

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011520\
 Data File : VW014661.D
 Acq On : 15 Jan 2020 19:41
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 16 01:22:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jan 16 01:18:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1075784	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	946946	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	470980	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	310566	20.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	81.92%
7) Chloroethane-d5	2.89	69	264479	23.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.68%
10) 1,1-Dichloroethene-d2	4.02	63	645677	23.28	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	93.12%
20) 2-Butanone-d5	7.07	46	213800	59.25	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	118.50%
24) Chloroform-d	7.65	84	611322	24.70	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	8.31	65	314812	24.51	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.04%
29) Benzene-d6	8.27	84	1312965	26.07	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.28%
33) 1,2-Dichloropropane-d6	9.27	67	397922	26.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.12%
37) Toluene-d8	10.32	98	1195974	26.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.80%
38) trans-1,3-Dichloropropene-	10.57	79	161811	25.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	103.48%
39) 2-Hexanone-d5	10.92	63	167287	64.62	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	129.24%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	328830	28.92	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	115.68%
61) 1,2-Dichlorobenzene-d4	13.85	152	416702	26.85	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	107.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	220412	22.903	ug/L	96
3) Chloromethane	2.21	50	229742	21.116	ug/L	98
5) Vinyl chloride	2.36	62	394807	25.503	ug/L	98
6) Bromomethane	2.78	94	232287	25.696	ug/L	100
8) Chloroethane	2.92	64	227334	26.261	ug/L	99
9) Trichlorofluoromethane	3.26	101	186390	22.763	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	365059	25.970	ug/L	100
12) 1,1-Dichloroethene	4.04	96	361215	26.242	ug/L	91
13) Acetone	4.12	43	192140	38.456	ug/L	96
14) Carbon disulfide	4.39	76	1052403	24.764	ug/L	99
15) Methyl Acetate	4.67	43	196863	29.199	ug/L	99
16) Methylene chloride	4.92	84	381970	21.774	ug/L	99
17) Methyl tert-butyl Ether	5.42	73	535455	30.222	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	376675	25.977	ug/L	98
19) 1,1-Dichloroethane	6.21	63	677954	25.865	ug/L	98
21) 2-Butanone	7.17	43	271890	50.720	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	411093	26.934	ug/L	96

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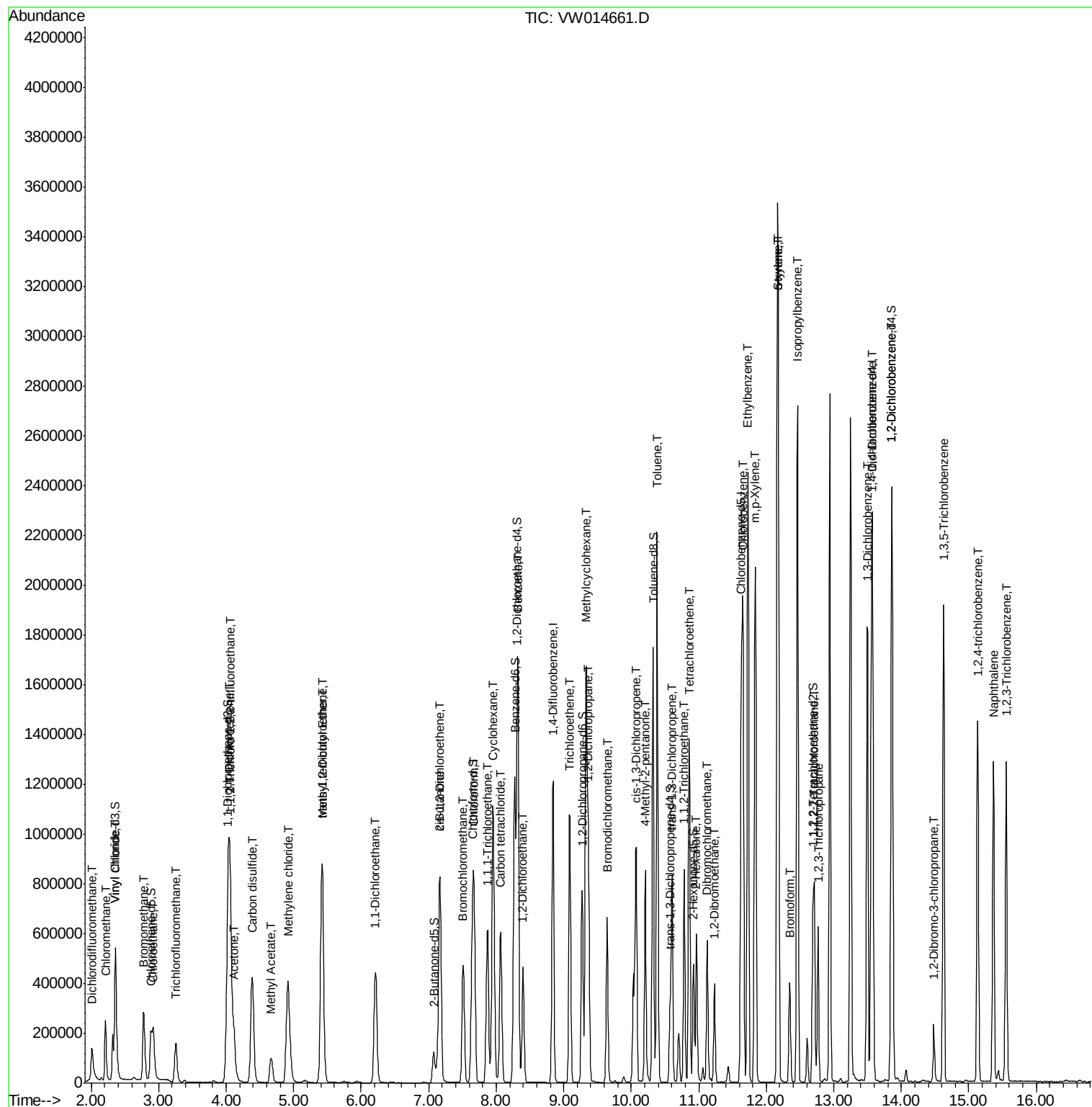
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	179780	27.209	ug/L	94
25) Chloroform	7.67	83	656690	26.193	ug/L	99
27) 1,2-Dichloroethane	8.40	62	415485	25.529	ug/L	100
30) Cyclohexane	7.95	56	675418	27.884	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	511333	26.324	ug/L	99
32) Carbon tetrachloride	8.07	117	470448	25.994	ug/L	99
34) Benzene	8.32	78	1546793	27.143	ug/L	100
35) Trichloroethene	9.09	95	394006	26.790	ug/L	98
36) Methylcyclohexane	9.34	83	721663	27.969	ug/L	98
40) 1,2-Dichloropropane	9.37	63	383873	26.615	ug/L	100
41) Bromodichloromethane	9.64	83	463529	26.717	ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	593100	27.528	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	552902	59.714	ug/L	99
44) Toluene	10.38	91	1652063	27.742	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	472143	27.406	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	283264	27.727	ug/L	97
47) Tetrachloroethene	10.86	164	337106	27.298	ug/L	97
49) 2-Hexanone	10.96	43	389604	61.619	ug/L	99
50) Dibromochloromethane	11.13	129	323179	27.859	ug/L	95
51) 1,2-Dibromoethane	11.23	107	277885	28.815	ug/L	99
52) Chlorobenzene	11.65	112	1030589	27.377	ug/L	97
53) Ethylbenzene	11.73	91	1815696	27.730	ug/L	99
54) m,p-Xylene	11.83	106	699978	28.250	ug/L	99
55) o-xylene	12.16	106	657146	28.078	ug/L	100
56) Styrene	12.18	104	1128571	28.650	ug/L	98
57) Isopropylbenzene	12.46	105	1787082	28.706	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	361600	29.151	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	269190	28.969	ug/L	99
62) Bromoform	12.35	173	191581	27.221	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	820473	27.516	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	801093	26.644	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	746531	27.928	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.48	75	58185	29.394	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	646812	29.283	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	522364	31.547	ug/L	100
69) Naphthalene	15.36	128	1099810	38.474	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	478677	31.902	ug/L	100

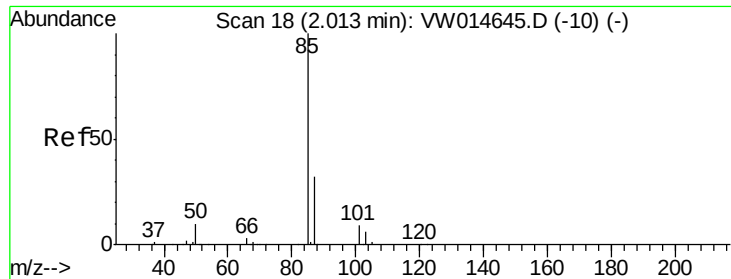
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.903 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

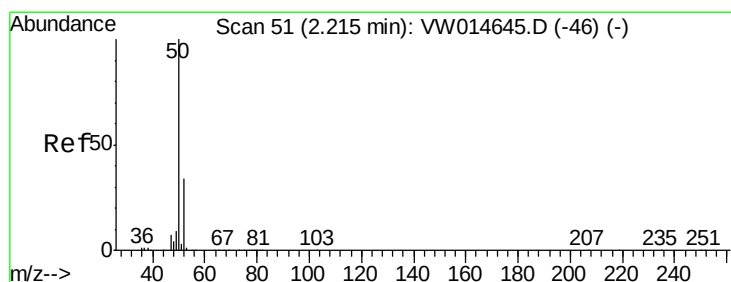
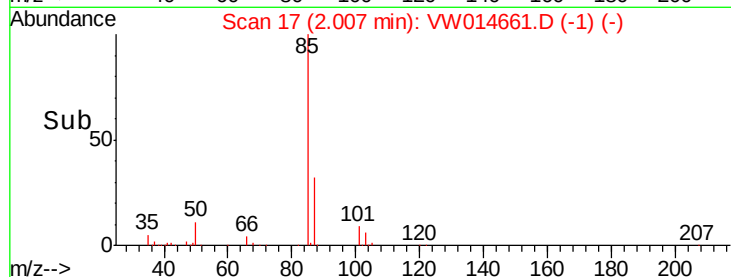
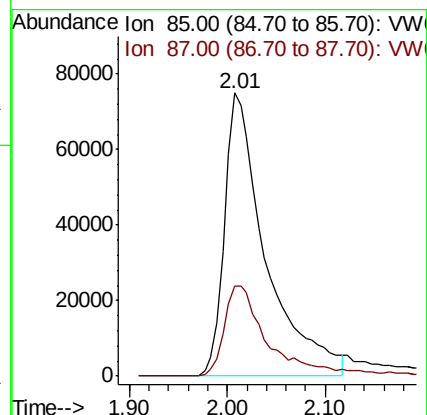
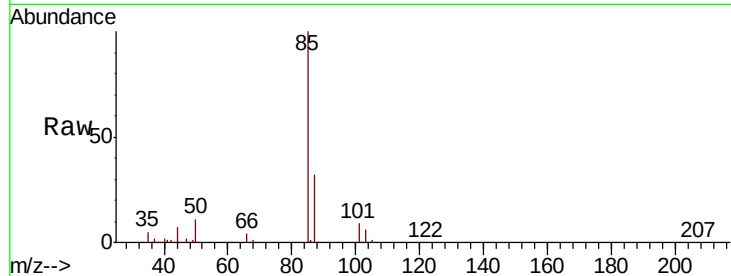
ClientSampled :

Tot Ion: 85 Resp: 220412

Ion Ratio Lower Upper

85 100

87 28.4 21.5 39.9



#3

Chloromethane

Concen: 21.116 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW014661.D

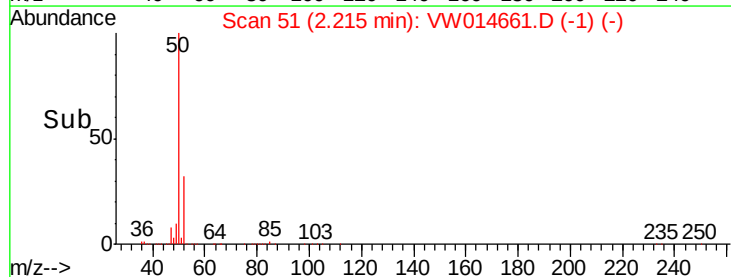
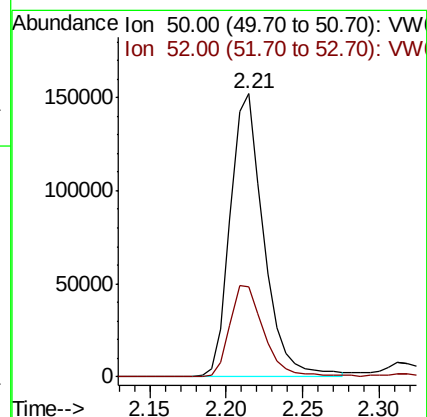
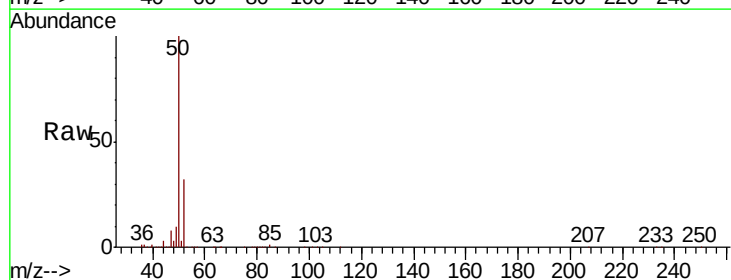
Acq: 15 Jan 2020 19:41

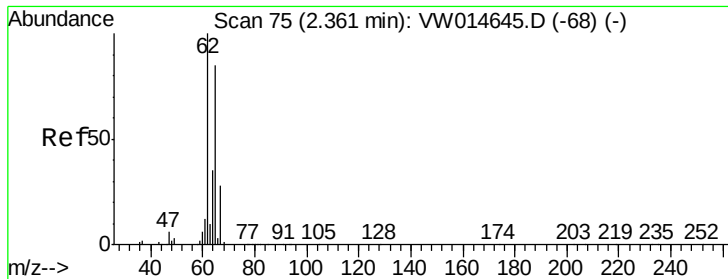
Tgt Ion: 50 Resp: 229742

Ion Ratio Lower Upper

50 100

52 31.7 23.0 42.8





#5

Vinyl chloride

Concen: 25.503 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

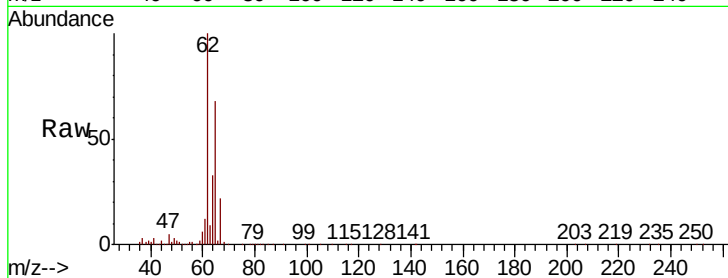
ClientSampleId :

Tot Ion: 62 Resp: 394807

Ion Ratio Lower Upper

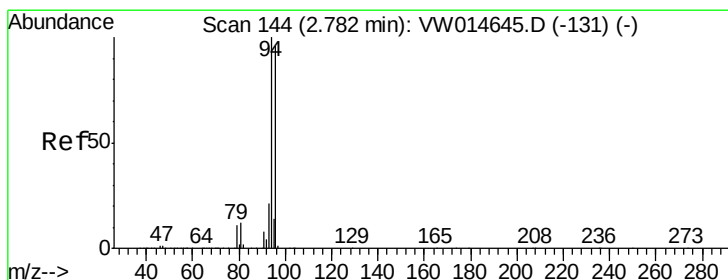
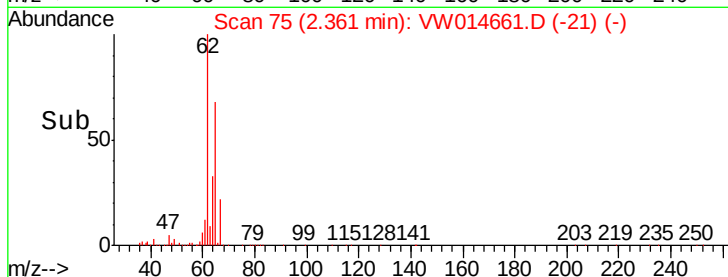
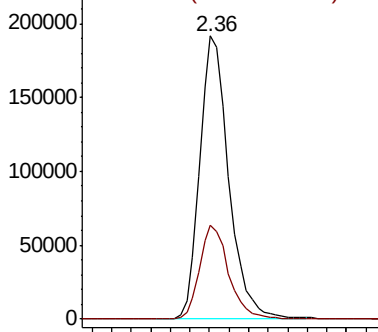
62 100

64 33.2 24.1 44.8



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 25.696 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW014661.D

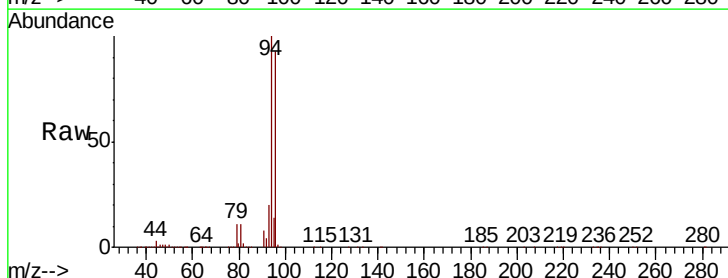
Acq: 15 Jan 2020 19:41

Tgt Ion: 94 Resp: 232287

Ion Ratio Lower Upper

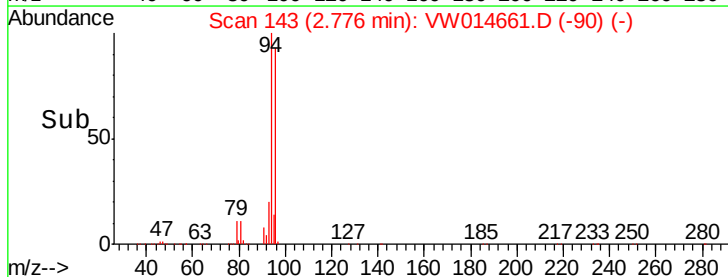
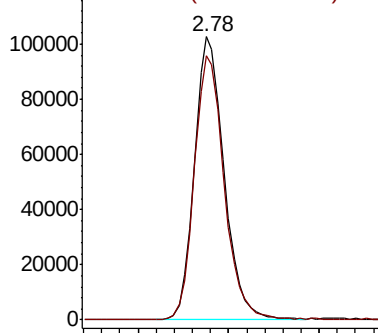
94 100

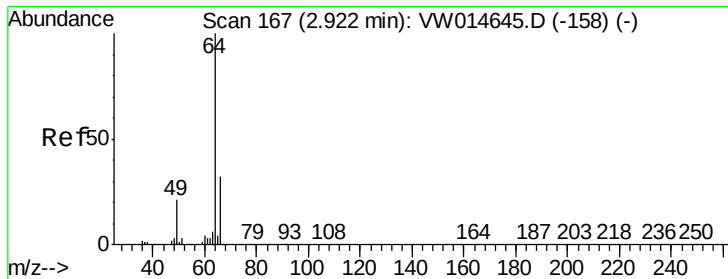
96 94.1 9.4 178.8



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 26.261 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

