

Data File : VW013320.D
Acq On : 27 Sep 2019 14:00
Operator : SY/VA
Sample : MDL05
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
MDL05

Quant Time: Sep 28 03:42:29 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	466984	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	415717	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	201734	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	134036	24.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.28%
7) Chloroethane-d5	2.88	69	105702	23.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.60%
10) 1,1-Dichloroethene-d2	4.01	63	207642	18.94	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.76%
20) 2-Butanone-d5	7.08	46	89498	46.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.00%
24) Chloroform-d	7.65	84	253893	24.11	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.44%
26) 1,2-Dichloroethane-d4	8.30	65	142371	25.03	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.12%
29) Benzene-d6	8.27	84	561497	24.88	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.52%
33) 1,2-Dichloropropane-d6	9.27	67	166045	24.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.72%
37) Toluene-d8	10.32	98	522397	24.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.32%
38) trans-1,3-Dichloropropene-	10.58	79	71619	23.70	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.80%
39) 2-Hexanone-d5	10.92	63	70429	47.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.70%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	136807	23.95	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.80%
61) 1,2-Dichlorobenzene-d4	13.85	152	182036	25.26	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.04%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	3532	1.209 ug/L	92
3) Chloromethane	2.20	50	8098	2.068 ug/L	95
5) Vinyl chloride	2.35	62	11432	2.111 ug/L #	62
6) Bromomethane	2.77	94	7043	2.045 ug/L	97
8) Chloroethane	2.92	64	6663	2.028 ug/L	86
9) Trichlorofluoromethane	3.24	101	5915	1.762 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	9848	1.857 ug/L #	83
12) 1,1-Dichloroethene	4.03	96	13171	2.447 ug/L #	1
13) Acetone	4.13	43	10769	6.723 ug/L	64
14) Carbon disulfide	4.38	76	30359	1.987 ug/L	96
15) Methyl Acetate	4.67	43	4054	1.312 ug/L #	73
16) Methylene chloride	4.91	84	21524	3.085 ug/L	96
17) Methyl tert-butyl Ether	5.43	73	20101	2.159 ug/L #	71
18) trans-1,2-Dichloroethene	5.42	96	12465	2.165 ug/L	89
19) 1,1-Dichloroethane	6.21	63	21279	2.108 ug/L	93
21) 2-Butanone	7.18	43	10152	4.400 ug/L #	73
22) cis-1,2-Dichloroethene	7.17	96	13197	2.104 ug/L	94

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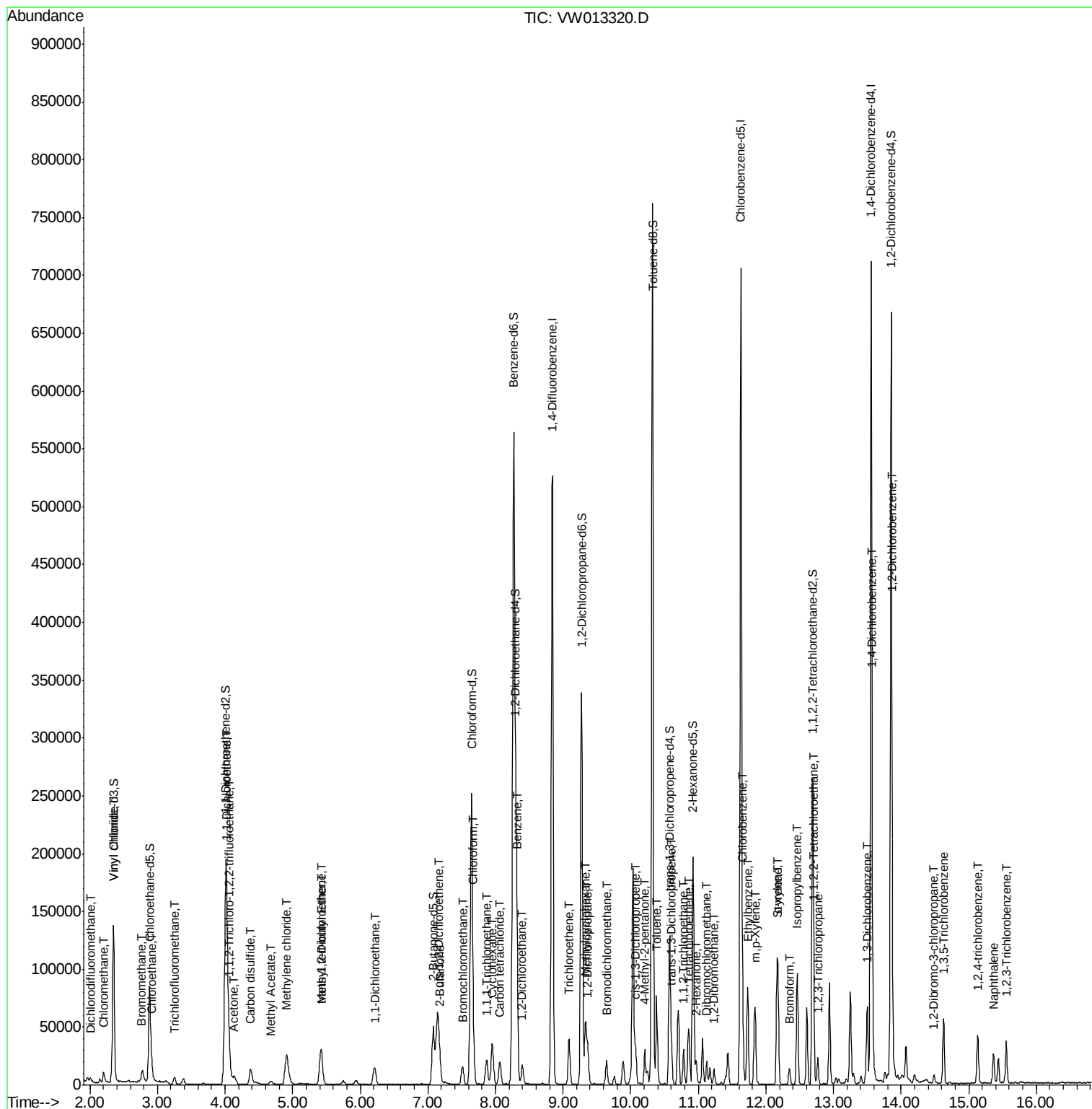
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	6181	2.190	ug/L	91
25) Chloroform	7.67	83	22859	2.304	ug/L	86
27) 1,2-Dichloroethane	8.40	62	15027	2.313	ug/L	95
30) Cyclohexane	7.96	56	19892	1.992	ug/L #	92
31) 1,1,1-Trichloroethane	7.87	97	17560	2.201	ug/L	99
32) Carbon tetrachloride	8.06	117	15738	2.069	ug/L	100
34) Benzene	8.32	78	50984	2.188	ug/L	100
35) Trichloroethene	9.09	95	13136	2.145	ug/L	97
36) Methylcyclohexane	9.34	83	21735	1.993	ug/L	100
40) 1,2-Dichloropropane	9.37	63	12262	2.139	ug/L #	95
41) Bromodichloromethane	9.64	83	15045	2.139	ug/L #	97
42) cis-1,3-Dichloropropene	10.07	75	20011	2.185	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	21036	4.792	ug/L	95
44) Toluene	10.38	91	56990	2.246	ug/L	96
45) trans-1,3-Dichloropropene	10.60	75	18492	2.512	ug/L	94
46) 1,1,2-Trichloroethane	10.79	97	9969	2.219	ug/L	92
47) Tetrachloroethene	10.86	164	11841	2.149	ug/L	95
49) 2-Hexanone	10.97	43	12644	4.007	ug/L	99
50) Dibromochloromethane	11.13	129	11079	2.150	ug/L	93
51) 1,2-Dibromoethane	11.24	107	9201	2.085	ug/L #	93
52) Chlorobenzene	11.66	112	35329	2.210	ug/L	98
53) Ethylbenzene	11.73	91	59291	2.108	ug/L	100
54) m,p-Xylene	11.84	106	22553	2.088	ug/L	96
55) o-xylene	12.17	106	20928	2.053	ug/L	90
56) Styrene	12.18	104	34708	1.986	ug/L	90
57) Isopropylbenzene	12.46	105	56980	2.068	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.71	83	11947	2.159	ug/L #	92
59) 1,2,3-Trichloropropane	12.77	75	8835	2.139	ug/L	99
62) Bromoform	12.35	173	6442	2.019	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	28080	2.262	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	27590	2.200	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	25532	2.261	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	1767	1.986	ug/L #	86
67) 1,3,5-Trichlorobenzene	14.63	180	19751	2.066	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	14360	1.882	ug/L	98
69) Naphthalene	15.36	128	22978	1.576	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	12781	1.842	ug/L	97

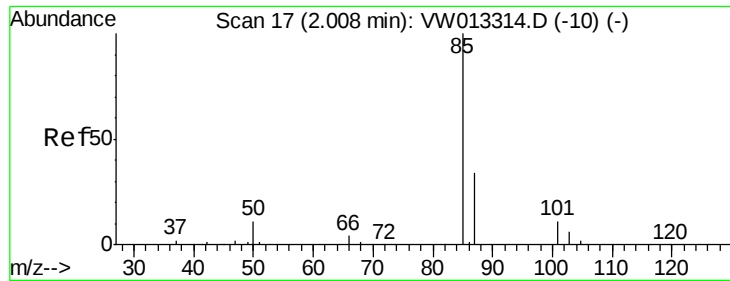
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.209 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

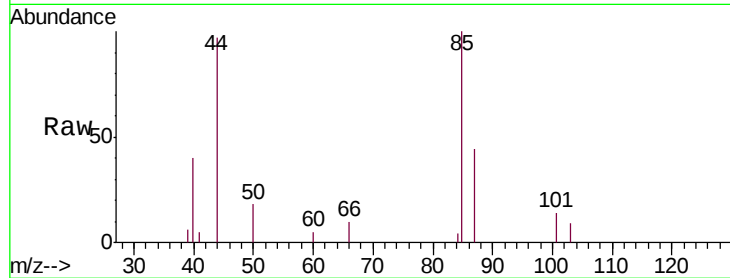
MDL05

Tgt Ion: 85 Resp: 3532

Ion Ratio Lower Upper

85 100

87 35.0 21.3 39.6



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW

2.01

1500

1000

500

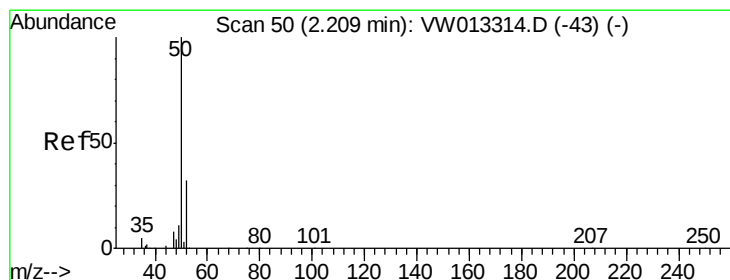
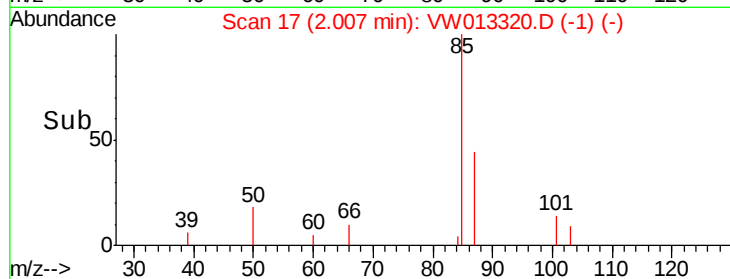
0

1.95

2.00

2.05

Time-->



#3

Chloromethane

Concen: 2.068 ug/L

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013320.D

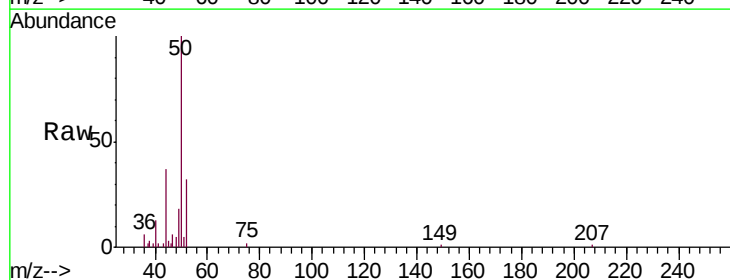
Acq: 27 Sep 2019 14:00

Tgt Ion: 50 Resp: 8098

Ion Ratio Lower Upper

50 100

52 32.0 24.4 45.4



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW

2.20

5000

4000

3000

2000

1000

0

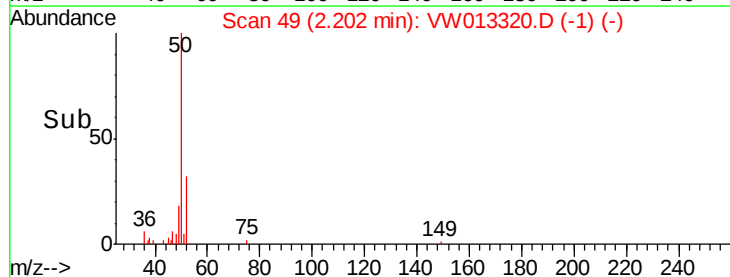
2.15

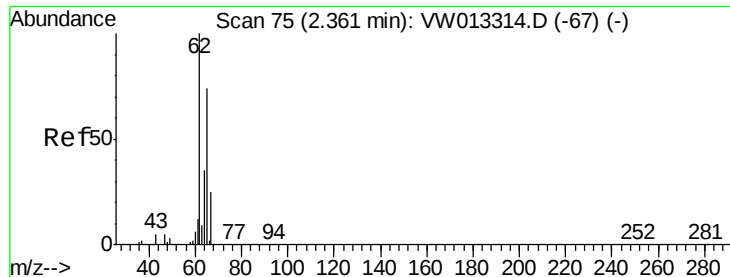
2.20

2.25

2.30

Time-->





#5

Vinyl chloride

Concen: 2.111 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampled :

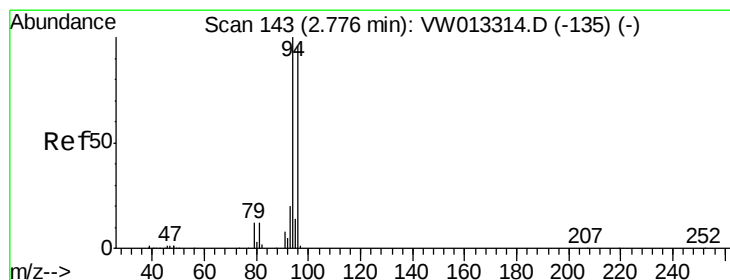
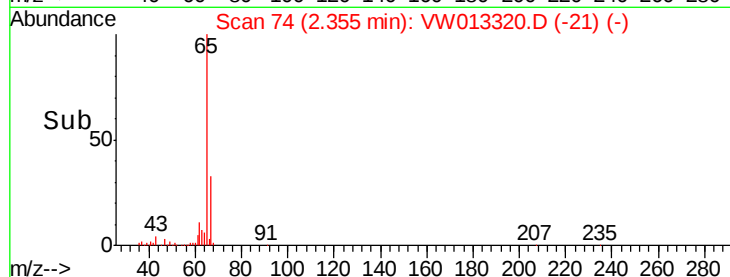
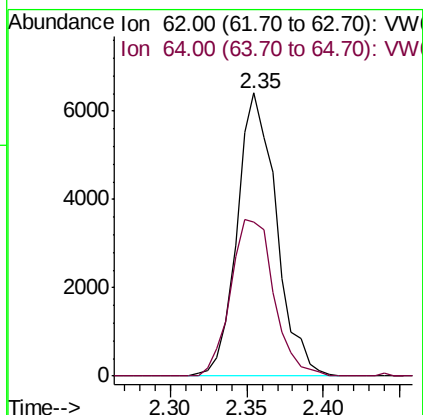
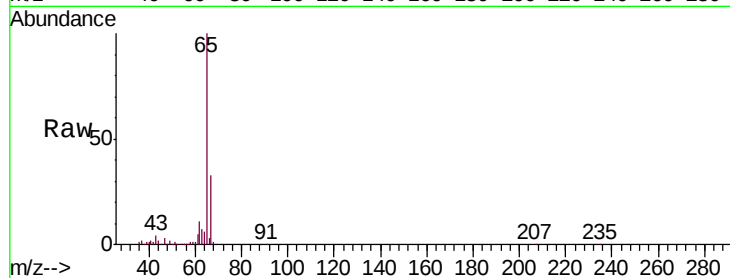
MDL05

Tgt Ion: 62 Resp: 11432

Ion Ratio Lower Upper

62 100

64 54.6 23.2 43.0#



#6

Bromomethane

Concen: 2.045 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW013320.D

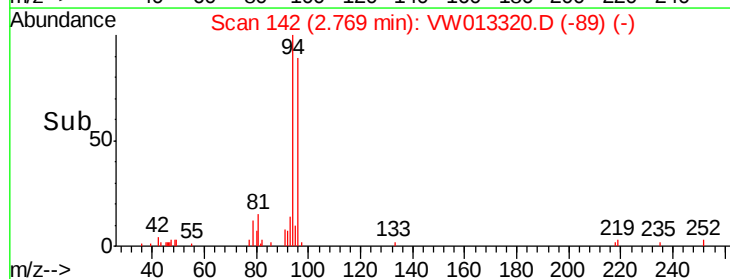
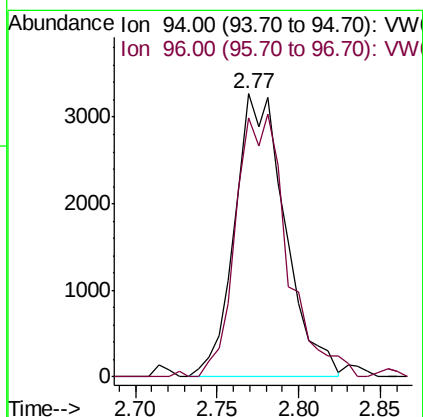
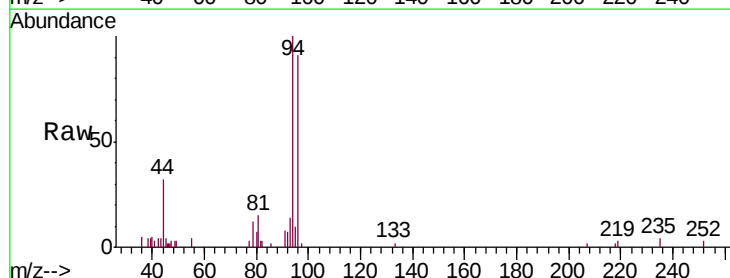
Acq: 27 Sep 2019 14:00

