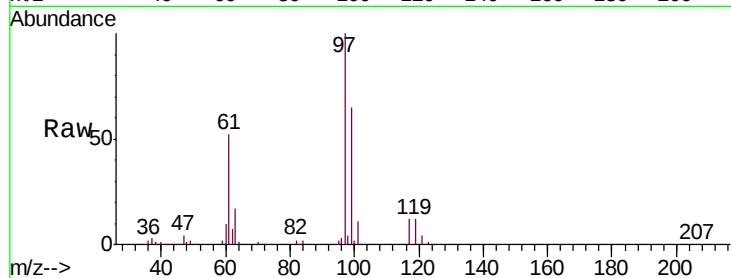
Tgt Ion: 97 Resp: 164865

Ion Ratio Lower Upper

97 100

99 63.9 50.6 75.8

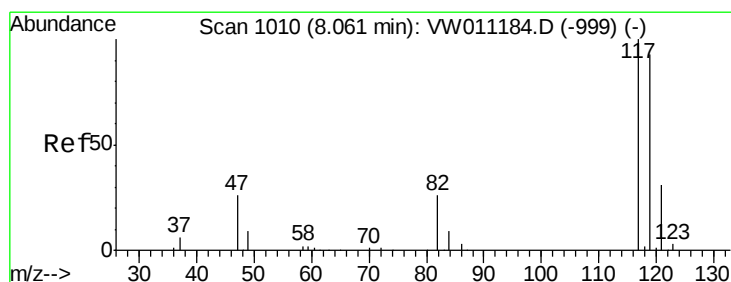
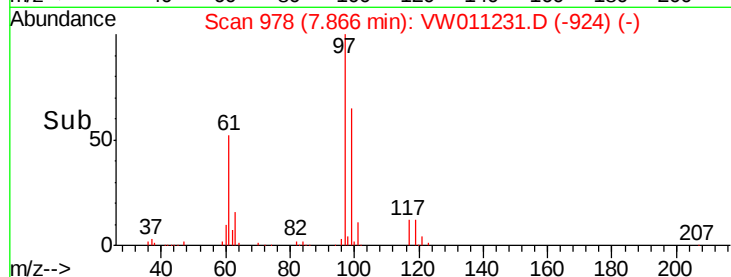
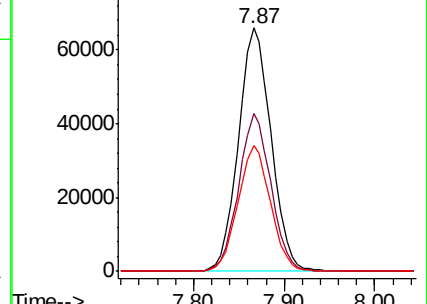
61 51.3 40.9 61.3



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: 24.168 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW011231.D

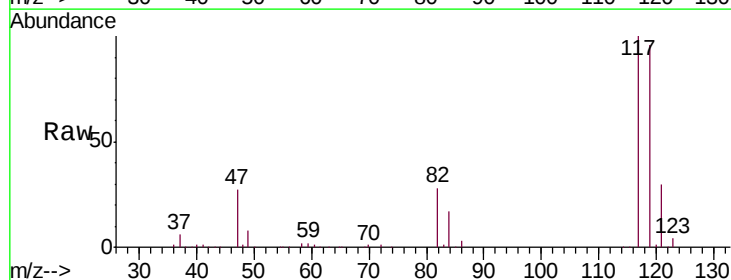
Acq: 12 Jul 2019 09:48

Tgt Ion: 117 Resp: 154204

Ion Ratio Lower Upper

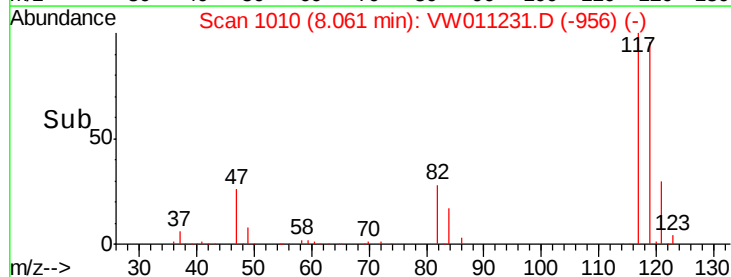
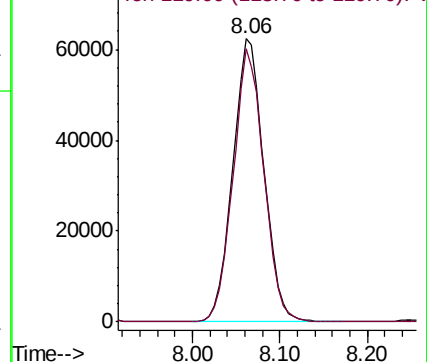
117 100

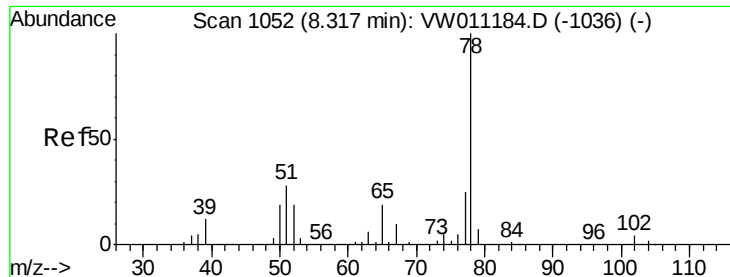
119 95.0 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 23.999 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

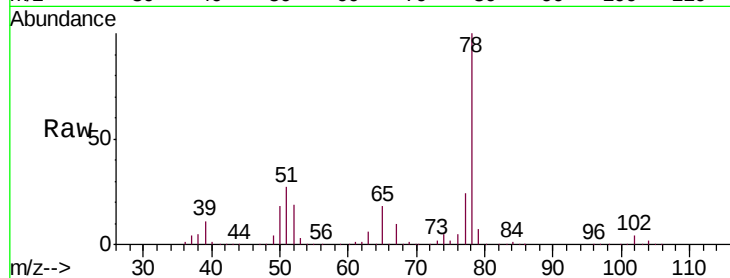
Instrument :

MSVOA_W

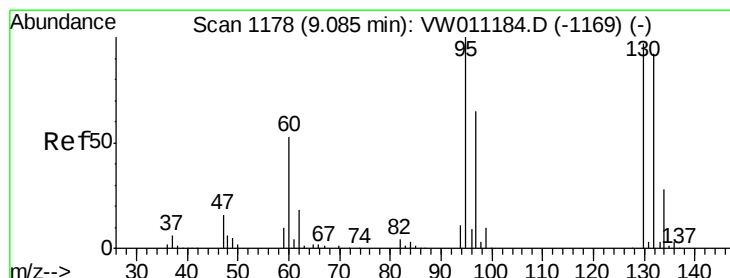
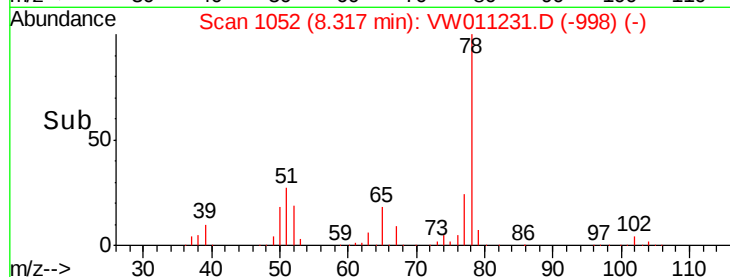
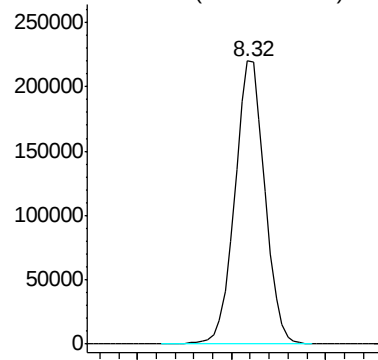
ClientSampleId :

VSTD02519

Tgt Ion: 78 Resp: 491672



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 23.727 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Tgt Ion: 95 Resp: 122666

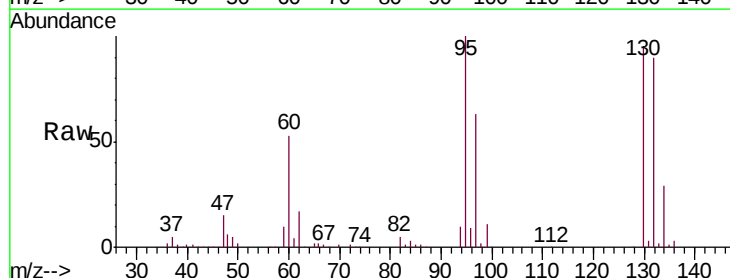
Ion	Ratio	Lower	Upper
95	100		
97	63.7	45.4	84.2
132	91.2	65.0	120.8
130	96.9	67.8	126.0

95 100

97 63.7 45.4 84.2

132 91.2 65.0 120.8

130 96.9 67.8 126.0

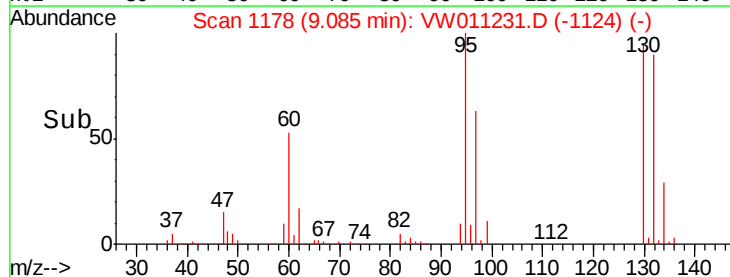
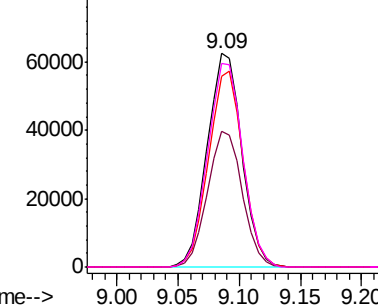


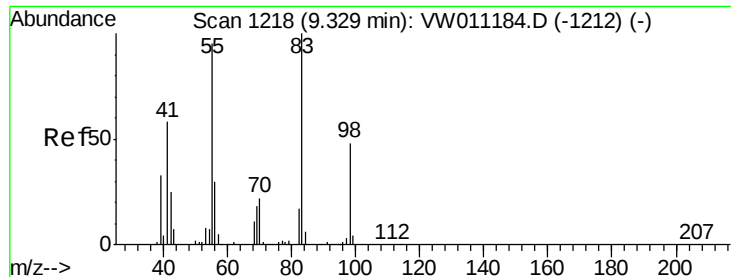
Abundance Ion 95.00 (94.70 to 95.70): VW