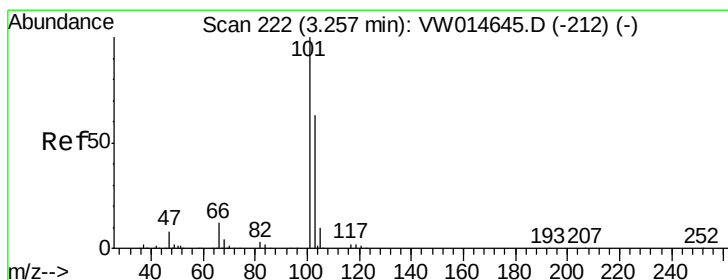
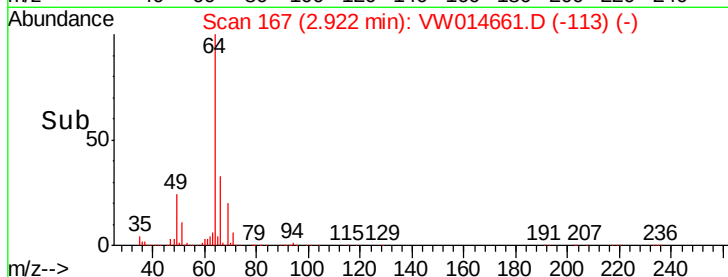
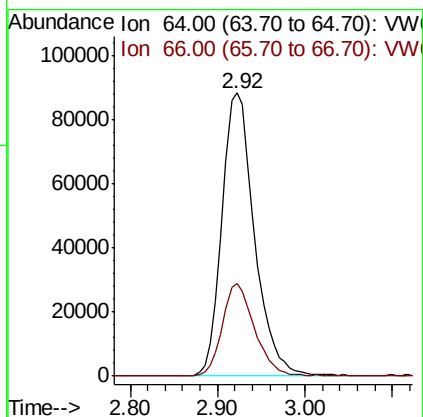
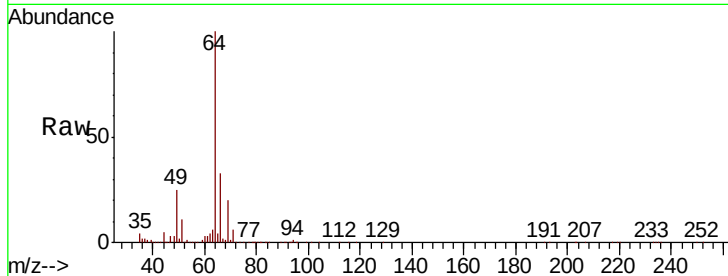
ClientSampleId :

Tot Ion: 64 Resp: 227334

Ion Ratio Lower Upper

64 100

66 32.9 22.5 41.7



#9

Trichlorofluoromethane

Concen: 22.763 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW014661.D

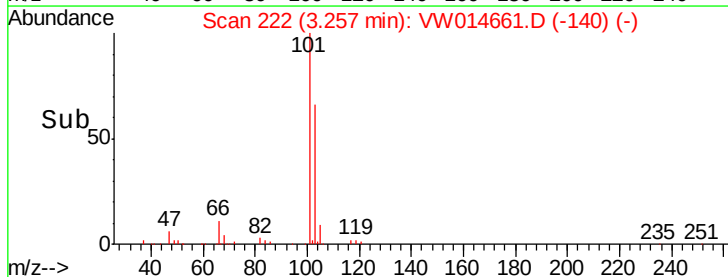
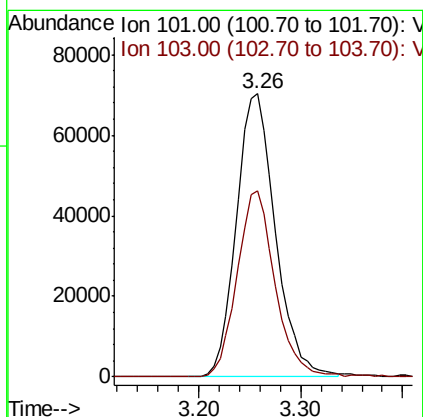
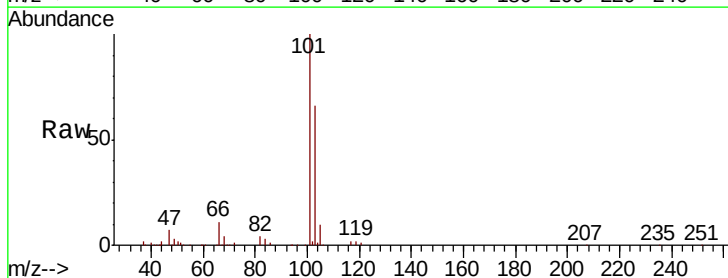
Acq: 15 Jan 2020 19:41

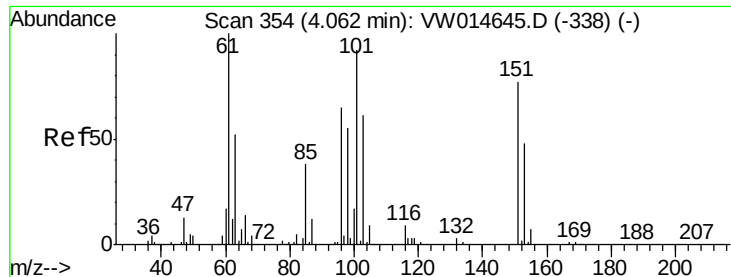
Tgt Ion: 101 Resp: 186390

Ion Ratio Lower Upper

101 100

103 63.8 45.5 84.5





#11

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

Concen: 25.970 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

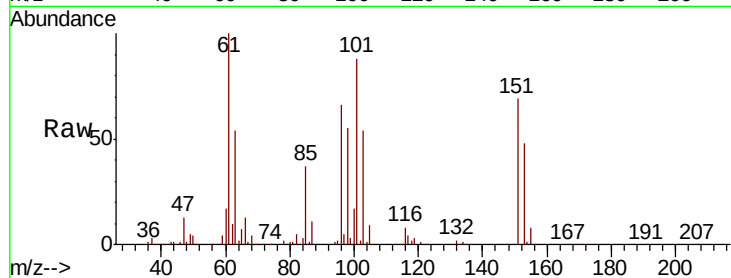
Tot Ion:101 Resp: 365059

Ion Ratio Lower Upper

101 100

85 41.5 33.3 49.9

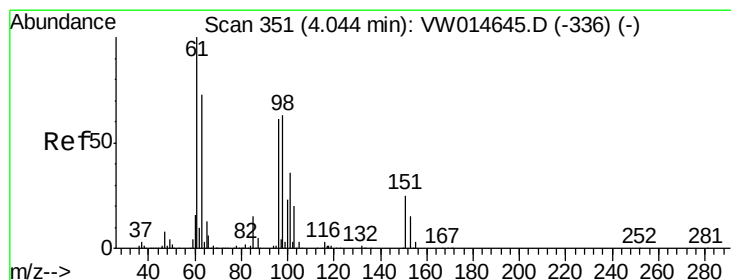
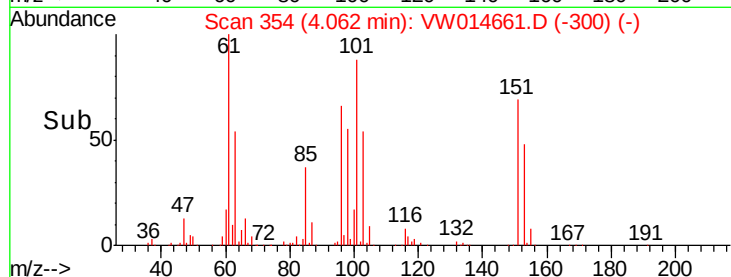
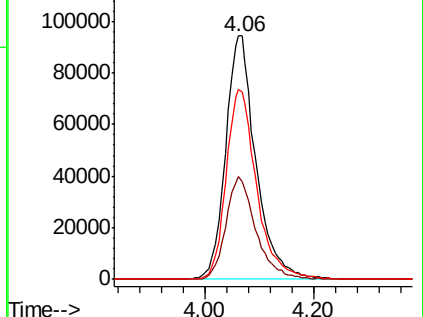
151 78.5 62.5 93.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.242 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

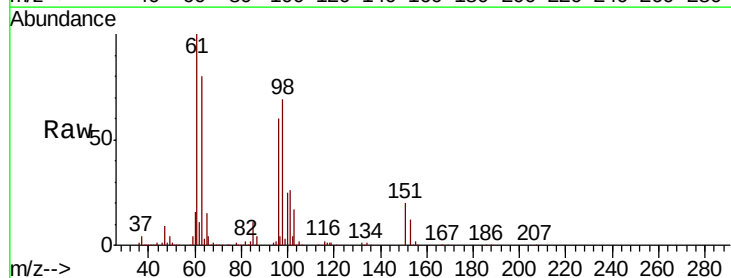
Tgt Ion: 96 Resp: 361215

Ion Ratio Lower Upper

96 100

61 166.6 114.2 212.0

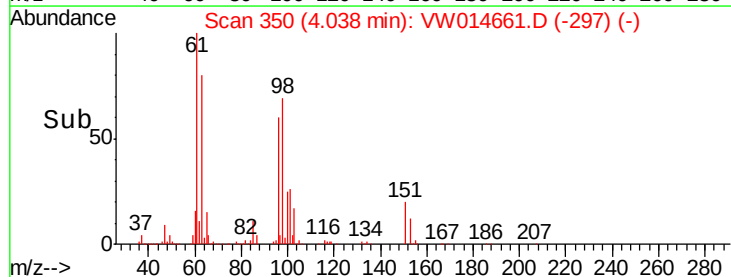
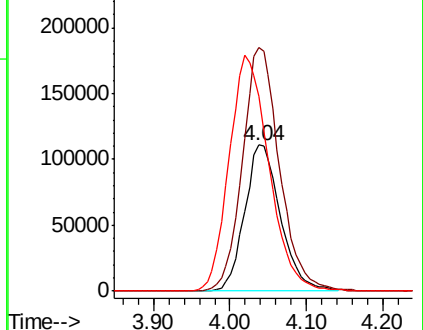
63 133.1 78.6 146.0

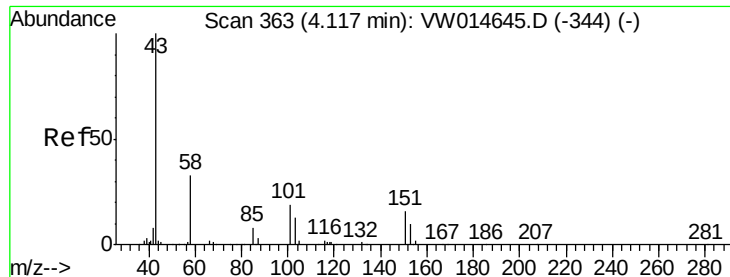


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 38.456 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

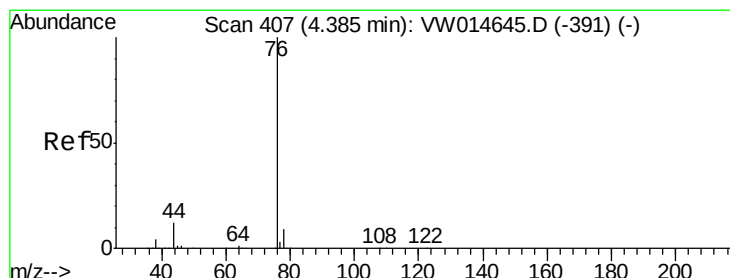
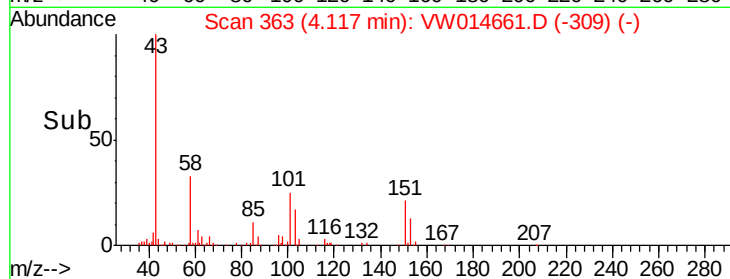
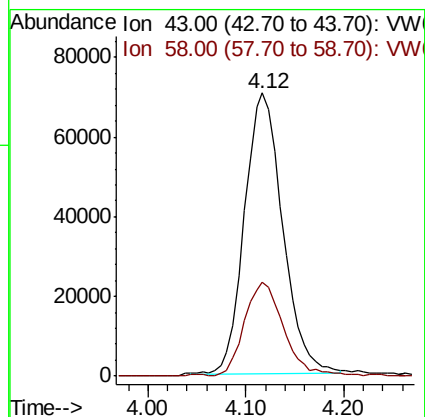
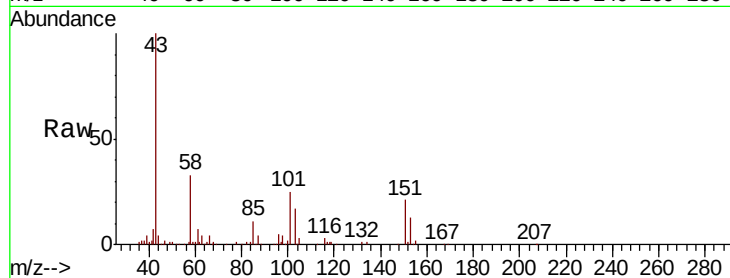
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 192140

Ion Ratio Lower Upper

43 100

58 34.2 0.0 64.0



#14

Carbon disulfide

Concen: 24.764 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW014661.D

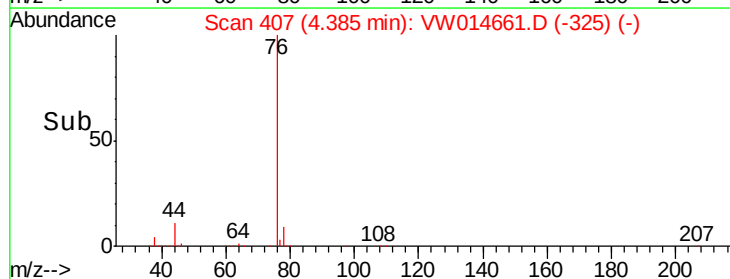
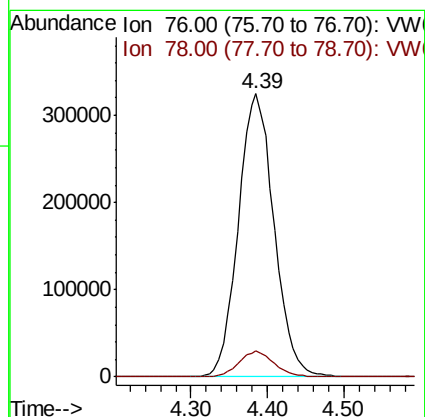
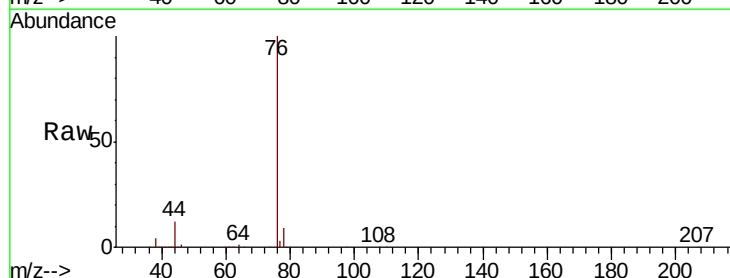
Acq: 15 Jan 2020 19:41

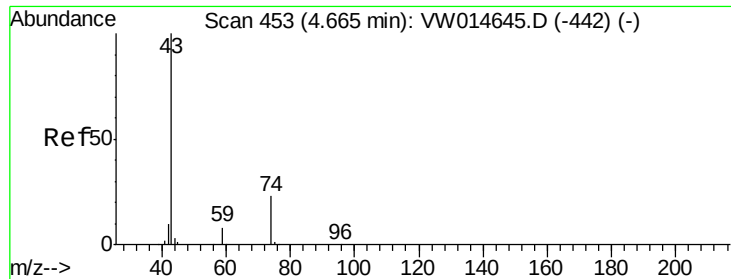
Tgt Ion: 76 Resp: 1052403

Ion Ratio Lower Upper

76 100

78 9.1 6.9 10.3

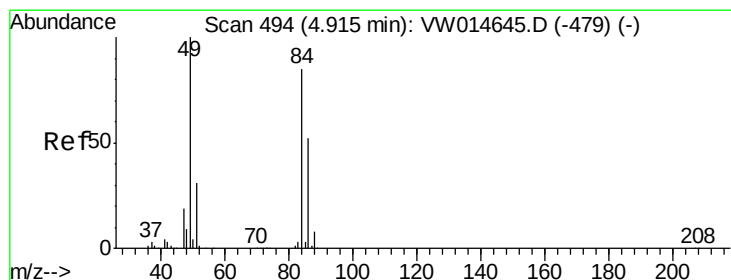
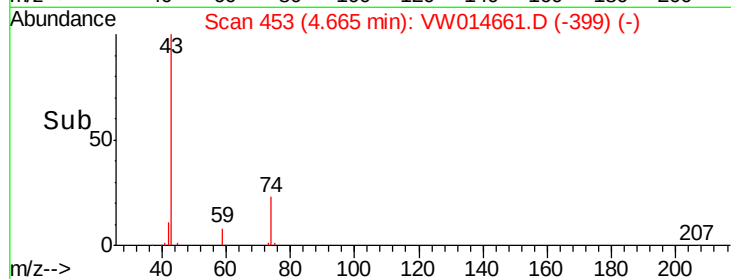
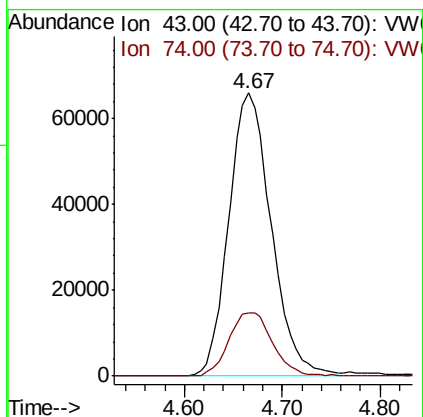
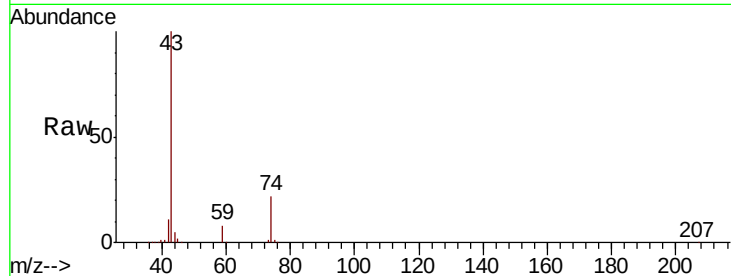




#15
Methyl Acetate
Concen: 29.199 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

