

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092719\
 Data File : VW013317.D
 Acq On : 27 Sep 2019 11:56
 Operator : SY/VA
 Sample : MDL02
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Quant Time: Sep 28 04:19:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092619S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Sep 28 03:37:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	469359	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	418090	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	203892	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	139632	24.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.80%
7) Chloroethane-d5	2.89	69	110268	24.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.20%
10) 1,1-Dichloroethene-d2	4.01	63	209182	18.99	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.96%
20) 2-Butanone-d5	7.08	46	87148	45.05	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.10%
24) Chloroform-d	7.65	84	253800	23.98	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.92%
26) 1,2-Dichloroethane-d4	8.30	65	139030	24.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.24%
29) Benzene-d6	8.27	84	560802	24.70	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.80%
33) 1,2-Dichloropropane-d6	9.27	67	166050	24.54	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.16%
37) Toluene-d8	10.32	98	523432	24.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.96%
38) trans-1,3-Dichloropropene-	10.58	79	71205	23.43	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.72%
39) 2-Hexanone-d5	10.92	63	69418	46.90	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.80%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	135753	23.63	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.52%
61) 1,2-Dichlorobenzene-d4	13.85	152	184524	25.33	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.32%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	3725m	1.268	ug/L	
3) Chloromethane	2.21	50	7536	1.915	ug/L	88
5) Vinyl chloride	2.36	62	10261	1.885	ug/L #	73
6) Bromomethane	2.78	94	6502	1.879	ug/L	98
8) Chloroethane	2.92	64	5955	1.803	ug/L	97
9) Trichlorofluoromethane	3.25	101	5696	1.688	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	11764	2.207	ug/L #	61
12) 1,1-Dichloroethene	4.04	96	12138	2.243	ug/L #	1
13) Acetone	4.13	43	7876m	4.892	ug/L	
14) Carbon disulfide	4.38	76	28595	1.862	ug/L #	94
15) Methyl Acetate	4.68	43	5565	1.791	ug/L #	76
16) Methylene chloride	4.92	84	26201	3.736	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	17441	1.864	ug/L #	90
18) trans-1,2-Dichloroethene	5.43	96	10759	1.860	ug/L	94
19) 1,1-Dichloroethane	6.21	63	19561	1.928	ug/L	96
21) 2-Butanone	7.18	43	10241m	4.416	ug/L	
22) cis-1,2-Dichloroethene	7.17	96	11671	1.851	ug/L	83

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

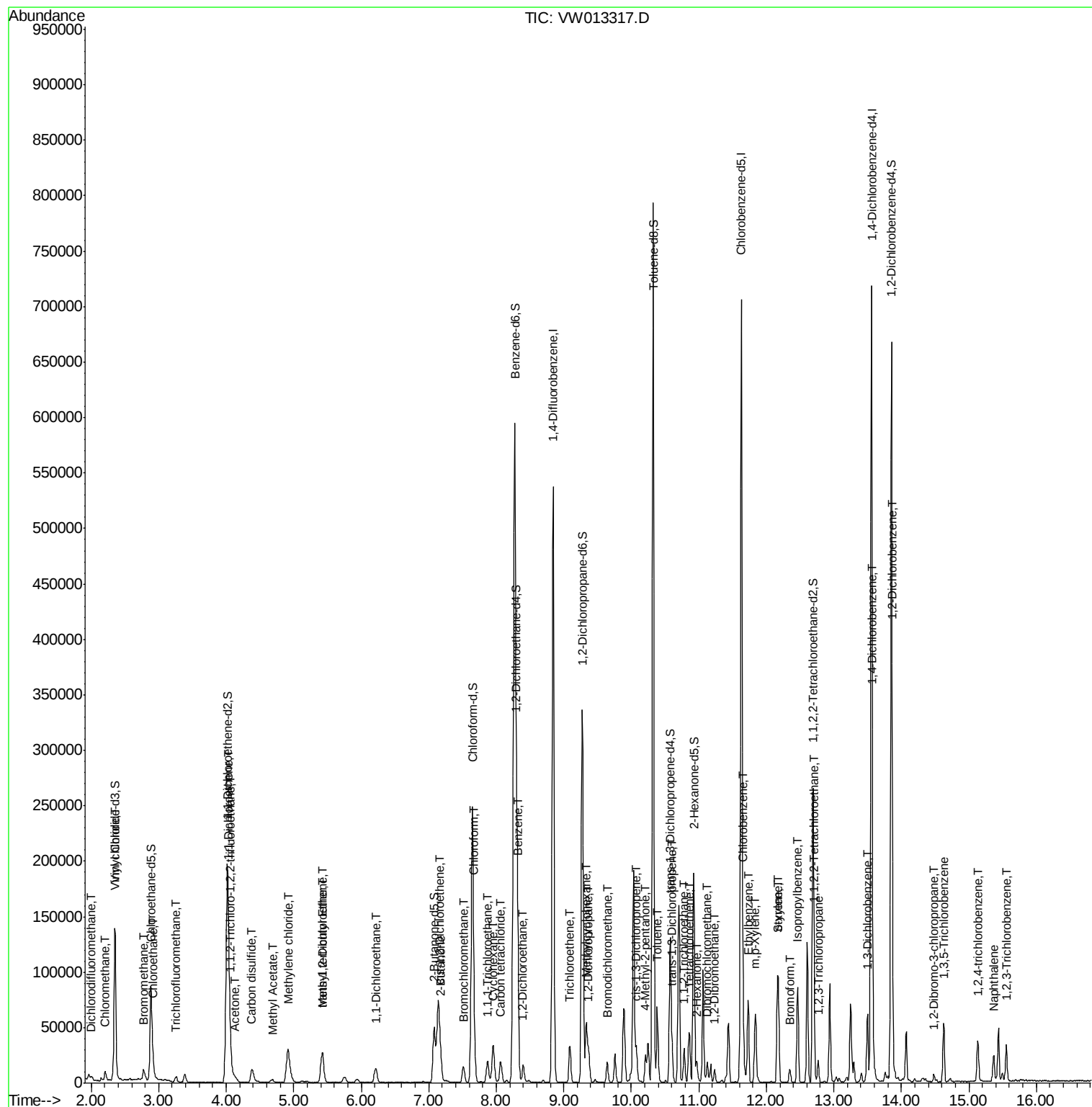
23) Bromochloromethane	7.51	128	5728	2.019	ug/L	83
25) Chloroform	7.67	83	20785	2.084	ug/L	93
27) 1,2-Dichloroethane	8.40	62	13033	1.996	ug/L	96
30) Cyclohexane	7.95	56	18976	1.890	ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	15370	1.915	ug/L	98
32) Carbon tetrachloride	8.07	117	14795	1.934	ug/L	99
34) Benzene	8.32	78	45319	1.933	ug/L	100
35) Trichloroethene	9.09	95	11860	1.926	ug/L	98
36) Methylcyclohexane	9.34	83	20400	1.860	ug/L	96
40) 1,2-Dichloropropane	9.37	63	11416	1.980	ug/L #	90
41) Bromodichloromethane	9.65	83	13519	1.911	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	17795	1.932	ug/L	91
43) 4-Methyl-2-pentanone	10.21	43	17990	4.075	ug/L	96
44) Toluene	10.38	91	50786	1.990	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	15861m	2.142	ug/L	
46) 1,1,2-Trichloroethane	10.79	97	8441	1.868	ug/L #	92
47) Tetrachloroethene	10.87	164	10339	1.866	ug/L	91
49) 2-Hexanone	10.97	43	11310	3.564	ug/L	98
50) Dibromochloromethane	11.13	129	9860	1.903	ug/L	95
51) 1,2-Dibromoethane	11.24	107	8611	1.940	ug/L #	98
52) Chlorobenzene	11.66	112	31741	1.974	ug/L	98
53) Ethylbenzene	11.73	91	53782	1.901	ug/L	95
54) m,p-Xylene	11.83	106	20991	1.933	ug/L	93
55) o-xylene	12.16	106	18523	1.807	ug/L	84
56) Styrene	12.18	104	30254	1.722	ug/L	95
57) Isopropylbenzene	12.46	105	51371	1.854	ug/L	97
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	10039	1.804	ug/L #	92
59) 1,2,3-Trichloropropane	12.77	75	7509	1.808	ug/L	89
62) Bromoform	12.35	173	5989	1.857	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	25355	2.021	ug/L	96
64) 1,4-Dichlorobenzene	13.58	146	24908	1.965	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	22006	1.928	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	1636	1.820	ug/L	85
67) 1,3,5-Trichlorobenzene	14.63	180	18425	1.907	ug/L	97
68) 1,2,4-trichlorobenzene	15.13	180	12795	1.659	ug/L	95
69) Naphthalene	15.37	128	20378	1.383	ug/L #	91
70) 1,2,3-Trichlorobenzene	15.55	180	11935	1.702	ug/L	100

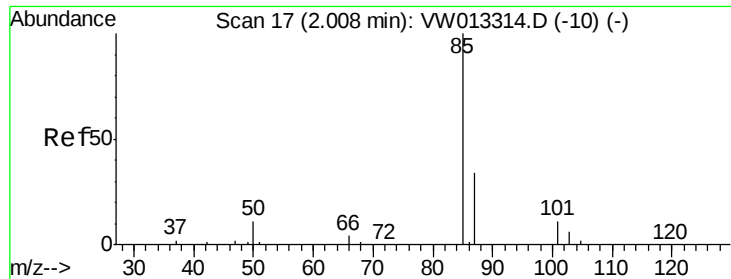
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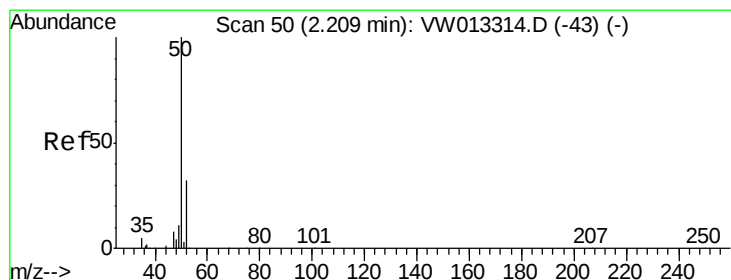
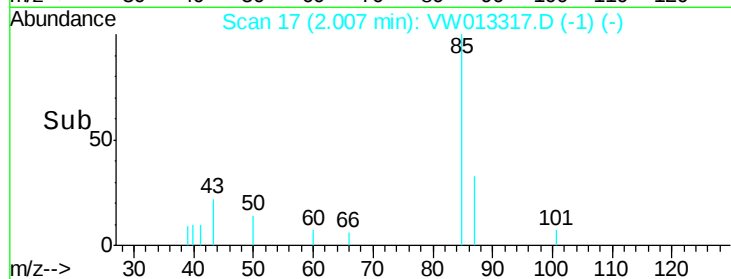
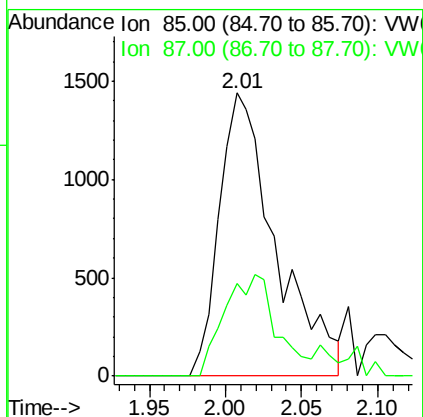
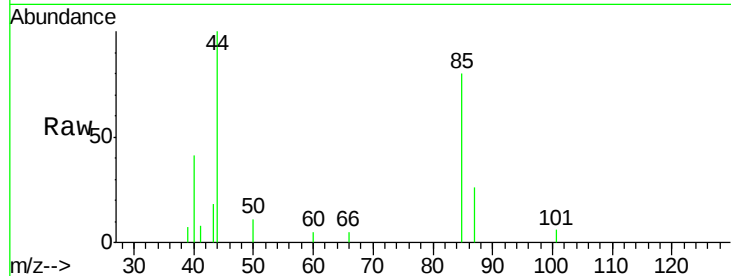


#2

Dichlorodifluoromethane
Concen: 1.268 ug/L m
RT: 2.01 min Scan# 17
Delta R.T. -0.00 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

Instrument :
MSVOA_W
ClientSampled :
MDL02

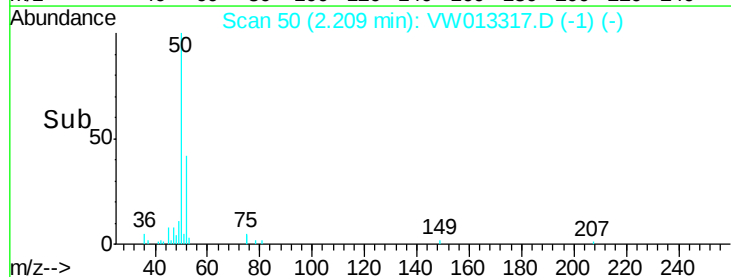
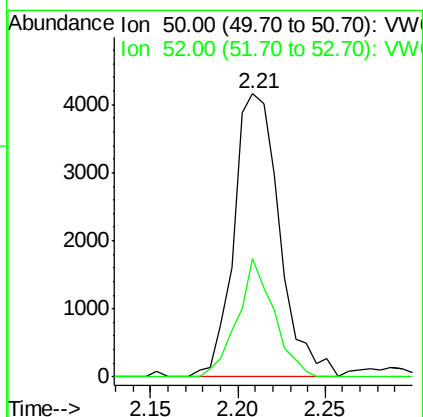
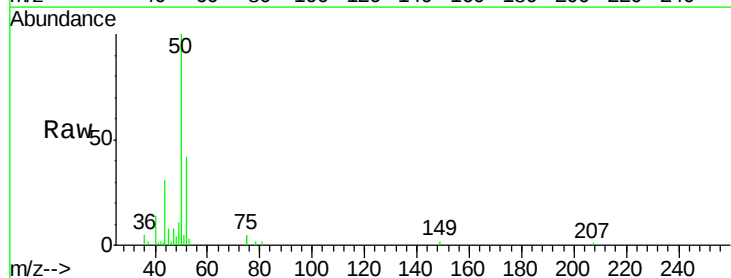
Tot Ion: 85 Resp: 3725
Ion Ratio Lower Upper
85 100
87 33.1 21.3 39.6

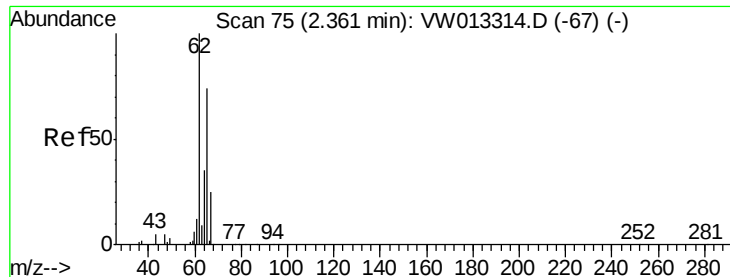


#3

Chloromethane
Concen: 1.915 ug/L
RT: 2.21 min Scan# 50
Delta R.T. -0.00 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

Tgt Ion: 50 Resp: 7536
Ion Ratio Lower Upper
50 100
52 41.7 24.4 45.4





#5

Vinyl chloride

Concen: 1.885 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

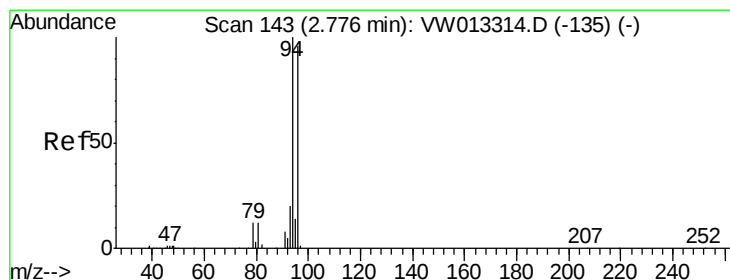
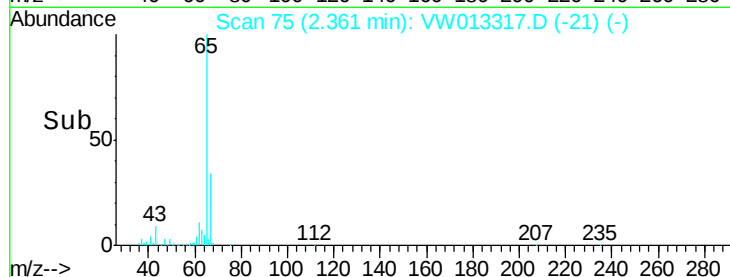
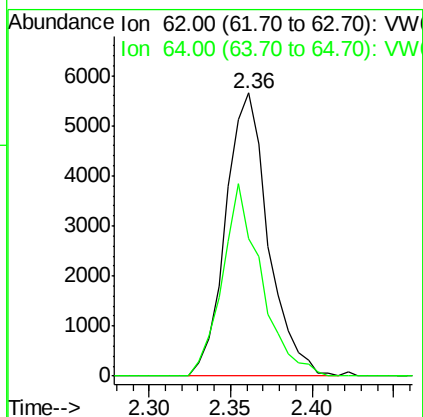
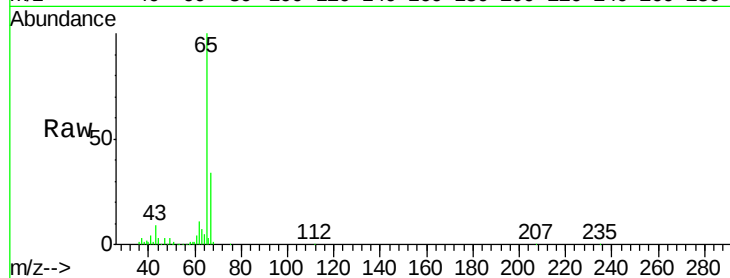
MDL02

Tot Ion: 62 Resp: 10261

Ion Ratio Lower Upper

62 100

64 48.6 23.2 43.0#



#6

Bromomethane

Concen: 1.879 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW013317.D

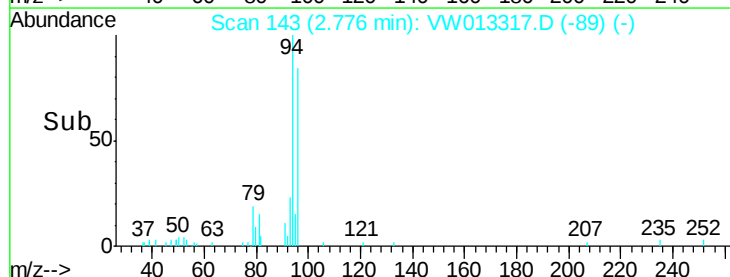
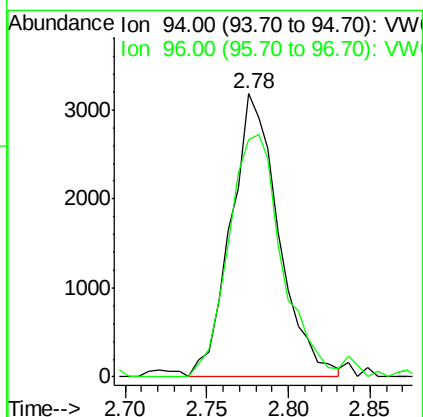
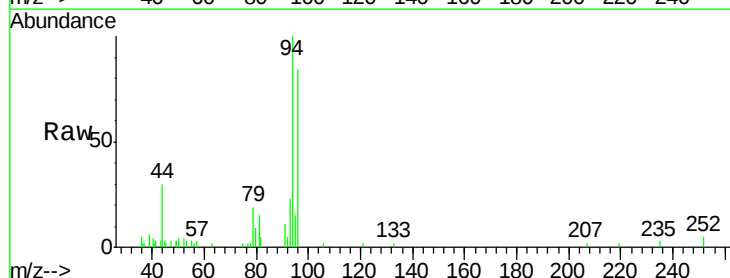
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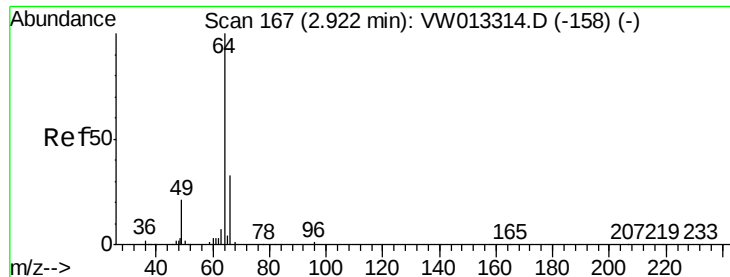
Tgt Ion: 94 Resp: 6502

