

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092619\
 Data File : VW013310.D
 Acq On : 26 Sep 2019 17:52
 Operator : SY/VA
 Sample : MDL 2 PPB
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Quant Time: Sep 26 19:10:31 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	478071	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	429797	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	214911	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	141234	24.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.12%
7) Chloroethane-d5	2.89	69	110606	24.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.68%
10) 1,1-Dichloroethene-d2	4.01	63	212904	18.97	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.88%
20) 2-Butanone-d5	7.07	46	100031	50.77	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.54%
24) Chloroform-d	7.65	84	257082	23.85	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.40%
26) 1,2-Dichloroethane-d4	8.31	65	145354	24.96	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.84%
29) Benzene-d6	8.27	84	572722	24.54	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.16%
33) 1,2-Dichloropropane-d6	9.27	67	172849	24.85	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.40%
37) Toluene-d8	10.32	98	538520	24.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.04%
38) trans-1,3-Dichloropropene-	10.58	79	75437	24.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.56%
39) 2-Hexanone-d5	10.92	63	78710	51.73	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.46%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	151064	25.58	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.32%
61) 1,2-Dichlorobenzene-d4	13.85	152	192126	25.03	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.00	85	3917	1.309	ug/L #	82
3) Chloromethane	2.21	50	8421	2.101	ug/L	96
5) Vinyl chloride	2.35	62	11632	2.098	ug/L #	57
6) Bromomethane	2.78	94	7249	2.056	ug/L	85
8) Chloroethane	2.92	64	5847	1.738	ug/L	95
9) Trichlorofluoromethane	3.26	101	5606	1.631	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	9528	1.755	ug/L #	92
12) 1,1-Dichloroethene	4.03	96	12661	2.297	ug/L #	1
13) Acetone	4.12	43	9603	5.856	ug/L	71
14) Carbon disulfide	4.38	76	31053	1.985	ug/L	96
16) Methylene chloride	4.91	84	27578	3.861	ug/L	99
17) Methyl tert-butyl Ether	5.43	73	21572	2.263	ug/L #	86
18) trans-1,2-Dichloroethene	5.42	96	12699	2.155	ug/L	96
19) 1,1-Dichloroethane	6.21	63	22120	2.140	ug/L	98
21) 2-Butanone	7.16	43	13191	5.585	ug/L	94
22) cis-1,2-Dichloroethene	7.16	96	13557	2.111	ug/L	90
23) Bromochloromethane	7.51	128	6268	2.169	ug/L #	93