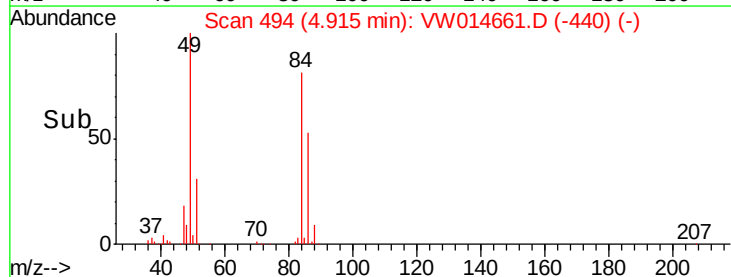
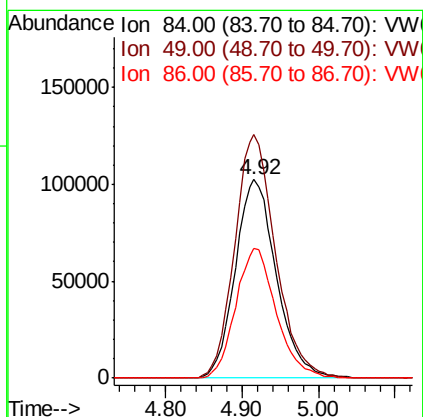
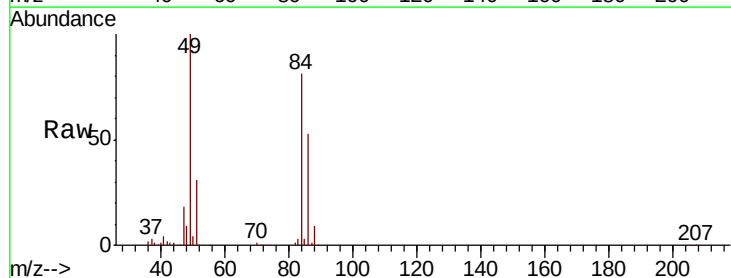
Instrument :
MSVOA_W
ClientSampled :

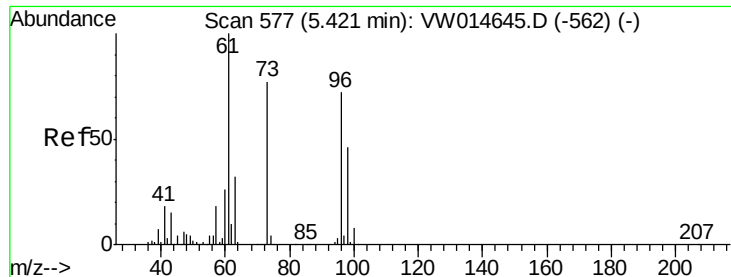
Tot Ion: 43 Resp: 196863
Ion Ratio Lower Upper
43 100
74 23.2 18.3 27.5



#16
Methylene chloride
Concen: 21.774 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

Tgt Ion: 84 Resp: 381970
Ion Ratio Lower Upper
84 100
49 122.8 85.8 159.4
86 65.6 44.5 82.7

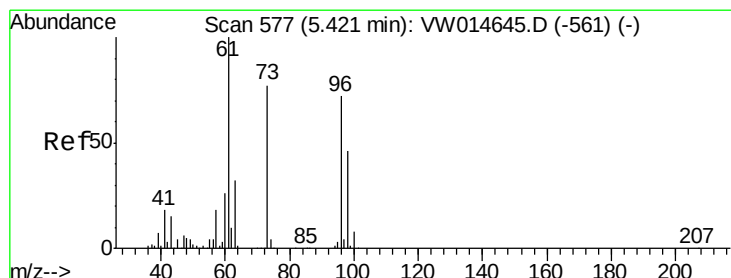
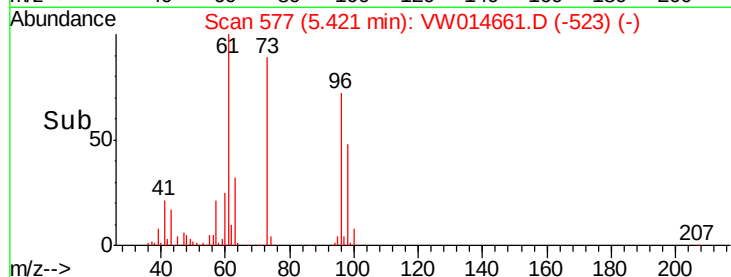
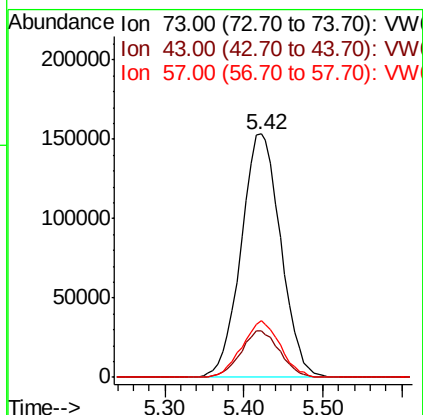
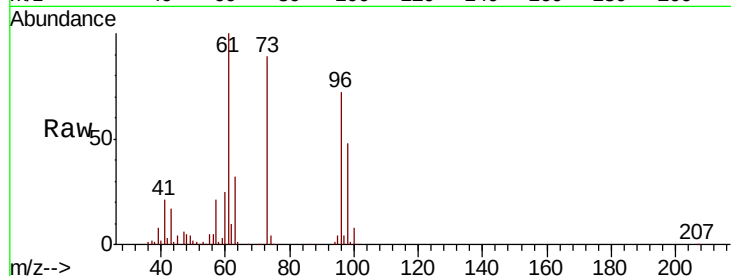




#17
Methyl tert-butyl Ether
Concen: 30.222 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

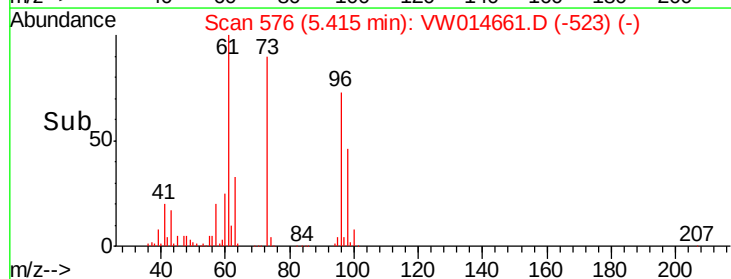
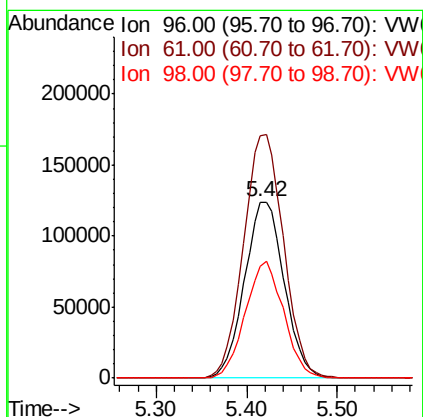
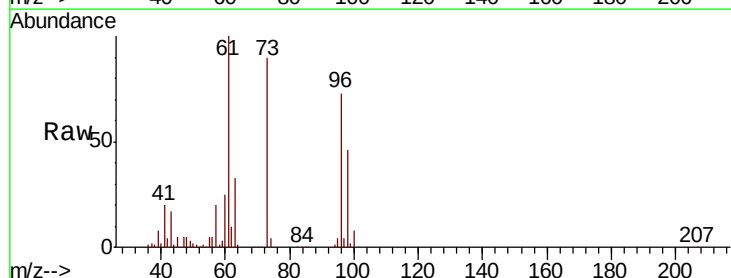
Instrument :
MSVOA_W
ClientSampleId :

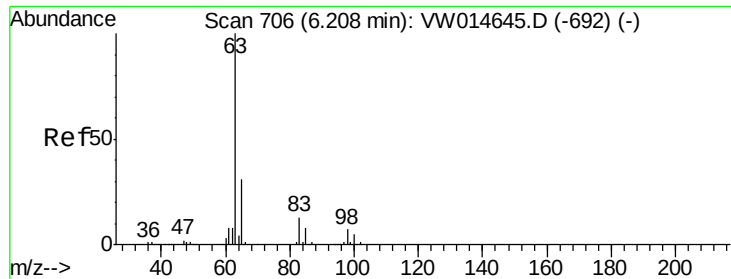
Tot Ion	Ratio	Lower	Upper
73	100		
43	18.8	15.7	23.5
57	22.5	18.3	27.5



#18
trans-1,2-Dichloroethene
Concen: 25.977 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	137.4	98.2	182.4
98	63.1	44.1	81.9

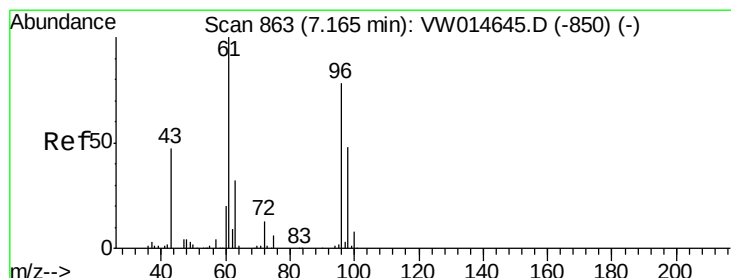
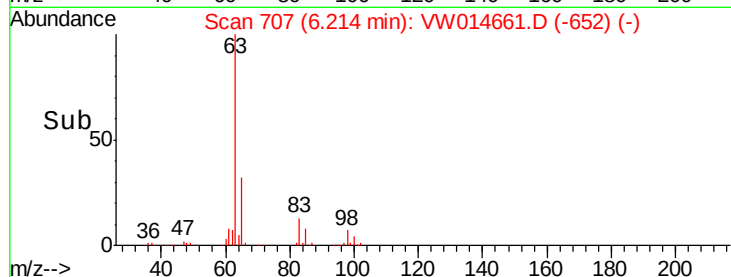
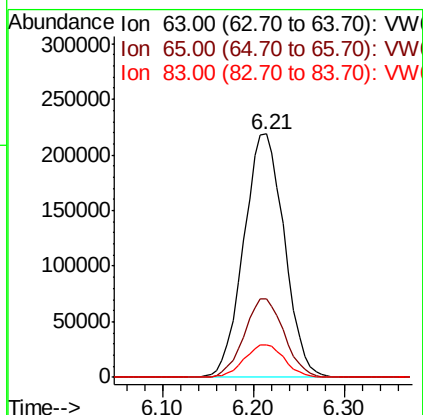
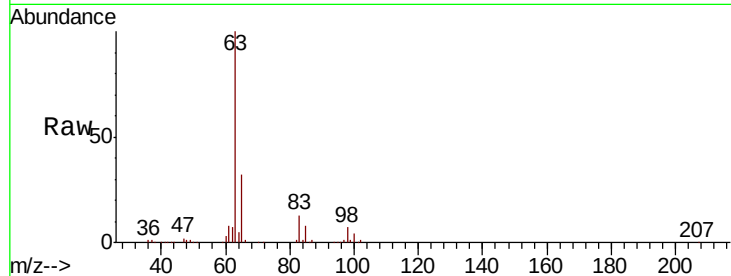




#19
 1,1-Dichloroethane
 Concen: 25.865 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

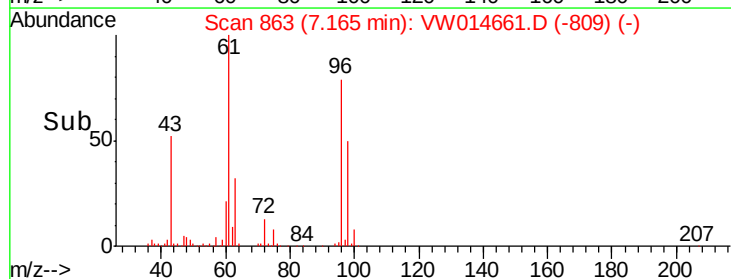
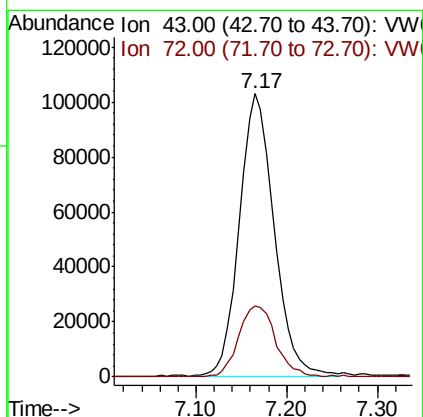
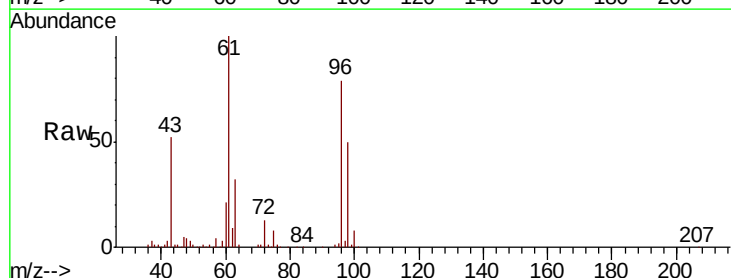
Instrument :
 MSVOA_W
 ClientSampled :

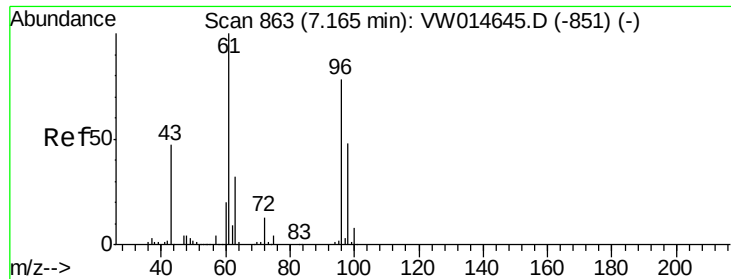
Tot Ion: 63 Resp: 677954
 Ion Ratio Lower Upper
 63 100
 65 32.2 21.7 40.3
 83 13.3 9.0 16.8



#21
 2-Butanone
 Concen: 50.720 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

Tgt Ion: 43 Resp: 271890
 Ion Ratio Lower Upper
 43 100
 72 27.1 13.3 39.8



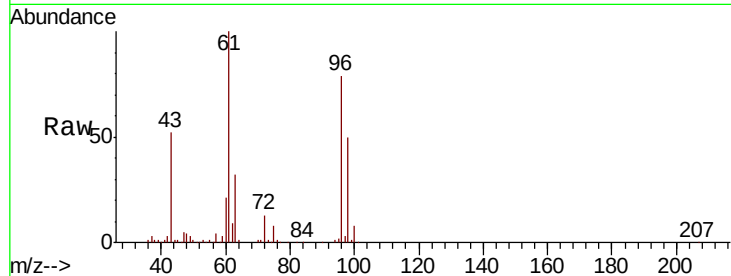


#22

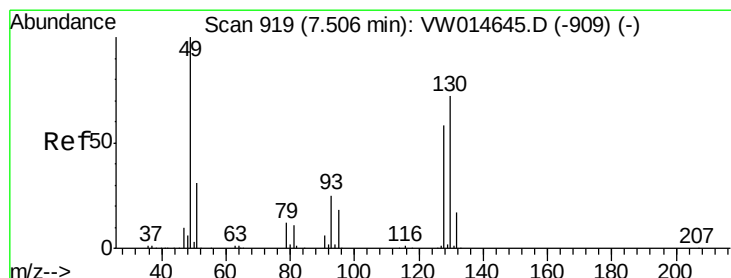
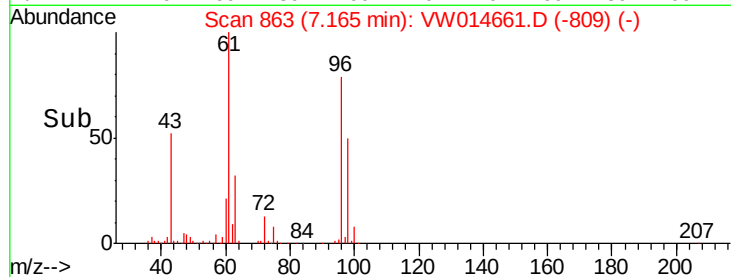
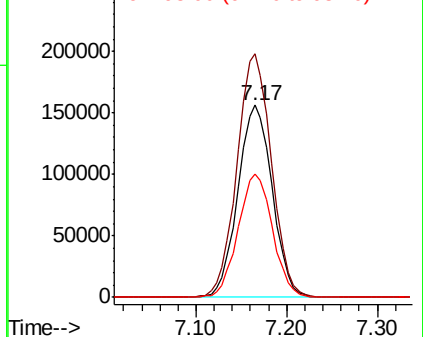
cis-1,2-Dichloroethene
 Concen: 26.934 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 96 Resp: 411093
 Ion Ratio Lower Upper
 96 100
 61 126.6 91.5 169.9
 98 63.9 46.9 87.1



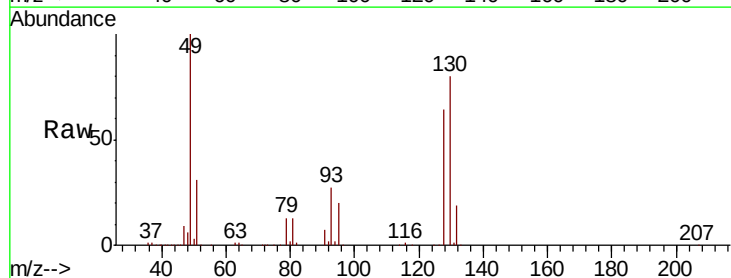
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



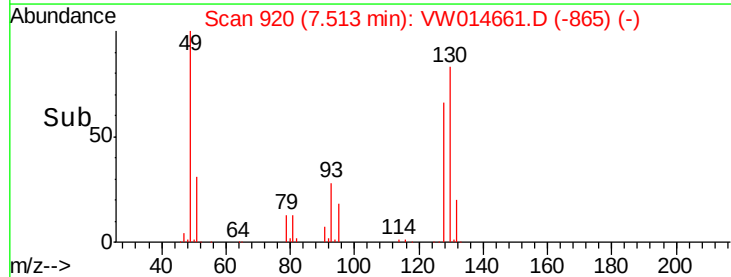
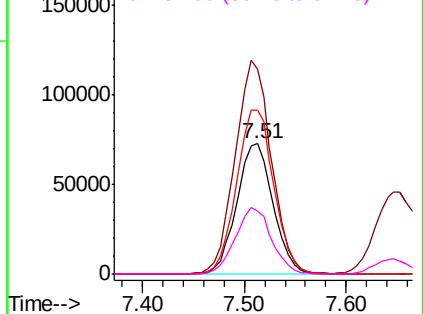
#23

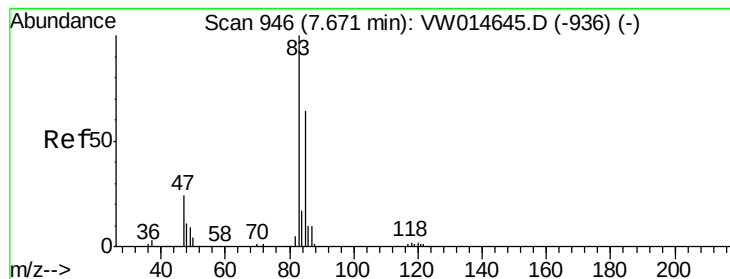
Bromochloromethane
 Concen: 27.209 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