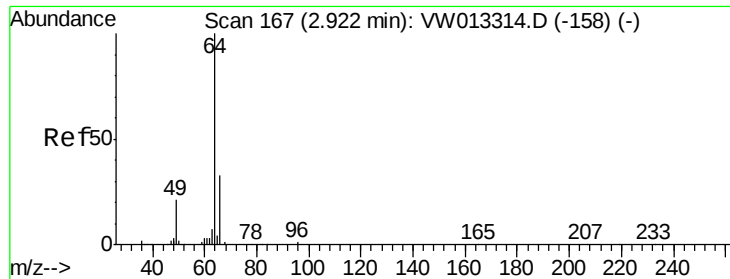
Tgt Ion: 94 Resp: 7043

Ion Ratio Lower Upper

94 100

96 93.9 9.7 184.3





#8

Chloroethane

Concen: 2.028 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

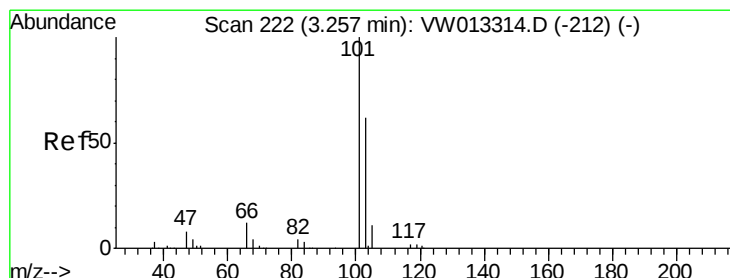
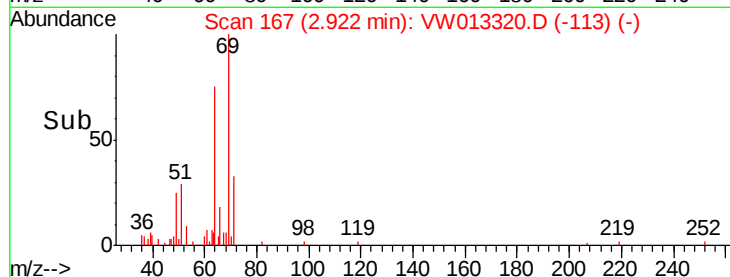
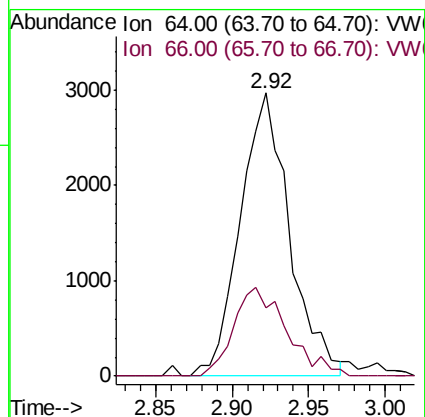
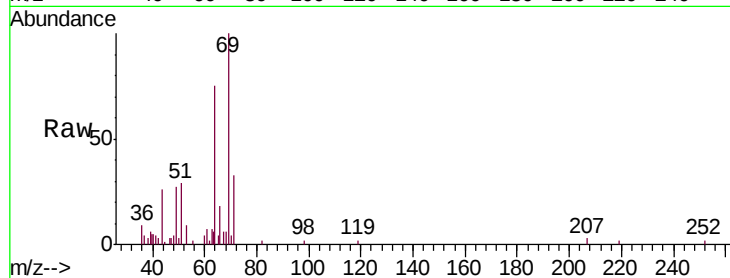
MDL05

Tgt Ion: 64 Resp: 6663

Ion Ratio Lower Upper

64 100

66 24.3 22.7 42.1



#9

Trichlorofluoromethane

Concen: 1.762 ug/L

RT: 3.24 min Scan# 220

Delta R.T. -0.01 min

Lab File: VW013320.D

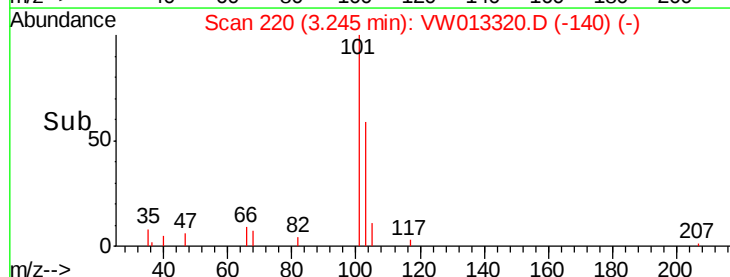
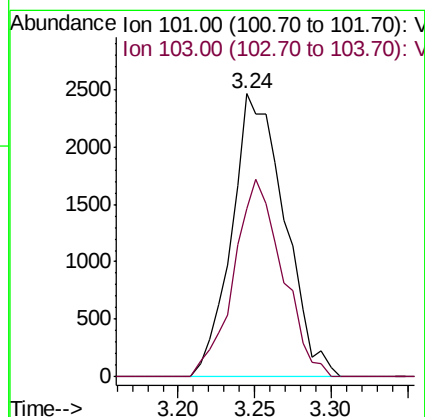
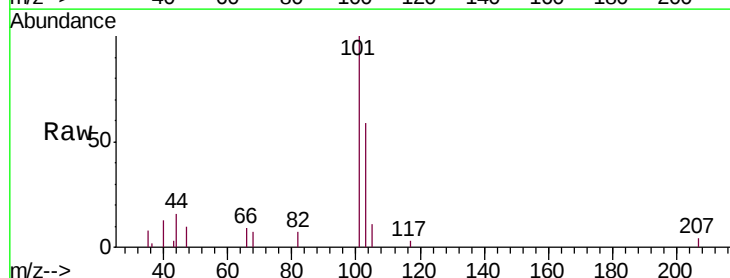
Acq: 27 Sep 2019 14:00

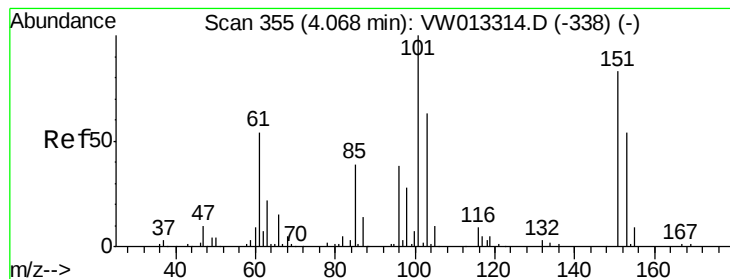
Tgt Ion: 101 Resp: 5915

Ion Ratio Lower Upper

101 100

103 64.3 45.2 84.0





#11

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

Concen: 1.857 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

MDL05

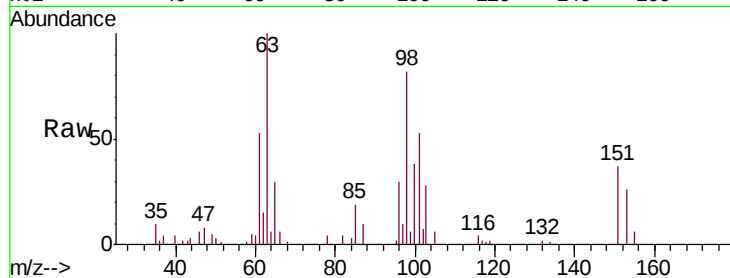
Tgt Ion:101 Resp: 9848

Ion Ratio Lower Upper

101 100

85 38.2 31.8 47.8

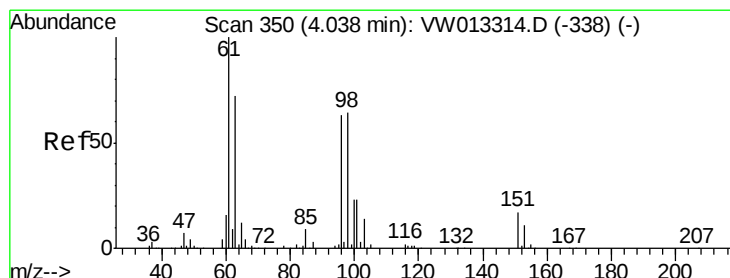
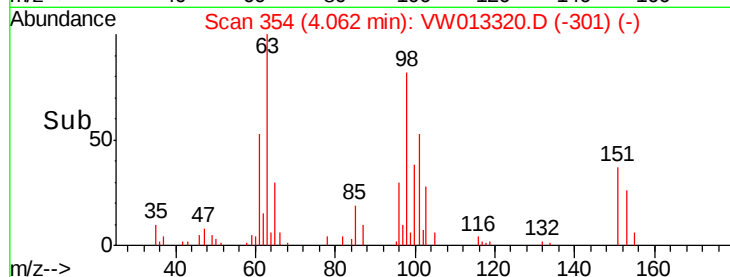
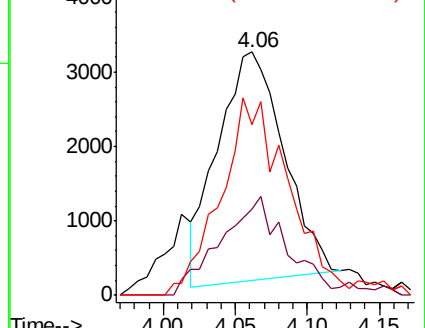
151 60.3 65.4 98.0#



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: 2.447 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

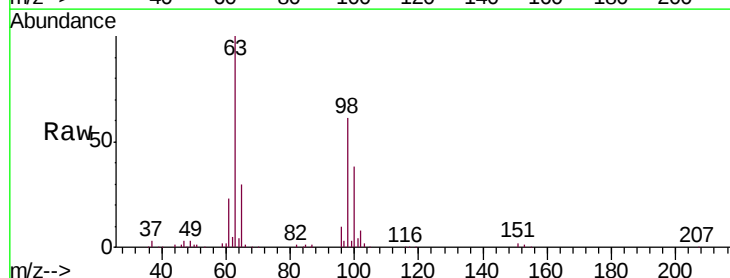
Tgt Ion: 96 Resp: 13171

Ion Ratio Lower Upper

96 100

61 241.6 115.9 215.3#

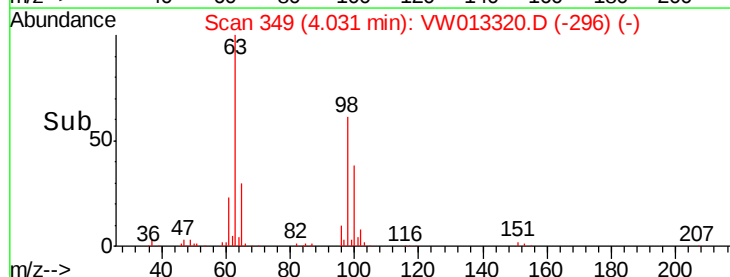
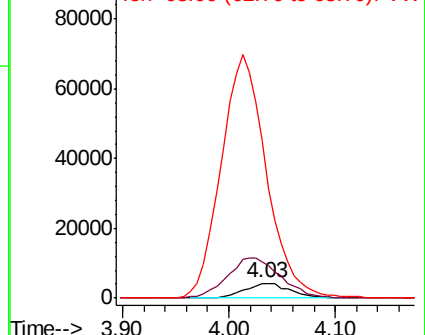
63 1050.4 88.9 165.1#

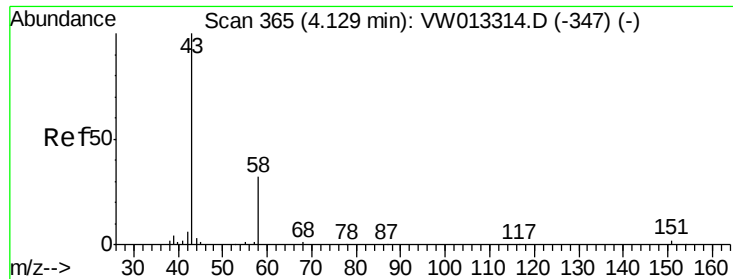


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 6.723 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

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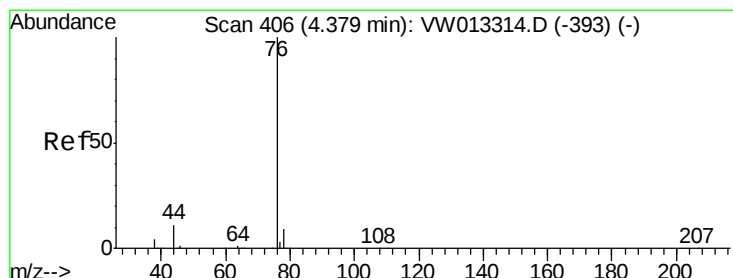
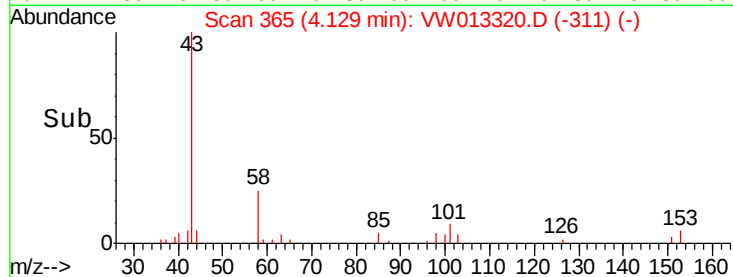
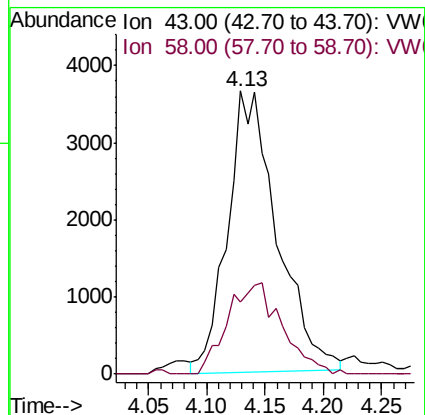
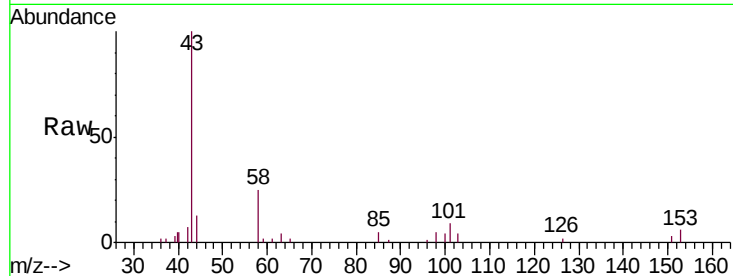
MDL05

Tgt Ion: 43 Resp: 10769

Ion Ratio Lower Upper

43 100

58 11.8 0.0 63.2



#14

Carbon disulfide

Concen: 1.987 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW013320.D

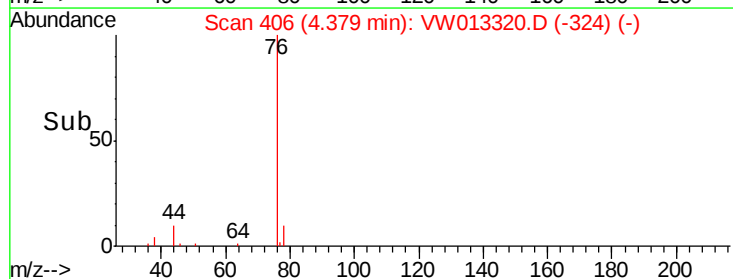
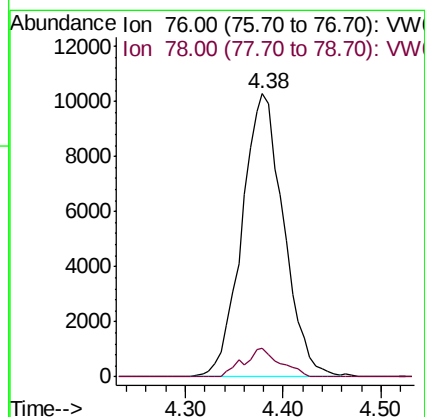
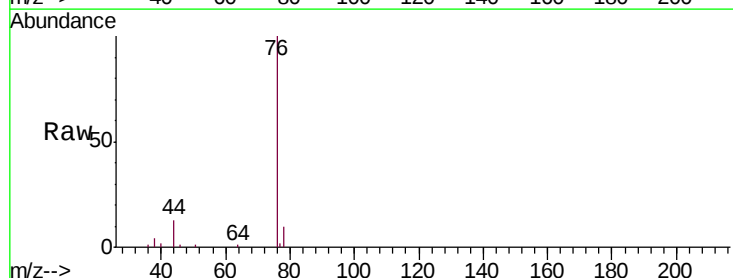
Acq: 27 Sep 2019 14:00

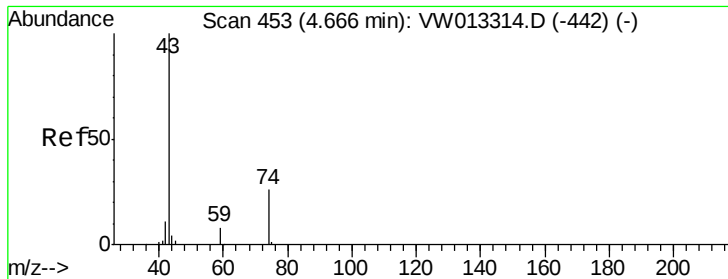
Tgt Ion: 76 Resp: 30359

Ion Ratio Lower Upper

76 100

78 10.3 7.2 10.8

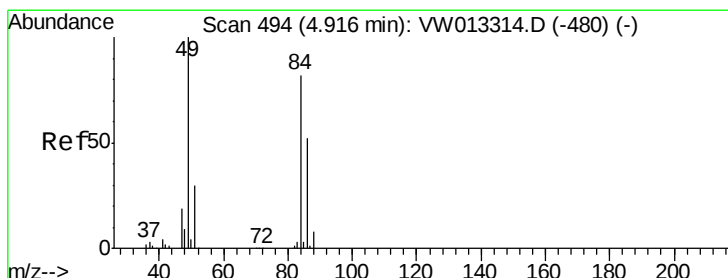
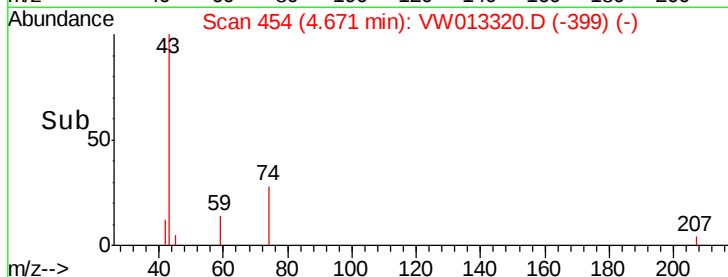
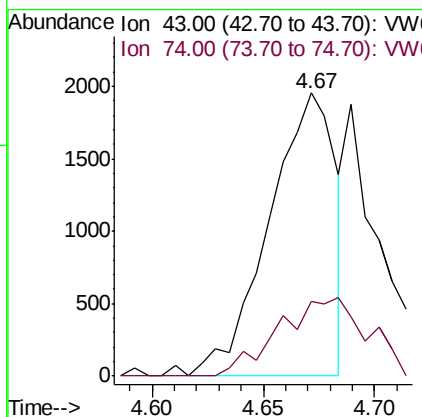
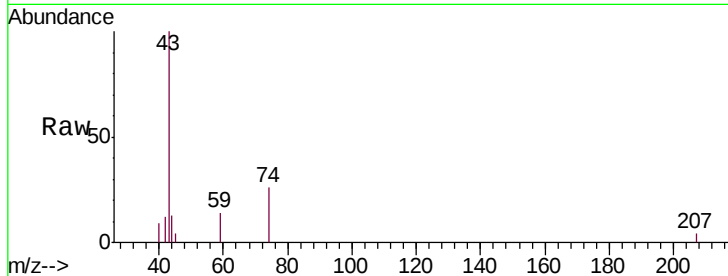




#15
Methyl Acetate
Concen: 1.312 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