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

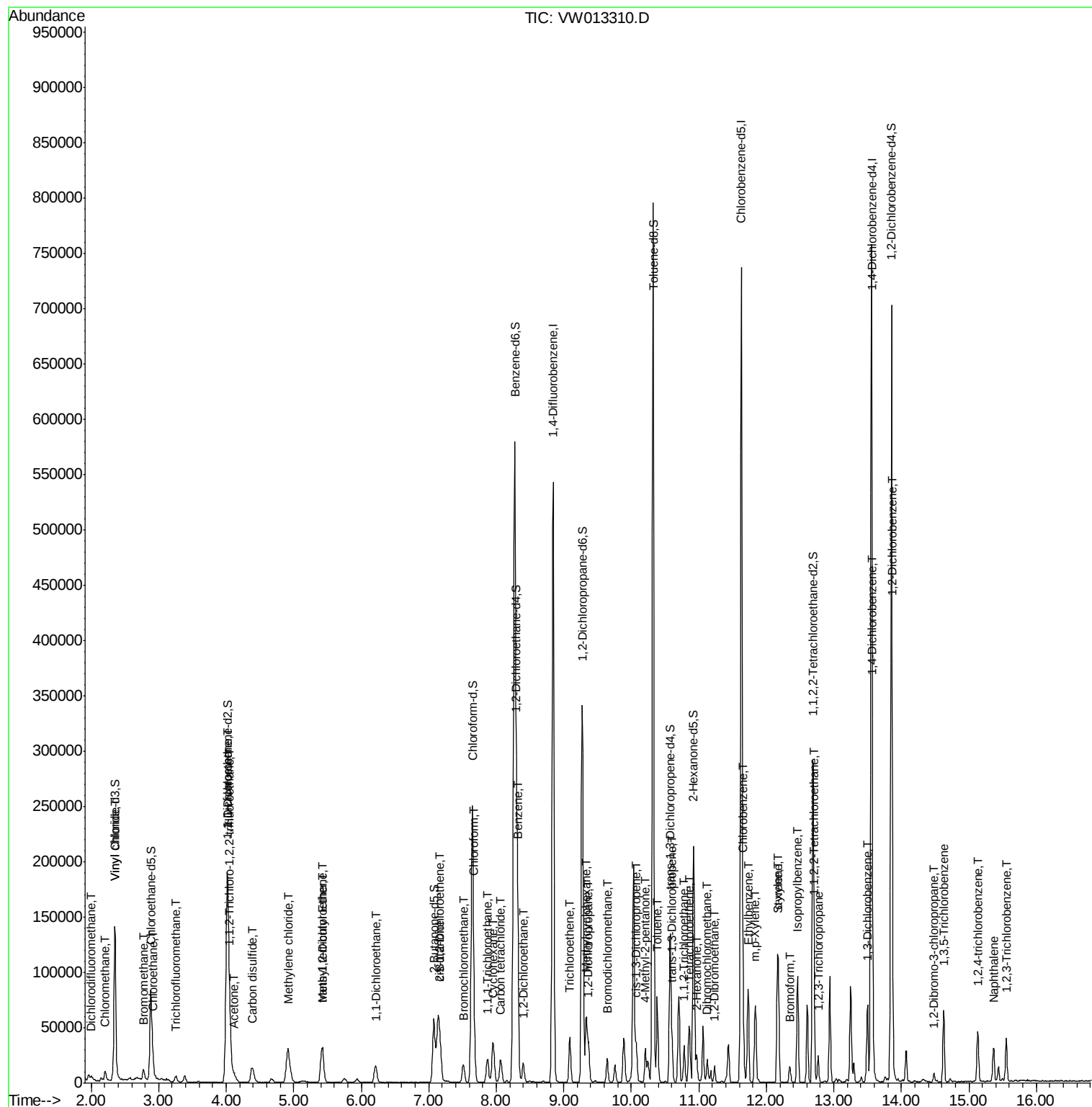
25) Chloroform	7.67	83	23551	2.319	ug/L	84
27) 1,2-Dichloroethane	8.40	62	15200	2.285	ug/L	94
30) Cyclohexane	7.95	56	20986	2.033	ug/L #	92
31) 1,1,1-Trichloroethane	7.87	97	17128	2.076	ug/L	99
32) Carbon tetrachloride	8.06	117	16499	2.098	ug/L	99
34) Benzene	8.32	78	53765	2.231	ug/L	100
35) Trichloroethene	9.09	95	13641	2.155	ug/L	98
36) Methylcyclohexane	9.34	83	22621	2.006	ug/L	96
40) 1,2-Dichloropropane	9.37	63	12831	2.164	ug/L	98
41) Bromodichloromethane	9.64	83	15675	2.155	ug/L #	96
42) cis-1,3-Dichloropropene	10.07	75	19664	2.077	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	23721	5.227	ug/L	95
44) Toluene	10.39	91	58543	2.232	ug/L	96
45) trans-1,3-Dichloropropene	10.60	75	19266	2.531	ug/L	90
46) 1,1,2-Trichloroethane	10.79	97	9694	2.087	ug/L	94
47) Tetrachloroethene	10.86	164	12458	2.187	ug/L	95
49) 2-Hexanone	10.97	43	14259	4.371	ug/L	98
50) Dibromochloromethane	11.13	129	11079	2.080	ug/L	93
51) 1,2-Dibromoethane	11.23	107	9765	2.140	ug/L #	100
52) Chlorobenzene	11.66	112	35516	2.149	ug/L	99
53) Ethylbenzene	11.73	91	61549	2.117	ug/L	97
54) m,p-Xylene	11.83	106	22098	1.979	ug/L	97
55) o-xylene	12.16	106	22042	2.092	ug/L	91
56) Styrene	12.18	104	37598	2.081	ug/L	98
57) Isopropylbenzene	12.46	105	59010	2.071	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	12842	2.244	ug/L	95
59) 1,2,3-Trichloropropane	12.77	75	9918	2.323	ug/L	99
62) Bromoform	12.35	173	6850	2.015	ug/L #	97
63) 1,3-Dichlorobenzene	13.50	146	28187	2.131	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	30813	2.306	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	26896	2.235	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.49	75	2237	2.361	ug/L	90
67) 1,3,5-Trichlorobenzene	14.63	180	21023	2.065	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	15896	1.956	ug/L	100
69) Naphthalene	15.36	128	27181	1.750	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	15844	2.143	ug/L	92