Ion Ratio Lower Upper

94 100

96 95.4 9.7 184.3





#8

Chloroethane

Concen: 1.803 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

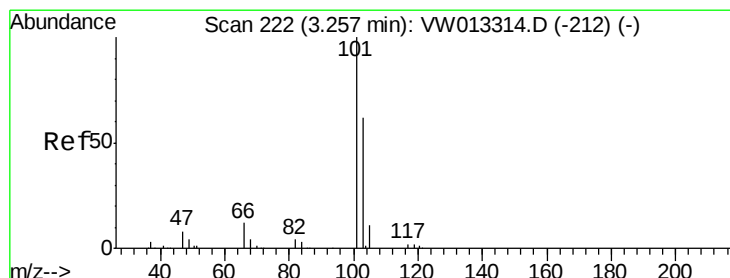
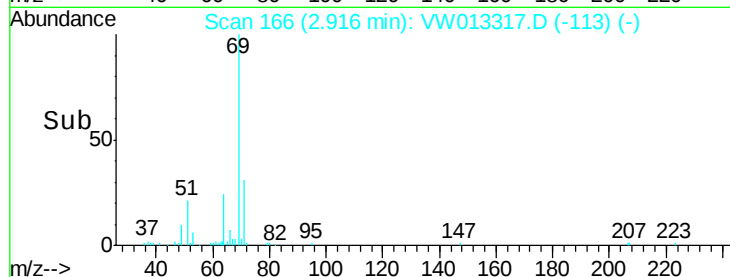
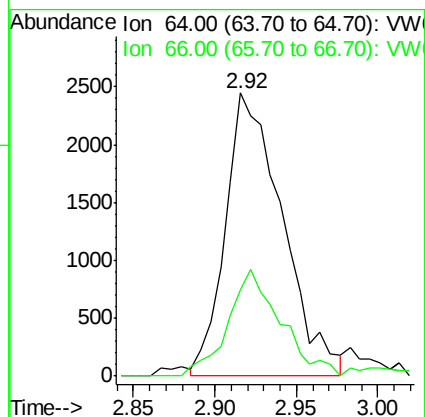
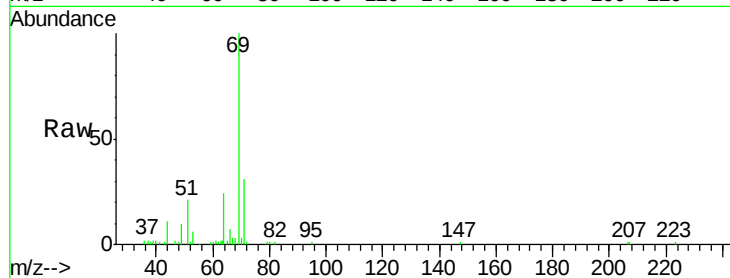
MDL02

Tot Ion: 64 Resp: 5955

Ion Ratio Lower Upper

64 100

66 30.6 22.7 42.1



#9

Trichlorofluoromethane

Concen: 1.688 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW013317.D

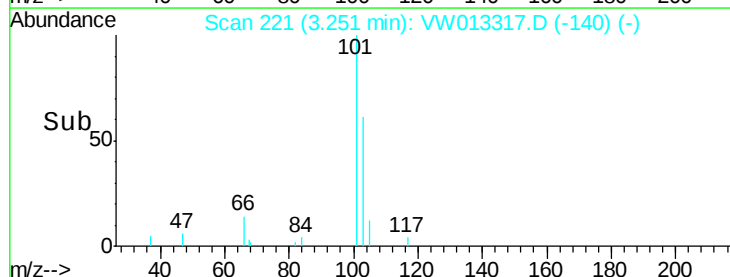
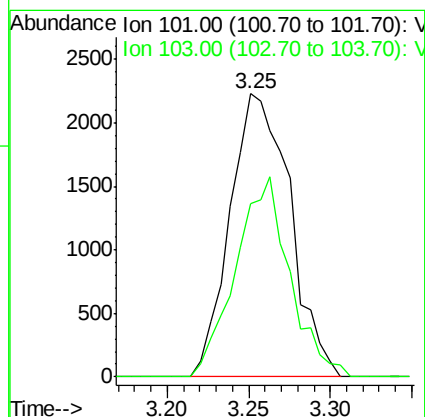
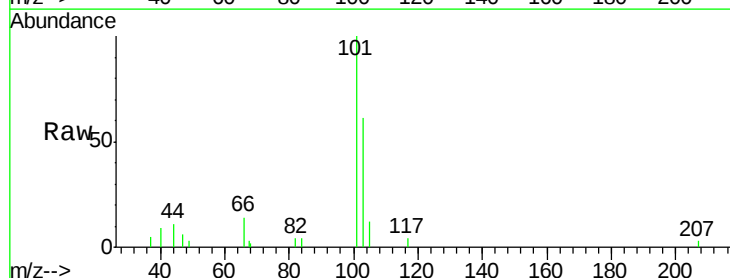
Acq: 27 Sep 2019 11:56

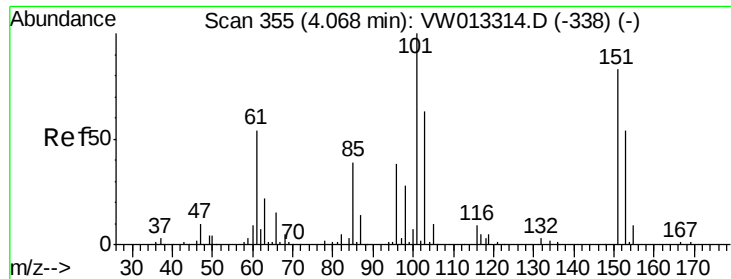
Tgt Ion: 101 Resp: 5696

Ion Ratio Lower Upper

101 100

103 63.6 45.2 84.0





#11

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

Concen: 2.207 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

MDL02

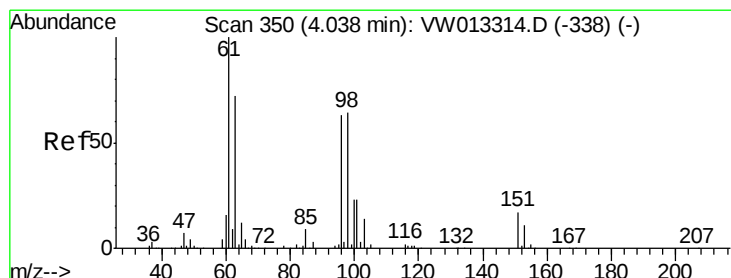
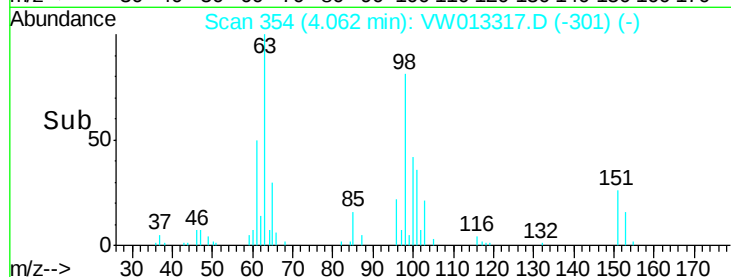
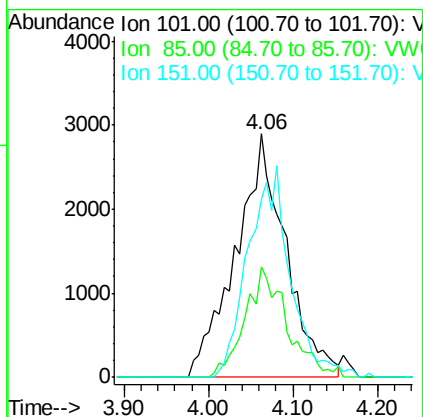
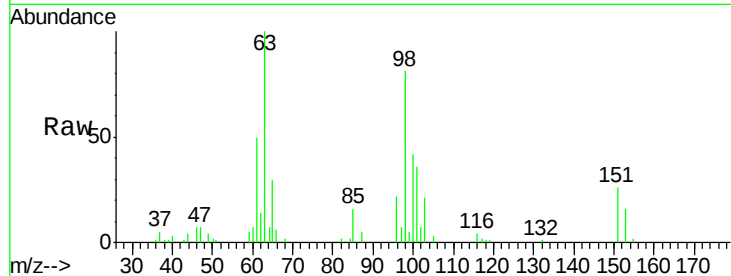
Tot Ion:101 Resp: 11764

Ion Ratio Lower Upper

101 100

85 23.2 31.8 47.8#

151 41.7 65.4 98.0#



#12

1,1-Dichloroethene

Concen: 2.243 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

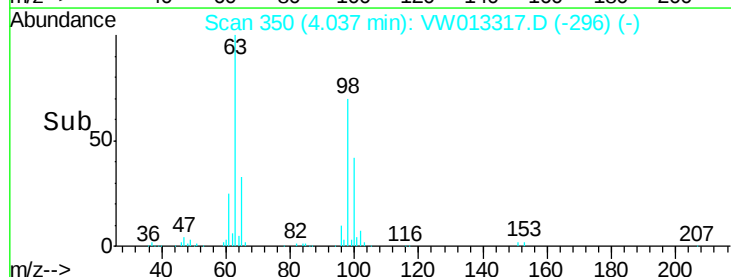
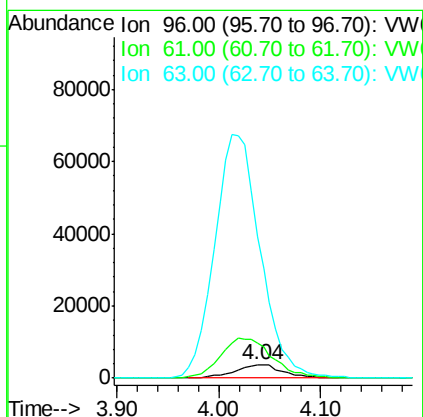
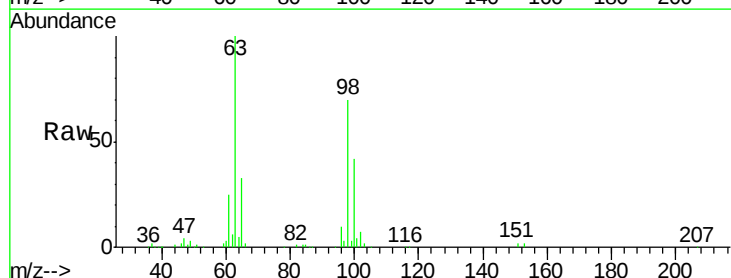
Tgt Ion: 96 Resp: 12138

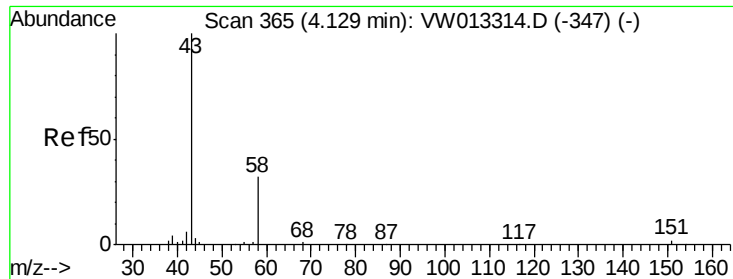
Ion Ratio Lower Upper

96 100

61 261.1 115.9 215.3#

63 1034.9 88.9 165.1#





#13

Acetone

Concen: 4.892 ug/L m

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

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Acq: 27 Sep 2019 11:56

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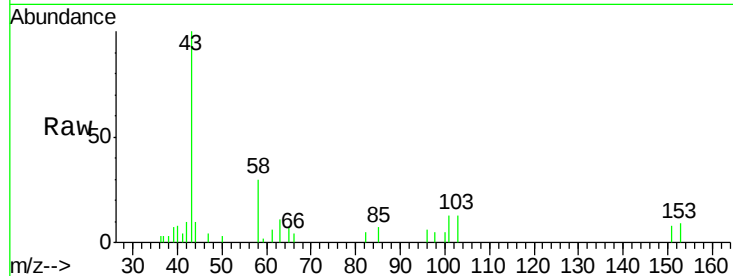
MDL02

Tot Ion: 43 Resp: 7876

Ion Ratio Lower Upper

43 100

58 12.3 0.0 63.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

2500

2000

1500

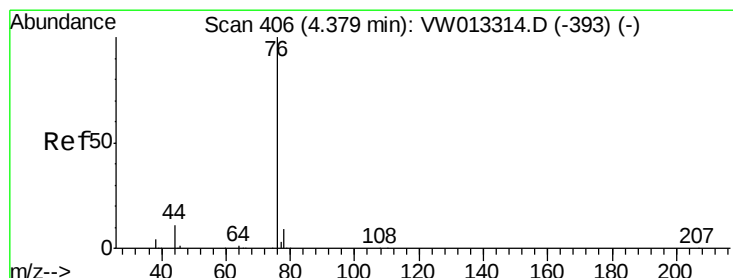
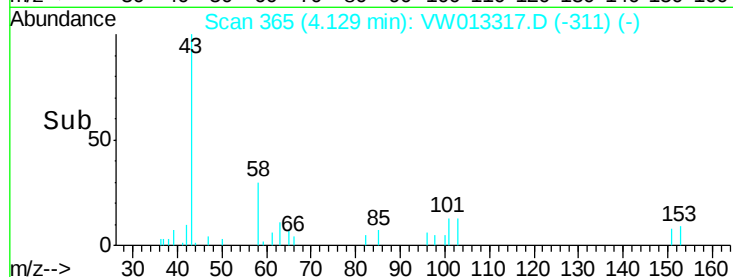
1000

500

0

4.10 4.13 4.20

Time-->



#14

Carbon disulfide

Concen: 1.862 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW013317.D

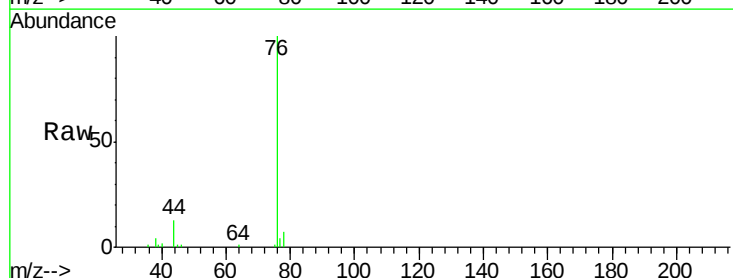
Acq: 27 Sep 2019 11:56

Tgt Ion: 76 Resp: 28595

Ion Ratio Lower Upper

76 100

78 6.9 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

10000

8000

6000

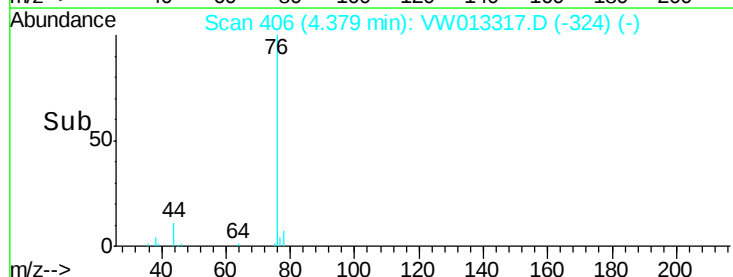
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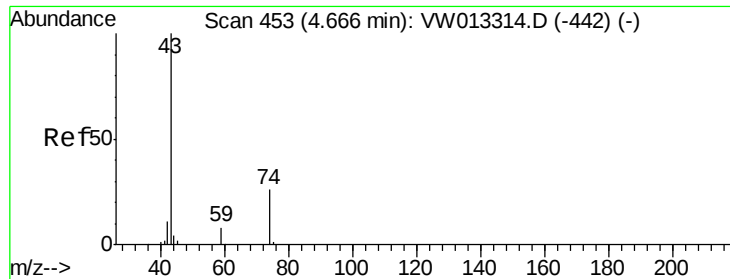
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0

4.30 4.35 4.38 4.40 4.45 4.50

Time-->

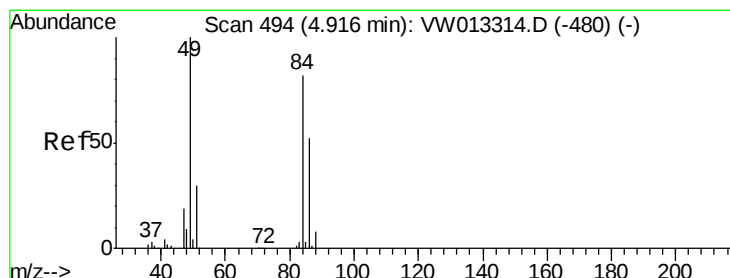
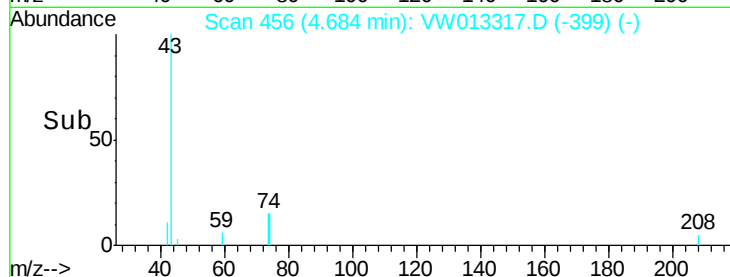
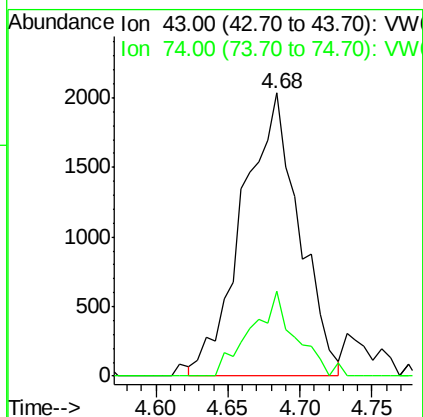
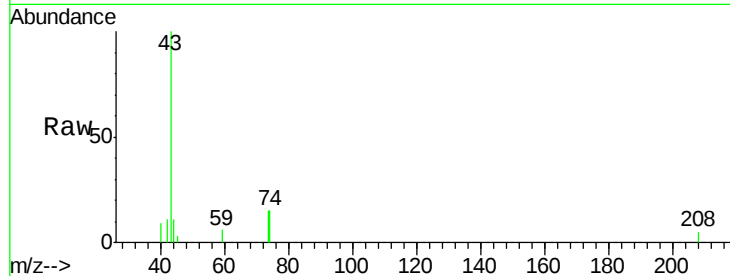