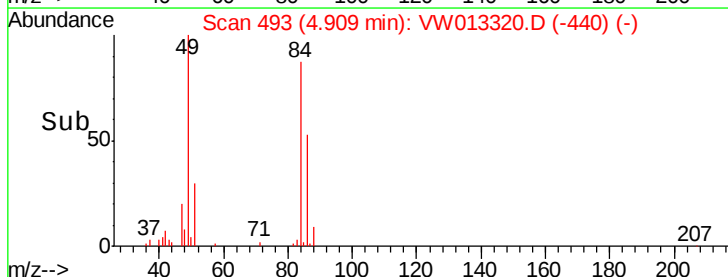
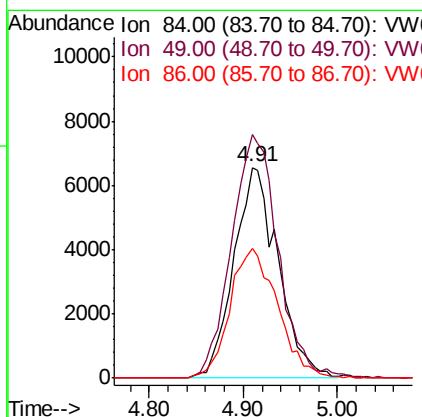
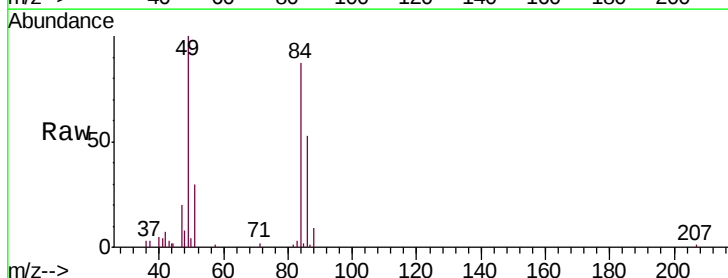
Instrument :
MSVOA_W
ClientSampleId :
MDL05

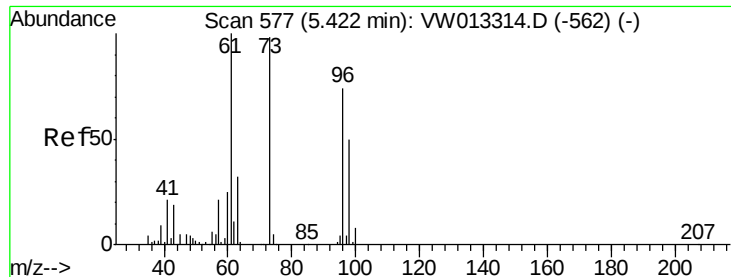
Tgt Ion: 43 Resp: 4054
Ion Ratio Lower Upper
43 100
74 36.6 18.7 28.1#



#16
Methylene chloride
Concen: 3.085 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

Tgt Ion: 84 Resp: 21524
Ion Ratio Lower Upper
84 100
49 115.4 84.8 157.4
86 61.3 44.0 81.6

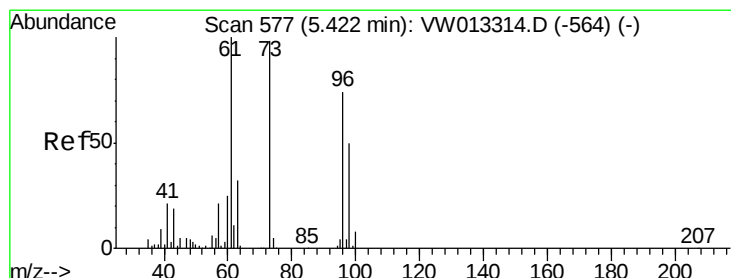
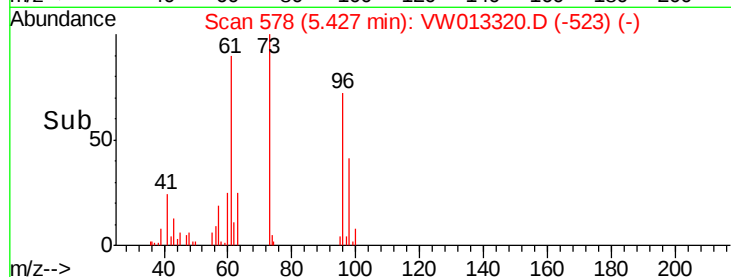
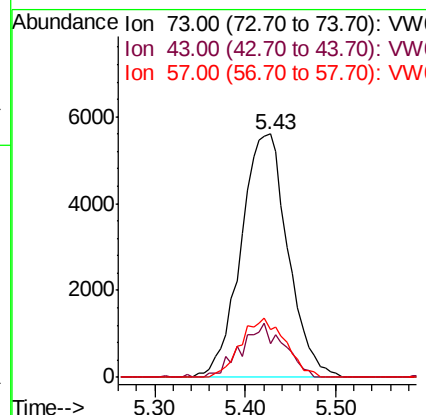
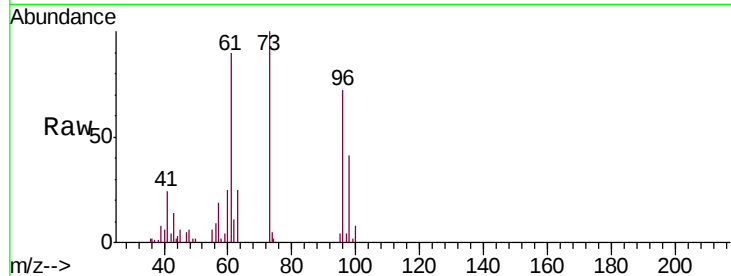




#17
Methyl tert-butyl Ether
Concen: 2.159 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

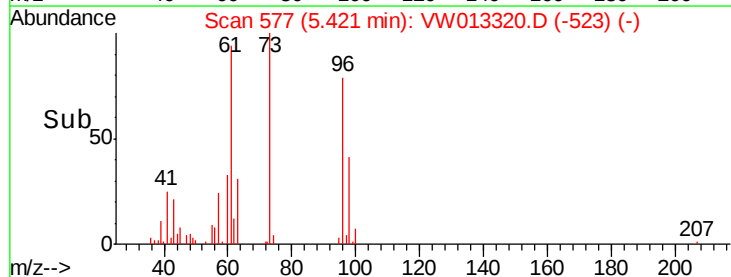
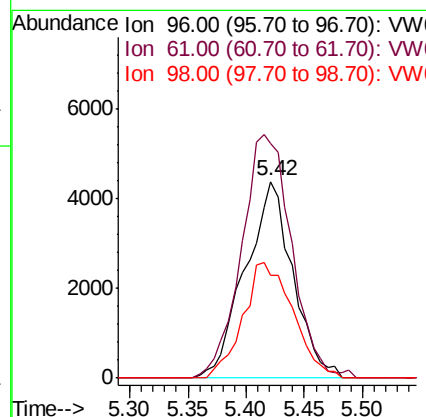
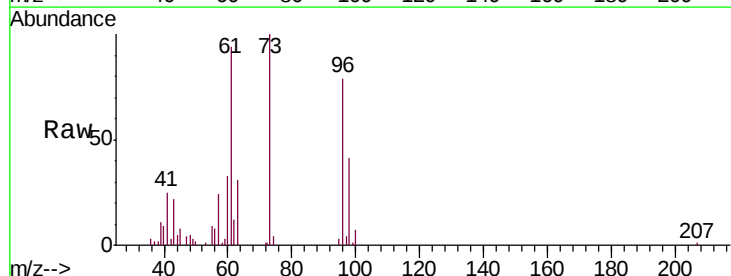
Instrument :
MSVOA_W
ClientSampled :
MDL05

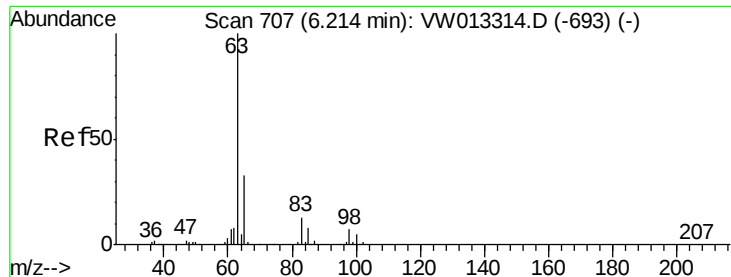
Tgt Ion: 73 Resp: 20101
Ion Ratio Lower Upper
73 100
43 1.8 15.3 22.9#
57 12.3 18.2 27.4#



#18
trans-1,2-Dichloroethene
Concen: 2.165 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

Tgt Ion: 96 Resp: 12465
Ion Ratio Lower Upper
96 100
61 119.6 91.2 169.4
98 52.3 44.7 82.9

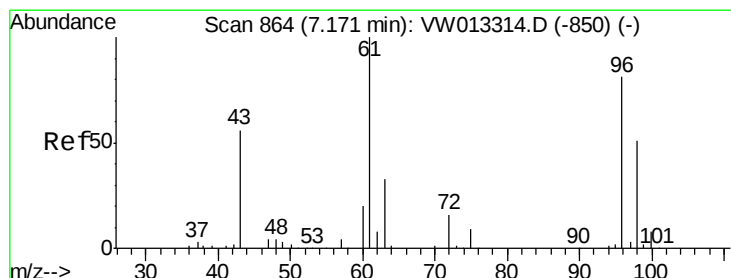
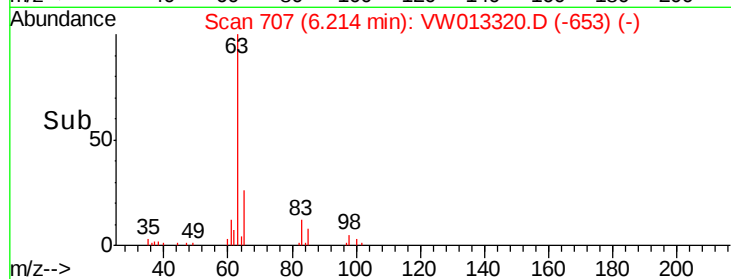
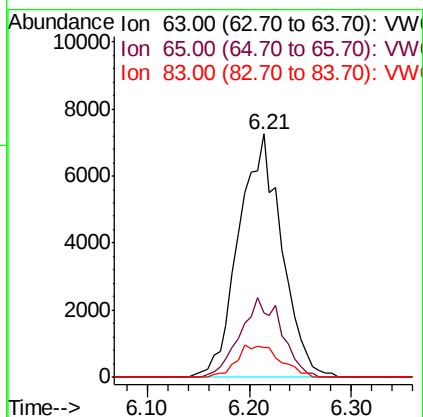
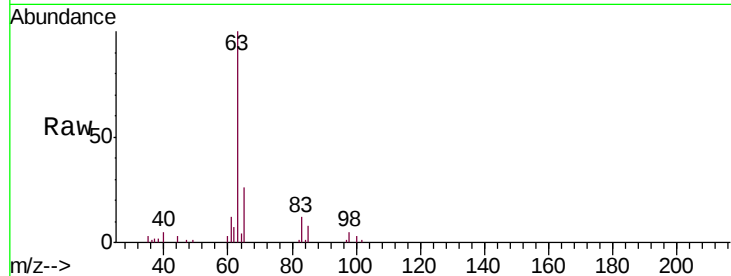




#19
 1,1-Dichloroethane
 Concen: 2.108 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

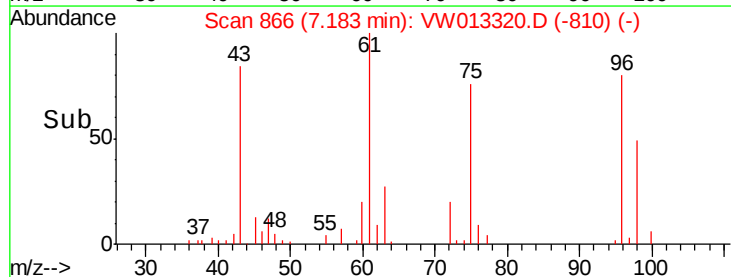
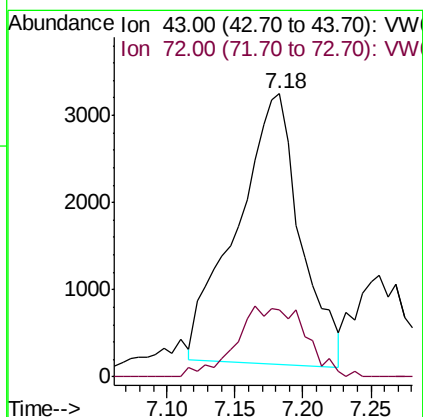
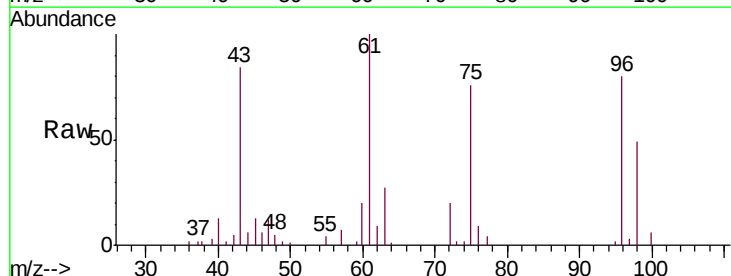
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

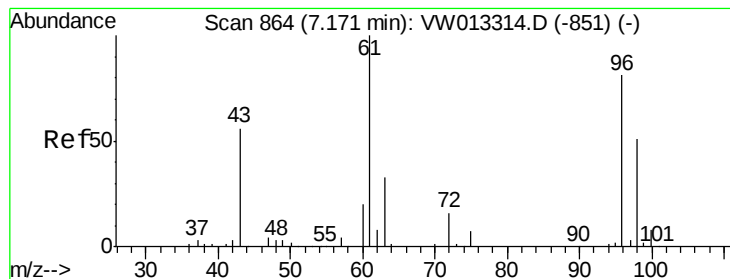
Tgt Ion: 63 Resp: 21279
 Ion Ratio Lower Upper
 63 100
 65 26.5 21.8 40.4
 83 12.1 9.3 17.3



#21
 2-Butanone
 Concen: 4.400 ug/L
 RT: 7.18 min Scan# 866
 Delta R.T. 0.01 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Tgt Ion: 43 Resp: 10152
 Ion Ratio Lower Upper
 43 100
 72 12.7 13.2 39.6#



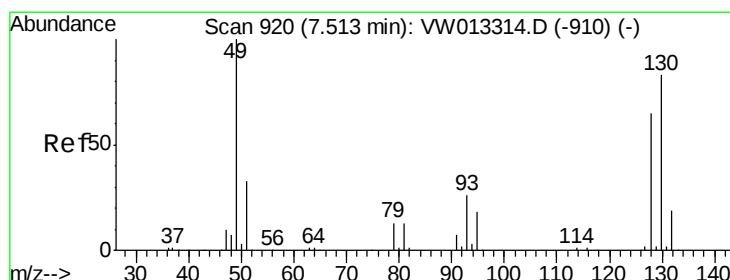
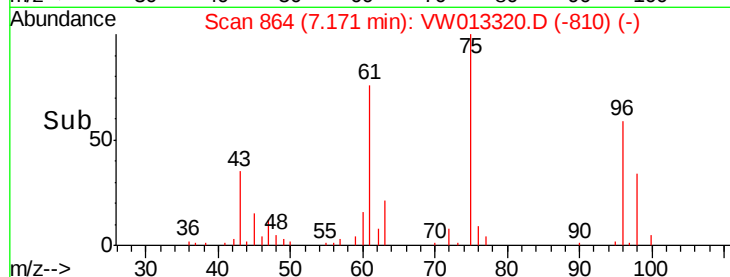
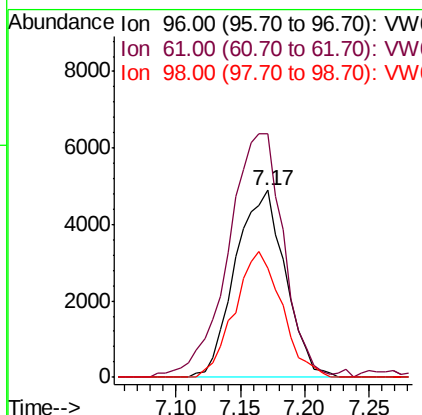
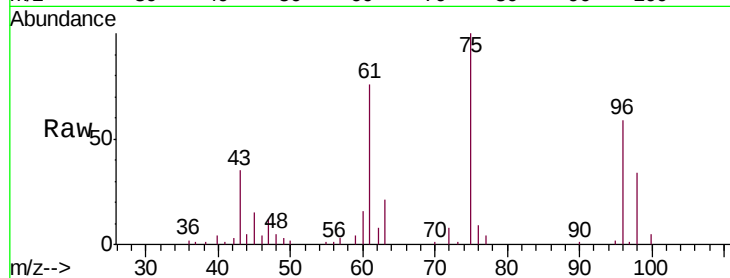


#22

cis-1,2-Dichloroethene
 Concen: 2.104 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Instrument :
 MSVOA_W
 ClientSampled :
 MDL05

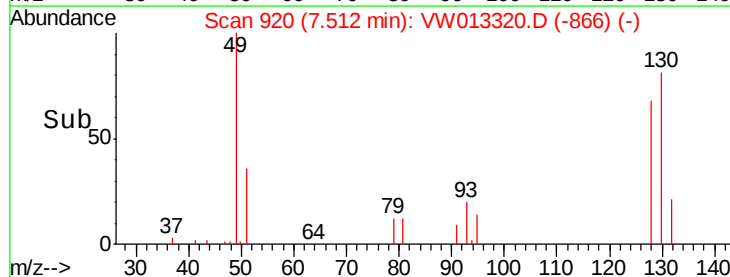
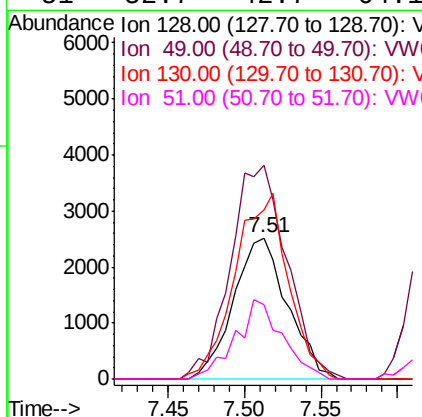
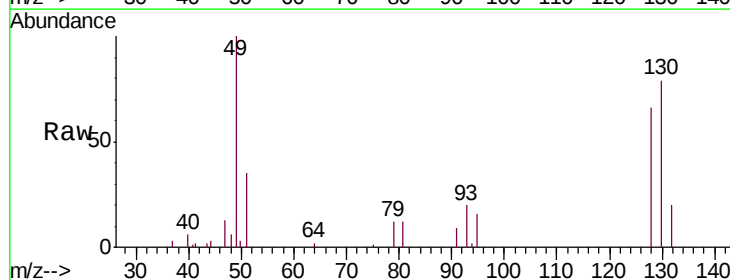
Tgt Ion: 96 Resp: 13197
 Ion Ratio Lower Upper
 96 100
 61 130.1 86.0 159.6
 98 58.4 43.5 80.9

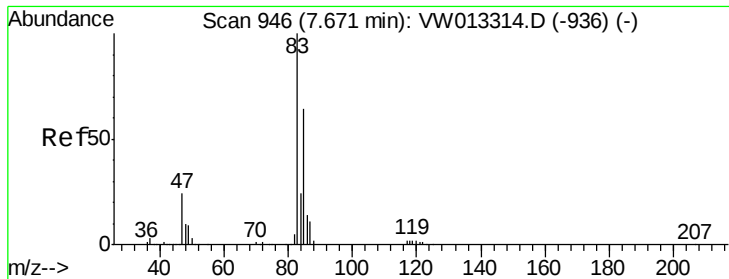


#23

Bromochloromethane
 Concen: 2.190 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Tgt Ion: 128 Resp: 6181
 Ion Ratio Lower Upper
 128 100
 49 151.1 114.6 212.8
 130 119.3 92.6 172.0
 51 52.7 42.7 64.1

