

Data File : VW014260.D
Acq On : 09 Dec 2019 10:47
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB04

Quant Time: Dec 10 07:31:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Mon Dec 09 13:05:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1353732	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1195711	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	577925	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	456237	22.26	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.04%
7) Chloroethane-d5	2.89	69	362428	23.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.12%
10) 1,1-Dichloroethene-d2	4.01	63	855262	23.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.48%
20) 2-Butanone-d5	7.07	46	248793	46.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.14%
24) Chloroform-d	7.64	84	822530	23.86	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.44%
26) 1,2-Dichloroethane-d4	8.30	65	423081	23.41	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.64%
29) Benzene-d6	8.27	84	1729420	24.68	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.72%
33) 1,2-Dichloropropane-d6	9.27	67	523898	24.30	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.20%
37) Toluene-d8	10.32	98	1566898	24.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.92%
38) trans-1,3-Dichloropropene-	10.57	79	217090	24.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.00%
39) 2-Hexanone-d5	10.92	63	194122	45.28	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.56%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	397914	22.65	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.60%
61) 1,2-Dichlorobenzene-d4	13.85	152	515265	23.33	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.32%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	310346	24.104	ug/L	98
3) Chloromethane	2.21	50	299126	23.110	ug/L	98
5) Vinyl chloride	2.36	62	448251	23.389	ug/L	94
6) Bromomethane	2.78	94	269545	22.802	ug/L	99
8) Chloroethane	2.92	64	259319	23.684	ug/L	93
9) Trichlorofluoromethane	3.25	101	249622	26.310	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	402369	22.534	ug/L	94
12) 1,1-Dichloroethene	4.04	96	415003	22.957	ug/L	86
13) Acetone	4.11	43	290852	56.472	ug/L	98
14) Carbon disulfide	4.38	76	1274219	22.982	ug/L	100
15) Methyl Acetate	4.66	43	205466	21.091	ug/L	98
16) Methylene chloride	4.91	84	430015	20.721	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	511702	21.465	ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	439769	22.716	ug/L	94
19) 1,1-Dichloroethane	6.21	63	787267	22.634	ug/L	99
21) 2-Butanone	7.16	43	337049	48.744	ug/L	97
22) cis-1,2-Dichloroethene	7.16	96	465693	22.607	ug/L	99

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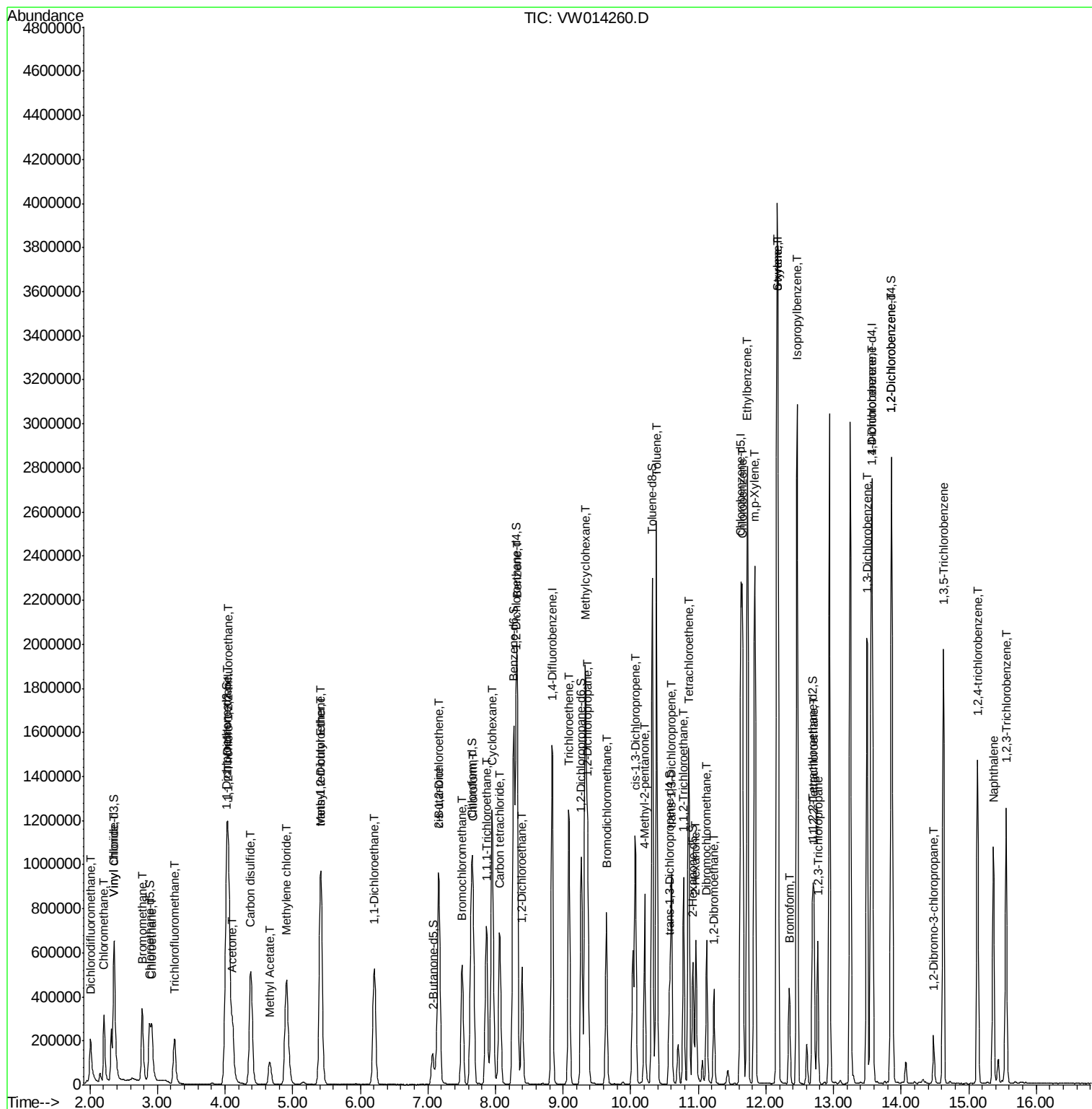
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	195640	20.647	ug/L	82
25) Chloroform	7.67	83	752309	22.258	ug/L	99
27) 1,2-Dichloroethane	8.40	62	478410	21.616	ug/L	96
30) Cyclohexane	7.95	56	757072	25.367	ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	587321	24.458	ug/L	98
32) Carbon tetrachloride	8.06	117	552036	24.228	ug/L	100
34) Benzene	8.32	78	1778970	23.497	ug/L	100
35) Trichloroethene	9.09	95	451219	23.293	ug/L	95
36) Methylcyclohexane	9.33	83	794112	24.396	ug/L	96
40) 1,2-Dichloropropane	9.37	63	444701	22.864	ug/L	99
41) Bromodichloromethane	9.64	83	528595	22.363	ug/L	96
42) cis-1,3-Dichloropropene	10.07	75	674694	23.163	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	560920	43.734	ug/L	98
44) Toluene	10.38	91	1863972	23.484	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	534980	22.689	ug/L	96
46) 1,1,2-Trichloroethane	10.78	97	307513	21.099	ug/L	97
47) Tetrachloroethene	10.86	164	372241	23.055	ug/L	99
49) 2-Hexanone	10.96	43	422285	46.246	ug/L	99
50) Dibromochloromethane	11.13	129	357067	21.828	ug/L	100
51) 1,2-Dibromoethane	11.23	107	293908	21.289	ug/L	99
52) Chlorobenzene	11.65	112	1151896	22.455	ug/L	94
53) Ethylbenzene	11.73	91	2026982	23.535	ug/L	98
54) m,p-Xylene	11.83	106	775391	23.404	ug/L	96
55) o-xylene	12.16	106	736730	23.445	ug/L	97
56) Styrene	12.18	104	1256109	23.365	ug/L	97
57) Isopropylbenzene	12.46	105	1965691	24.095	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	375518	20.758	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	279186	20.769	ug/L	99
62) Bromoform	12.35	173	206316	21.034	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	886640	22.826	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	882268	22.355	ug/L	96
65) 1,2-Dichlorobenzene	13.86	146	792984	21.952	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.48	75	57879	20.771	ug/L #	83
67) 1,3,5-Trichlorobenzene	14.63	180	643429	23.023	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	503236	23.098	ug/L	99
69) Naphthalene	15.36	128	919341	22.439	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	448274	21.941	ug/L	98

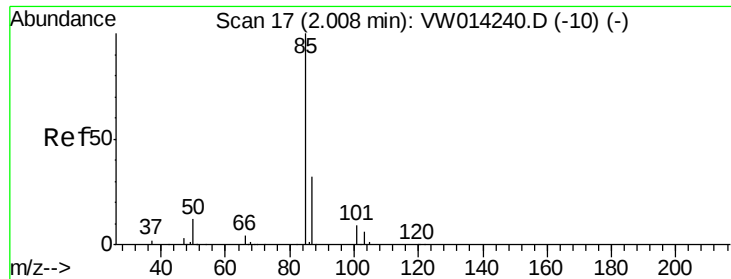
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.104 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

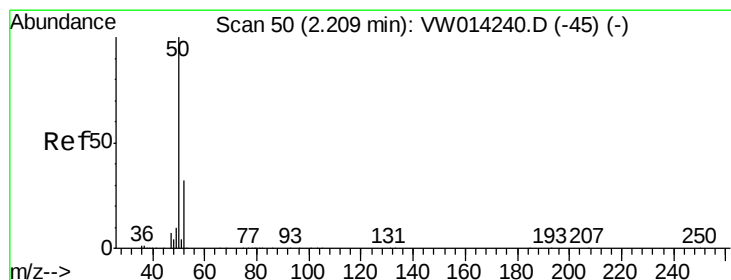
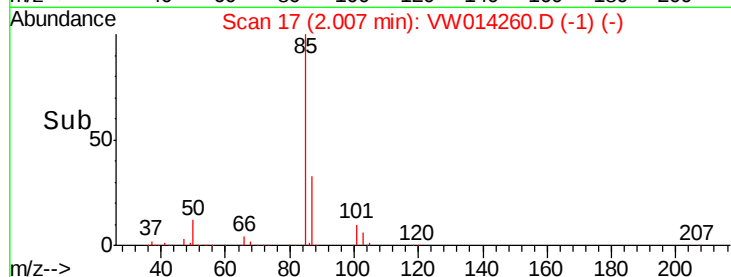
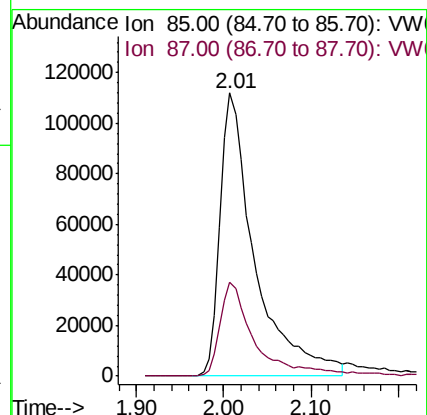
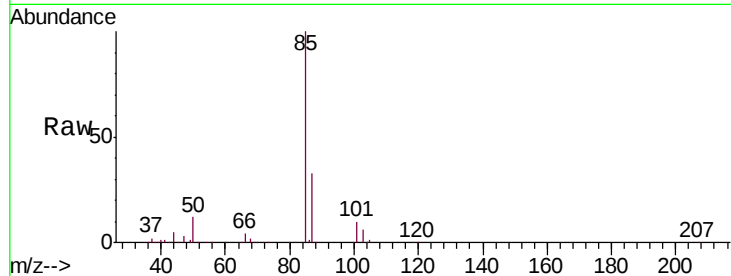
BFB04

Tgt Ion: 85 Resp: 310346

Ion Ratio Lower Upper

85 100

87 32.5 22.1 41.1



#3

Chloromethane

Concen: 23.110 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW014260.D

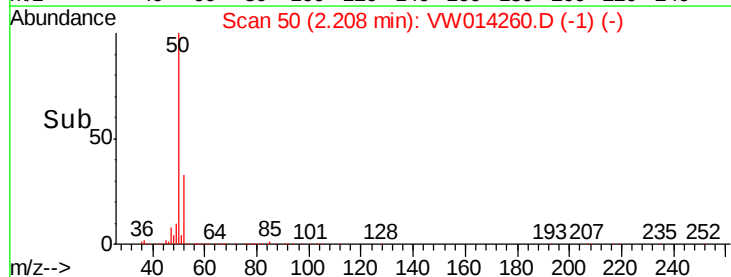
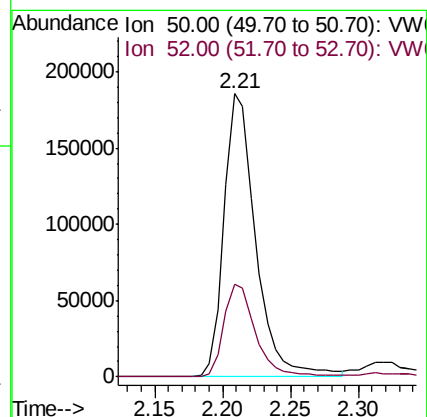
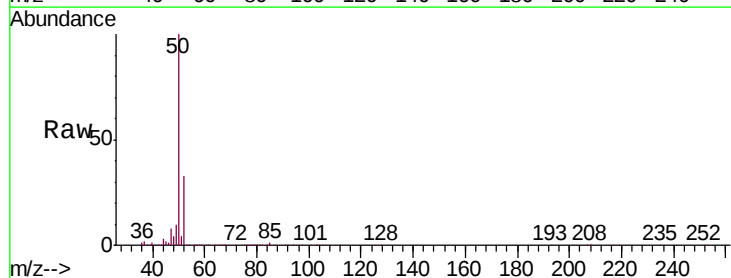
Acq: 09 Dec 2019 10:47

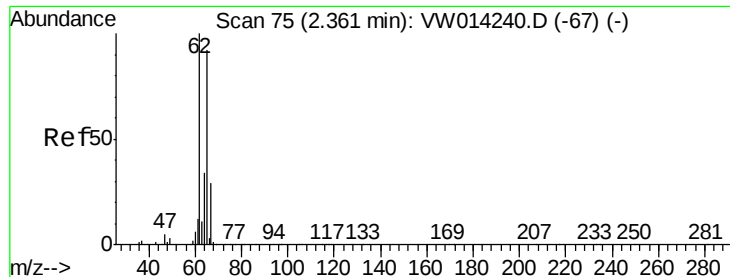
Tgt Ion: 50 Resp: 299126

Ion Ratio Lower Upper

50 100

52 32.7 23.8 44.2





#5

Vinyl chloride

Concen: 23.389 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

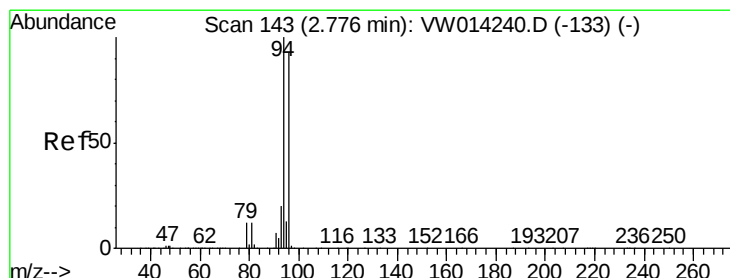
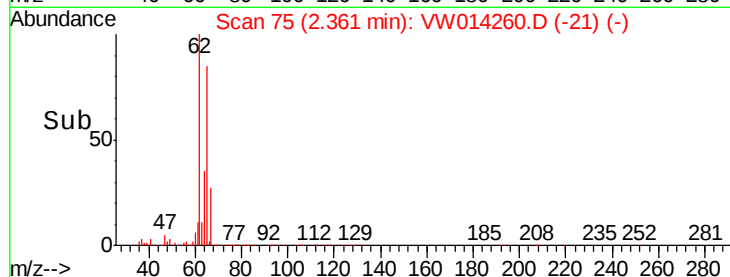
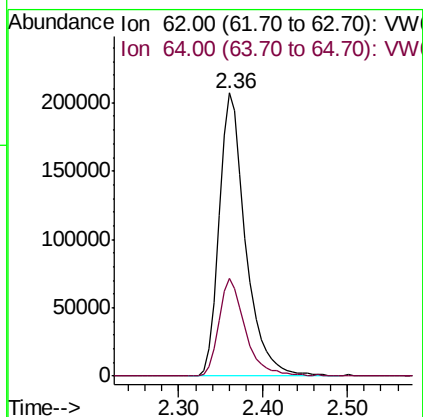
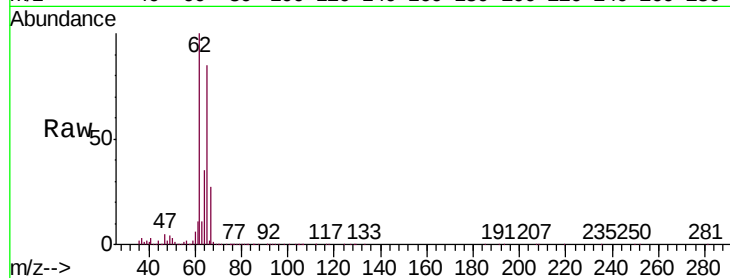
BFB04

Tgt Ion: 62 Resp: 448251

Ion Ratio Lower Upper

62 100

64 34.6 21.8 40.4



#6

Bromomethane

Concen: 22.802 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014260.D

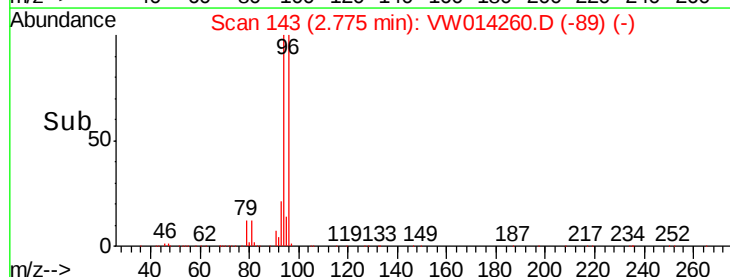
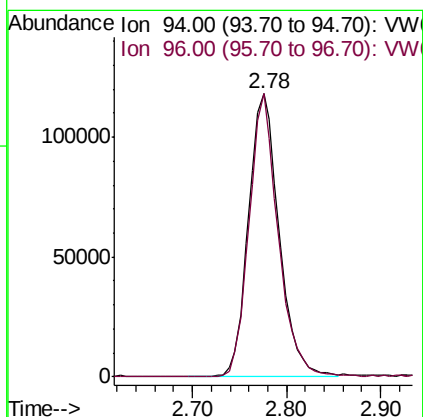
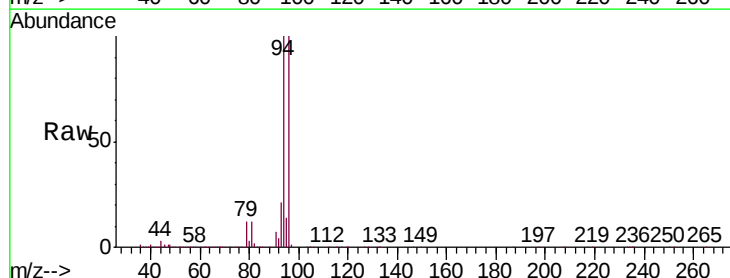
Acq: 09 Dec 2019 10:47

