

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092619\
 Data File : VW013306.D
 Acq On : 26 Sep 2019 14:52
 Operator : SY/VA
 Sample : MDL 2 PPB
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL02

Quant Time: Sep 26 19:09:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092619S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 26 12:57:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	404708	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	360603	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	176722	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	133207	27.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.40%
7) Chloroethane-d5	2.89	69	102004	26.33	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.32%
10) 1,1-Dichloroethene-d2	4.01	63	194668	20.49	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.96%
20) 2-Butanone-d5	7.07	46	104727	62.79	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	125.58%
24) Chloroform-d	7.65	84	227619	24.94	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.76%
26) 1,2-Dichloroethane-d4	8.31	65	127134	25.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.16%
29) Benzene-d6	8.27	84	508310	25.96	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.84%
33) 1,2-Dichloropropane-d6	9.27	67	149583	25.64	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.56%
37) Toluene-d8	10.32	98	473172	25.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.64%
38) trans-1,3-Dichloropropene-	10.58	79	64887	24.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.00%
39) 2-Hexanone-d5	10.93	63	79647	62.39	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	124.78%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	137991	27.85	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	111.40%
61) 1,2-Dichlorobenzene-d4	13.85	152	165552	26.22	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	104.88%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	3235	1.277 ug/L	95
3) Chloromethane	2.21	50	6789	2.000 ug/L	91
5) Vinyl chloride	2.36	62	9606	2.047 ug/L #	63
6) Bromomethane	2.78	94	6266	2.100 ug/L	96
8) Chloroethane	2.92	64	5848	2.054 ug/L	94
9) Trichlorofluoromethane	3.25	101	4702	1.616 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	10966	2.385 ug/L #	82
12) 1,1-Dichloroethene	4.03	96	9293	1.992 ug/L #	1
13) Acetone	4.13	43	7491	5.396 ug/L	91
14) Carbon disulfide	4.38	76	25141	1.898 ug/L	99
15) Methyl Acetate	4.68	43	6712	2.506 ug/L #	69
17) Methyl tert-butyl Ether	5.43	73	15972	1.979 ug/L #	75
18) trans-1,2-Dichloroethene	5.42	96	9643	1.933 ug/L	91
19) 1,1-Dichloroethane	6.21	63	16989	1.942 ug/L	98
21) 2-Butanone	7.18	43	10327	5.165 ug/L	84
22) cis-1,2-Dichloroethene	7.17	96	10693	1.967 ug/L	98
23) Bromochloromethane	7.51	128	5063	2.070 ug/L	77

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

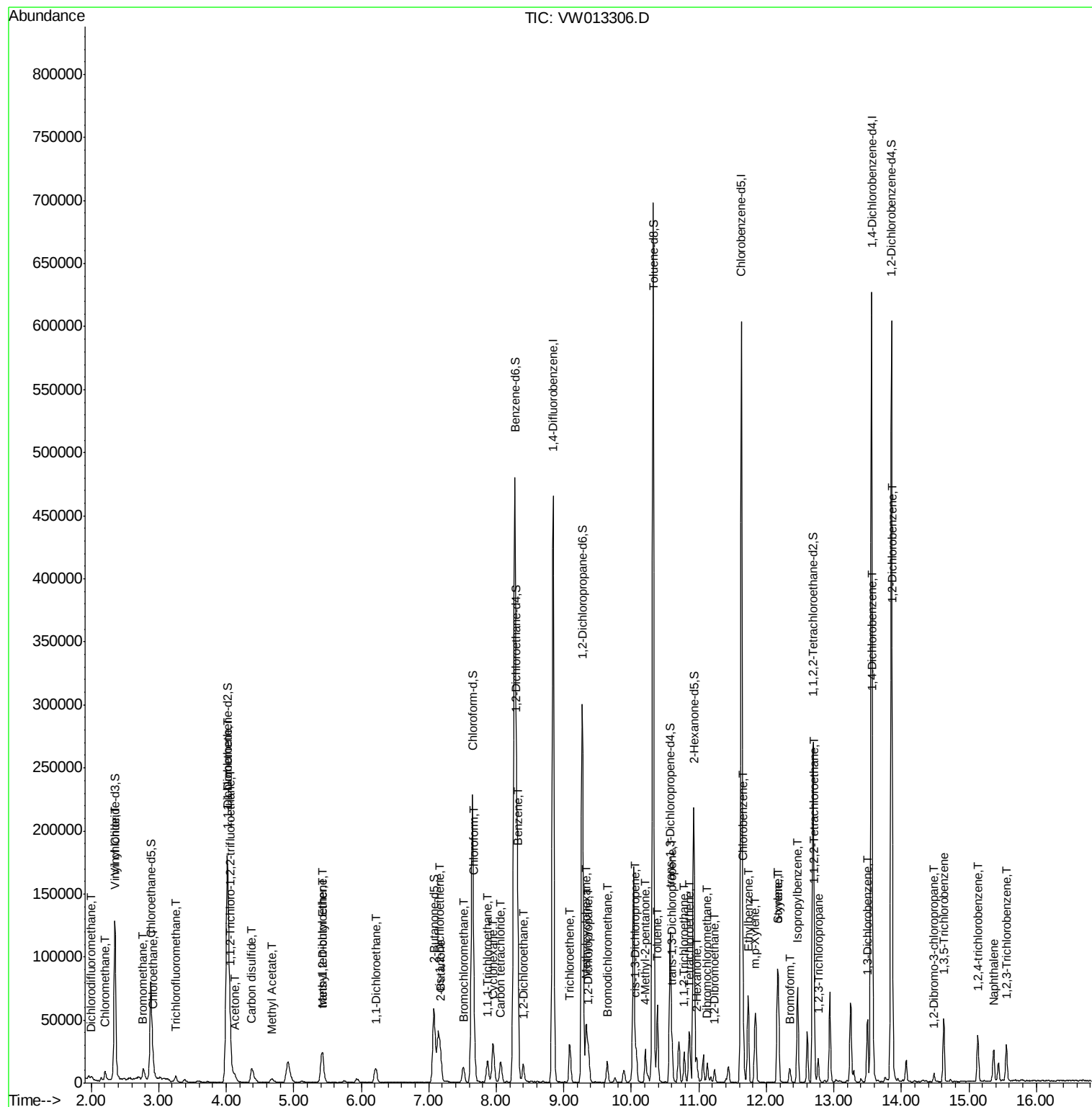
25) Chloroform	7.67	83	17712	2.060	ug/L	94
27) 1,2-Dichloroethane	8.40	62	11891	2.112	ug/L	98
30) Cyclohexane	7.95	56	17172	1.983	ug/L #	91
31) 1,1,1-Trichloroethane	7.87	97	13651	1.972	ug/L	98
32) Carbon tetrachloride	8.07	117	12445	1.886	ug/L	100
34) Benzene	8.32	78	44462	2.199	ug/L	100
35) Trichloroethene	9.09	95	10080	1.898	ug/L	92
36) Methylcyclohexane	9.33	83	18196	1.923	ug/L	97
40) 1,2-Dichloropropane	9.37	63	9696	1.949	ug/L	97
41) Bromodichloromethane	9.65	83	11794	1.933	ug/L	91
42) cis-1,3-Dichloropropene	10.07	75	15276	1.923	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	17534	4.605	ug/L #	94
44) Toluene	10.39	91	45785	2.080	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	15301	2.396	ug/L	91
46) 1,1,2-Trichloroethane	10.79	97	7657	1.965	ug/L	97
47) Tetrachloroethene	10.86	164	9819	2.055	ug/L	93
49) 2-Hexanone	10.97	43	12057	4.405	ug/L	98
50) Dibromochloromethane	11.13	129	8263	1.849	ug/L	95
51) 1,2-Dibromoethane	11.24	107	7482	1.954	ug/L #	94
52) Chlorobenzene	11.66	112	27806	2.005	ug/L	94
53) Ethylbenzene	11.73	91	46967	1.925	ug/L	93
54) m,p-Xylene	11.84	106	19179	2.047	ug/L	98
55) o-xylene	12.16	106	16911	1.913	ug/L	94
56) Styrene	12.18	104	27915	1.842	ug/L	98
57) Isopropylbenzene	12.46	105	45564	1.906	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	11340	2.362	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	7916	2.210	ug/L	94
62) Bromoform	12.35	173	5146	1.841	ug/L	93
63) 1,3-Dichlorobenzene	13.50	146	22054	2.028	ug/L	91
64) 1,4-Dichlorobenzene	13.58	146	22427	2.041	ug/L	94
65) 1,2-Dichlorobenzene	13.87	146	20509	2.073	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	1773	2.275	ug/L #	86
67) 1,3,5-Trichlorobenzene	14.63	180	16037	1.915	ug/L	97
68) 1,2,4-trichlorobenzene	15.13	180	11925	1.784	ug/L	98
69) Naphthalene	15.37	128	21898	1.715	ug/L	98
70) 1,2,3-Trichlorobenzene	15.55	180	11519	1.895	ug/L	98

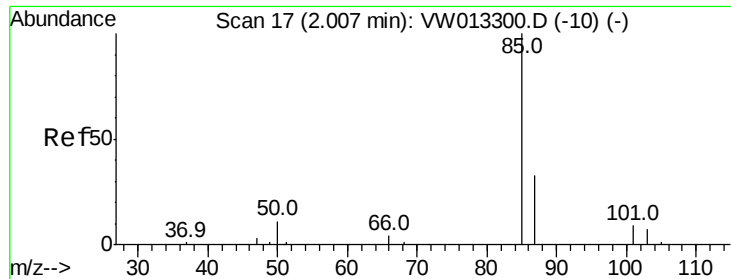
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.277 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

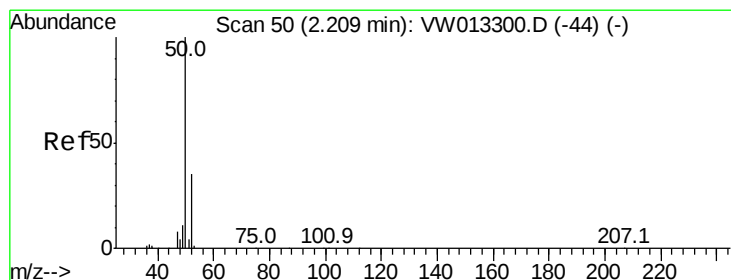
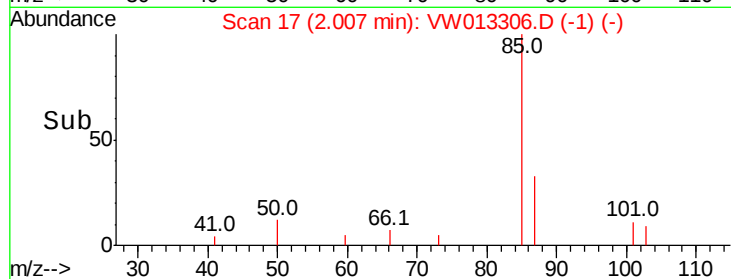
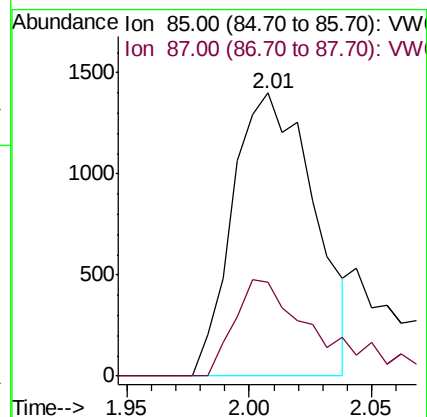
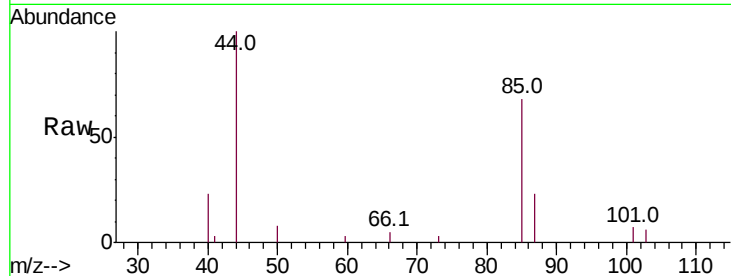
MDL02

Tot Ion: 85 Resp: 3235

Ion Ratio Lower Upper

85 100

87 33.1 21.3 39.6



#3

Chloromethane

Concen: 2.000 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013306.D

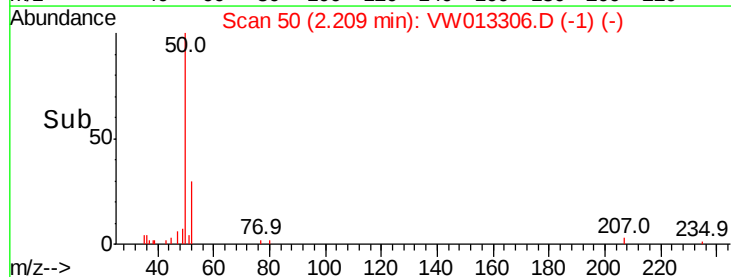
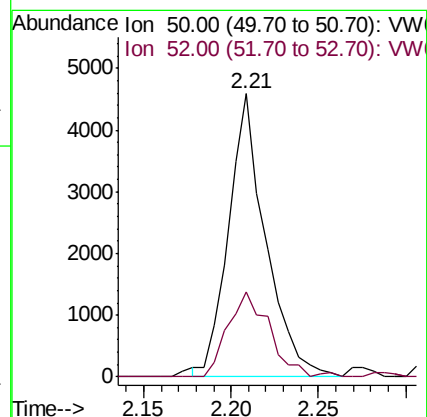
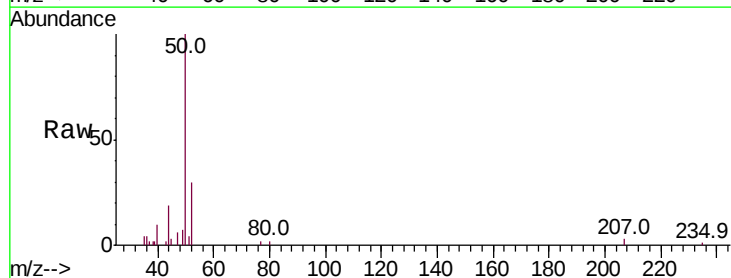
Acq: 26 Sep 2019 14:52

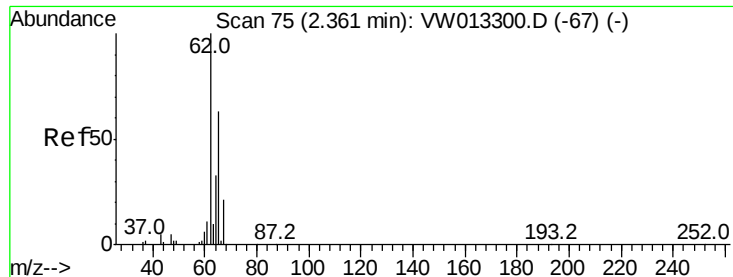
Tgt Ion: 50 Resp: 6789

Ion Ratio Lower Upper

50 100

52 29.9 24.4 45.4





#5

Vinyl chloride

Concen: 2.047 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

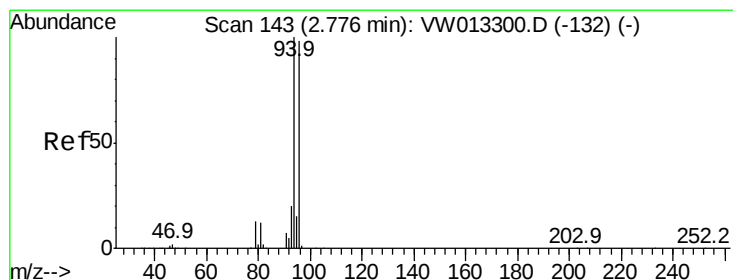
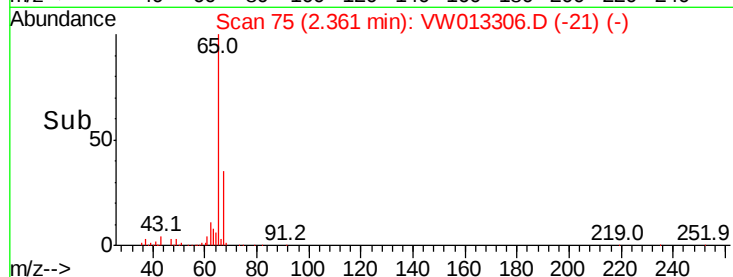
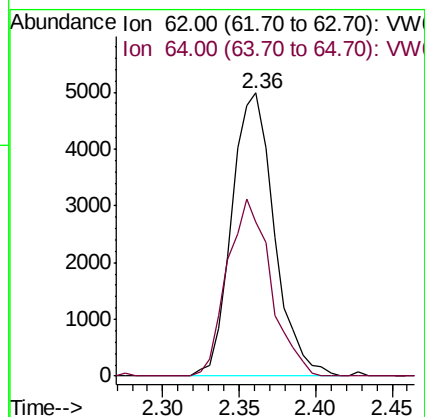
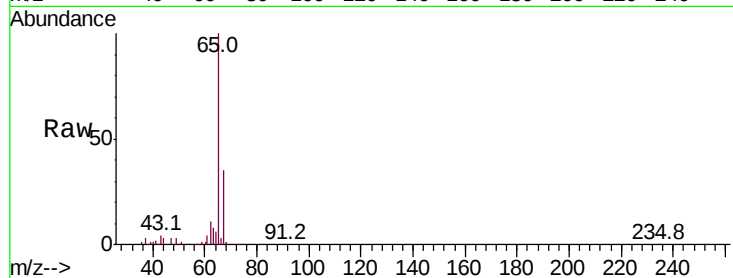
MDL02

Tot Ion: 62 Resp: 9606

Ion Ratio Lower Upper

62 100

64 54.3 23.2 43.0#



#6

Bromomethane

Concen: 2.100 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW013306.D

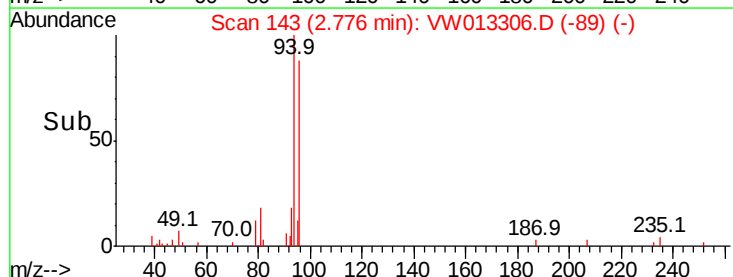
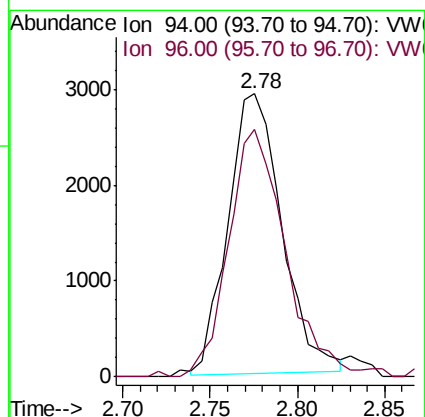
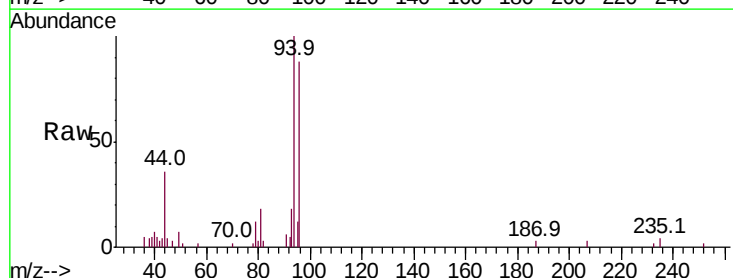
Acq: 26 Sep 2019 14:52