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

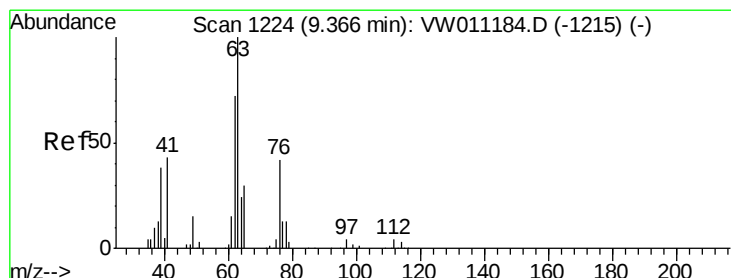
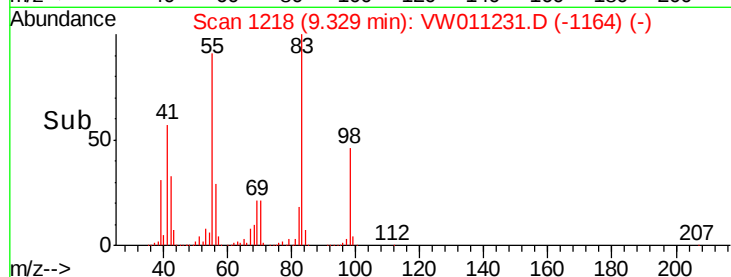
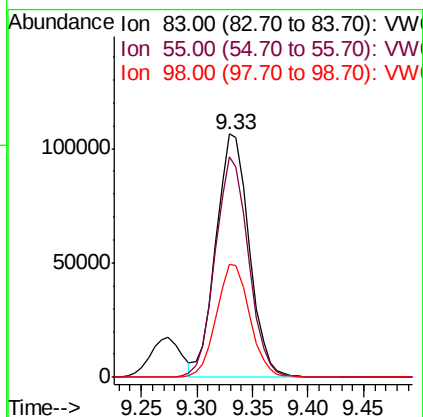
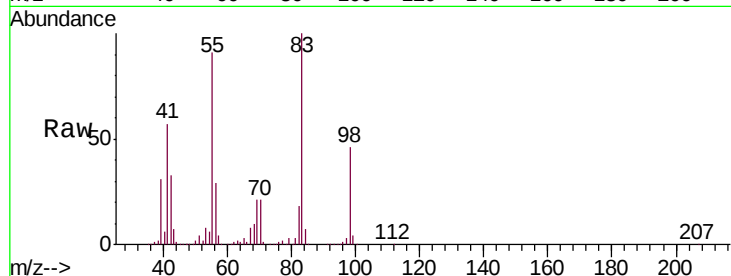




#36
Methylcyclohexane
Concen: 23.783 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

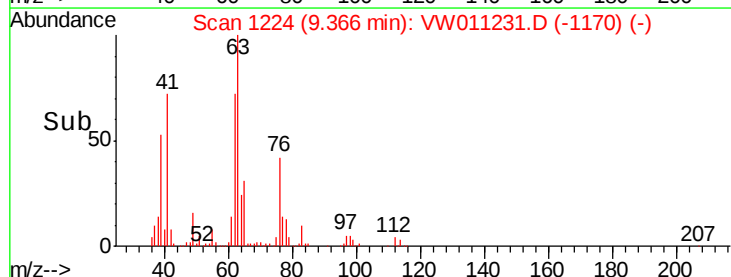
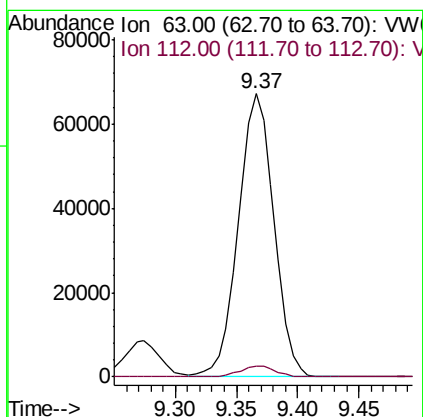
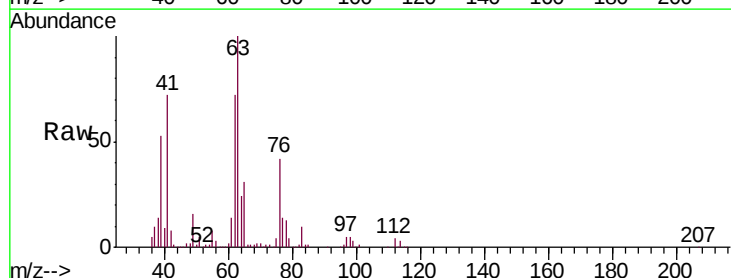
Instrument :
MSVOA_W
ClientSampled :
VSTD02519

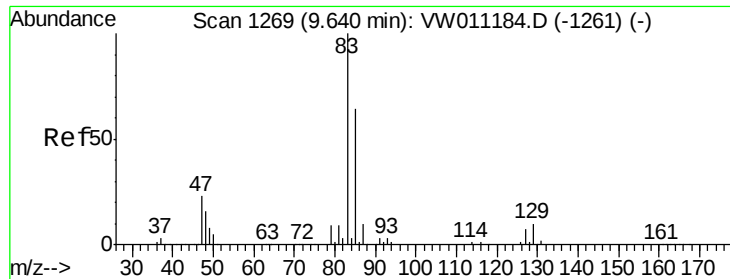
Tgt Ion: 83 Resp: 221271
Ion Ratio Lower Upper
83 100
55 90.1 72.2 108.4
98 46.6 38.2 57.4



#40
1,2-Dichloropropane
Concen: 24.122 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

Tgt Ion: 63 Resp: 135416
Ion Ratio Lower Upper
63 100
112 4.0 3.0 4.6





#41

Bromodichloromethane

Concen: 24.397 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

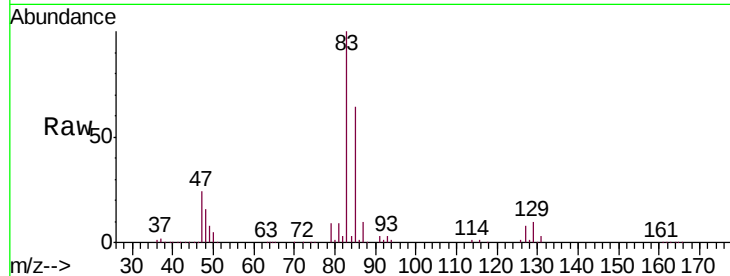
Tgt Ion: 83 Resp: 157907

Ion Ratio Lower Upper

83 100

85 64.0 45.5 84.5

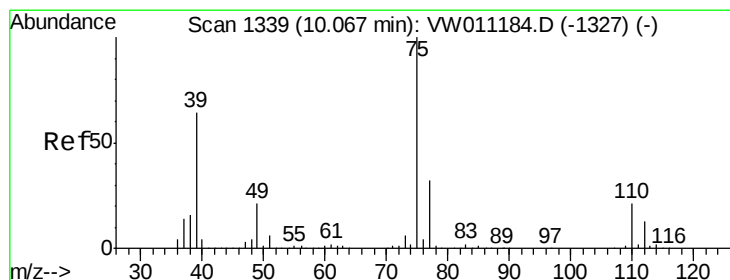
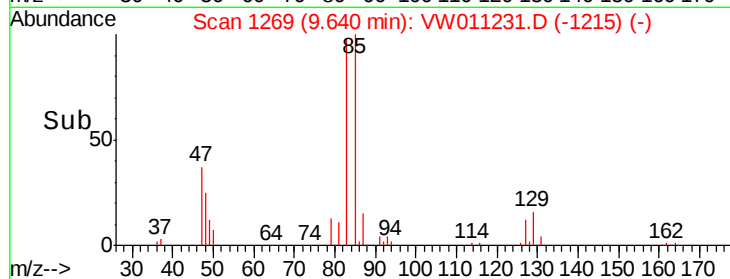
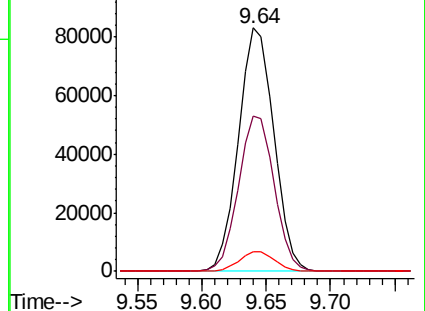
127 7.8 5.8 8.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#42

cis-1,3-Dichloropropene

Concen: 25.038 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW011231.D

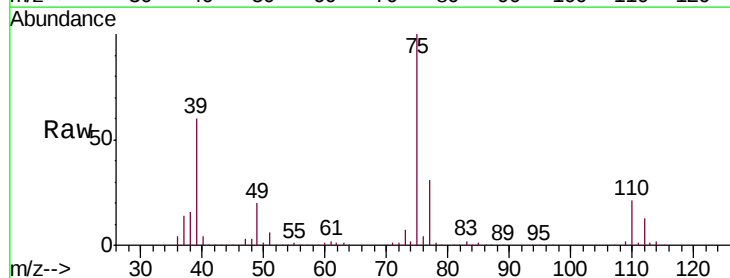
Acq: 12 Jul 2019 09:48

Tgt Ion: 75 Resp: 207396

Ion Ratio Lower Upper

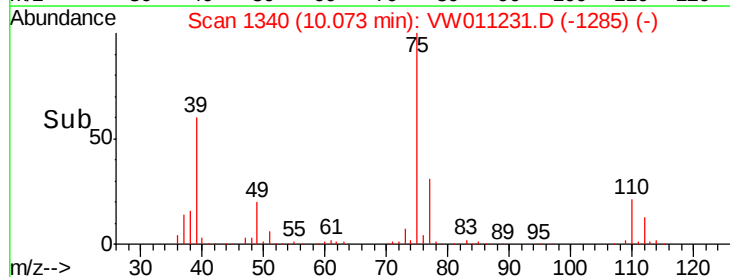
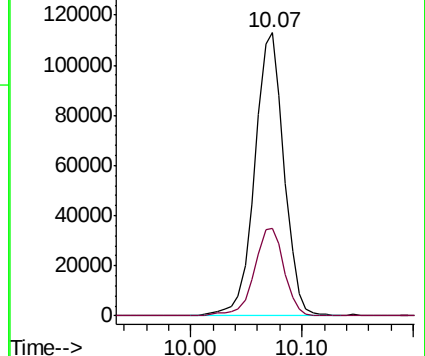
75 100

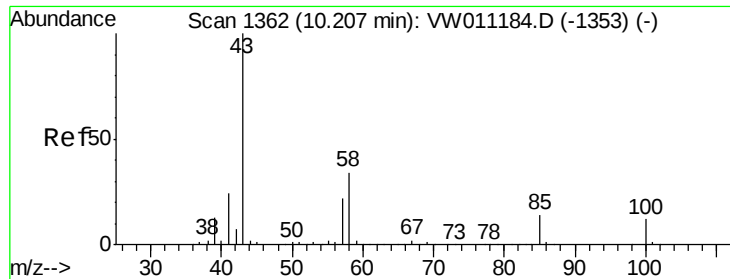
77 31.1 21.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