Tgt Ion: 128 Resp: 179780
 Ion Ratio Lower Upper
 128 100
 49 157.1 118.3 219.7
 130 126.0 89.5 166.1
 51 48.4 42.1 63.1



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: 26.193 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

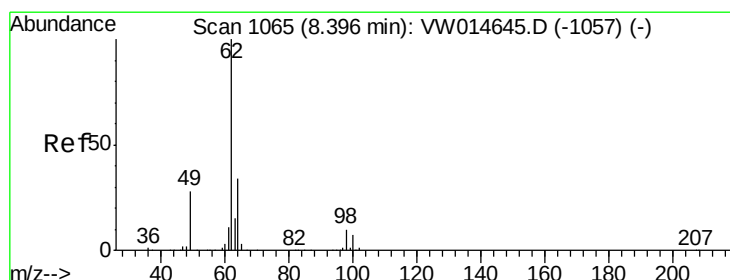
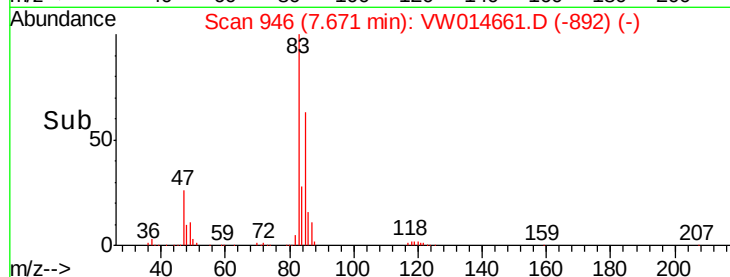
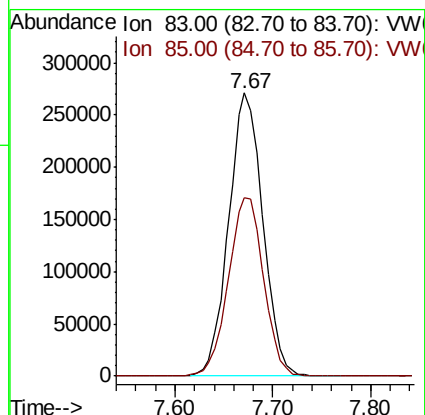
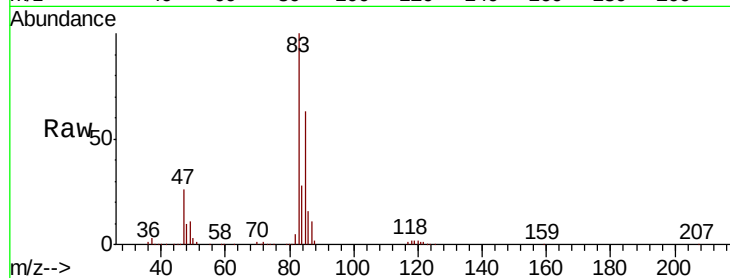
ClientSampleId :

Tot Ion: 83 Resp: 656690

Ion Ratio Lower Upper

83 100

85 64.8 45.8 85.2



#27

1,2-Dichloroethane

Concen: 25.529 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014661.D

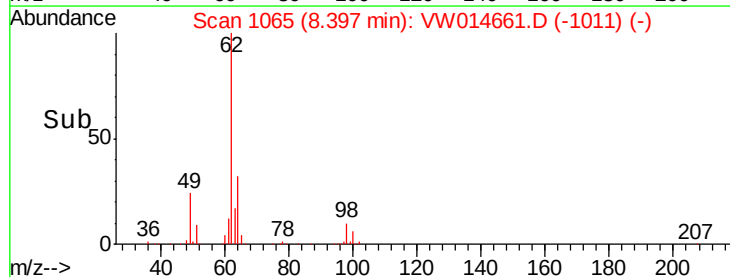
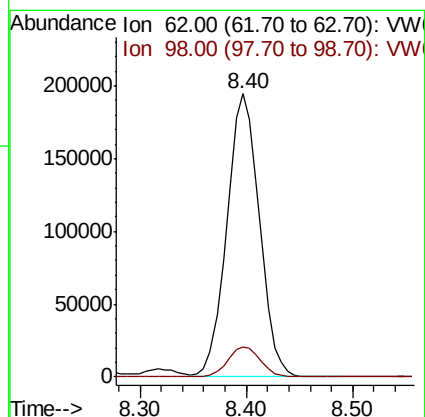
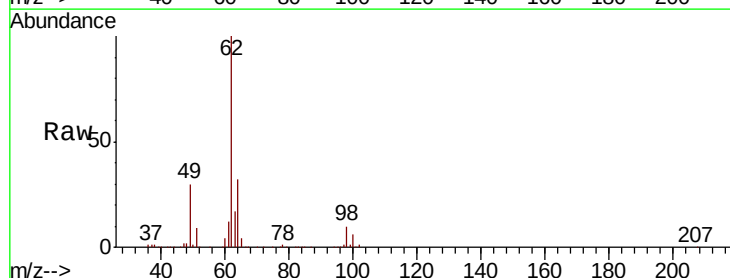
Acq: 15 Jan 2020 19:41

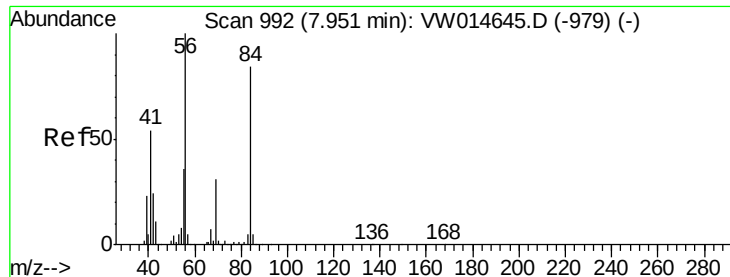
Tgt Ion: 62 Resp: 415485

Ion Ratio Lower Upper

62 100

98 10.4 8.3 12.5

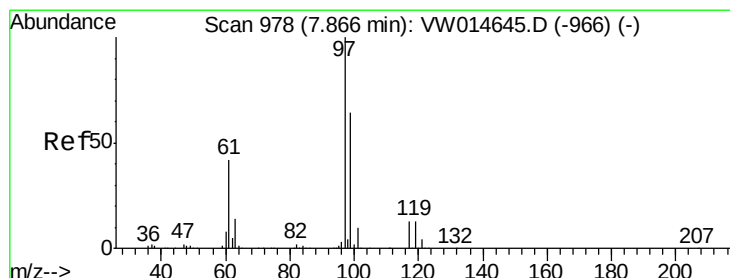
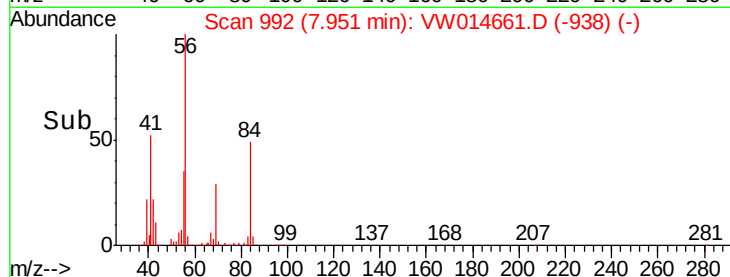
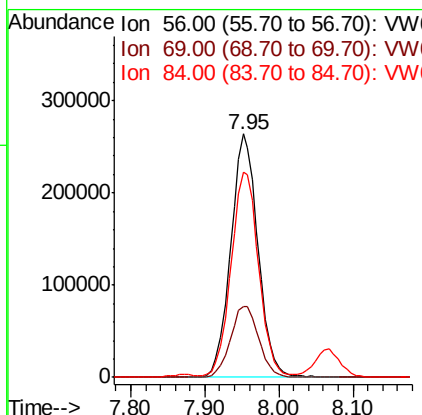
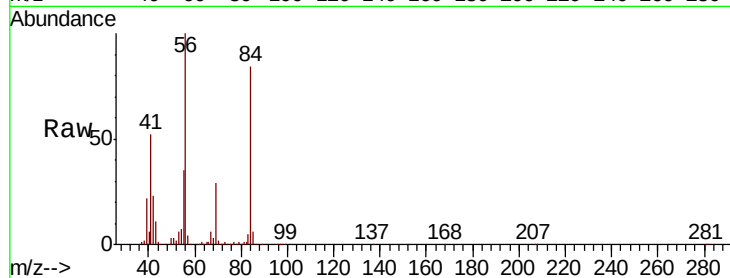




#30
Cyclohexane
Concen: 27.884 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

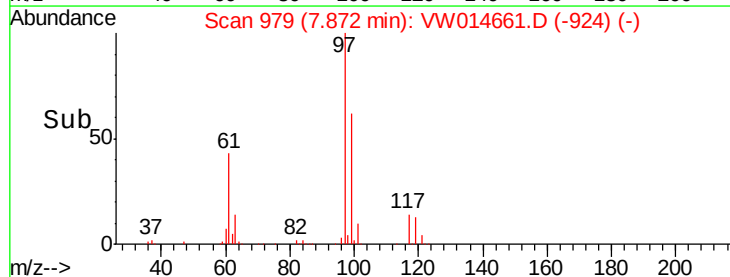
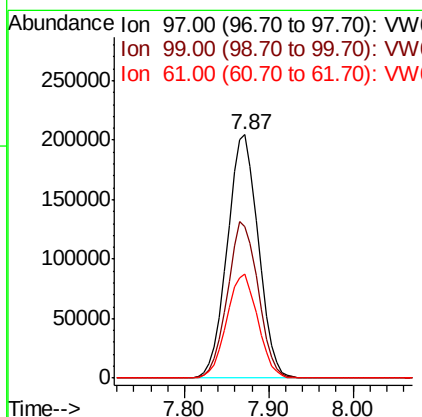
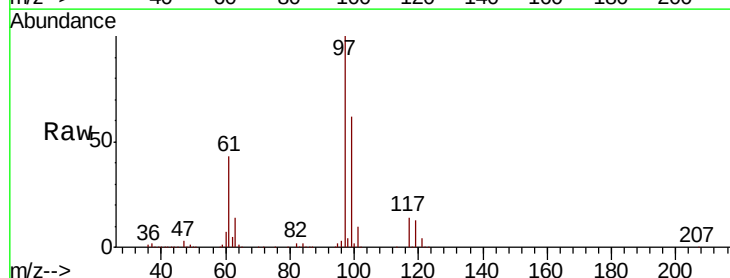
Instrument :
MSVOA_W
ClientSampleId :

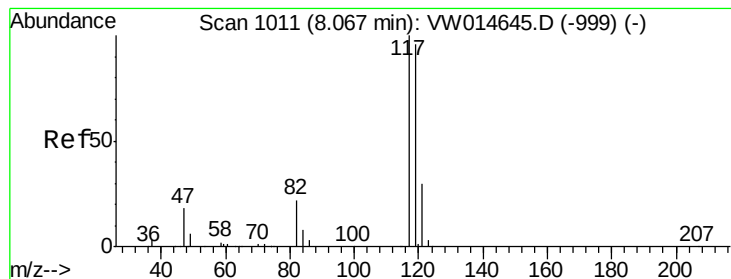
Tot Ion: 56 Resp: 675418
Ion Ratio Lower Upper
56 100
69 30.4 23.8 35.8
84 85.6 68.2 102.2



#31
1,1,1-Trichloroethane
Concen: 26.324 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

Tgt Ion: 97 Resp: 511333
Ion Ratio Lower Upper
97 100
99 63.9 51.6 77.4
61 42.8 35.3 52.9





#32

Carbon tetrachloride

Concen: 25.994 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

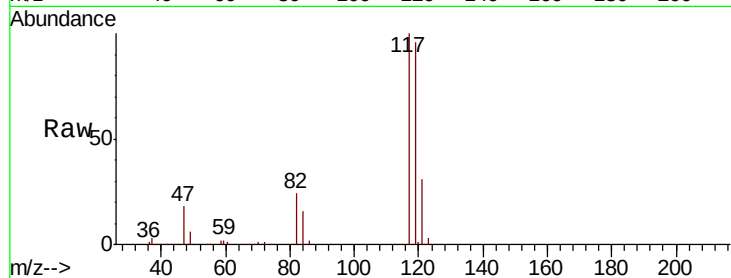
ClientSampleId :

Tot Ion:117 Resp: 470448

Ion Ratio Lower Upper

117 100

119 96.1 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

200000

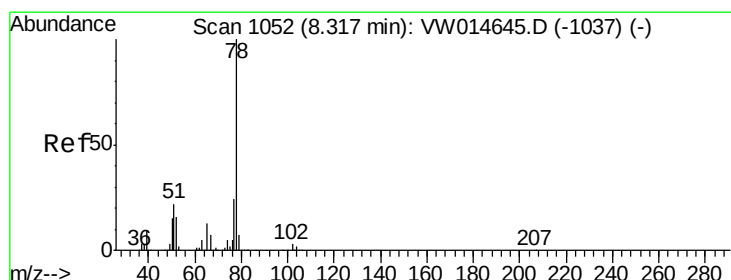
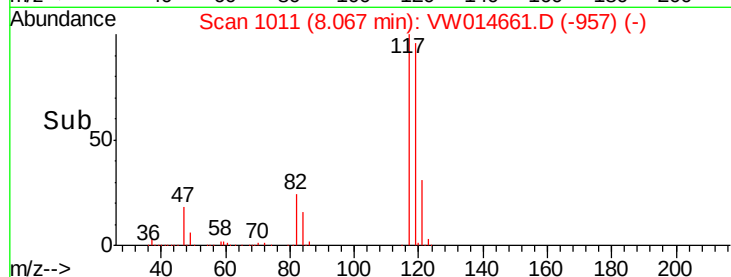
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 27.143 ug/L

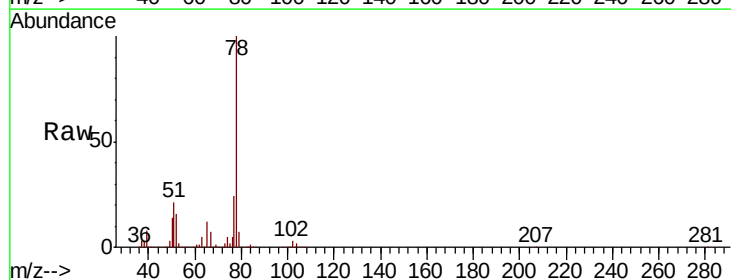
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Tgt Ion: 78 Resp: 1546793



Abundance Ion 78.00 (77.70 to 78.70): VW

800000

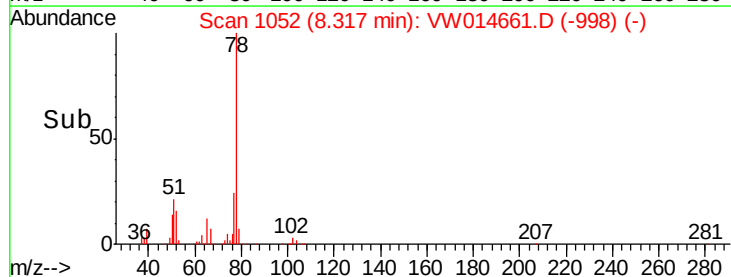
600000

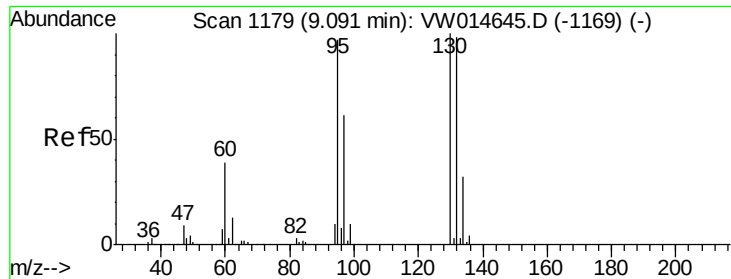
400000

200000

0

Time-->

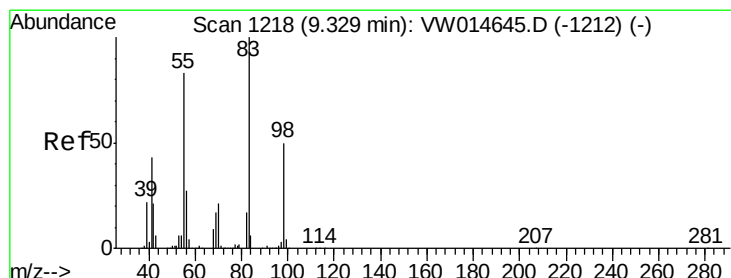
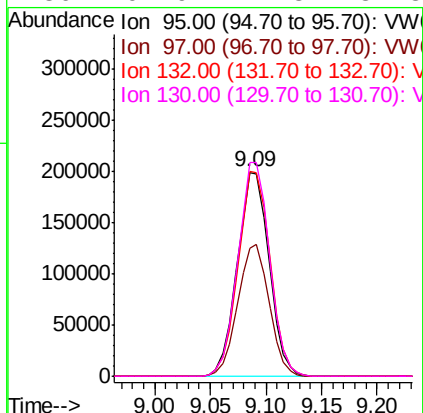
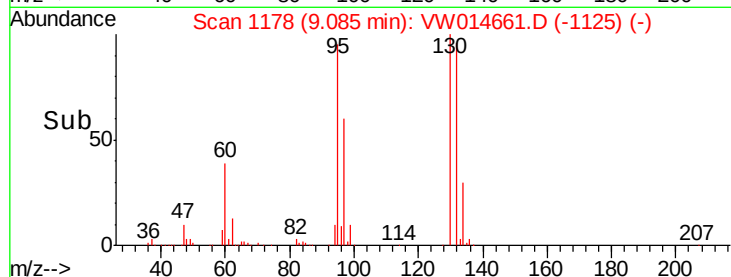
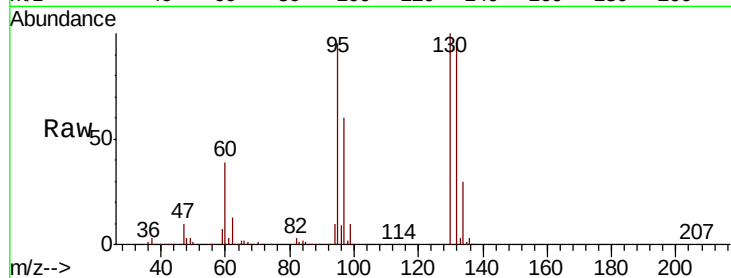




#35
 Trichloroethene
 Concen: 26.790 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. -0.01 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