#15
Methyl Acetate
Concen: 1.791 ug/L
RT: 4.68 min Scan# 456
Delta R.T. 0.02 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

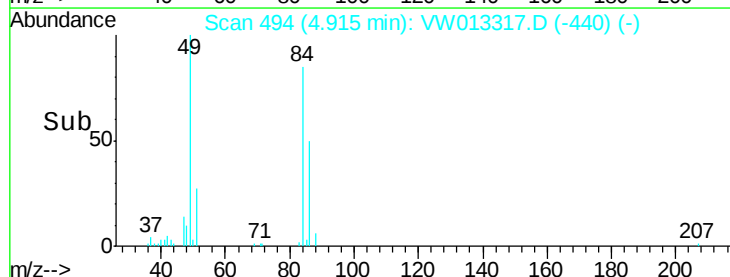
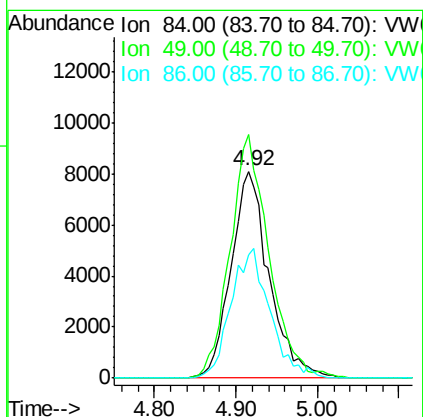
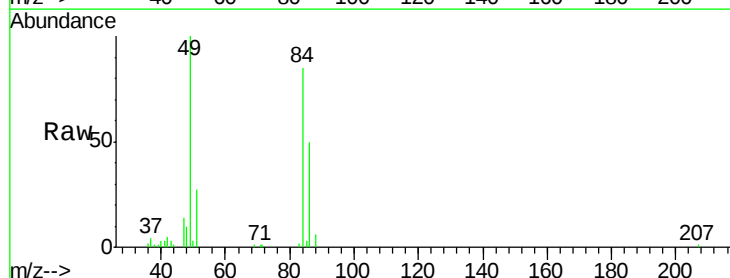
Instrument :
MSVOA_W
ClientSampled :
MDL02

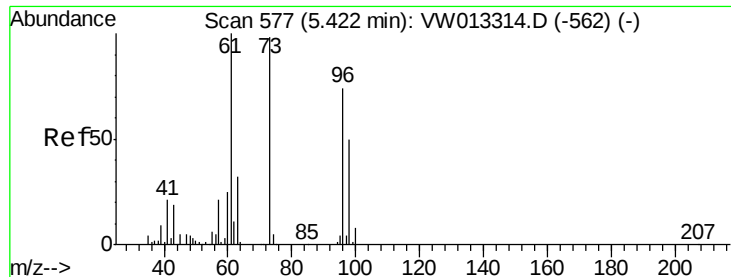
Tot Ion: 43 Resp: 5565
Ion Ratio Lower Upper
43 100
74 11.8 18.7 28.1#



#16
Methylene chloride
Concen: 3.736 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

Tgt Ion: 84 Resp: 26201
Ion Ratio Lower Upper
84 100
49 117.6 84.8 157.4
86 59.3 44.0 81.6

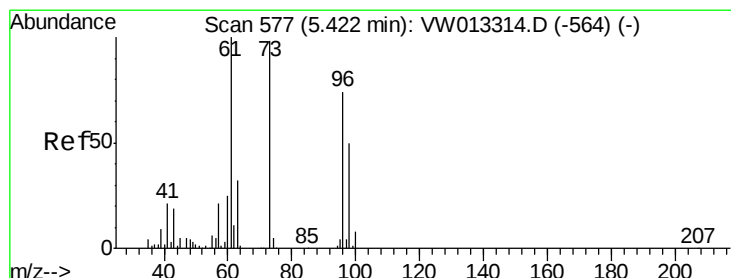
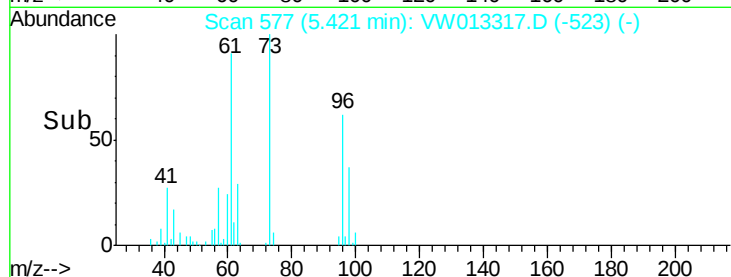
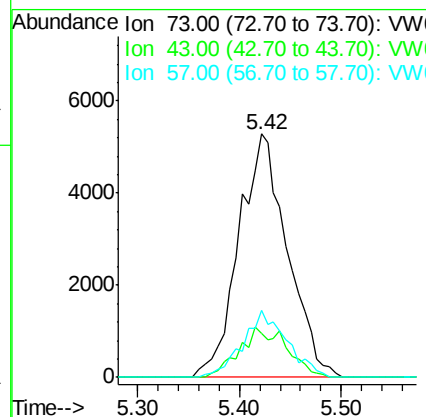
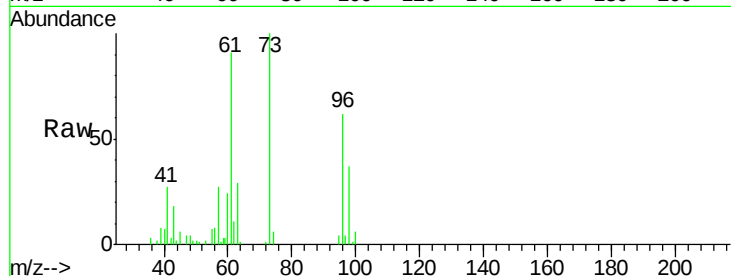




#17
Methvl tert-butvl Ether
Concen: 1.864 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

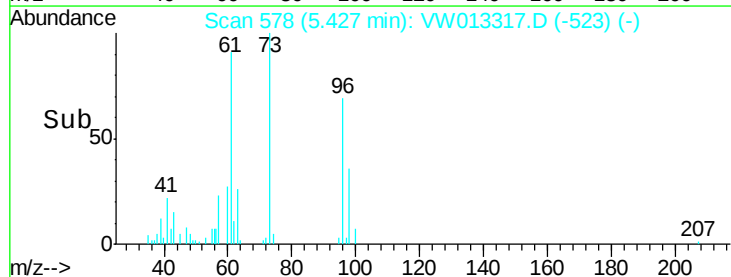
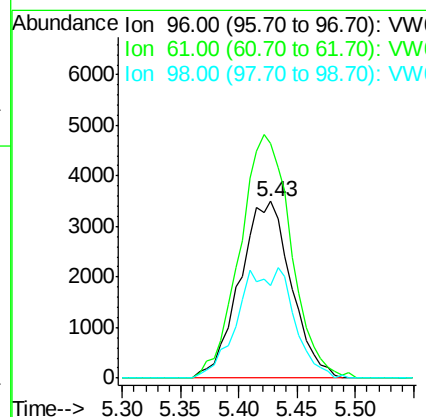
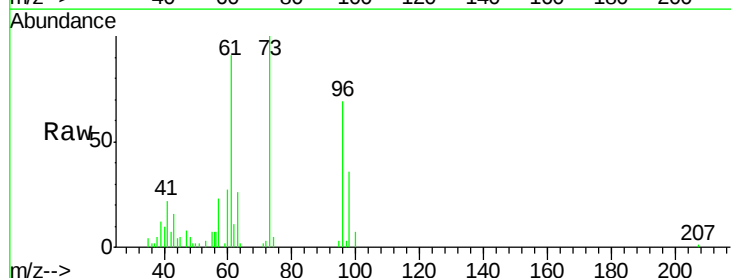
Instrument :
MSVOA_W
ClientSampled :
MDL02

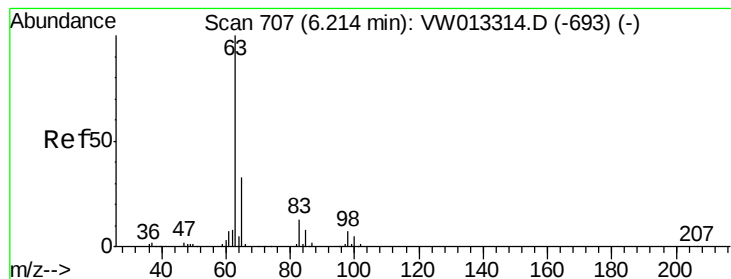
Tot Ion: 73 Resp: 17441
Ion Ratio Lower Upper
73 100
43 9.0 15.3 22.9#
57 23.0 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 1.860 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

Tgt Ion: 96 Resp: 10759
Ion Ratio Lower Upper
96 100
61 132.6 91.2 169.4
98 52.2 44.7 82.9





#19

1,1-Dichloroethane

Concen: 1.928 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

MDL02

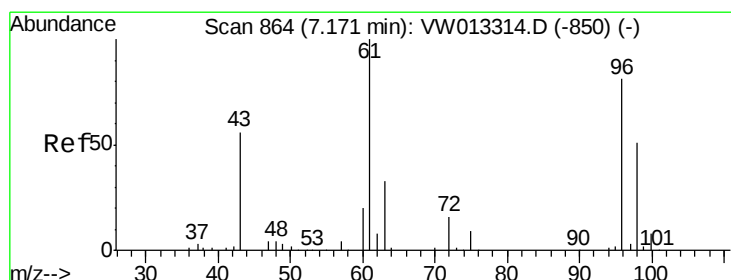
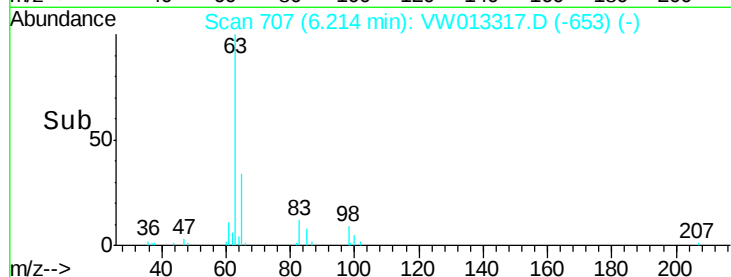
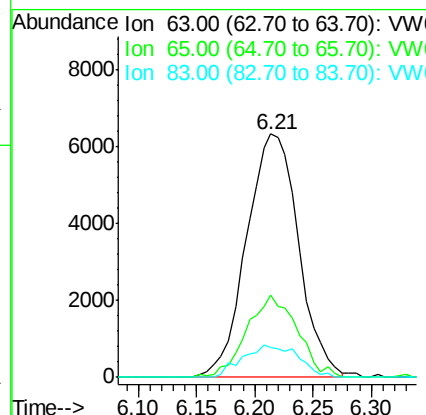
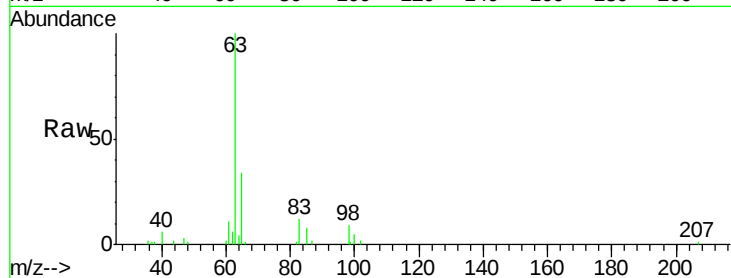
Tot Ion: 63 Resp: 19561

Ion Ratio Lower Upper

63 100

65 33.9 21.8 40.4

83 12.5 9.3 17.3



#21

2-Butanone

Concen: 4.416 ug/L m

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013317.D

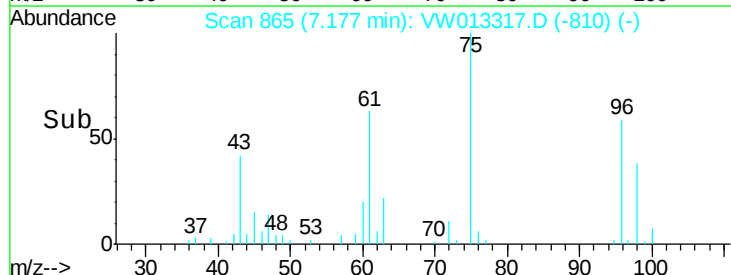
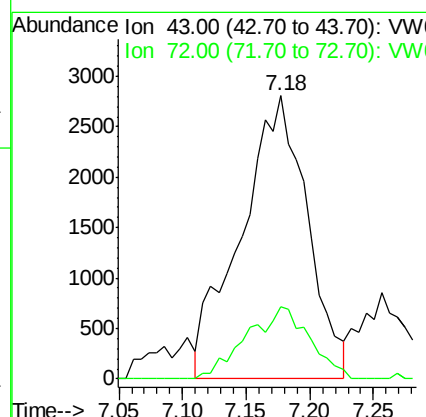
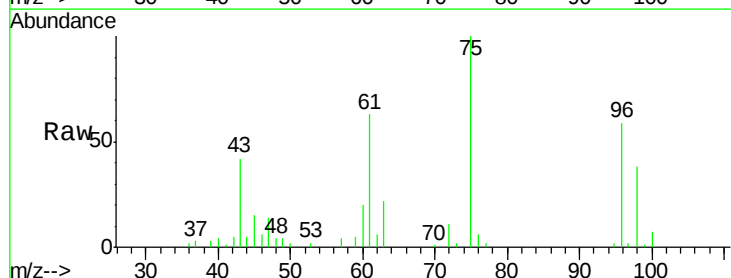
Acq: 27 Sep 2019 11:56

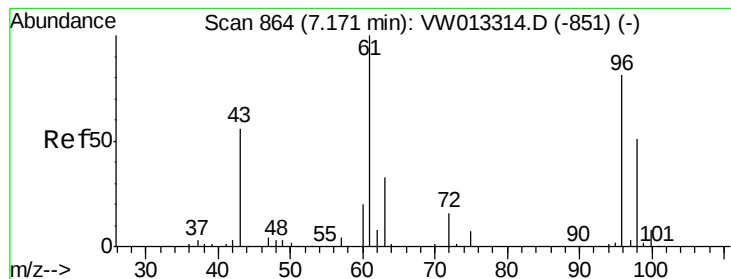
Tgt Ion: 43 Resp: 10241

Ion Ratio Lower Upper

43 100

72 14.5 13.2 39.6



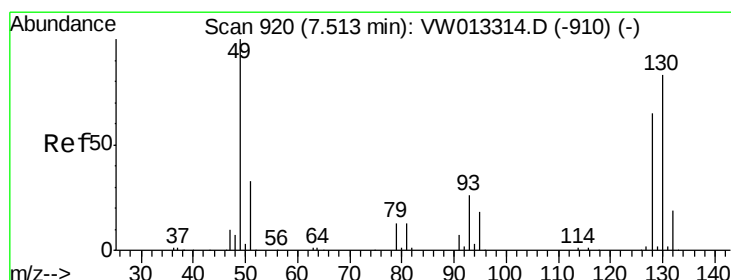
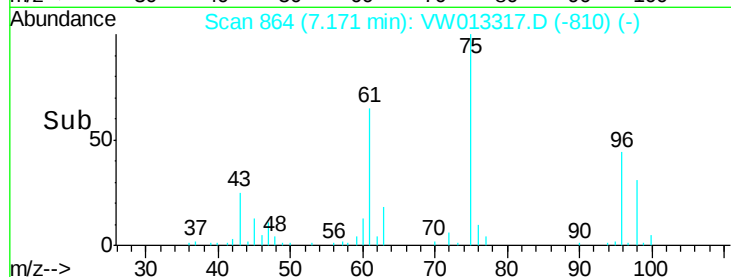
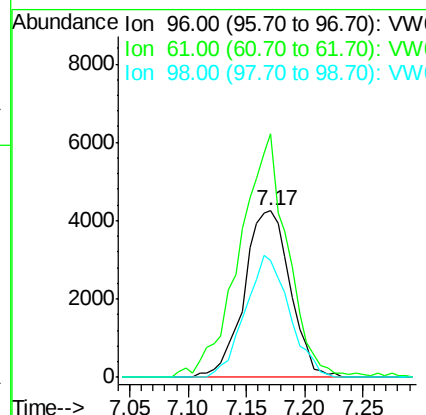
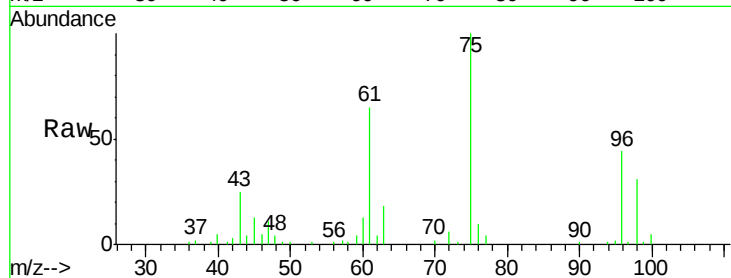


#22

cis-1,2-Dichloroethene
Concen: 1.851 ug/L
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

Instrument :
MSVOA_W
ClientSampled :
MDL02

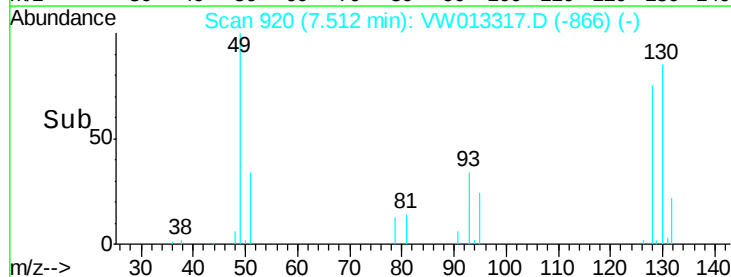
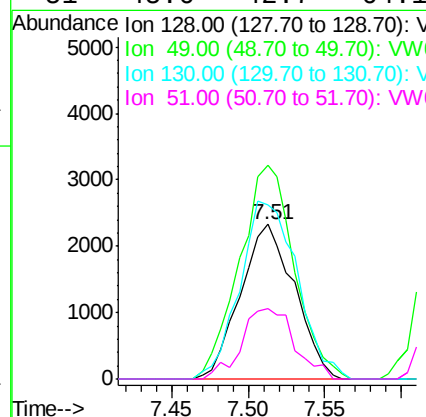
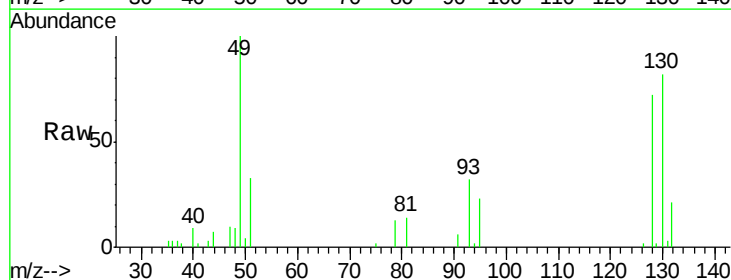
Tot Ion: 96 Resp: 11671
Ion Ratio Lower Upper
96 100
61 146.0 86.0 159.6
98 69.9 43.5 80.9

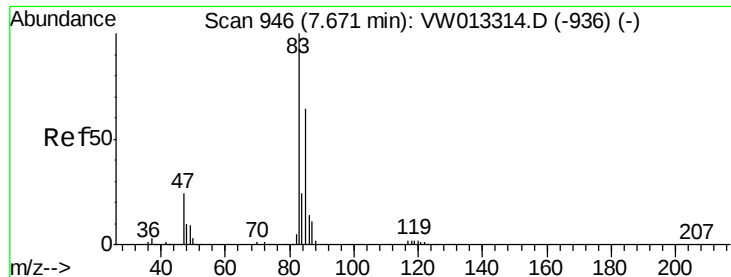


#23

Bromochloromethane
Concen: 2.019 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