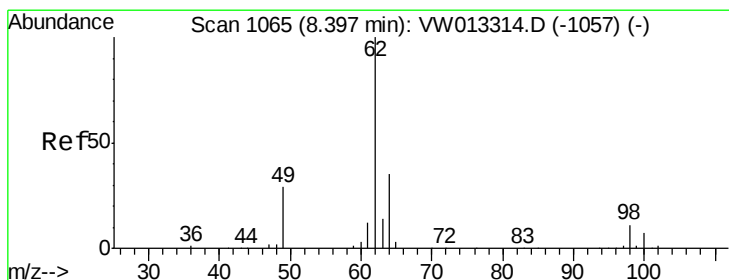
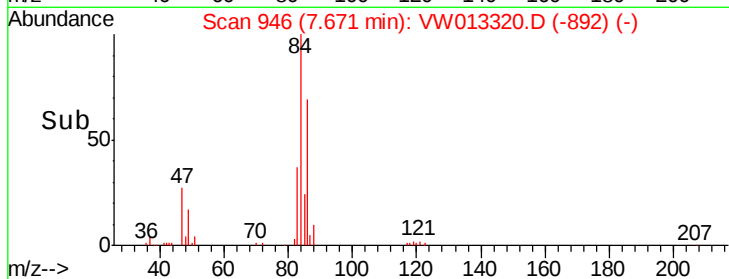
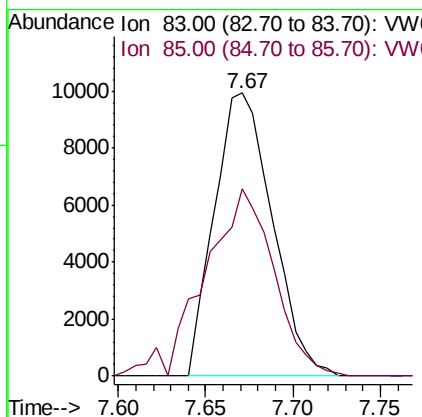
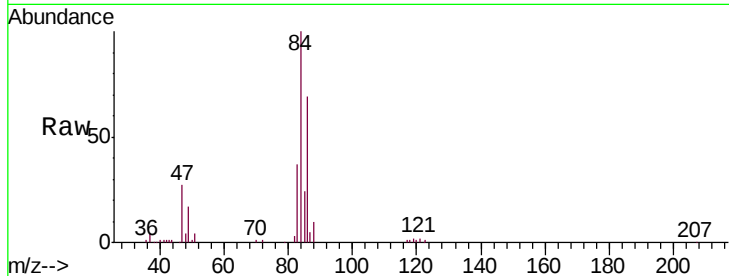




#25
Chloroform
Concen: 2.304 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

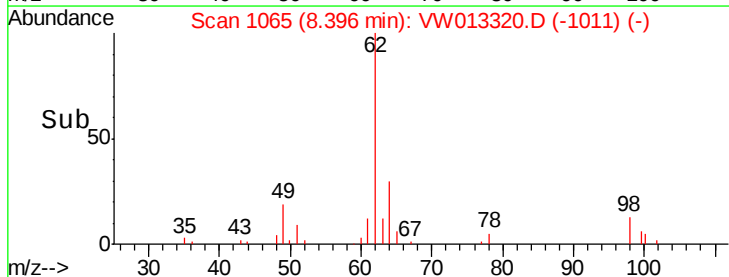
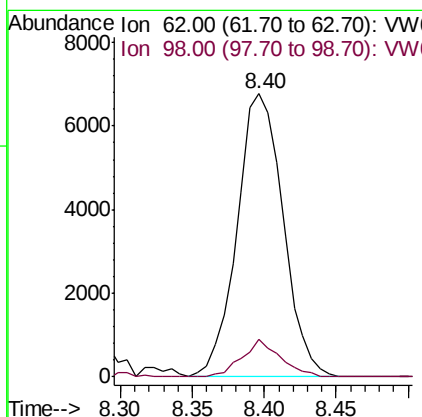
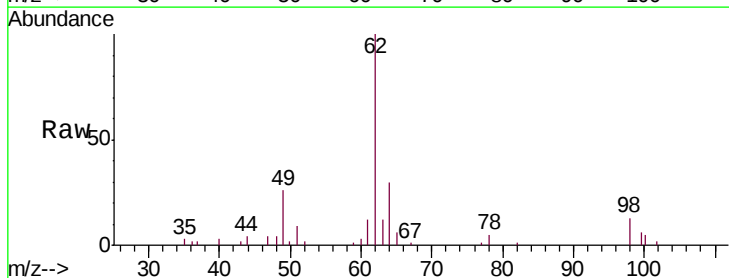
Instrument :
MSVOA_W
ClientSampled :
MDL05

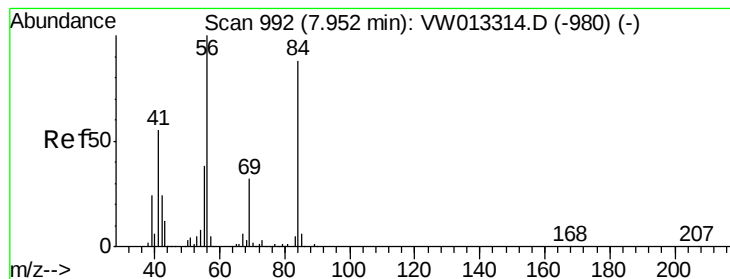
Tgt Ion: 83 Resp: 22859
Ion Ratio Lower Upper
83 100
85 76.5 45.9 85.3



#27
1,2-Dichloroethane
Concen: 2.313 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

Tgt Ion: 62 Resp: 15027
Ion Ratio Lower Upper
62 100
98 13.4 9.0 13.6





#30

Cyclohexane

Concen: 1.992 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

MDL05

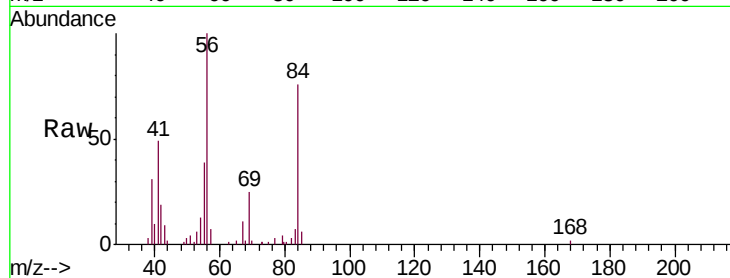
Tgt Ion: 56 Resp: 19892

Ion Ratio Lower Upper

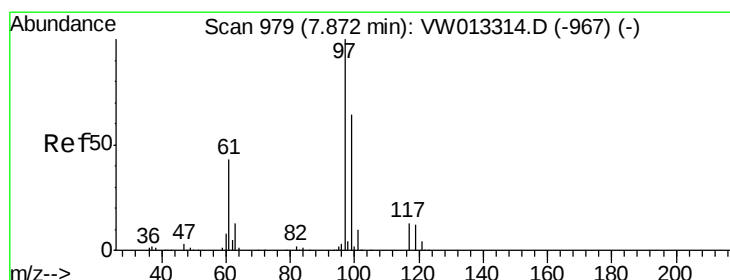
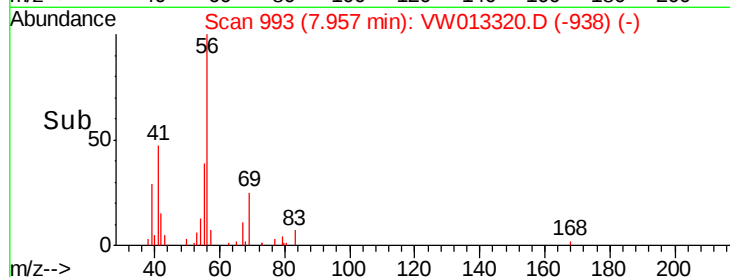
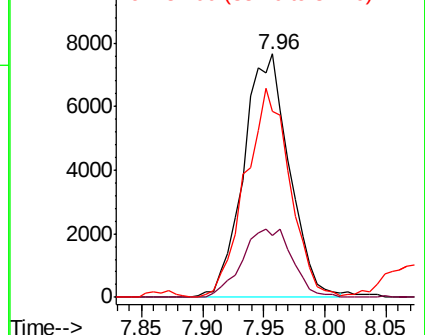
56 100

69 19.9 24.6 37.0#

84 83.8 69.5 104.3



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 2.201 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

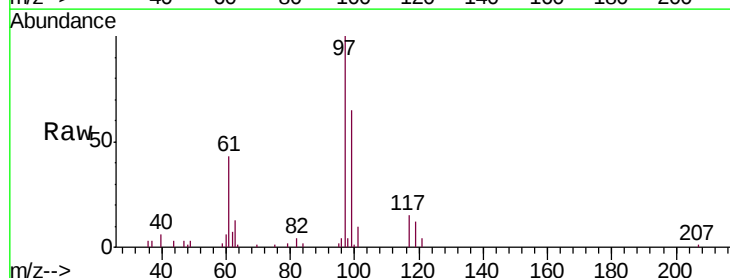
Tgt Ion: 97 Resp: 17560

Ion Ratio Lower Upper

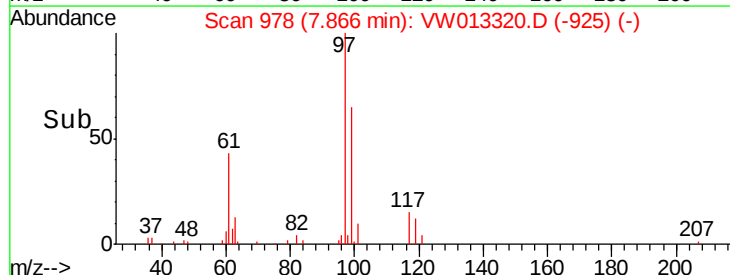
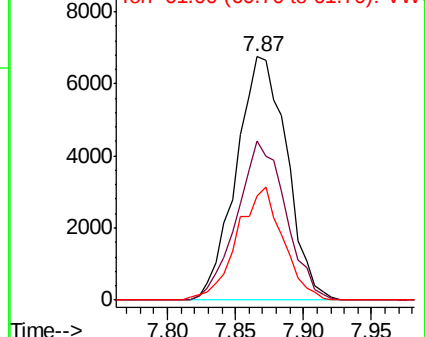
97 100

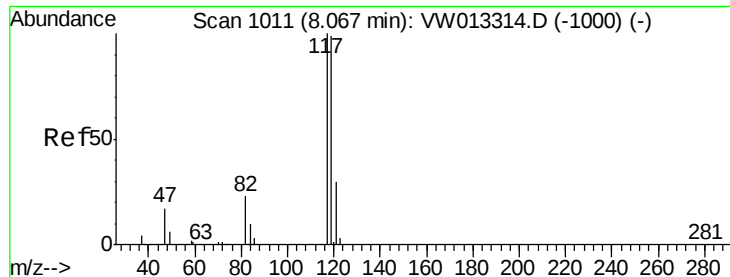
99 63.0 50.6 75.8

61 42.0 34.2 51.2



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 2.069 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampled :

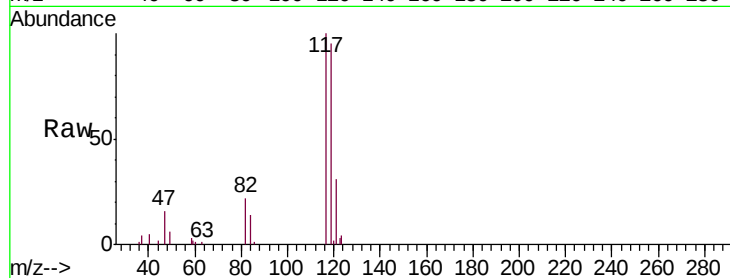
MDL05

Tgt Ion:117 Resp: 15738

Ion Ratio Lower Upper

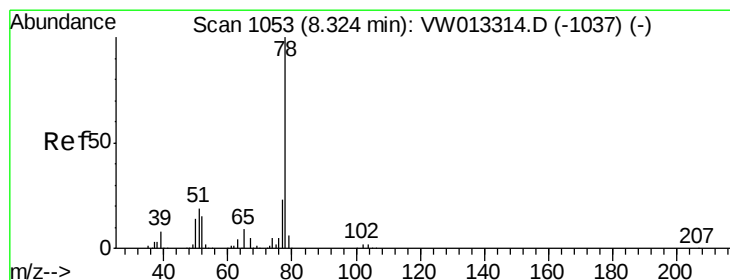
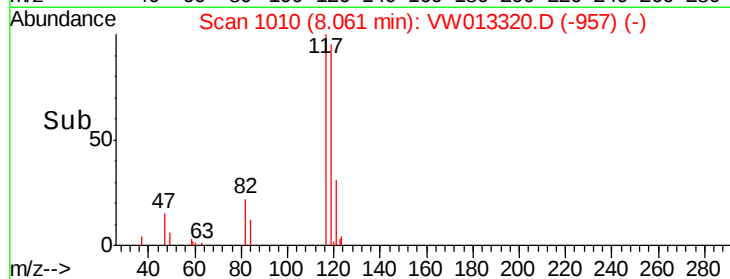
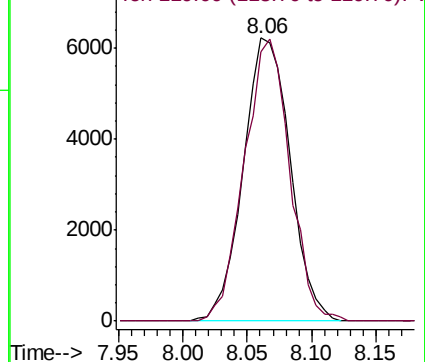
117 100

119 96.2 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: 2.188 ug/L

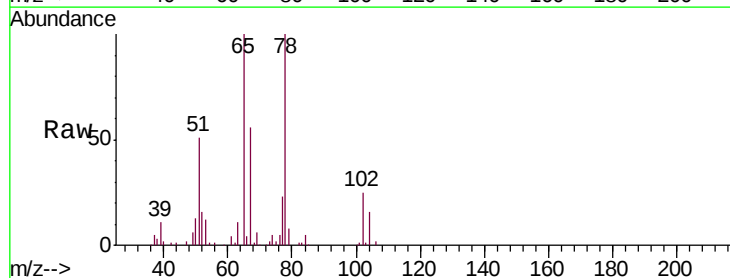
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

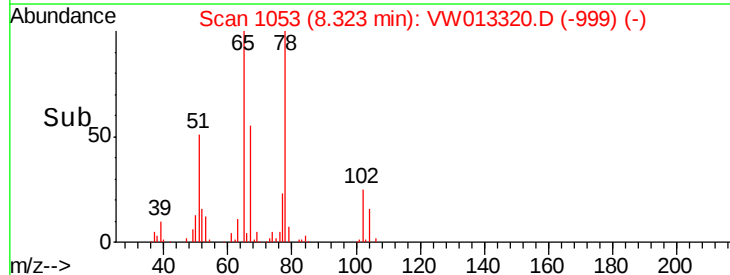
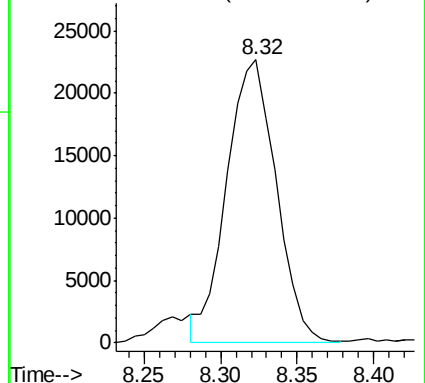
Lab File: VW013320.D

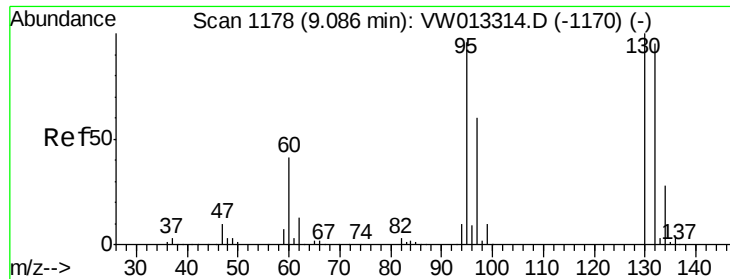
Acq: 27 Sep 2019 14:00

Tgt Ion: 78 Resp: 50984



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 2.145 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

MDL05

Tgt Ion: 95 Resp: 13136

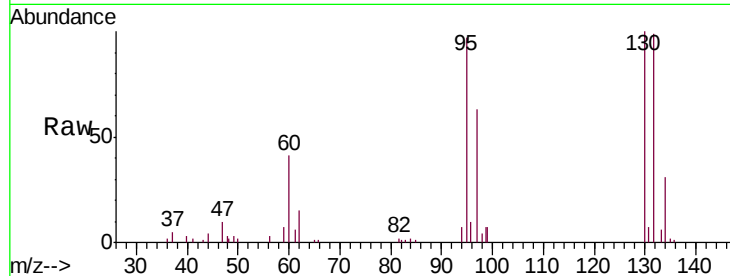
Ion Ratio Lower Upper

95 100

97 65.7 44.3 82.3

132 104.0 71.7 133.3

130 111.4 74.1 137.7

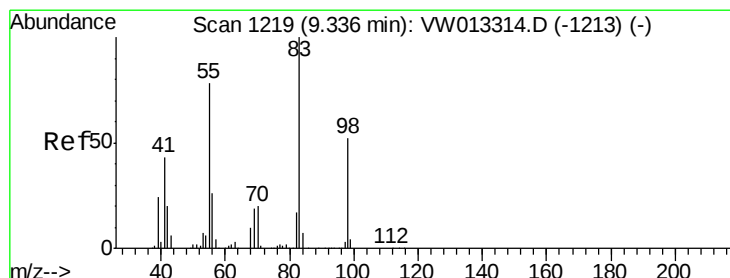
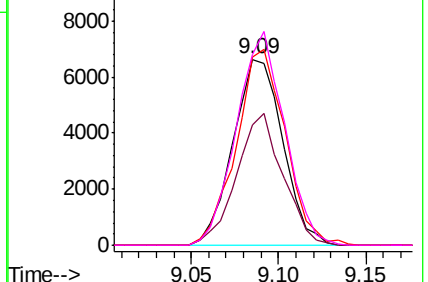
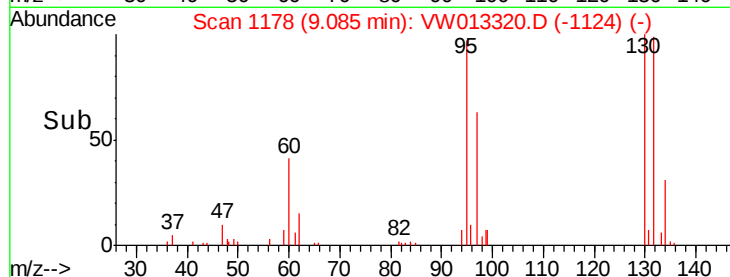


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 1.993 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