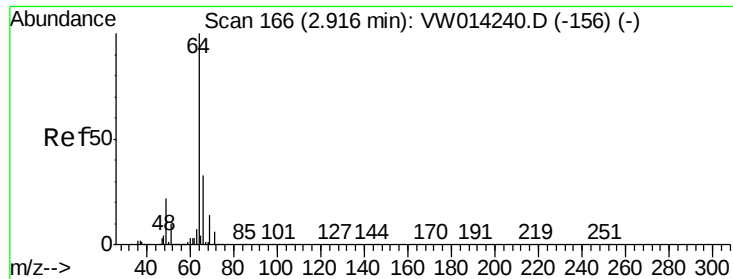
Tgt Ion: 94 Resp: 269545

Ion Ratio Lower Upper

94 100

96 94.9 9.4 178.8





#8

Chloroethane

Concen: 23.684 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

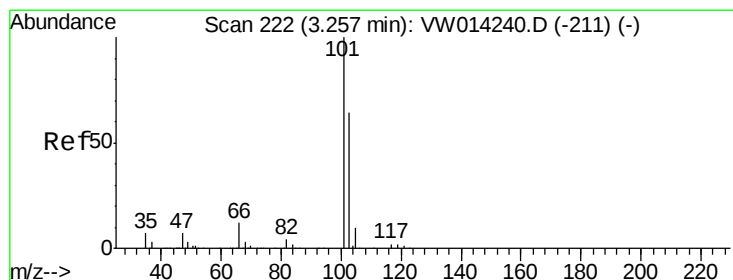
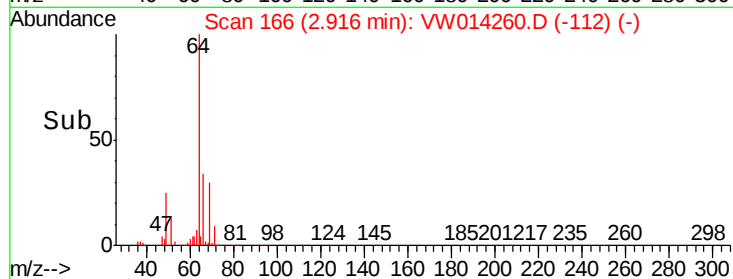
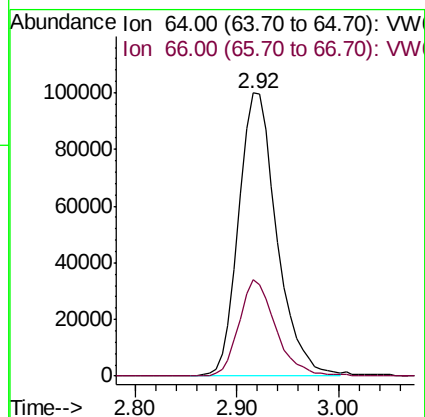
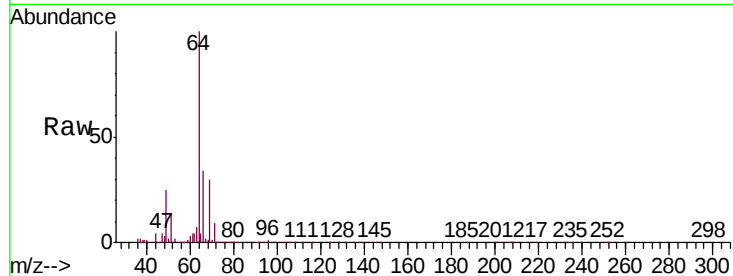
BFB04

Tgt Ion: 64 Resp: 259319

Ion Ratio Lower Upper

64 100

66 33.9 21.2 39.4



#9

Trichlorofluoromethane

Concen: 26.310 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW014260.D

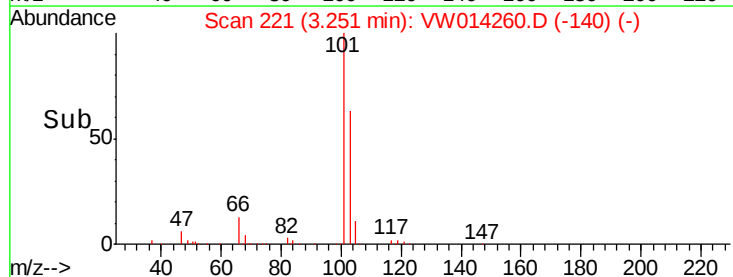
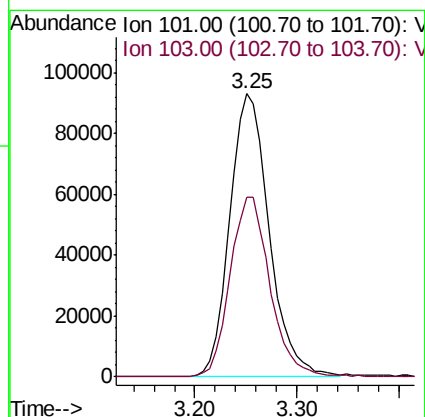
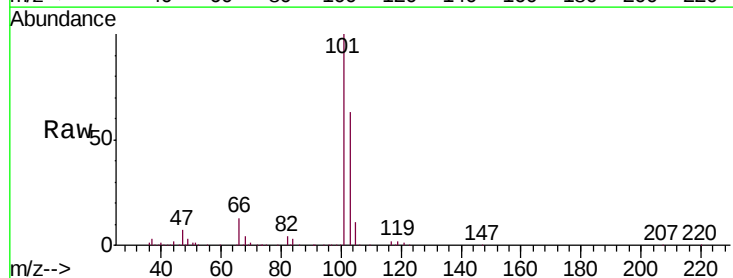
Acq: 09 Dec 2019 10:47

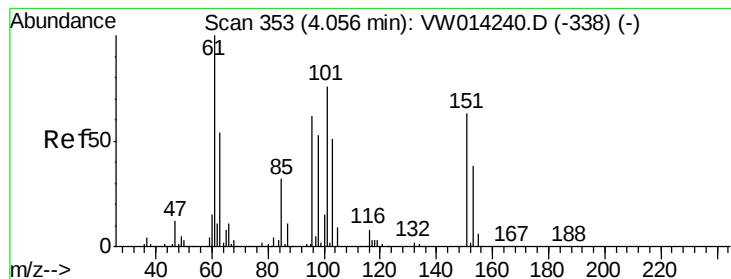
Tgt Ion: 101 Resp: 249622

Ion Ratio Lower Upper

101 100

103 64.4 45.4 84.2





#11

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

Concen: 22.534 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.00 min

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Instrument :

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ClientSampleId :

BFB04

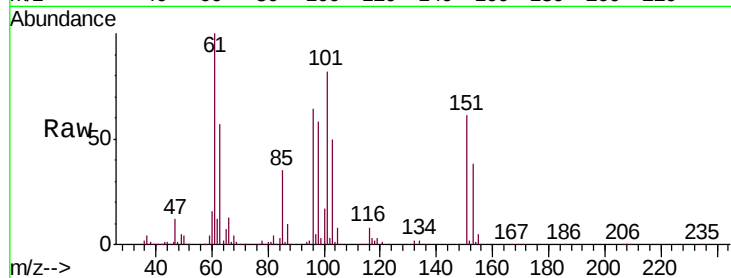
Tgt Ion:101 Resp: 402369

Ion Ratio Lower Upper

101 100

85 41.9 31.4 47.2

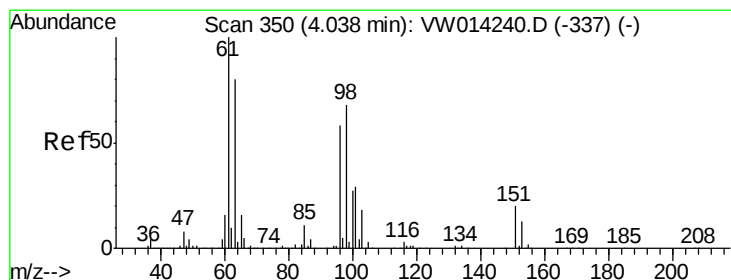
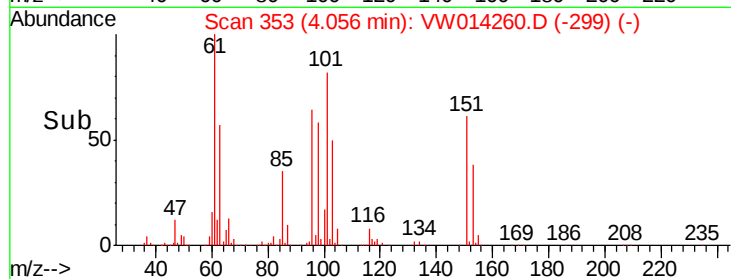
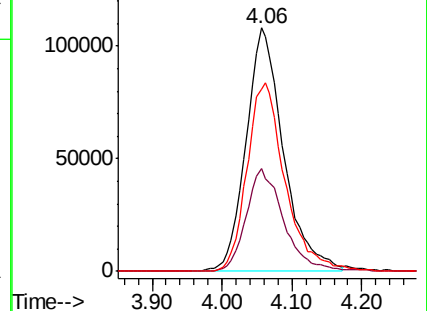
151 77.8 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 22.957 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

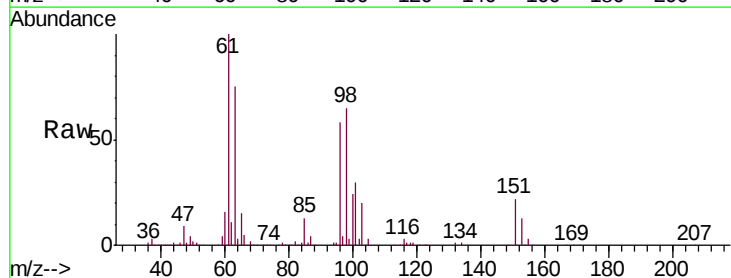
Tgt Ion: 96 Resp: 415003

Ion Ratio Lower Upper

96 100

61 173.8 109.8 204.0

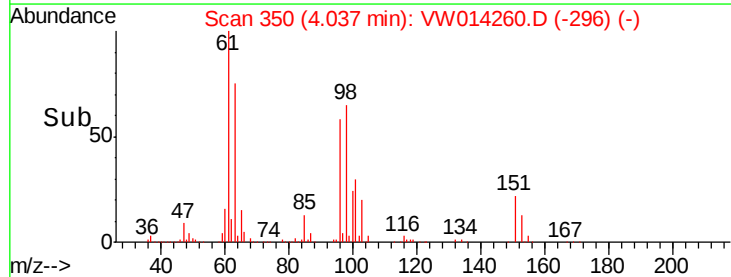
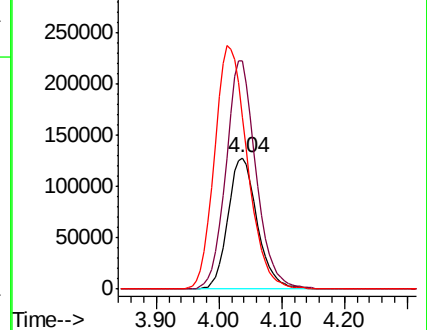
63 130.9 80.7 149.9

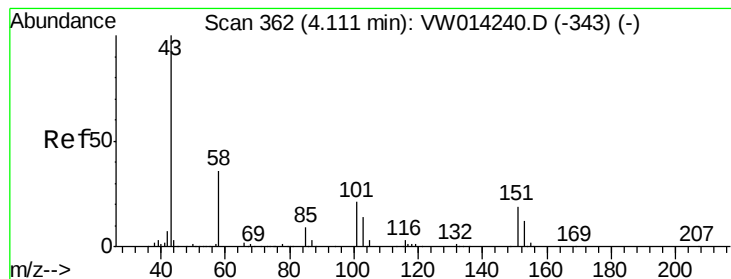


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 56.472 ug/L

RT: 4.11 min Scan# 362

Delta R.T. -0.00 min

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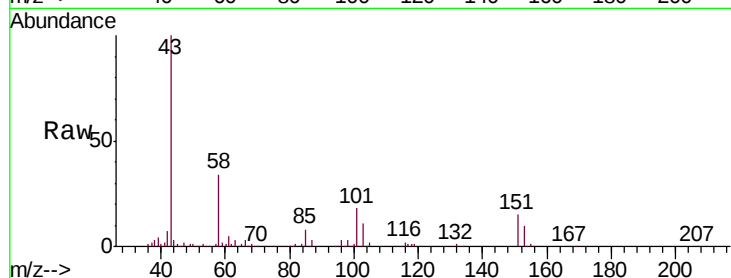
BFB04

Tgt Ion: 43 Resp: 290852

Ion Ratio Lower Upper

43 100

58 34.1 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.11

120000

100000

80000

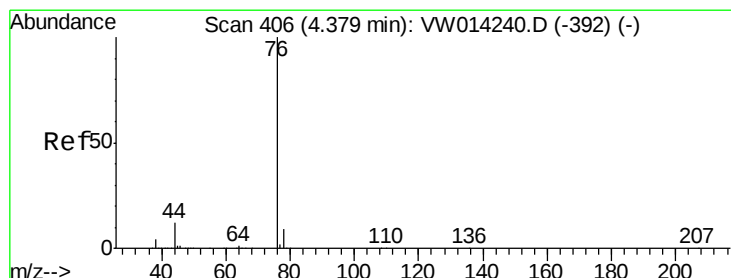
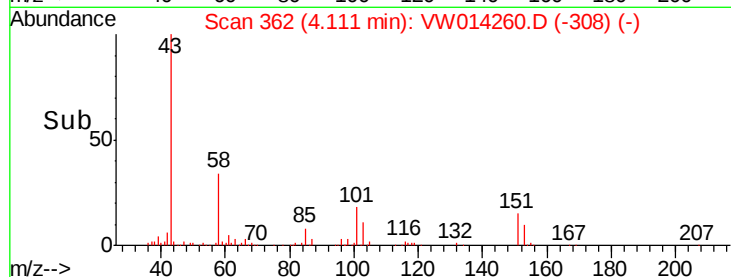
60000

40000

20000

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Time-->



#14

Carbon disulfide

Concen: 22.982 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW014260.D

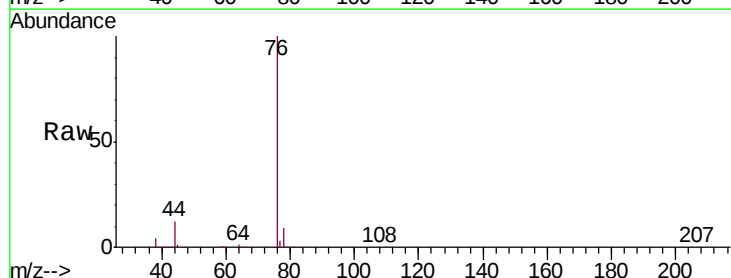
Acq: 09 Dec 2019 10:47

Tgt Ion: 76 Resp: 1274219

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.38

400000

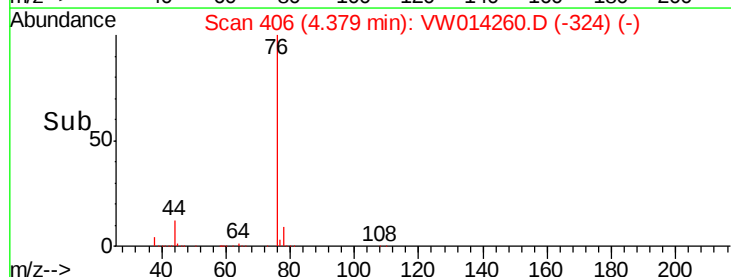
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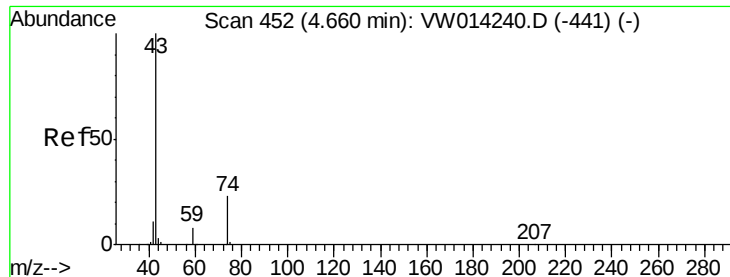
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100000

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Time-->

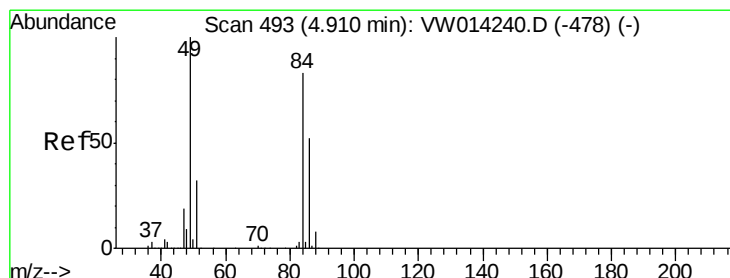
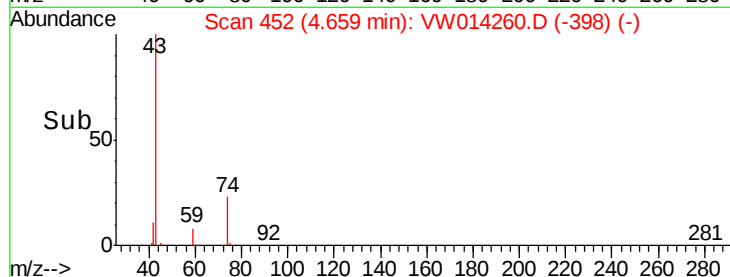
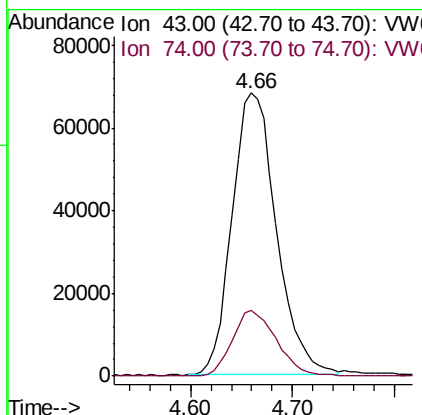
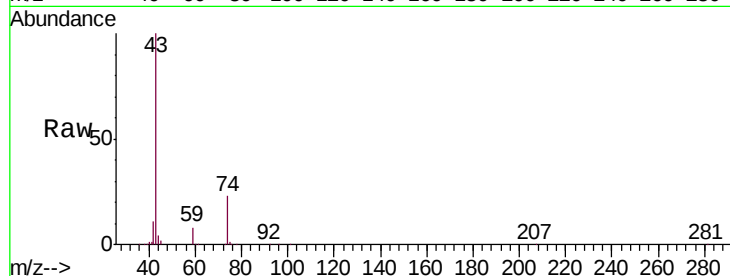




#15
Methyl Acetate
Concen: 21.091 ug/L
RT: 4.66 min Scan# 452
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