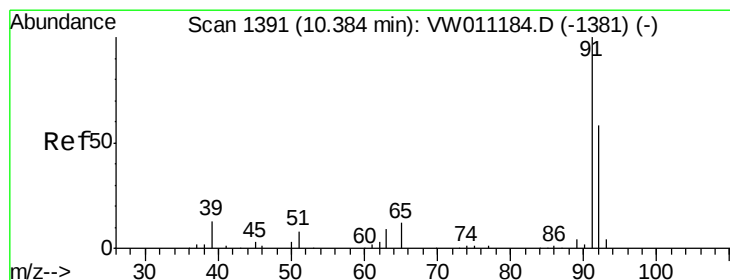
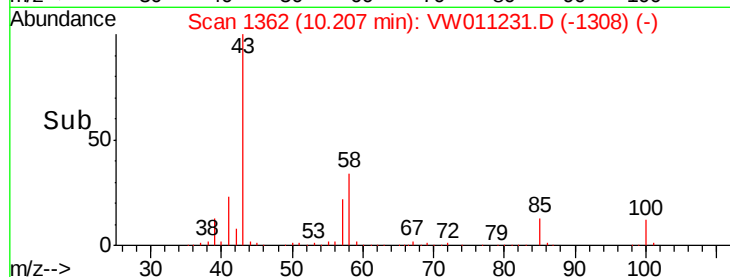
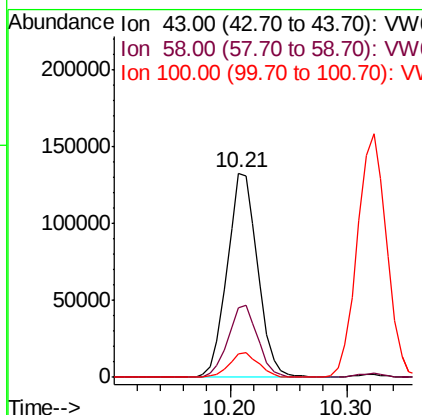
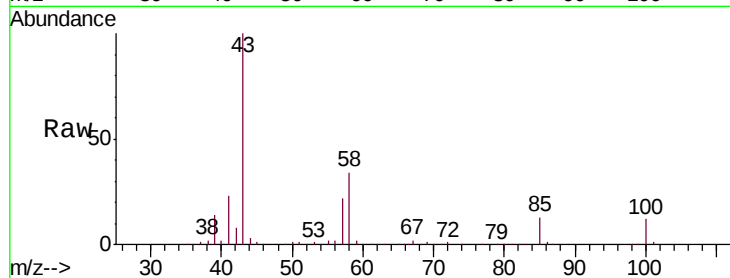




#43
4-Methyl-2-pentanone
Concen: 46.163 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

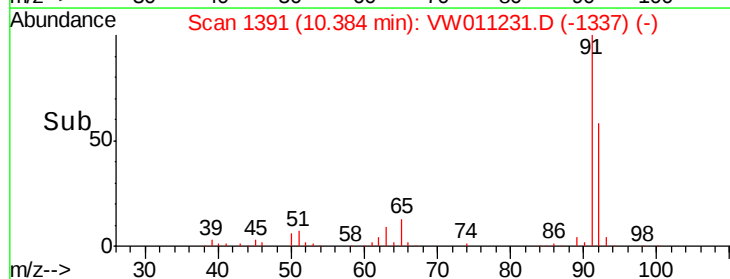
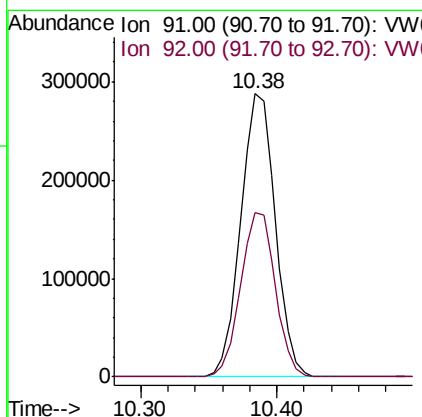
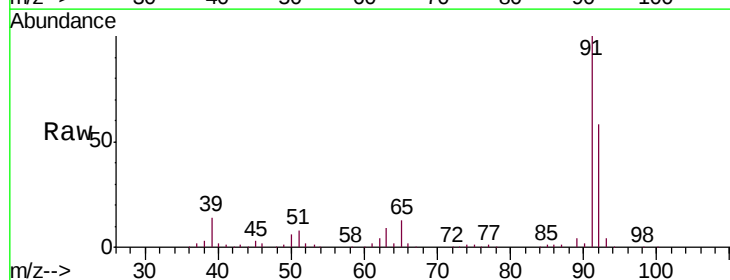
Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

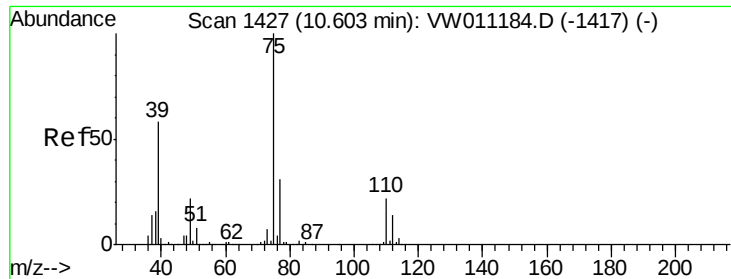
Tgt Ion: 43 Resp: 240237
Ion Ratio Lower Upper
43 100
58 34.7 28.1 42.1
100 11.9 9.3 13.9



#44
Toluene
Concen: 24.142 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

Tgt Ion: 91 Resp: 511936
Ion Ratio Lower Upper
91 100
92 57.8 40.8 75.8





#45

trans-1,3-Dichloropropene

Concen: 24.964 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

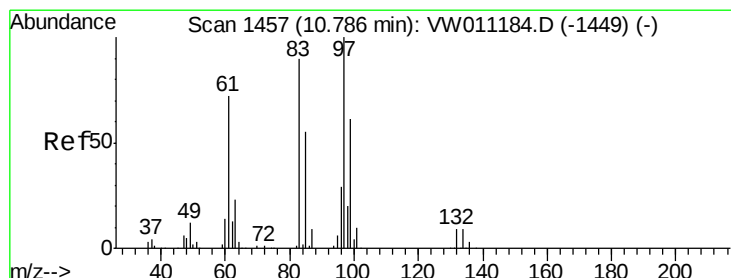
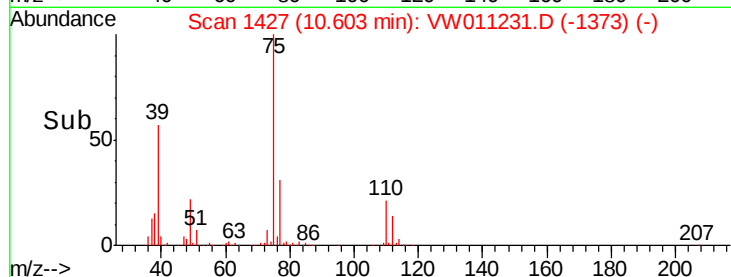
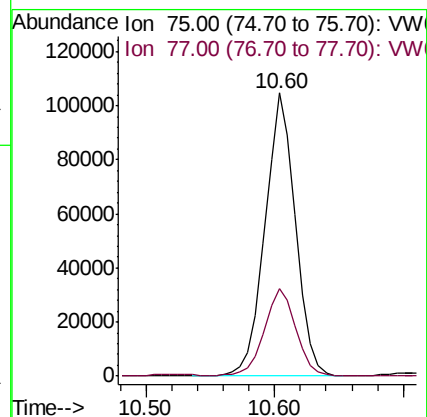
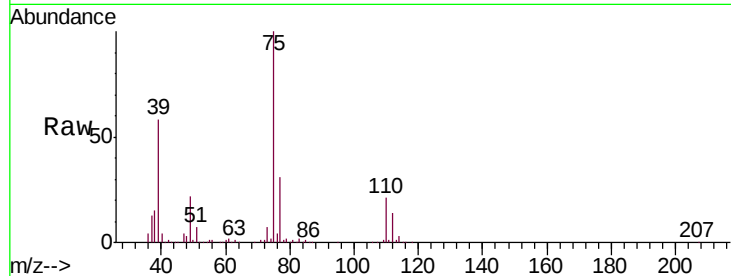
VSTD02519

Tgt Ion: 75 Resp: 171101

Ion Ratio Lower Upper

75 100

77 30.7 22.3 41.5



#46

1,1,2-Trichloroethane

Concen: 23.961 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Tgt Ion: 97 Resp: 93151

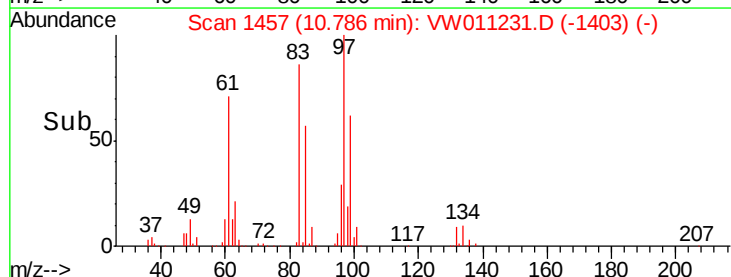
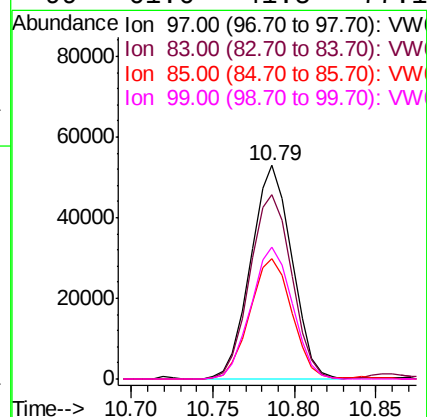
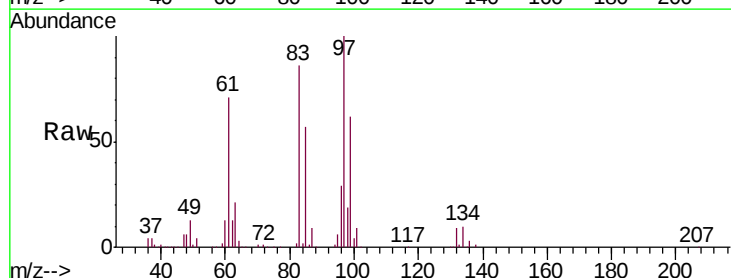
Ion Ratio Lower Upper