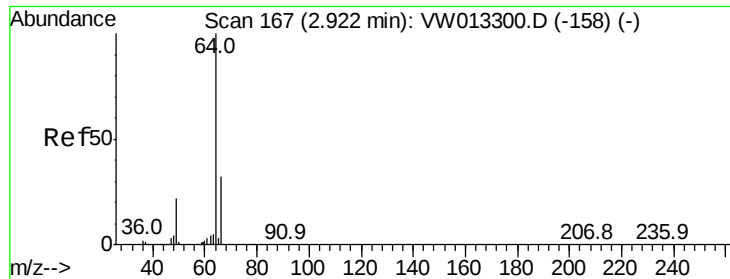
Tgt Ion: 94 Resp: 6266

Ion Ratio Lower Upper

94 100

96 92.9 9.7 184.3





#8

Chloroethane

Concen: 2.054 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

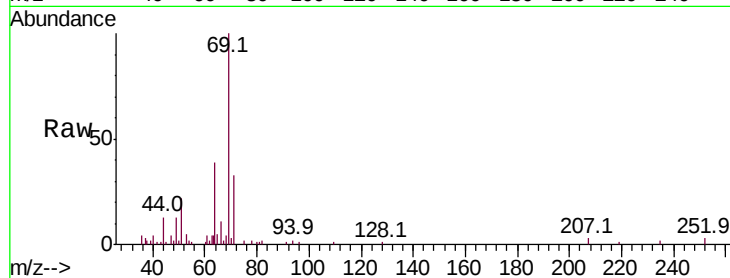
MDL02

Tot Ion: 64 Resp: 5848

Ion Ratio Lower Upper

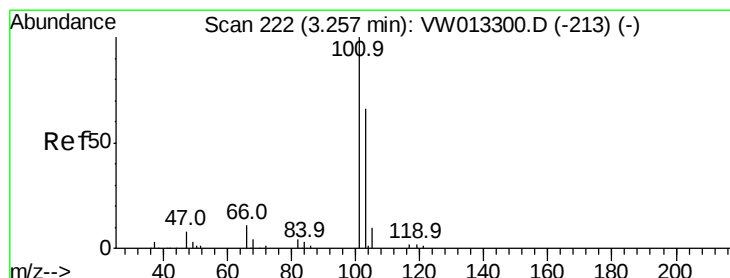
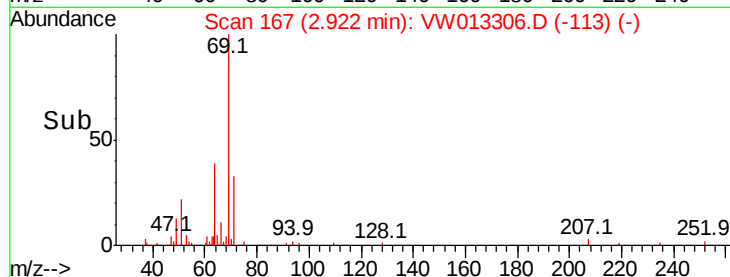
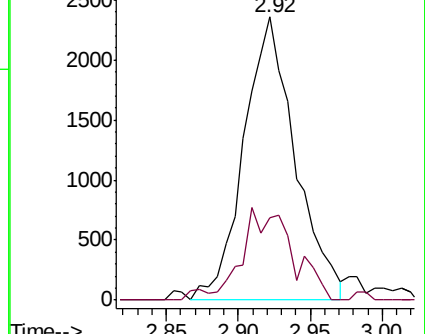
64 100

66 29.1 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 1.616 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW013306.D

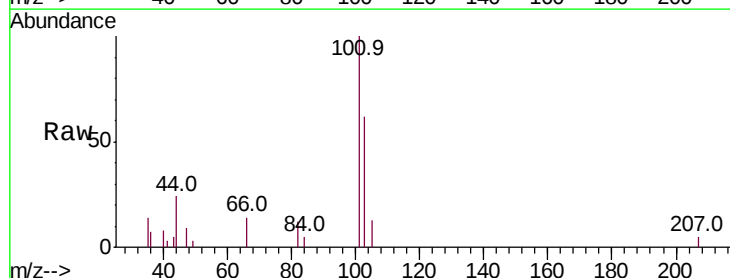
Acq: 26 Sep 2019 14:52

Tgt Ion: 101 Resp: 4702

Ion Ratio Lower Upper

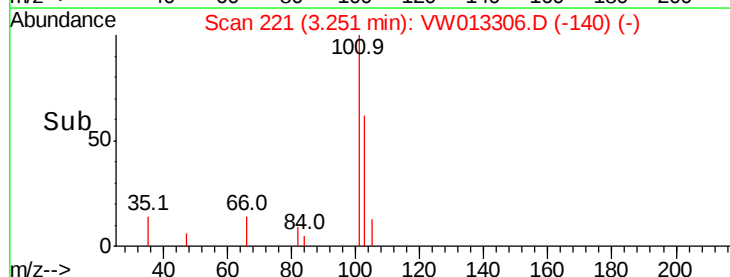
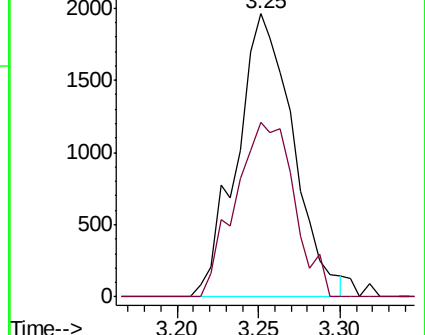
101 100

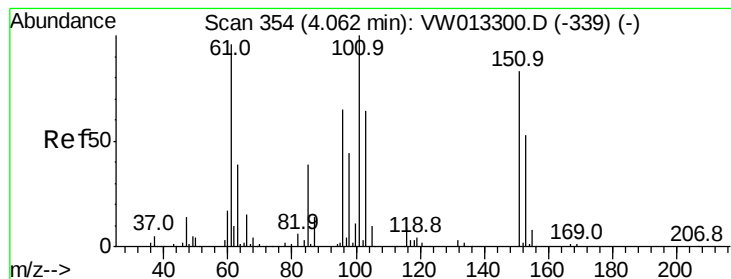
103 64.7 45.2 84.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 2.385 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

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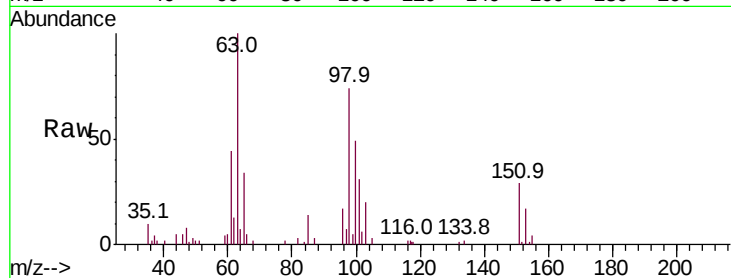
Tot Ion:101 Resp: 10966

Ion Ratio Lower Upper

101 100

85 20.8 31.8 47.8#

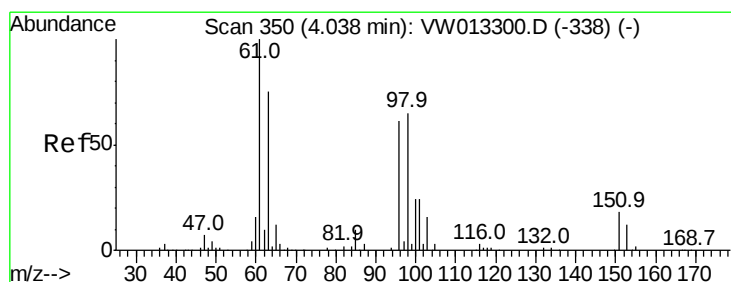
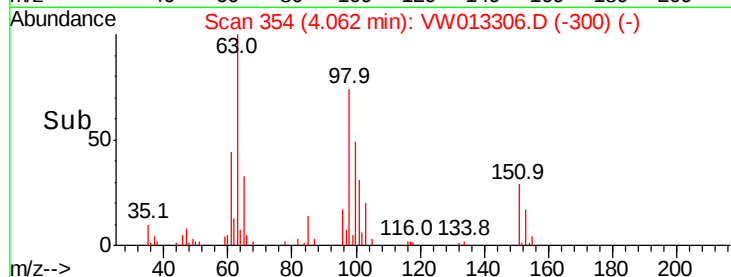
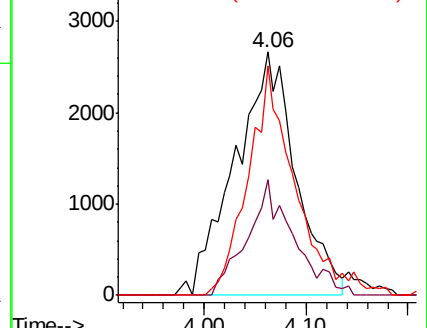
151 71.6 65.4 98.0



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: 1.992 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

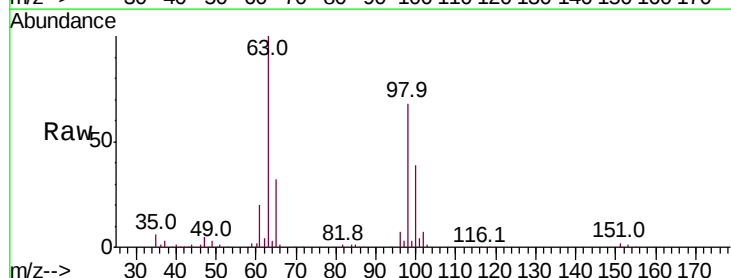
Tgt Ion: 96 Resp: 9293

Ion Ratio Lower Upper

96 100

61 290.5 115.9 215.3#

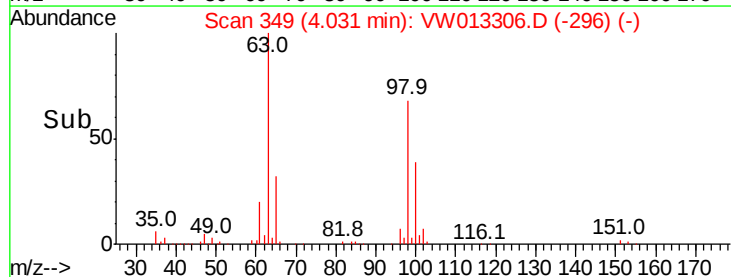
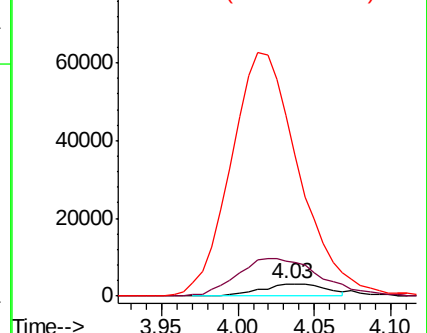
63 1483.2 88.9 165.1#

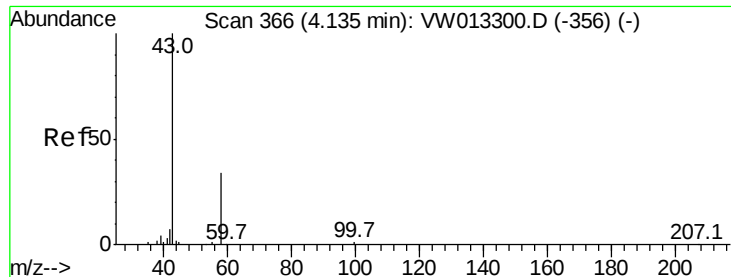


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 5.396 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

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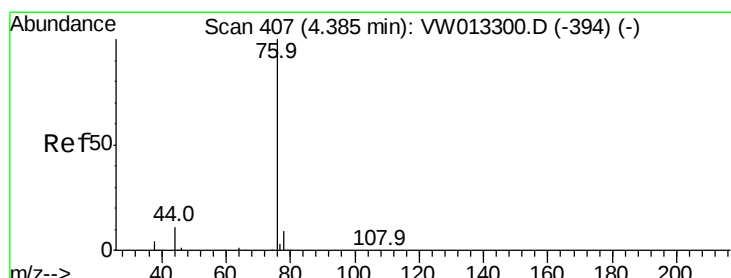
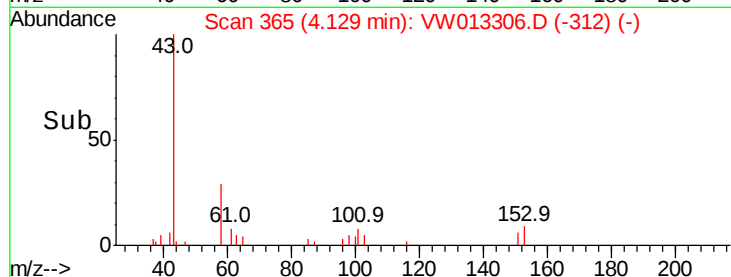
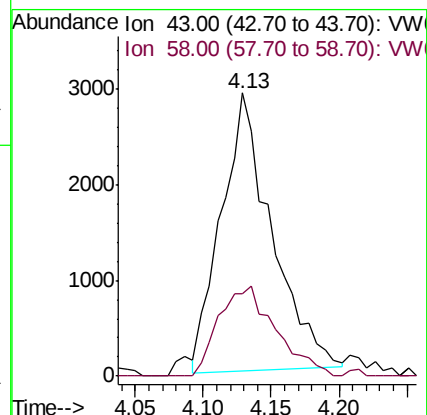
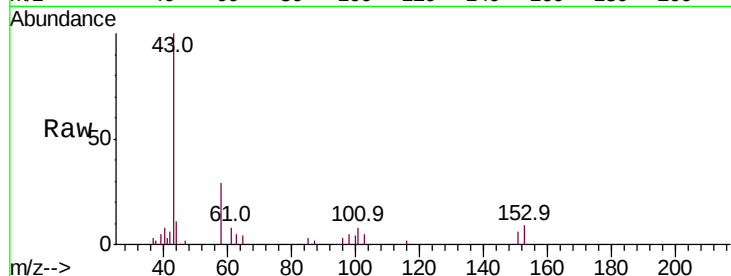
MDL02

Tot Ion: 43 Resp: 7491

Ion Ratio Lower Upper

43 100

58 36.5 0.0 63.2



#14

Carbon disulfide

Concen: 1.898 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW013306.D

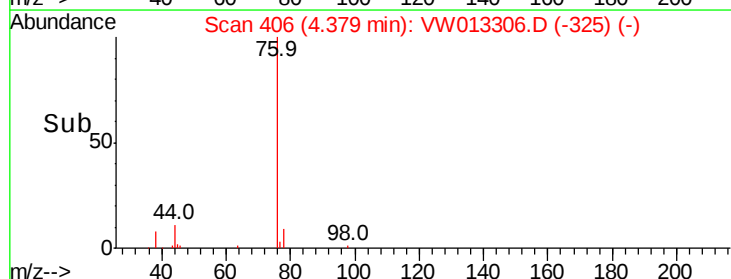
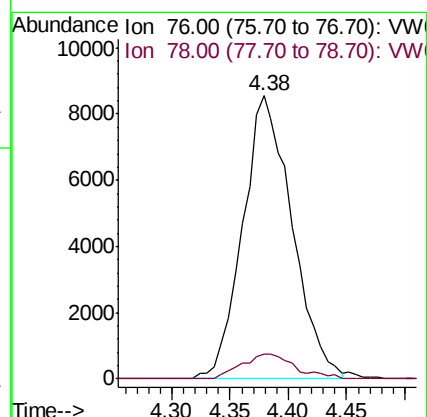
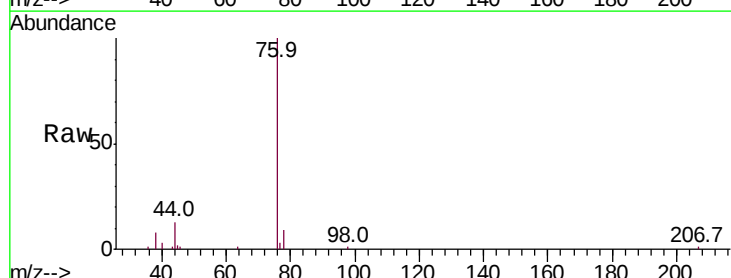
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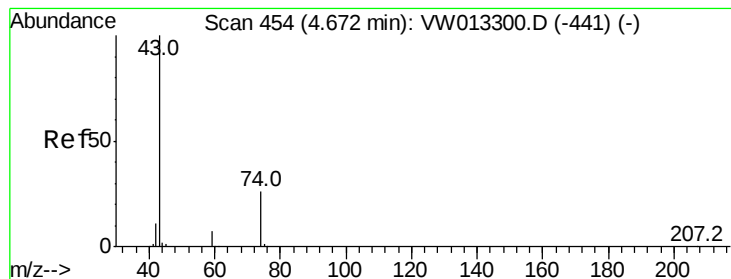
Tgt Ion: 76 Resp: 25141