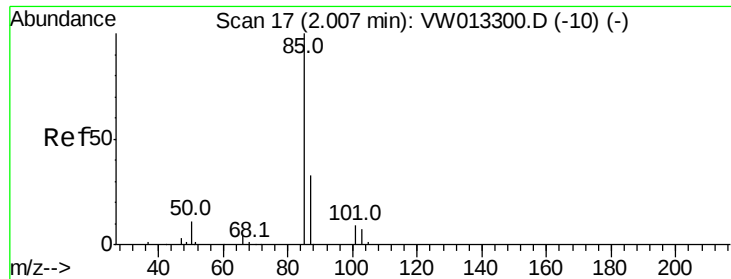
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.309 ug/L

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

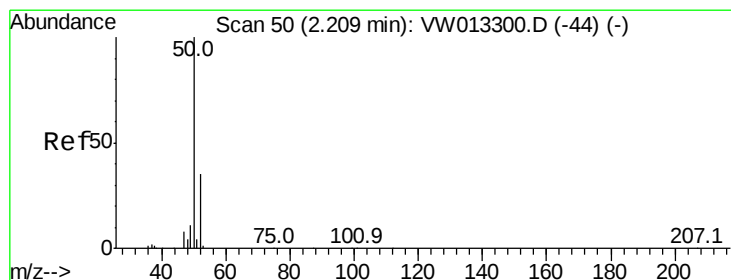
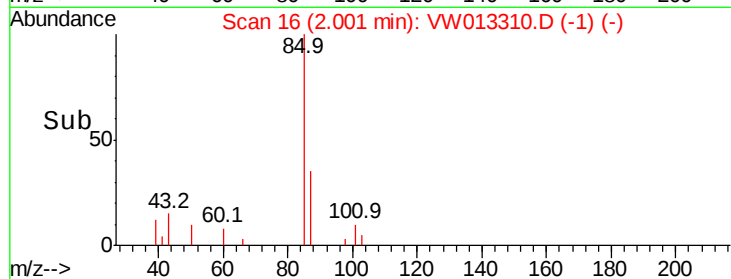
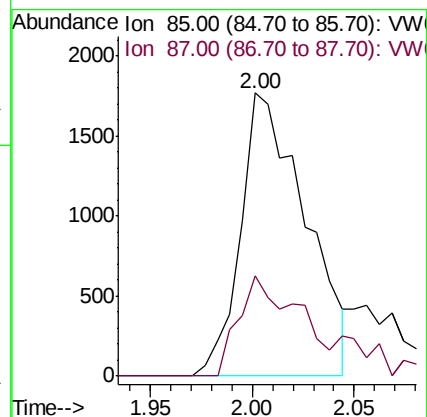
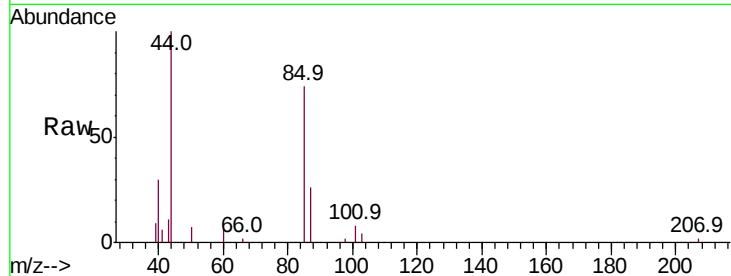
MDL06