Tgt Ion: 128 Resp: 5728
Ion Ratio Lower Upper
128 100
49 138.3 114.6 212.8
130 112.8 92.6 172.0
51 45.6 42.7 64.1





#25

Chloroform

Concen: 2.084 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

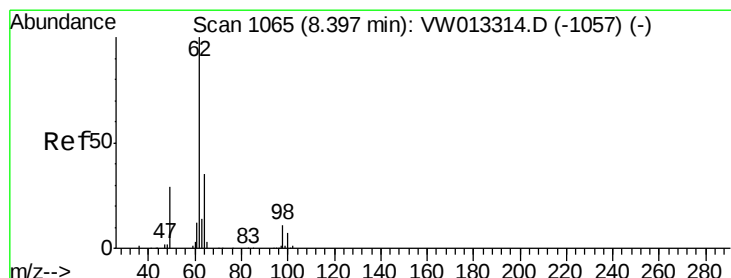
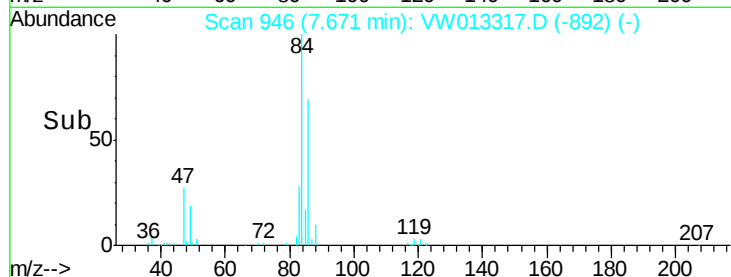
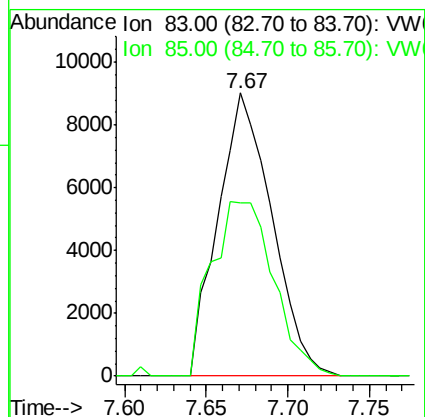
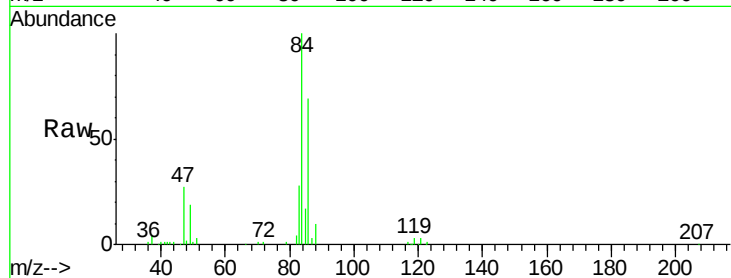
MDL02

Tot Ion: 83 Resp: 20785

Ion Ratio Lower Upper

83 100

85 71.3 45.9 85.3



#27

1,2-Dichloroethane

Concen: 1.996 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW013317.D

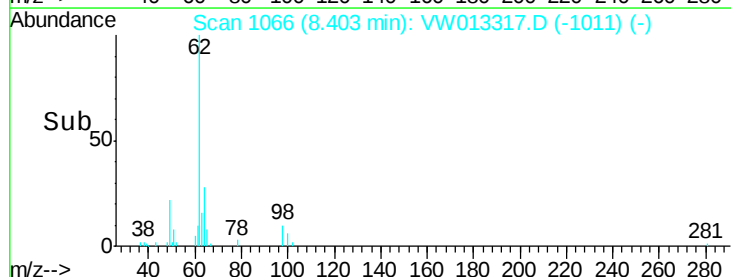
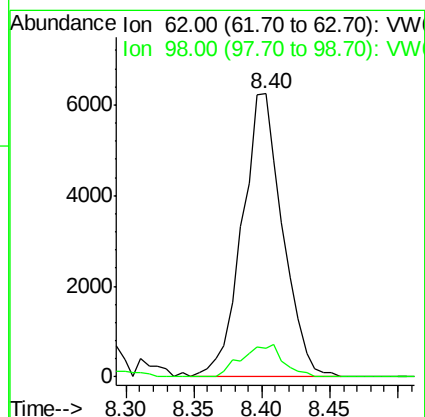
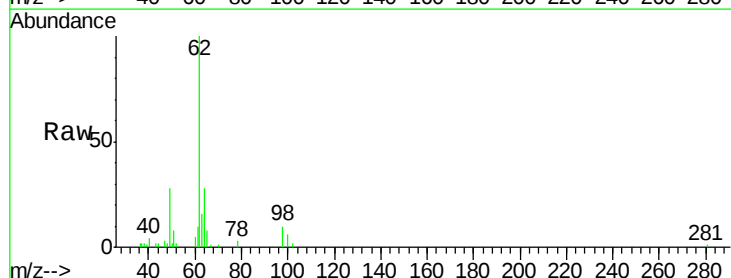
Acq: 27 Sep 2019 11:56

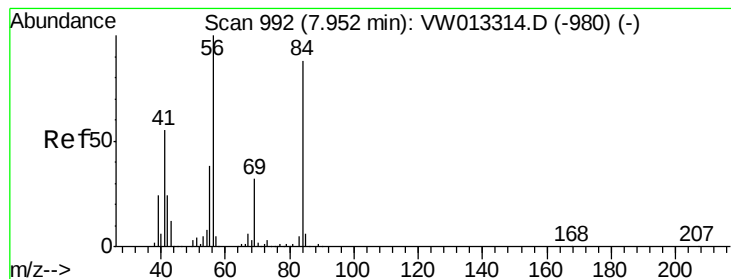
Tgt Ion: 62 Resp: 13033

Ion Ratio Lower Upper

62 100

98 9.9 9.0 13.6





#30

Cvclohexane

Concen: 1.890 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampleId :

MDL02

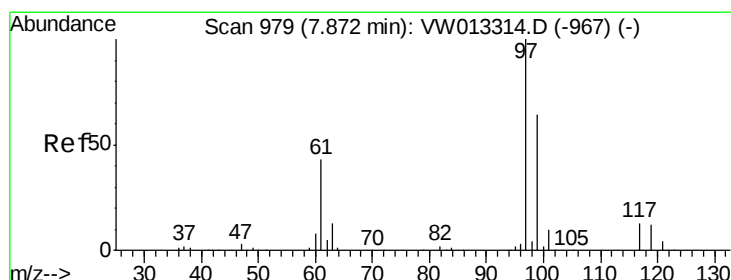
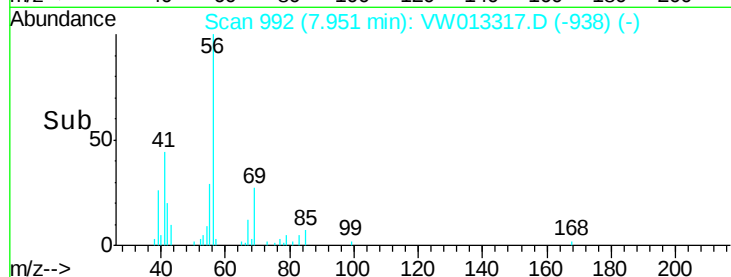
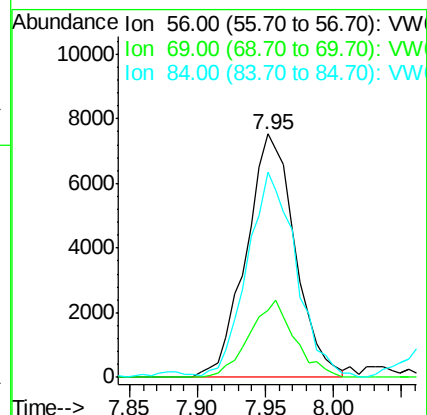
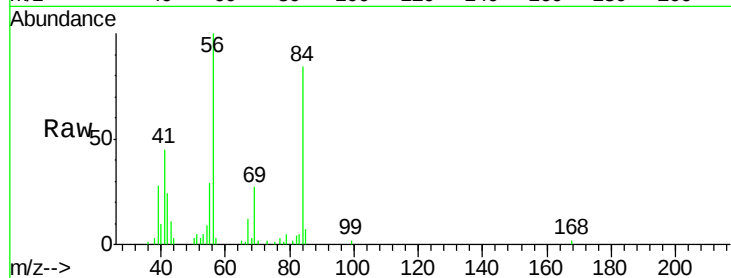
Tot Ion: 56 Resp: 18976

Ion Ratio Lower Upper

56 100

69 29.5 24.6 37.0

84 84.4 69.5 104.3



#31

1,1,1-Trichloroethane

Concen: 1.915 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

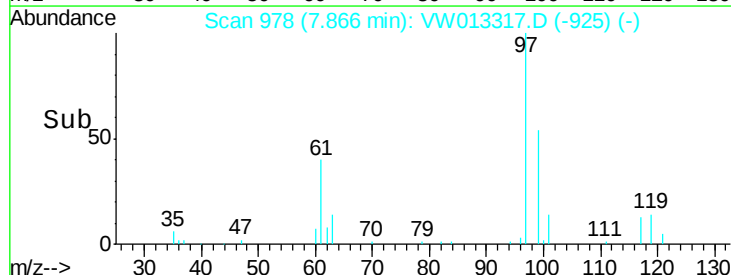
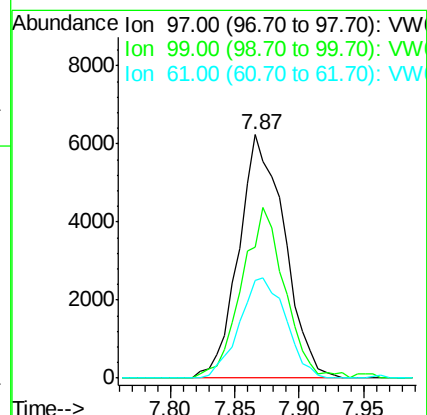
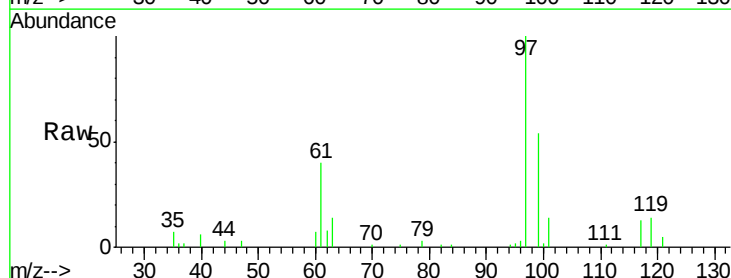
Tgt Ion: 97 Resp: 15370

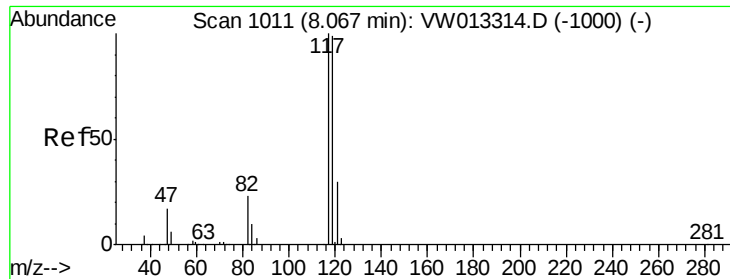
Ion Ratio Lower Upper

97 100

99 64.8 50.6 75.8

61 41.8 34.2 51.2





#32

Carbon tetrachloride

Concen: 1.934 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampleId :

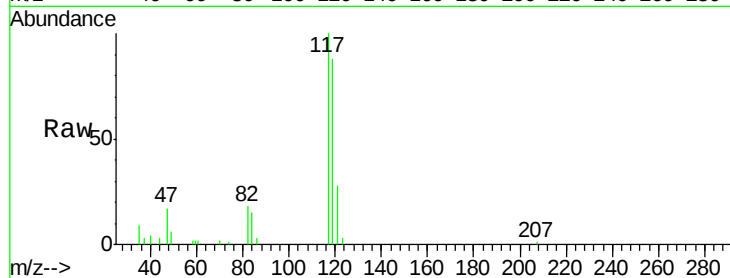
MDL02

Tot Ion:117 Resp: 14795

Ion Ratio Lower Upper

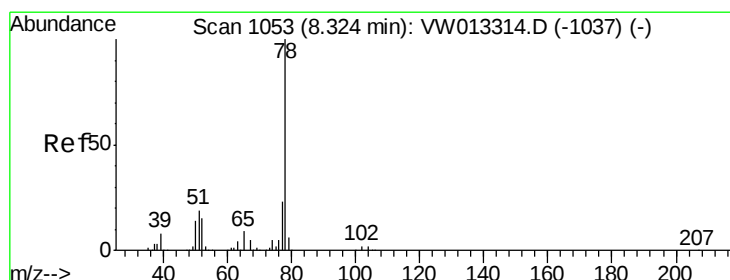
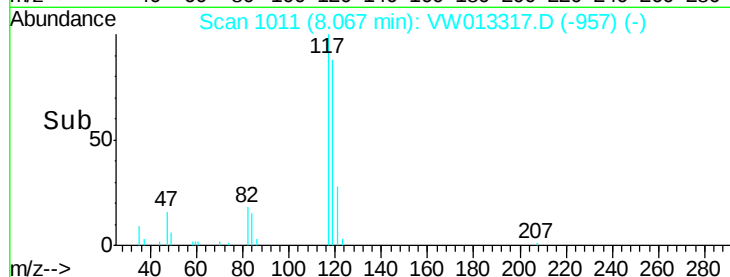
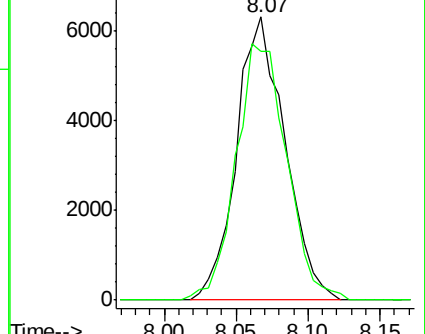
117 100

119 94.6 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 1.933 ug/L

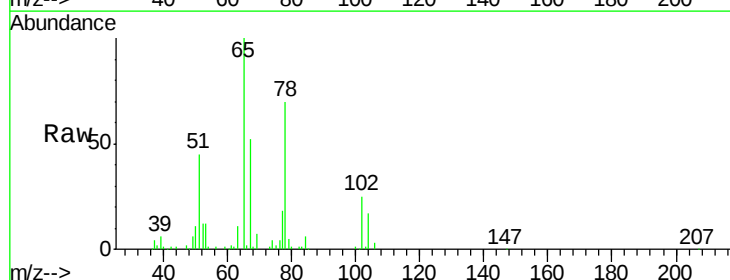
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

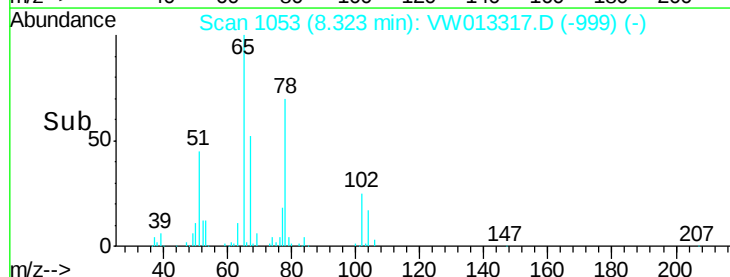
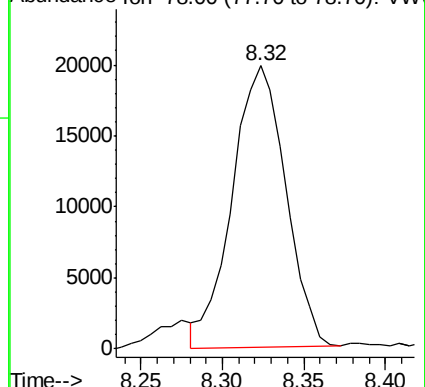
Lab File: VW013317.D

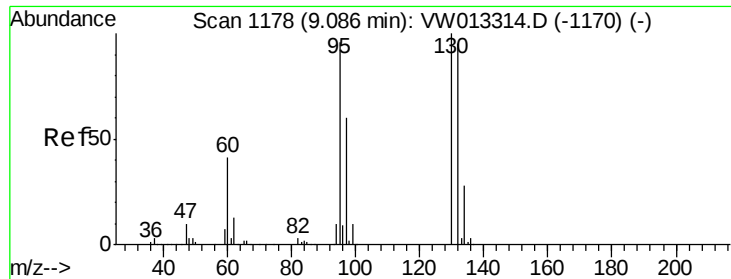
Acq: 27 Sep 2019 11:56

Tgt Ion: 78 Resp: 45319



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 1.926 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion: 95 Resp: 11860

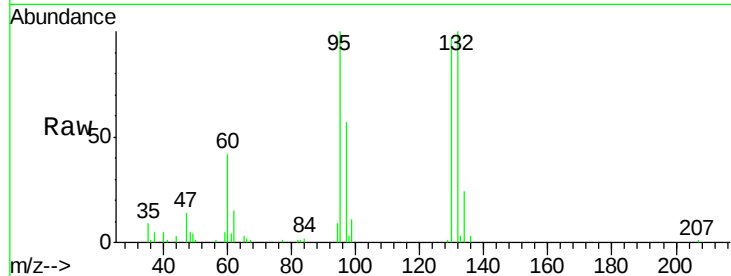
Ion Ratio Lower Upper

95 100

97 61.5 44.3 82.3

132 99.7 71.7 133.3

130 105.8 74.1 137.7

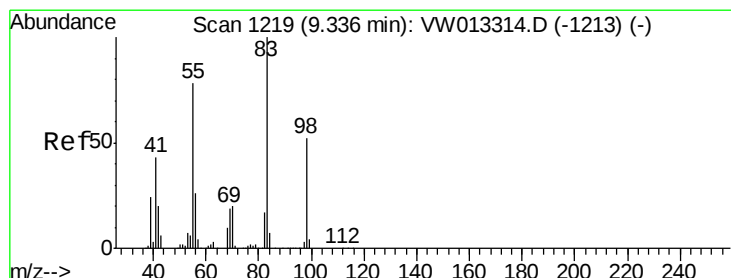
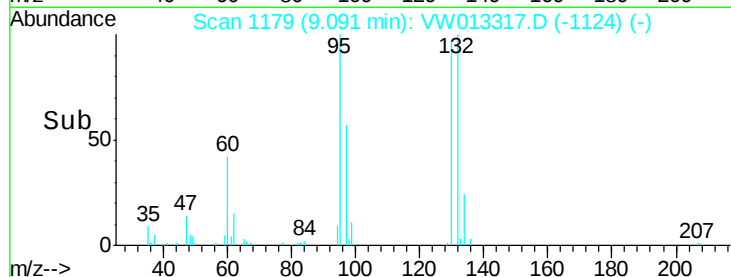
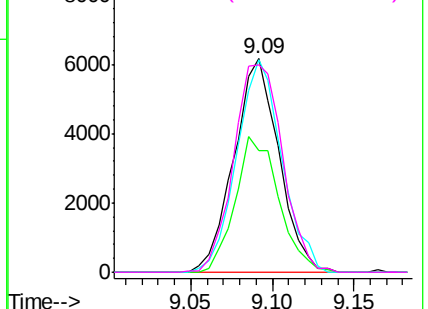