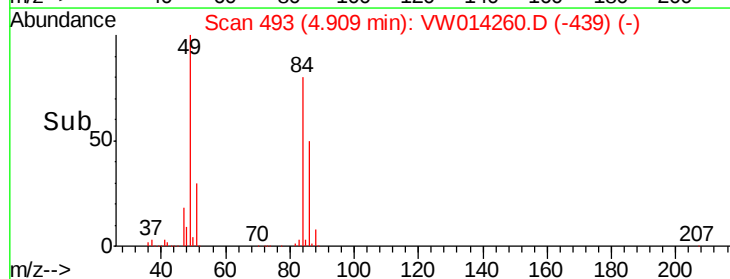
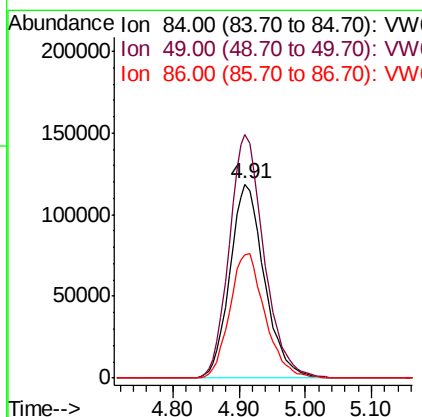
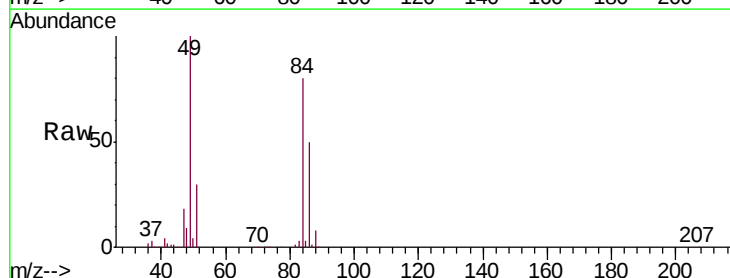
Instrument :
MSVOA_W
ClientSampleId :
BFB04

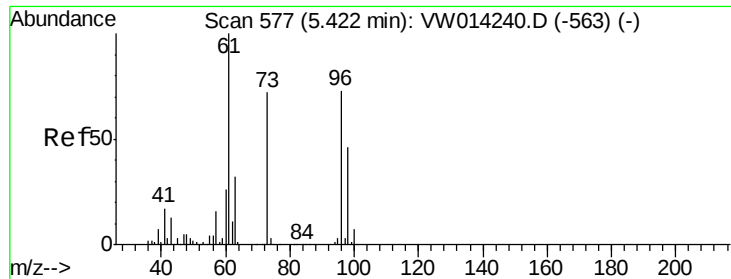
Tgt Ion: 43 Resp: 205466
Ion Ratio Lower Upper
43 100
74 23.1 19.3 28.9



#16
Methylene chloride
Concen: 20.721 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

Tgt Ion: 84 Resp: 430015
Ion Ratio Lower Upper
84 100
49 125.7 84.2 156.4
86 63.5 43.7 81.1

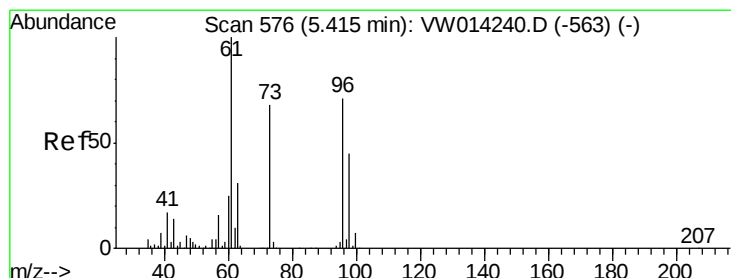
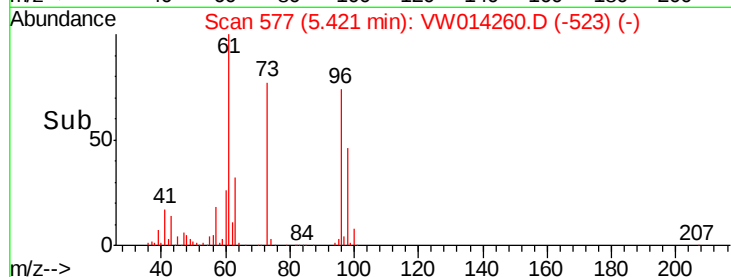
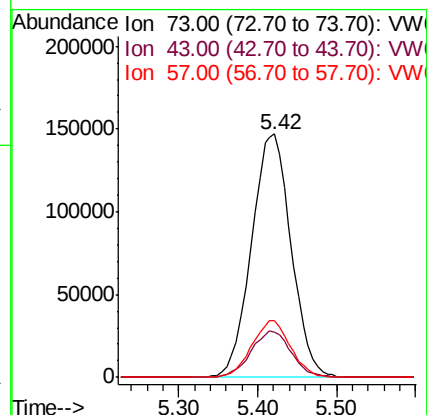
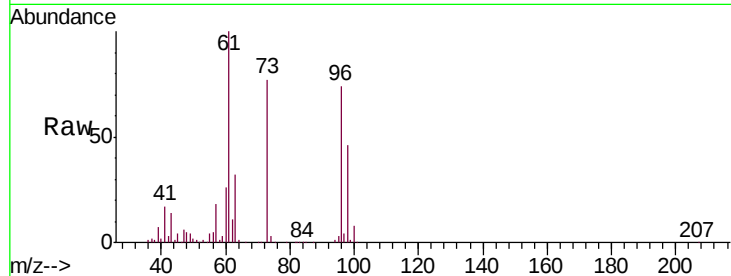




#17
Methyl tert-butyl Ether
Concen: 21.465 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

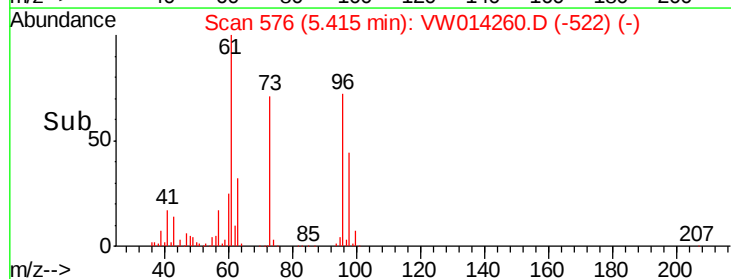
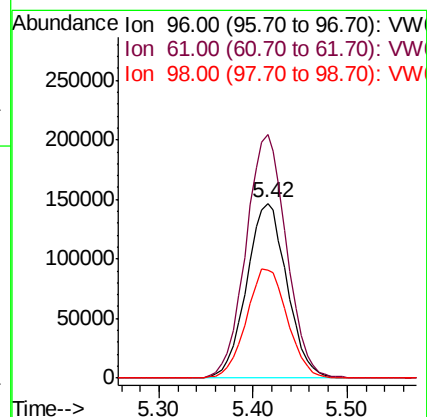
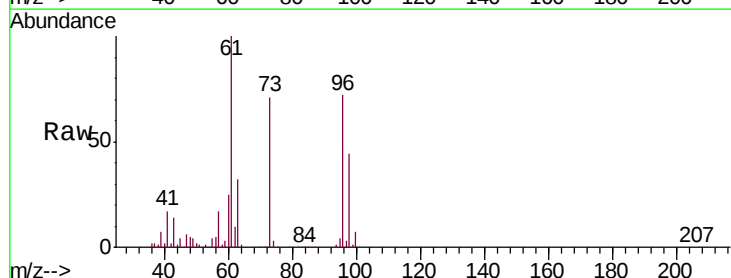
Instrument :
MSVOA_W
ClientSampleId :
BFB04

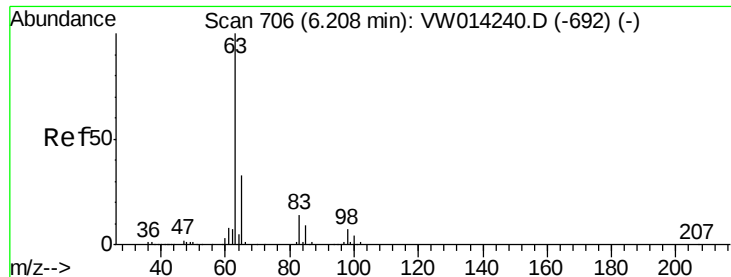
Tgt Ion: 73 Resp: 511702
Ion Ratio Lower Upper
73 100
43 19.1 15.5 23.3
57 22.9 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 22.716 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

Tgt Ion: 96 Resp: 439769
Ion Ratio Lower Upper
96 100
61 139.1 90.6 168.2
98 61.6 42.9 79.7





#19

1,1-Dichloroethane

Concen: 22.634 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

BFB04

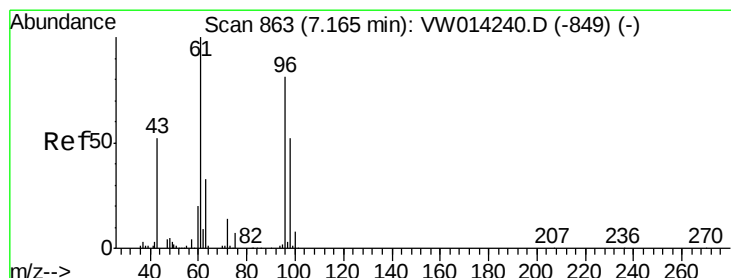
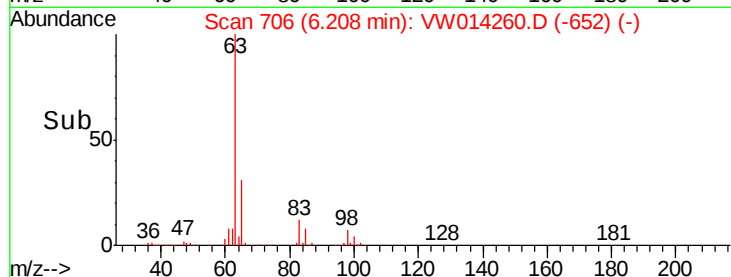
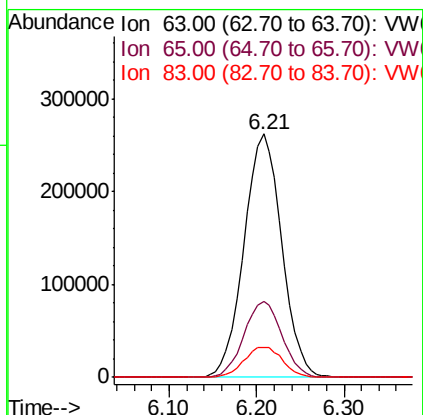
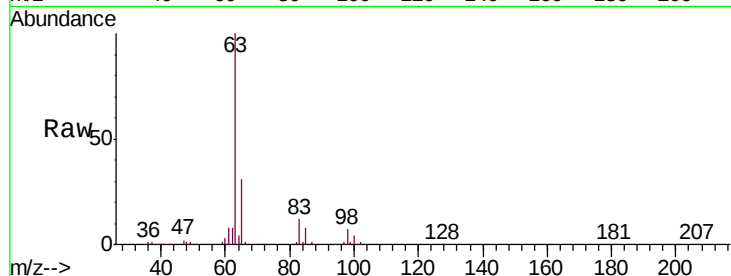
Tgt Ion: 63 Resp: 787267

Ion Ratio Lower Upper

63 100

65 31.1 22.1 41.1

83 12.3 9.0 16.6



#21

2-Butanone

Concen: 48.744 ug/L

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW014260.D

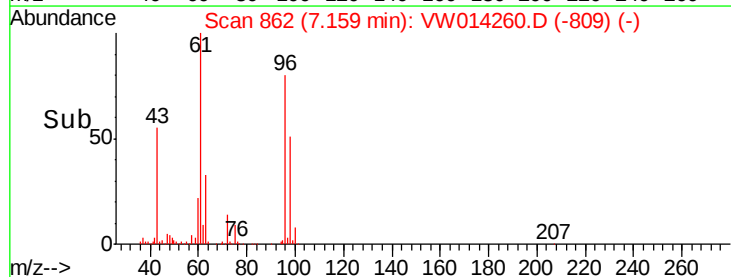
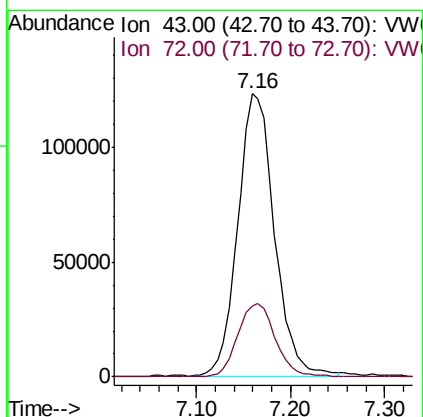
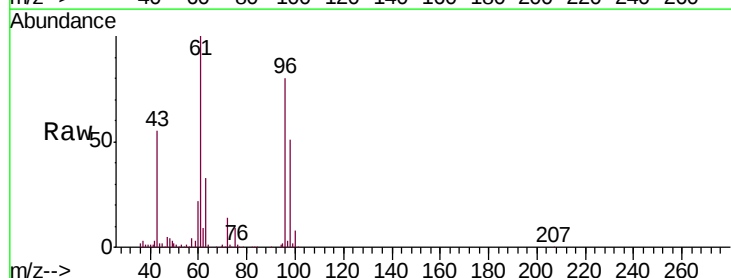
Acq: 09 Dec 2019 10:47

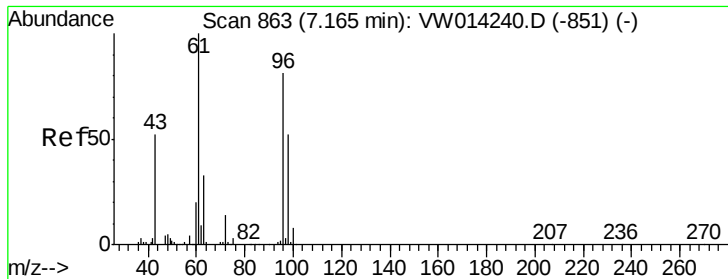
Tgt Ion: 43 Resp: 337049

Ion Ratio Lower Upper

43 100

72 26.6 14.1 42.2



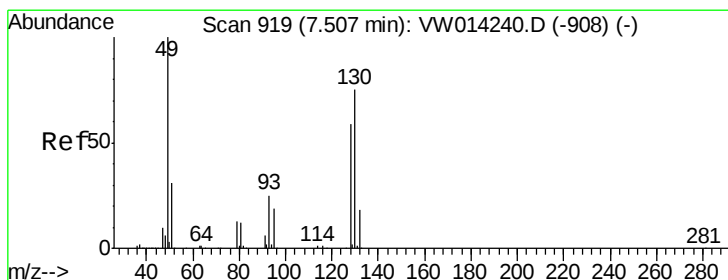
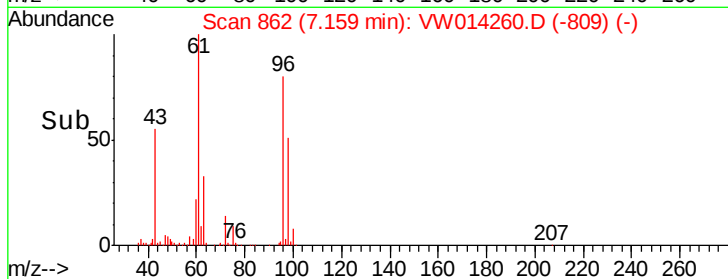
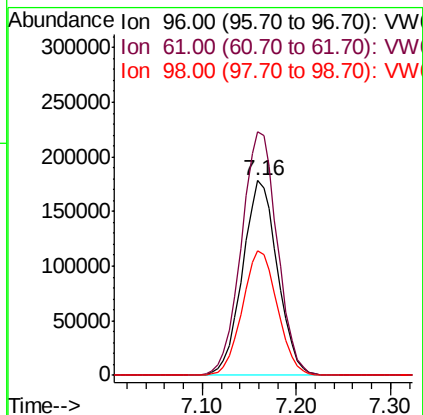
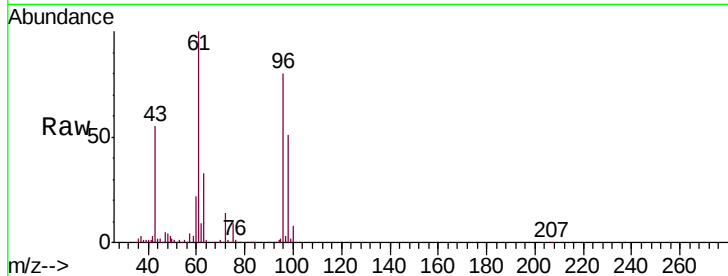


#22

cis-1,2-Dichloroethene
 Concen: 22.607 ug/L
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

Instrument :
 MSVOA_W
 ClientSampleId :
 BFB04

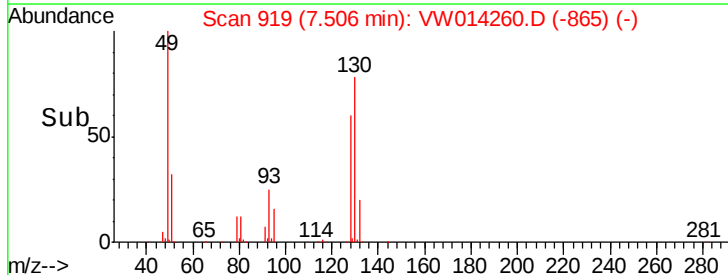
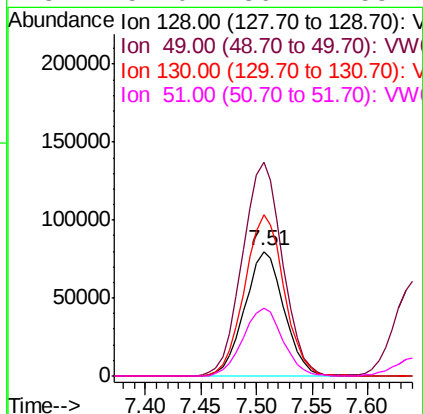
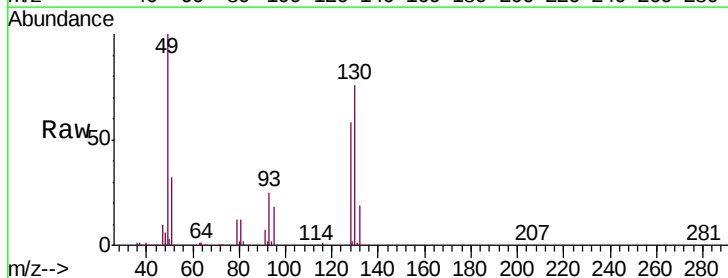
Tgt Ion: 96 Resp: 465693
 Ion Ratio Lower Upper
 96 100
 61 125.0 86.9 161.5
 98 64.0 45.5 84.5

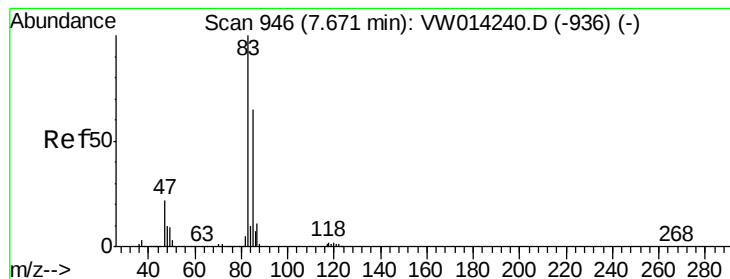


#23

Bromochloromethane
 Concen: 20.647 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