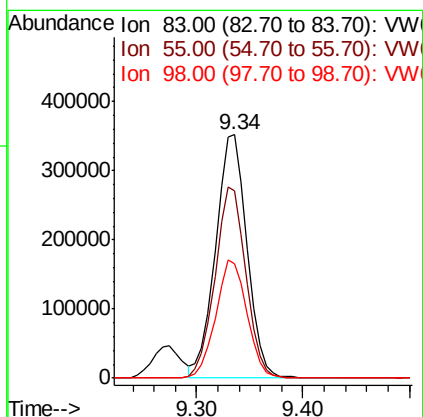
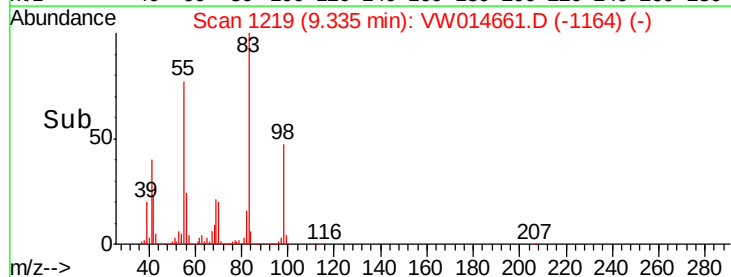
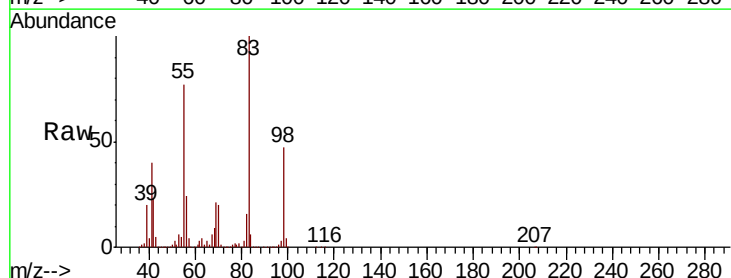
Instrument :
 MSVOA_W
 ClientSampleId :

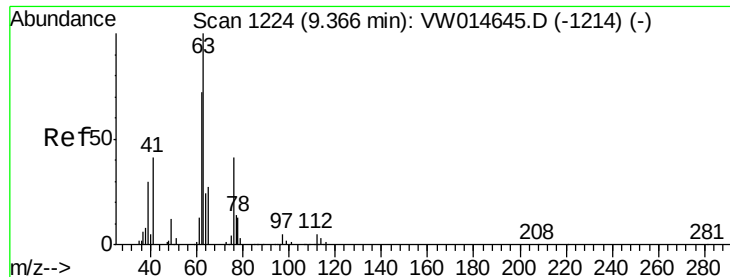
Tot Ion:	95	Resp:	394006
Ion	Ratio	Lower	Upper
95	100		
97	64.0	44.3	82.3
132	101.1	69.2	128.6
130	104.9	72.3	134.3



#36
 Methylcyclohexane
 Concen: 27.969 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

Tgt Ion:	83	Resp:	721663
Ion	Ratio	Lower	Upper
83	100		
55	77.1	63.7	95.5
98	48.2	39.4	59.2





#40

1,2-Dichloropropane

Concen: 26.615 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

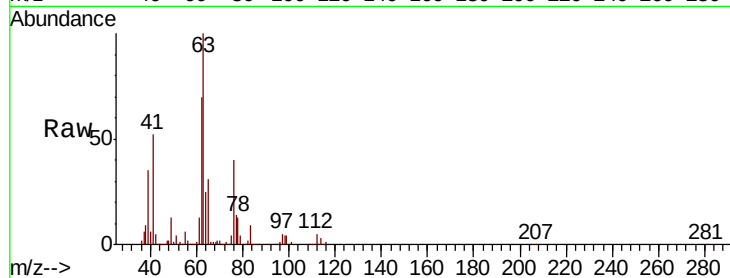
ClientSampleId :

Tot Ion: 63 Resp: 383873

Ion Ratio Lower Upper

63 100

112 4.5 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V

9.37

200000

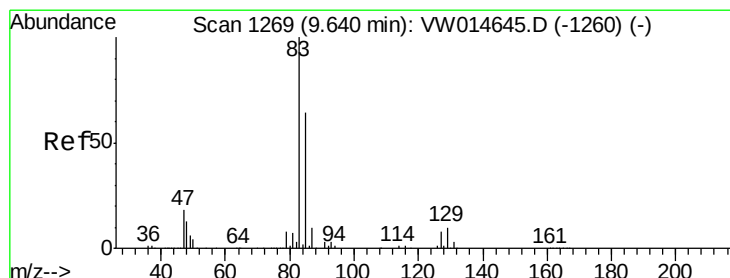
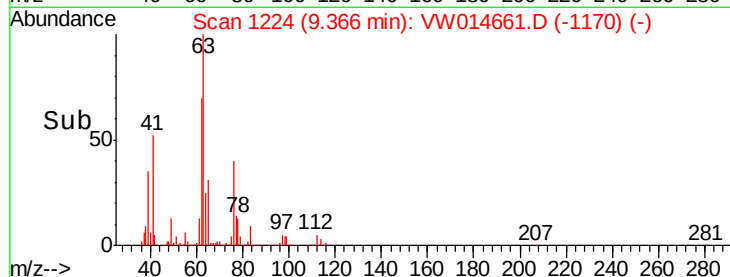
150000

100000

50000

0

Time--> 9.25 9.30 9.35 9.40 9.45



#41

Bromodichloromethane

Concen: 26.717 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

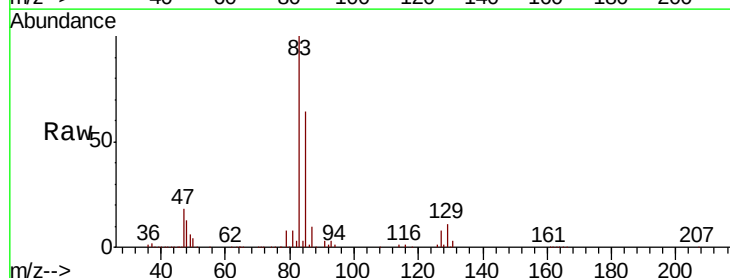
Tgt Ion: 83 Resp: 463529

Ion Ratio Lower Upper

83 100

85 63.8 44.7 83.1

127 8.3 6.3 9.5



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

9.64

300000

250000

200000

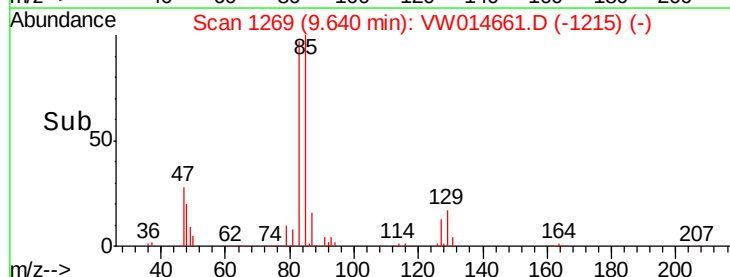
150000

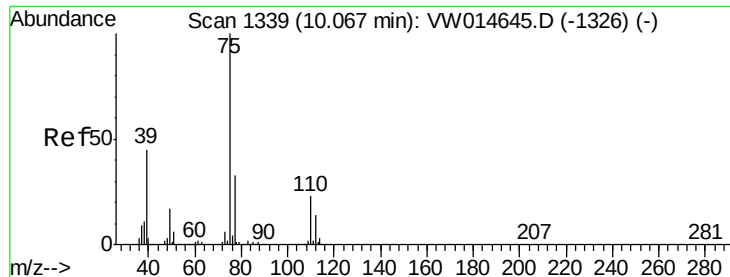
100000

50000

0

Time--> 9.55 9.60 9.65 9.70 9.75





#42

cis-1,3-Dichloropropene

Concen: 27.528 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

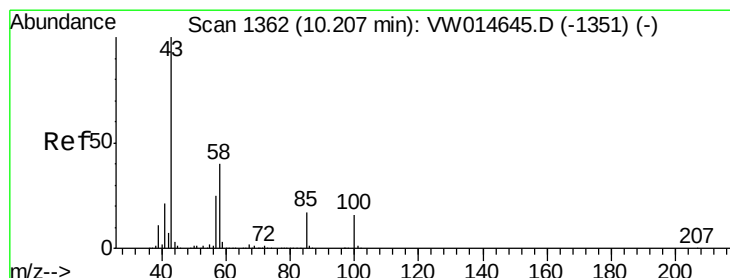
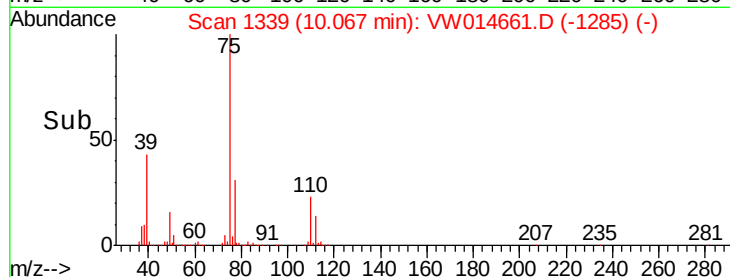
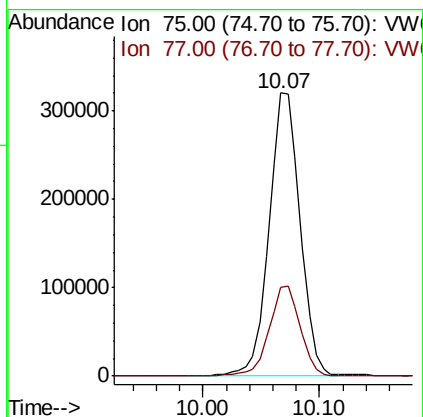
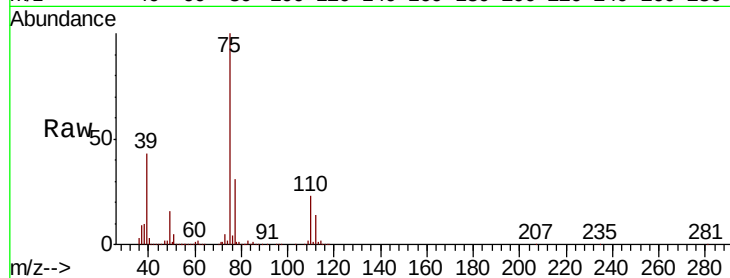
ClientSampled :

Tot Ion: 75 Resp: 593100

Ion Ratio Lower Upper

75 100

77 31.5 21.0 39.0



#43

4-Methyl-2-pentanone

Concen: 59.714 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

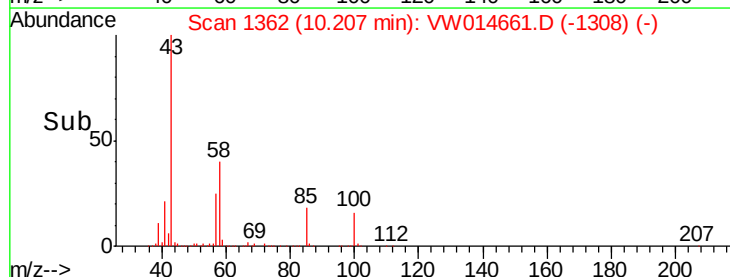
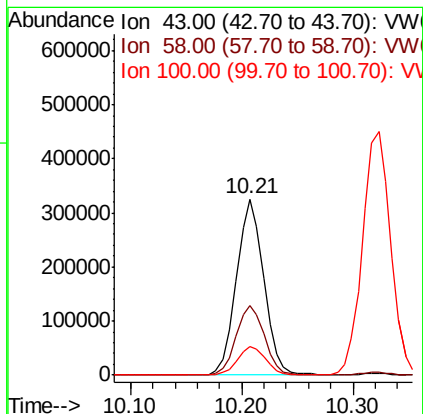
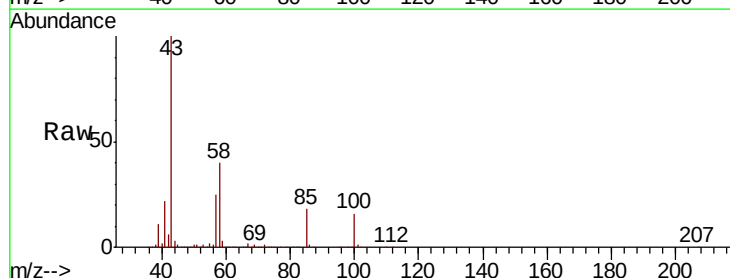
Tgt Ion: 43 Resp: 552902

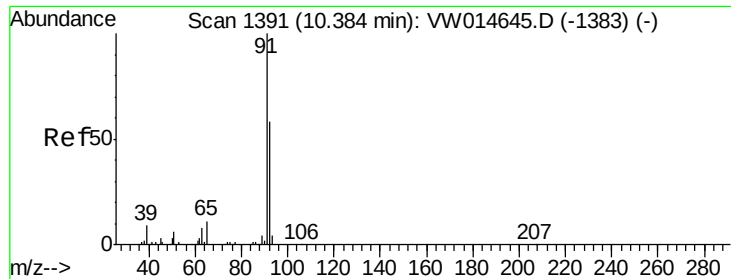
Ion Ratio Lower Upper

43 100

58 40.8 32.6 48.8

100 16.6 12.6 19.0





#44

Toluene

Concen: 27.742 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

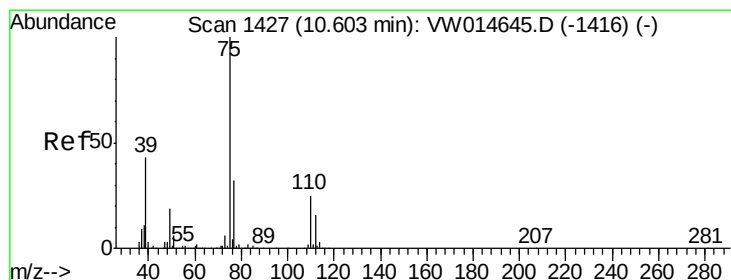
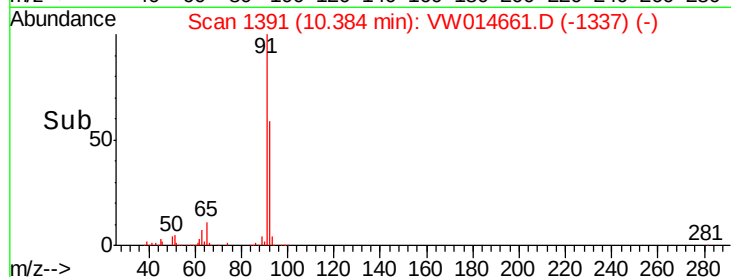
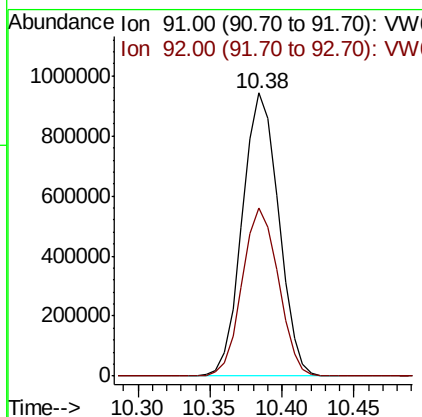
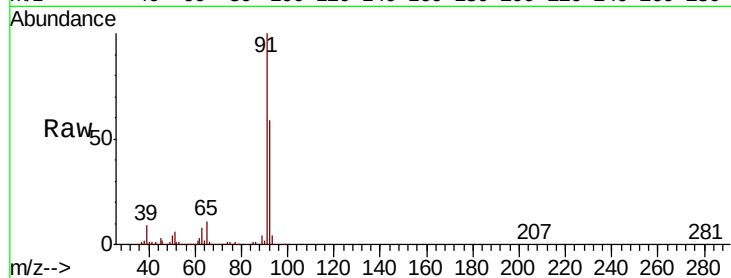
ClientSampleId :

Tot Ion: 91 Resp: 1652063

Ion Ratio Lower Upper

91 100

92 59.3 40.2 74.6



#45

trans-1,3-Dichloropropene

Concen: 27.406 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014661.D

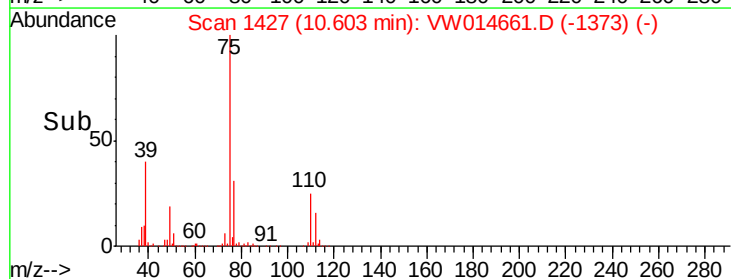
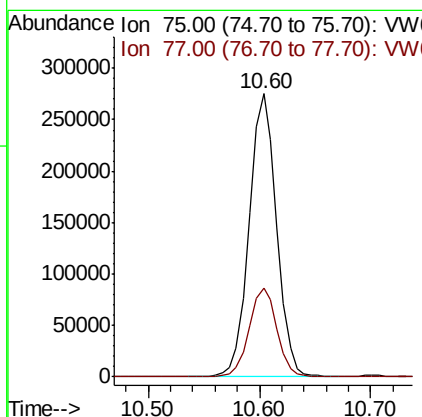
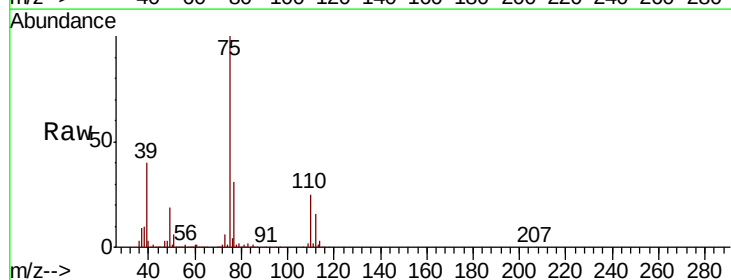
Acq: 15 Jan 2020 19:41

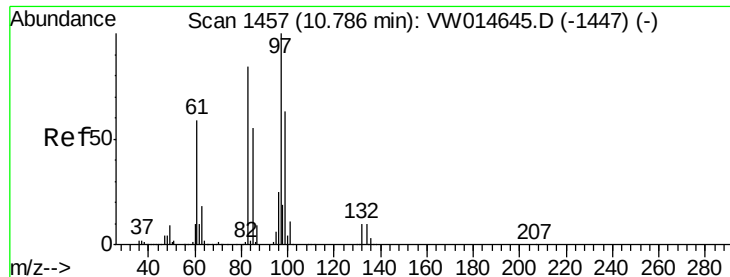
Tgt Ion: 75 Resp: 472143

Ion Ratio Lower Upper

75 100

77 31.4 21.1 39.3





#46

1,1,2-Trichloroethane

Concen: 27.727 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 283264

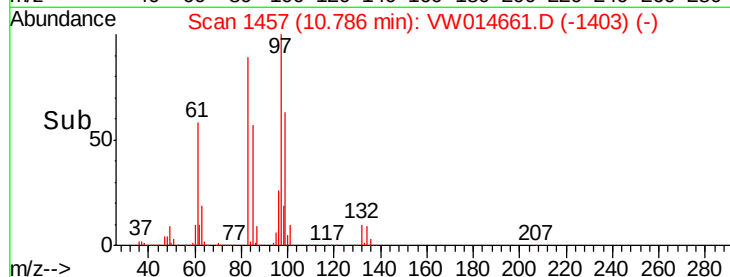
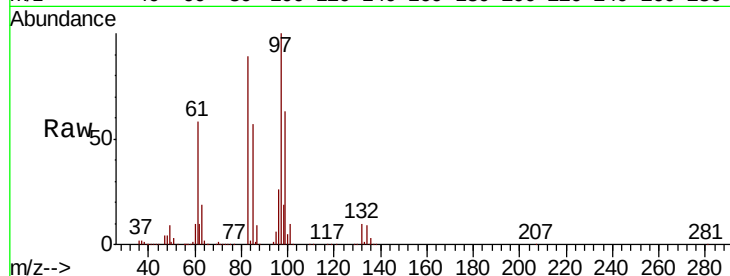
Ion Ratio Lower Upper