Tot Ion: 85 Resp: 3917

Ion Ratio Lower Upper

85 100

87 20.7 21.3 39.6#



#3

Chloromethane

Concen: 2.101 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013310.D

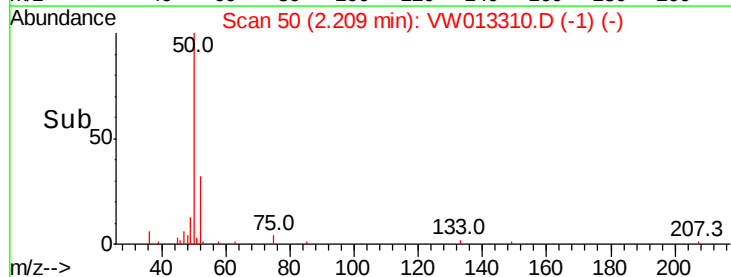
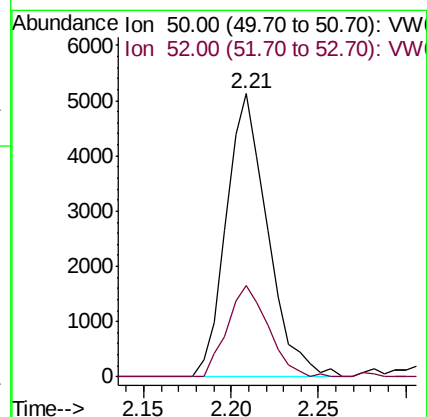
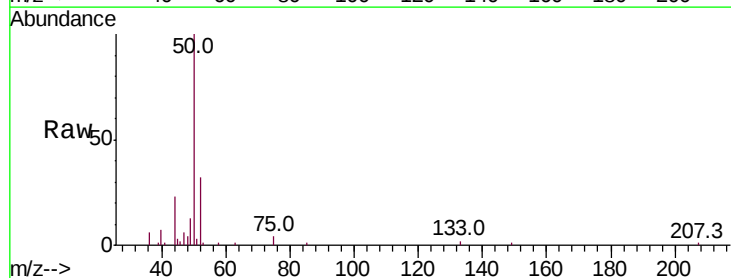
Acq: 26 Sep 2019 17:52

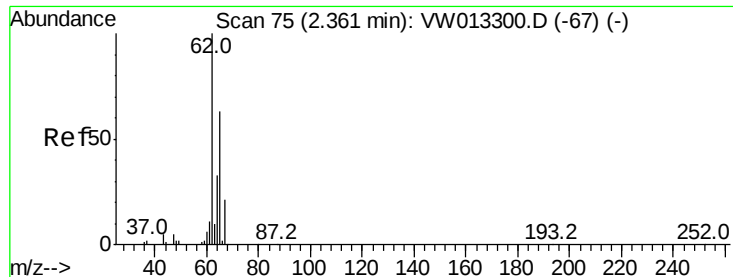
Tgt Ion: 50 Resp: 8421

Ion Ratio Lower Upper

50 100

52 32.4 24.4 45.4





#5

Vinyl chloride

Concen: 2.098 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

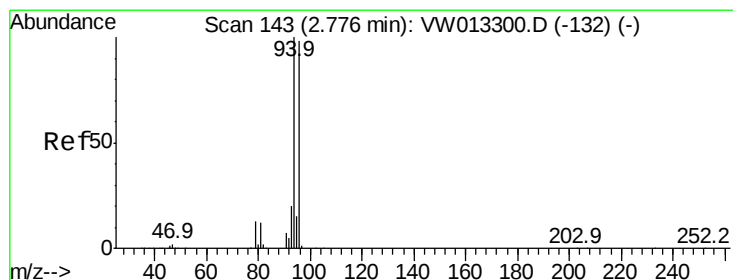
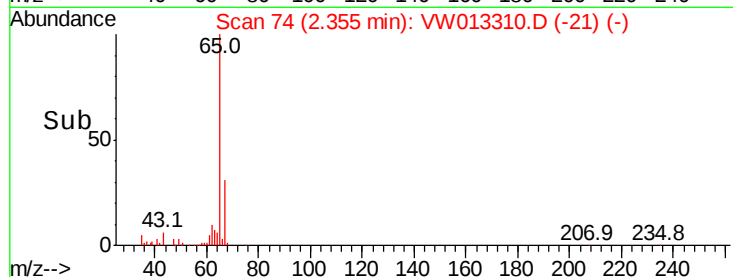
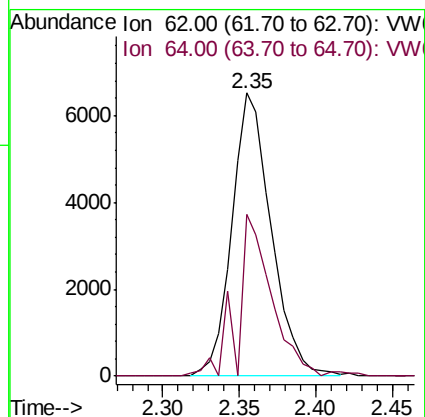
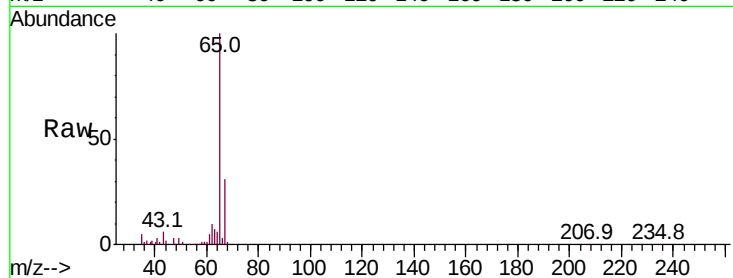
MDL06