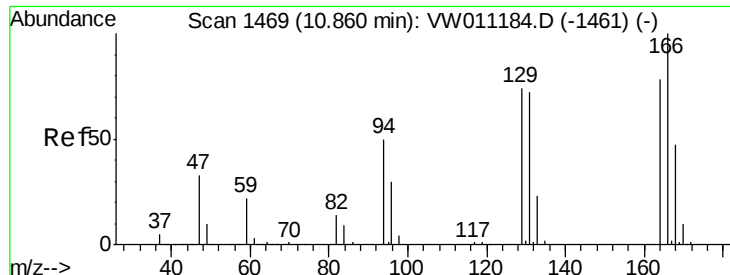
97 100

83 86.4 63.1 117.3

85 56.5 39.0 72.4

99 61.6 41.5 77.1





#47

Tetrachloroethene

Concen: 23.167 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

Tgt Ion:164 Resp: 90519

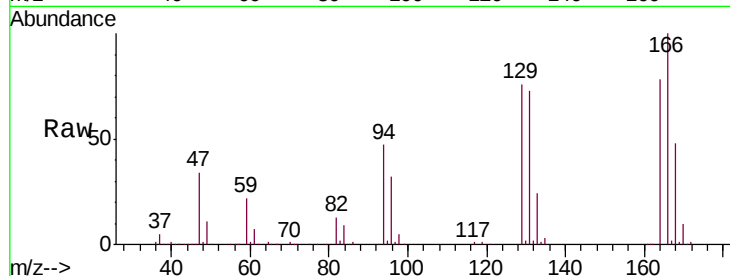
Ion Ratio Lower Upper

164 100

129 97.4 68.5 127.1

131 92.6 64.8 120.4

166 127.7 87.9 163.3

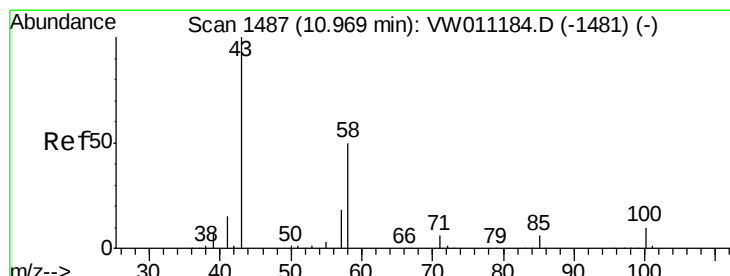
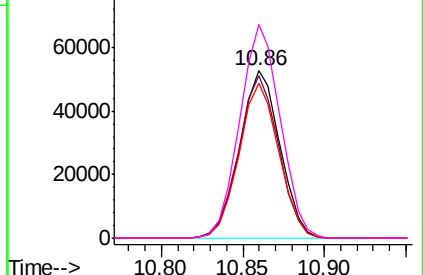
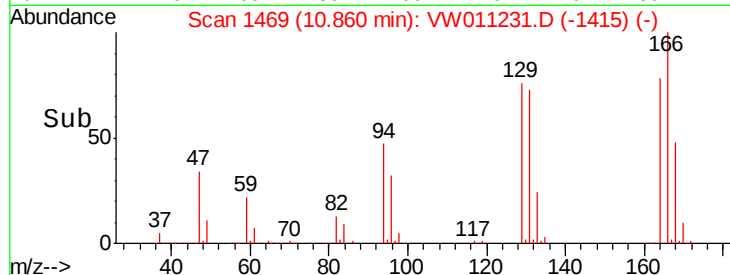


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

2-Hexanone

Concen: 46.767 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Tgt Ion: 43 Resp: 177154

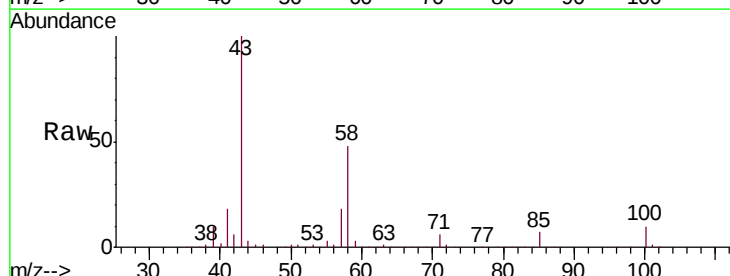
Ion Ratio Lower Upper

43 100

58 49.0 38.4 57.6

57 17.2 13.3 19.9

100 9.5 7.3 10.9

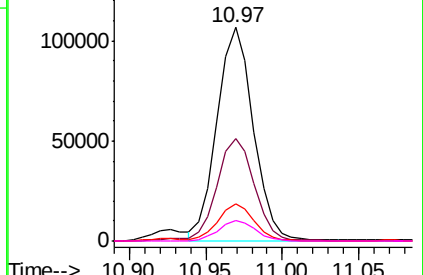
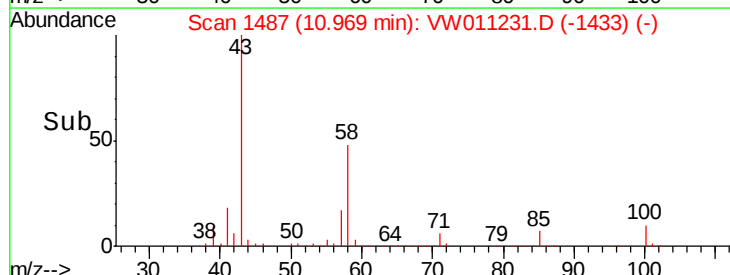


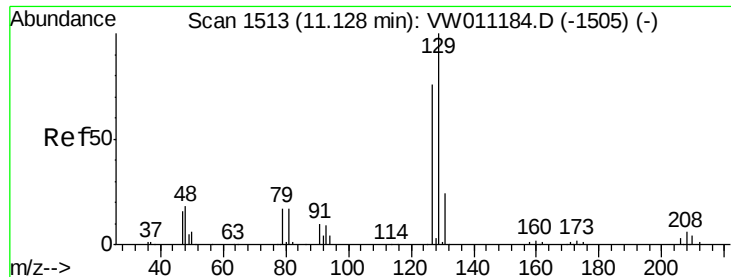
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#50

Dibromochloromethane

Concen: 24.950 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

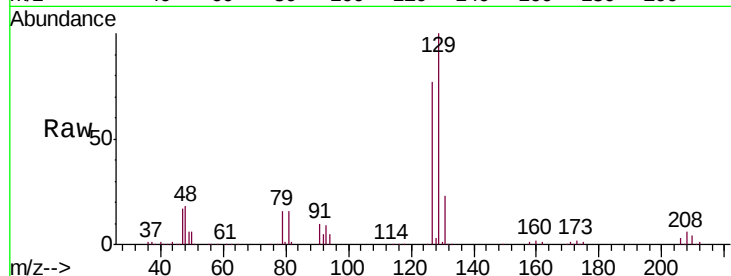
VSTD02519

Tgt Ion:129 Resp: 103288

Ion Ratio Lower Upper

129 100

127 77.1 53.3 99.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13

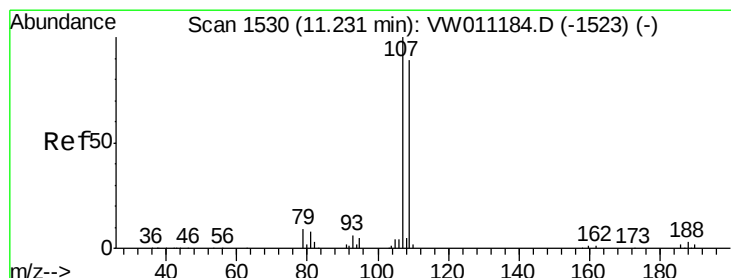
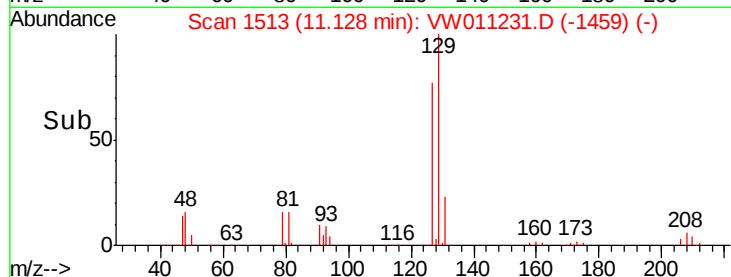
60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20