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8





#15

Methyl Acetate

Concen: 2.506 ug/L

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

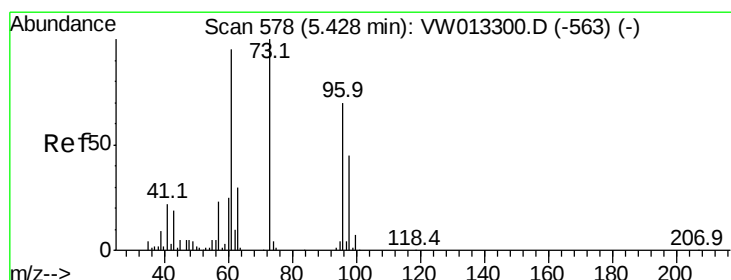
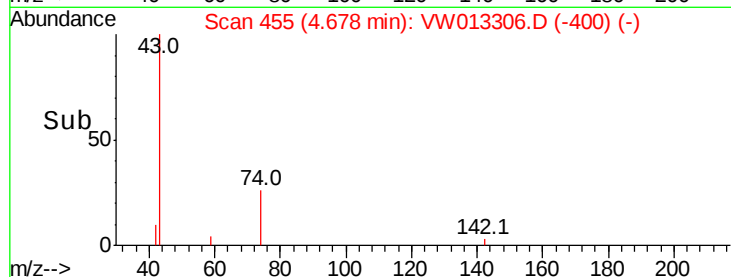
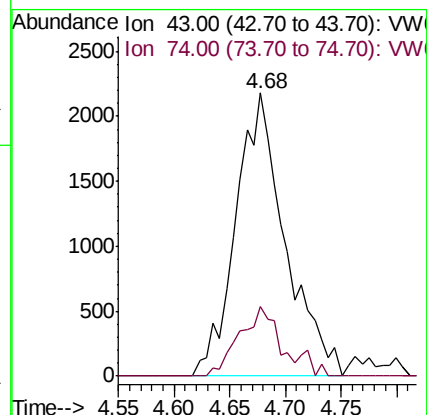
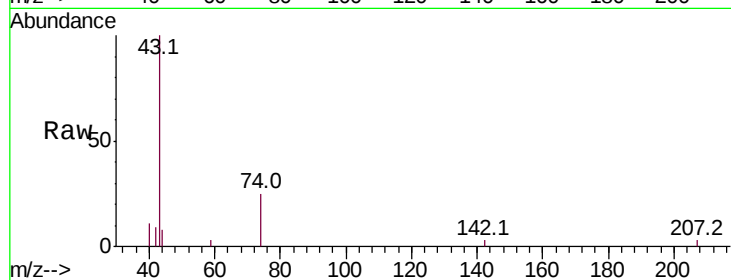
MDL02

Tot Ion: 43 Resp: 6712

Ion Ratio Lower Upper

43 100

74 8.2 18.7 28.1#



#17

Methyl tert-butyl Ether

Concen: 1.979 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

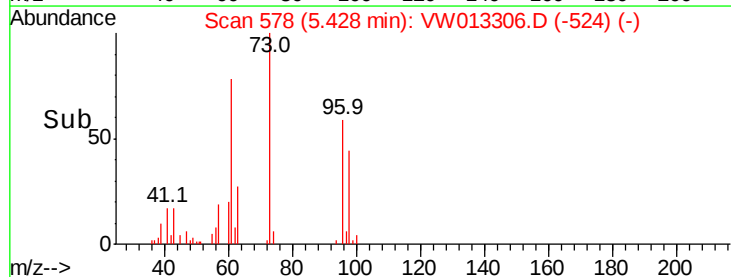
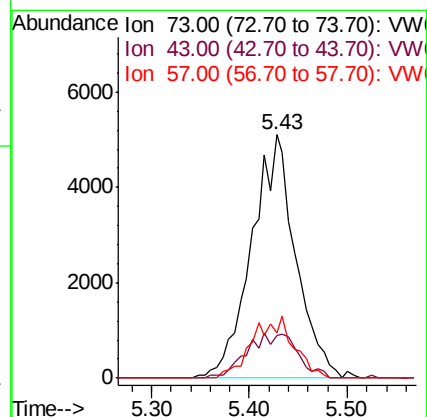
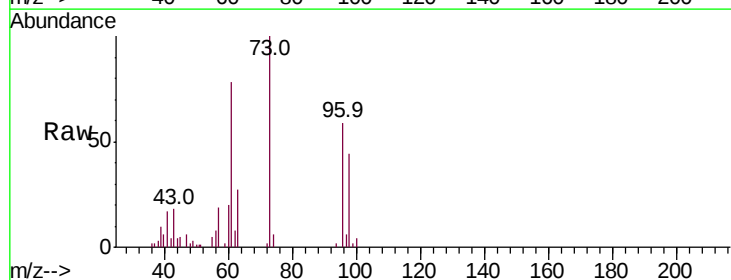
Tgt Ion: 73 Resp: 15972

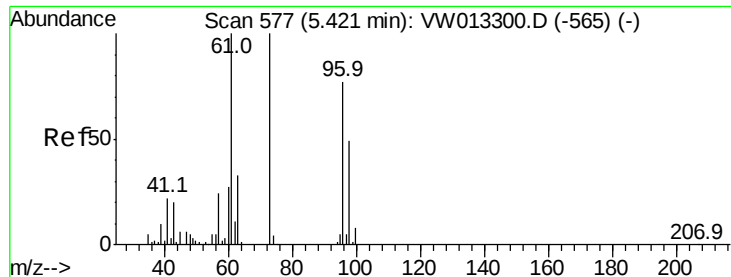
Ion Ratio Lower Upper

73 100

43 9.1 15.3 22.9#

57 9.3 18.2 27.4#





#18

trans-1,2-Dichloroethene

Concen: 1.933 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL02

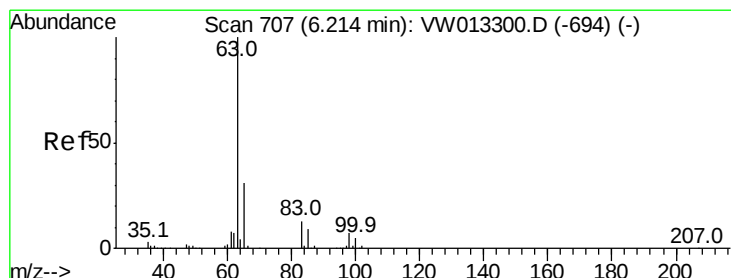
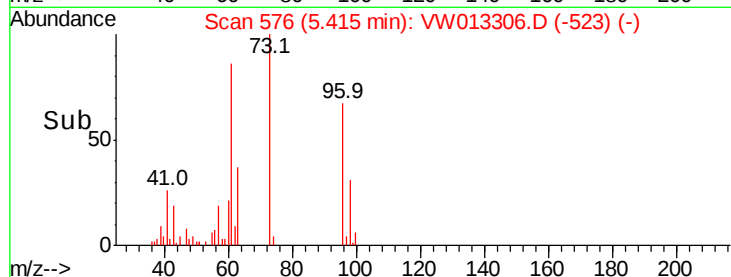
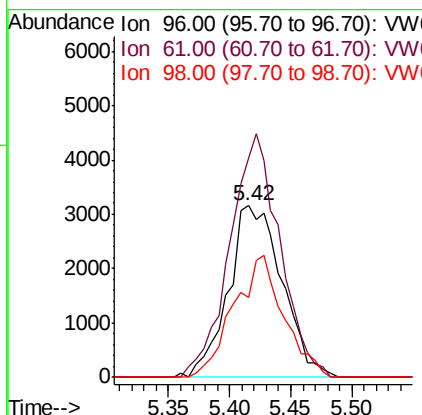
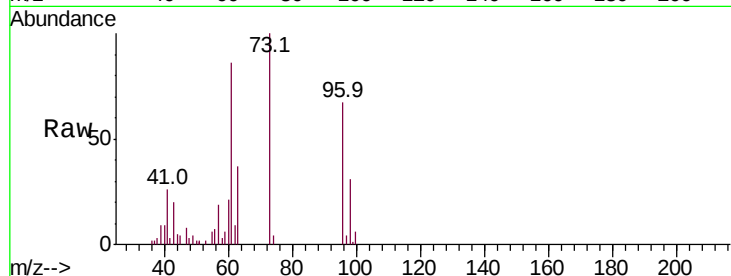
Tot Ion: 96 Resp: 9643

Ion Ratio Lower Upper

96 100

61 127.9 91.2 169.4

98 46.1 44.7 82.9



#19

1,1-Dichloroethane

Concen: 1.942 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

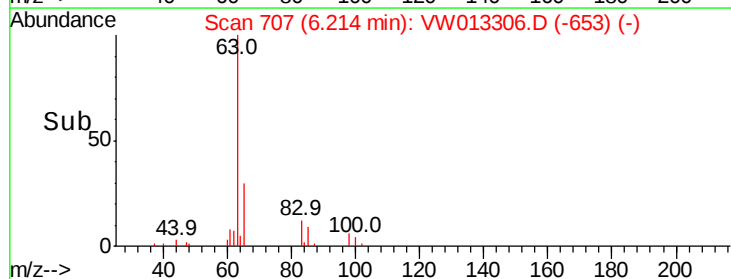
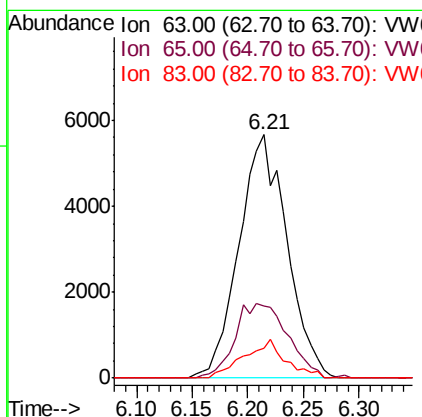
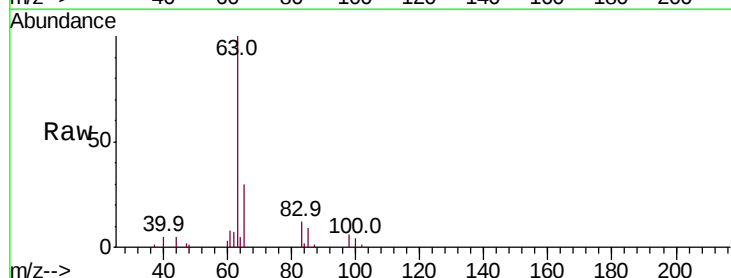
Tgt Ion: 63 Resp: 16989

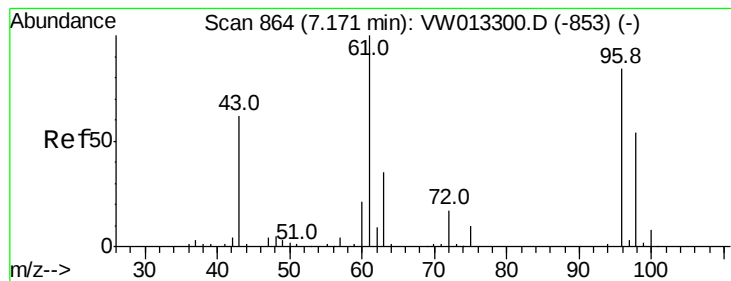
Ion Ratio Lower Upper

63 100

65 29.8 21.8 40.4

83 12.3 9.3 17.3





#21

2-Butanone

Concen: 5.165 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

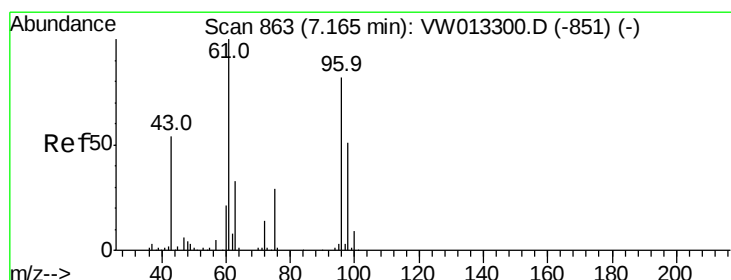
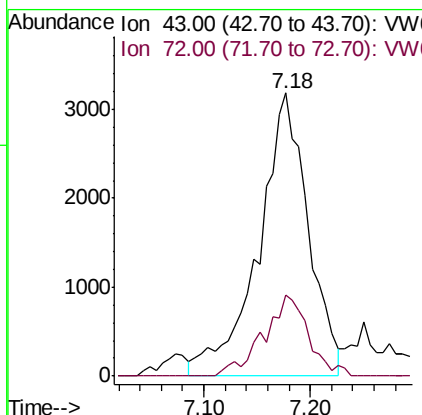
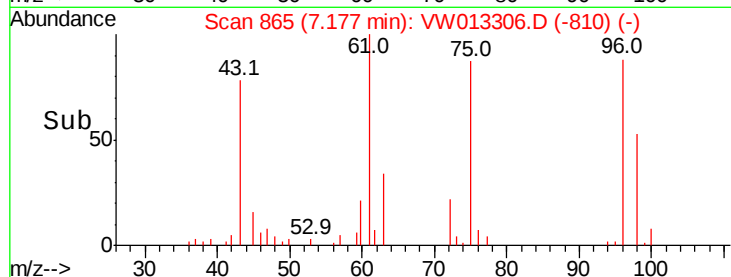
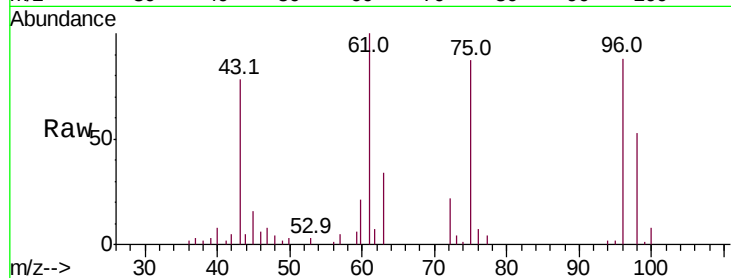
Instrument :
MSVOA_W
ClientSampled :
MDL02

Tot Ion: 43 Resp: 10327

Ion Ratio Lower Upper

43 100

72 18.4 13.2 39.6



#22

cis-1,2-Dichloroethene

Concen: 1.967 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

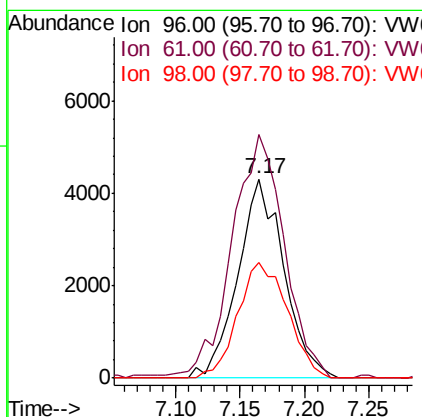
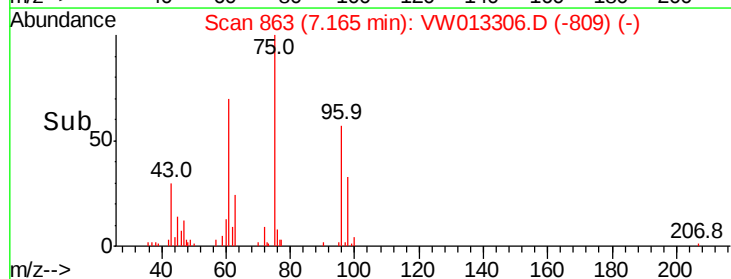
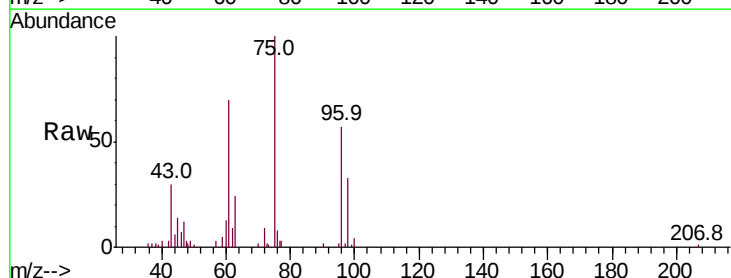
Tgt Ion: 96 Resp: 10693

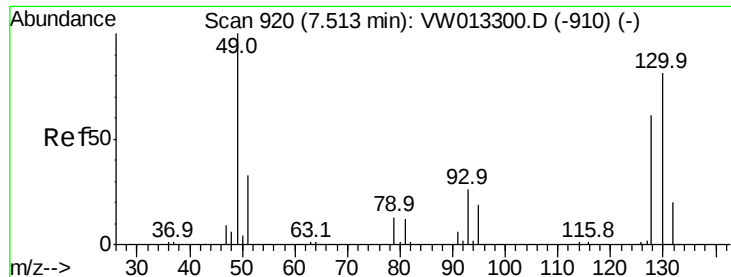
Ion Ratio Lower Upper

96 100

61 122.2 86.0 159.6

98 58.1 43.5 80.9





#23

Bromochloromethane

Concen: 2.070 ug/L

RT: 7.51 min Scan# 919

Delta R.T. -0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

Tot Ion:128 Resp: 5063

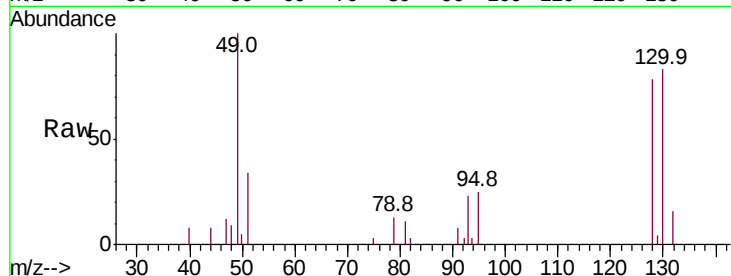
Ion Ratio Lower Upper

128 100

49 128.1 114.6 212.8

130 106.6 92.6 172.0

51 43.3 42.7 64.1

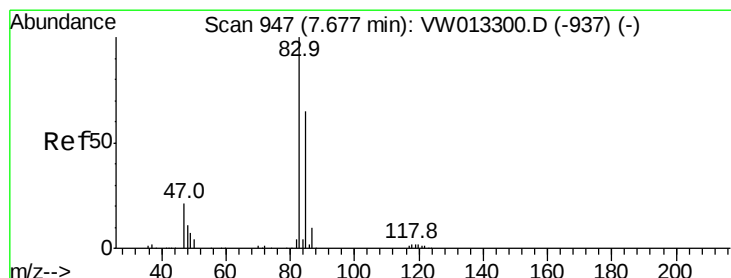
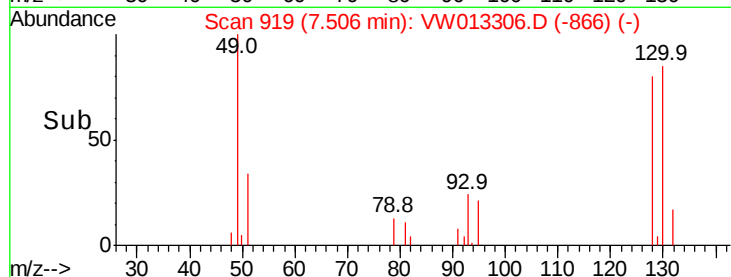
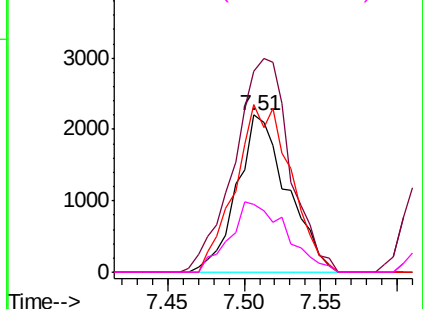


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 2.060 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW013306.D