97 100

83 88.5 60.1 111.5

85 57.0 38.1 70.9

99 63.3 43.4 80.6



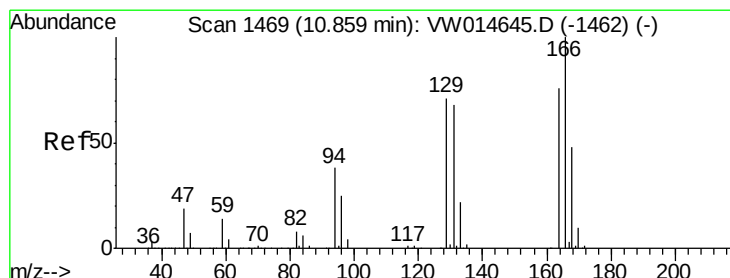
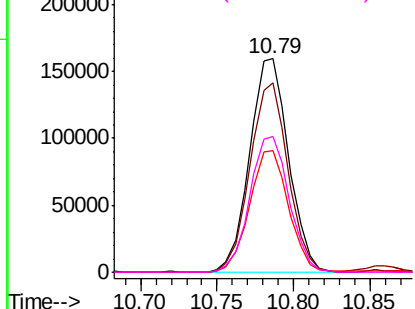
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 27.298 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Tgt Ion: 164 Resp: 337106

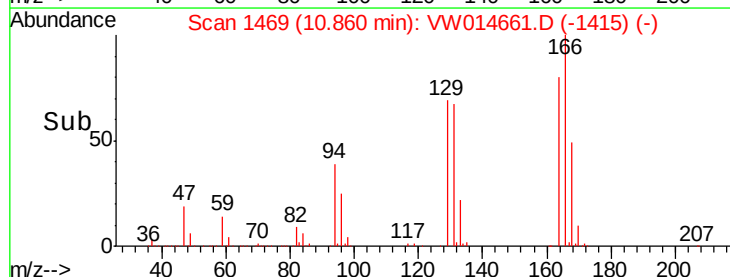
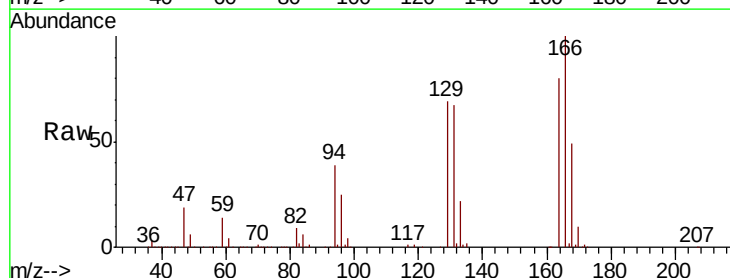
Ion Ratio Lower Upper

164 100

129 85.9 64.0 118.8

131 83.6 60.2 111.8

166 125.0 88.2 163.8



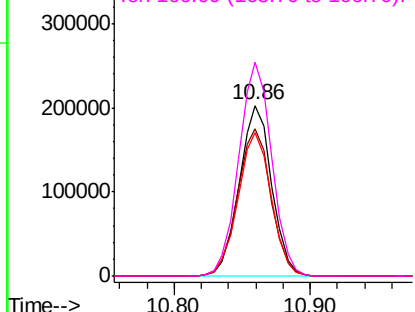
Abundance

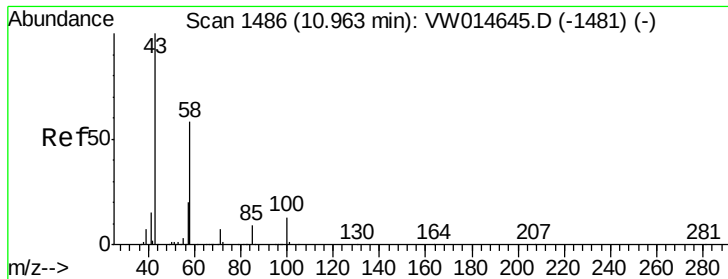
Ion 164.00 (163.70 to 164.70): V

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

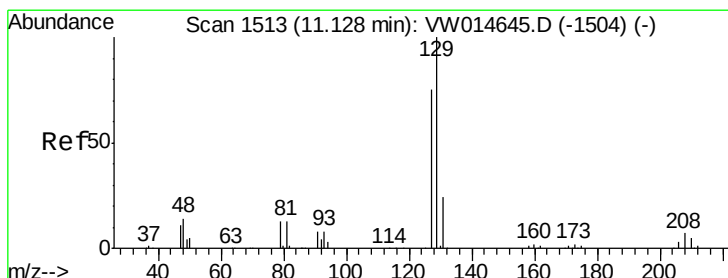
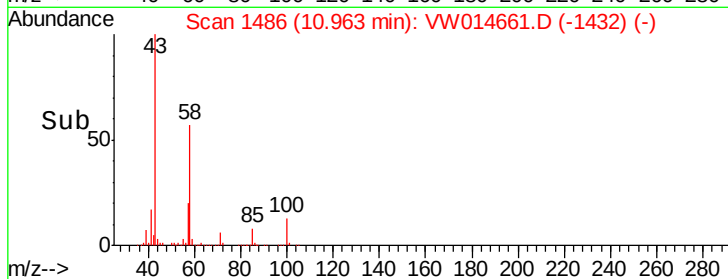
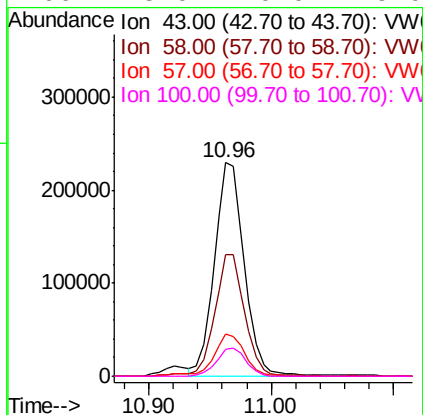
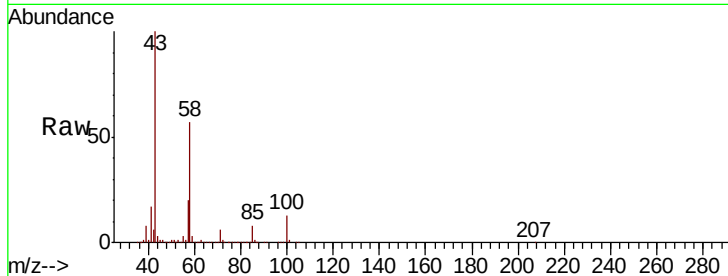




#49
2-Hexanone
Concen: 61.619 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

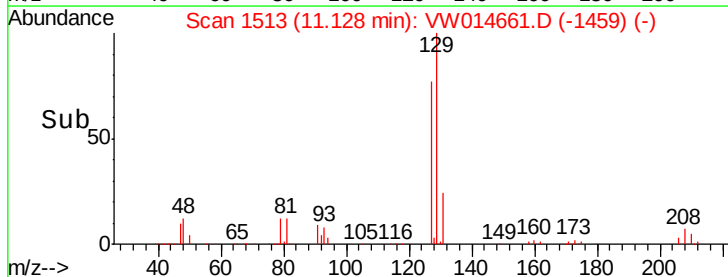
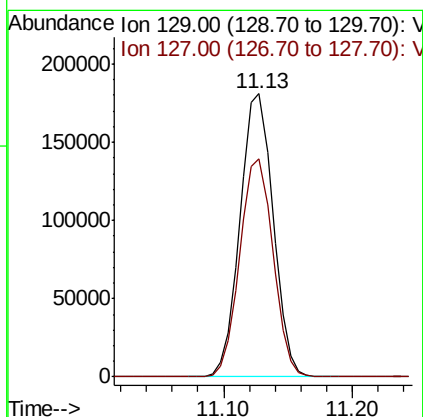
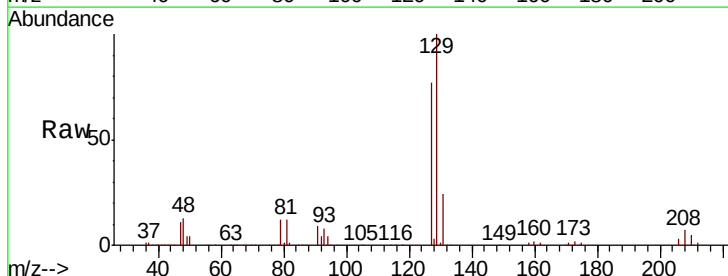
Instrument :
MSVOA_W
ClientSampleId :

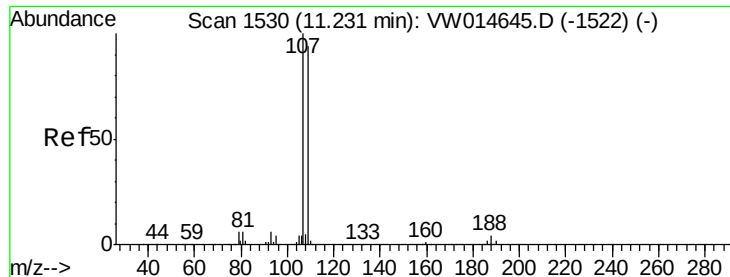
Tot Ion: 43 Resp: 389604
Ion Ratio Lower Upper
43 100
58 56.9 44.9 67.3
57 19.4 15.3 22.9
100 13.0 10.0 15.0



#50
Dibromochloromethane
Concen: 27.859 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

Tgt Ion: 129 Resp: 323179
Ion Ratio Lower Upper
129 100
127 77.1 51.1 94.9

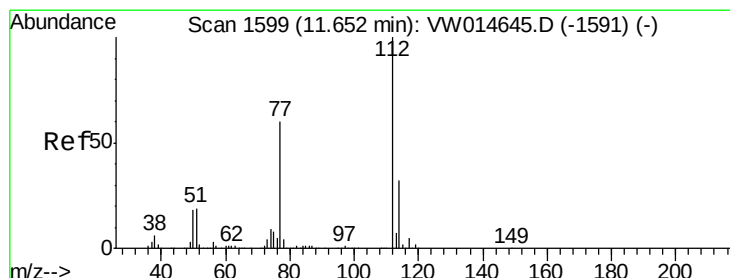
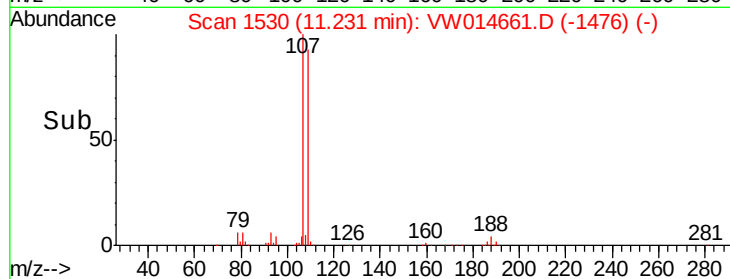
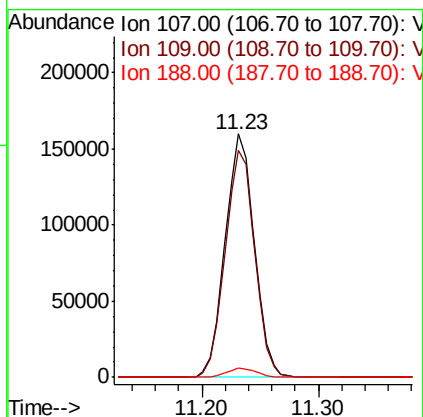
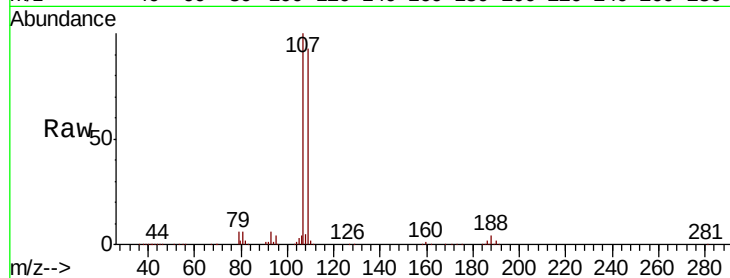




#51
1,2-Dibromoethane
Concen: 28.815 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

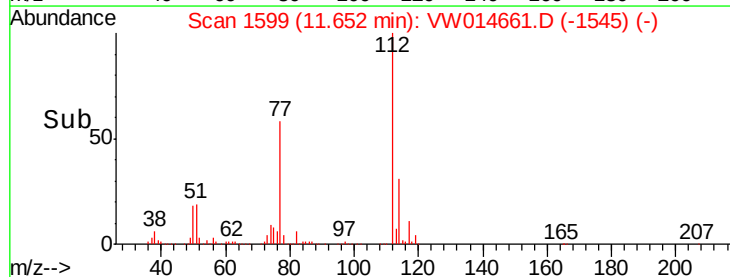
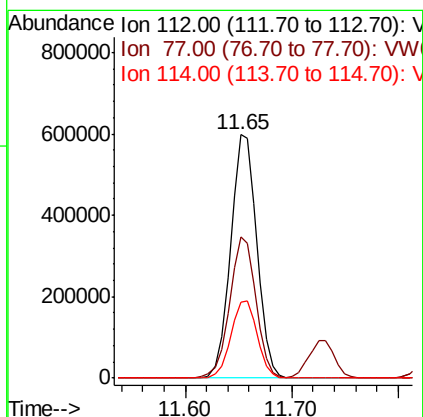
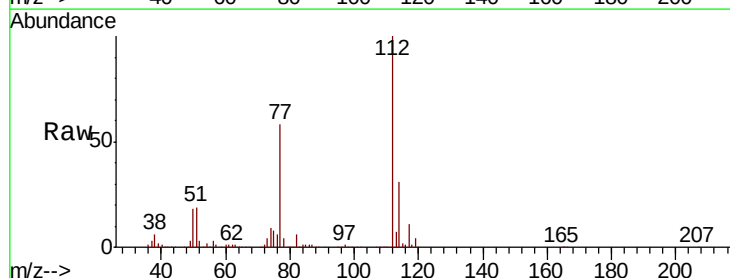
Instrument :
MSVOA_W
ClientSampleId :

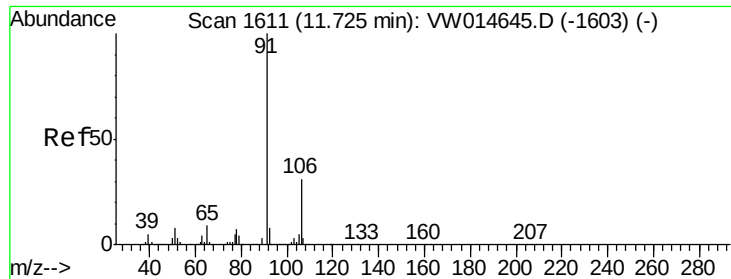
Tot Ion:107 Resp: 277885
Ion Ratio Lower Upper
107 100
109 93.2 64.7 120.1
188 4.0 3.0 4.6



#52
Chlorobenzene
Concen: 27.377 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VW014661.D
Acq: 15 Jan 2020 19:41

Tgt Ion:112 Resp: 1030589
Ion Ratio Lower Upper
112 100
77 58.1 48.2 72.2
114 31.3 22.9 42.5





#53

Ethylbenzene

Concen: 27.730 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

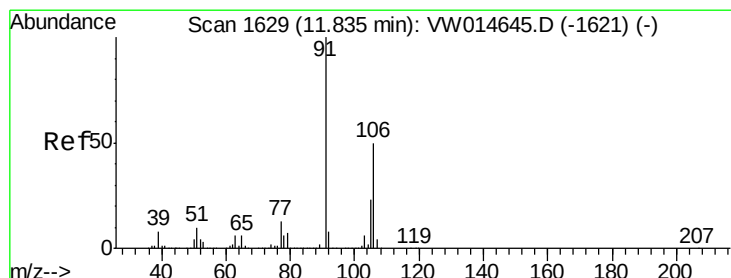
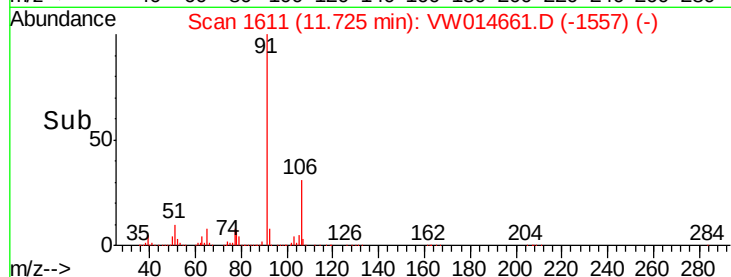
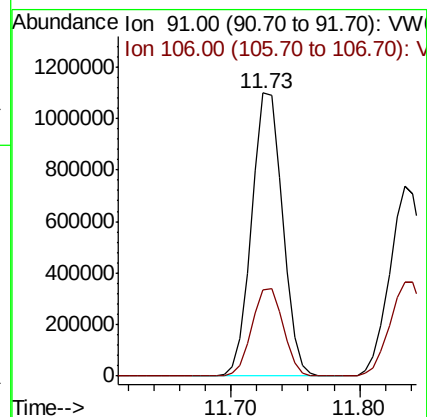
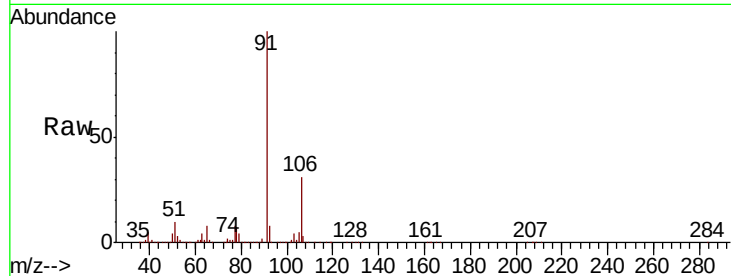
ClientSampleId :