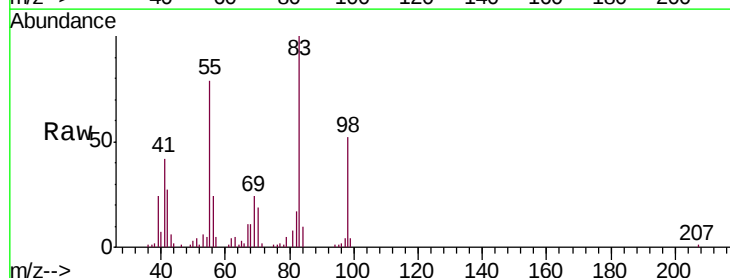
Tgt Ion: 83 Resp: 21735

Ion Ratio Lower Upper

83 100

55 76.7 61.8 92.6

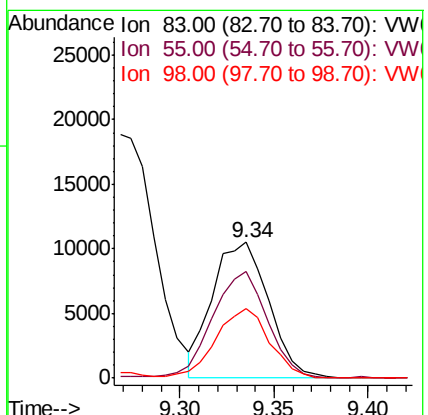
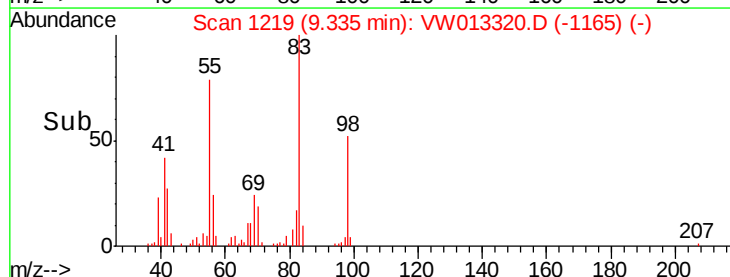
98 49.6 39.6 59.4

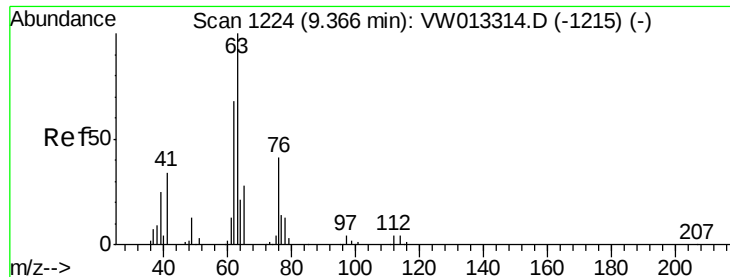


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

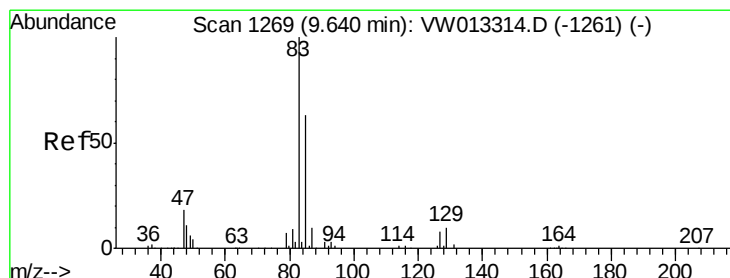
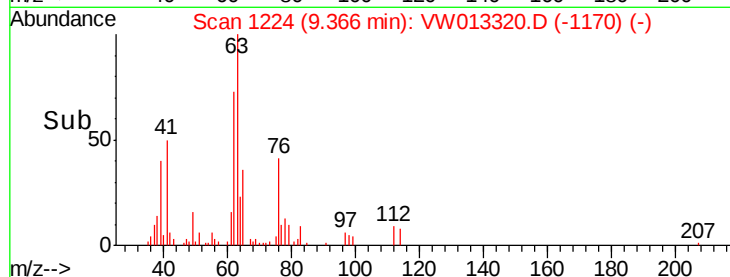
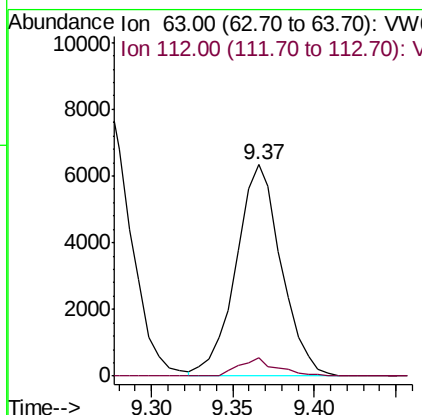
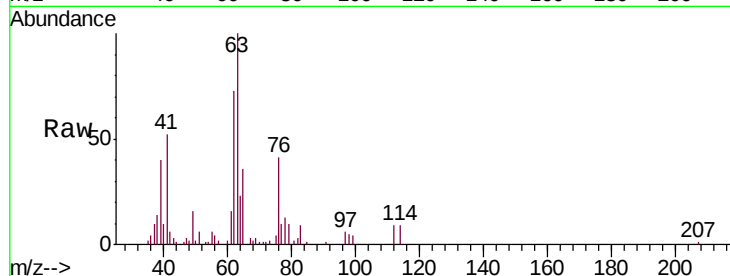




#40
 1,2-Dichloropropane
 Concen: 2.139 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

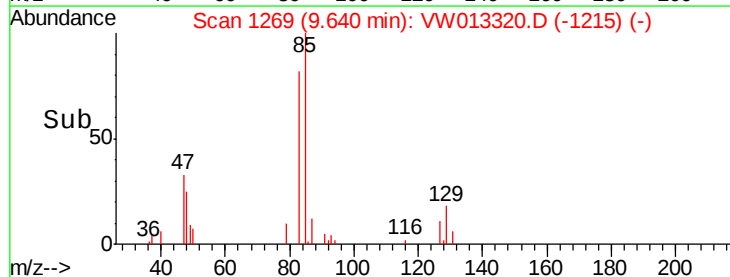
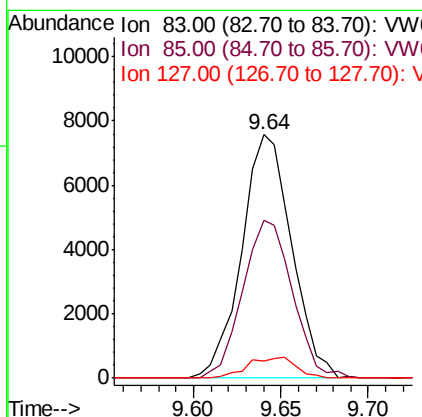
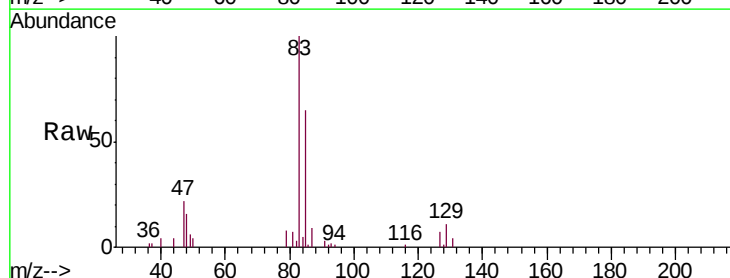
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

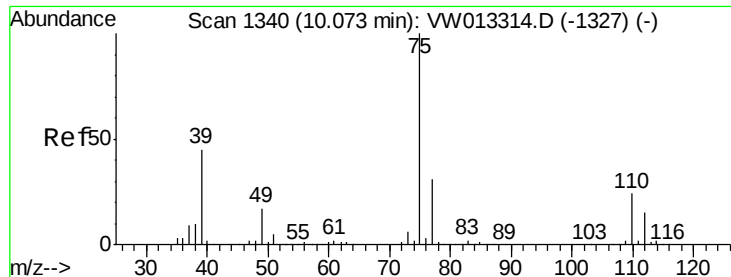
Tgt Ion: 63 Resp: 12262
 Ion Ratio Lower Upper
 63 100
 112 6.9 4.1 6.1#



#41
 Bromodichloromethane
 Concen: 2.139 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Tgt Ion: 83 Resp: 15045
 Ion Ratio Lower Upper
 83 100
 85 64.7 43.8 81.4
 127 6.9 7.0 10.6#





#42

cis-1,3-Dichloropropene

Concen: 2.185 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampled :

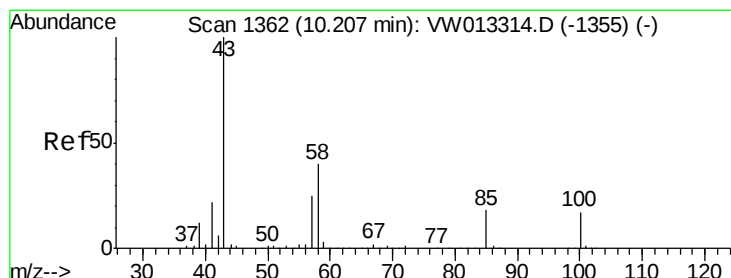
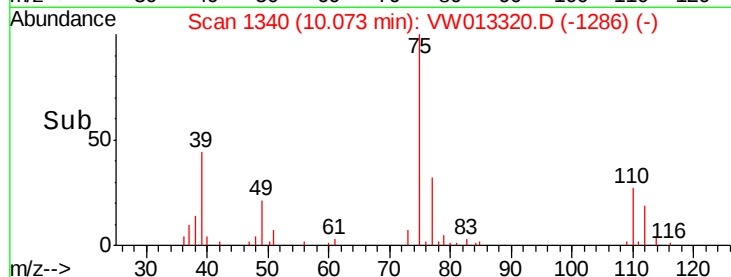
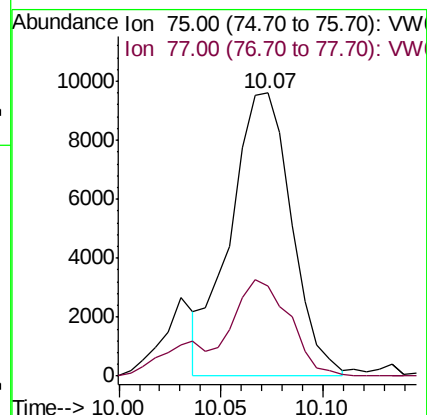
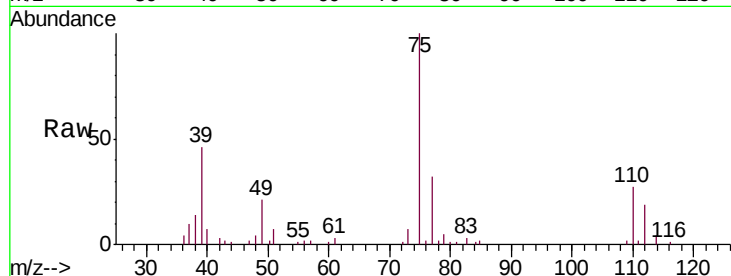
MDL05

Tgt Ion: 75 Resp: 20011

Ion Ratio Lower Upper

75 100

77 32.1 21.3 39.5



#43

4-Methyl-2-pentanone

Concen: 4.792 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

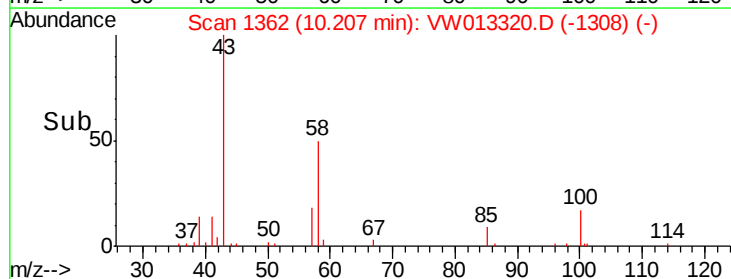
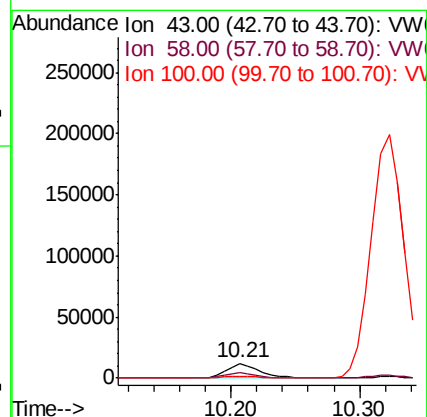
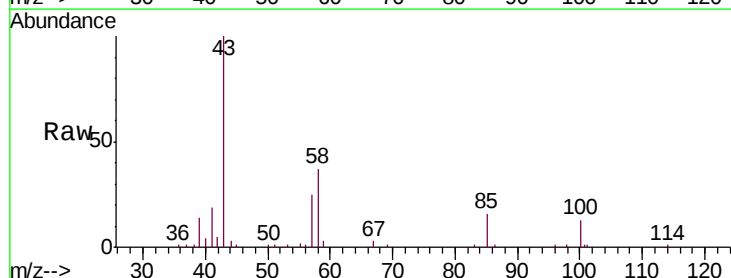
Tgt Ion: 43 Resp: 21036

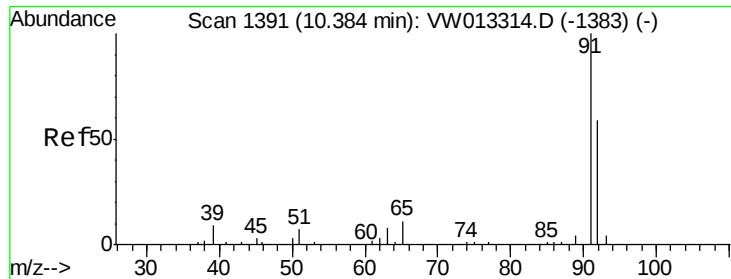
Ion Ratio Lower Upper

43 100

58 37.3 32.7 49.1

100 14.1 12.9 19.3

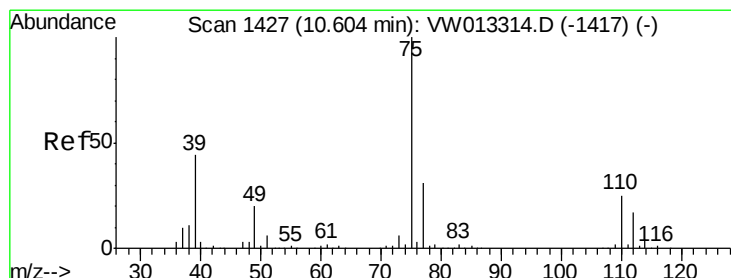
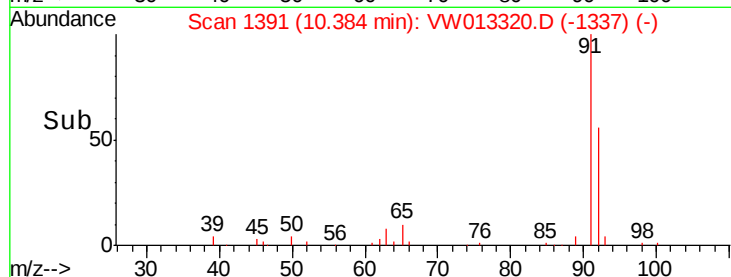
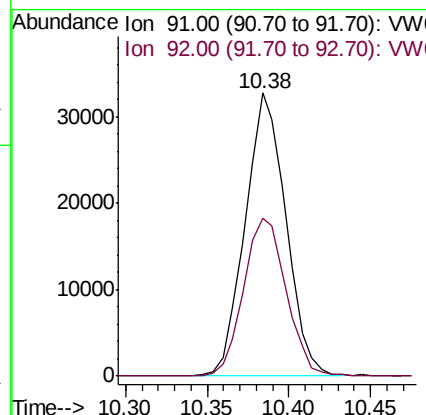
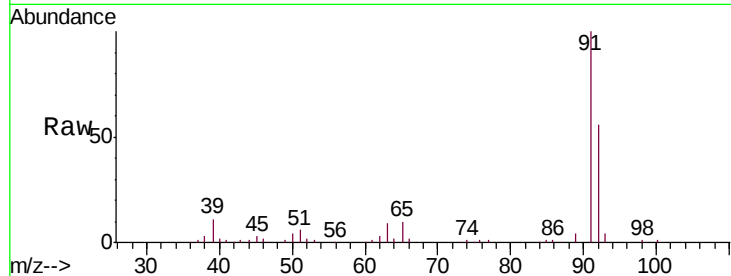




#44
Toluene
Concen: 2.246 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

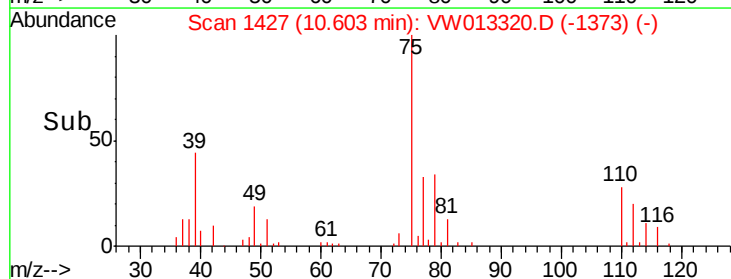
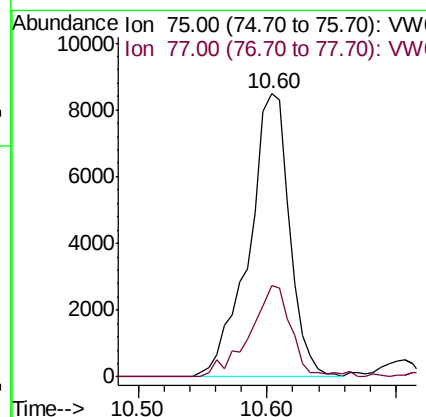
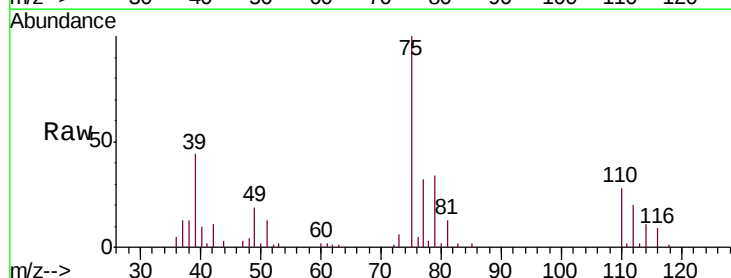
Instrument :
MSVOA_W
ClientSampled :
MDL05

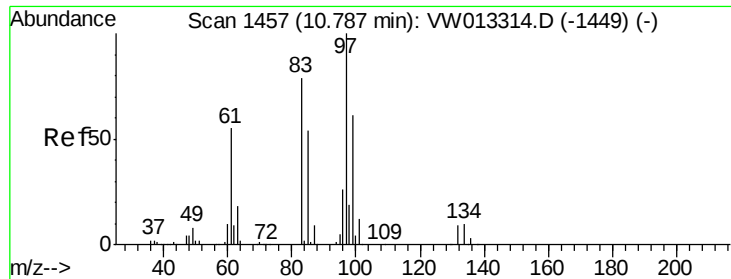
Tgt Ion: 91 Resp: 56990
Ion Ratio Lower Upper
91 100
92 55.9 41.5 77.1



#45
trans-1,3-Dichloropropene
Concen: 2.512 ug/L
RT: 10.60 min Scan# 1427
Delta R.T. -0.00 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