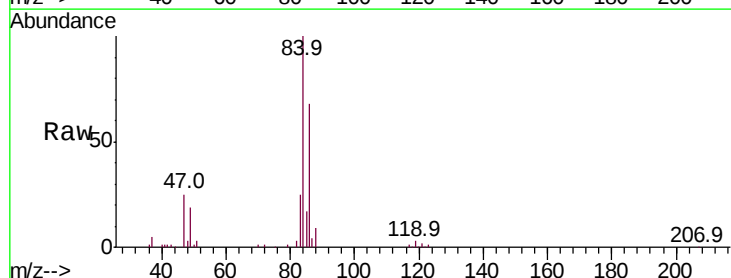
Acq: 26 Sep 2019 14:52

Tgt Ion: 83 Resp: 17712

Ion Ratio Lower Upper

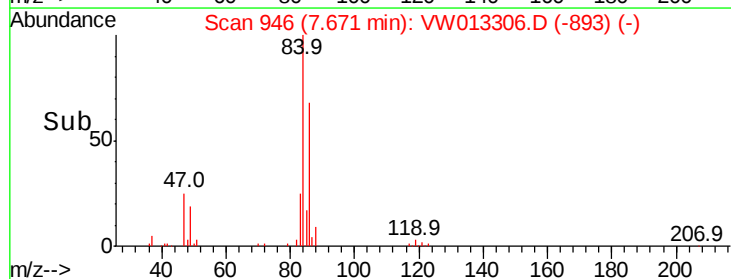
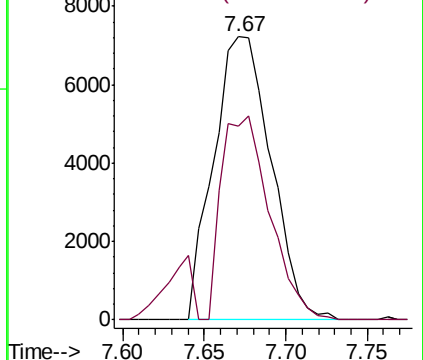
83 100

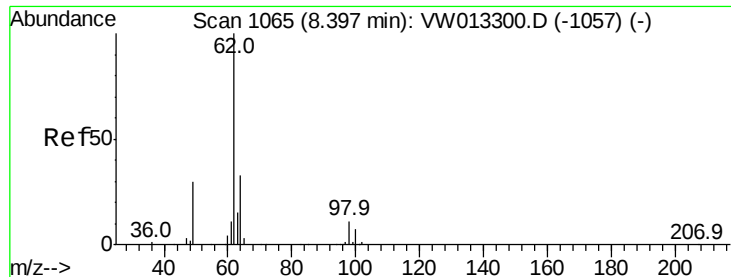
85 61.0 45.9 85.3



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 2.112 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

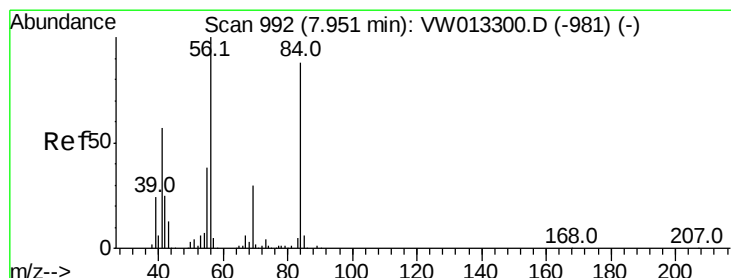
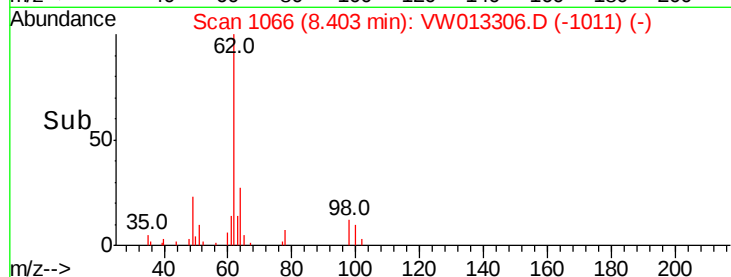
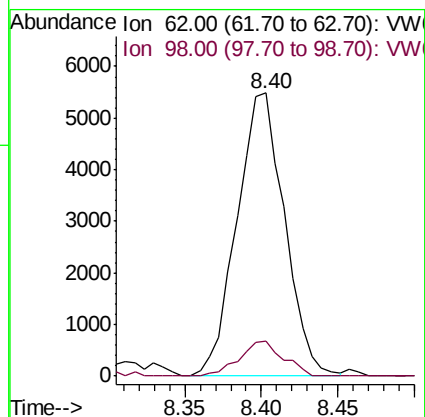
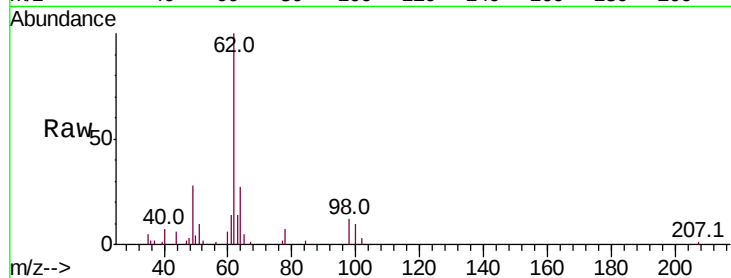
MDL02

Tot Ion: 62 Resp: 11891

Ion Ratio Lower Upper

62 100

98 12.3 9.0 13.6



#30

Cyclohexane

Concen: 1.983 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

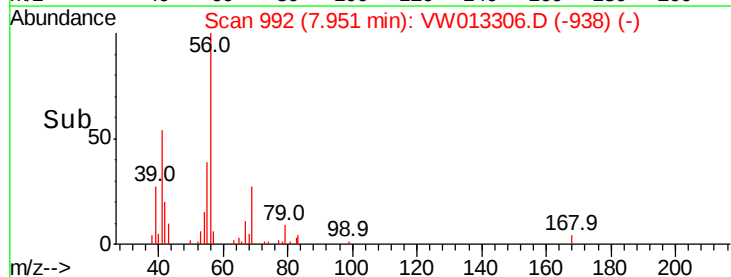
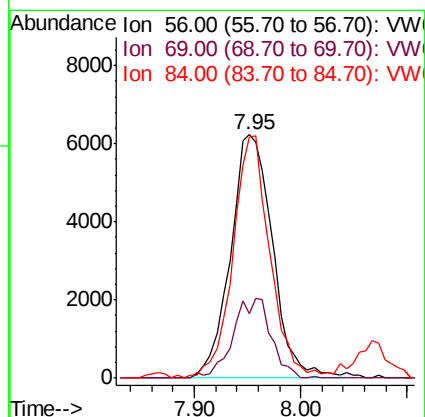
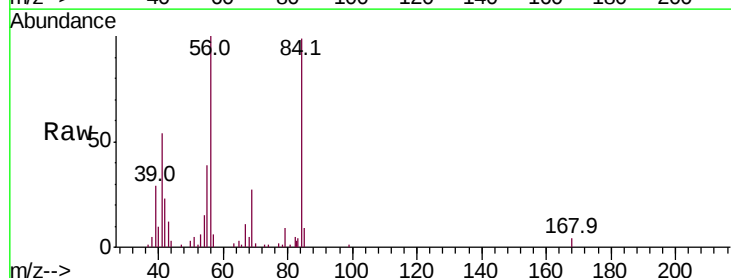
Tgt Ion: 56 Resp: 17172

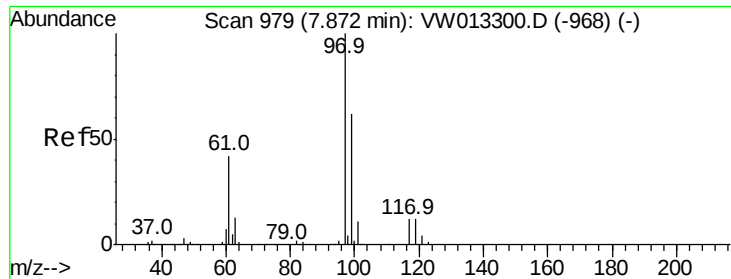
Ion Ratio Lower Upper

56 100

69 14.8 24.6 37.0#

84 88.4 69.5 104.3





#31

1,1,1-Trichloroethane

Concen: 1.972 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL02

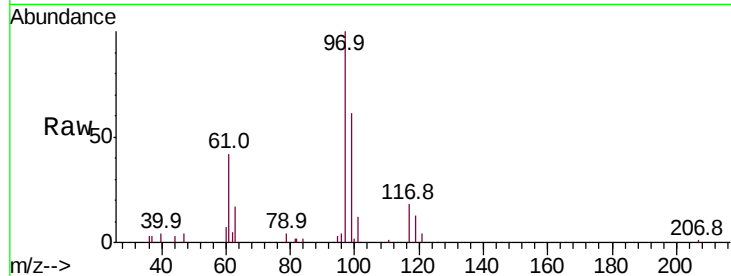
Tot Ion: 97 Resp: 13651

Ion Ratio Lower Upper

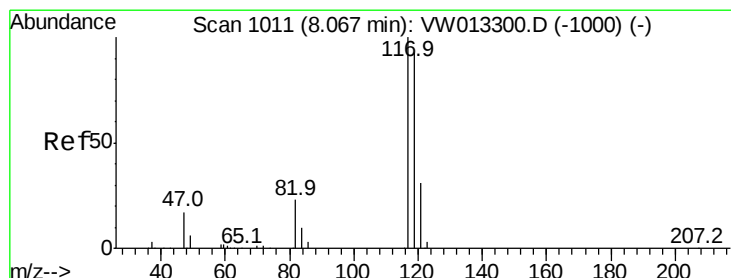
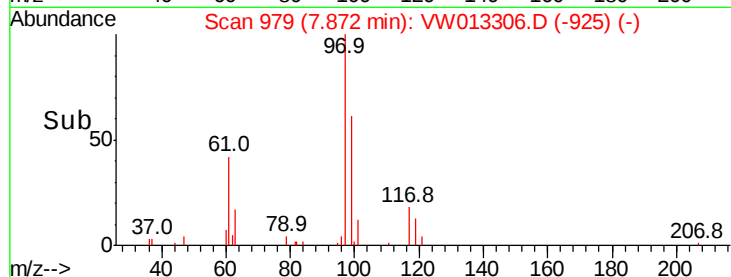
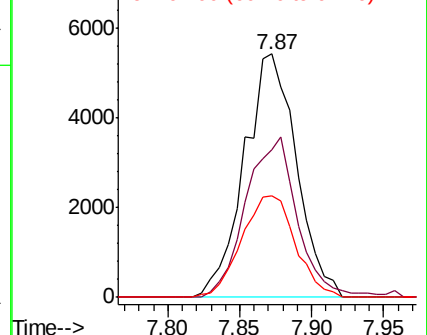
97 100

99 65.2 50.6 75.8

61 43.1 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: 1.886 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013306.D

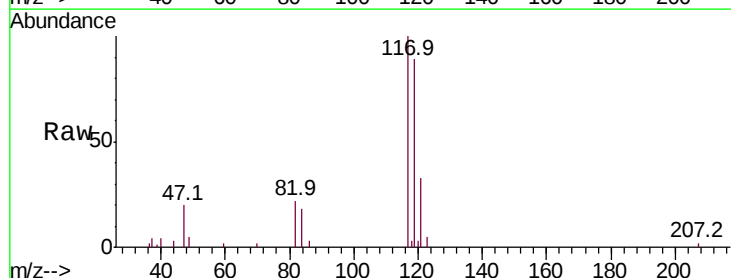
Acq: 26 Sep 2019 14:52

Tgt Ion: 117 Resp: 12445

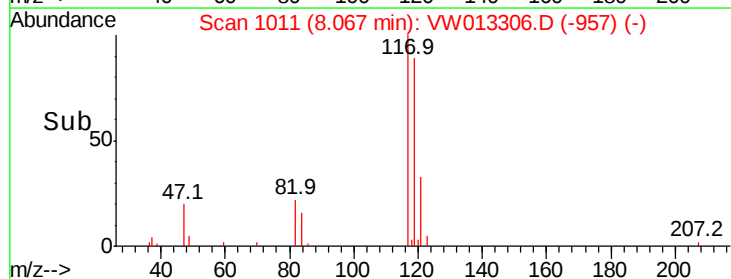
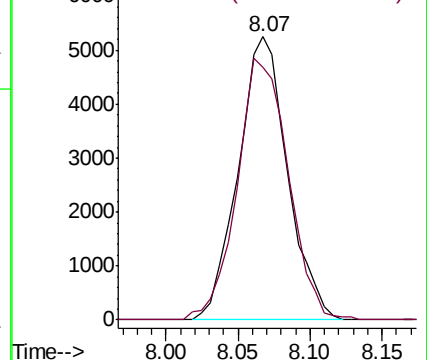
Ion Ratio Lower Upper

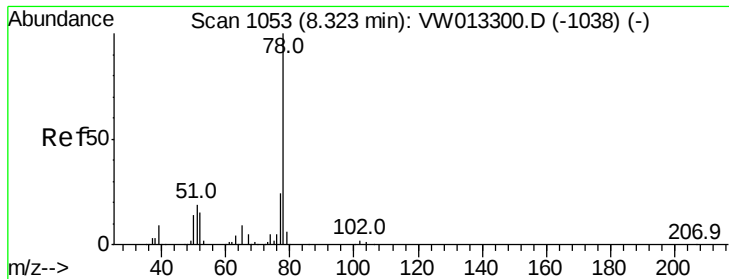
117 100

119 96.0 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: 2.199 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

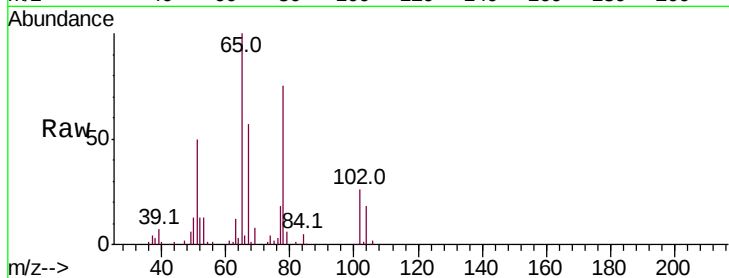
Instrument :

MSVOA_W

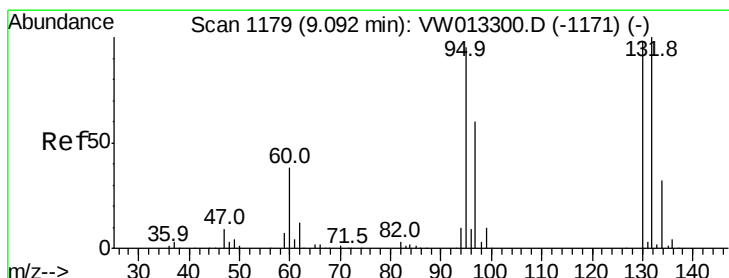
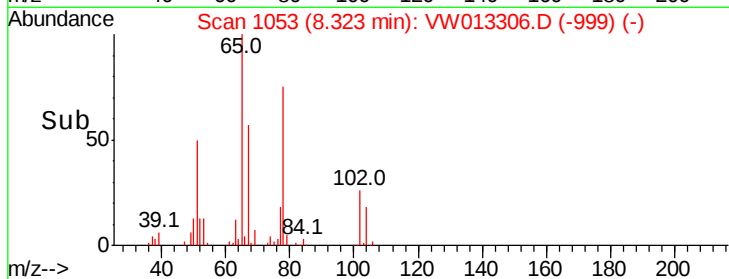
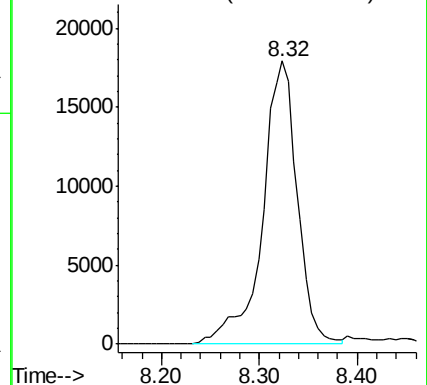
ClientSampleId :

MDL02

Tgt Ion: 78 Resp: 44462



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 1.898 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Tgt Ion: 95 Resp: 10080

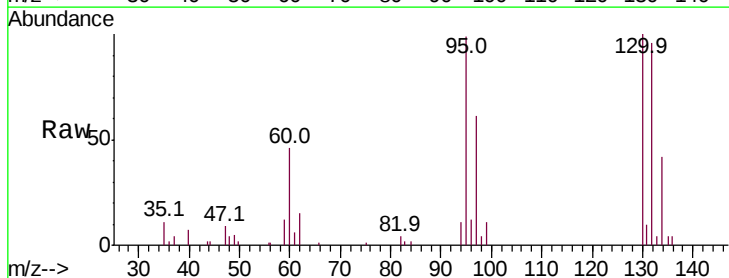
Ion Ratio Lower Upper

95 100

97 69.2 44.3 82.3

132 109.5 71.7 133.3

130 115.1 74.1 137.7

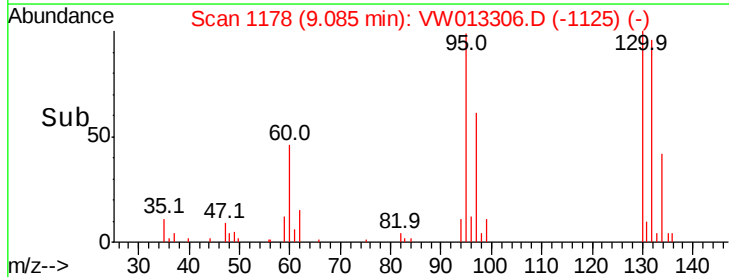
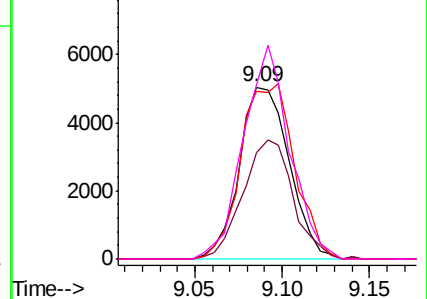


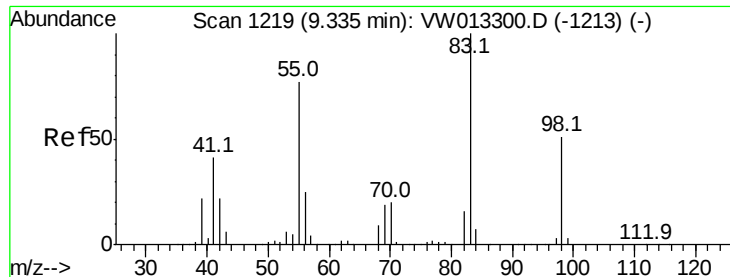
Abundance Ion 95.00 (94.70 to 95.70): VW