Tot Ion: 91 Resp: 1815696

Ion Ratio Lower Upper

91 100

106 30.6 21.8 40.6



#54

m,p-Xylene

Concen: 28.250 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014661.D

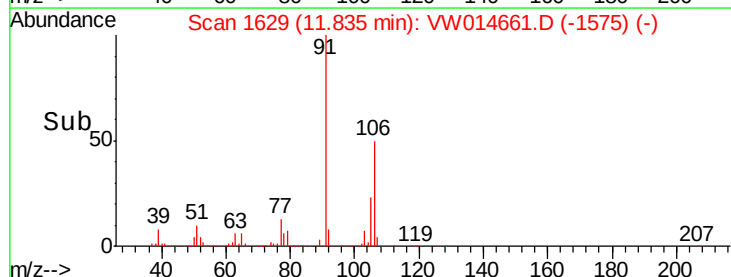
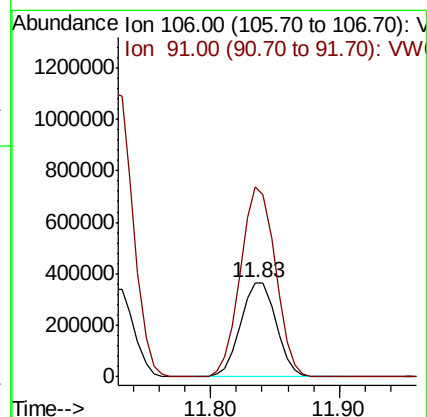
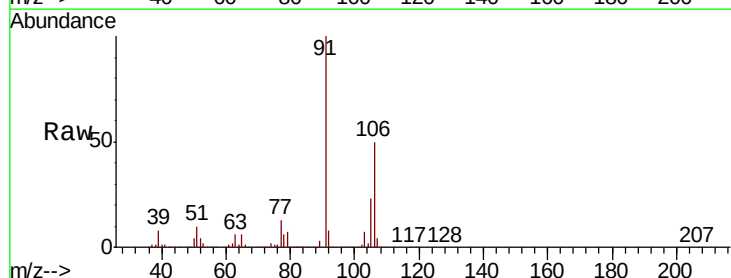
Acq: 15 Jan 2020 19:41

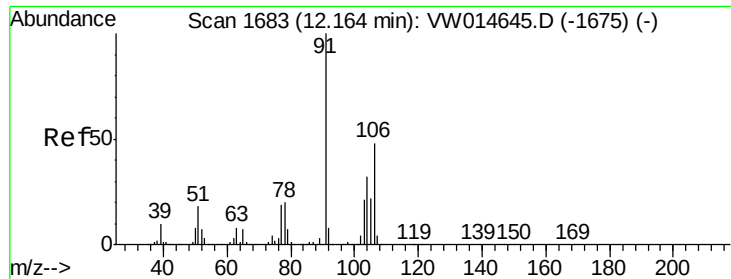
Tgt Ion: 106 Resp: 699978

Ion Ratio Lower Upper

106 100

91 201.5 142.2 264.0





#55

o-xylene

Concen: 28.078 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

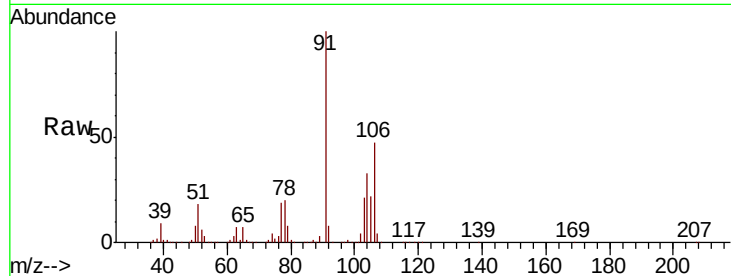
ClientSampled :

Tot Ion:106 Resp: 657146

Ion Ratio Lower Upper

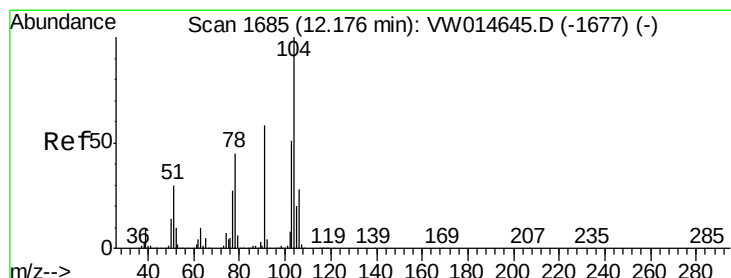
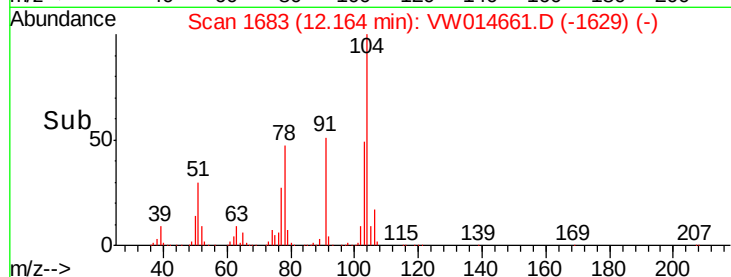
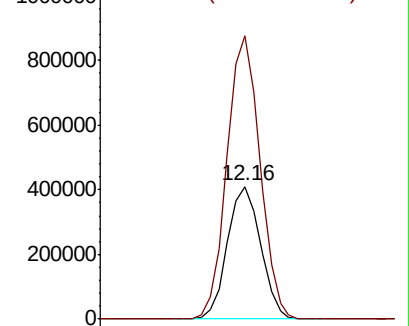
106 100

91 213.1 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 28.650 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014661.D

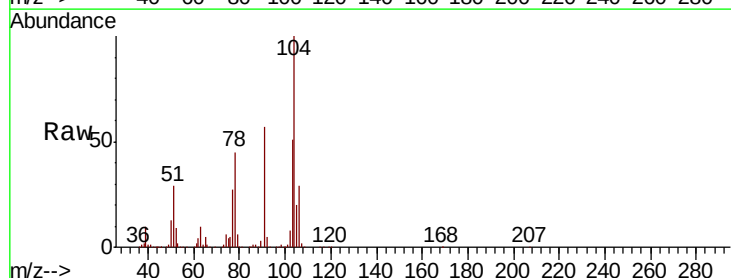
Acq: 15 Jan 2020 19:41

Tgt Ion:104 Resp: 1128571

Ion Ratio Lower Upper

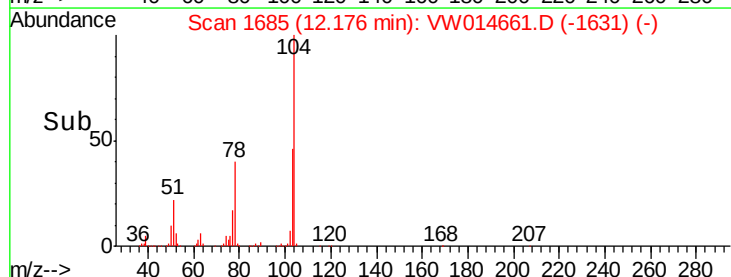
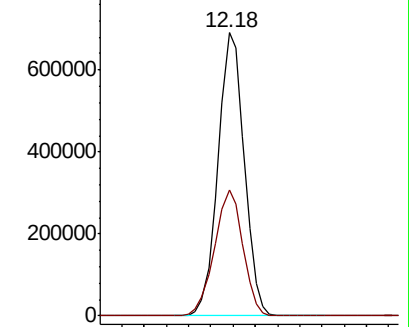
104 100

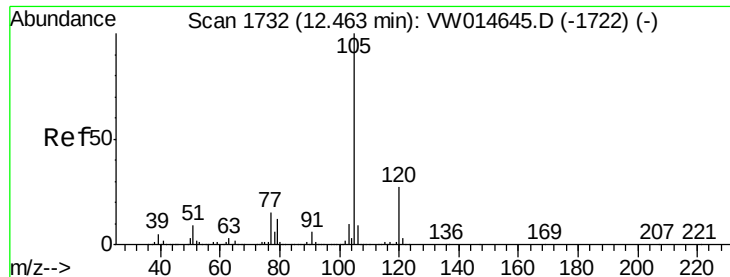
78 44.6 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 28.706 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

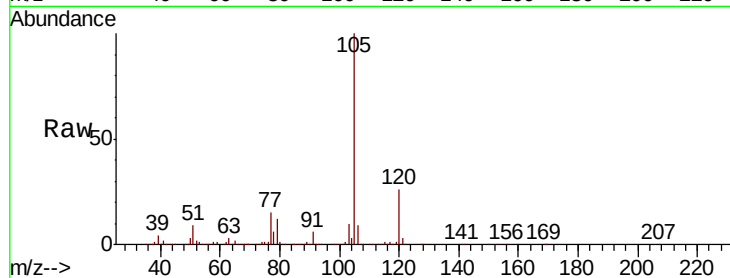
Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:105 Resp: 1787082

Ion	Ratio	Lower	Upper
105	100		
120	26.5	21.0	31.6
77	14.8	12.2	18.2

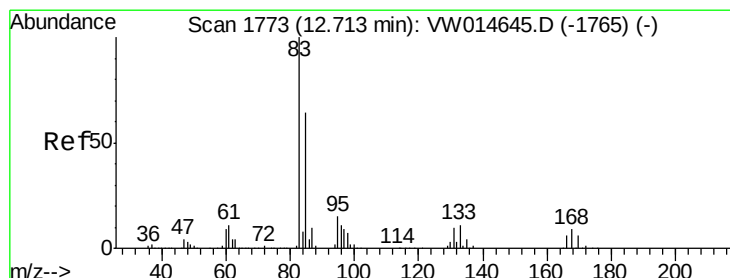
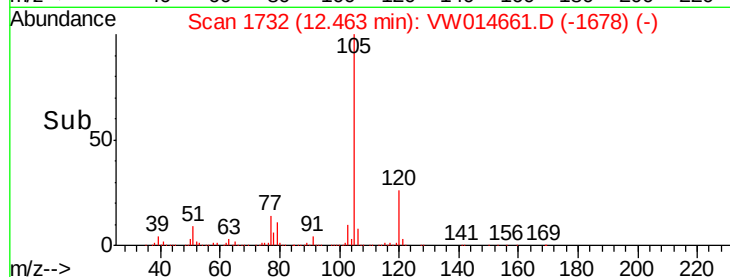
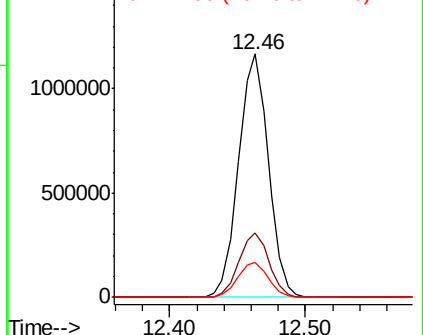


Abundance

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: 29.151 ug/L

RT: 12.71 min Scan# 1773

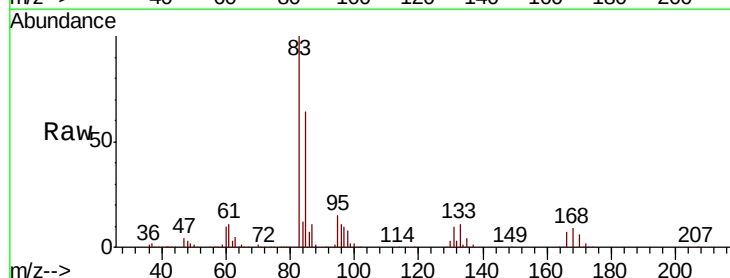
Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Tgt Ion: 83 Resp: 361600

Ion	Ratio	Lower	Upper
83	100		
85	64.2	45.3	84.1
131	9.9	8.0	12.0

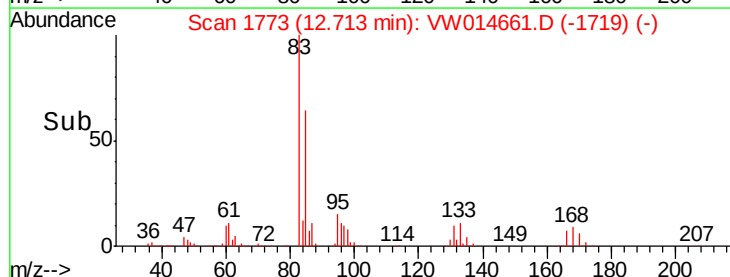
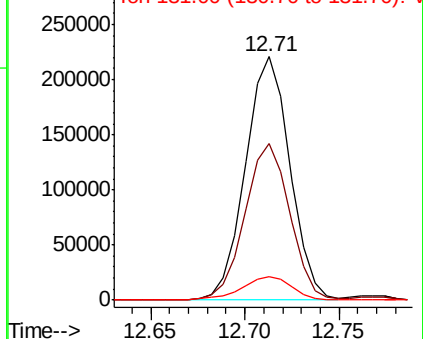


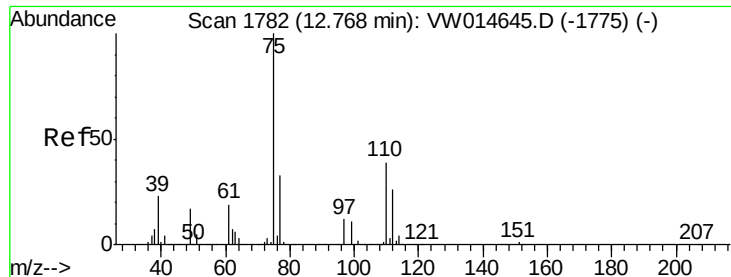
Abundance

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

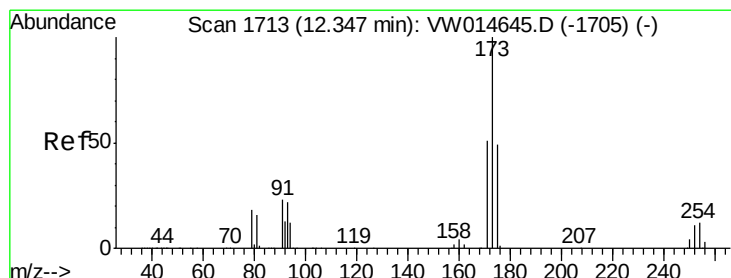
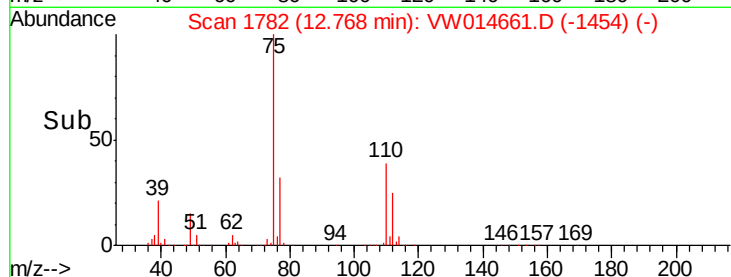
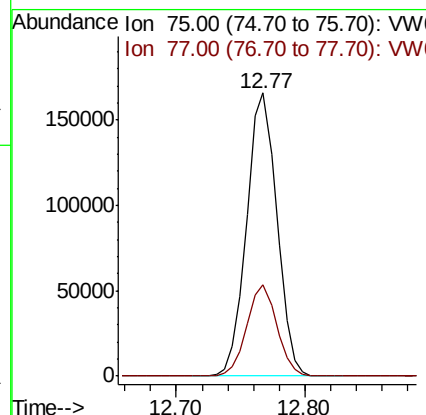
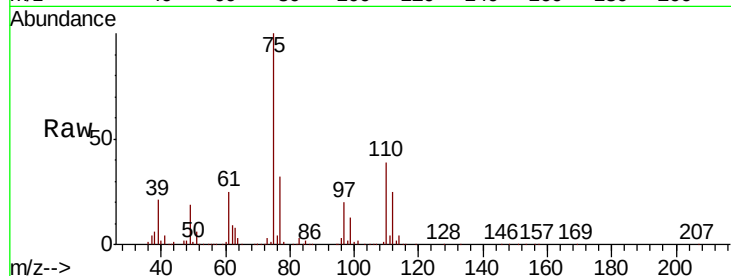




#59
 1,2,3-Trichloropropane
 Concen: 28.969 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

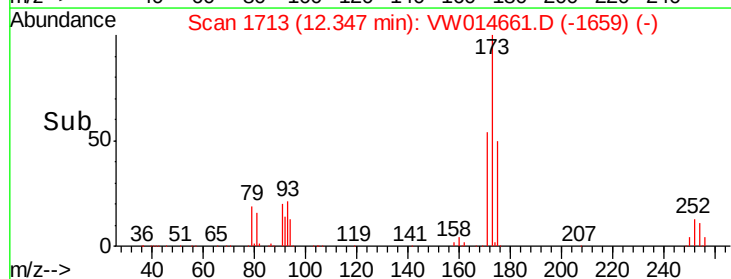
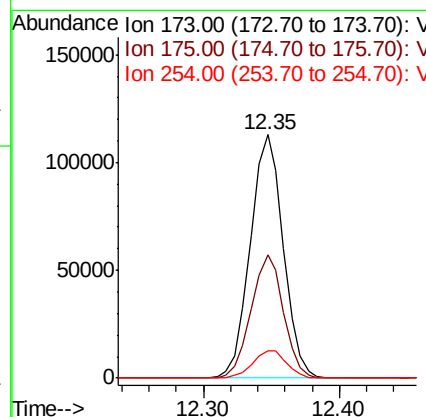
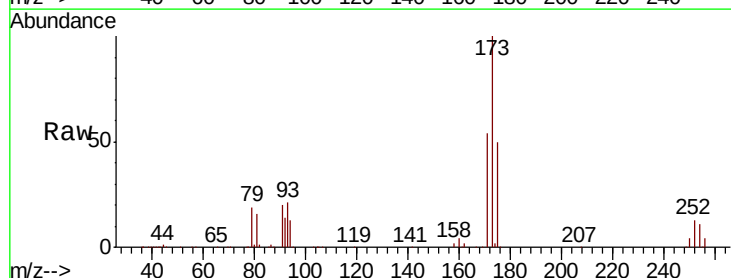
Instrument :
 MSVOA_W
 ClientSampleId :

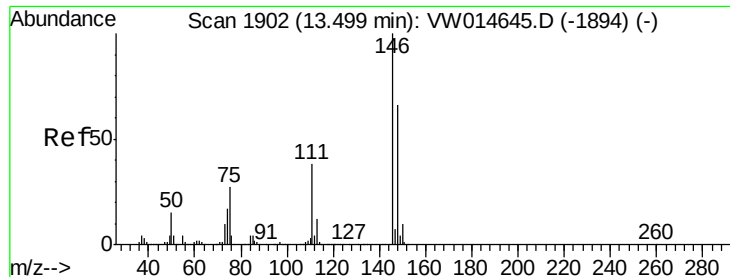
Tot Ion: 75 Resp: 269190
 Ion Ratio Lower Upper
 75 100
 77 32.0 26.2 39.2



#62
 Bromoform
 Concen: 27.221 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. 0.00 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

Tgt Ion: 173 Resp: 191581
 Ion Ratio Lower Upper
 173 100
 175 49.8 40.5 60.7
 254 11.7 9.3 13.9





#63

1,3-Dichlorobenzene

Concen: 27.516 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Instrument :

MSVOA_W

ClientSampleId :