Tgt Ion: 128 Resp: 195640
 Ion Ratio Lower Upper
 128 100
 49 171.3 95.1 176.5
 130 129.3 85.0 158.0
 51 54.0 36.7 55.1





#25

Chloroform

Concen: 22.258 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

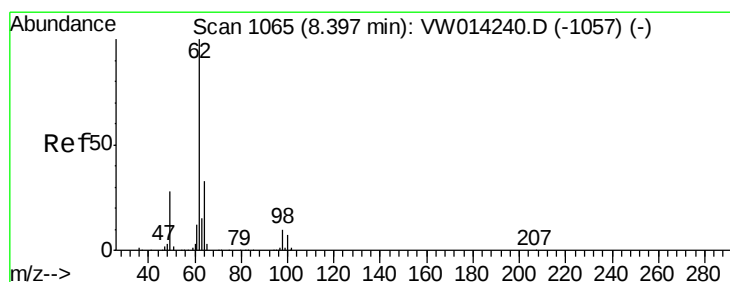
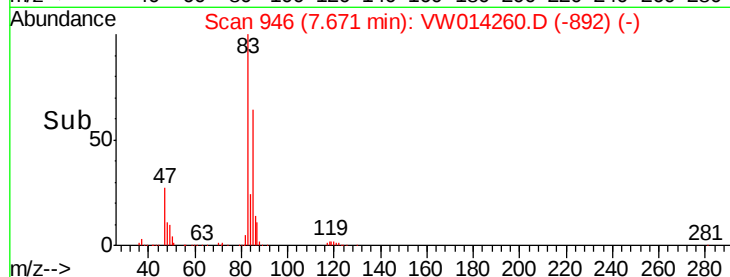
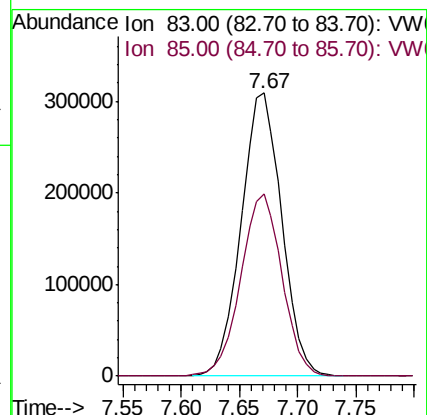
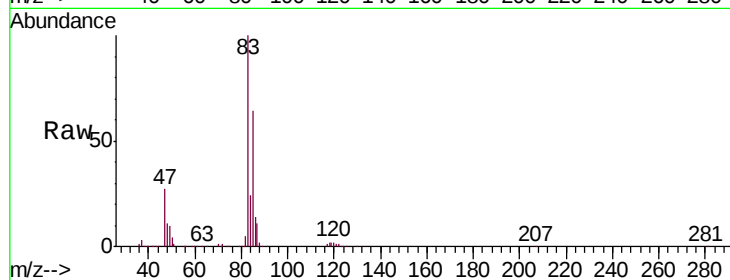
BFB04

Tgt Ion: 83 Resp: 752309

Ion Ratio Lower Upper

83 100

85 65.3 46.1 85.7



#27

1,2-Dichloroethane

Concen: 21.616 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014260.D

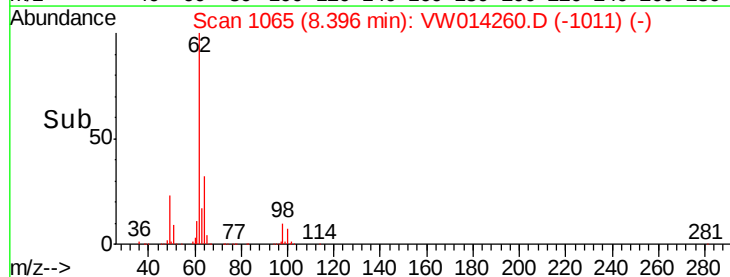
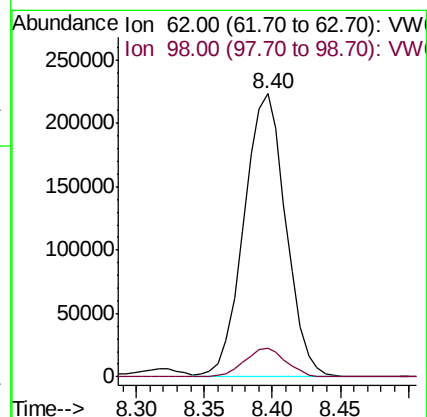
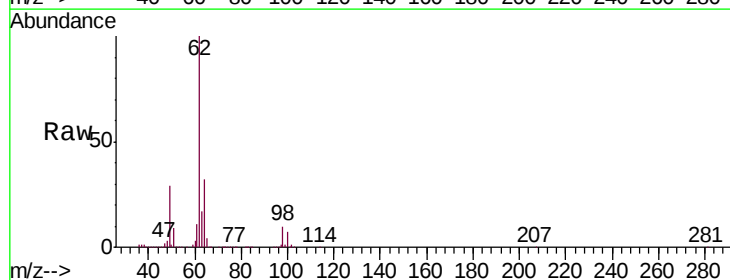
Acq: 09 Dec 2019 10:47

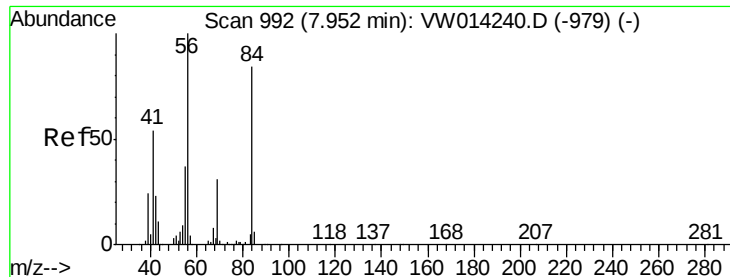
Tgt Ion: 62 Resp: 478410

Ion Ratio Lower Upper

62 100

98 10.1 9.3 13.9

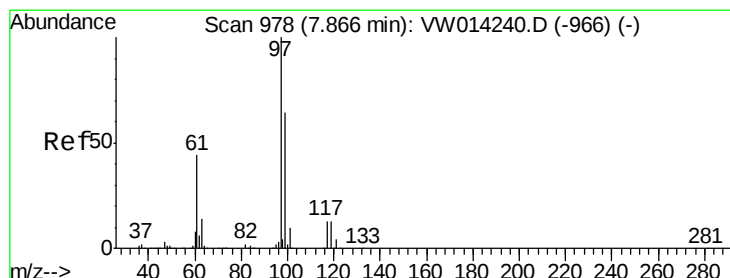
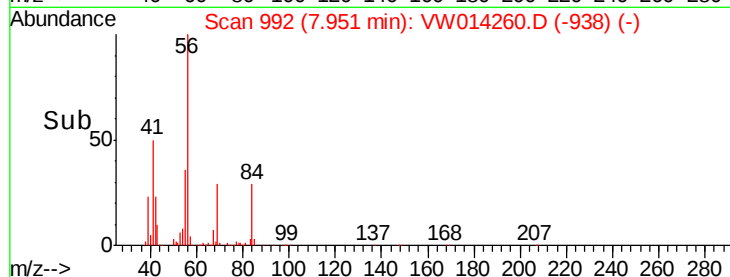
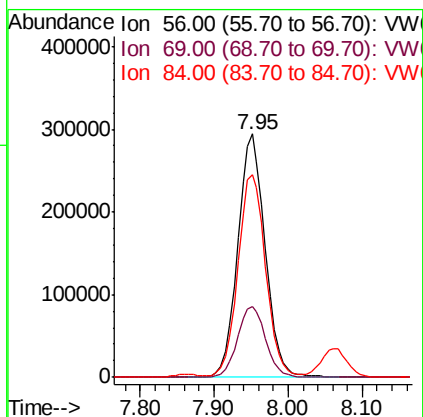
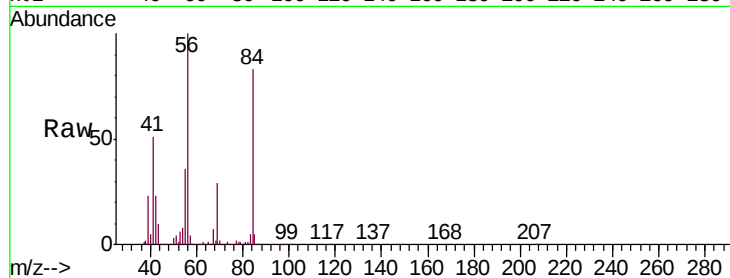




#30
Cyclohexane
Concen: 25.367 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

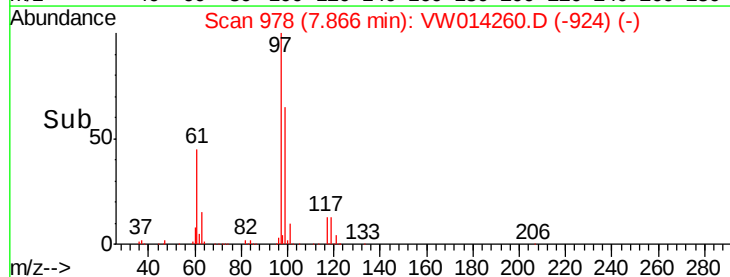
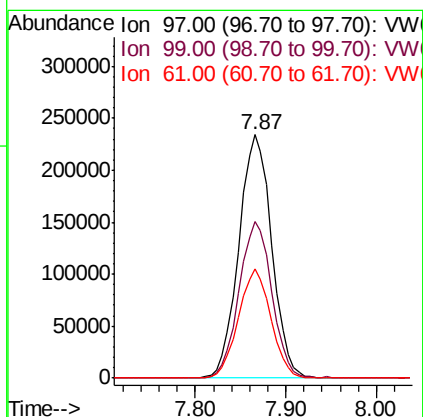
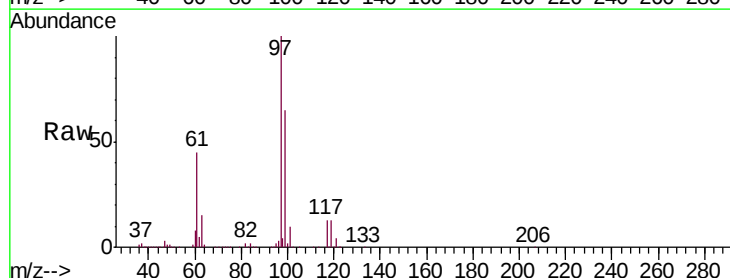
Instrument :
MSVOA_W
ClientSampleId :
BFB04

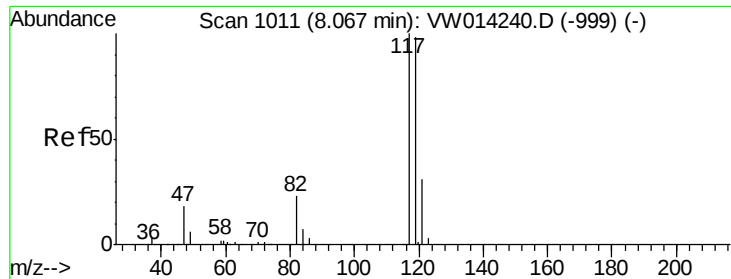
Tgt Ion: 56 Resp: 757072
Ion Ratio Lower Upper
56 100
69 29.9 24.6 37.0
84 84.8 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 24.458 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

Tgt Ion: 97 Resp: 587321
Ion Ratio Lower Upper
97 100
99 64.2 51.1 76.7
61 44.2 32.8 49.2





#32

Carbon tetrachloride

Concen: 24.228 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

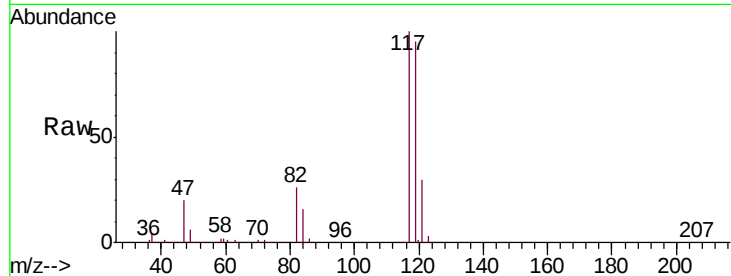
BFB04

Tgt Ion:117 Resp: 552036

Ion Ratio Lower Upper

117 100

119 95.7 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.06

250000

200000

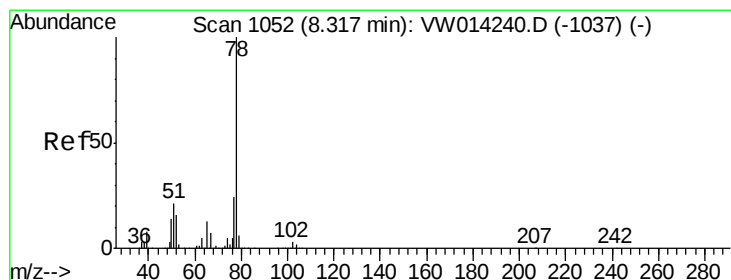
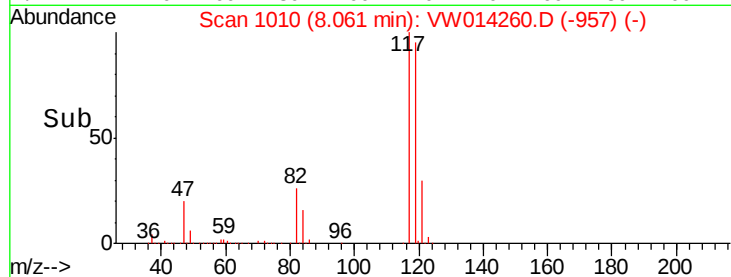
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 23.497 ug/L

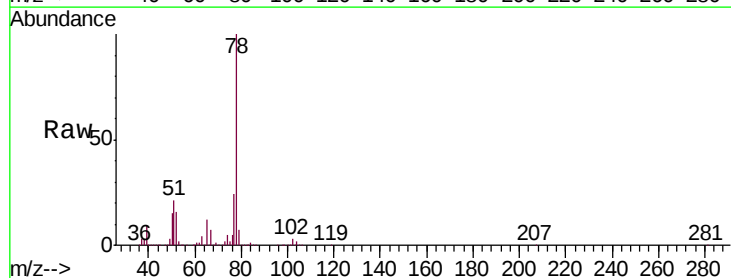
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Tgt Ion: 78 Resp: 1778970



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

800000

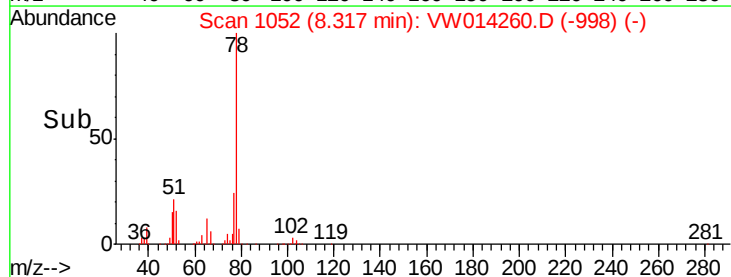
600000

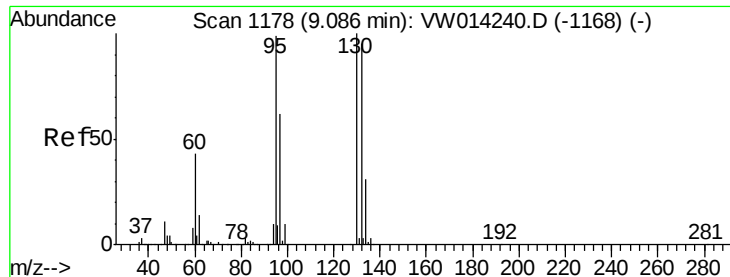
400000

200000

0

Time-->





#35

Trichloroethene

Concen: 23.293 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

BFB04

Tgt Ion: 95 Resp: 451219

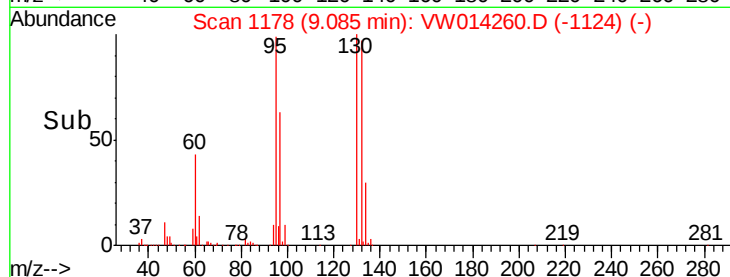
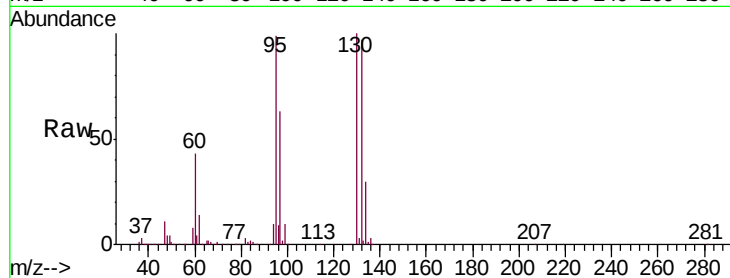
Ion Ratio Lower Upper

95 100

97 63.2 45.1 83.9

132 98.7 73.7 136.9

130 103.4 76.6 142.2

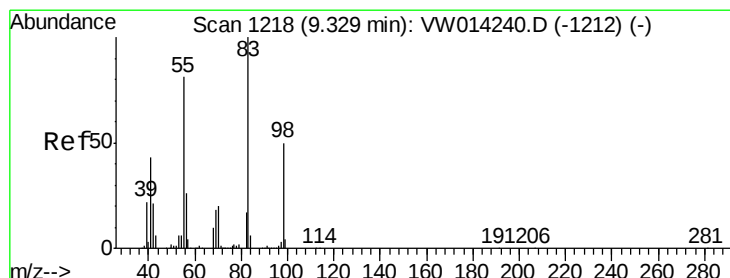
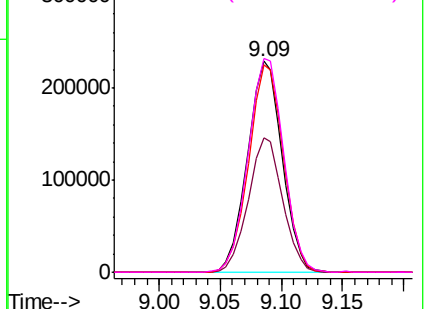


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 24.396 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