#51

1,2-Dibromoethane

Concen: 24.136 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

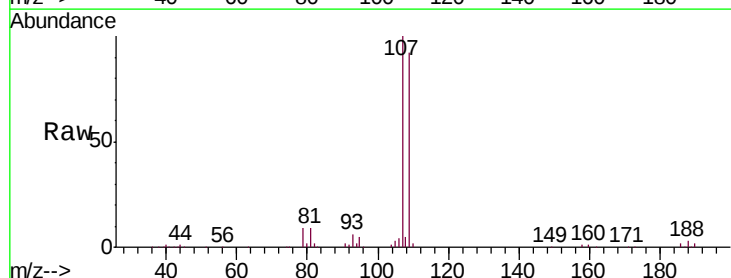
Tgt Ion:107 Resp: 90603

Ion Ratio Lower Upper

107 100

109 91.8 64.3 119.3

188 3.4 3.2 4.8



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

11.23

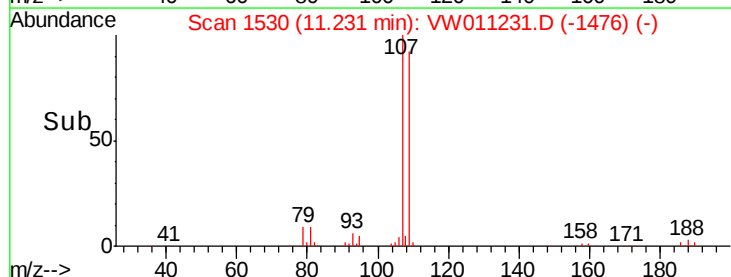
60000

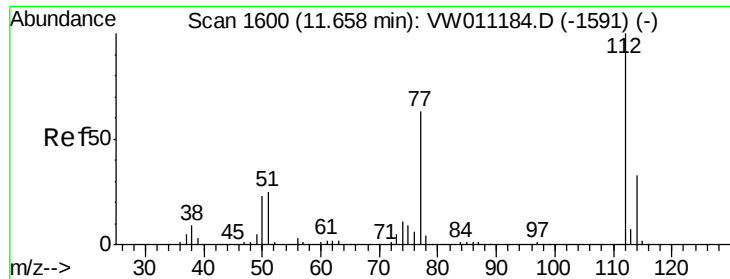
40000

20000

0

Time--> 11.15 11.20 11.25 11.30





#52

Chlorobenzene

Concen: 24.046 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

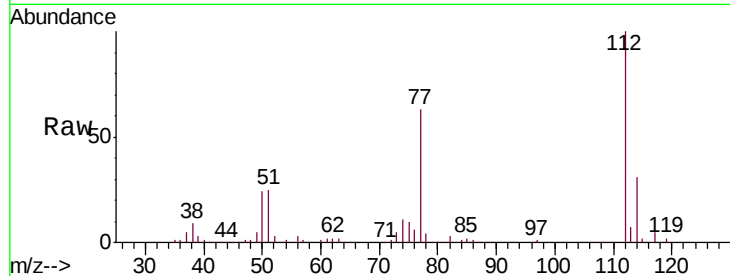
Tgt Ion: 112 Resp: 311517

Ion Ratio Lower Upper

112 100

77 63.1 51.2 76.8

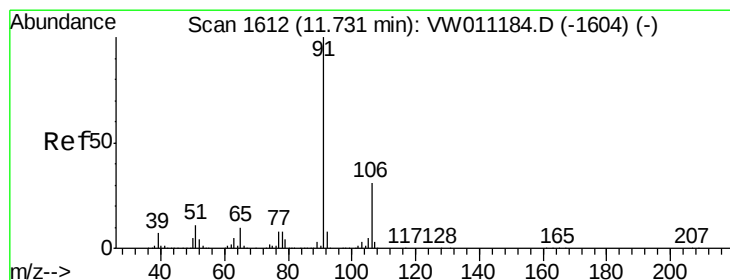
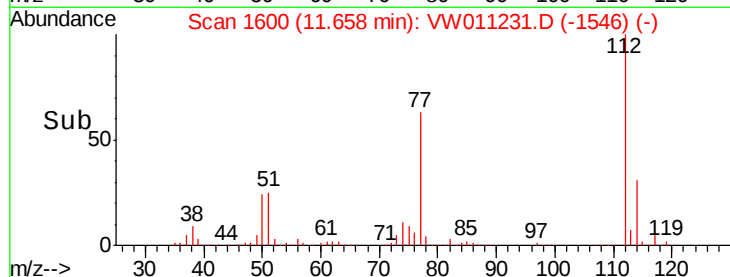
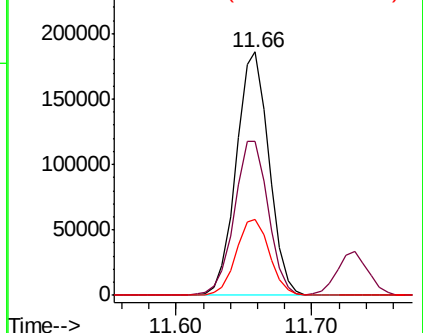
114 31.3 22.0 40.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 23.970 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW011231.D

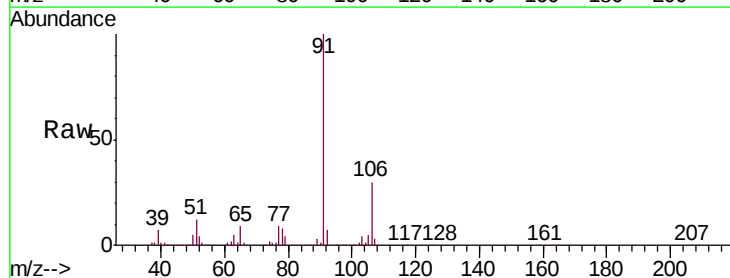
Acq: 12 Jul 2019 09:48

Tgt Ion: 91 Resp: 576547

Ion Ratio Lower Upper

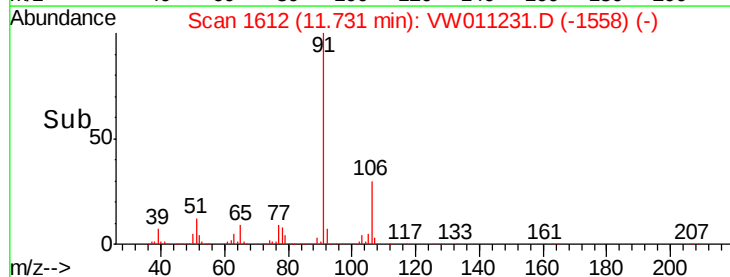
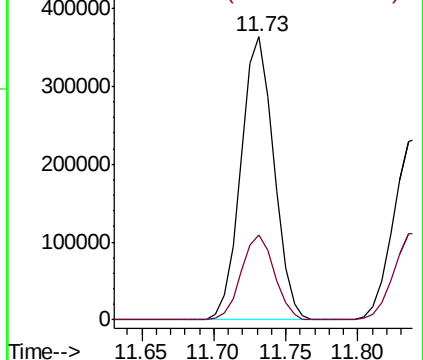
91 100

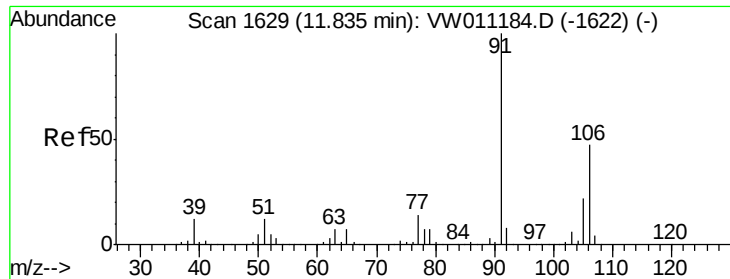
106 30.1 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

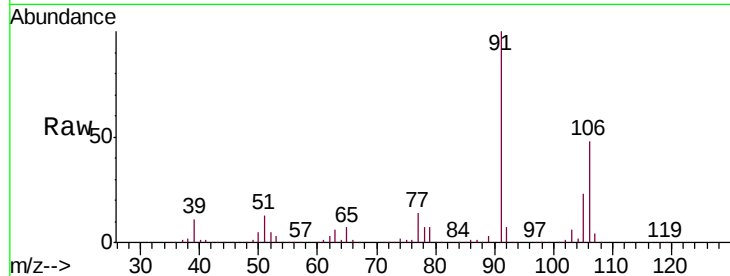




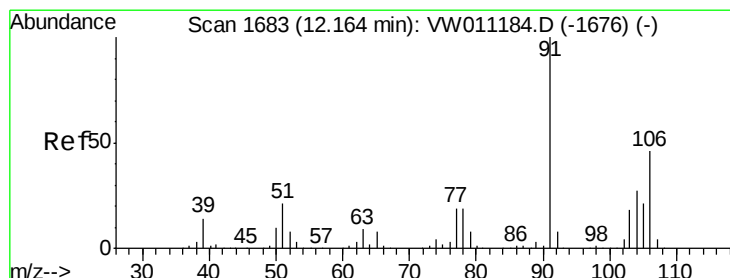
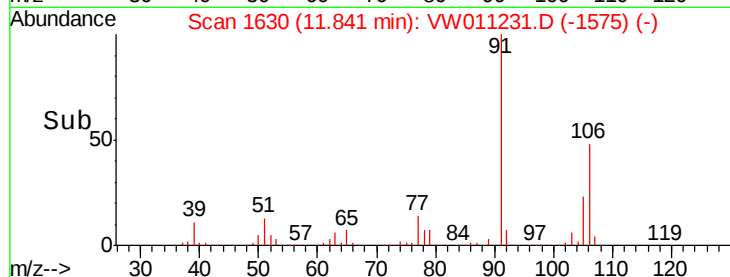
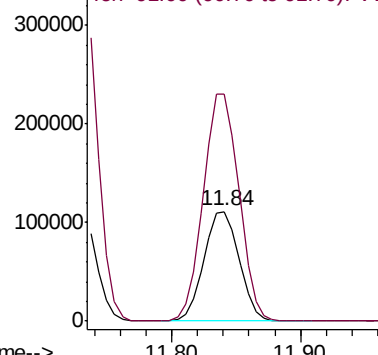
#54
m,p-Xylene
Concen: 24.316 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

Tgt Ion:106 Resp: 212347
Ion Ratio Lower Upper
106 100
91 207.4 142.6 264.8

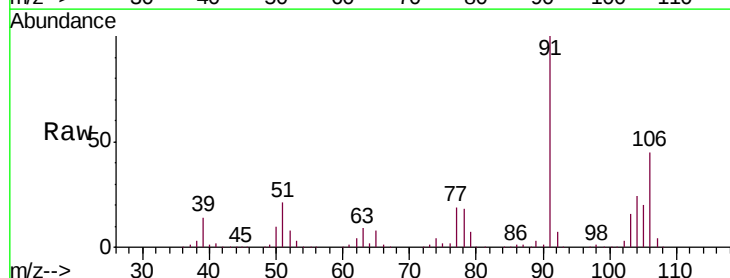


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

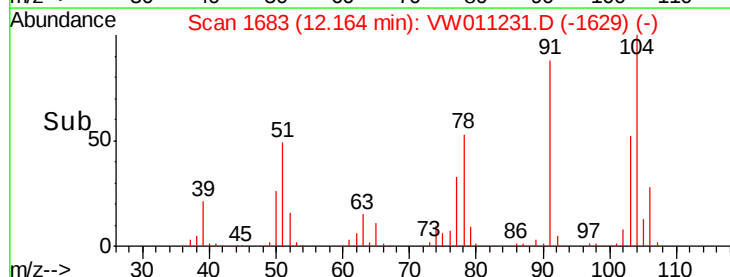
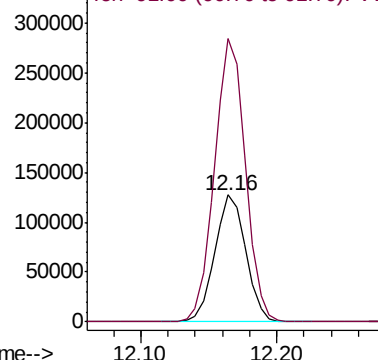


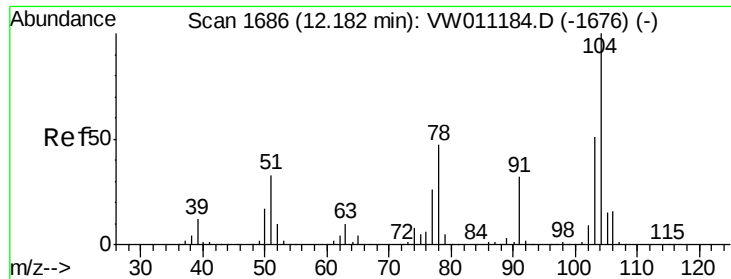
#55
o-xylene
Concen: 24.421 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

Tgt Ion:106 Resp: 202878
Ion Ratio Lower Upper
106 100
91 223.1 154.6 287.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 24.812 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampled :