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 1.860 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

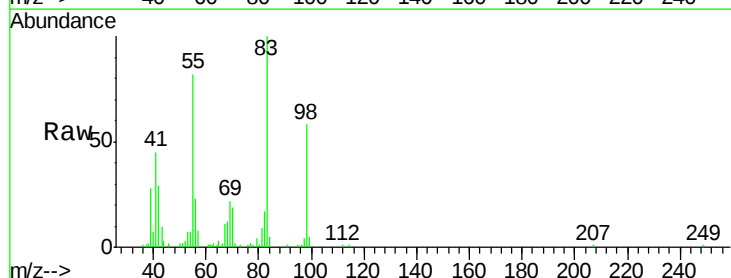
Tgt Ion: 83 Resp: 20400

Ion Ratio Lower Upper

83 100

55 82.3 61.8 92.6

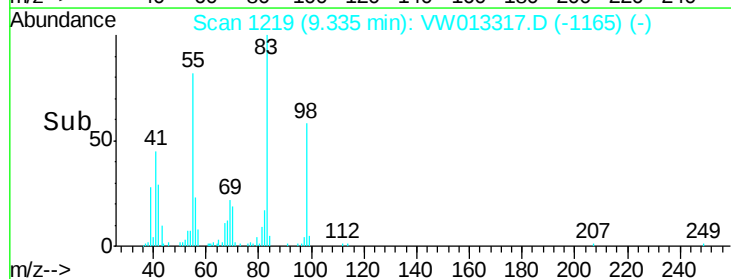
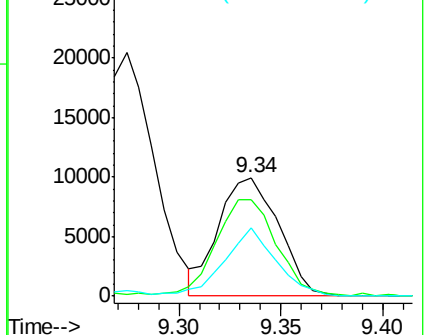
98 49.7 39.6 59.4

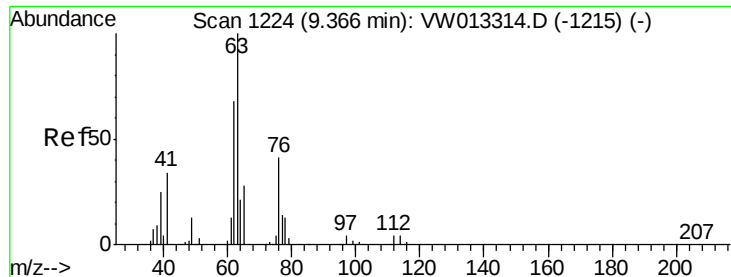


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 1.980 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampleId :

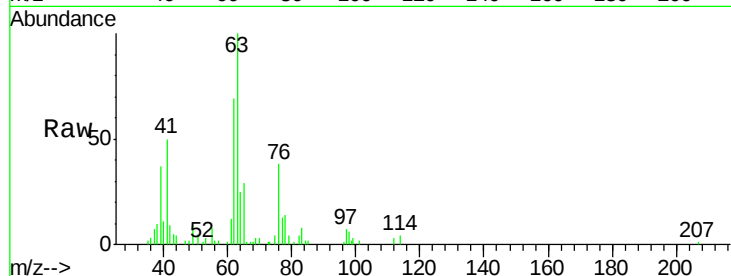
MDL02

Tot Ion: 63 Resp: 11416

Ion Ratio Lower Upper

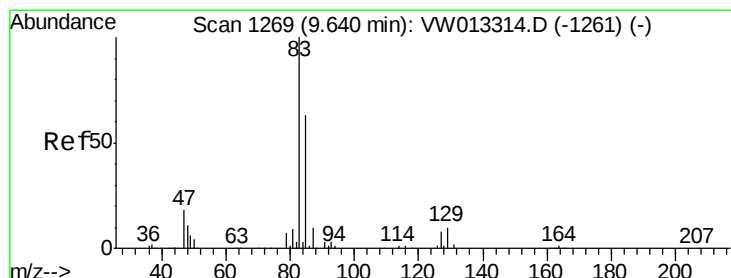
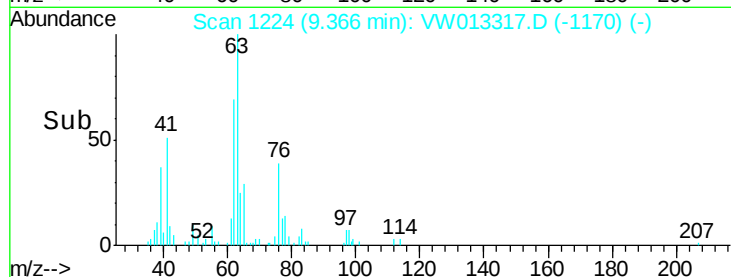
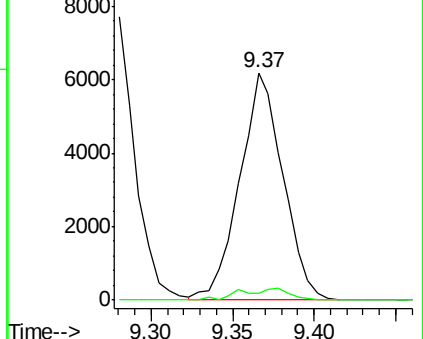
63 100

112 1.8 4.1 6.1#



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 1.911 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

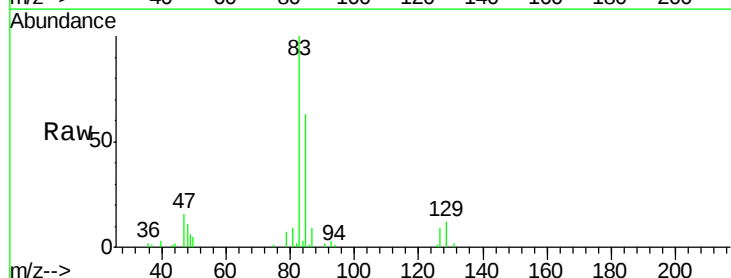
Tgt Ion: 83 Resp: 13519

Ion Ratio Lower Upper

83 100

85 63.3 43.8 81.4

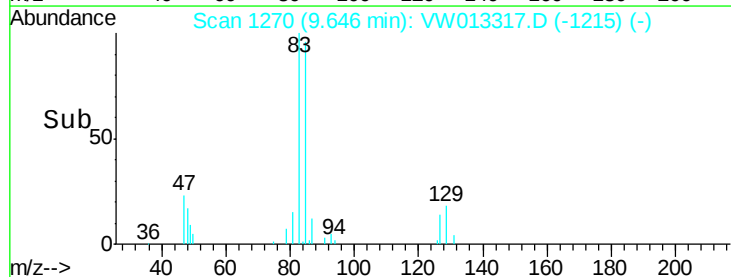
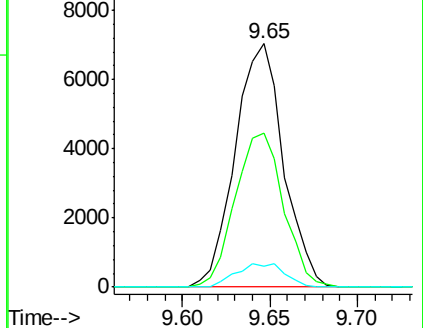
127 8.8 7.0 10.6

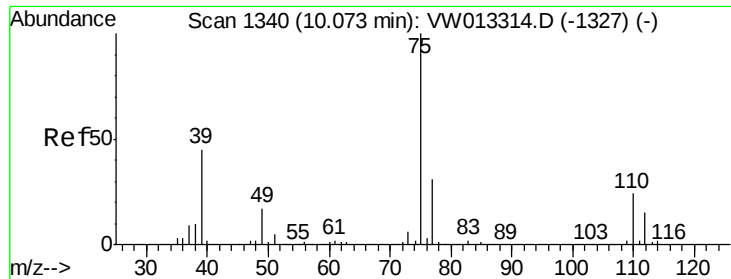


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

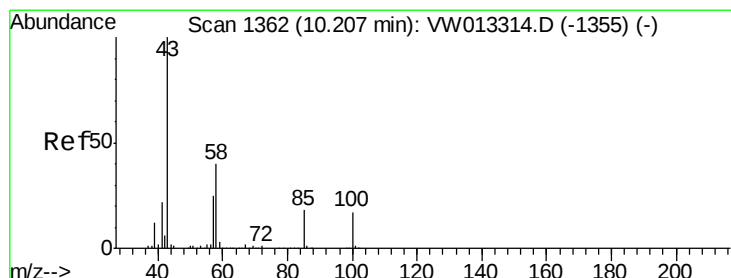
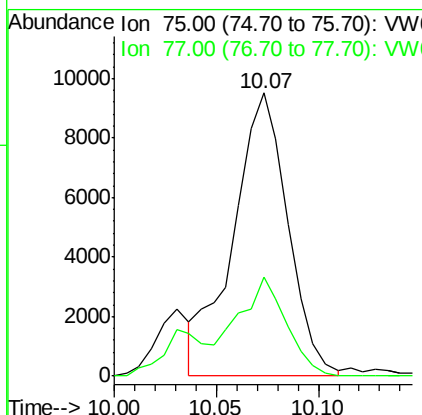
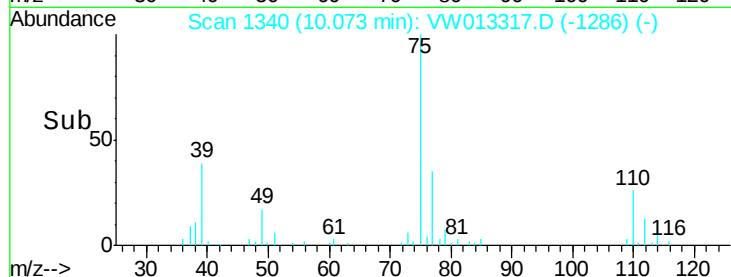
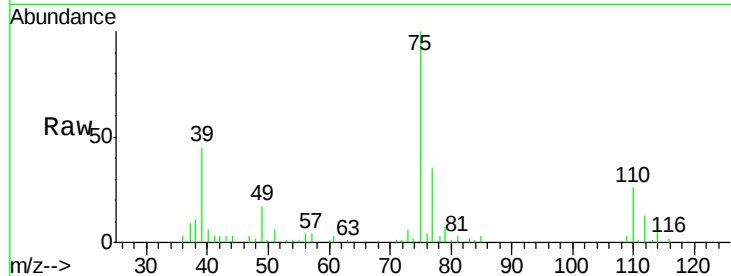




#42
 cis-1,3-Dichloropropene
 Concen: 1.932 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

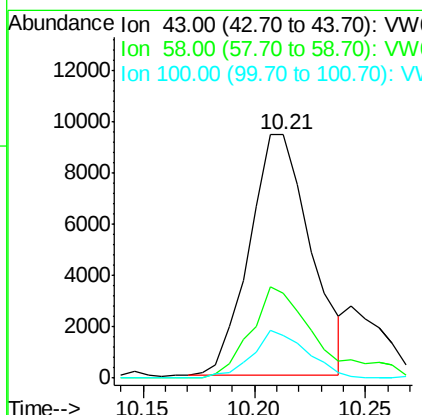
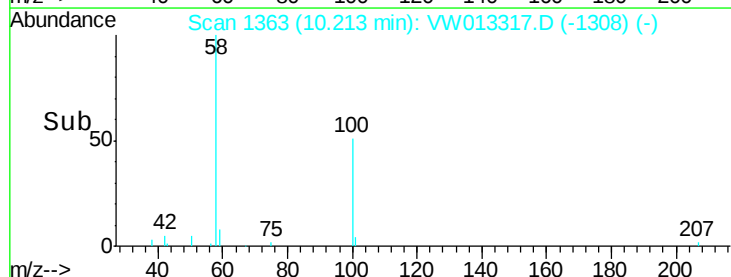
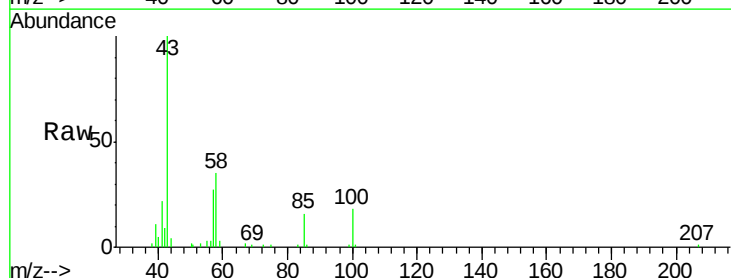
Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

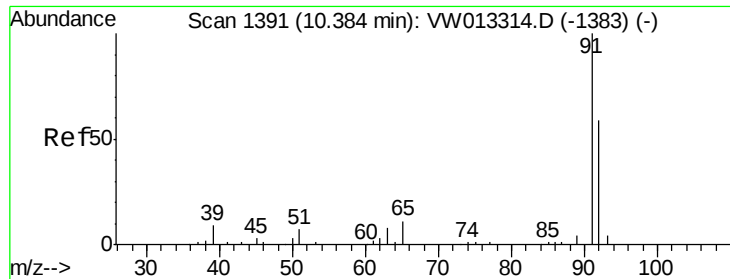
Tot Ion: 75 Resp: 17795
 Ion Ratio Lower Upper
 75 100
 77 35.0 21.3 39.5



#43
 4-Methyl-2-pentanone
 Concen: 4.075 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

Tgt Ion: 43 Resp: 17990
 Ion Ratio Lower Upper
 43 100
 58 38.1 32.7 49.1
 100 17.5 12.9 19.3





#44

Toluene

Concen: 1.990 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

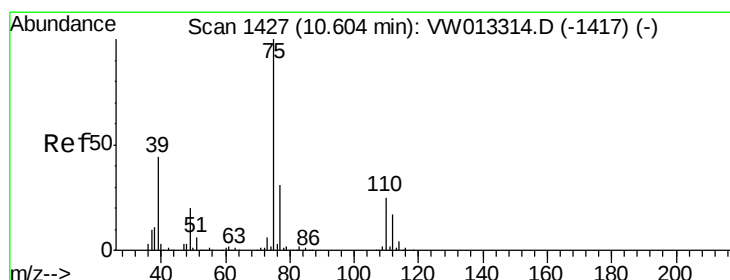
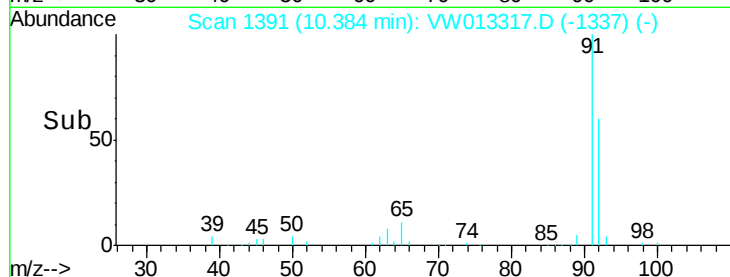
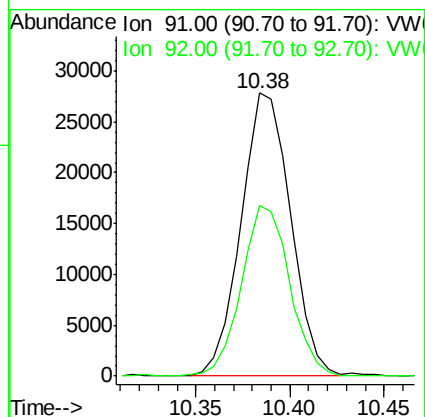
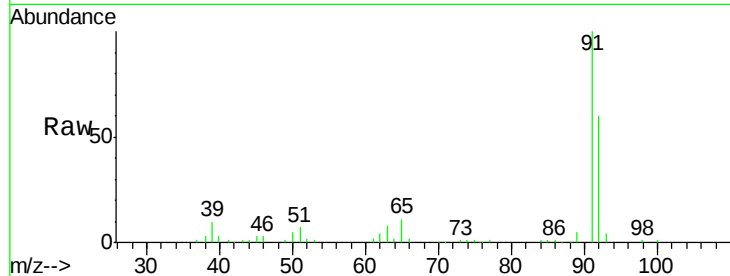
MDL02

Tot Ion: 91 Resp: 50786

Ion Ratio Lower Upper

91 100

92 60.3 41.5 77.1



#45

trans-1,3-Dichloropropene

Concen: 2.142 ug/L m

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013317.D

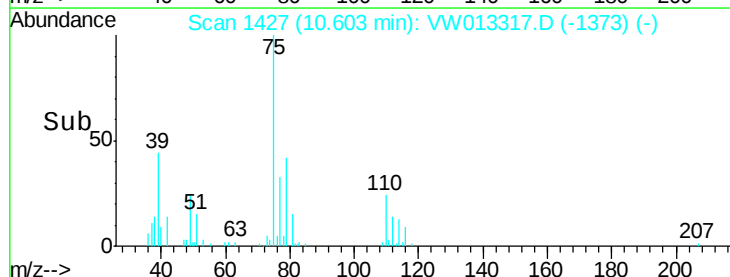
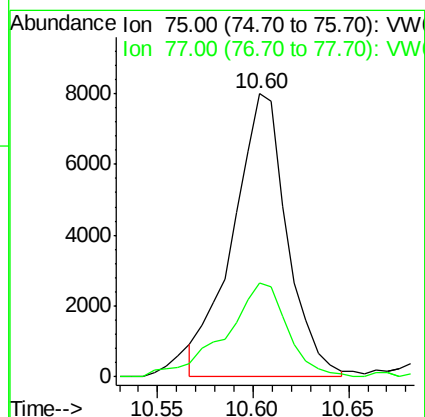
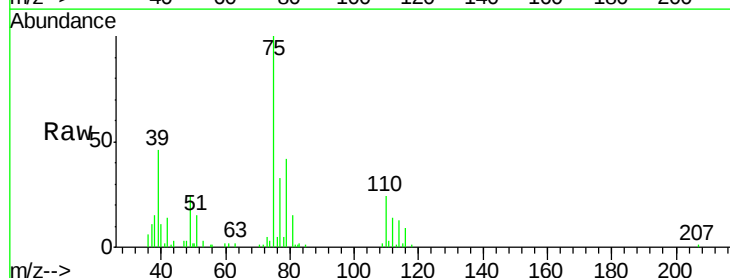
Acq: 27 Sep 2019 11:56