Tgt Ion: 75 Resp: 18492
Ion Ratio Lower Upper
75 100
77 32.4 20.5 38.1

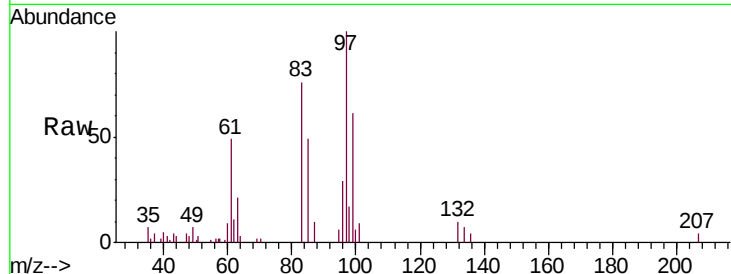




#46
 1,1,2-Trichloroethane
 Concen: 2.219 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Instrument :
 MSVOA_W
 ClientSampled :
 MDL05

Tgt Ion:	97	Resp:	9969
Ion	Ratio	Lower	Upper
97	100		
83	76.1	59.4	110.2
85	48.8	38.7	71.9
99	60.9	45.8	85.0



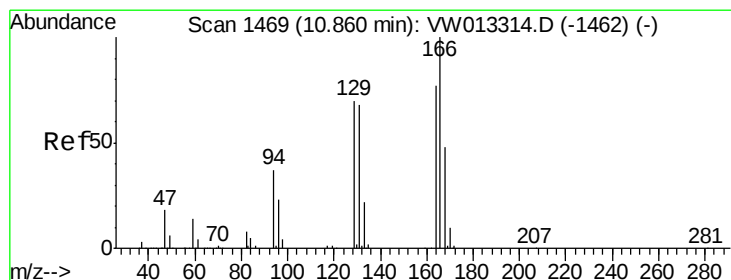
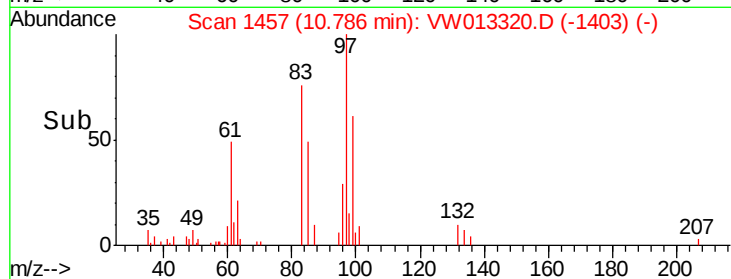
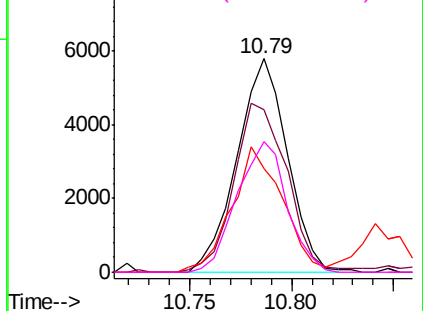
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

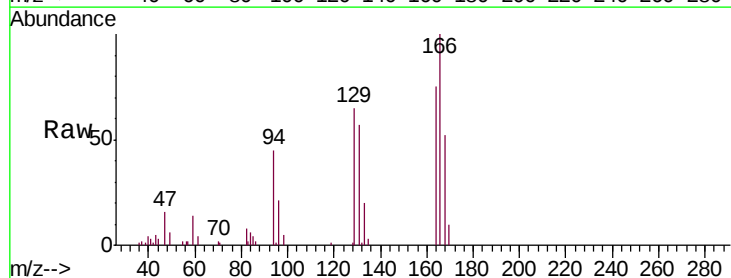
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47
 Tetrachloroethene
 Concen: 2.149 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Tgt Ion:	164	Resp:	11841
Ion	Ratio	Lower	Upper
164	100		
129	86.9	60.5	112.5
131	76.3	60.6	112.6
166	133.4	90.6	168.2



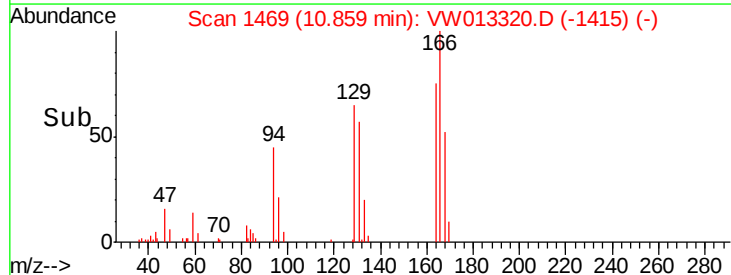
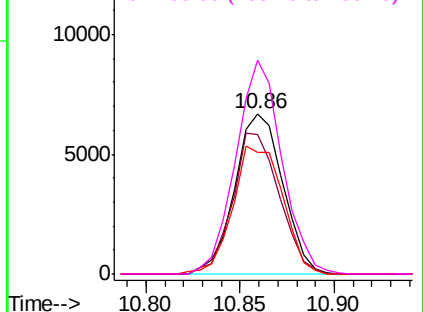
Abundance

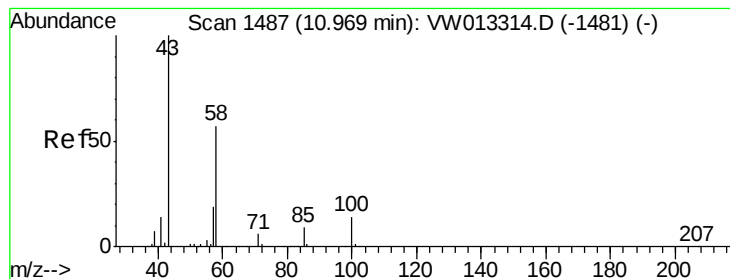
Ion 164.00 (163.70 to 164.70): V

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: 4.007 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampled :

MDL05

Tgt Ion: 43 Resp: 12644

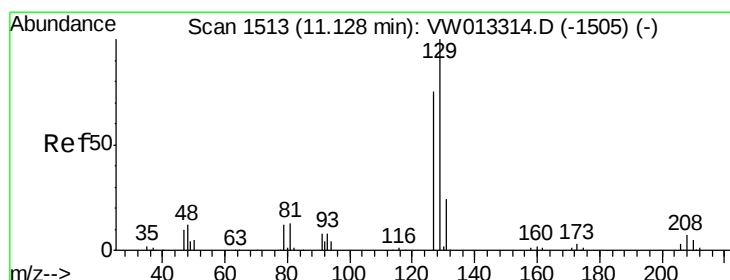
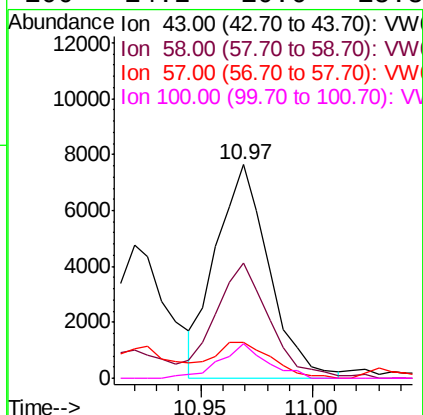
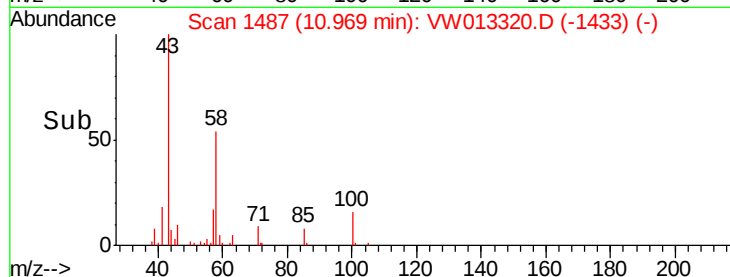
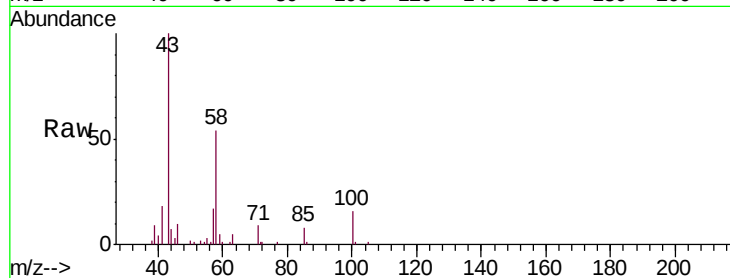
Ion Ratio Lower Upper

43 100

58 56.0 44.3 66.5

57 19.1 15.3 22.9

100 14.2 10.6 15.8



#50

Dibromochloromethane

Concen: 2.150 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW013320.D

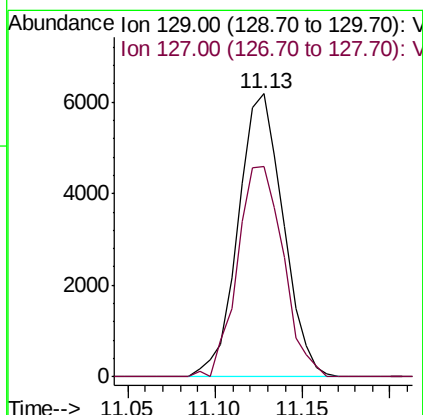
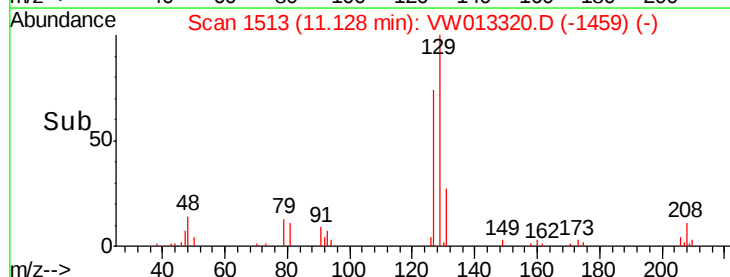
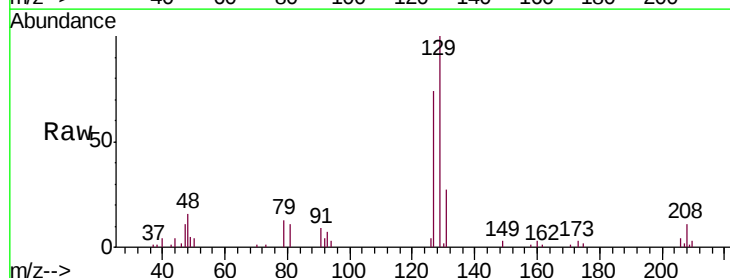
Acq: 27 Sep 2019 14:00

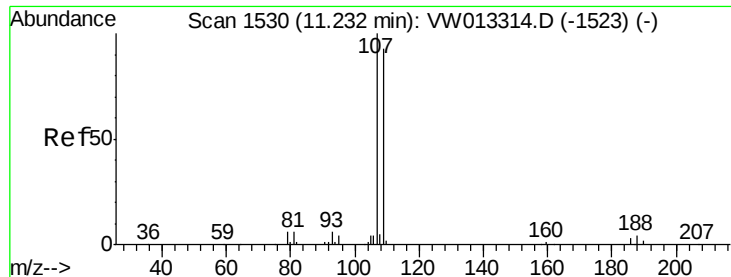
Tgt Ion: 129 Resp: 11079

Ion Ratio Lower Upper

129 100

127 74.3 56.1 104.1





#51

1,2-Dibromoethane

Concen: 2.085 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

MDL05

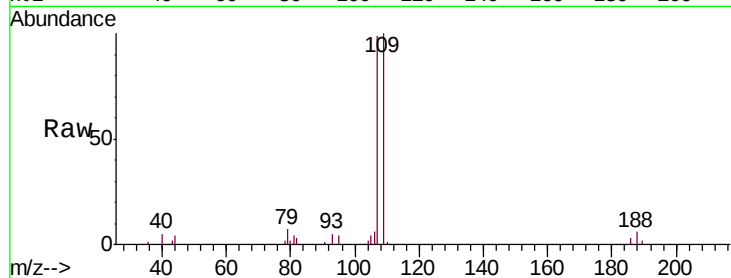
Tgt Ion:107 Resp: 9201

Ion Ratio Lower Upper

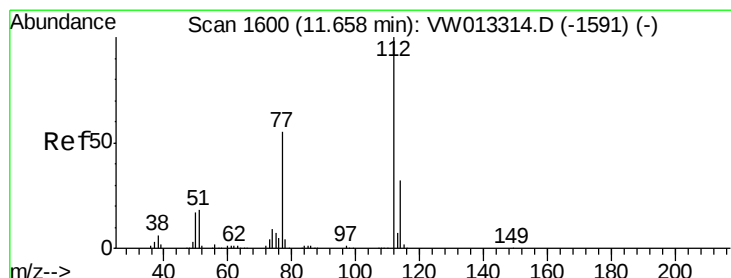
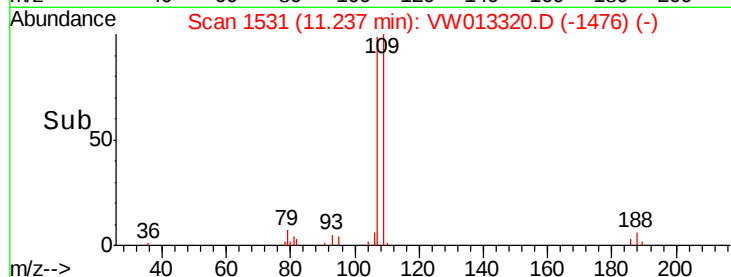
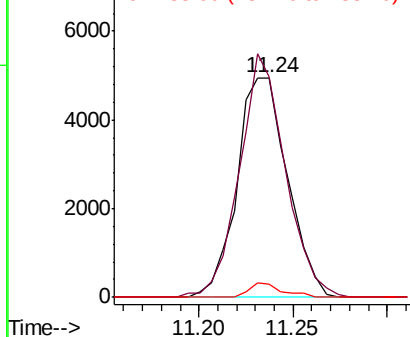
107 100

109 100.5 65.5 121.6

188 6.3 3.0 4.6#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 2.210 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

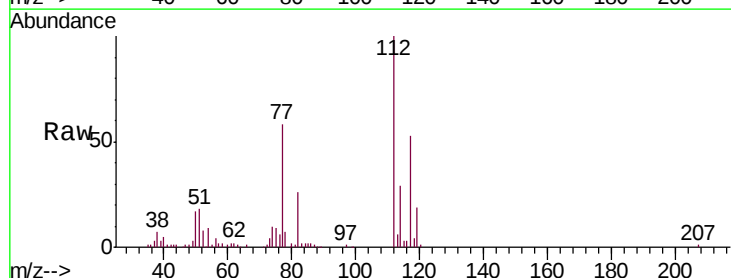
Tgt Ion:112 Resp: 35329

Ion Ratio Lower Upper

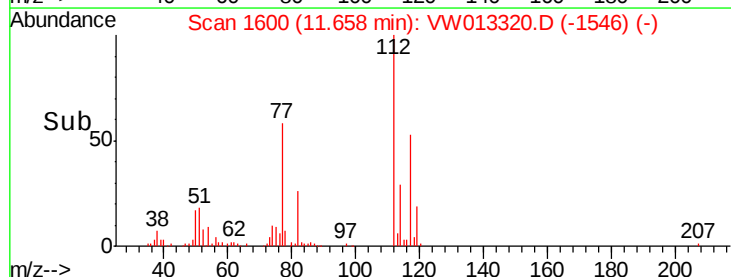
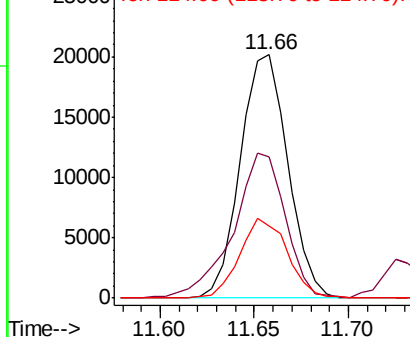
112 100

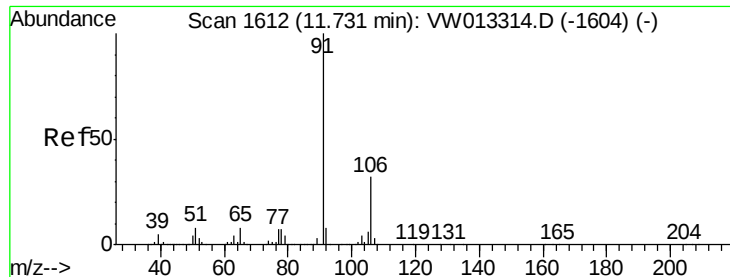
77 58.1 46.5 69.7

114 29.4 23.0 42.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 2.108 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

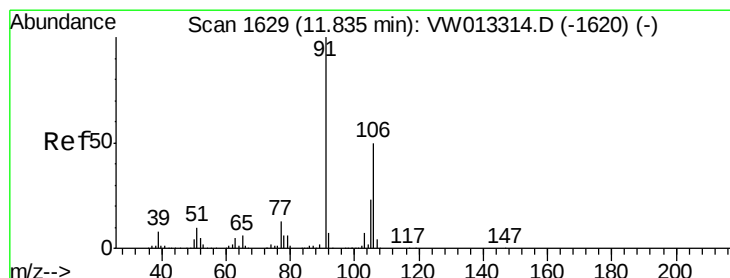
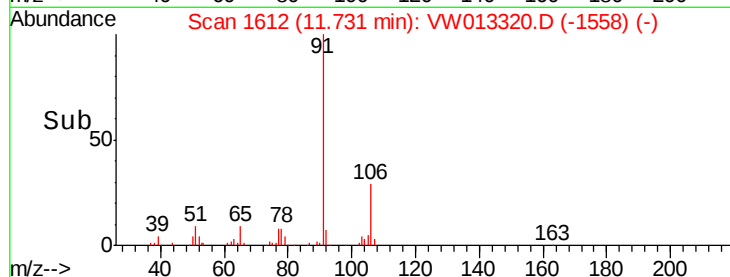
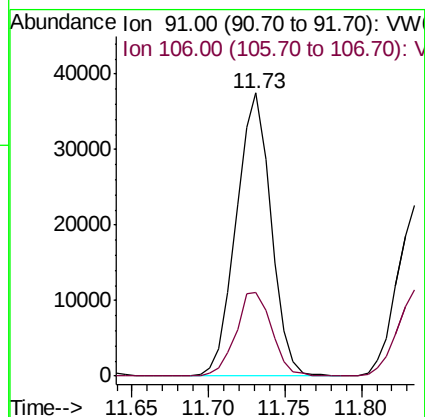
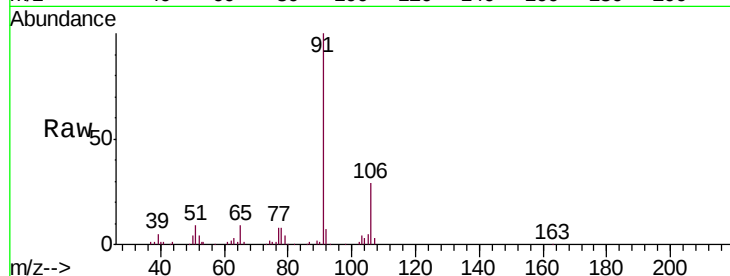
MDL05