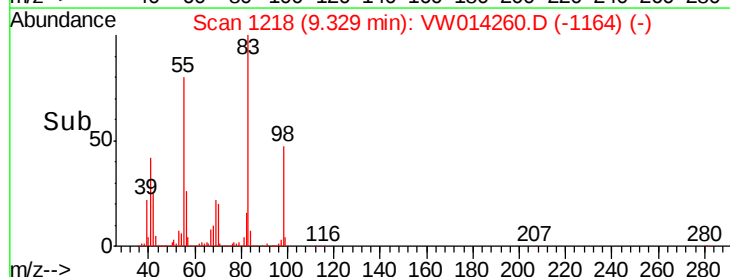
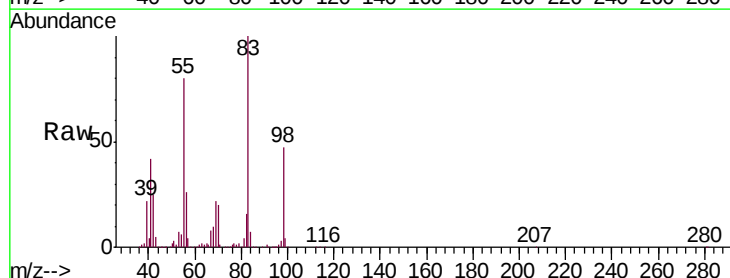
Tgt Ion: 83 Resp: 794112

Ion Ratio Lower Upper

83 100

55 79.0 59.8 89.8

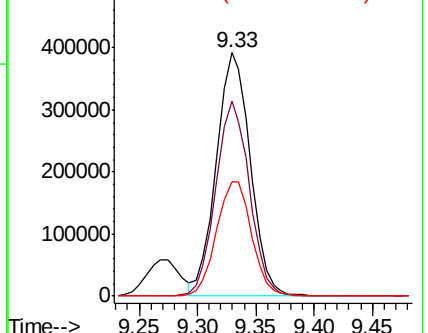
98 48.4 39.5 59.3

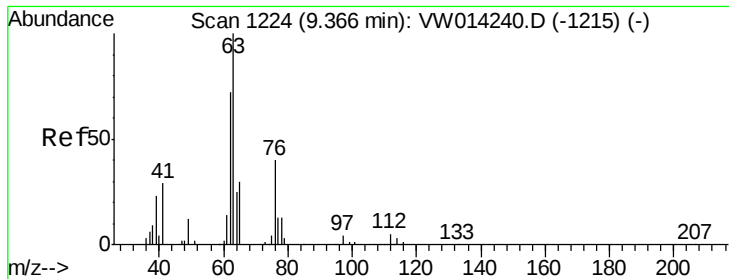


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

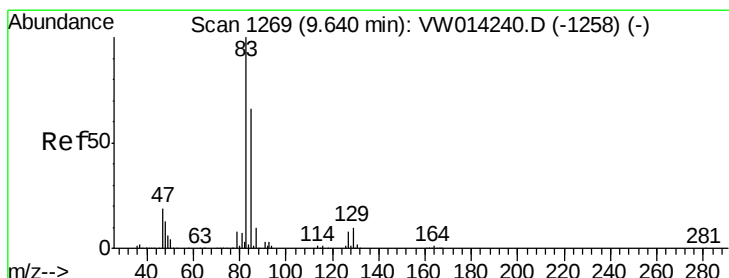
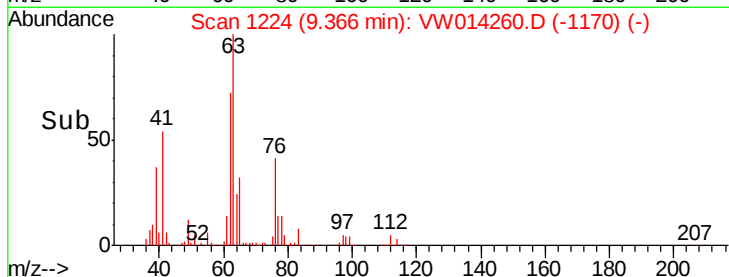
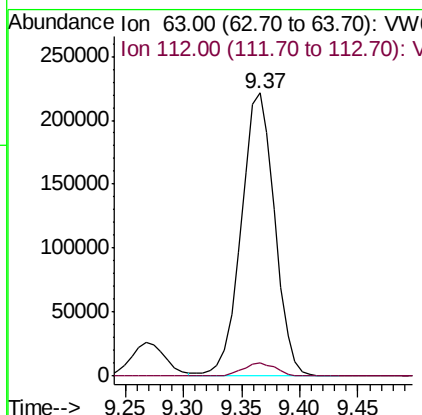
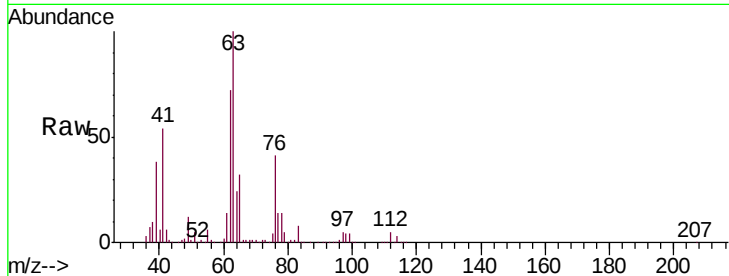




#40
 1,2-Dichloropropane
 Concen: 22.864 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

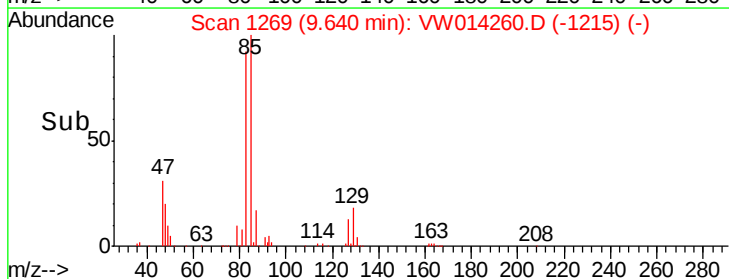
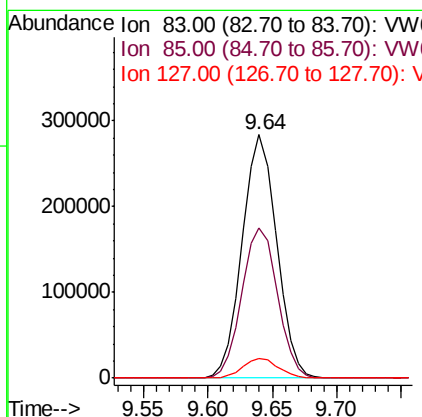
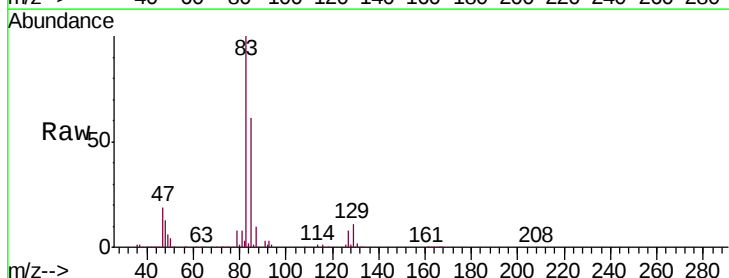
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB04

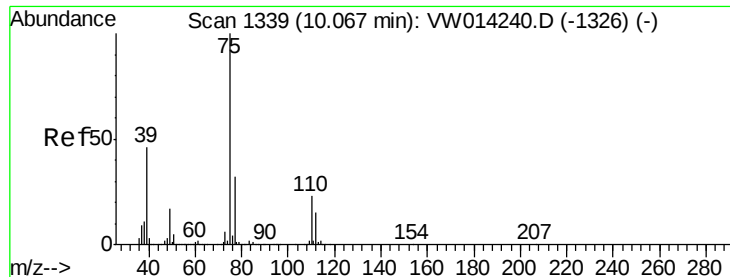
Tgt Ion: 63 Resp: 444701
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.9 5.9



#41
 Bromodichloromethane
 Concen: 22.363 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

Tgt Ion: 83 Resp: 528595
 Ion Ratio Lower Upper
 83 100
 85 61.4 45.1 83.7
 127 8.1 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 23.163 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

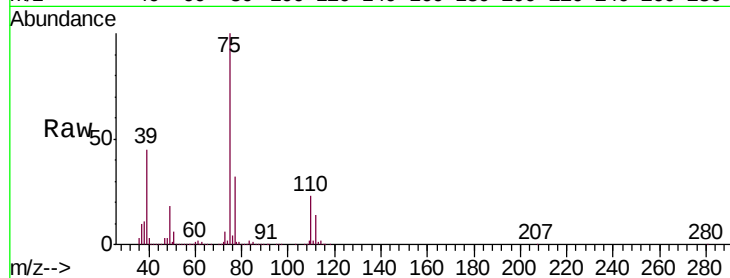
BFB04

Tgt Ion: 75 Resp: 674694

Ion Ratio Lower Upper

75 100

77 32.4 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

400000

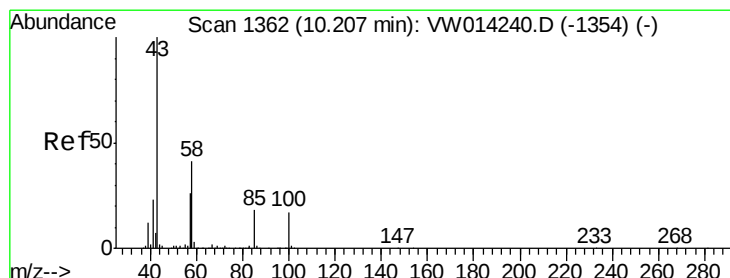
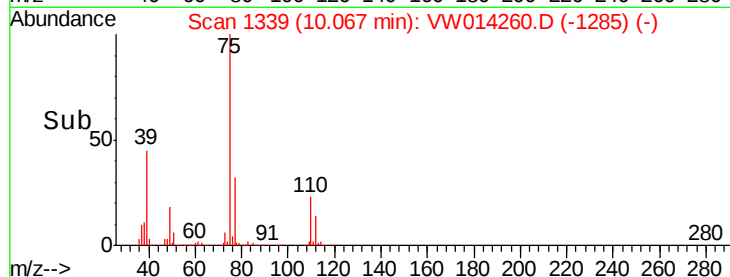
300000

200000

100000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 43.734 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

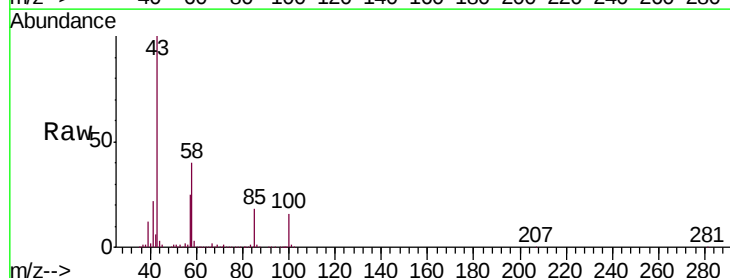
Tgt Ion: 43 Resp: 560920

Ion Ratio Lower Upper

43 100

58 40.3 32.6 49.0

100 15.9 13.8 20.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

800000

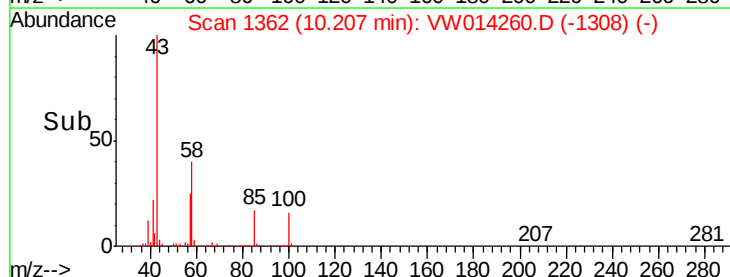
600000

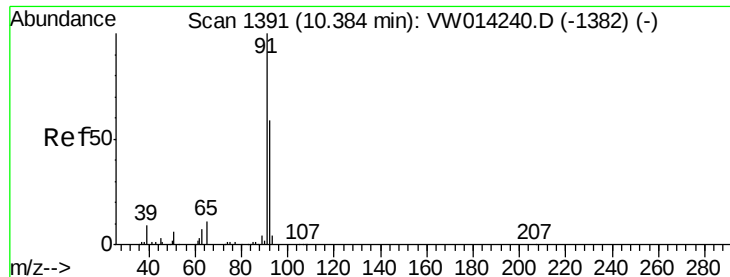
400000

200000

0

Time-->





#44

Toluene

Concen: 23.484 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

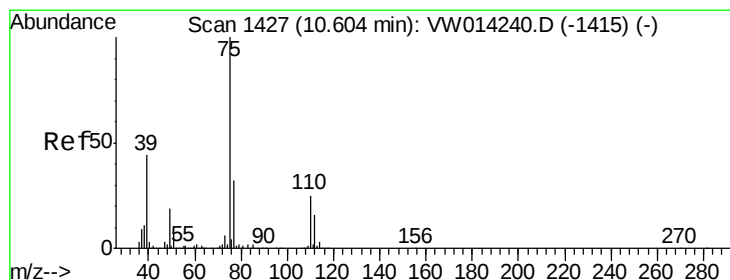
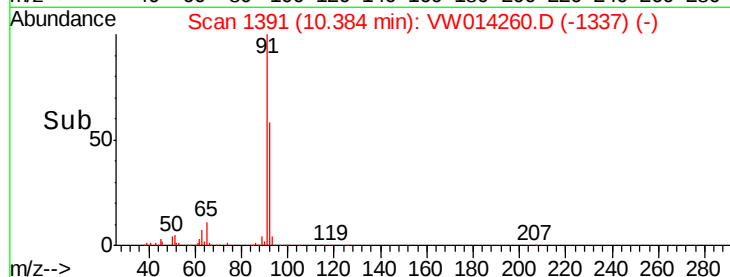
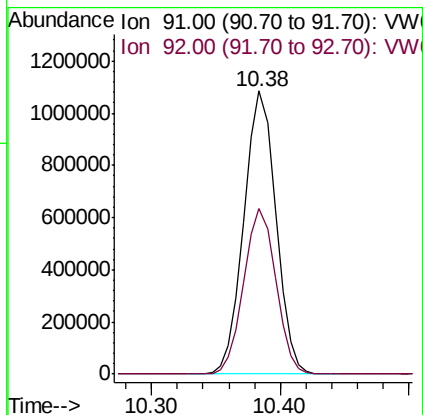
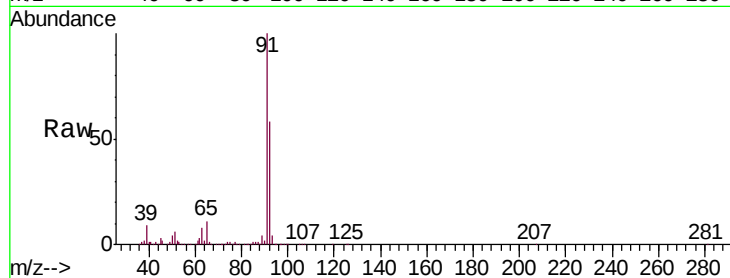
BFB04

Tgt Ion: 91 Resp: 1863972

Ion Ratio Lower Upper

91 100

92 58.5 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 22.689 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014260.D

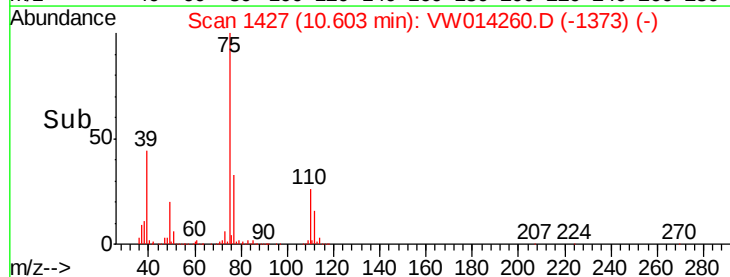
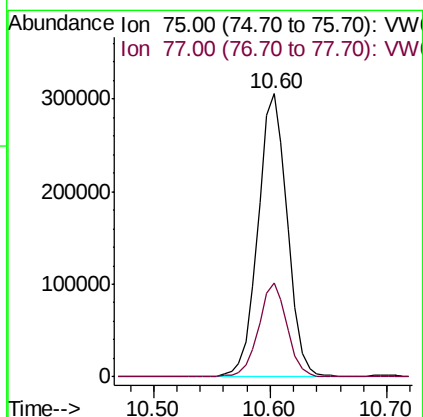
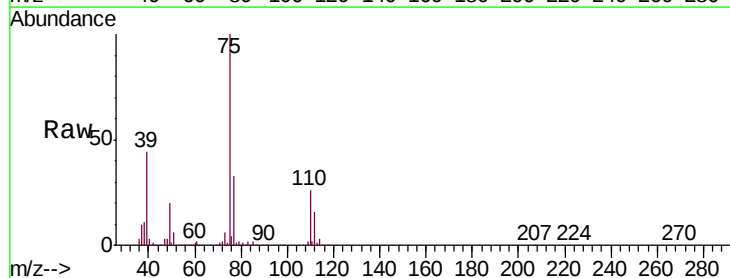
Acq: 09 Dec 2019 10:47

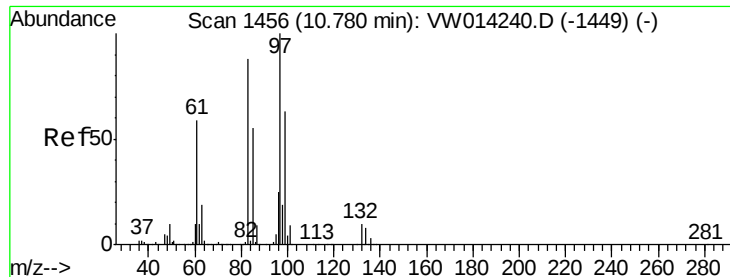
Tgt Ion: 75 Resp: 534980

Ion Ratio Lower Upper

75 100

77 33.3 21.8 40.6

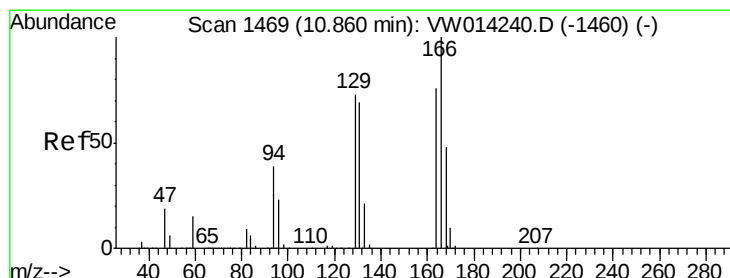
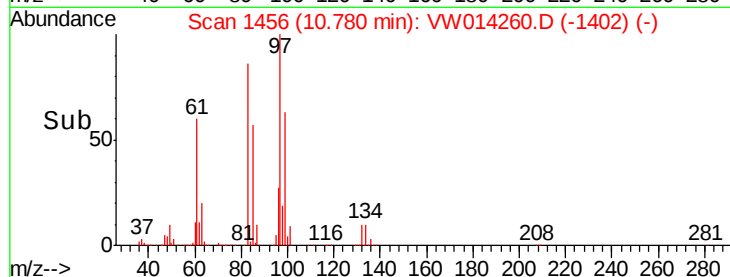
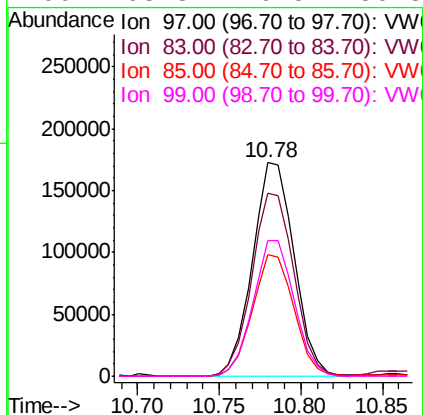
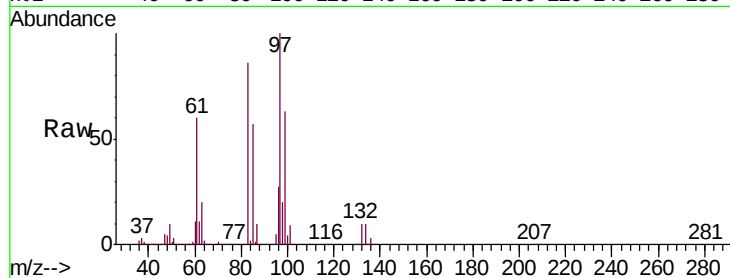