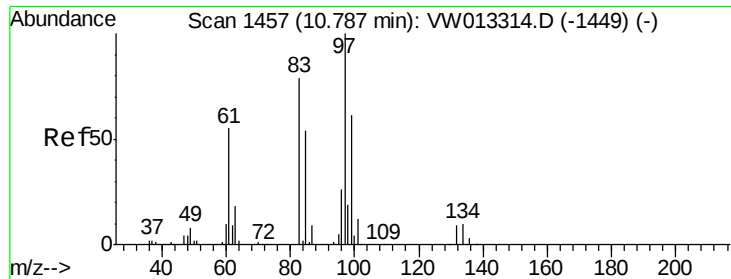
Tgt Ion: 75 Resp: 15861

Ion Ratio Lower Upper

75 100

77 33.1 20.5 38.1

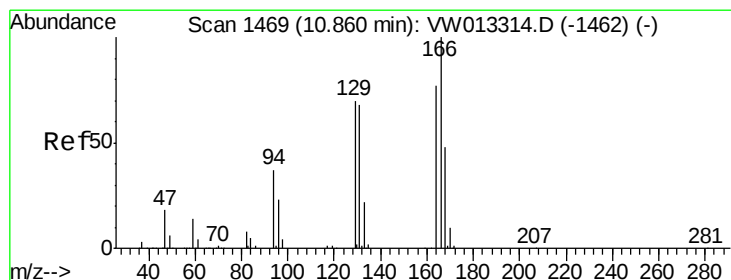
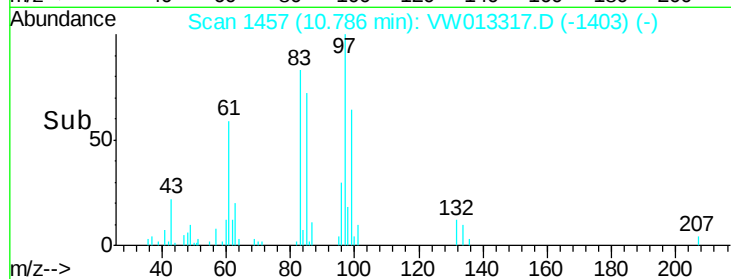
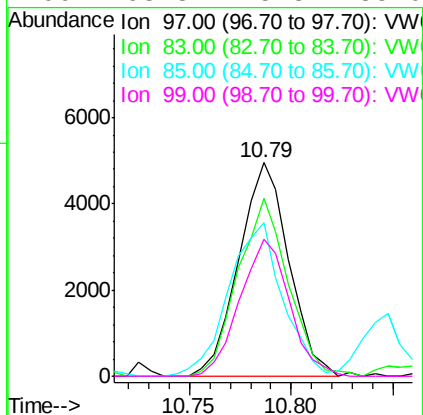
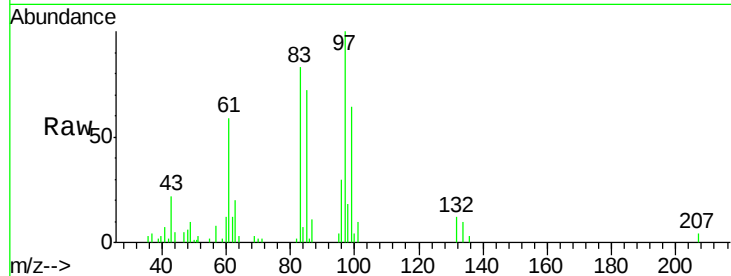




#46
 1,1,2-Trichloroethane
 Concen: 1.868 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

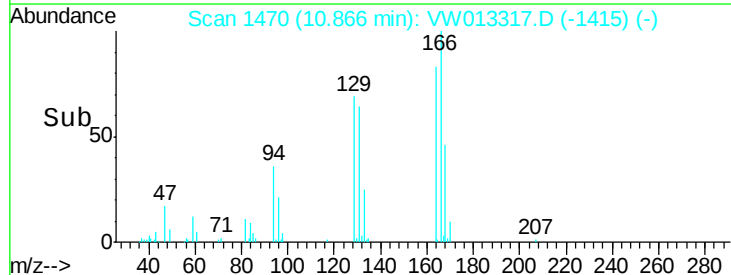
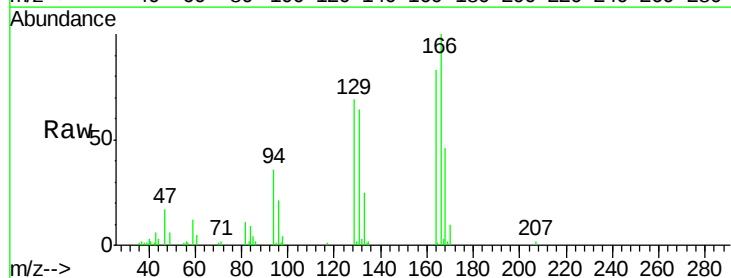
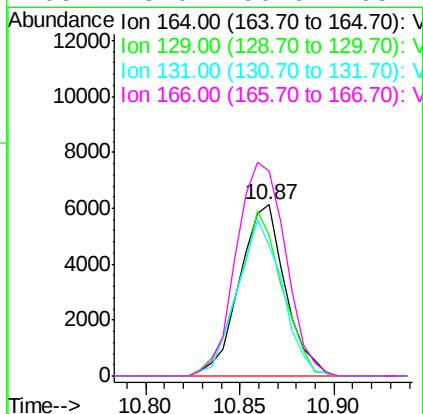
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

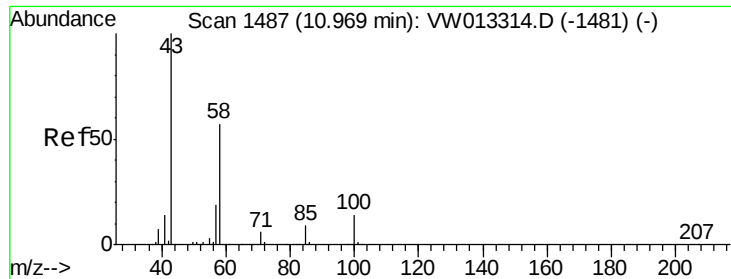
Tot Ion: 97 Resp: 8441
 Ion Ratio Lower Upper
 97 100
 83 83.2 59.4 110.2
 85 71.9 38.7 71.9#
 99 63.8 45.8 85.0



#47
 Tetrachloroethene
 Concen: 1.866 ug/L
 RT: 10.87 min Scan# 1470
 Delta R.T. 0.01 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

Tgt Ion: 164 Resp: 10339
 Ion Ratio Lower Upper
 164 100
 129 80.9 60.5 112.5
 131 75.2 60.6 112.6
 166 118.0 90.6 168.2

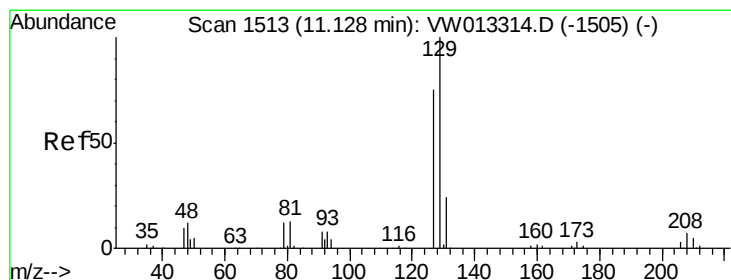
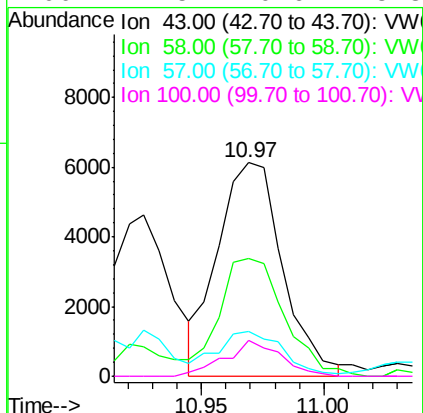
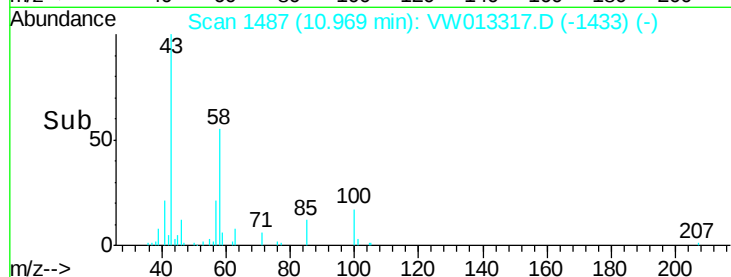
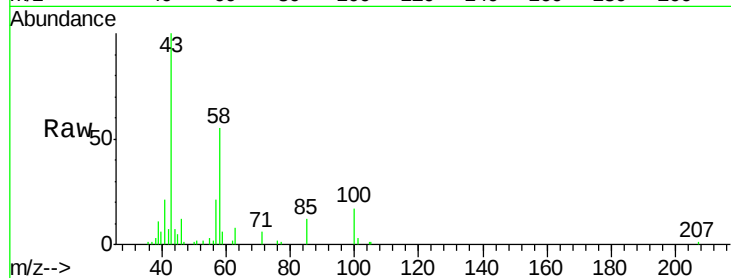




#49
2-Hexanone
Concen: 3.564 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

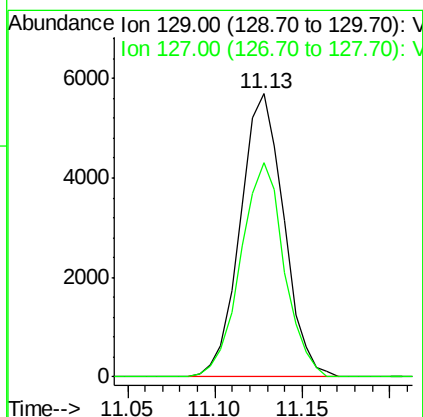
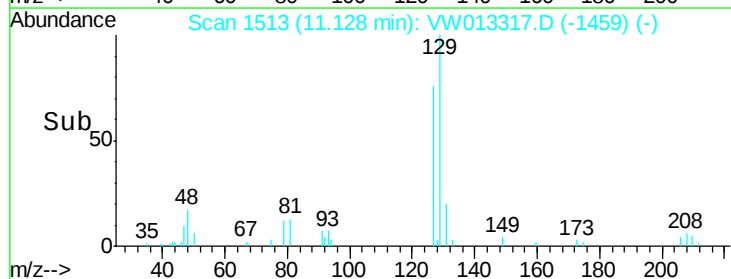
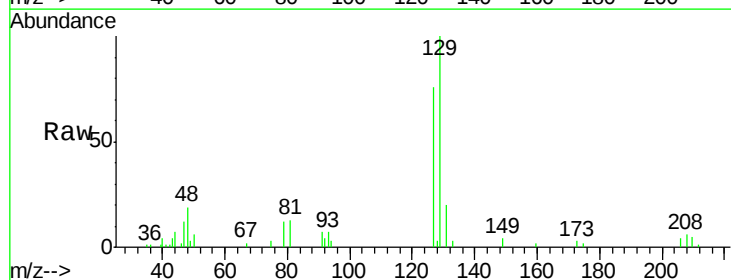
Instrument :
MSVOA_W
ClientSampleId :
MDL02

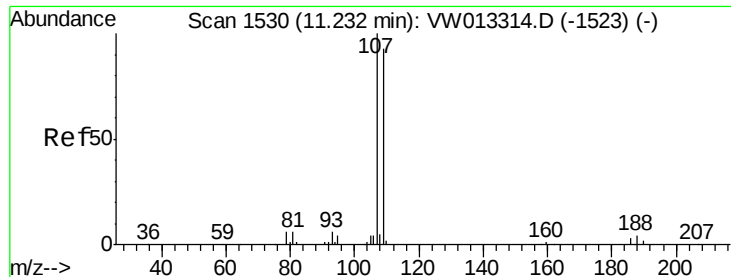
Tot Ion:	43	Resp:	11310
Ion	Ratio	Lower	Upper
43	100		
58	56.3	44.3	66.5
57	21.6	15.3	22.9
100	14.5	10.6	15.8



#50
Dibromochloromethane
Concen: 1.903 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013317.D
Acq: 27 Sep 2019 11:56

Tgt Ion:	129	Resp:	9860
Ion	Ratio	Lower	Upper
129	100		
127	75.5	56.1	104.1





#51

1,2-Dibromoethane

Concen: 1.940 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampleId :

MDL02

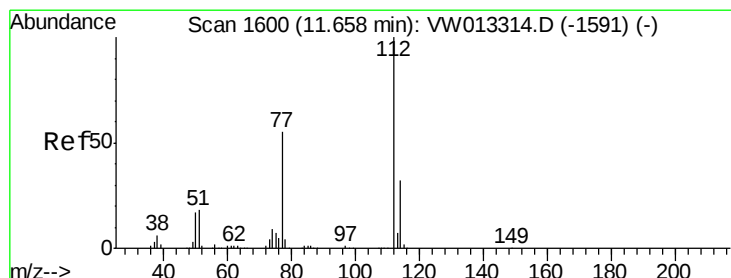
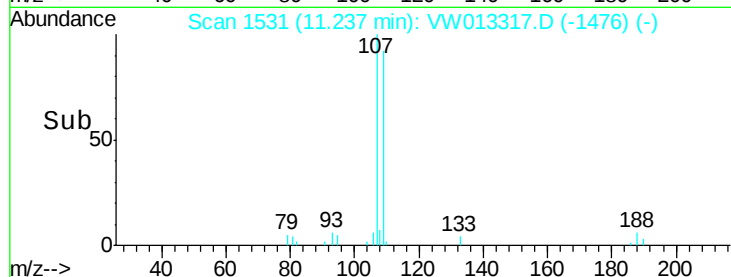
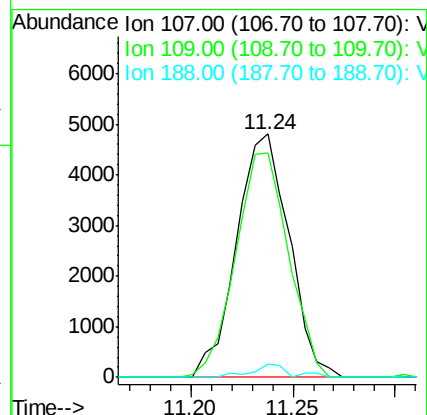
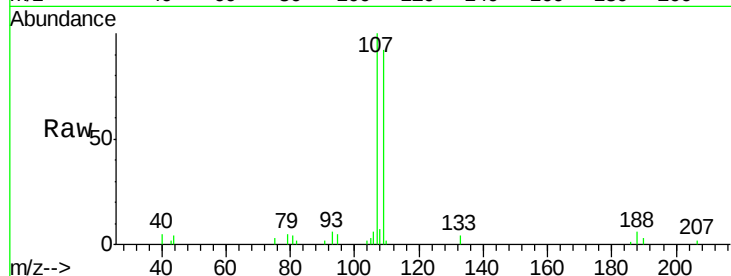
Tot Ion:107 Resp: 8611

Ion Ratio Lower Upper

107 100

109 92.2 65.5 121.6

188 5.6 3.0 4.6#



#52

Chlorobenzene

Concen: 1.974 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

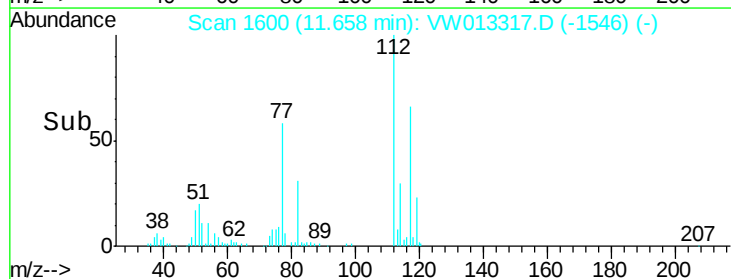
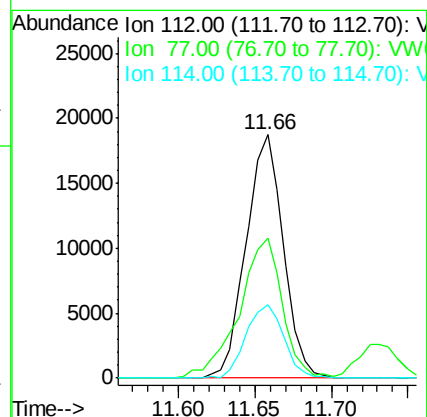
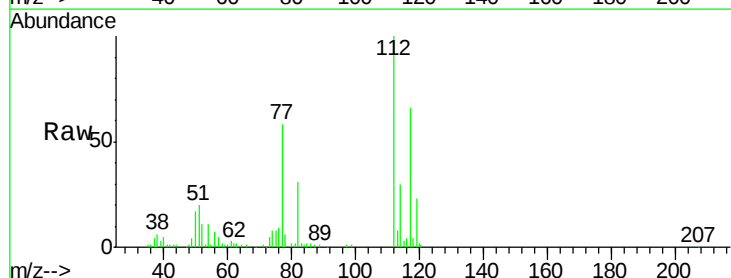
Tgt Ion:112 Resp: 31741

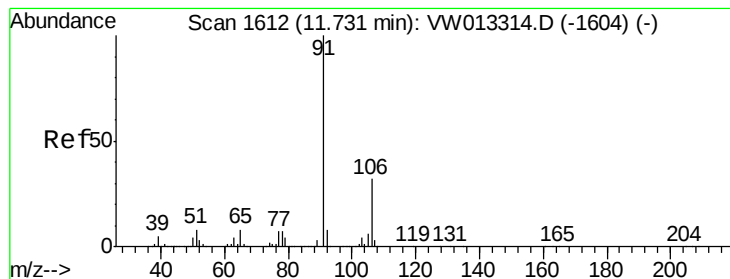
Ion Ratio Lower Upper

112 100

77 57.6 46.5 69.7

114 30.2 23.0 42.8





#53

Ethylbenzene

Concen: 1.901 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

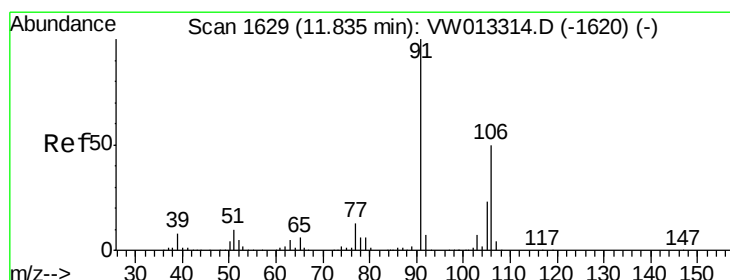
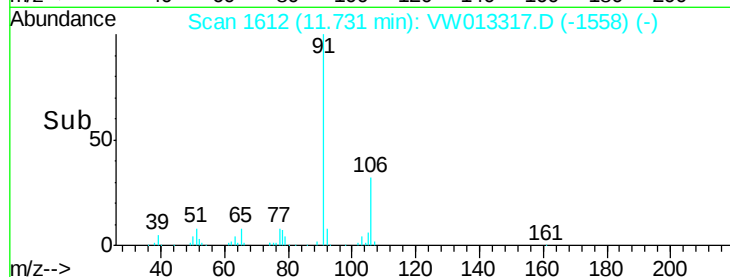
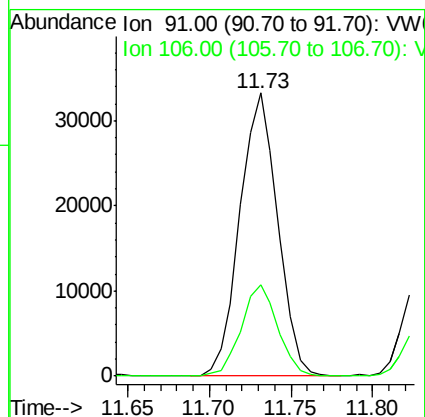
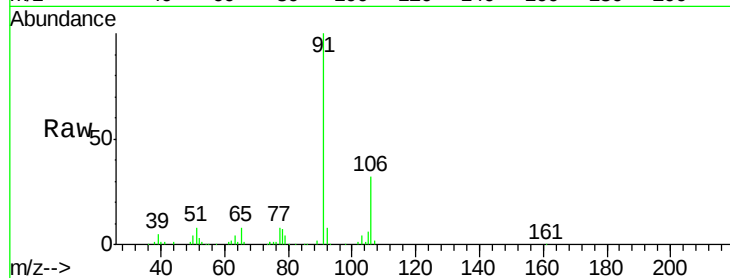
MDL02