Tgt Ion: 91 Resp: 59291

Ion Ratio Lower Upper

91 100

106 29.5 20.8 38.6



#54

m,p-Xylene

Concen: 2.088 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW013320.D

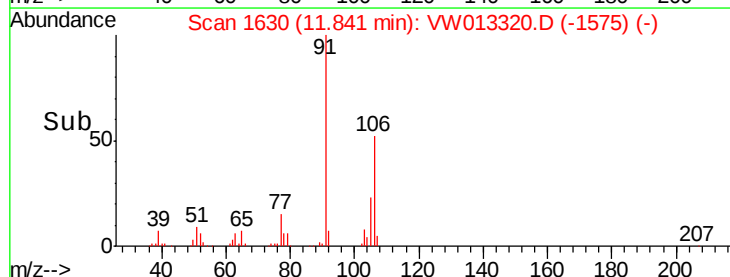
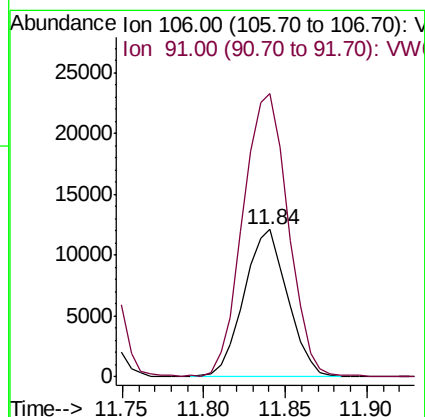
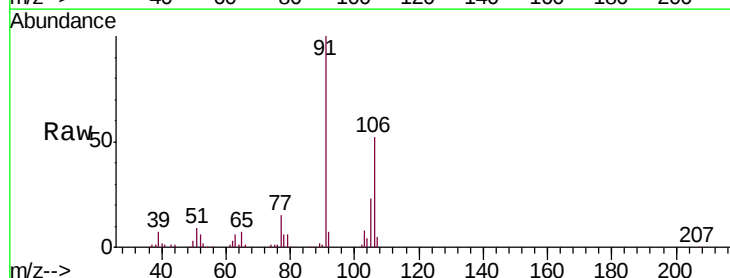
Acq: 27 Sep 2019 14:00

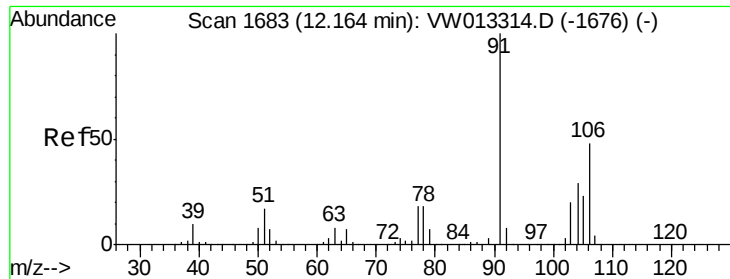
Tgt Ion: 106 Resp: 22553

Ion Ratio Lower Upper

106 100

91 191.8 138.3 256.9

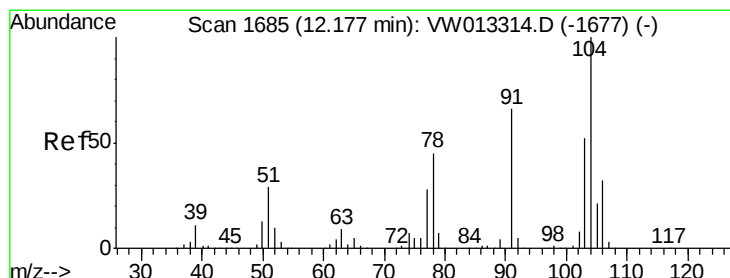
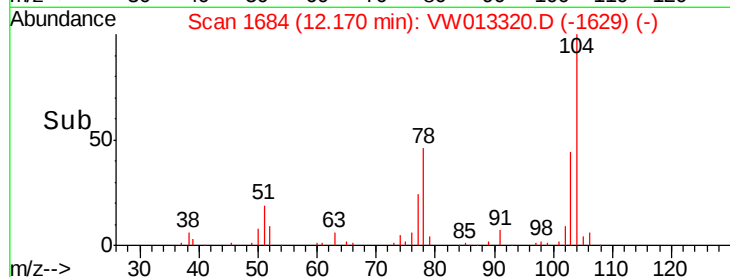
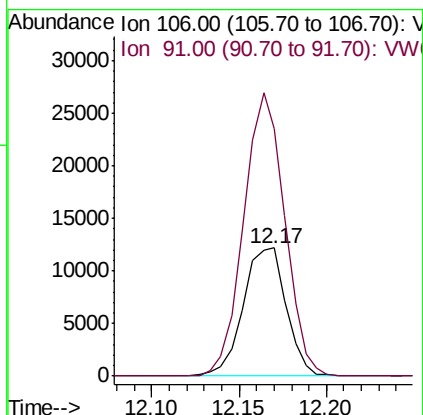
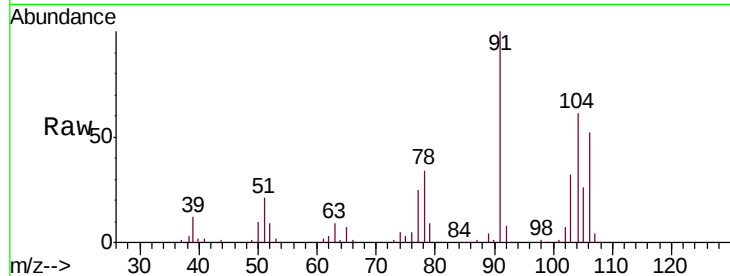




#55
o-xylene
Concen: 2.053 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

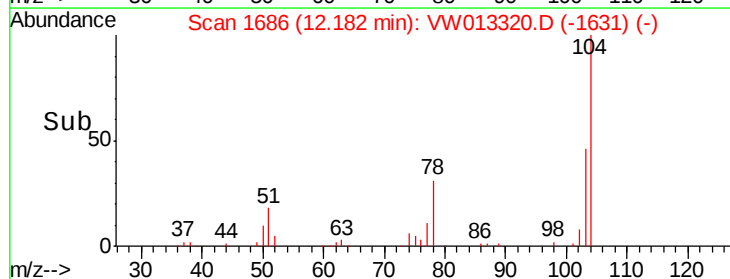
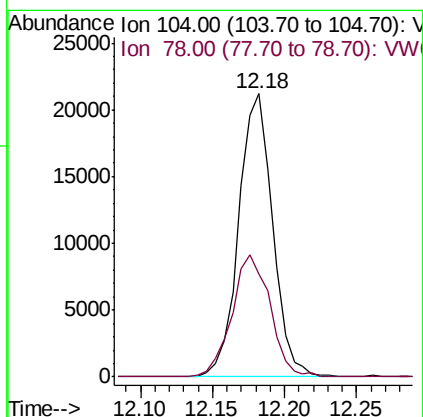
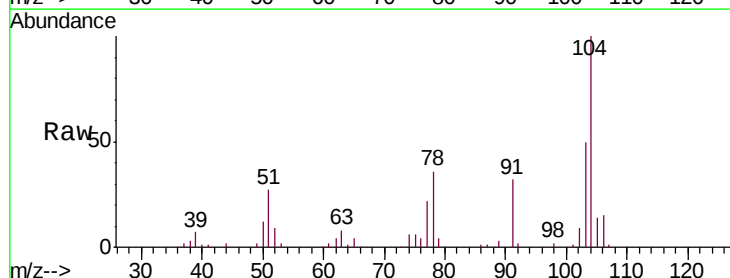
Instrument :
MSVOA_W
ClientSampled :
MDL05

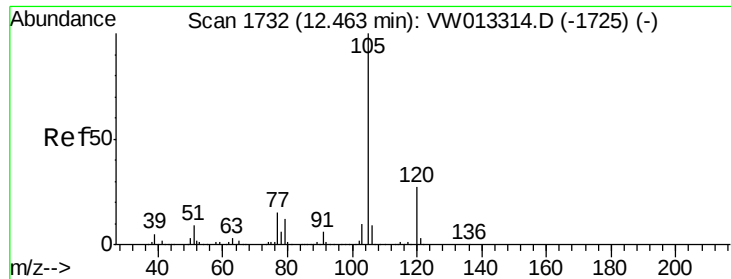
Tgt Ion:106 Resp: 20928
Ion Ratio Lower Upper
106 100
91 193.4 145.9 271.1



#56
Styrene
Concen: 1.986 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW013320.D
Acq: 27 Sep 2019 14:00

Tgt Ion:104 Resp: 34708
Ion Ratio Lower Upper
104 100
78 36.2 29.8 55.4





#57

Isopropylbenzene

Concen: 2.068 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

MDL05

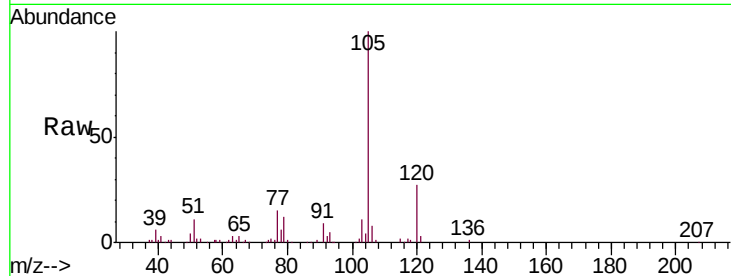
Tgt Ion:105 Resp: 56980

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

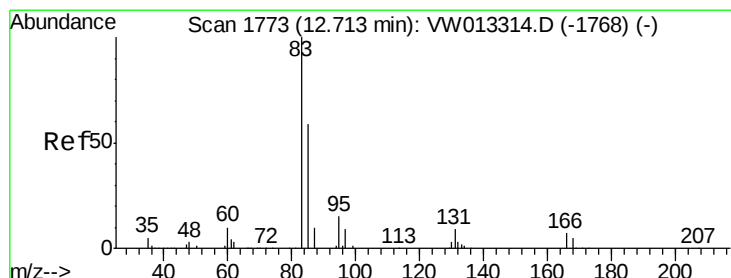
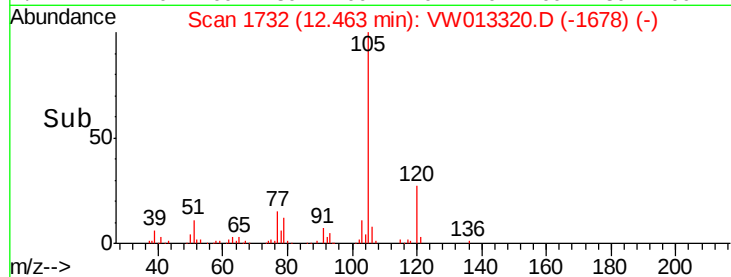
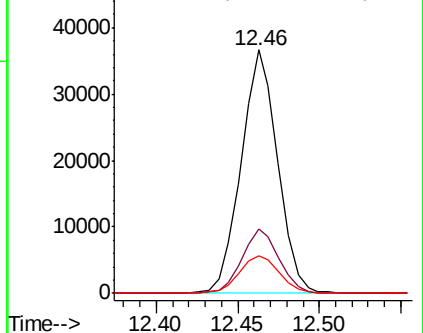
77 16.8 11.8 17.6



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: 2.159 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

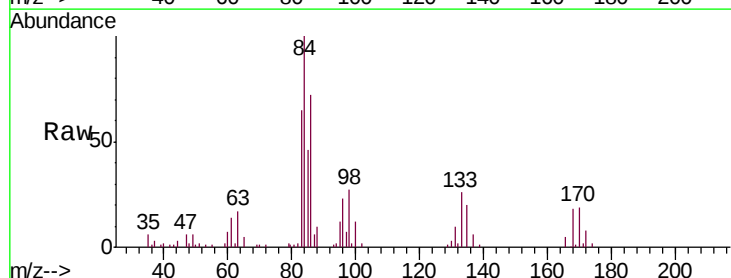
Tgt Ion: 83 Resp: 11947

Ion Ratio Lower Upper

83 100

85 70.5 45.2 84.0

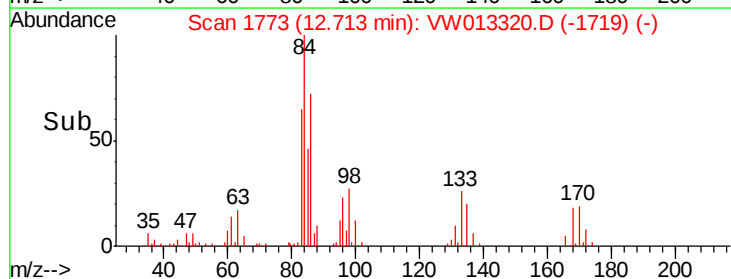
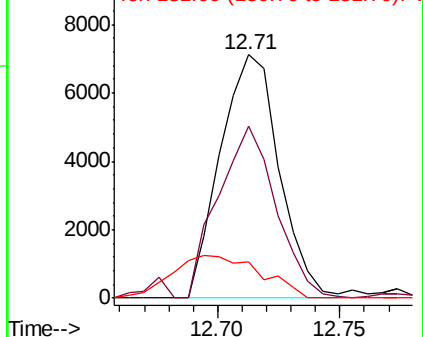
131 15.0 8.9 13.3#

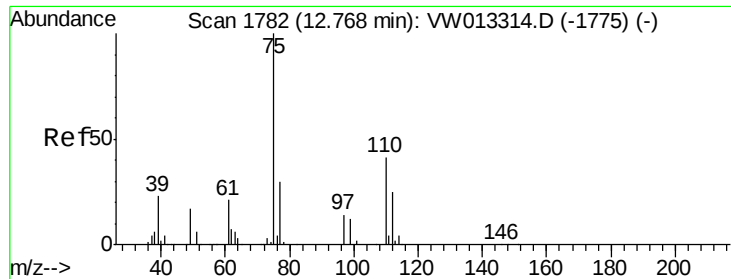


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

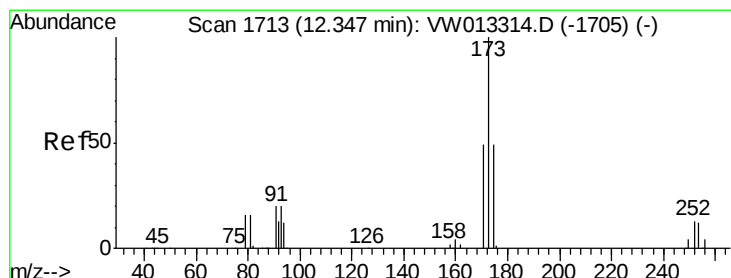
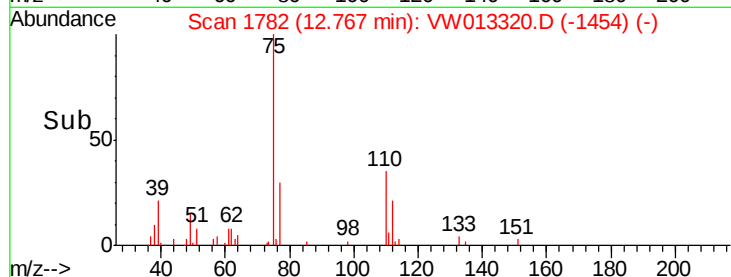
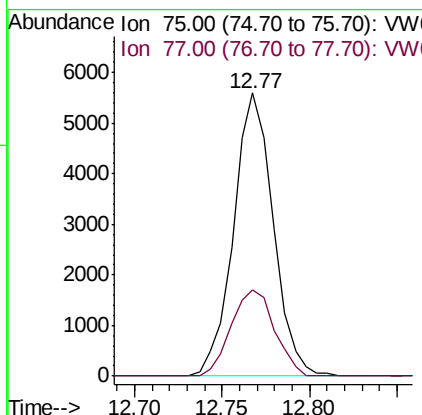
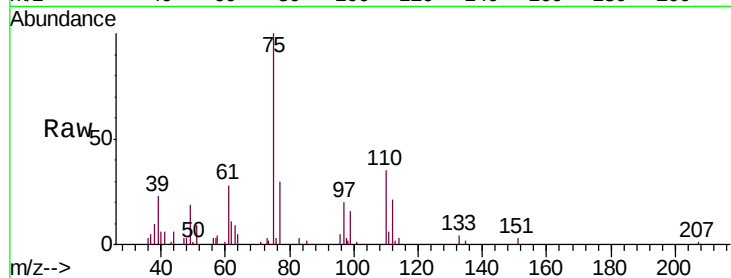




#59
 1,2,3-Trichloropropane
 Concen: 2.139 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

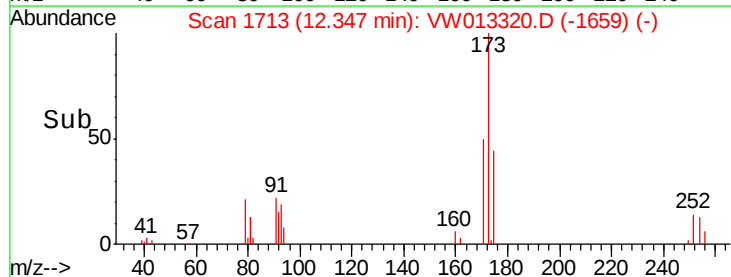
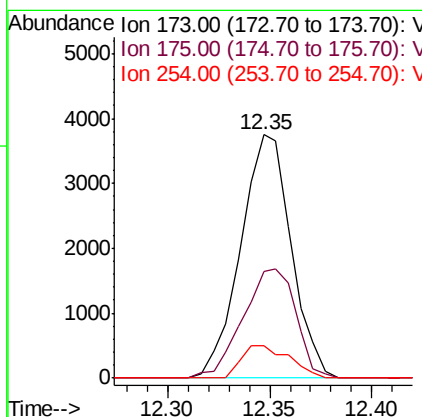
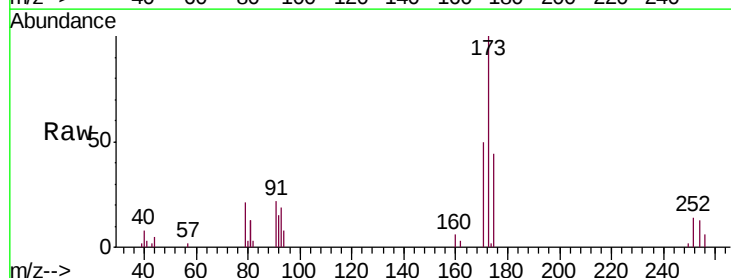
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

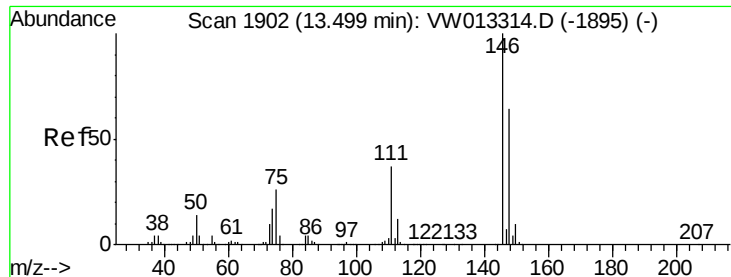
Tgt Ion: 75 Resp: 8835
 Ion Ratio Lower Upper
 75 100
 77 33.0 25.8 38.8



#62
 Bromoform
 Concen: 2.019 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Tgt Ion: 173 Resp: 6442
 Ion Ratio Lower Upper
 173 100
 175 46.9 39.3 58.9
 254 12.6 9.1 13.7