#46
 1,1,2-Trichloroethane
 Concen: 21.099 ug/L
 RT: 10.78 min Scan# 1456
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

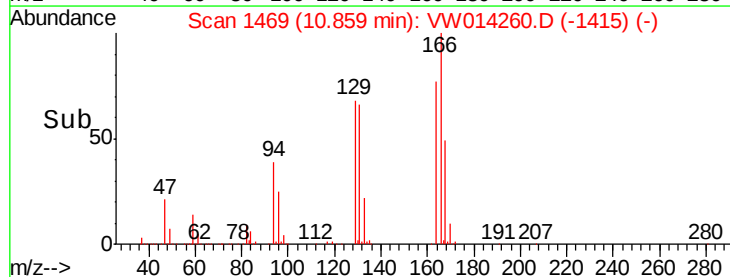
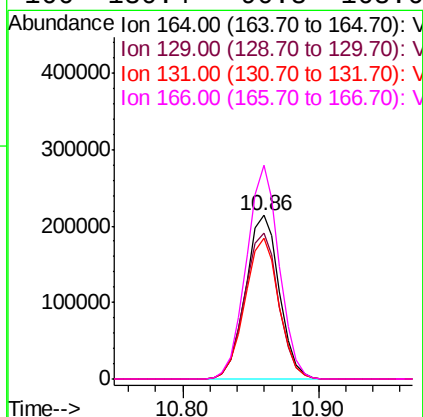
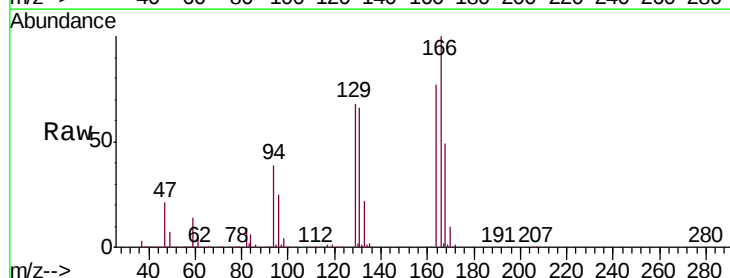
Instrument :
 MSVOA_W
 ClientSampled :
 BFB04

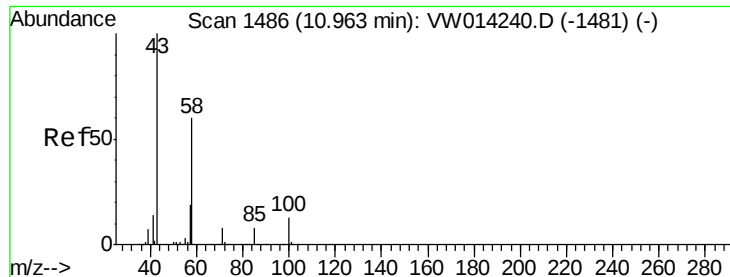
Tgt Ion:	97	Resp:	307513
Ion	Ratio	Lower	Upper
97	100		
83	85.7	58.9	109.5
85	57.0	38.1	70.9
99	63.3	46.5	86.3



#47
 Tetrachloroethene
 Concen: 23.055 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

Tgt Ion:	164	Resp:	372241
Ion	Ratio	Lower	Upper
164	100		
129	89.1	60.6	112.6
131	85.8	59.1	109.7
166	130.4	90.8	168.6

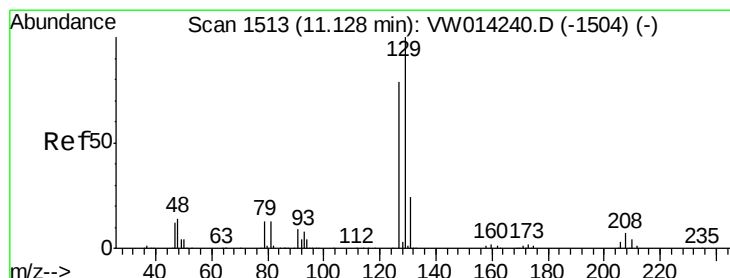
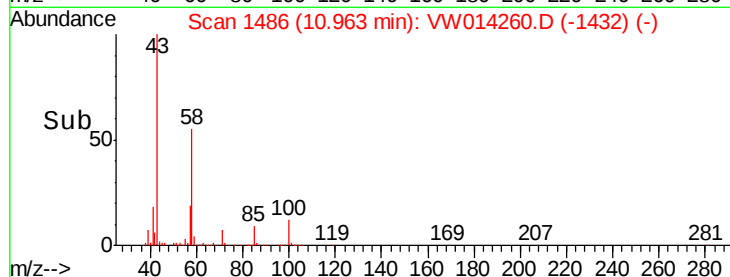
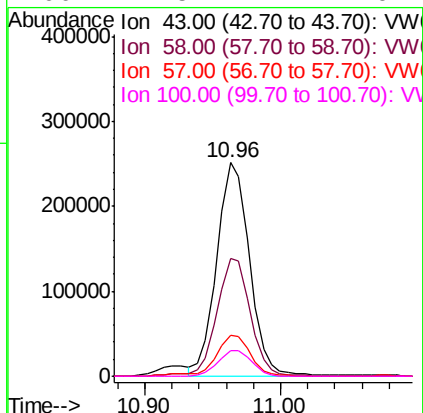
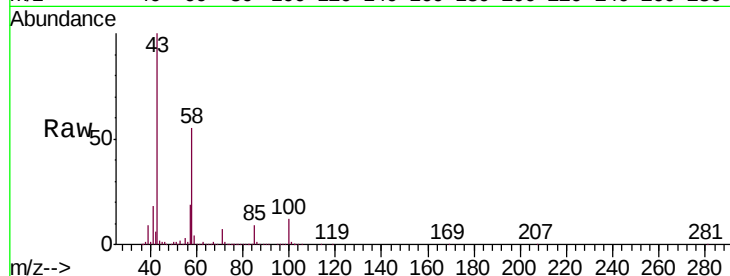




#49
2-Hexanone
Concen: 46.246 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

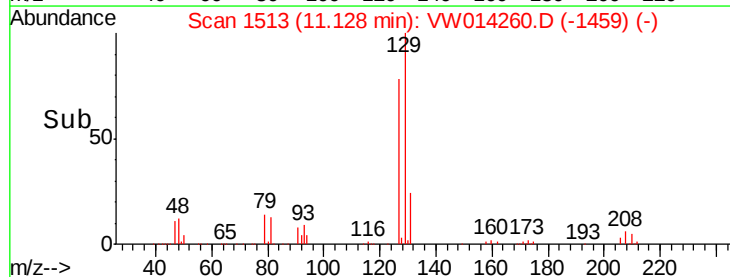
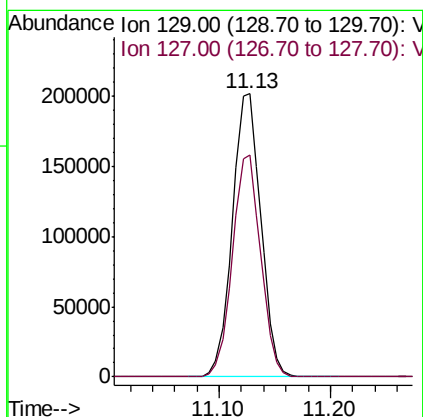
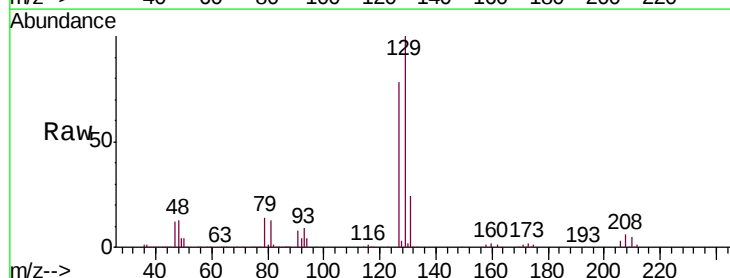
Instrument :
MSVOA_W
ClientSampleId :
BFB04

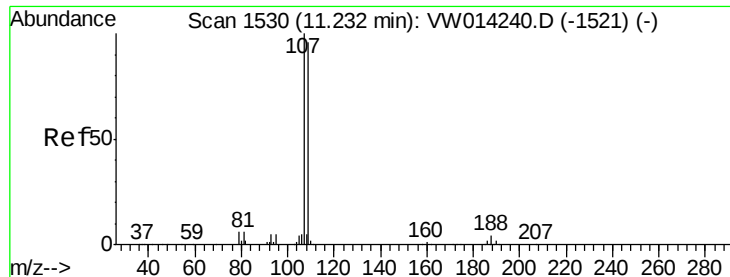
Tgt Ion: 43 Resp: 422285
Ion Ratio Lower Upper
43 100
58 55.9 44.4 66.6
57 19.4 16.5 24.7
100 12.5 11.1 16.7



#50
Dibromochloromethane
Concen: 21.828 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

Tgt Ion: 129 Resp: 357067
Ion Ratio Lower Upper
129 100
127 78.2 54.9 102.1

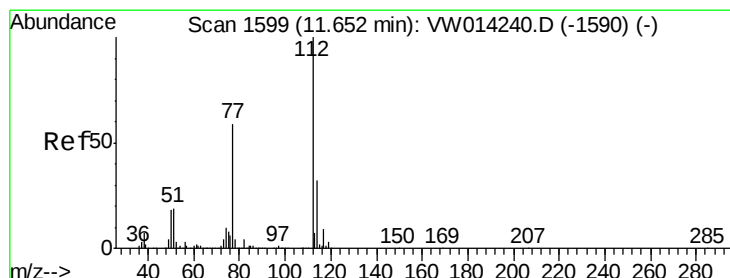
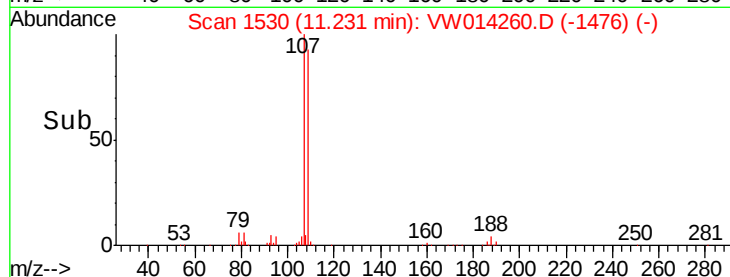
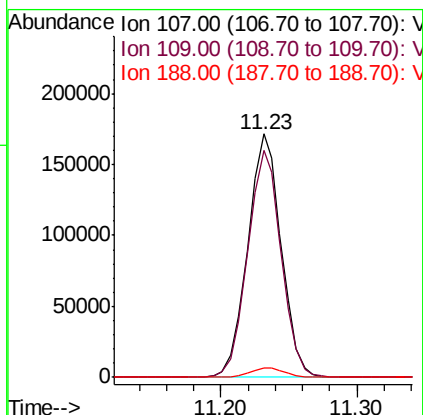
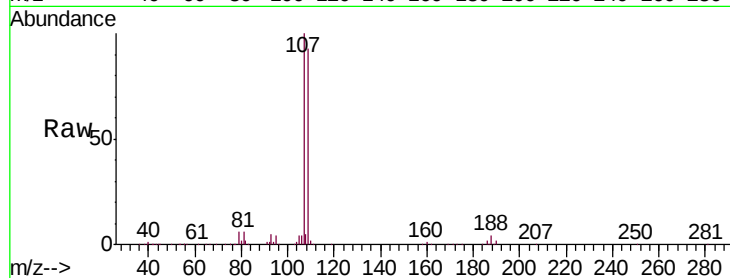




#51
1,2-Dibromoethane
Concen: 21.289 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

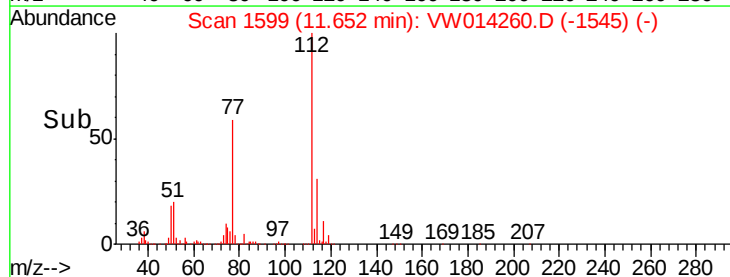
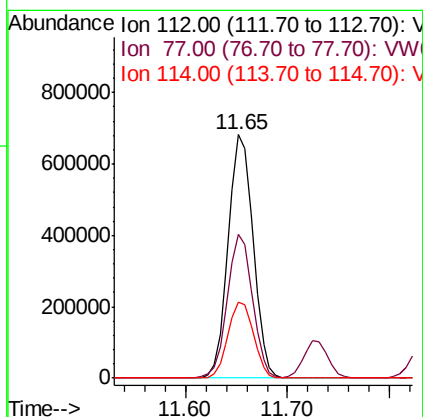
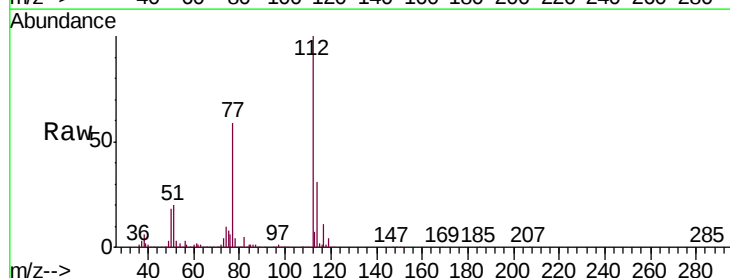
Instrument :
MSVOA_W
ClientSampleId :
BFB04

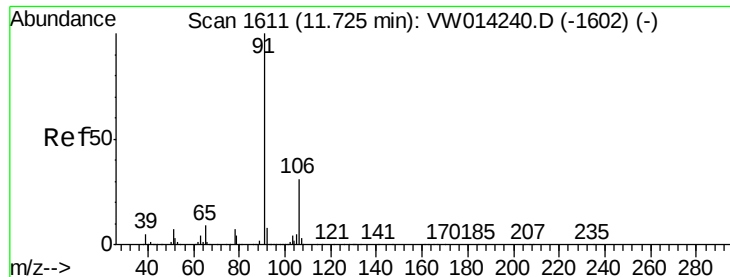
Tgt Ion:107 Resp: 293908
Ion Ratio Lower Upper
107 100
109 93.4 64.6 120.0
188 4.1 3.9 5.9



#52
Chlorobenzene
Concen: 22.455 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

Tgt Ion:112 Resp: 1151896
Ion Ratio Lower Upper
112 100
77 58.9 42.2 63.4
114 31.4 22.5 41.9





#53

Ethylbenzene

Concen: 23.535 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampled :

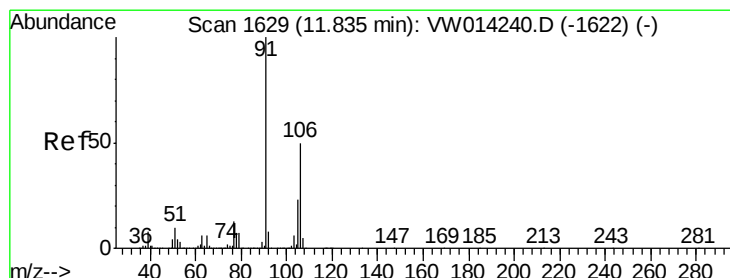
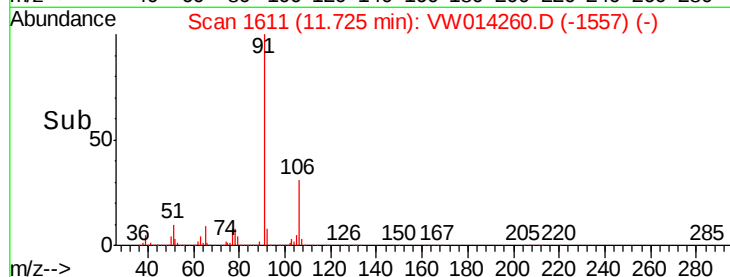
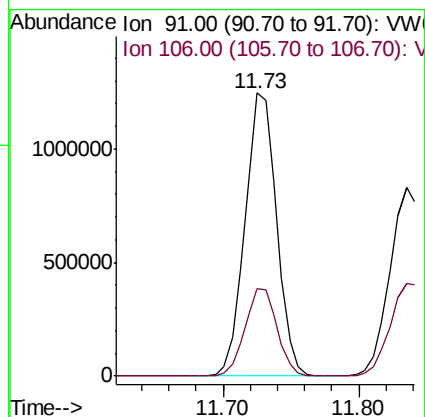
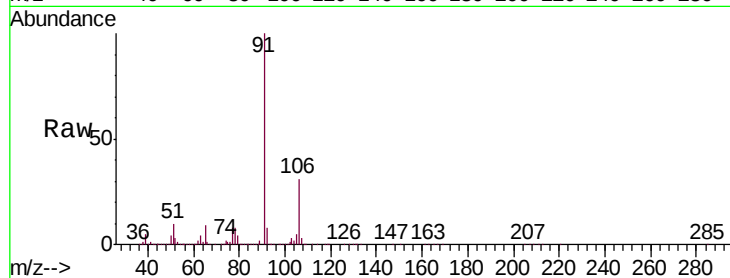
BFB04

Tgt Ion: 91 Resp: 2026982

Ion Ratio Lower Upper

91 100

106 30.9 22.3 41.5



#54

m,p-Xylene

Concen: 23.404 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014260.D

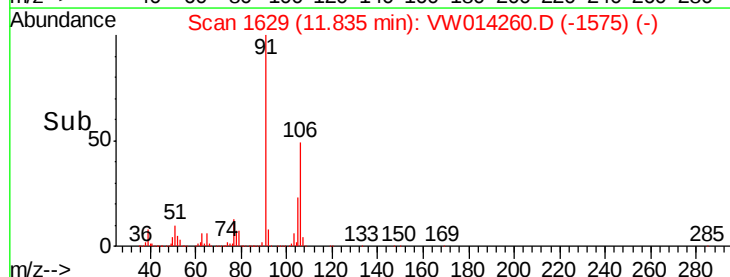
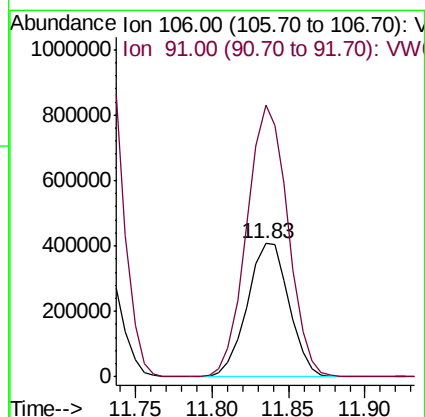
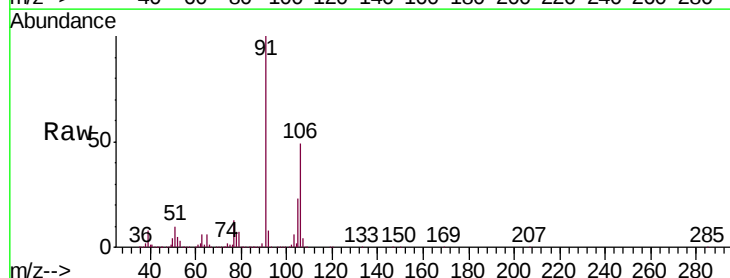
Acq: 09 Dec 2019 10:47