Tot Ion: 91 Resp: 53782

Ion Ratio Lower Upper

91 100

106 32.3 20.8 38.6



#54

m,p-Xylene

Concen: 1.933 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW013317.D

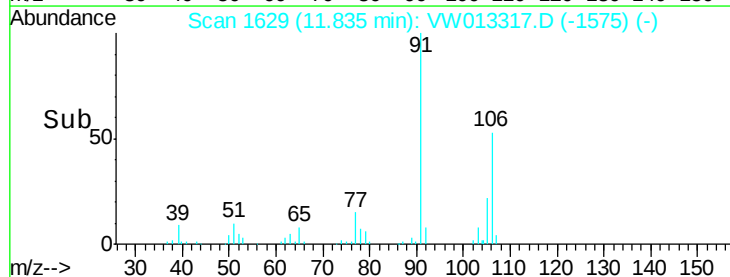
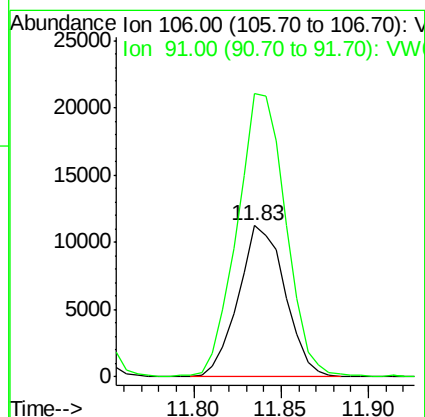
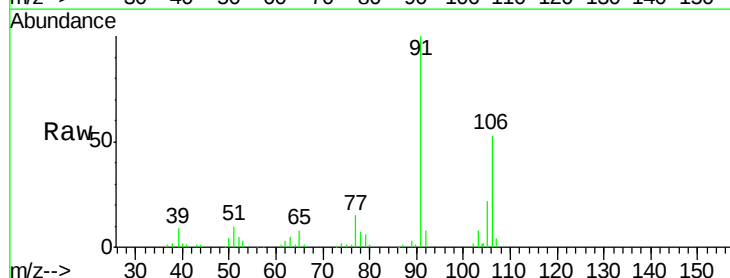
Acq: 27 Sep 2019 11:56

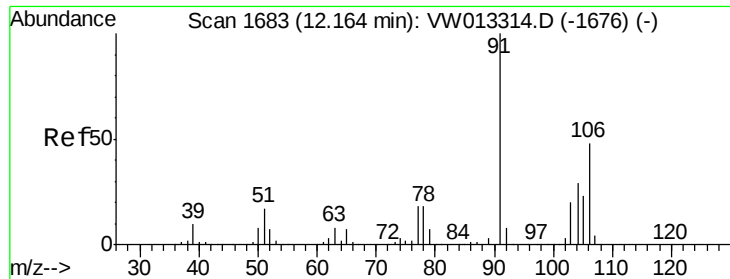
Tgt Ion: 106 Resp: 20991

Ion Ratio Lower Upper

106 100

91 187.2 138.3 256.9





#55

o-xylene

Concen: 1.807 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

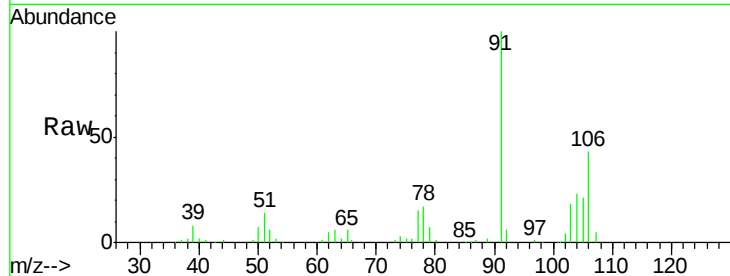
MDL02

Tot Ion:106 Resp: 18523

Ion Ratio Lower Upper

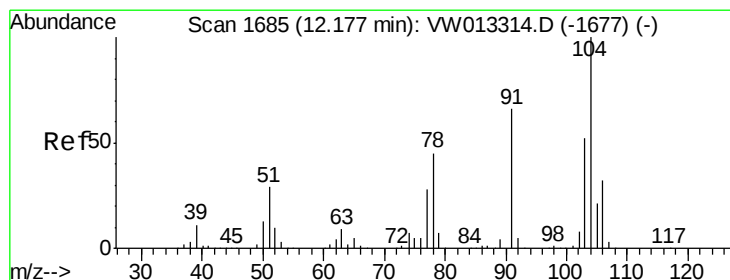
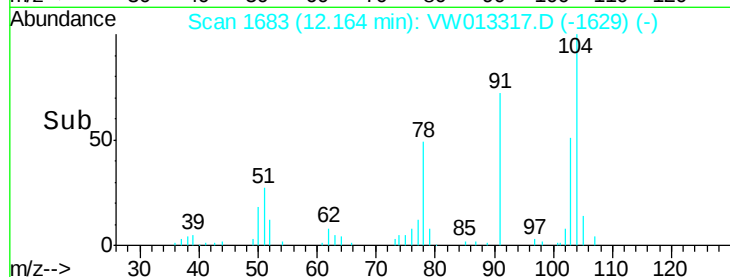
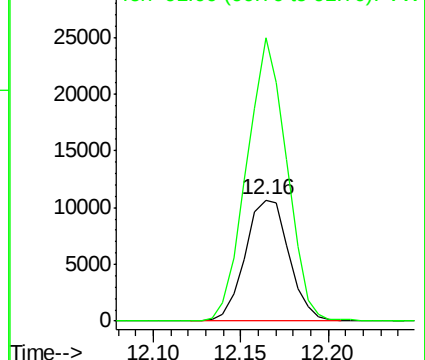
106 100

91 233.9 145.9 271.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 1.722 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW013317.D

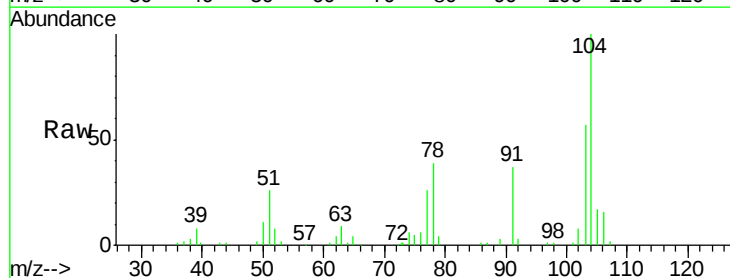
Acq: 27 Sep 2019 11:56

Tgt Ion:104 Resp: 30254

Ion Ratio Lower Upper

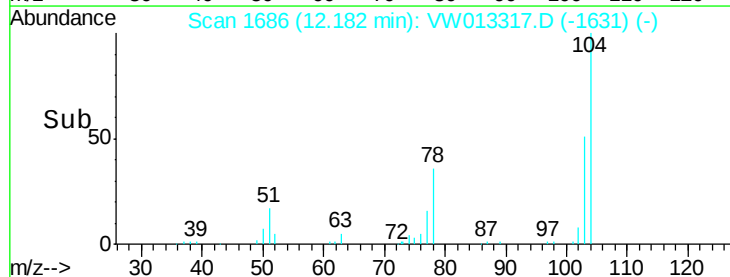
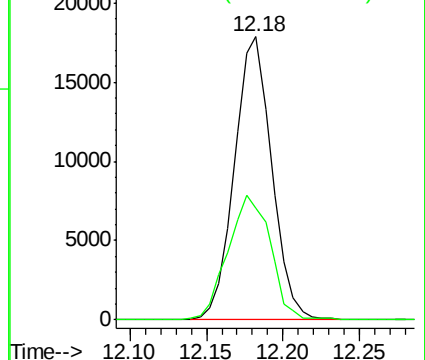
104 100

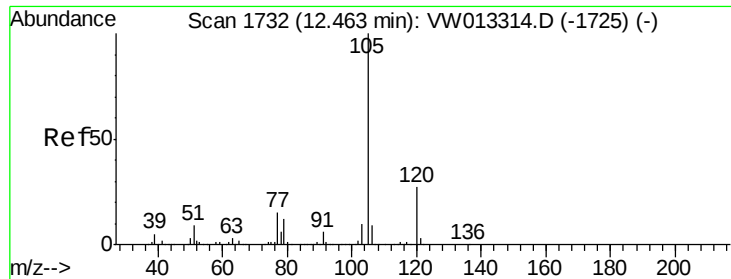
78 39.5 29.8 55.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 1.854 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampleId :

MDL02

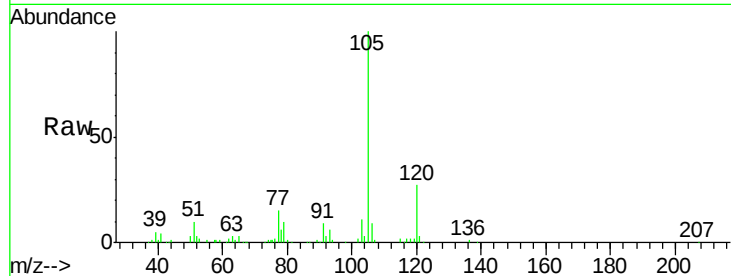
Tot Ion:105 Resp: 51371

Ion Ratio Lower Upper

105 100

120 25.7 21.4 32.2

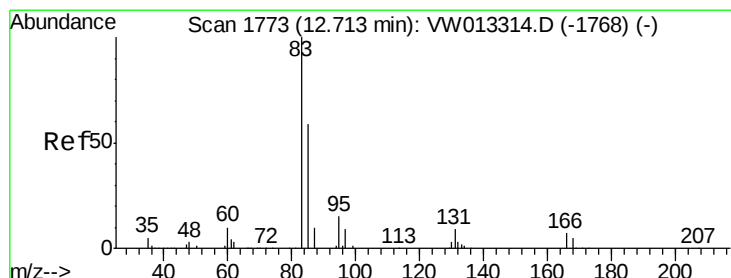
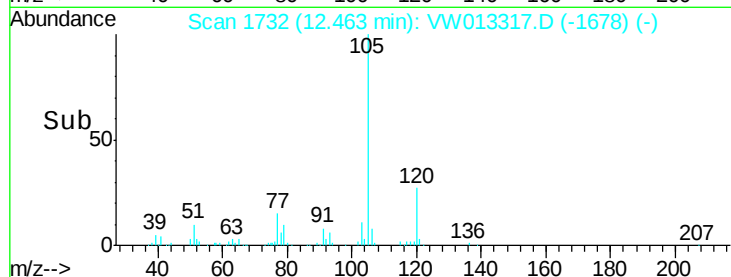
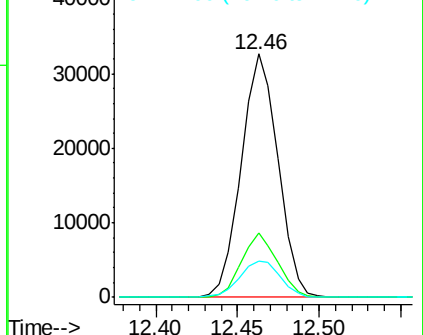
77 16.7 11.8 17.6



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: 1.804 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

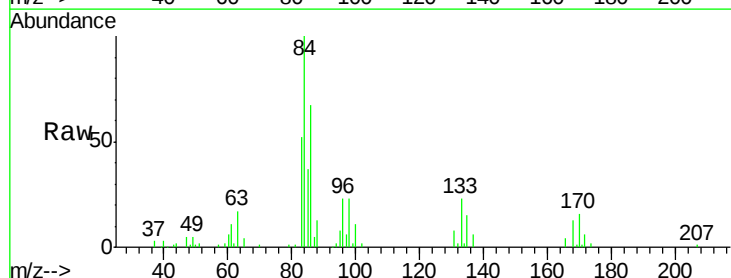
Tgt Ion: 83 Resp: 10039

Ion Ratio Lower Upper

83 100

85 70.5 45.2 84.0

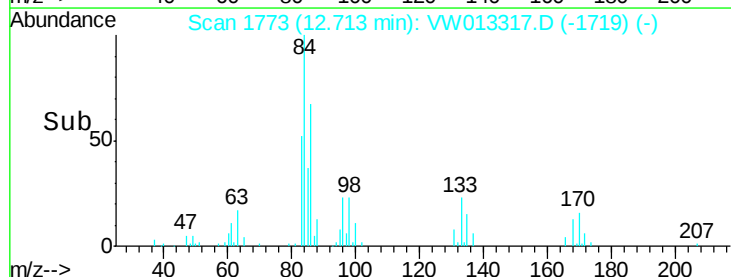
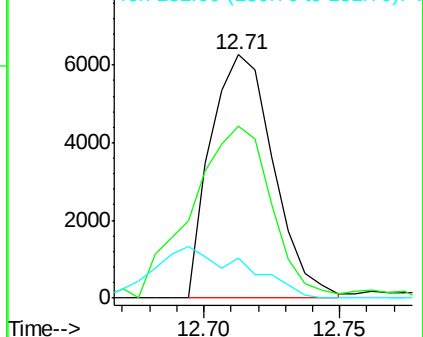
131 16.3 8.9 13.3#

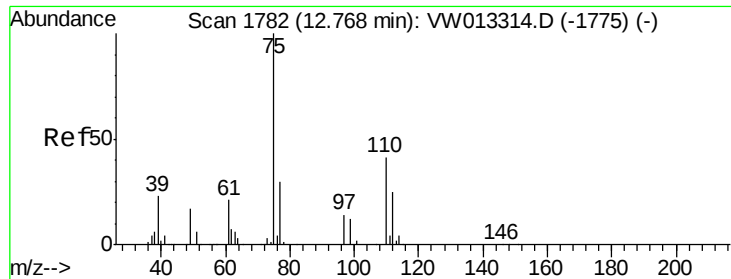


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

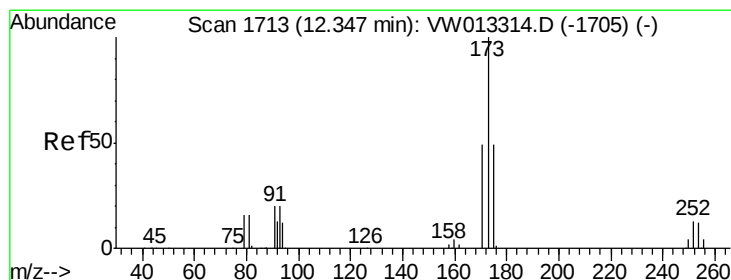
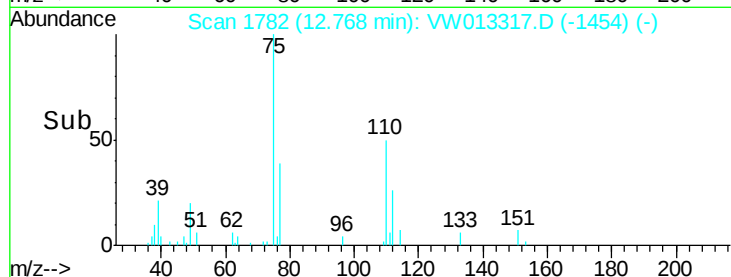
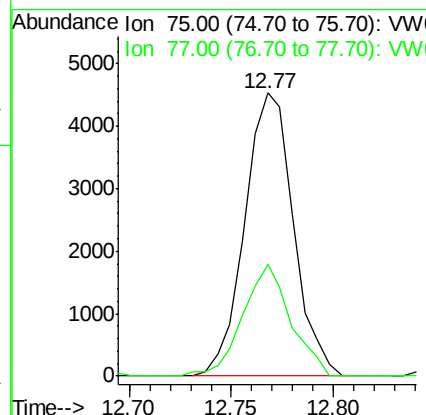
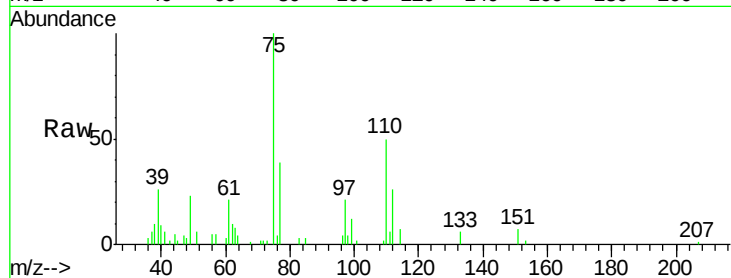




#59
 1,2,3-Trichloropropane
 Concen: 1.808 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

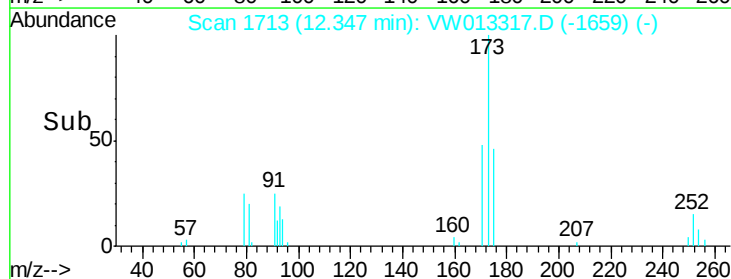
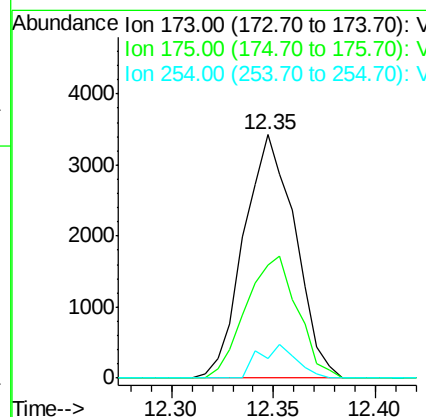
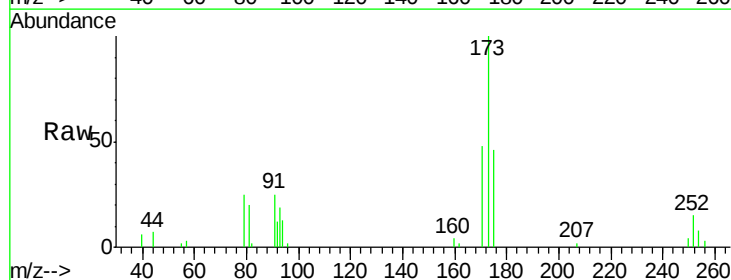
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

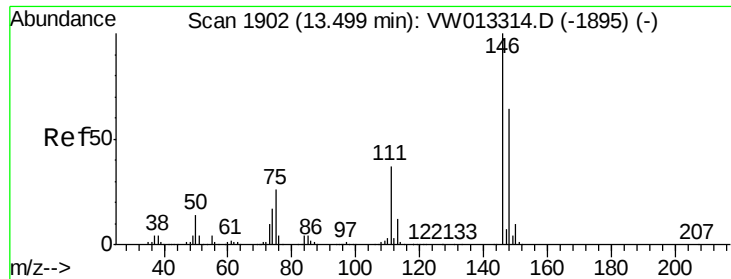
Tot Ion: 75 Resp: 7509
 Ion Ratio Lower Upper
 75 100
 77 38.7 25.8 38.8



#62
 Bromoform
 Concen: 1.857 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

Tgt Ion: 173 Resp: 5989
 Ion Ratio Lower Upper
 173 100
 175 50.5 39.3 58.9
 254 10.0 9.1 13.7