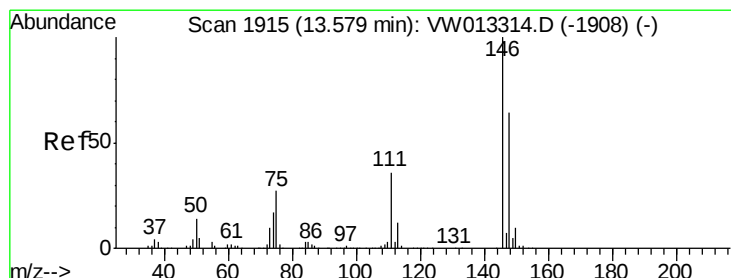
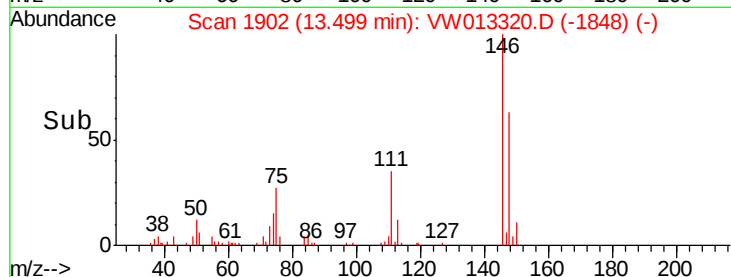
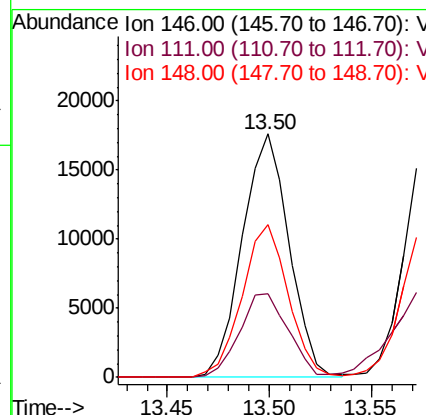
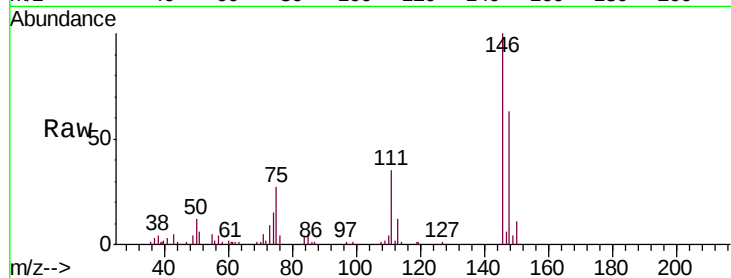




#63
 1,3-Dichlorobenzene
 Concen: 2.262 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

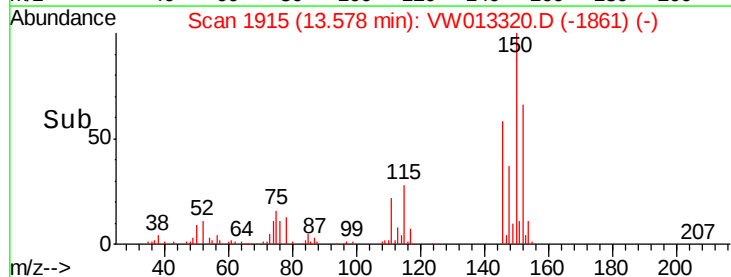
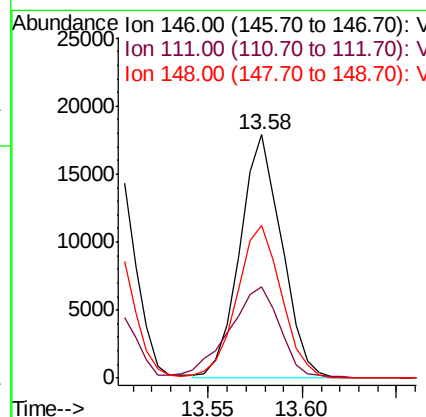
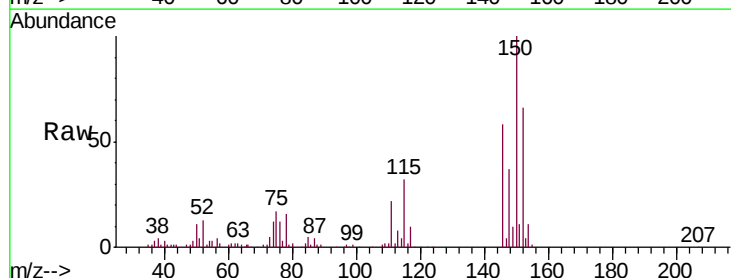
Instrument :
 MSVOA_W
 ClientSampled :
 MDL05

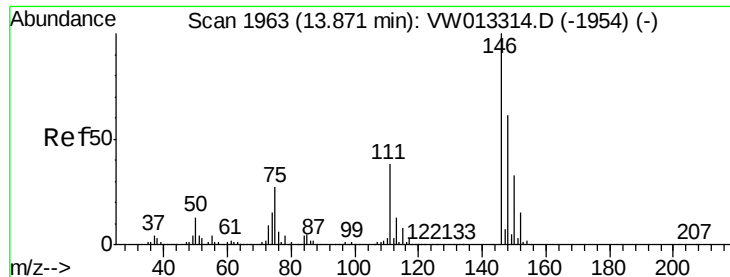
Tgt Ion:146 Resp: 28080
 Ion Ratio Lower Upper
 146 100
 111 34.6 26.7 49.5
 148 63.0 45.0 83.6



#64
 1,4-Dichlorobenzene
 Concen: 2.200 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Tgt Ion:146 Resp: 27590
 Ion Ratio Lower Upper
 146 100
 111 37.3 24.2 45.0
 148 62.7 45.1 83.7

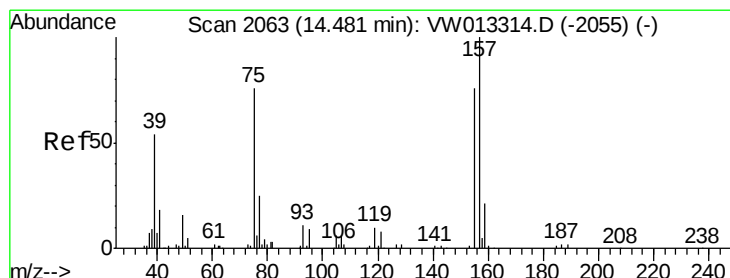
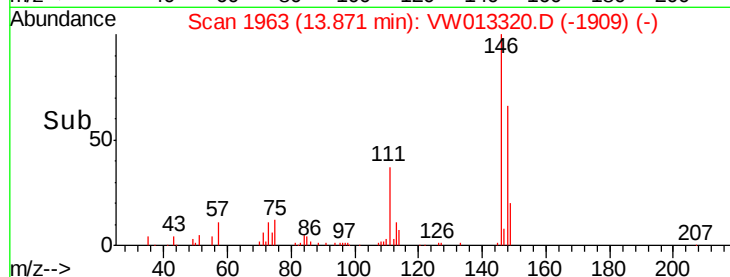
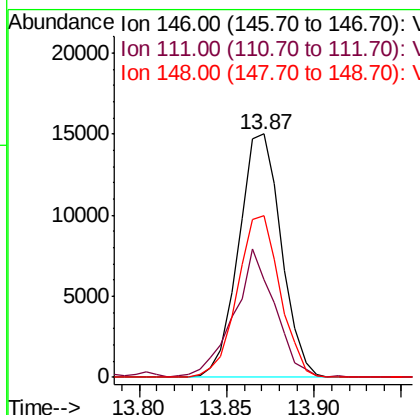
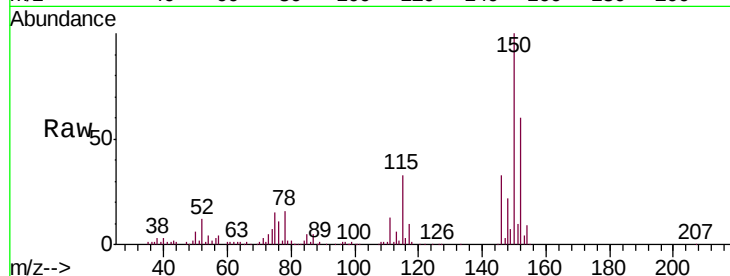




#65
 1,2-Dichlorobenzene
 Concen: 2.261 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

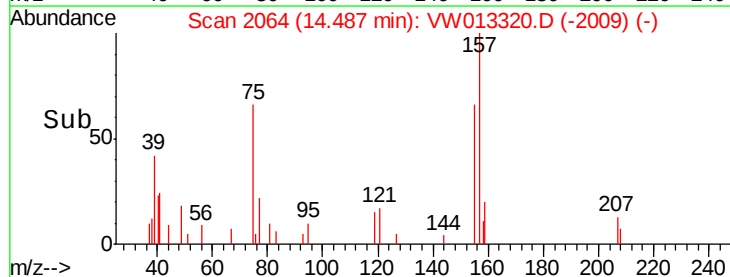
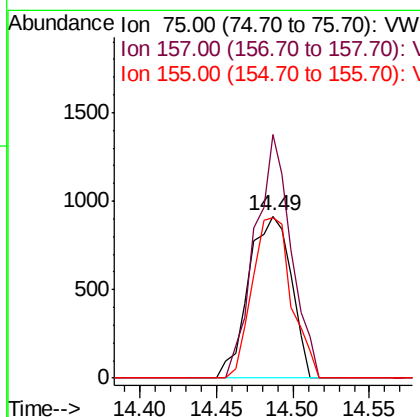
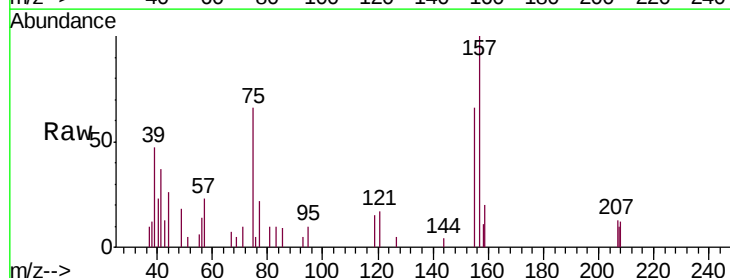
Instrument :
 MSVOA_W
 ClientSampled :
 MDL05

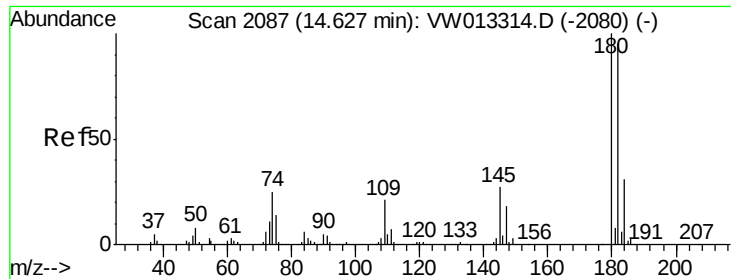
Tgt Ion:146 Resp: 25532
 Ion Ratio Lower Upper
 146 100
 111 40.1 30.8 46.2
 148 66.4 52.5 78.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.986 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Tgt Ion: 75 Resp: 1767
 Ion Ratio Lower Upper
 75 100
 157 150.5 97.8 146.8#
 155 98.8 78.4 117.6

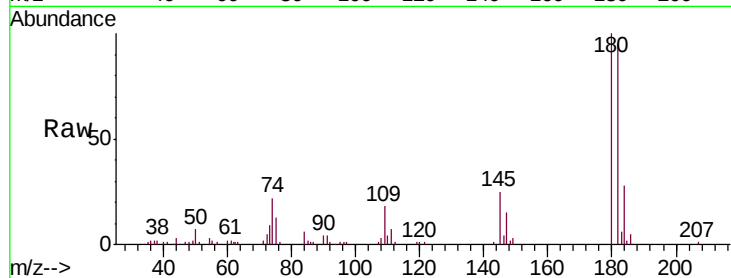




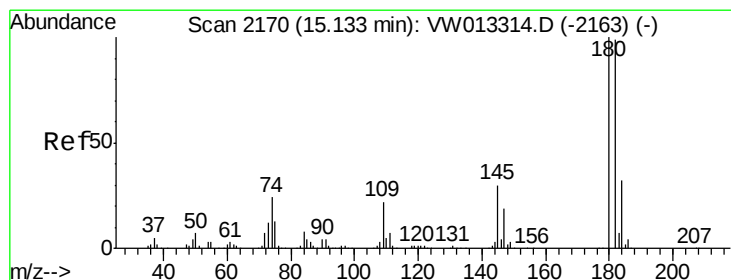
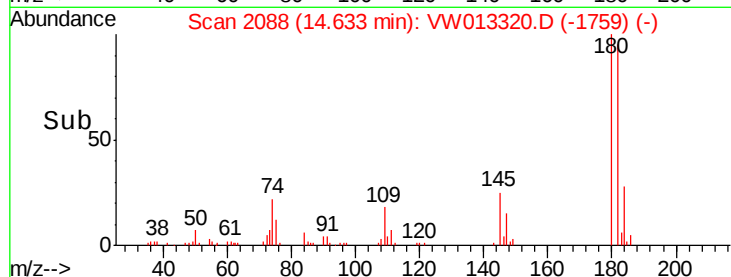
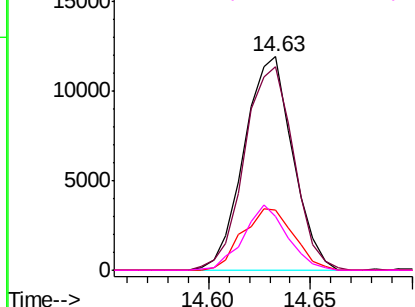
#67
 1,3,5-Trichlorobenzene
 Concen: 2.066 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL05

Tgt Ion:180 Resp: 19751
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.4 114.6
 184 30.5 23.9 35.9
 145 27.6 21.7 32.5

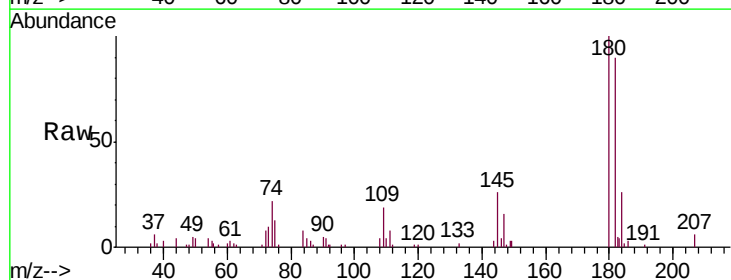


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

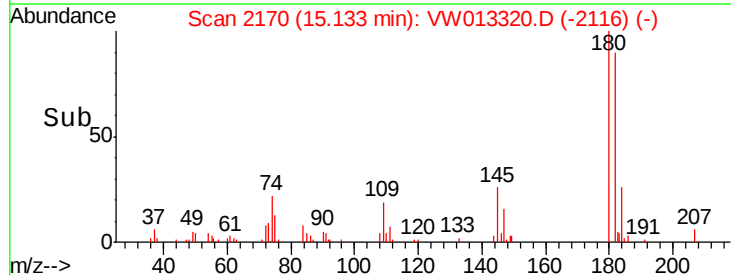
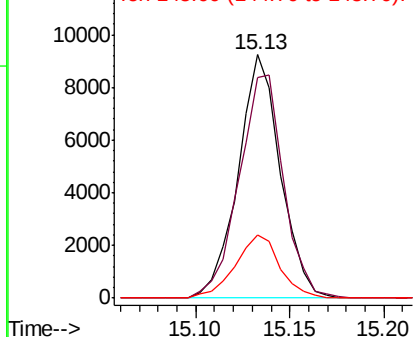


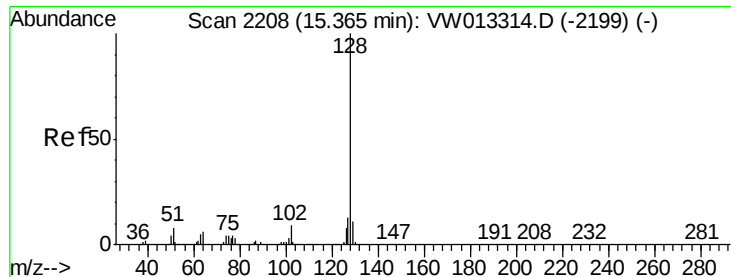
#68
 1,2,4-trichlorobenzene
 Concen: 1.882 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013320.D
 Acq: 27 Sep 2019 14:00

Tgt Ion:180 Resp: 14360
 Ion Ratio Lower Upper
 180 100
 182 96.7 75.9 113.9
 145 27.5 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: 1.576 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

Instrument :

MSVOA_W

ClientSampleId :

MDL05

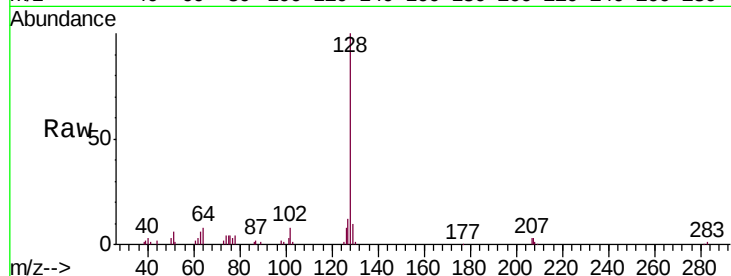
Tgt Ion:128 Resp: 22978

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

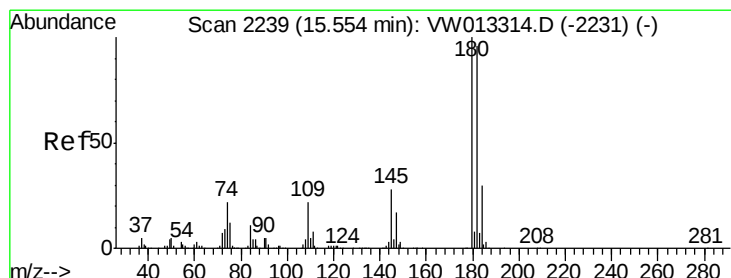
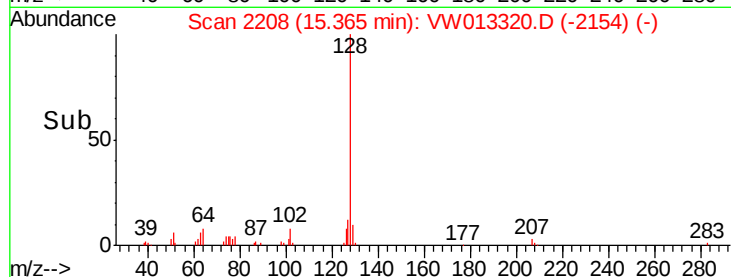
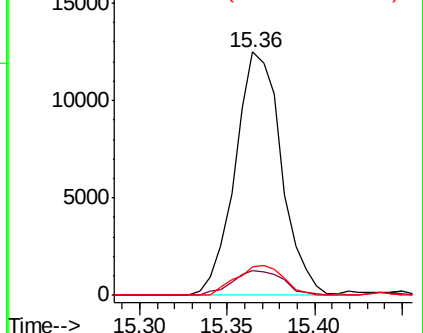
127 12.3 10.6 15.8



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: 1.842 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013320.D

Acq: 27 Sep 2019 14:00

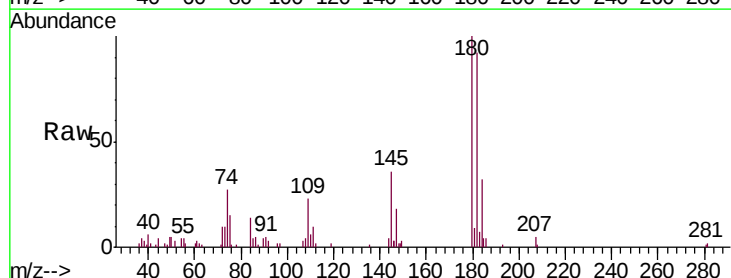
Tgt Ion:180 Resp: 12781

Ion Ratio Lower Upper

180 100

182 94.5 78.2 117.4

145 31.5 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