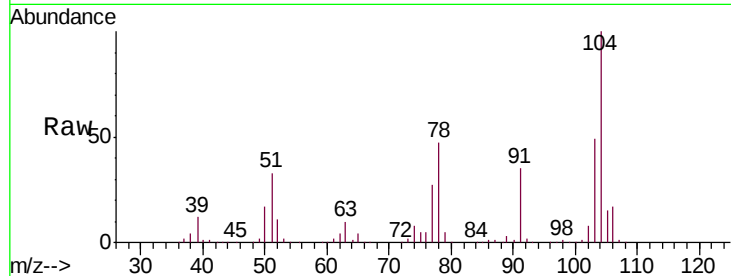
VSTD02519

Tgt Ion:104 Resp: 353602

Ion Ratio Lower Upper

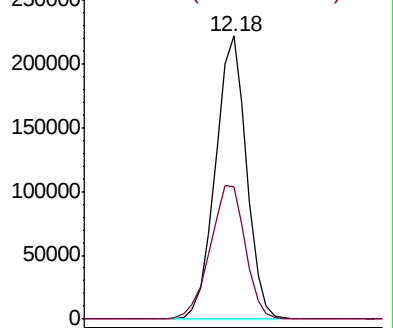
104 100

78 46.8 33.7 62.7

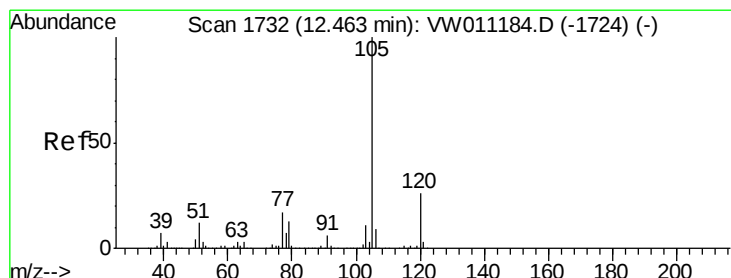
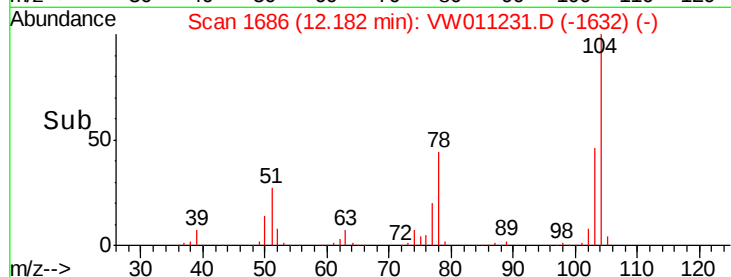


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



Time-->



#57

Isopropylbenzene

Concen: 24.320 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

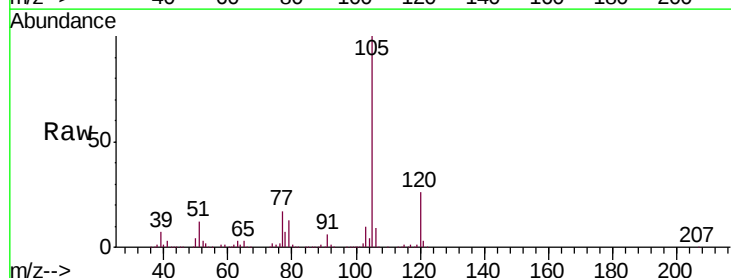
Tgt Ion:105 Resp: 551522

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

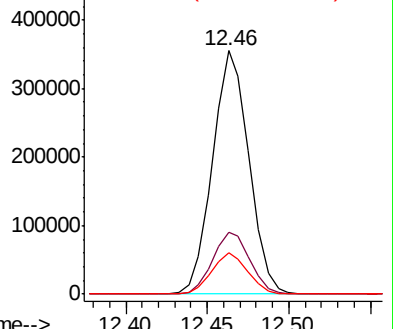
77 16.7 13.5 20.3



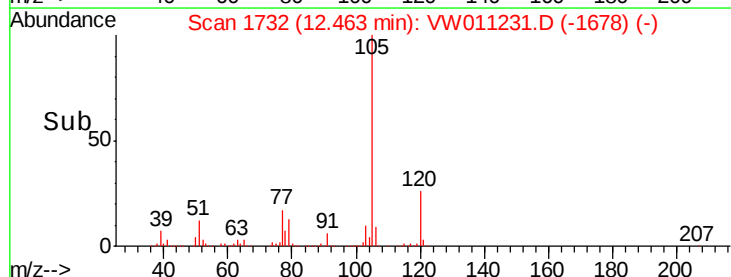
Abundance Ion 105.00 (104.70 to 105.70): V

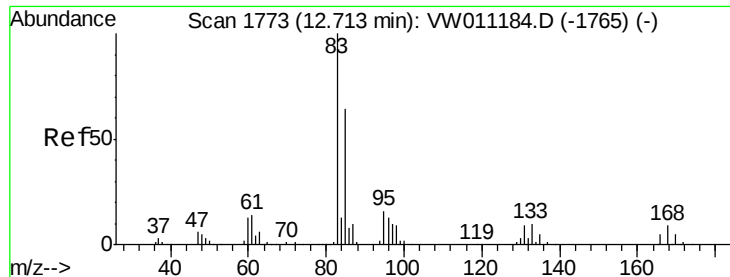
Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW



Time-->





#58

1,1,2,2-Tetrachloroethane

Concen: 24.073 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

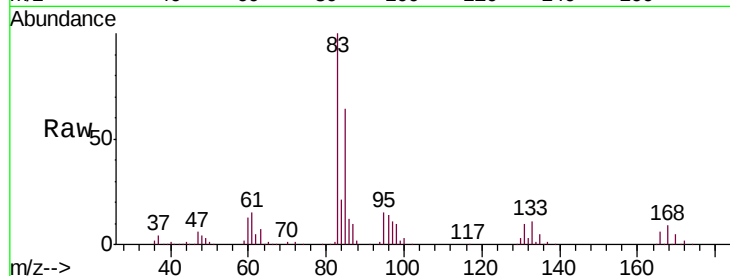
Tgt Ion: 83 Resp: 124503

Ion Ratio Lower Upper

83 100

85 63.5 44.0 81.6

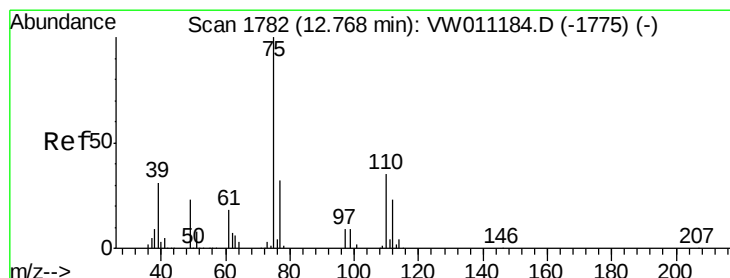
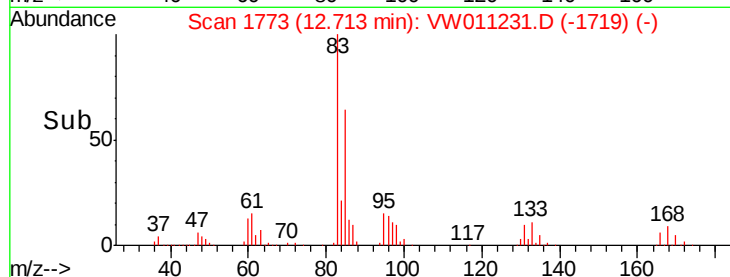
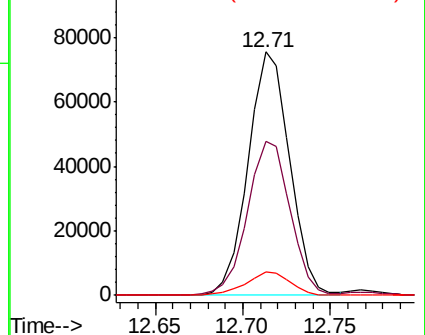
131 9.6 6.7 10.1



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): VW



#59

1,2,3-Trichloropropane

Concen: 23.745 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011231.D

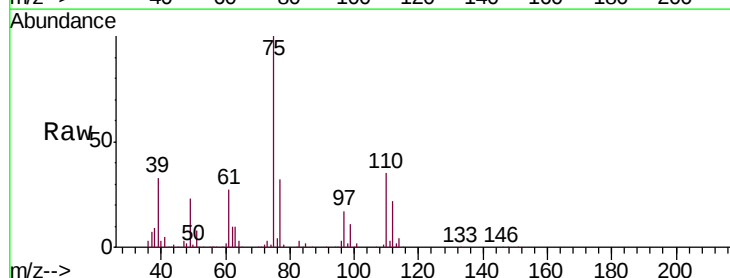
Acq: 12 Jul 2019 09:48

Tgt Ion: 75 Resp: 94308

Ion Ratio Lower Upper

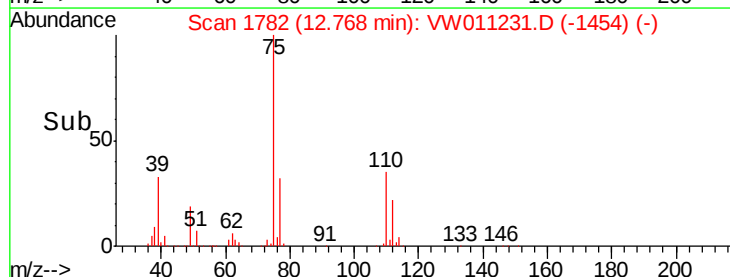
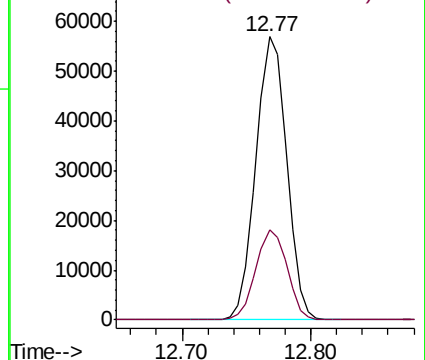
75 100

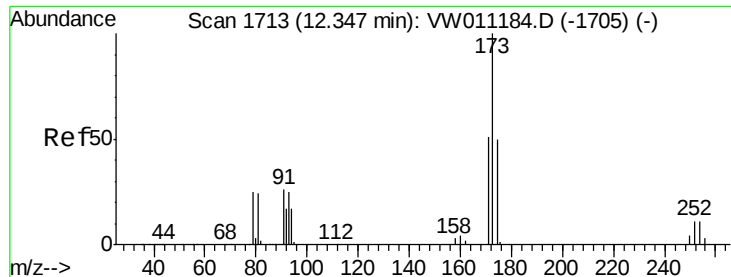
77 32.2 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#62