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

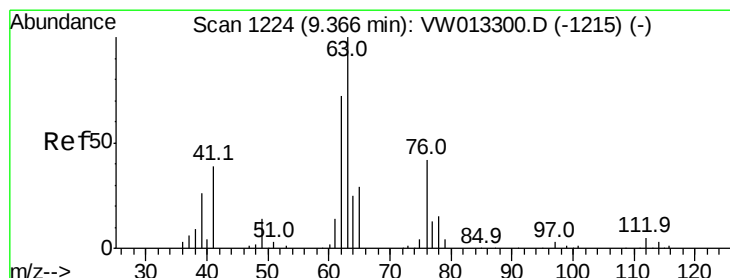
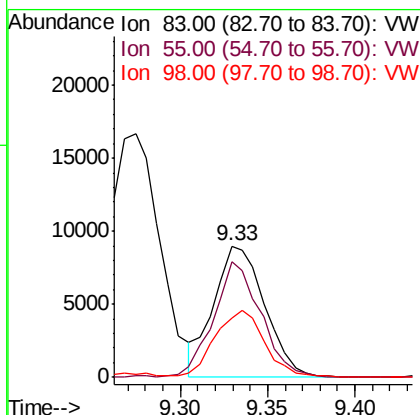
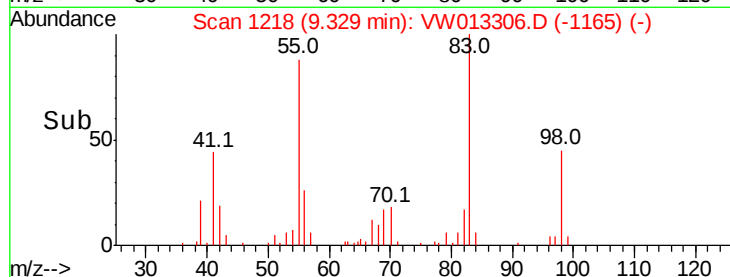
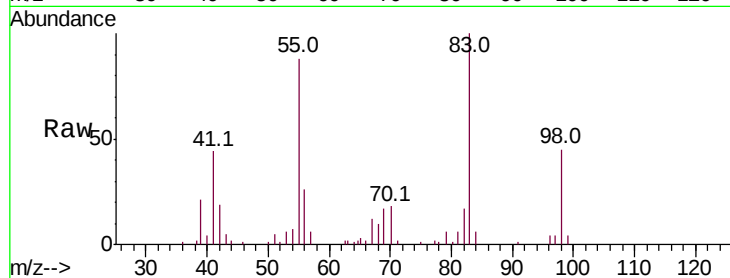




#36
Methvlcvclohexane
Concen: 1.923 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

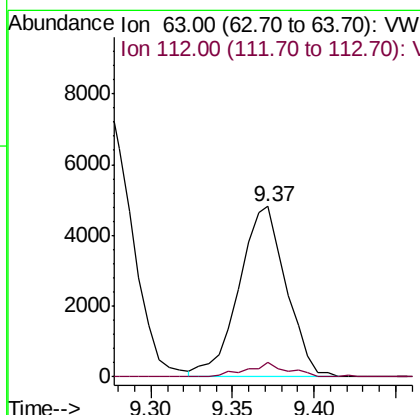
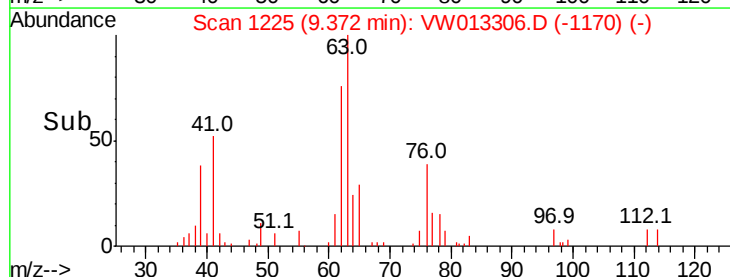
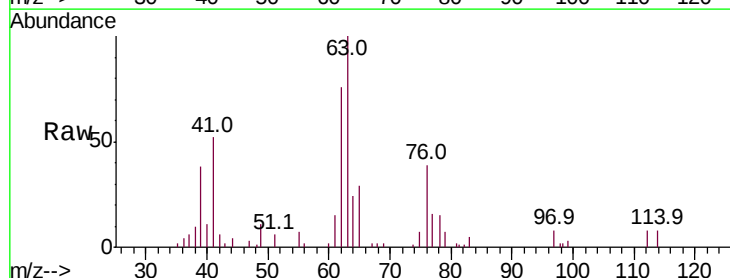
Instrument :
MSVOA_W
ClientSampled :
MDL02

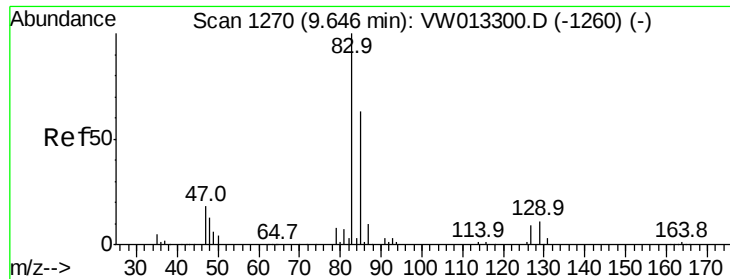
Tot Ion: 83 Resp: 18196
Ion Ratio Lower Upper
83 100
55 81.6 61.8 92.6
98 49.7 39.6 59.4



#40
1,2-Dichloropropane
Concen: 1.949 ug/L
RT: 9.37 min Scan# 1225
Delta R.T. 0.01 min
Lab File: VW013306.D
Acq: 26 Sep 2019 14:52

Tgt Ion: 63 Resp: 9696
Ion Ratio Lower Upper
63 100
112 6.0 4.1 6.1





#41

Bromodichloromethane

Concen: 1.933 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

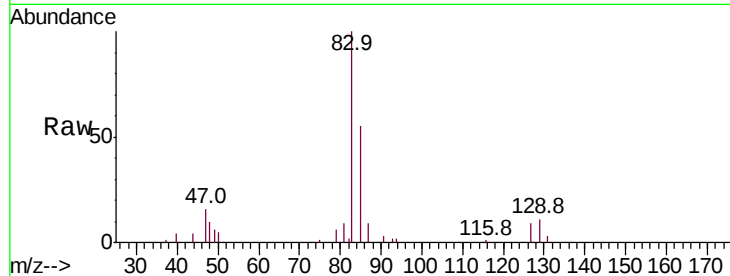
Tot Ion: 83 Resp: 11794

Ion Ratio Lower Upper

83 100

85 55.2 43.8 81.4

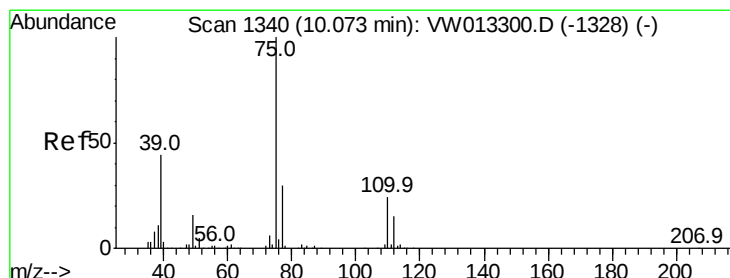
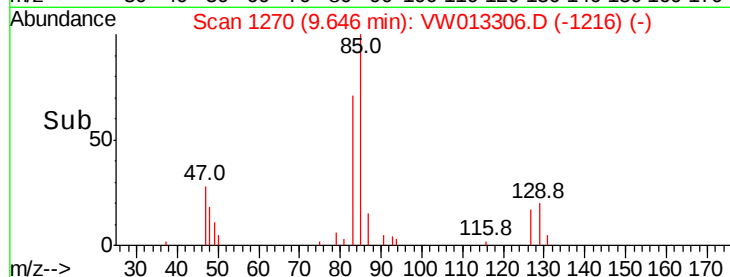
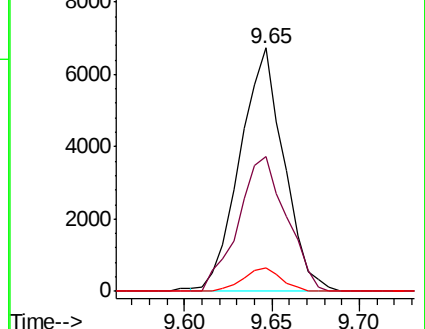
127 9.4 7.0 10.6



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): VW



#42

cis-1,3-Dichloropropene

Concen: 1.923 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW013306.D

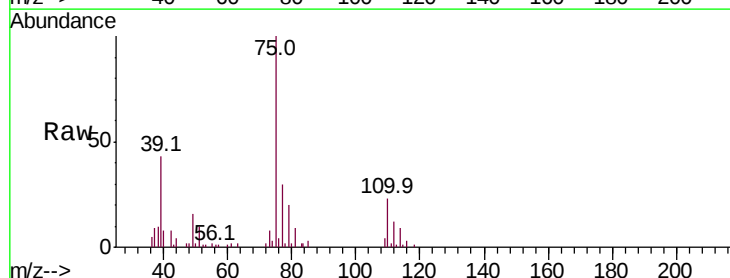
Acq: 26 Sep 2019 14:52

Tgt Ion: 75 Resp: 15276

Ion Ratio Lower Upper

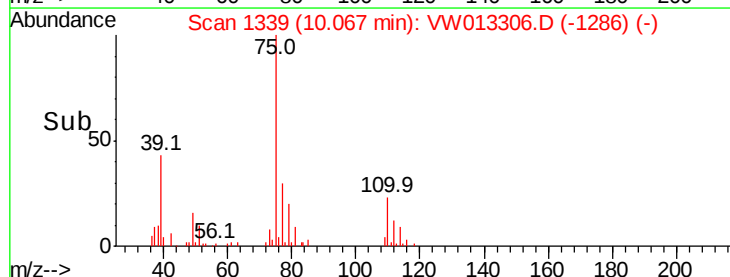
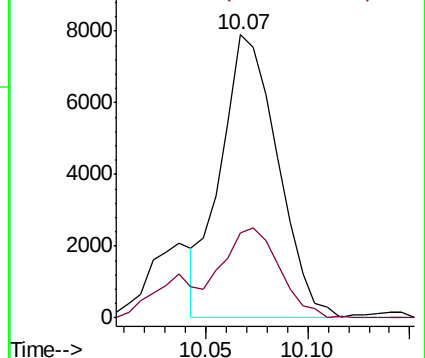
75 100

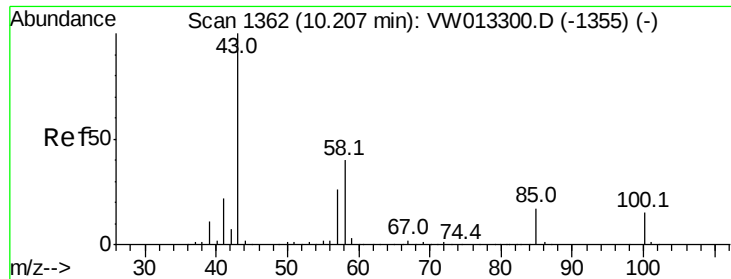
77 30.2 21.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#43

4-Methyl-2-pentanone

Concen: 4.605 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL02

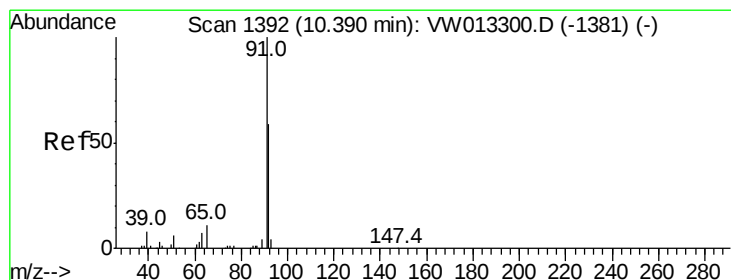
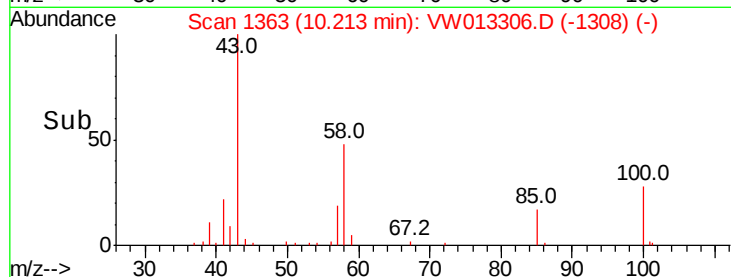
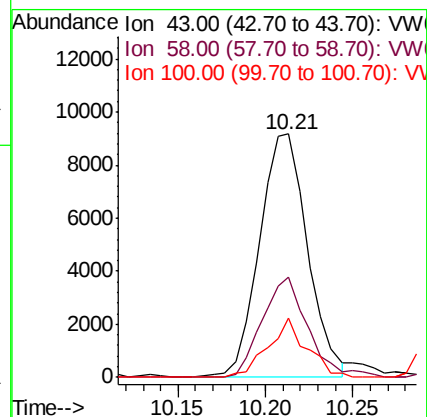
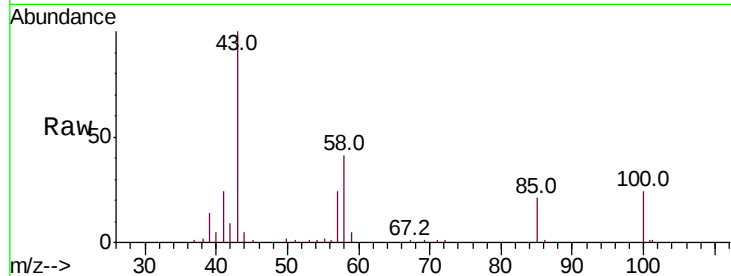
Tot Ion: 43 Resp: 17534

Ion Ratio Lower Upper

43 100

58 37.9 32.7 49.1

100 19.5 12.9 19.3#



#44

Toluene

Concen: 2.080 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW013306.D

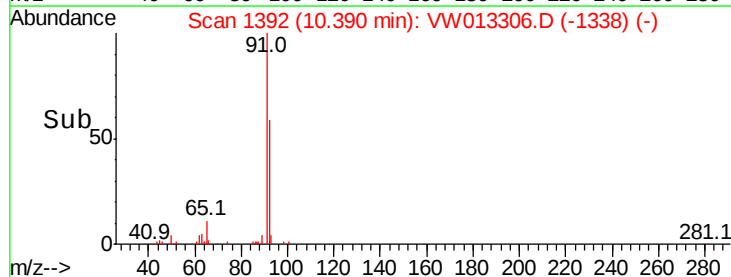
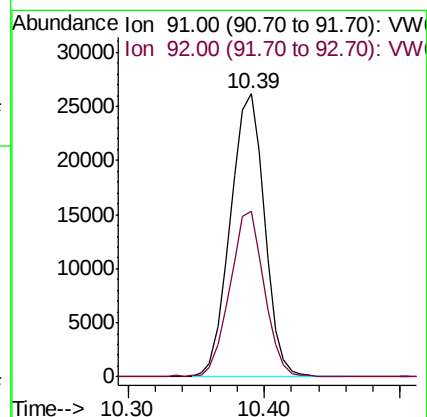
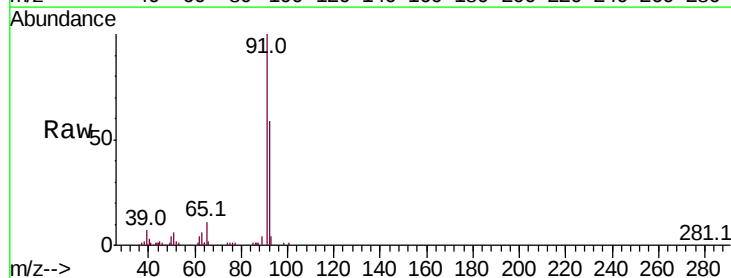
Acq: 26 Sep 2019 14:52

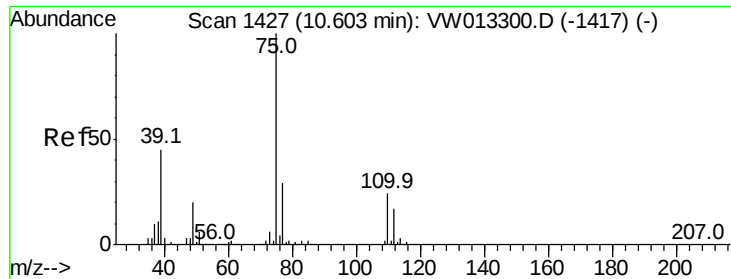
Tgt Ion: 91 Resp: 45785

Ion Ratio Lower Upper

91 100

92 58.7 41.5 77.1





#45

trans-1,3-Dichloropropene

Concen: 2.396 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

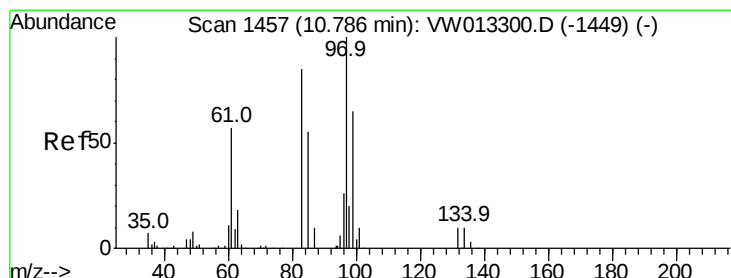
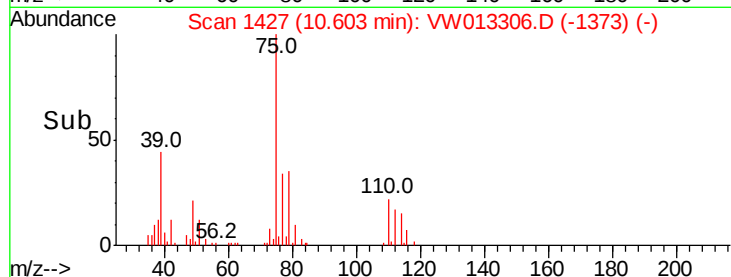
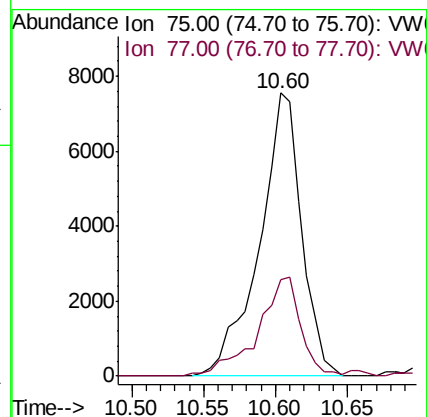
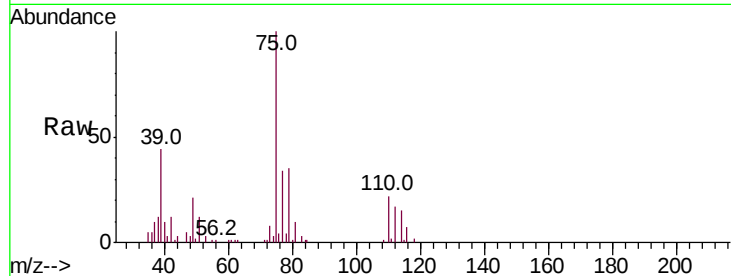
MDL02

Tot Ion: 75 Resp: 15301

Ion Ratio Lower Upper

75 100

77 34.3 20.5 38.1



#46

1,1,2-Trichloroethane

Concen: 1.965 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Tgt Ion: 97 Resp: 7657