Tot Ion: 62 Resp: 11632

Ion Ratio Lower Upper

62 100

64 57.2 23.2 43.0#



#6

Bromomethane

Concen: 2.056 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW013310.D

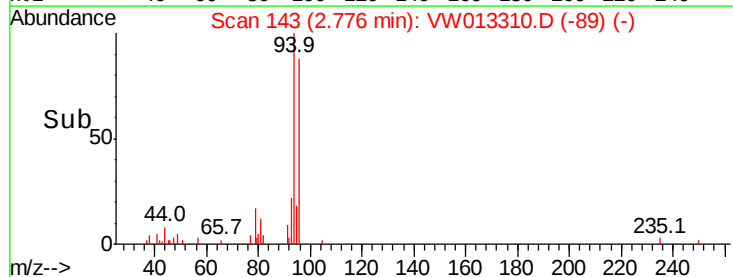
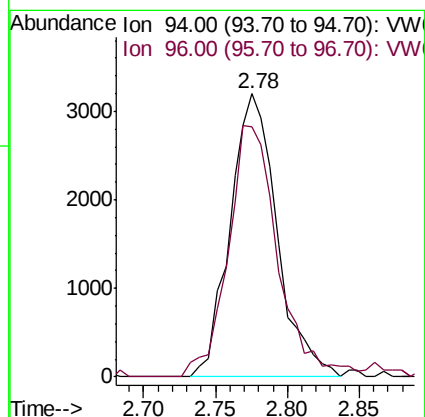
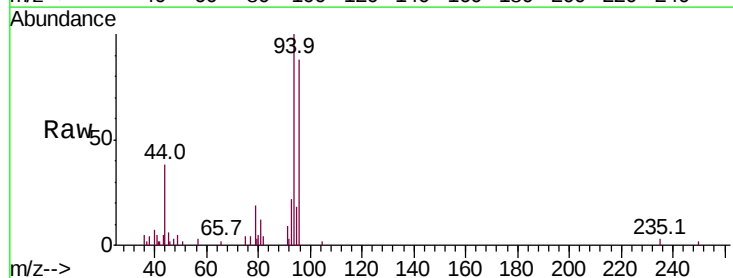
Acq: 26 Sep 2019 17:52