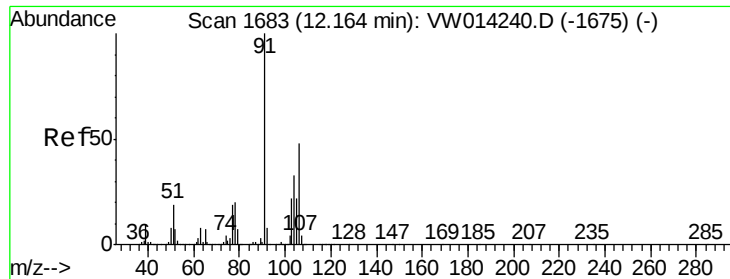
Tgt Ion: 106 Resp: 775391

Ion Ratio Lower Upper

106 100

91 203.9 138.7 257.5

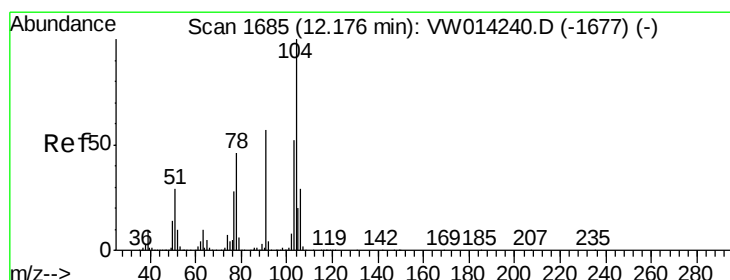
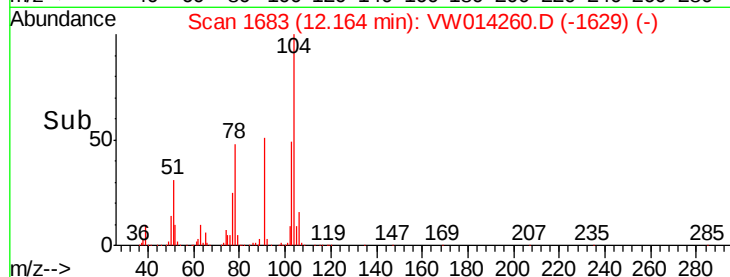
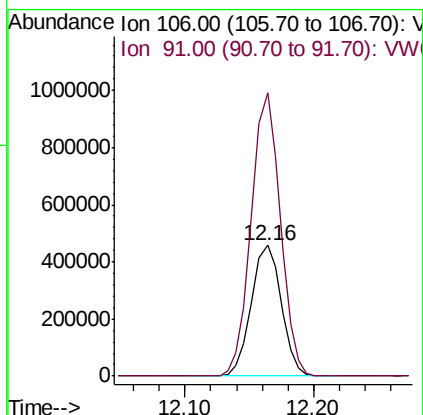
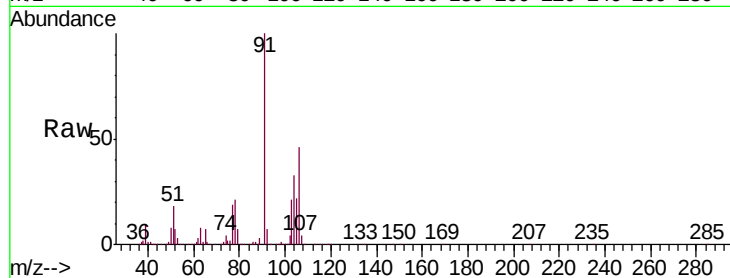




#55
o-xylene
Concen: 23.445 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

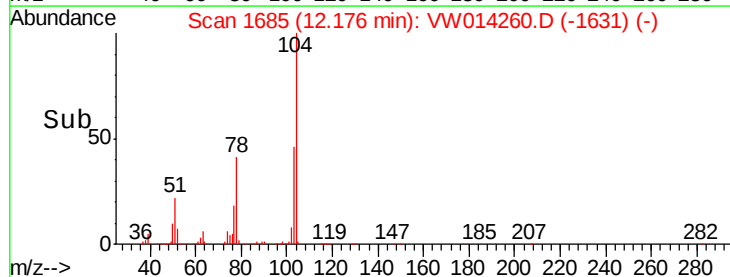
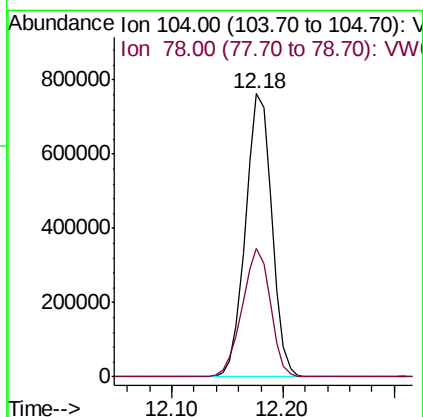
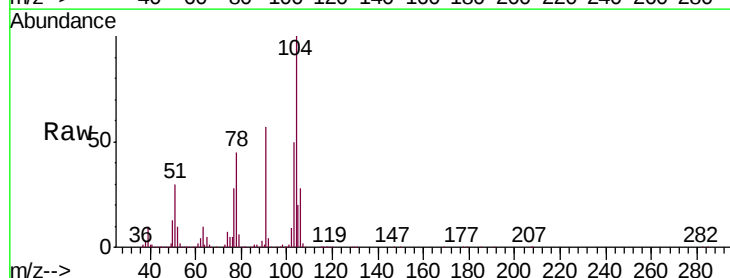
Instrument :
MSVOA_W
ClientSampleId :
BFB04

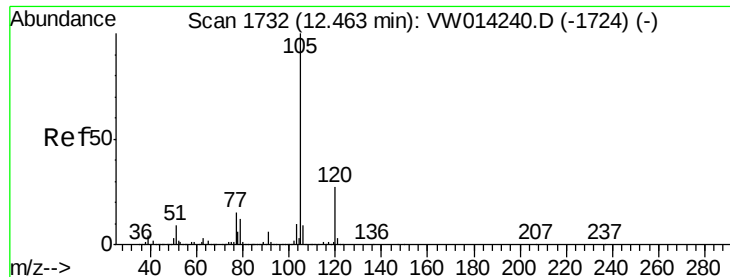
Tgt Ion:106 Resp: 736730
Ion Ratio Lower Upper
106 100
91 216.9 148.3 275.5



#56
Styrene
Concen: 23.365 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW014260.D
Acq: 09 Dec 2019 10:47

Tgt Ion:104 Resp: 1256109
Ion Ratio Lower Upper
104 100
78 45.4 30.6 56.8





#57

Isopropylbenzene

Concen: 24.095 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

BFB04

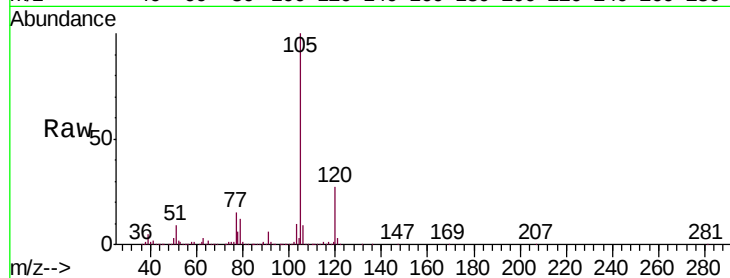
Tgt Ion: 105 Resp: 1965691

Ion Ratio Lower Upper

105 100

120 26.6 21.6 32.4

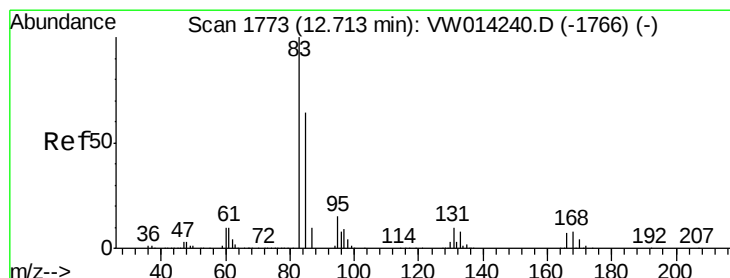
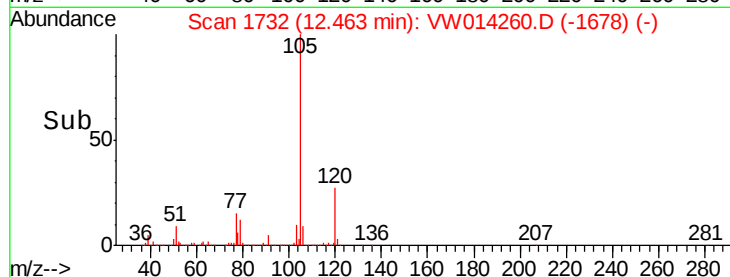
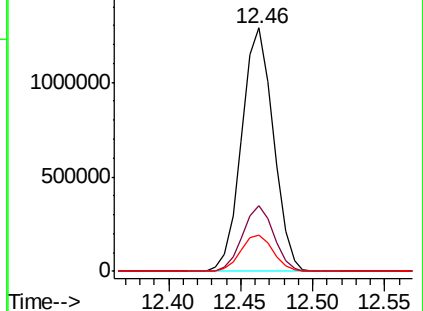
77 15.1 11.6 17.4



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: 20.758 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

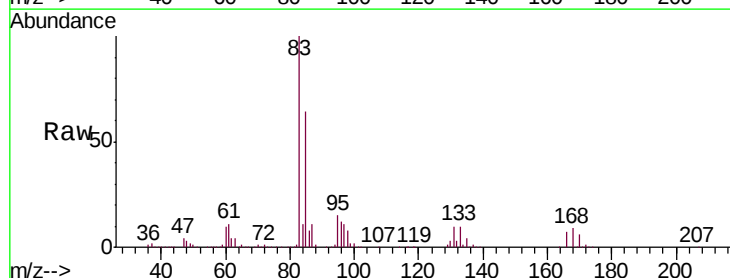
Tgt Ion: 83 Resp: 375518

Ion Ratio Lower Upper

83 100

85 64.0 43.7 81.1

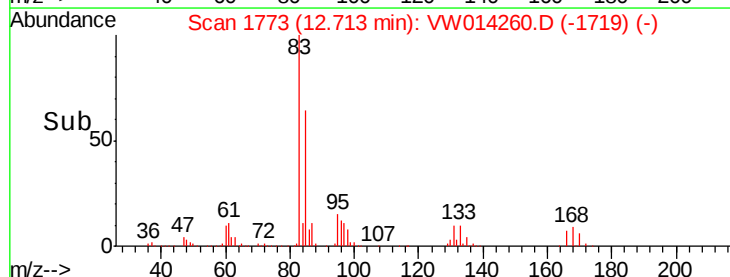
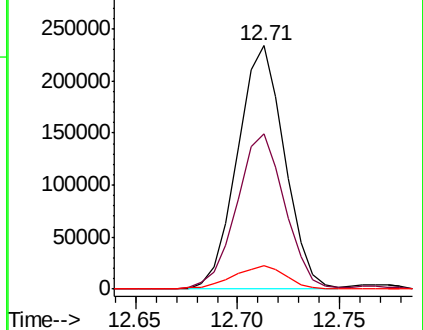
131 9.8 8.2 12.2

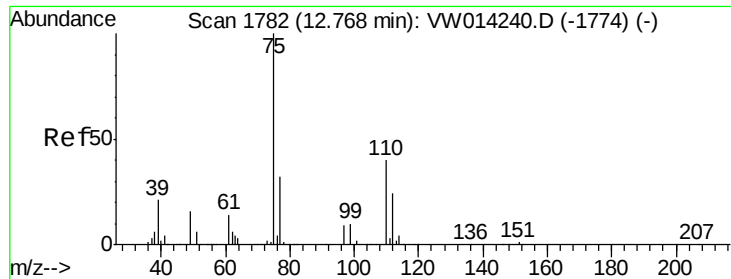


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 20.769 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

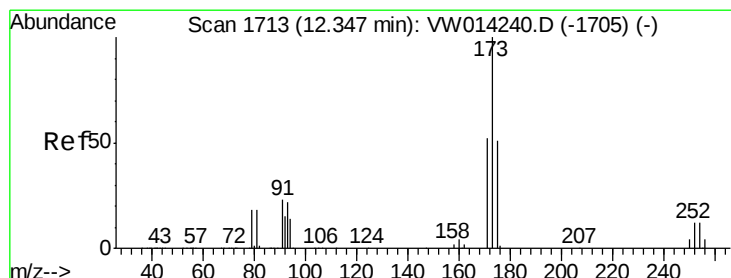
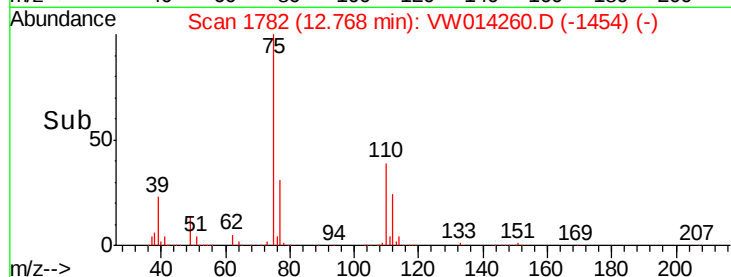
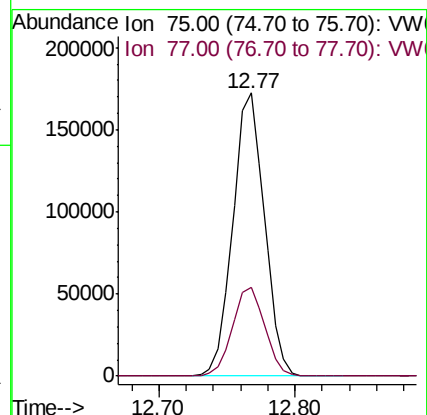
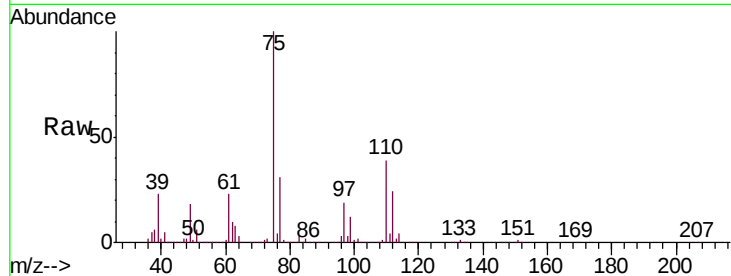
BFB04

Tgt Ion: 75 Resp: 279186

Ion Ratio Lower Upper

75 100

77 32.0 25.9 38.9



#62

Bromoform

Concen: 21.034 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

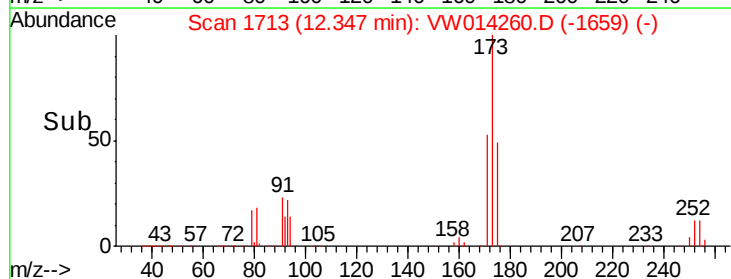
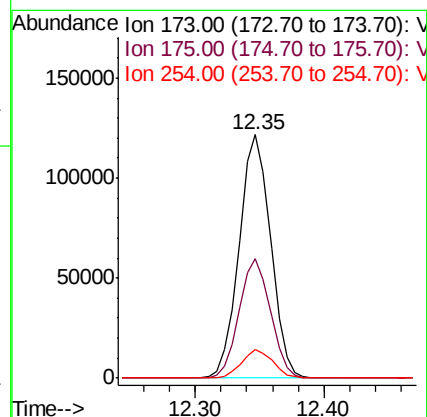
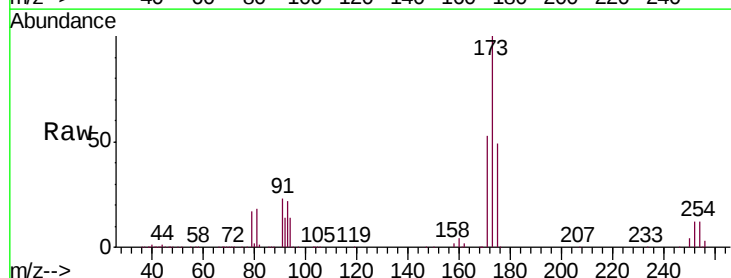
Tgt Ion: 173 Resp: 206316

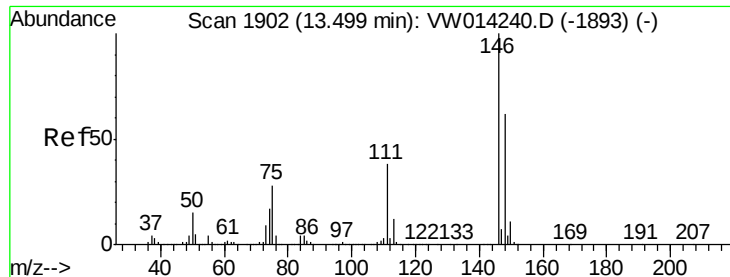
Ion Ratio Lower Upper

173 100

175 49.0 38.8 58.2

254 11.4 9.4 14.0

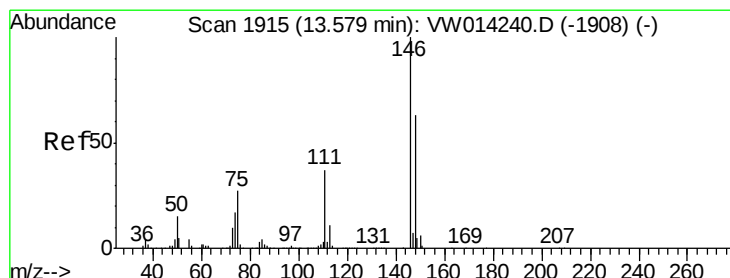
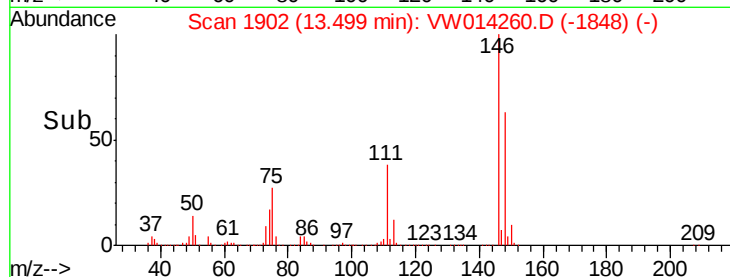
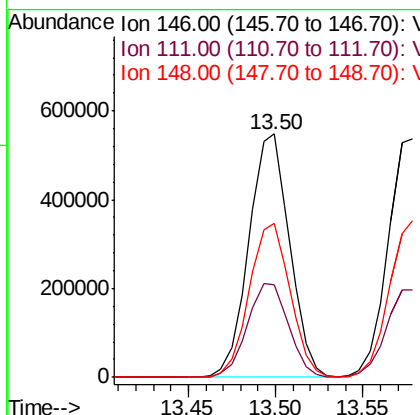
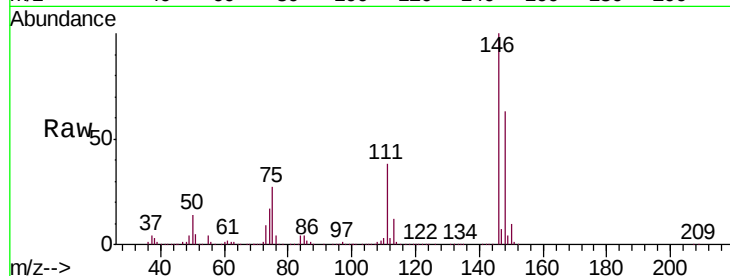