Bromoform

Concen: 24.721 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

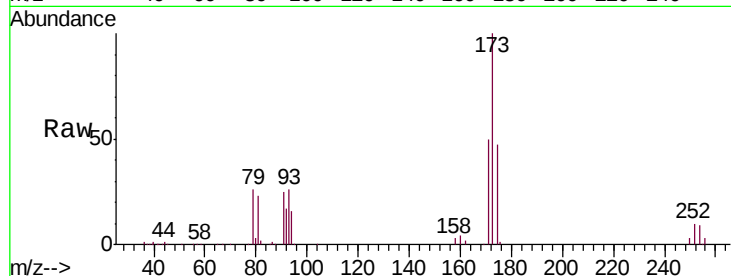
Tgt Ion:173 Resp: 59523

Ion Ratio Lower Upper

173 100

175 48.2 39.0 58.6

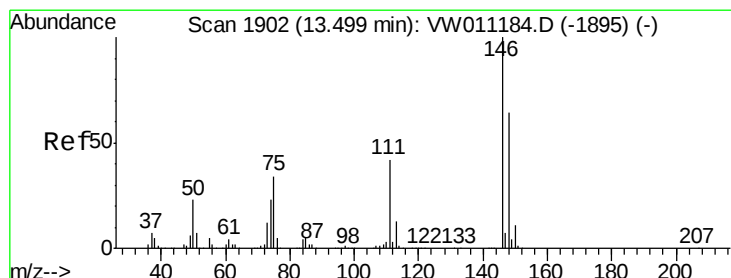
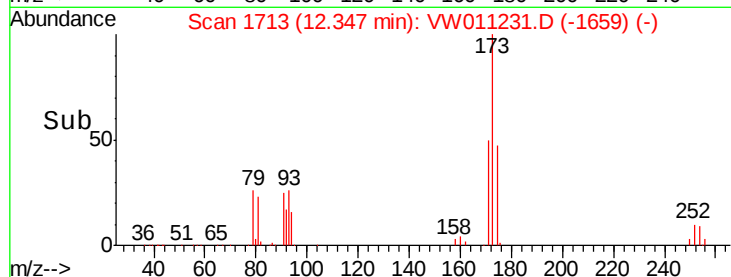
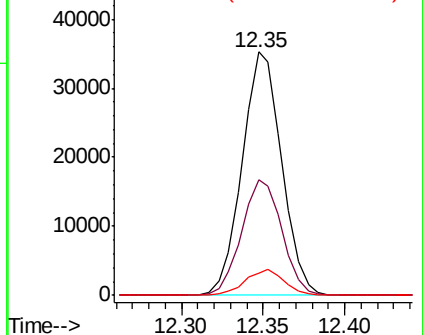
254 10.4 8.5 12.7



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 24.079 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

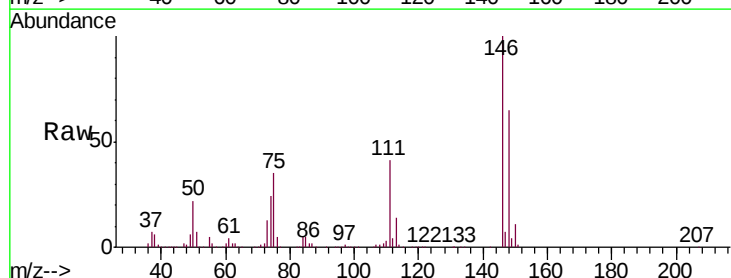
Tgt Ion:146 Resp: 239341

Ion Ratio Lower Upper

146 100

111 41.2 29.0 53.8

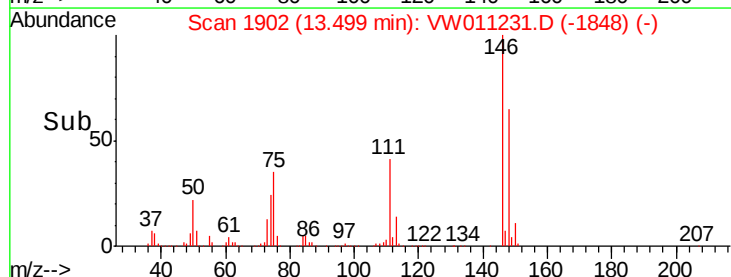
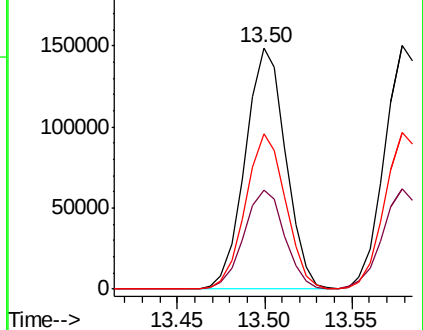
148 64.6 44.4 82.5

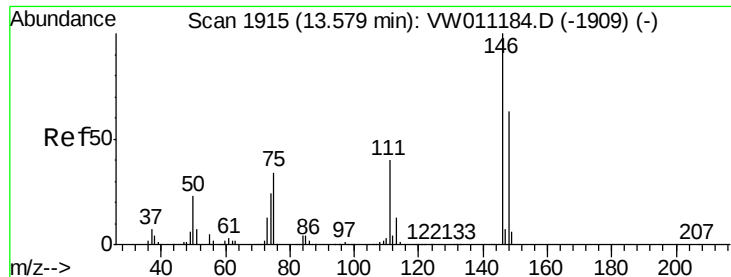


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 23.693 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

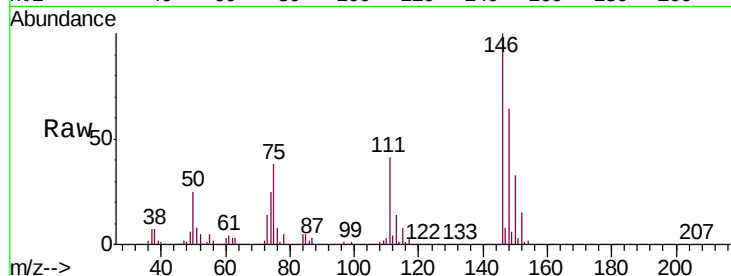
Tgt Ion:146 Resp: 241082

Ion Ratio Lower Upper

146 100

111 41.3 27.5 51.1

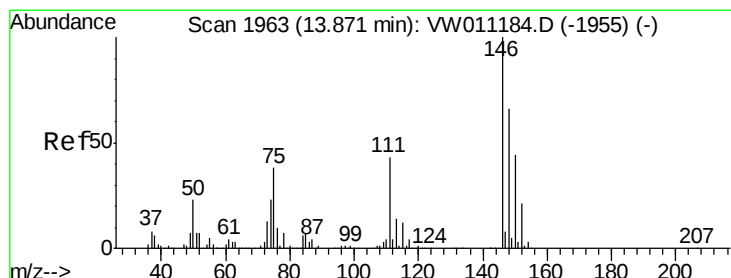
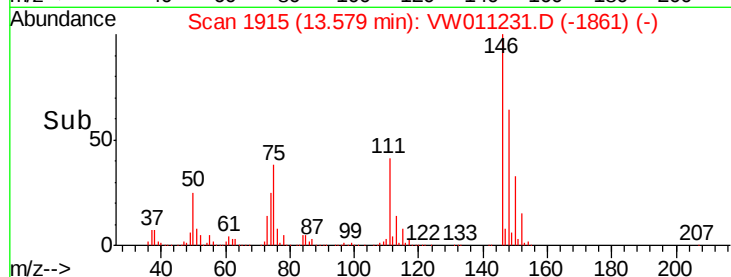
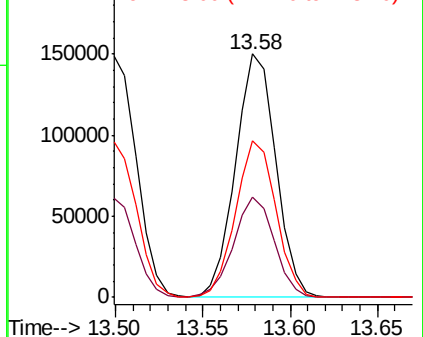
148 64.1 43.8 81.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 24.227 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW011231.D

Acq: 12 Jul 2019 09:48

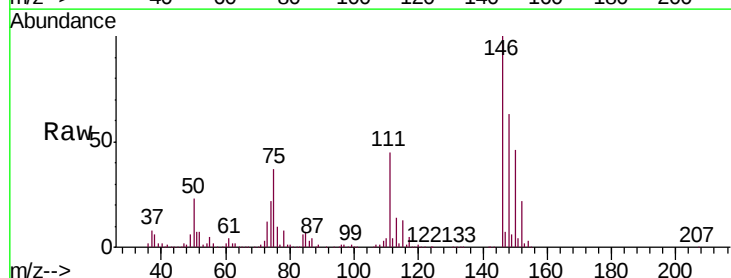
Tgt Ion:146 Resp: 224158

Ion Ratio Lower Upper

146 100

111 44.5 34.1 51.1

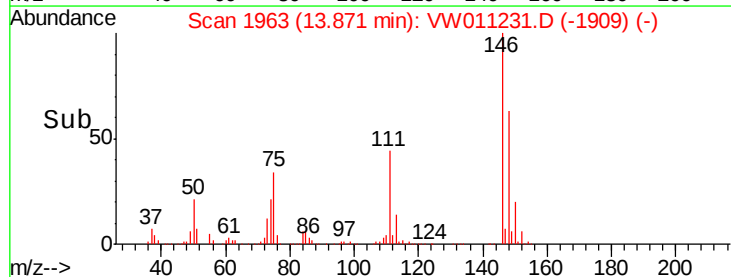
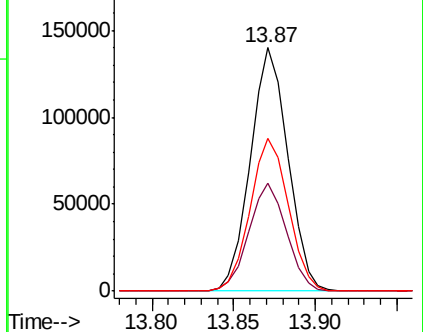
148 62.6 51.0 76.4

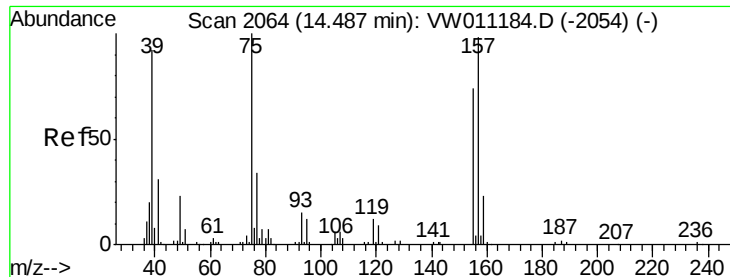


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

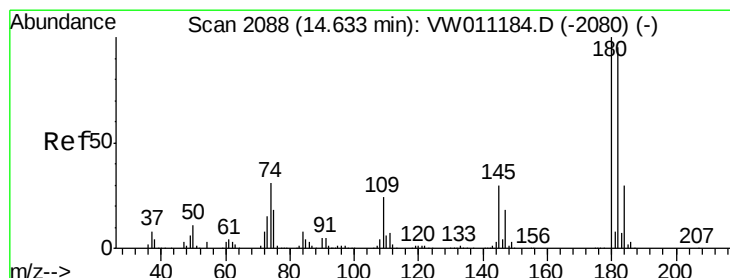
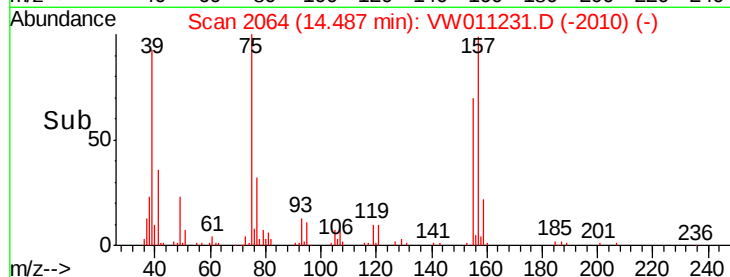
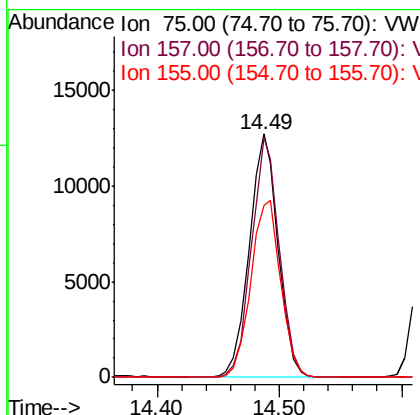
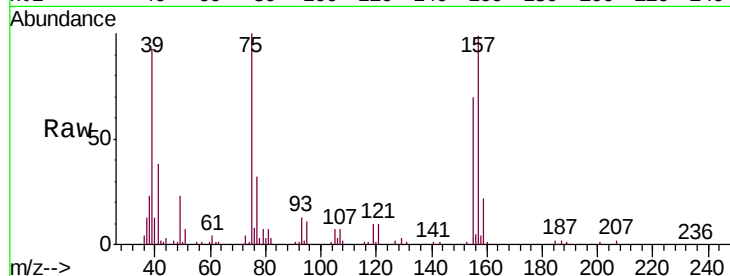