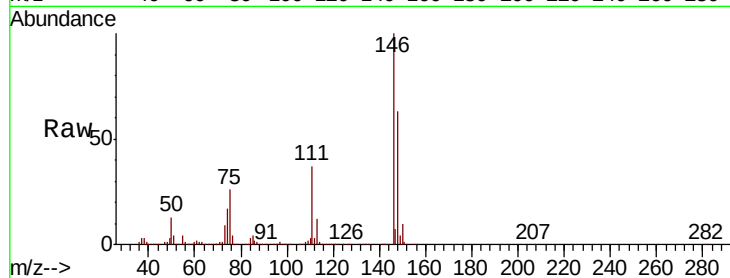
Tot Ion:146 Resp: 820473

Ion Ratio Lower Upper

146 100

111 36.9 26.9 50.1

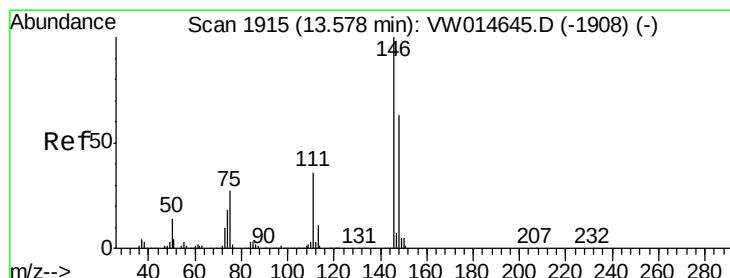
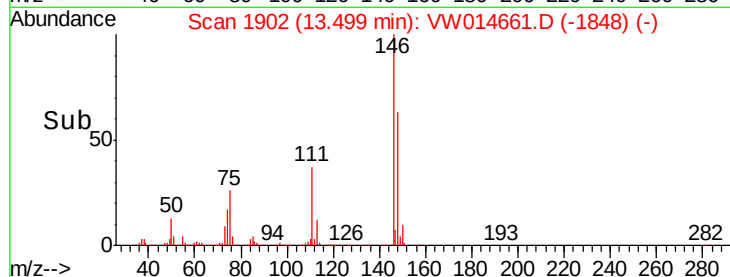
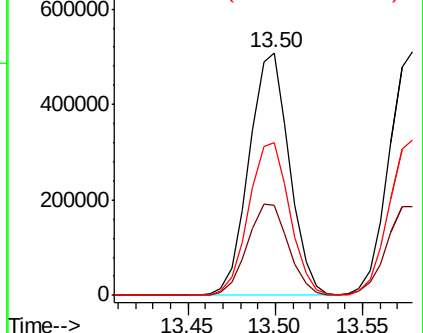
148 63.3 45.1 83.7



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: 26.644 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

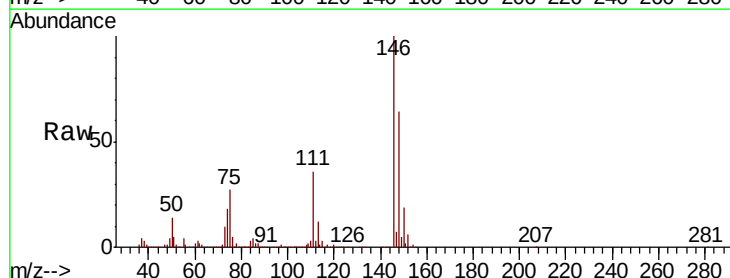
Tgt Ion:146 Resp: 801093

Ion Ratio Lower Upper

146 100

111 36.3 24.5 45.5

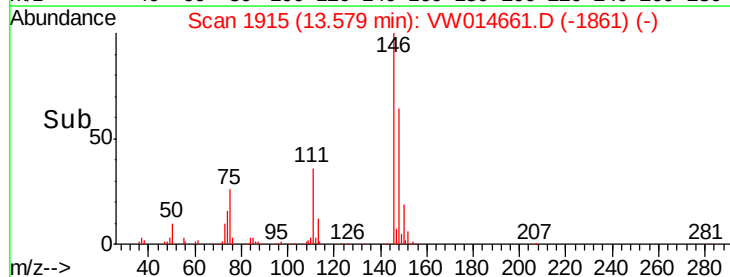
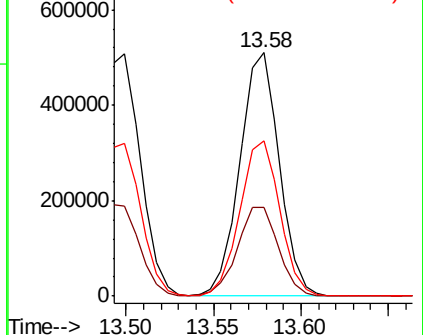
148 63.9 44.4 82.4

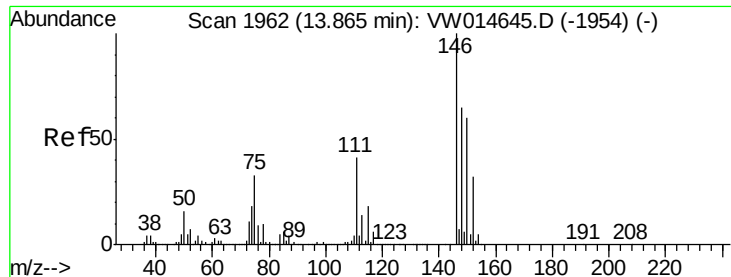


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

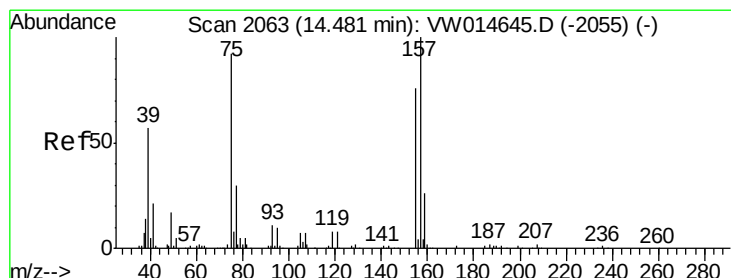
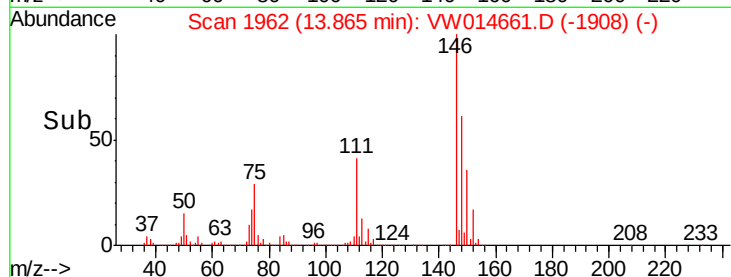
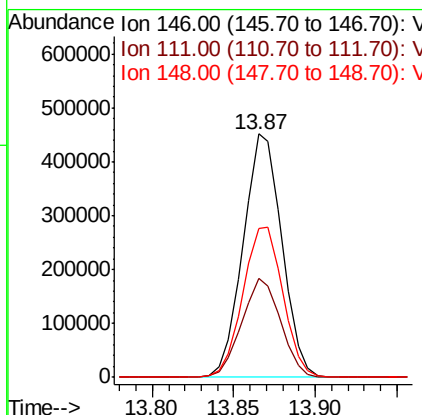
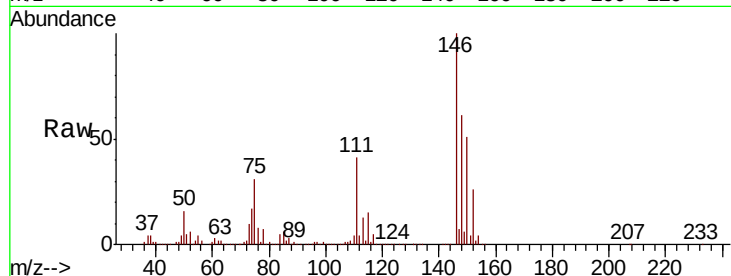




#65
 1,2-Dichlorobenzene
 Concen: 27.928 ug/L
 RT: 13.87 min Scan# 1962
 Delta R.T. 0.00 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

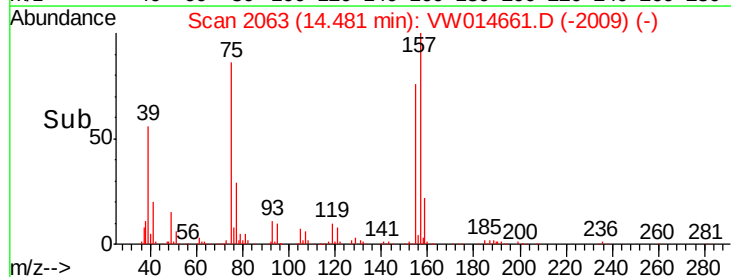
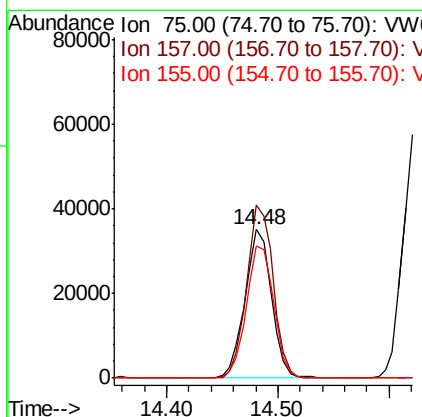
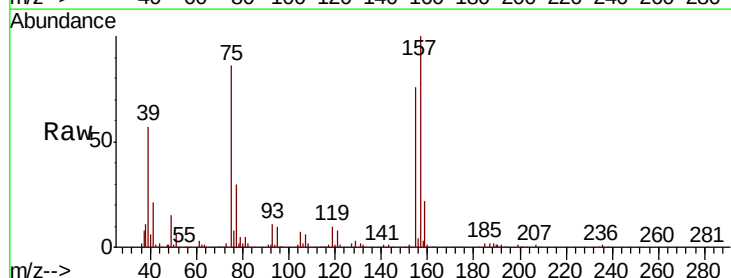
Instrument :
 MSVOA_W
 ClientSampleId :

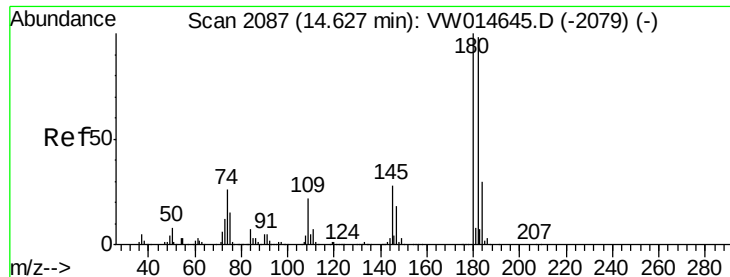
Tot Ion:146 Resp: 746531
 Ion Ratio Lower Upper
 146 100
 111 40.9 34.2 51.2
 148 61.2 51.8 77.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 29.394 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

Tgt Ion: 75 Resp: 58185
 Ion Ratio Lower Upper
 75 100
 157 116.9 87.2 130.8
 155 89.3 67.8 101.8

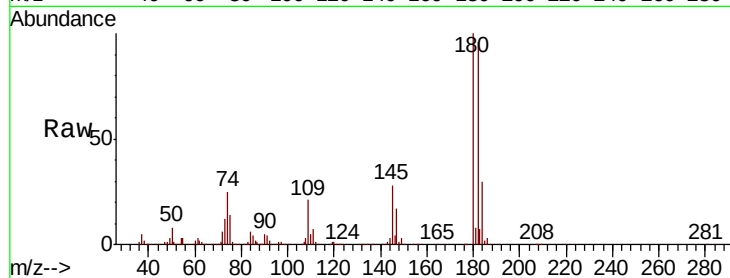




#67
 1,3,5-Trichlorobenzene
 Concen: 29.283 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.8	113.6
184	29.9	24.0	36.0
145	27.7	22.6	33.8



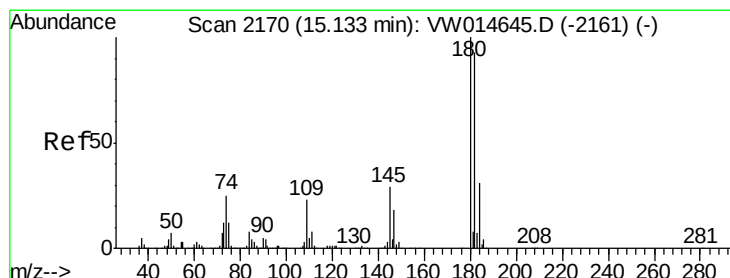
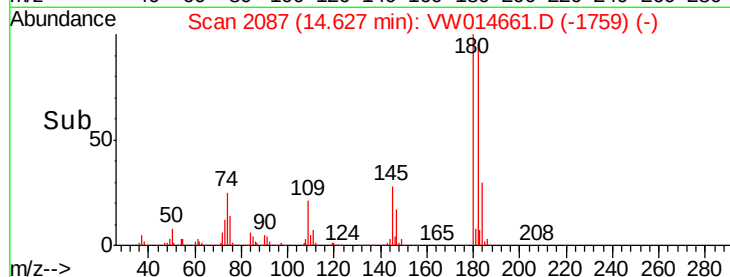
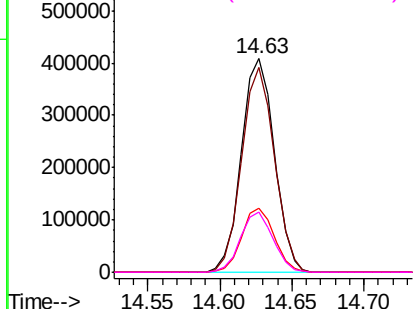
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

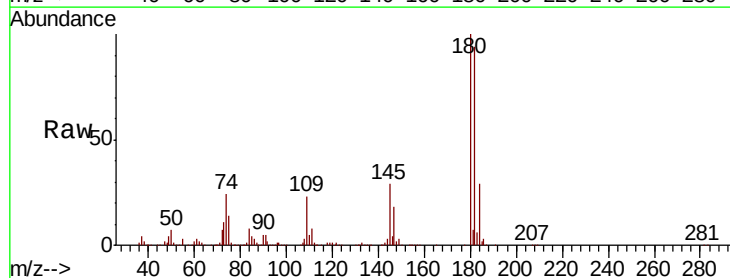
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 31.547 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014661.D
 Acq: 15 Jan 2020 19:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.4
145	28.5	23.1	34.7

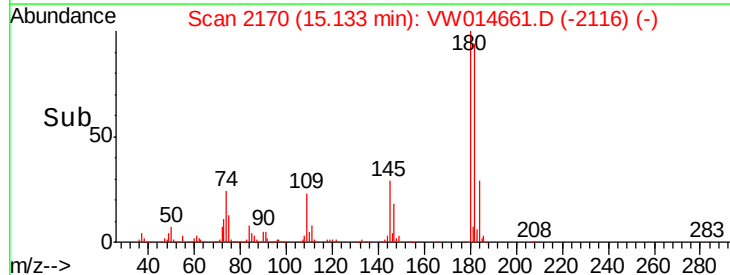
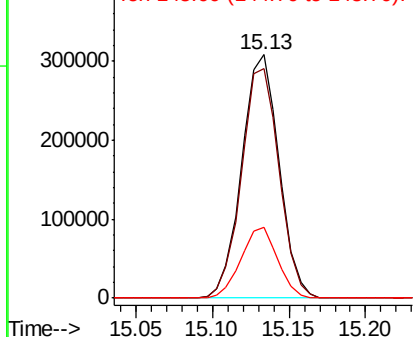


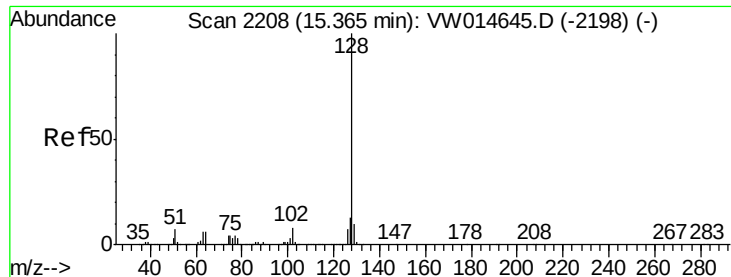
Abundance

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: 38.474 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

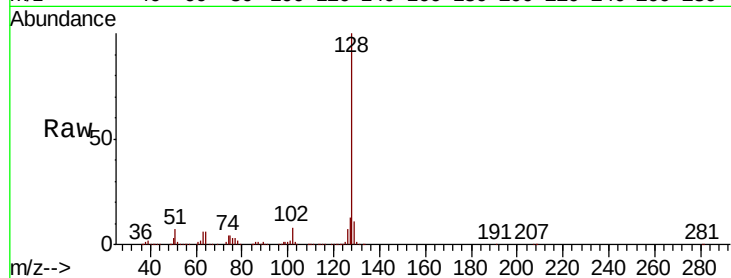
Instrument :

MSVOA_W

ClientSampled :

Tot Ion:128 Resp: 1099810

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.1	10.6	16.0

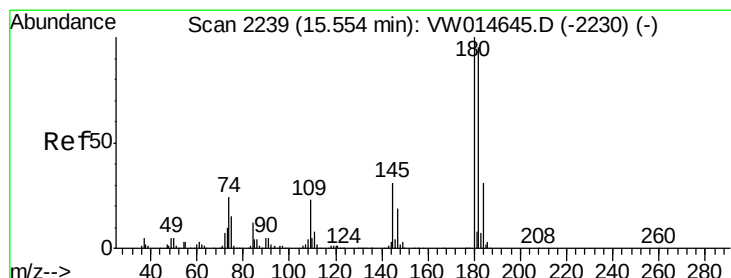
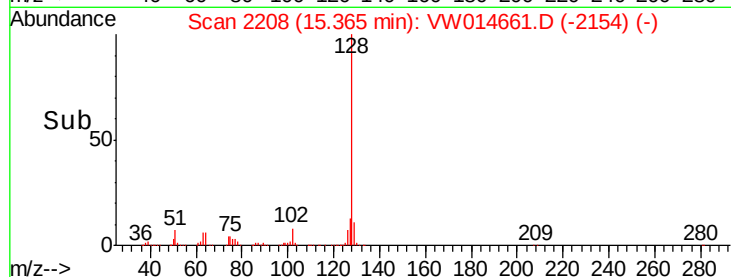
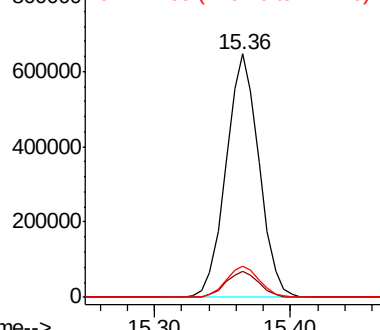


Abundance

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: 31.902 ug/L

RT: 15.55 min Scan# 2239

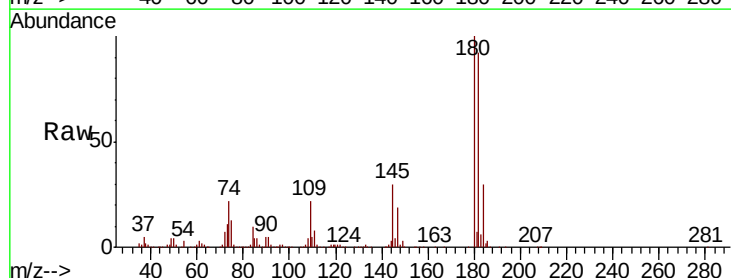
Delta R.T. 0.00 min

Lab File: VW014661.D

Acq: 15 Jan 2020 19:41

Tgt Ion:180 Resp: 478677

Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.0	115.6
145	30.7	24.9	37.3



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