#63
 1,3-Dichlorobenzene
 Concen: 22.826 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

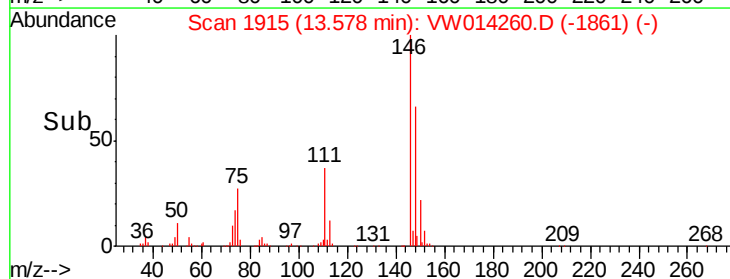
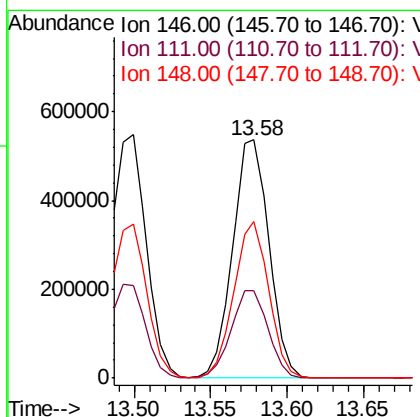
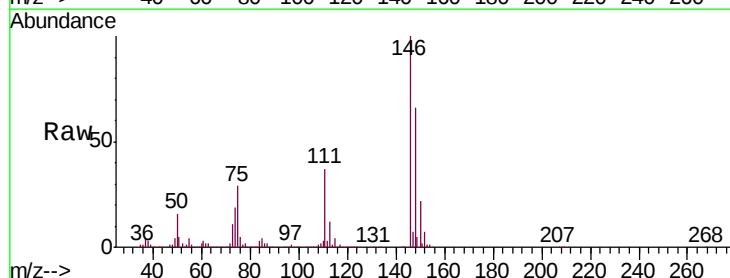
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB04

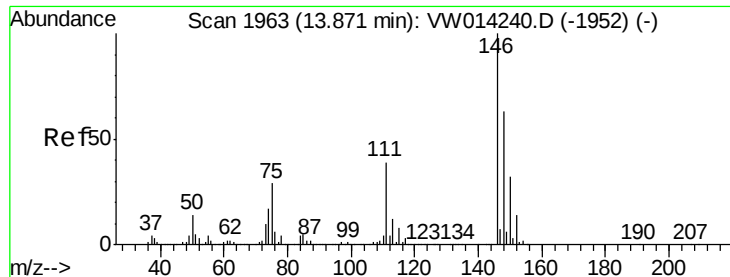
Tgt Ion:146 Resp: 886640
 Ion Ratio Lower Upper
 146 100
 111 38.1 26.0 48.2
 148 63.3 44.7 82.9



#64
 1,4-Dichlorobenzene
 Concen: 22.355 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

Tgt Ion:146 Resp: 882268
 Ion Ratio Lower Upper
 146 100
 111 37.0 24.9 46.3
 148 65.9 43.9 81.5





#65

1,2-Dichlorobenzene

Concen: 21.952 ug/L

RT: 13.86 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

BFB04

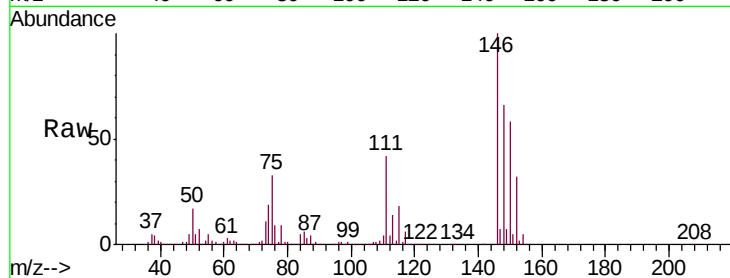
Tgt Ion:146 Resp: 792984

Ion Ratio Lower Upper

146 100

111 41.9 30.5 45.7

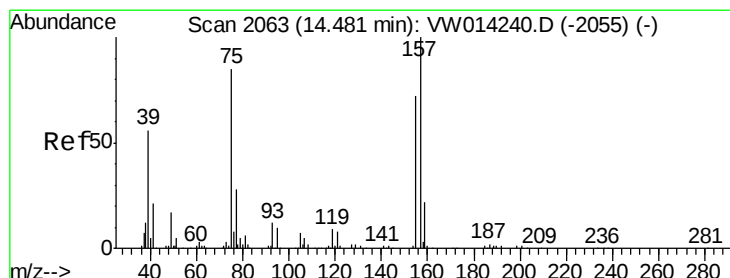
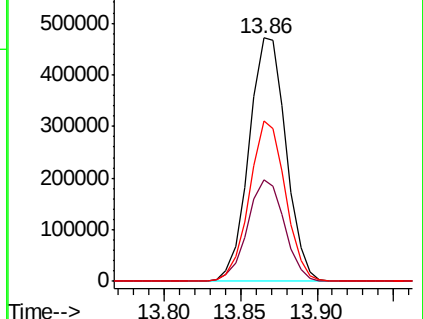
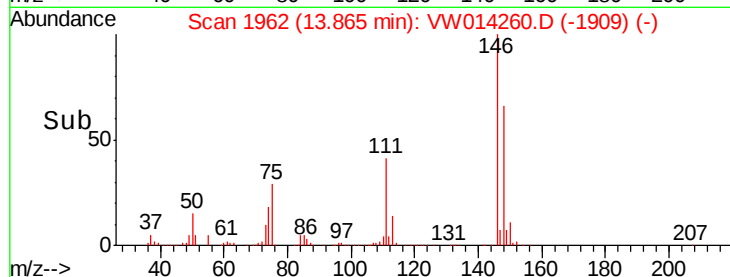
148 65.7 49.4 74.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 20.771 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

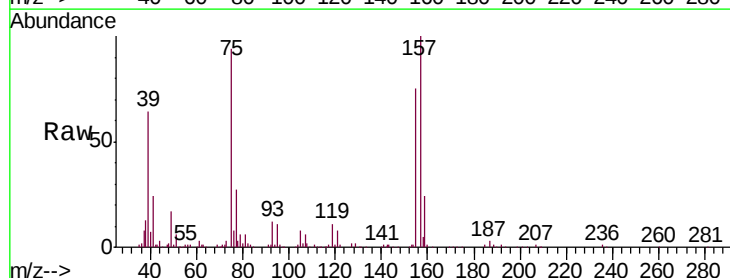
Tgt Ion: 75 Resp: 57879

Ion Ratio Lower Upper

75 100

157 106.9 96.9 145.3

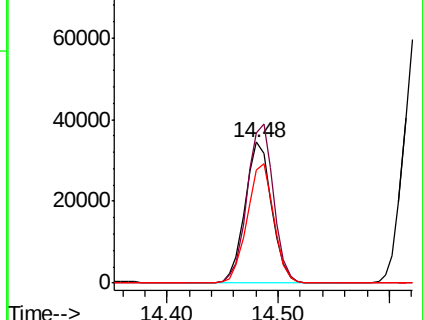
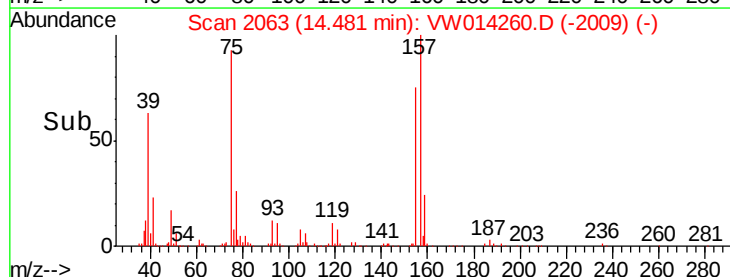
155 80.5 82.9 124.3#

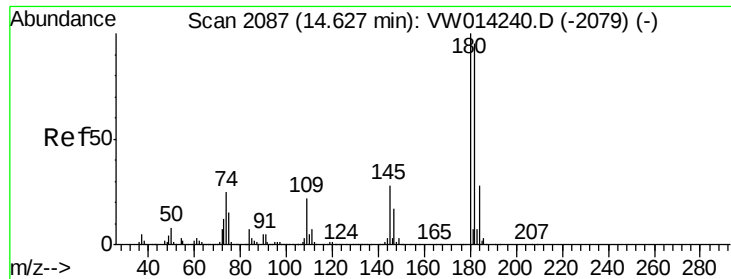


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

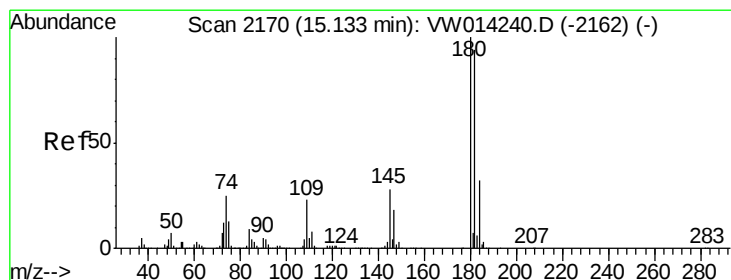
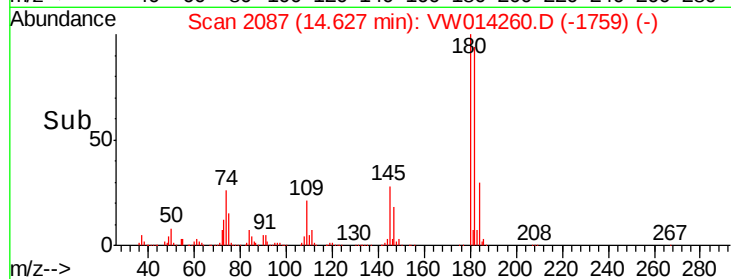
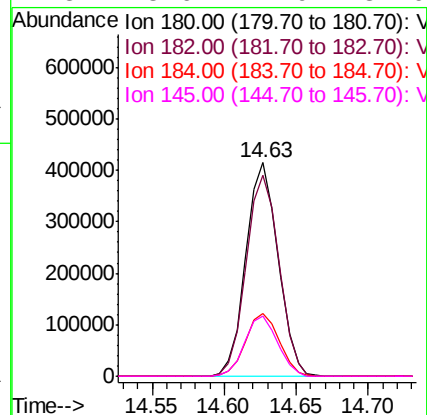
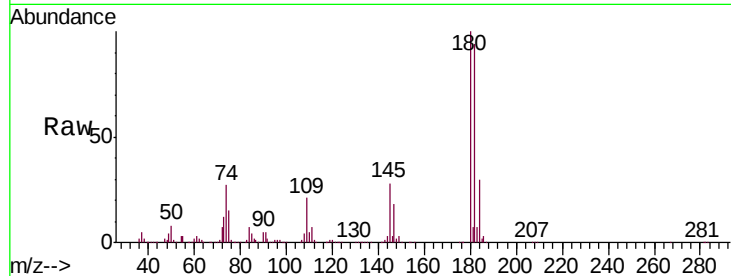




#67
 1,3,5-Trichlorobenzene
 Concen: 23.023 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

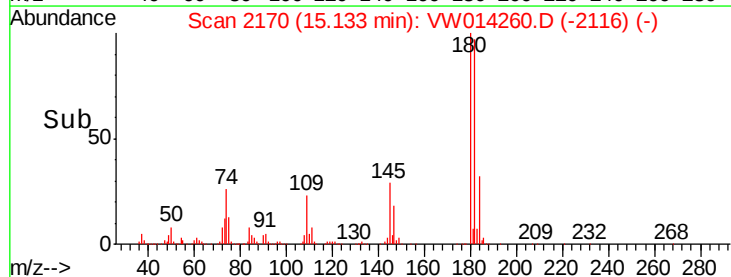
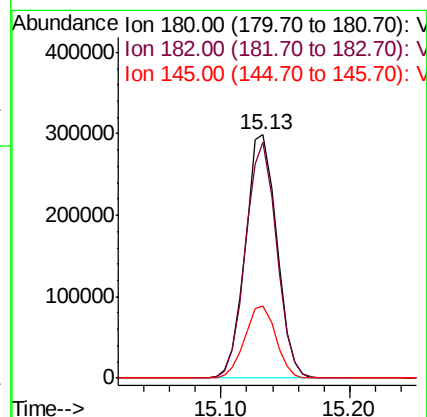
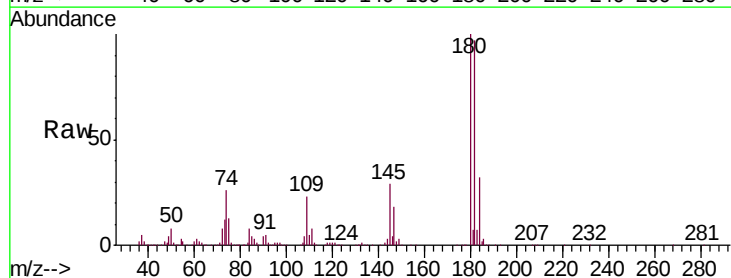
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB04

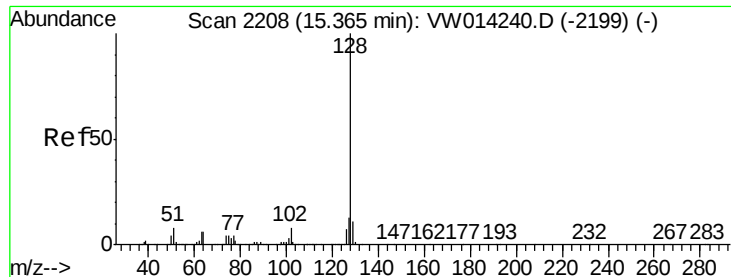
Tgt Ion:	180	Resp:	643429
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.2	114.2
184	30.6	24.3	36.5
145	28.6	21.9	32.9



#68
 1,2,4-trichlorobenzene
 Concen: 23.098 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014260.D
 Acq: 09 Dec 2019 10:47

Tgt Ion:	180	Resp:	503236
Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.8	113.8
145	29.5	22.4	33.6





#69

Naphthalene

Concen: 22.439 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

Instrument :

MSVOA_W

ClientSampleId :

BFB04

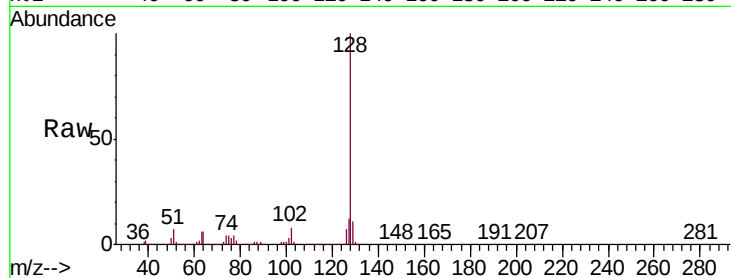
Tgt Ion:128 Resp: 919341

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

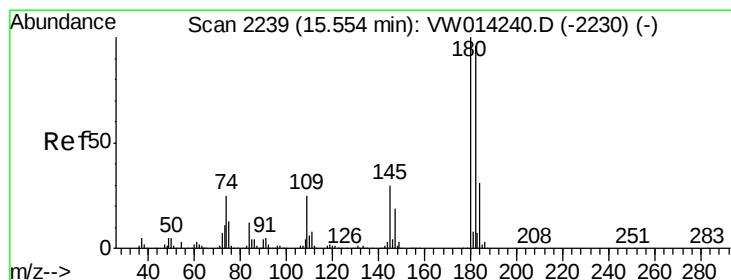
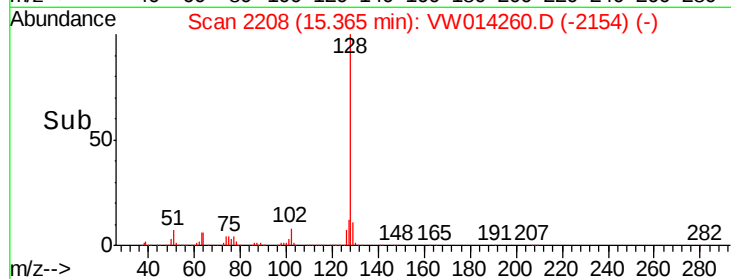
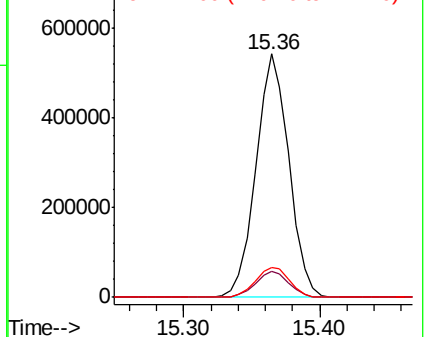
127 12.8 10.4 15.6



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: 21.941 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014260.D

Acq: 09 Dec 2019 10:47

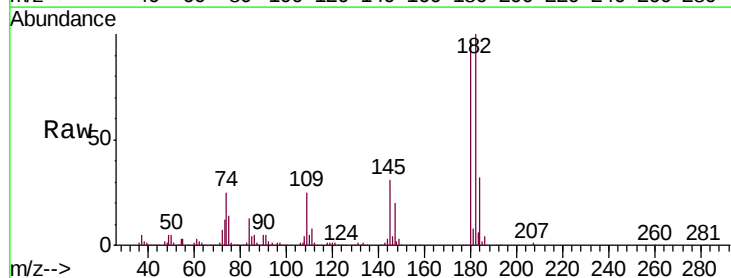
Tgt Ion:180 Resp: 448274

Ion Ratio Lower Upper

180 100

182 96.7 75.8 113.6

145 30.9 24.0 36.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