#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.848 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW011231.D
 Acq: 12 Jul 2019 09:48

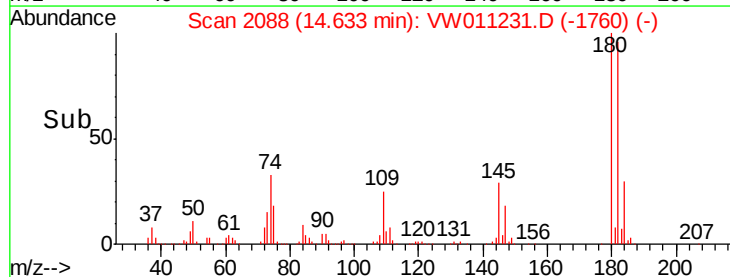
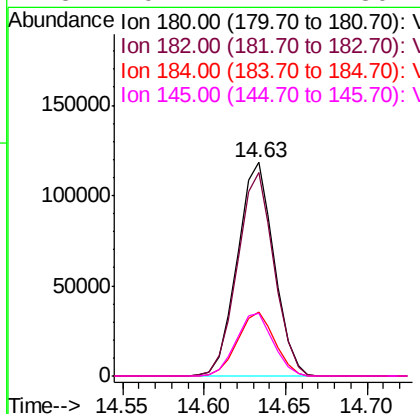
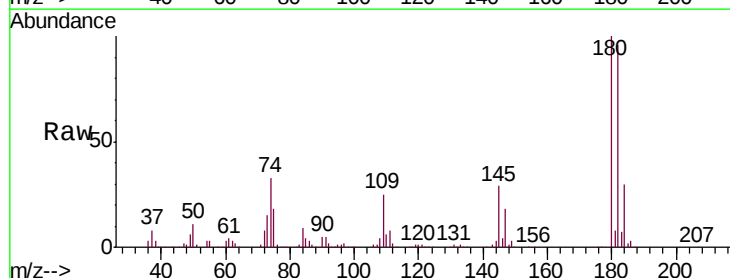
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02519

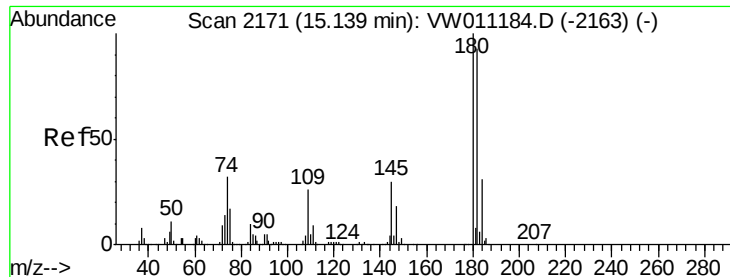
Tgt Ion: 75 Resp: 20755
 Ion Ratio Lower Upper
 75 100
 157 98.6 75.3 112.9
 155 70.5 60.2 90.2



#67
 1,3,5-Trichlorobenzene
 Concen: 24.594 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW011231.D
 Acq: 12 Jul 2019 09:48

Tgt Ion: 180 Resp: 185219
 Ion Ratio Lower Upper
 180 100
 182 94.9 77.0 115.4
 184 30.2 24.3 36.5
 145 29.7 24.2 36.2

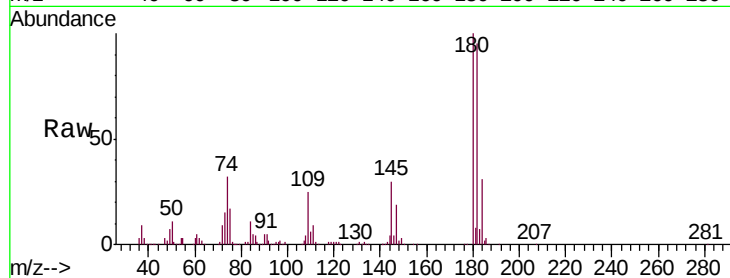




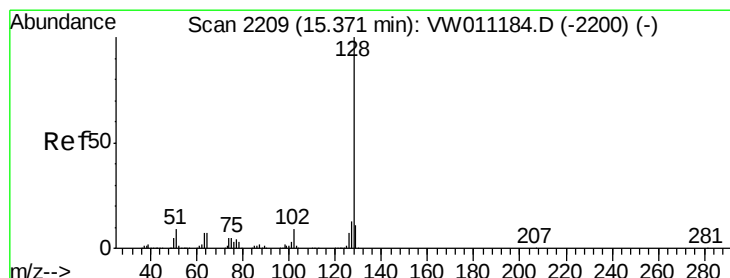
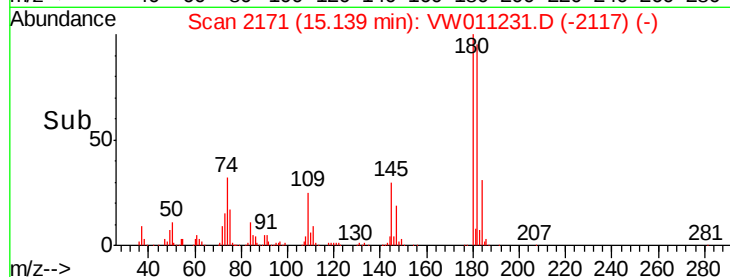
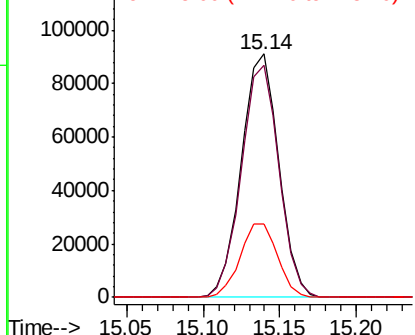
#68
1,2,4-trichlorobenzene
Concen: 24.627 ug/L
RT: 15.14 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

Tgt Ion:180 Resp: 155378
Ion Ratio Lower Upper
180 100
182 95.5 77.0 115.6
145 30.5 24.5 36.7

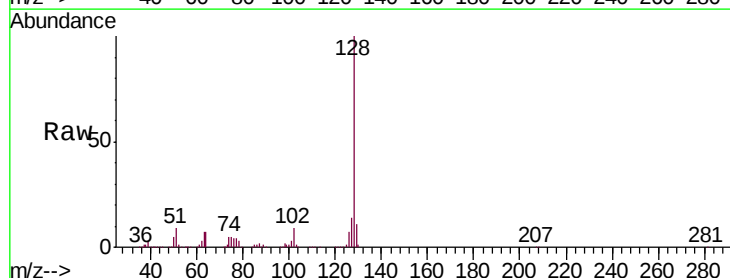


Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

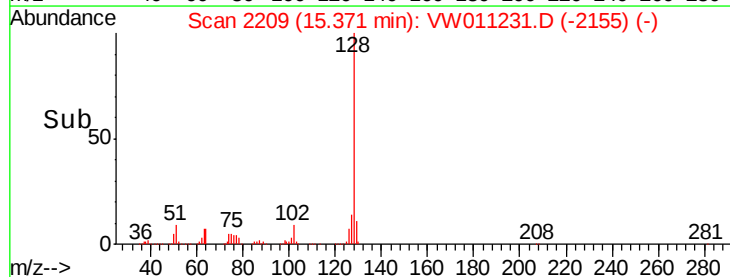
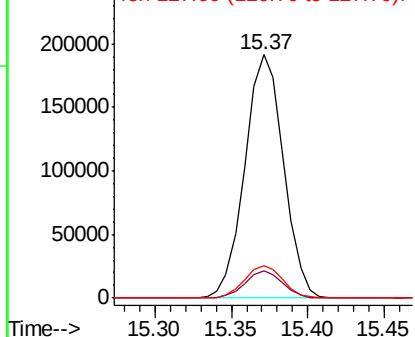


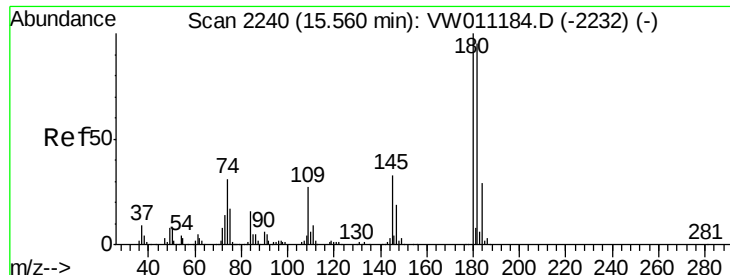
#69
Naphthalene
Concen: 25.516 ug/L
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW011231.D
Acq: 12 Jul 2019 09:48

Tgt Ion:128 Resp: 337156
Ion Ratio Lower Upper
128 100
129 11.0 9.0 13.4
127 13.4 10.6 15.8



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

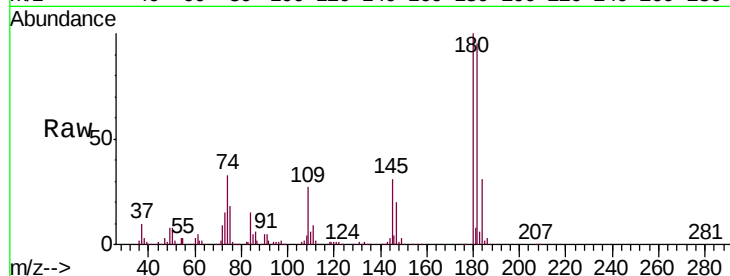




#70
 1,2,3-Trichlorobenzene
 Concen: 25.196 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.00 min
 Lab File: VW011231.D
 Acq: 12 Jul 2019 09:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02519

Tgt Ion:180 Resp: 145447
 Ion Ratio Lower Upper
 180 100
 182 94.4 76.4 114.6
 145 31.9 25.5 38.3



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