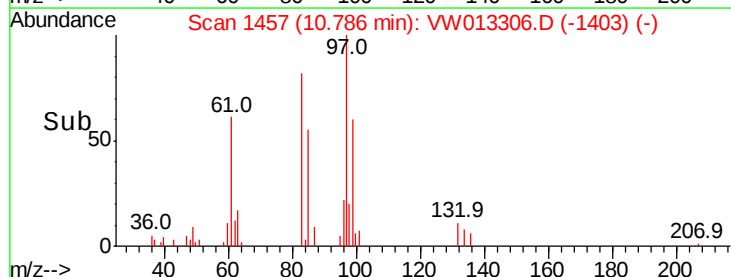
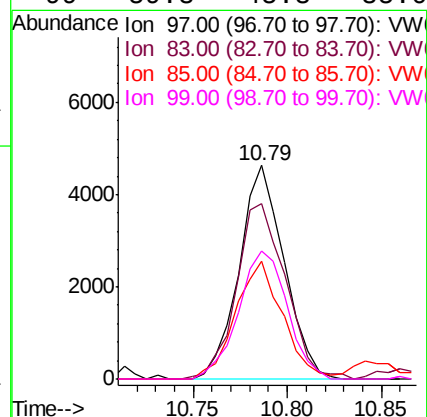
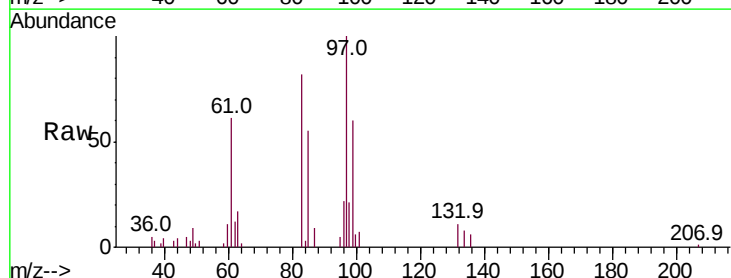
Ion Ratio Lower Upper

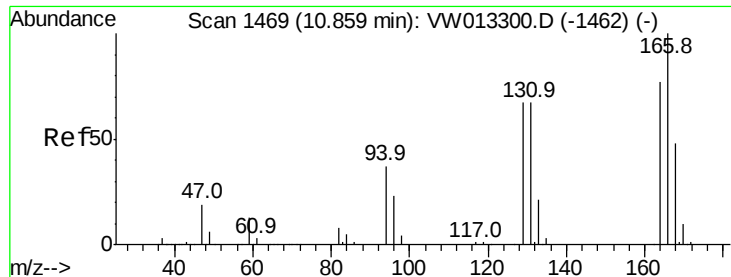
97 100

83 82.4 59.4 110.2

85 55.4 38.7 71.9

99 59.8 45.8 85.0





#47

Tetrachloroethene

Concen: 2.055 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL02

Tot Ion:164 Resp: 9819

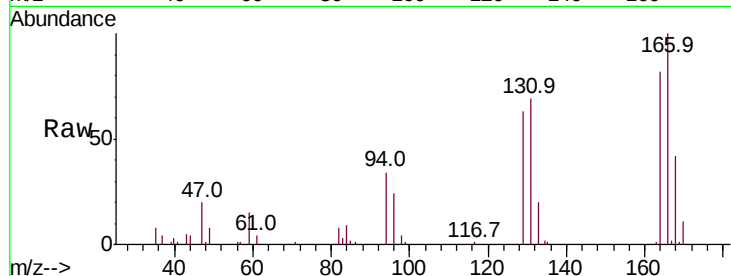
Ion Ratio Lower Upper

164 100

129 76.4 60.5 112.5

131 84.3 60.6 112.6

166 121.3 90.6 168.2

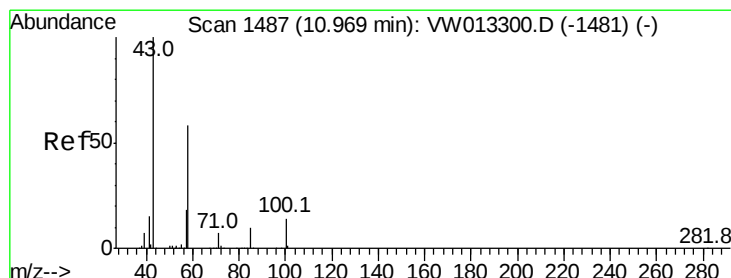
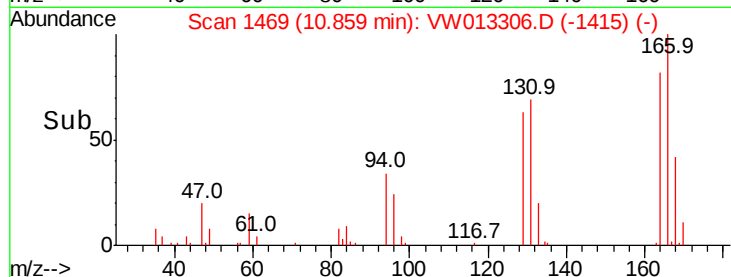
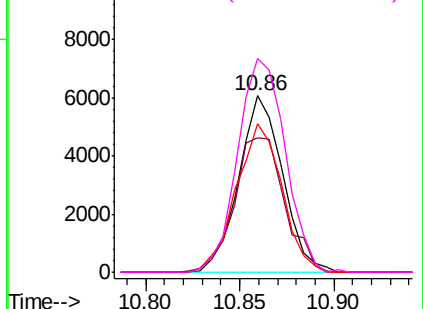


Abundance Ion 164.00 (163.70 to 164.70): V

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: 4.405 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Tgt Ion: 43 Resp: 12057

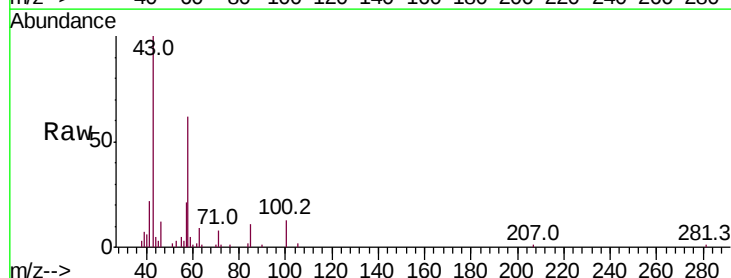
Ion Ratio Lower Upper

43 100

58 56.2 44.3 66.5

57 20.1 15.3 22.9

100 14.4 10.6 15.8

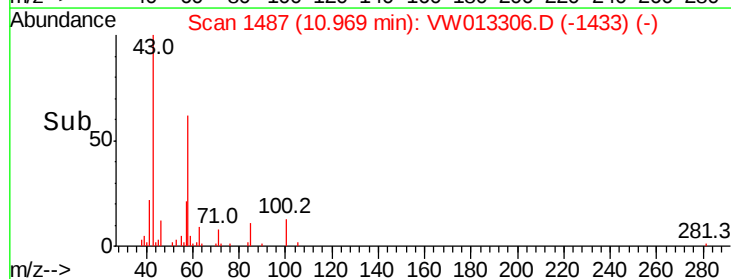
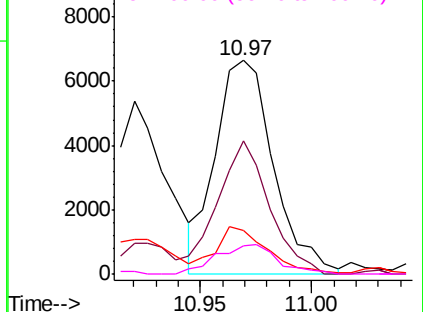


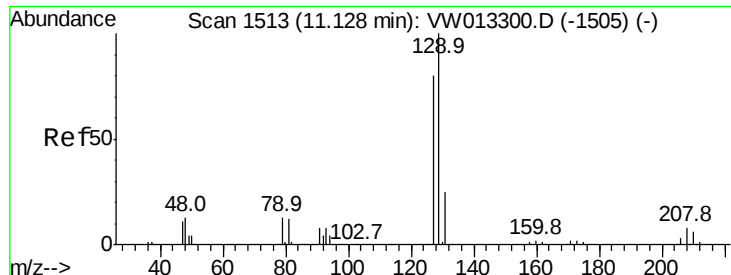
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#50

Dibromochloromethane

Concen: 1.849 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

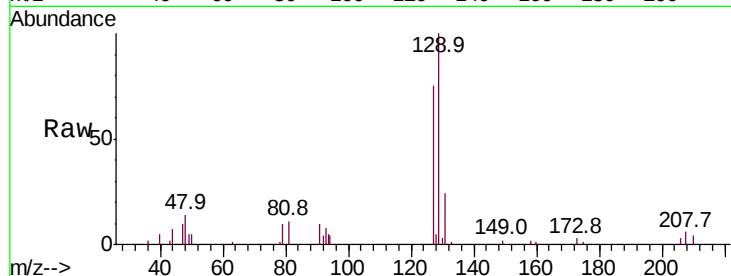
MDL02

Tot Ion:129 Resp: 8263

Ion Ratio Lower Upper

129 100

127 75.4 56.1 104.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13

5000

4000

3000

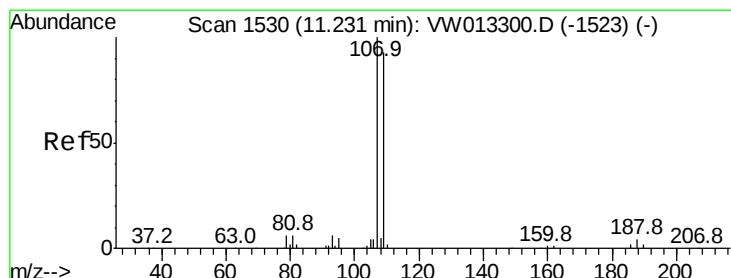
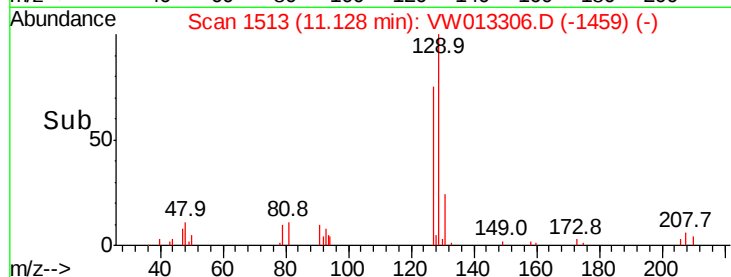
2000

1000

0

11.10 11.15

Time-->



#51

1,2-Dibromoethane

Concen: 1.954 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

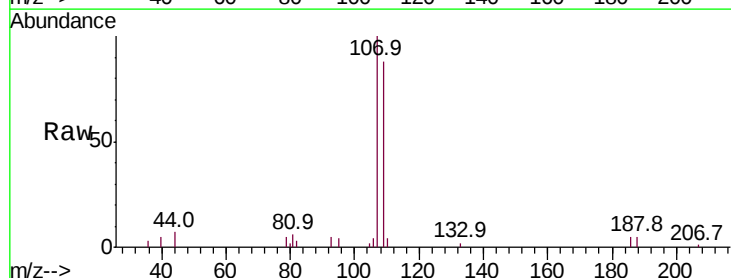
Tgt Ion:107 Resp: 7482

Ion Ratio Lower Upper

107 100

109 87.8 65.5 121.6

188 4.7 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

11.24

5000

4000

3000

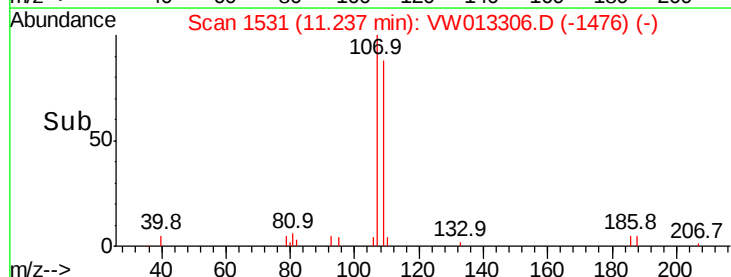
2000

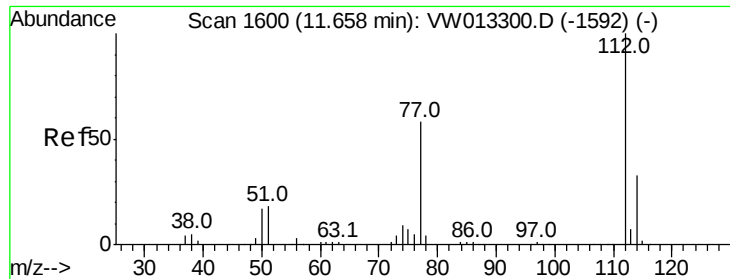
1000

0

11.20 11.25

Time-->





#52

Chlorobenzene

Concen: 2.005 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL02

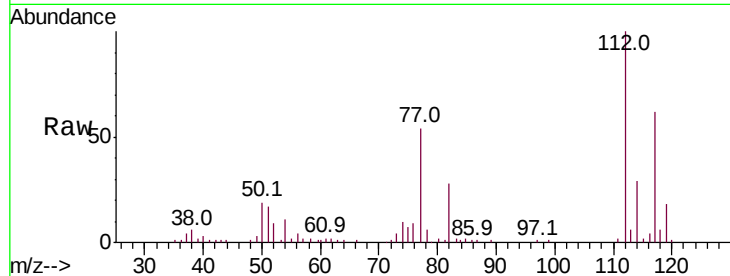
Tot Ion:112 Resp: 27806

Ion Ratio Lower Upper

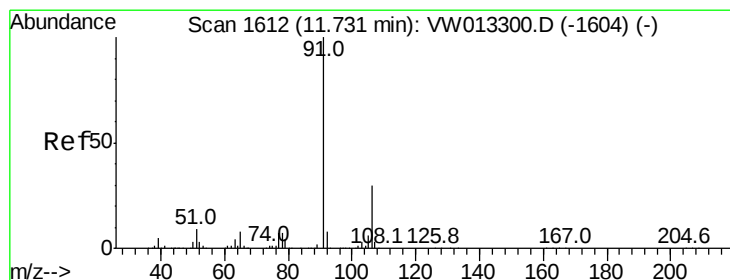
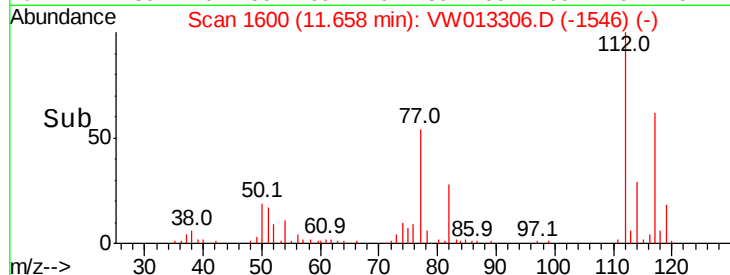
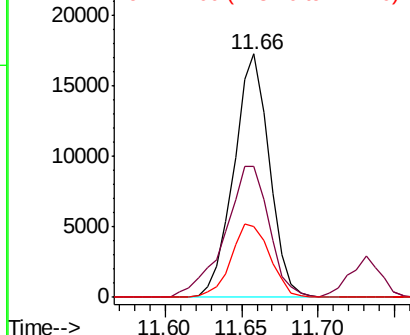
112 100

77 53.9 46.5 69.7

114 28.8 23.0 42.8



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



#53

Ethylbenzene

Concen: 1.925 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013306.D

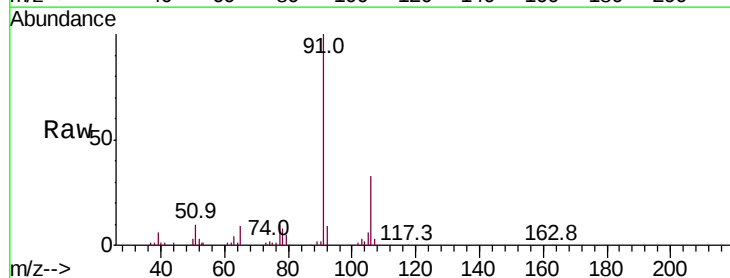
Acq: 26 Sep 2019 14:52

Tgt Ion: 91 Resp: 46967

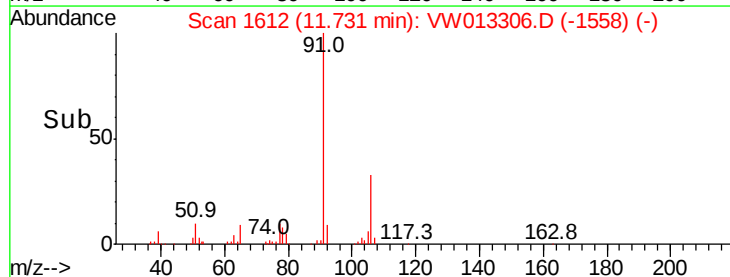
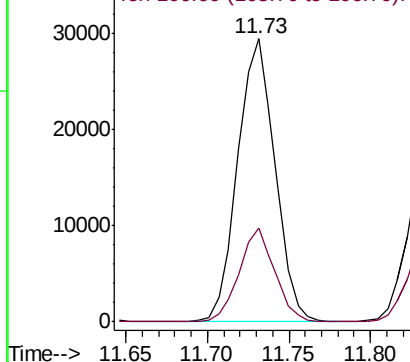
Ion Ratio Lower Upper