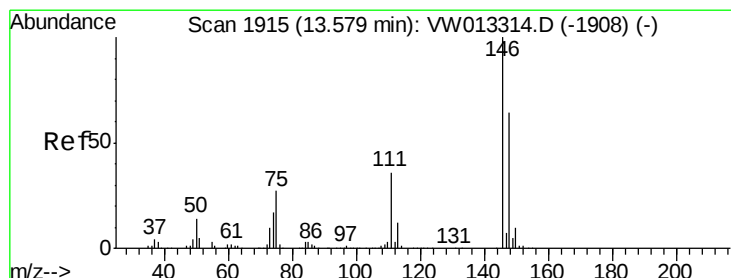
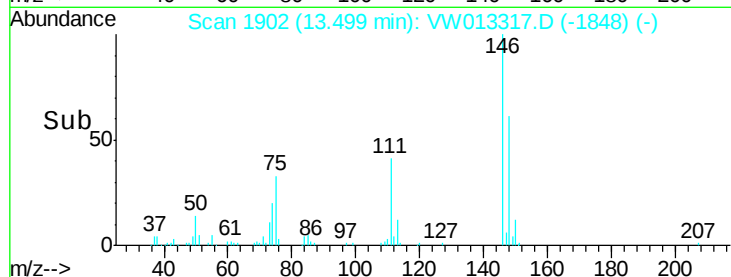
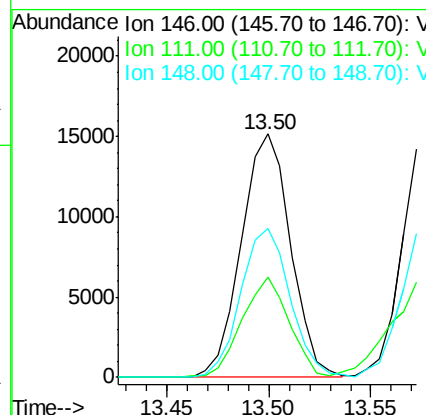
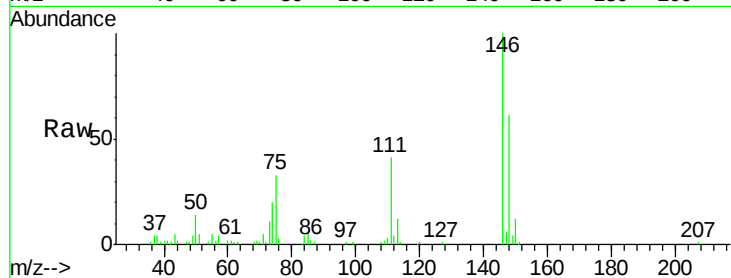




#63
 1,3-Dichlorobenzene
 Concen: 2.021 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

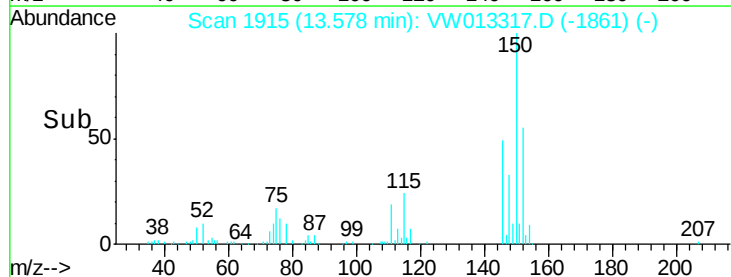
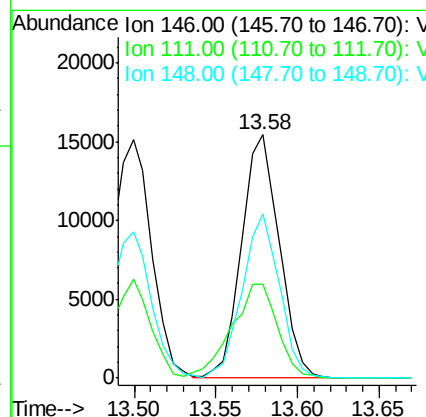
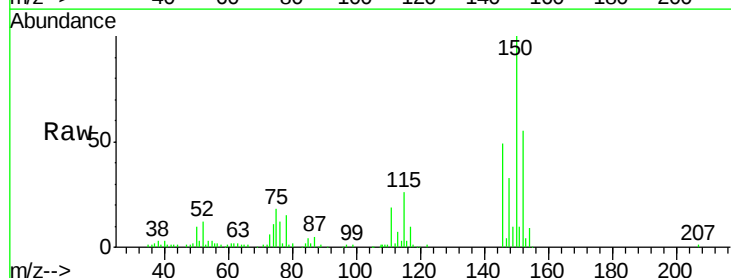
Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

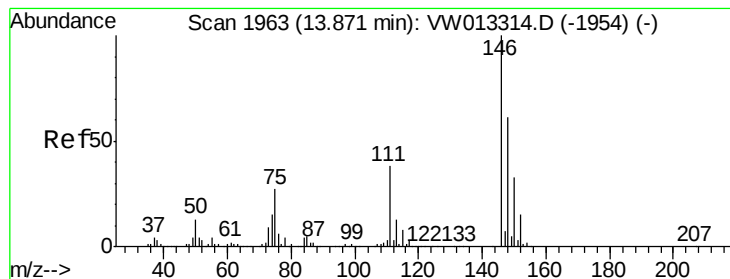
Tot Ion:146 Resp: 25355
 Ion Ratio Lower Upper
 146 100
 111 41.3 26.7 49.5
 148 61.2 45.0 83.6



#64
 1,4-Dichlorobenzene
 Concen: 1.965 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

Tgt Ion:146 Resp: 24908
 Ion Ratio Lower Upper
 146 100
 111 38.8 24.2 45.0
 148 67.7 45.1 83.7





#65

1,2-Dichlorobenzene

Concen: 1.928 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampleId :

MDL02

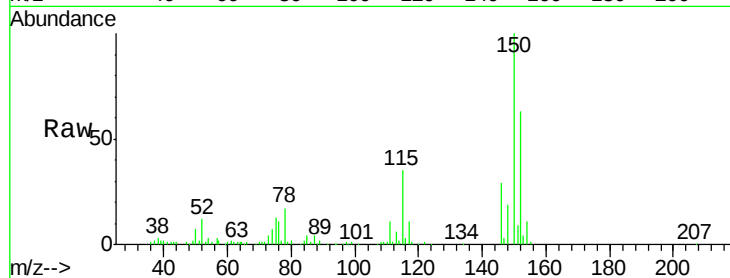
Tot Ion:146 Resp: 22006

Ion Ratio Lower Upper

146 100

111 38.1 30.8 46.2

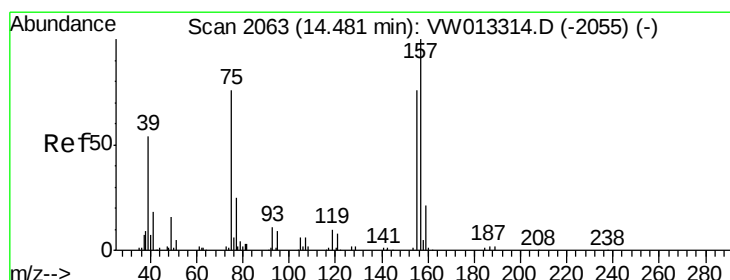
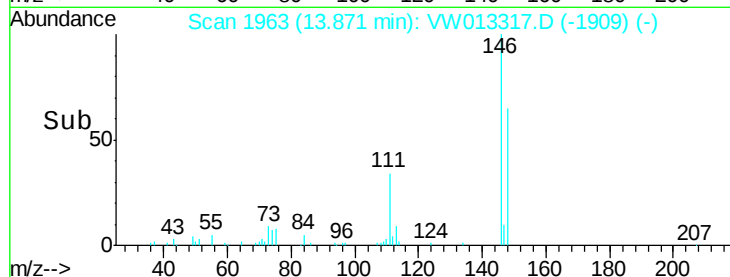
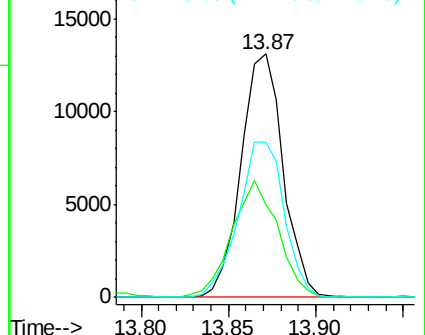
148 64.0 52.5 78.7



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



#66

1,2-Dibromo-3-chloropropane

Concen: 1.820 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

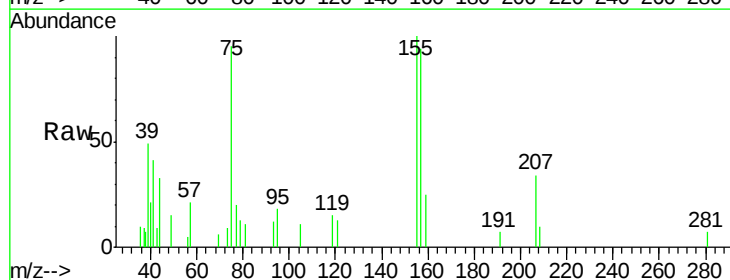
Tgt Ion: 75 Resp: 1636

Ion Ratio Lower Upper

75 100

157 98.5 97.8 146.8

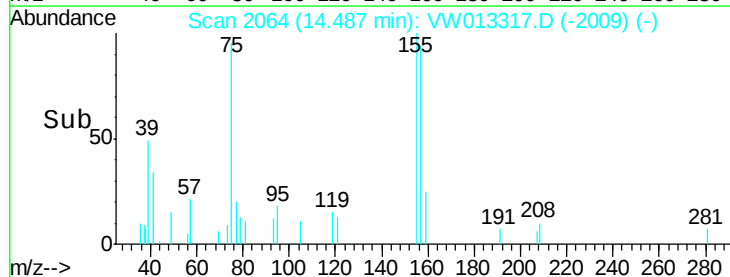
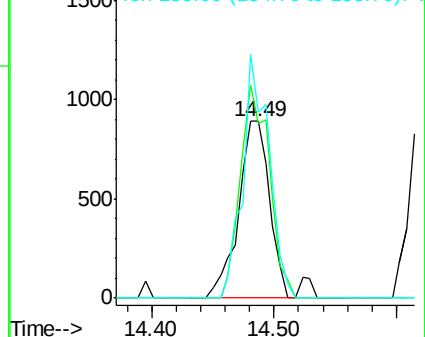
155 105.0 78.4 117.6

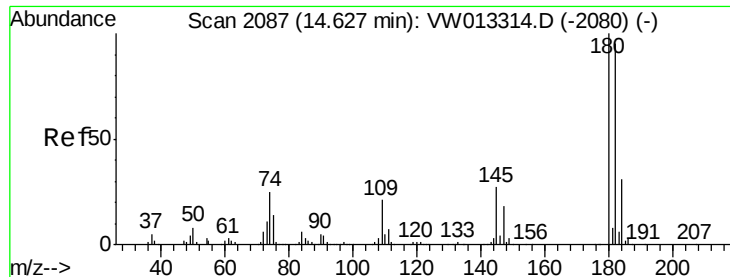


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

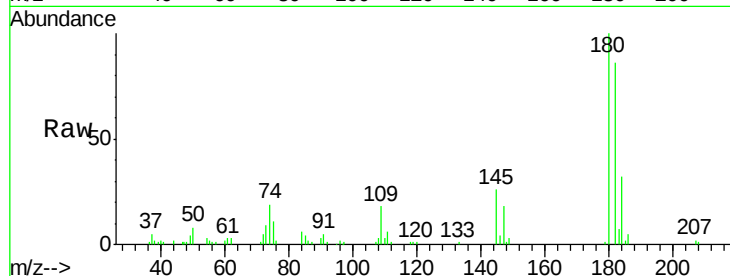




#67
 1,3,5-Trichlorobenzene
 Concen: 1.907 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.5	76.4	114.6
184	31.8	23.9	35.9
145	28.1	21.7	32.5

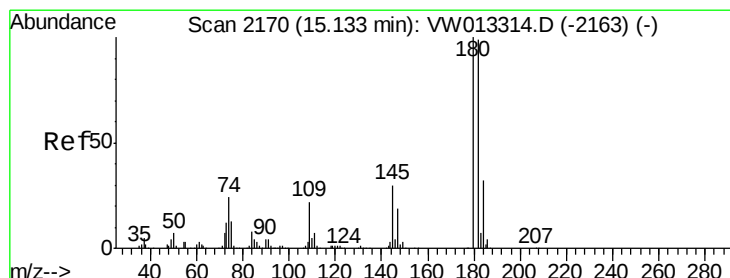
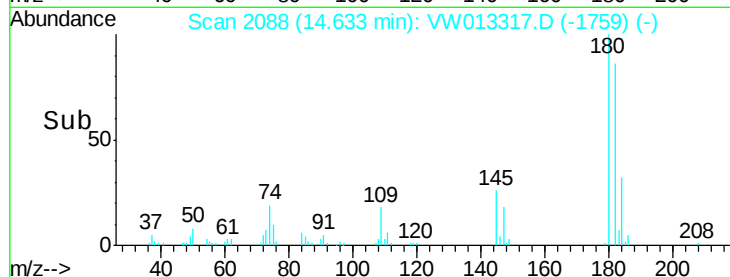
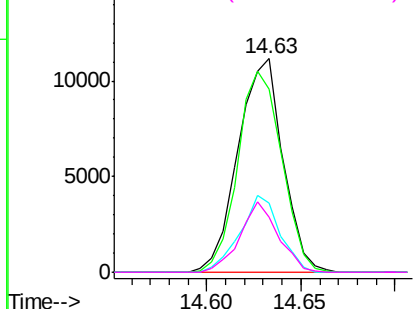


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

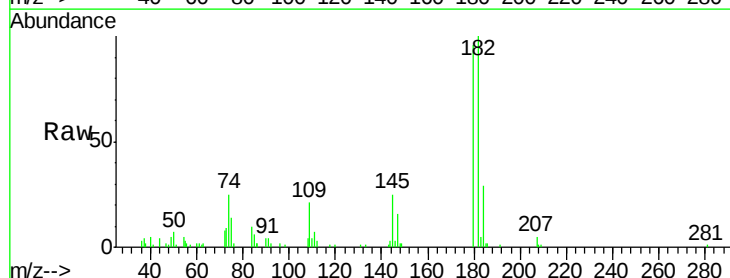
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.659 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013317.D
 Acq: 27 Sep 2019 11:56

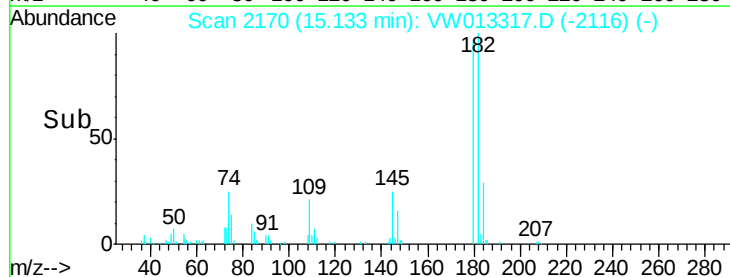
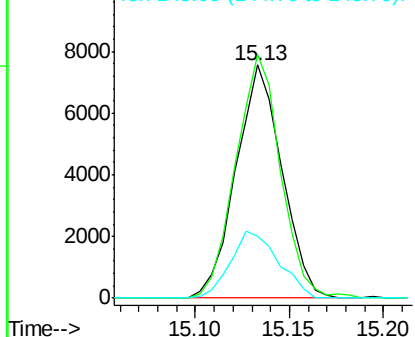
Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.1	75.9	113.9
145	29.8	23.0	34.4

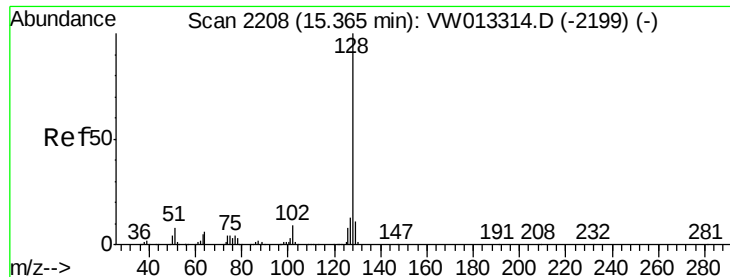


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.383 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

Instrument :

MSVOA_W

ClientSampled :

MDL02

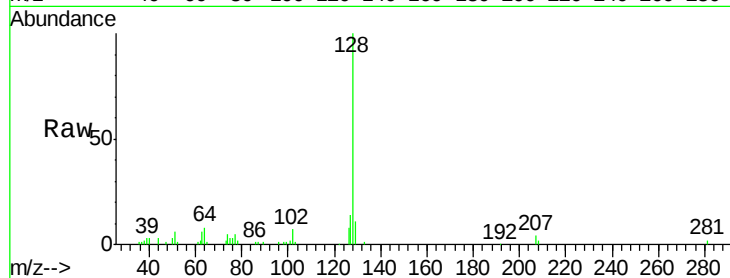
Tot Ion:128 Resp: 20378

Ion Ratio Lower Upper

128 100

129 11.9 8.7 13.1

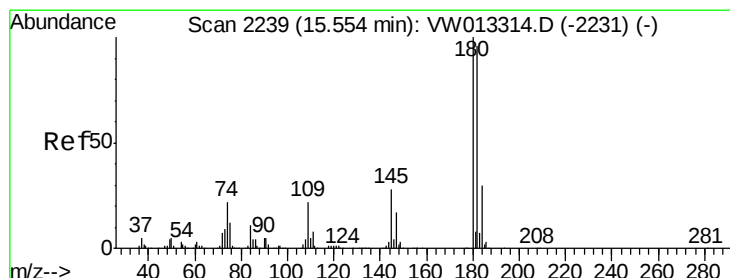
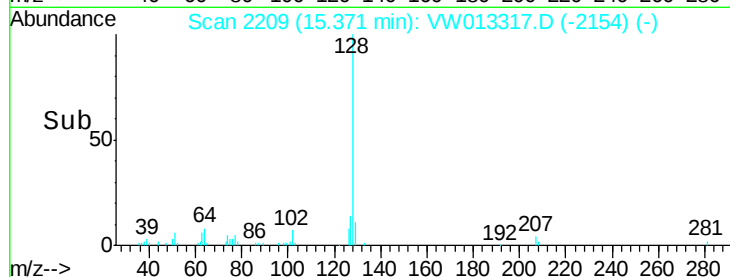
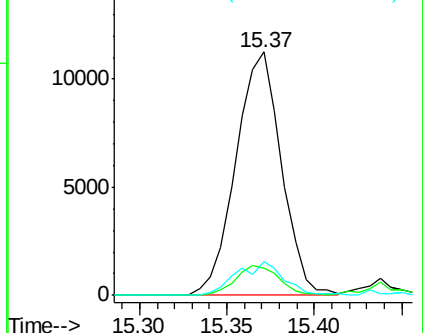
127 7.4 10.6 15.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.702 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013317.D

Acq: 27 Sep 2019 11:56

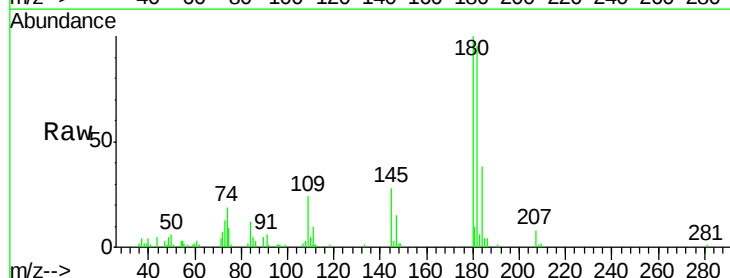
Tgt Ion:180 Resp: 11935

Ion Ratio Lower Upper

180 100

182 98.0 78.2 117.4

145 30.4 24.1 36.1



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