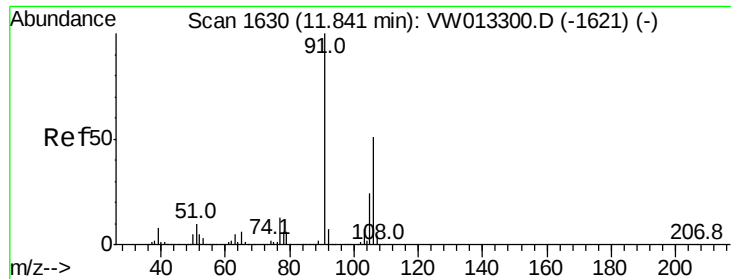
91 100

106 33.2 20.8 38.6



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





#54

m,p-Xylene

Concen: 2.047 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

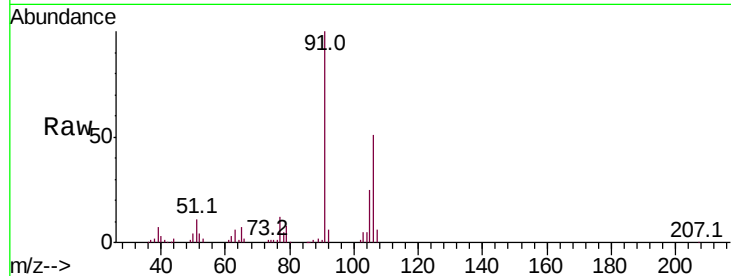
MDL02

Tot Ion:106 Resp: 19179

Ion Ratio Lower Upper

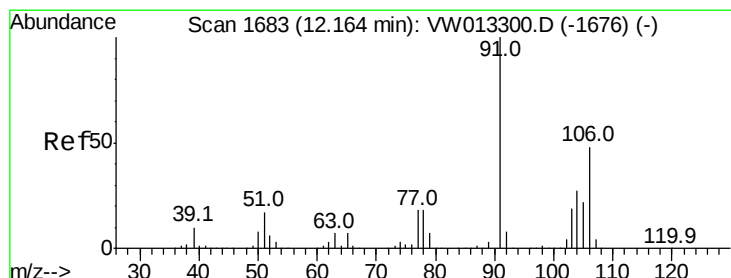
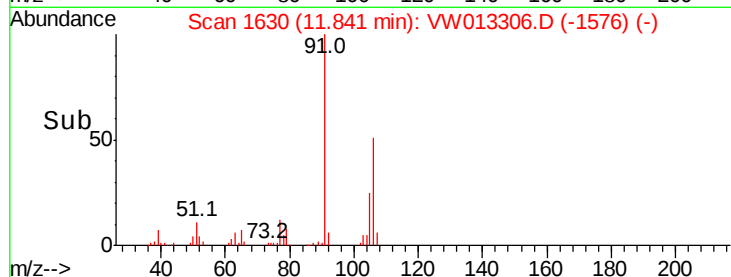
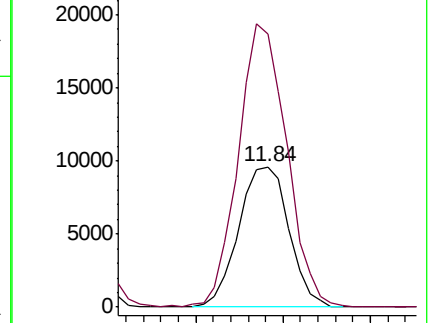
106 100

91 194.5 138.3 256.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 1.913 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013306.D

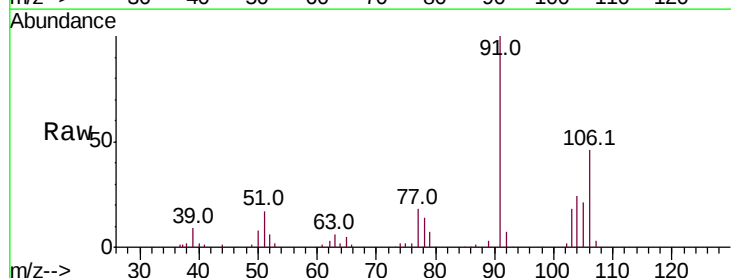
Acq: 26 Sep 2019 14:52

Tgt Ion:106 Resp: 16911

Ion Ratio Lower Upper

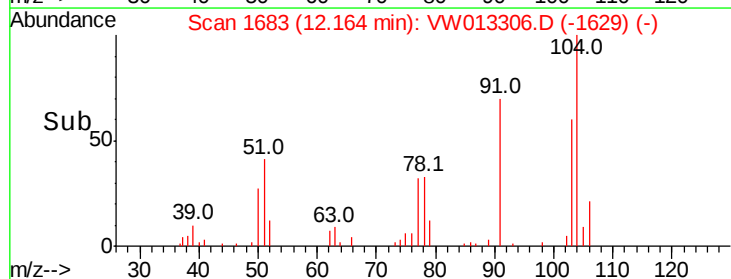
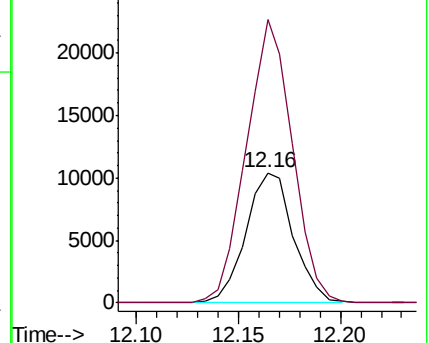
106 100

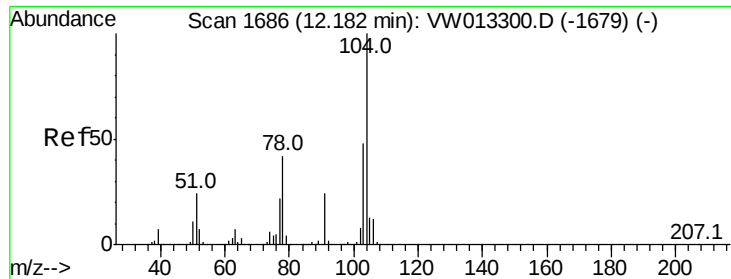
91 217.1 145.9 271.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 1.842 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

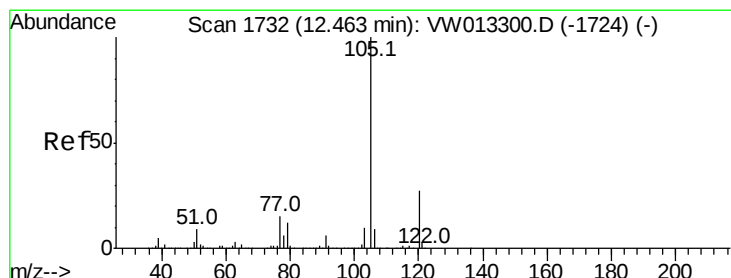
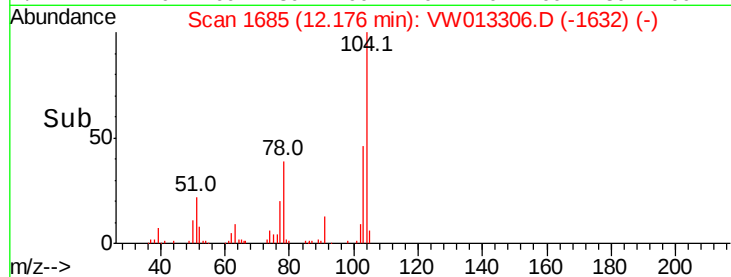
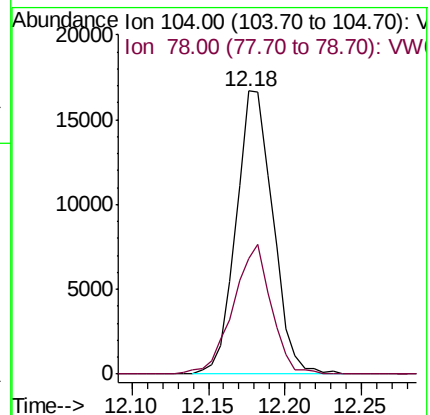
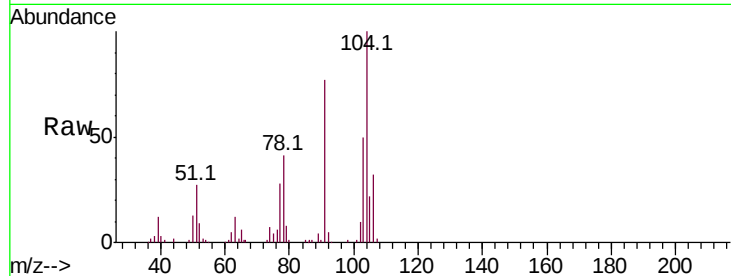
MDL02

Tot Ion:104 Resp: 27915

Ion Ratio Lower Upper

104 100

78 41.1 29.8 55.4



#57

Isopropylbenzene

Concen: 1.906 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

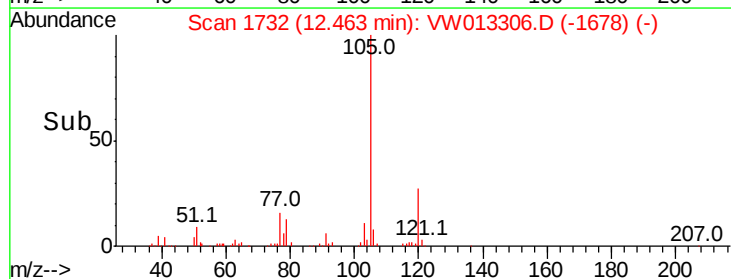
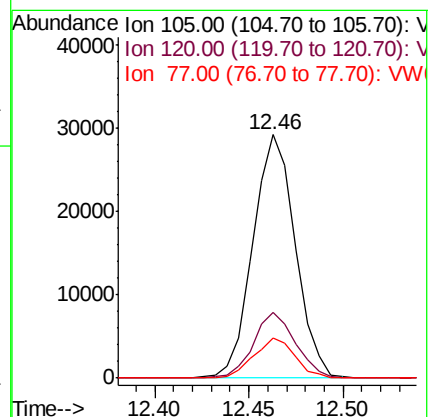
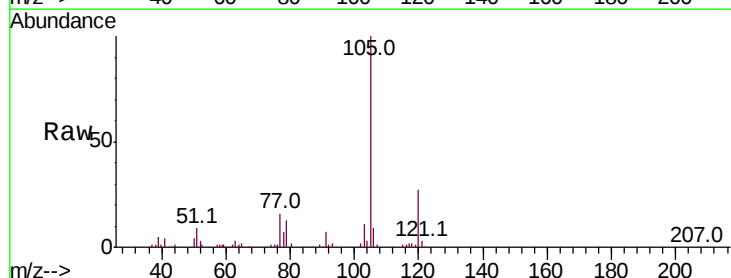
Tgt Ion:105 Resp: 45564

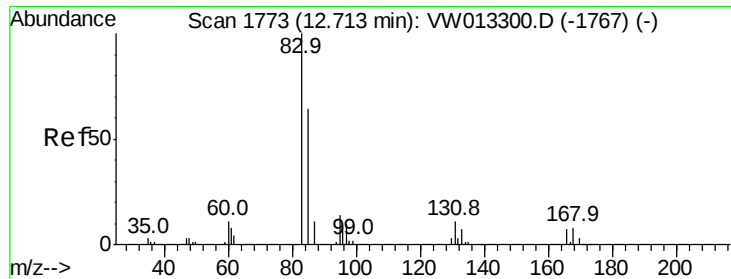
Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

77 15.9 11.8 17.6

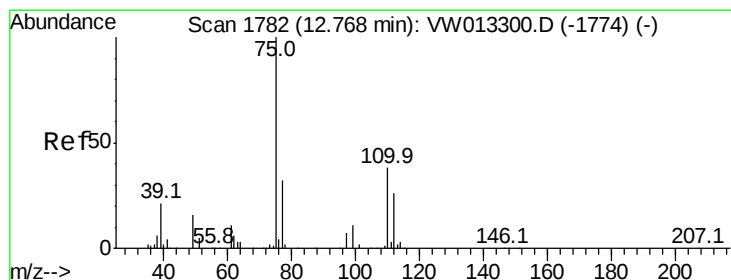
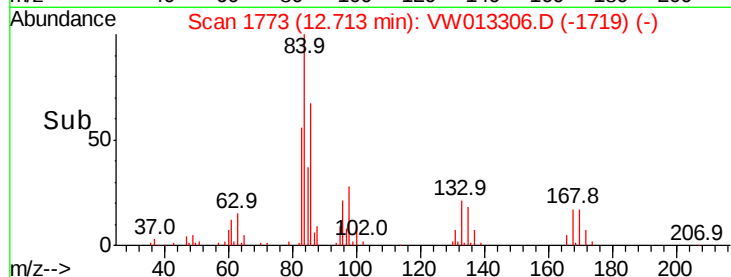
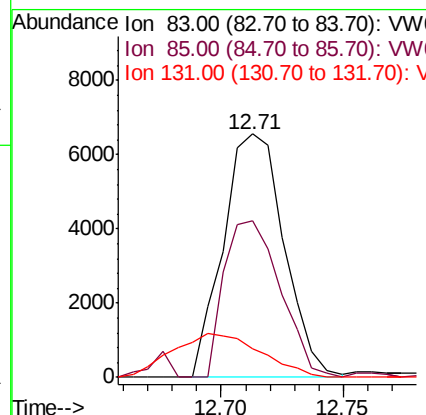
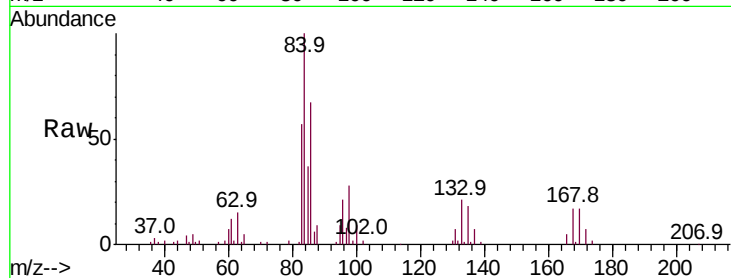




#58
 1,1,2,2-Tetrachloroethane
 Concen: 2.362 ug/L
 RT: 12.71 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

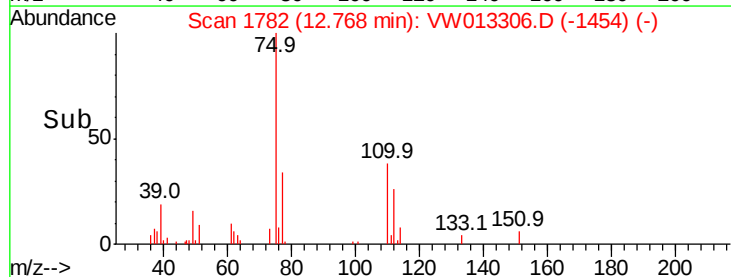
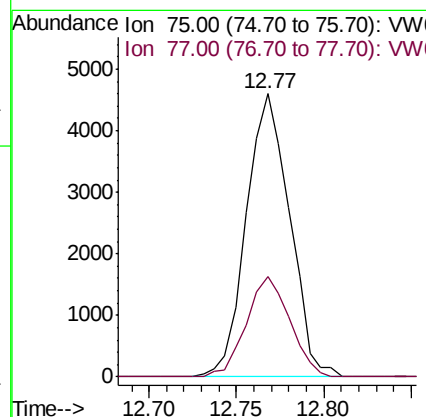
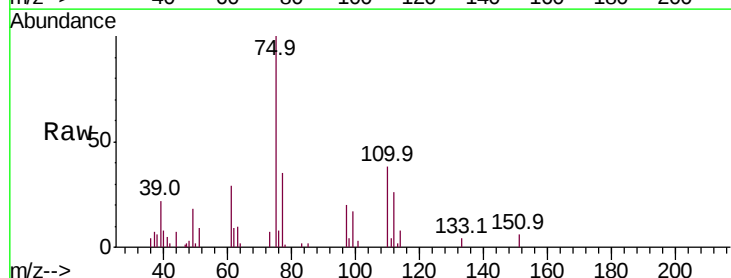
Instrument :
 MSVOA_W
 ClientSampled :
 MDL02

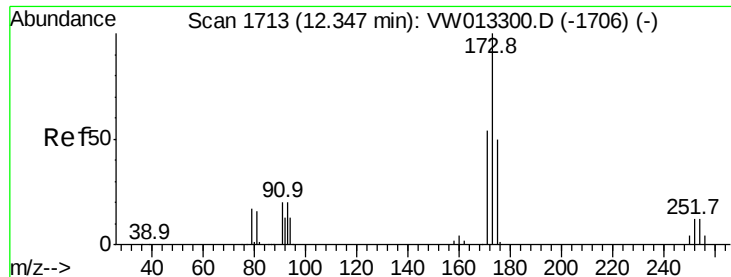
Tot Ion: 83 Resp: 11340
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.2 84.0
 131 11.7 8.9 13.3



#59
 1,2,3-Trichloropropane
 Concen: 2.210 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW013306.D
 Acq: 26 Sep 2019 14:52

Tgt Ion: 75 Resp: 7916
 Ion Ratio Lower Upper
 75 100
 77 35.6 25.8 38.8





#62

Bromoform

Concen: 1.841 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL02

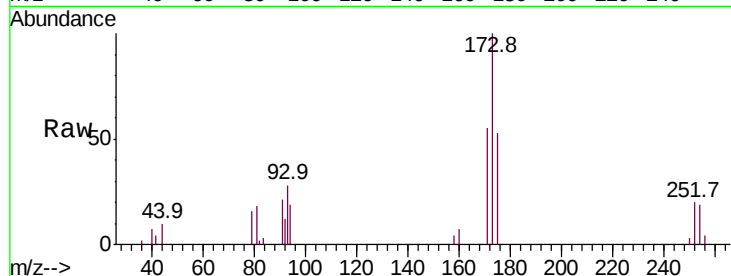
Tot Ion:173 Resp: 5146

Ion Ratio Lower Upper

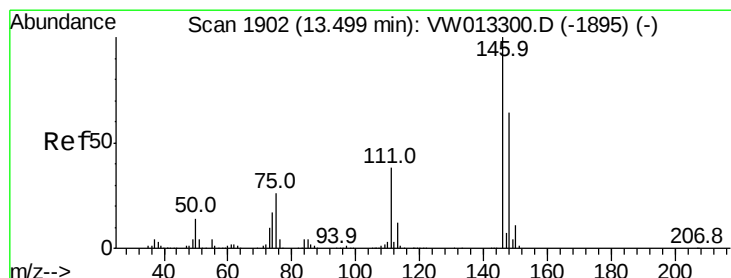
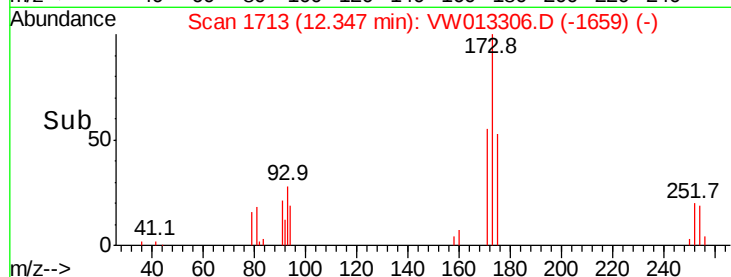
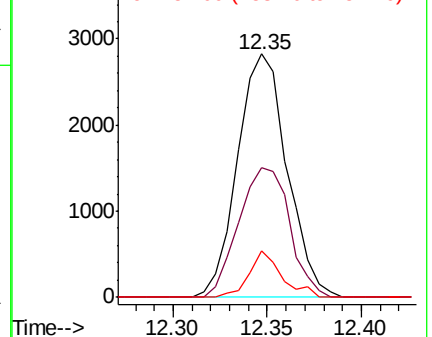
173 100

175 54.5 39.3 58.9

254 12.7 9.1 13.7



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 2.028 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

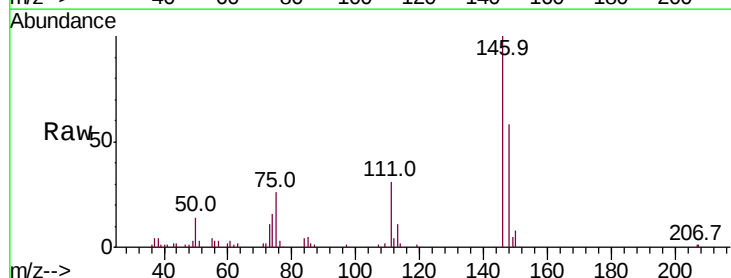
Tgt Ion:146 Resp: 22054

Ion Ratio Lower Upper

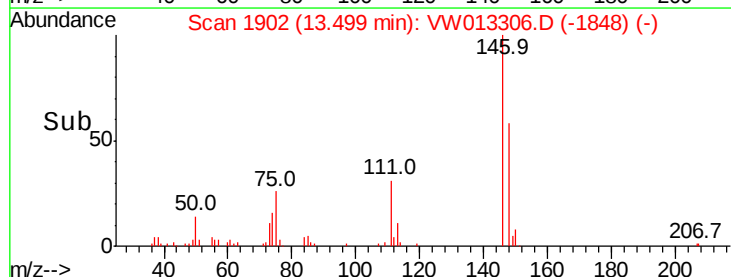
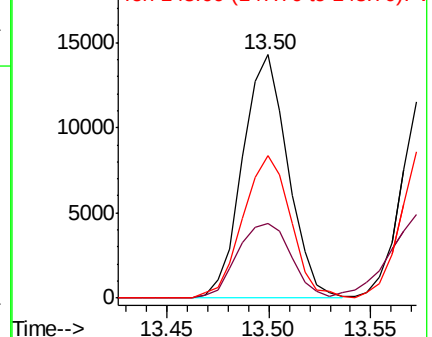
146 100

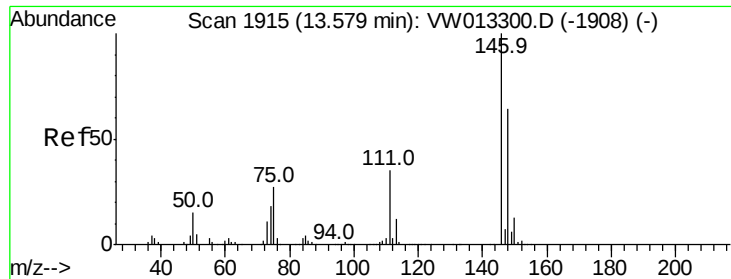
111 30.8 26.7 49.5

148 58.4 45.0 83.6



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 2.041 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

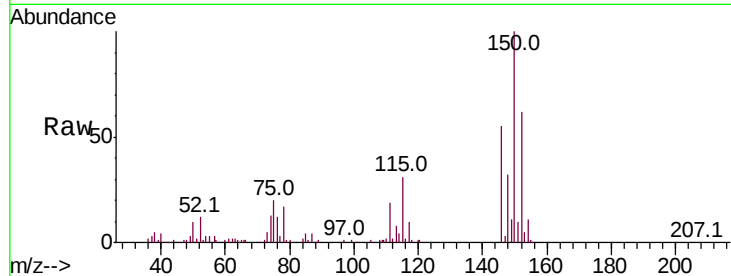
Tot Ion:146 Resp: 22427

Ion Ratio Lower Upper

146 100

111 34.1 24.2 45.0

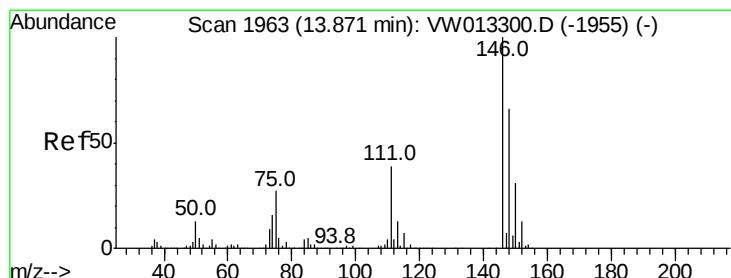
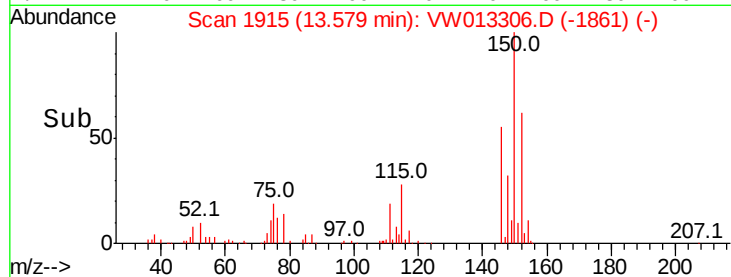
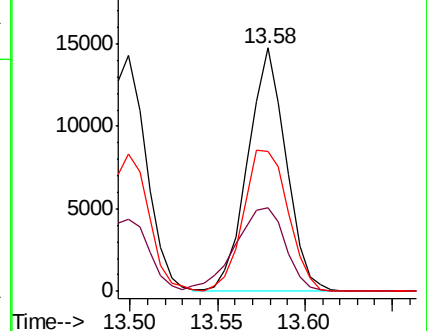
148 57.3 45.1 83.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 2.073 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

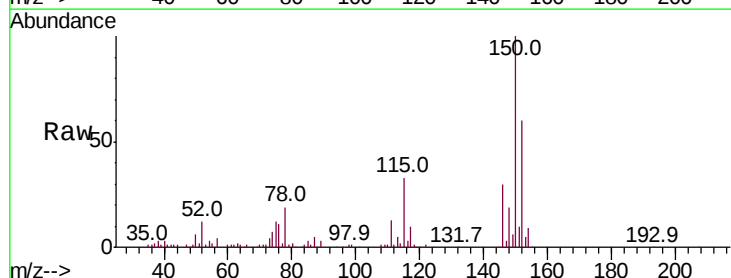
Tgt Ion:146 Resp: 20509

Ion Ratio Lower Upper

146 100

111 42.1 30.8 46.2

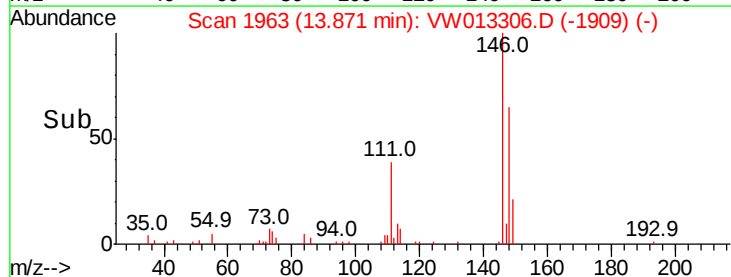
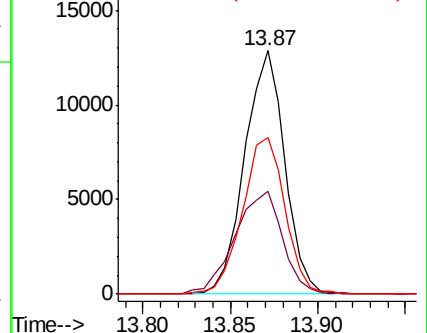
148 64.1 52.5 78.7

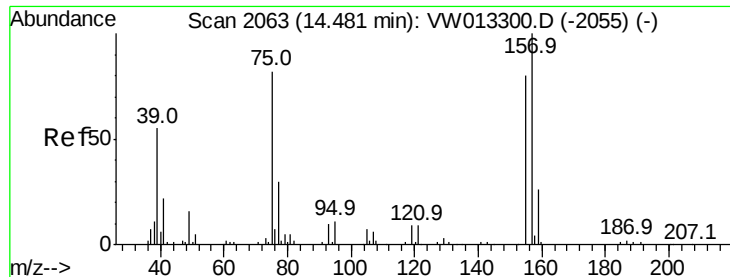


Abundance Ion 146.00 (145.70 to 146.70): V

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: 2.275 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

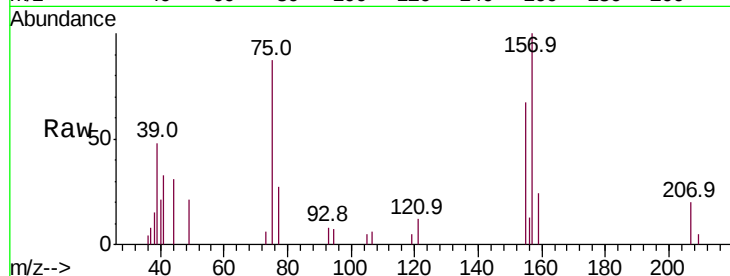
Tot Ion: 75 Resp: 1773

Ion Ratio Lower Upper

75 100

157 114.4 97.8 146.8

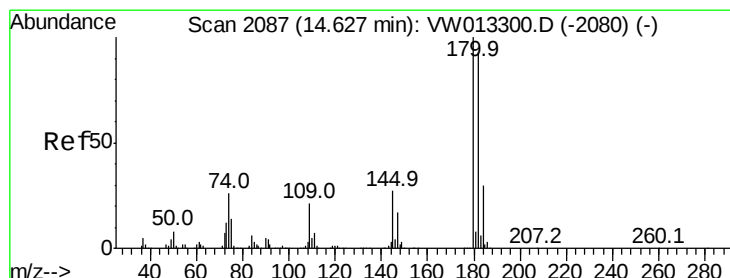
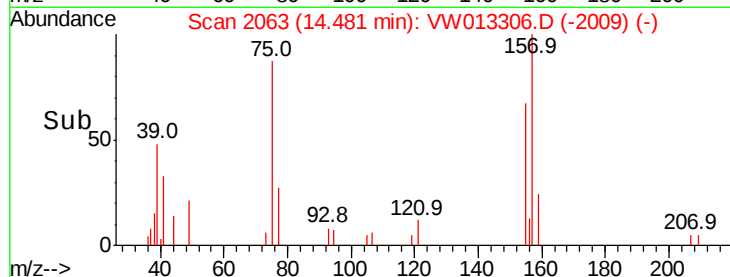
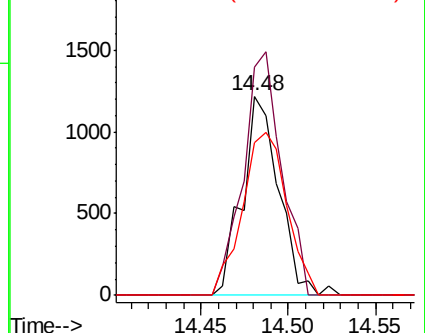
155 76.4 78.4 117.6#



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: 1.915 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Tgt Ion: 180 Resp: 16037

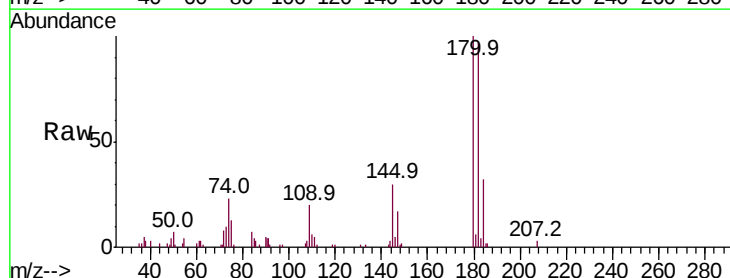
Ion Ratio Lower Upper

180 100

182 98.0 76.4 114.6

184 32.0 23.9 35.9

145 30.3 21.7 32.5

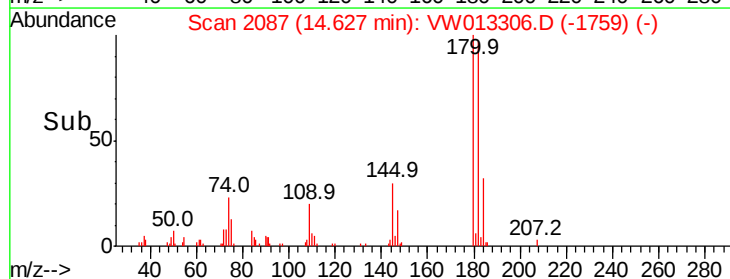
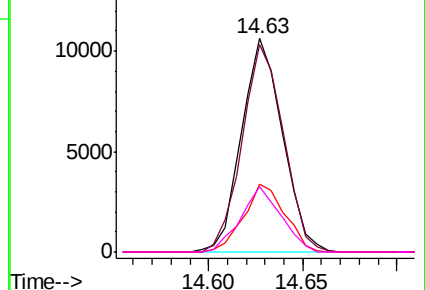


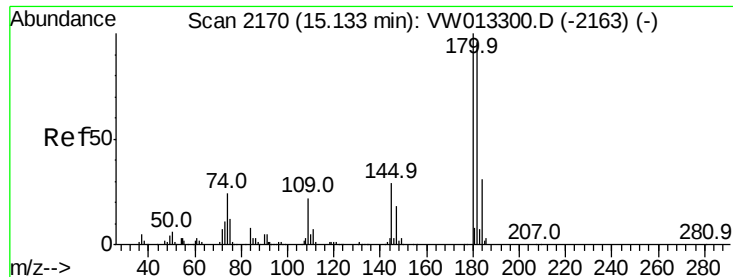
Abundance Ion 180.00 (179.70 to 180.70): V

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: 1.784 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

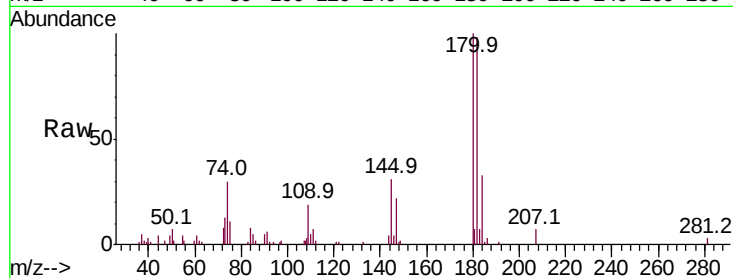
MSVOA_W

ClientSampleId :

MDL02

Tot Ion:180 Resp: 11925

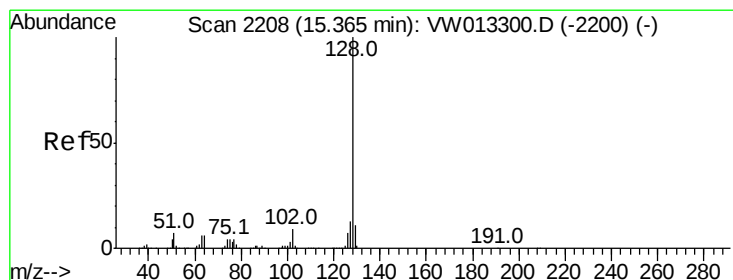
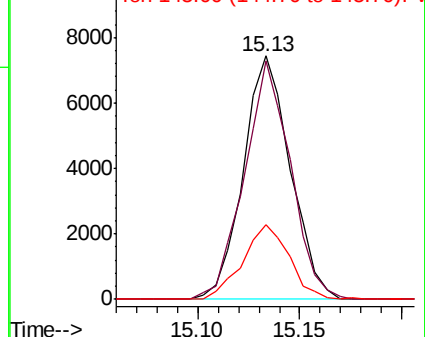
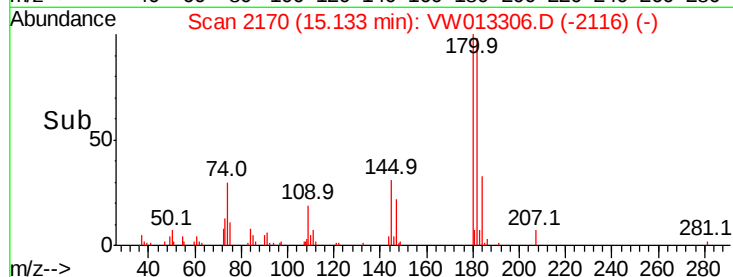
Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.9	113.9
145	30.1	23.0	34.4



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: 1.715 ug/L

RT: 15.37 min Scan# 2209

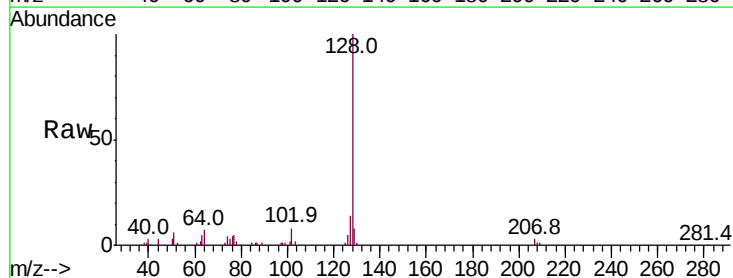
Delta R.T. 0.01 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Tgt Ion:128 Resp: 21898

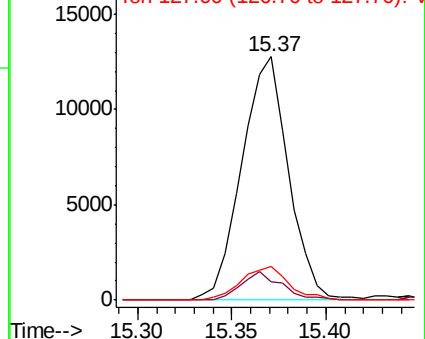
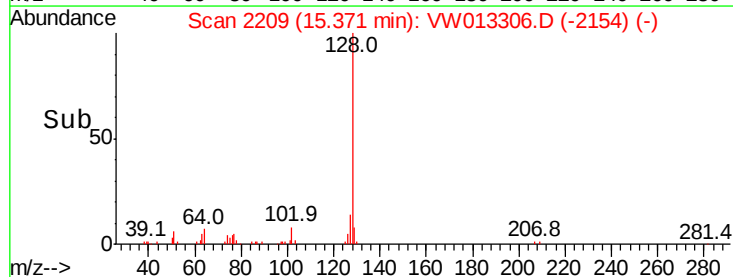
Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.7	13.1
127	14.0	10.6	15.8

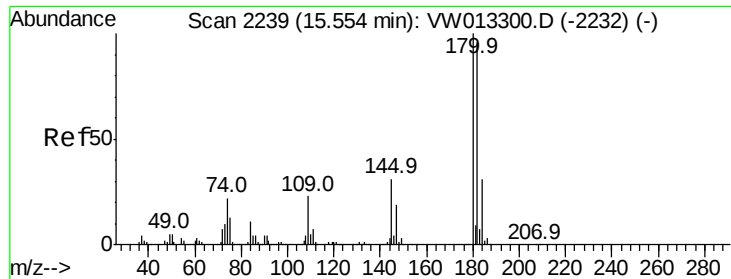


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70

1,2,3-Trichlorobenzene

Concen: 1.895 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013306.D

Acq: 26 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL02

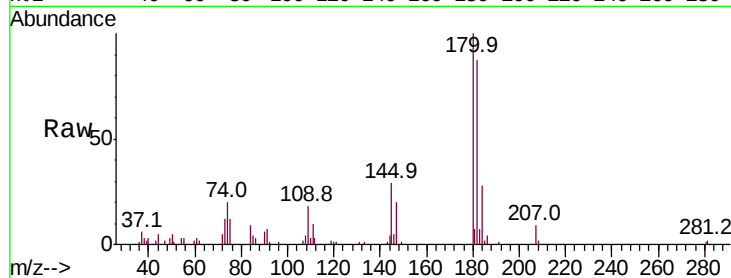
Tot Ion:180 Resp: 11519

Ion Ratio Lower Upper

180 100

182 95.2 78.2 117.4

145 29.1 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