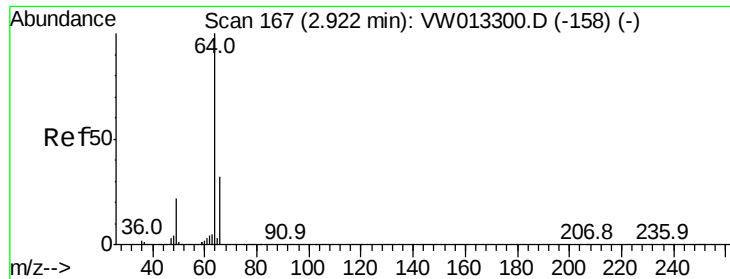
Tgt Ion: 94 Resp: 7249

Ion Ratio Lower Upper

94 100

96 82.1 9.7 184.3





#8

Chloroethane

Concen: 1.738 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

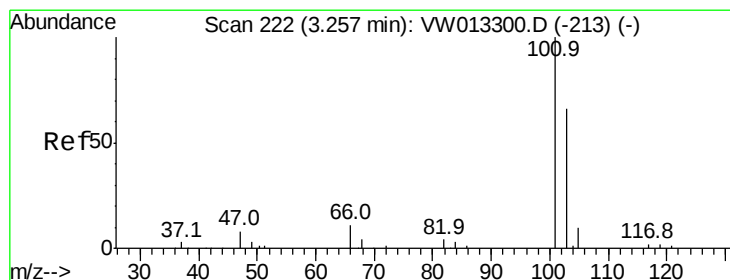
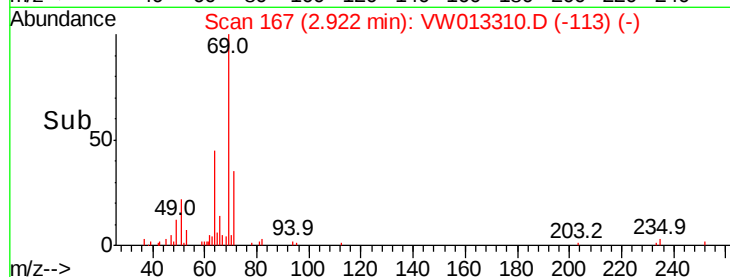
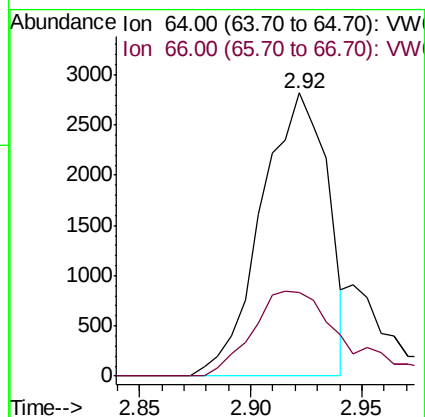
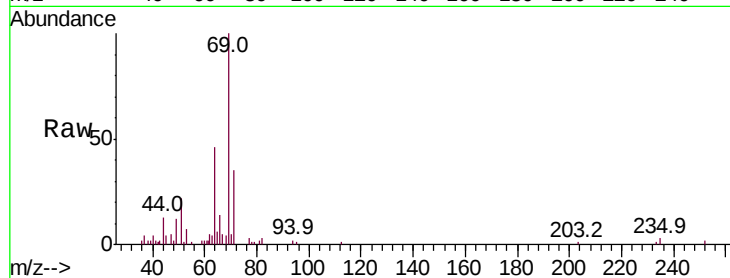
MDL06

Tot Ion: 64 Resp: 5847

Ion Ratio Lower Upper

64 100

66 29.3 22.7 42.1



#9

Trichlorofluoromethane

Concen: 1.631 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW013310.D

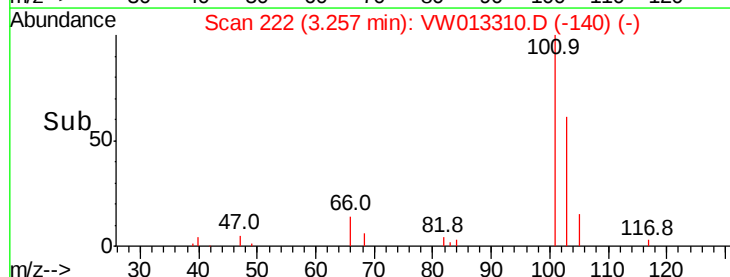
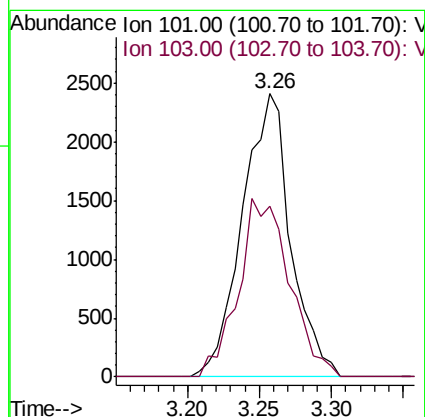
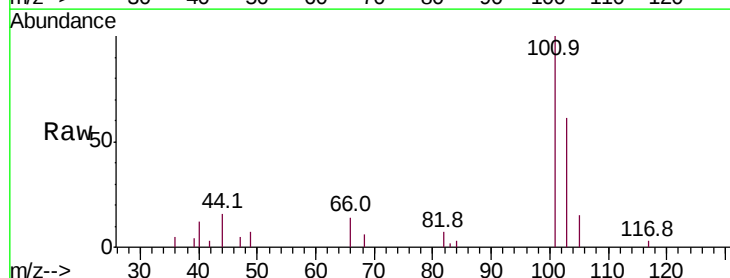
Acq: 26 Sep 2019 17:52

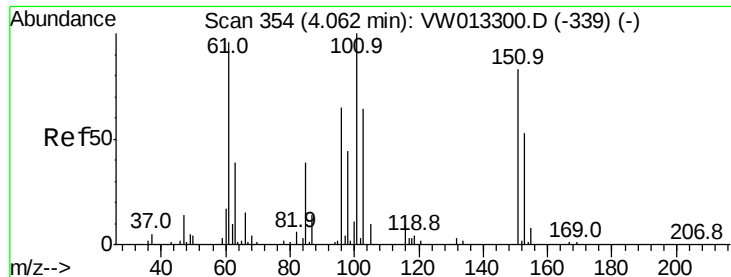
Tgt Ion: 101 Resp: 5606

Ion Ratio Lower Upper

101 100

103 66.7 45.2 84.0





#11

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

Concen: 1.755 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

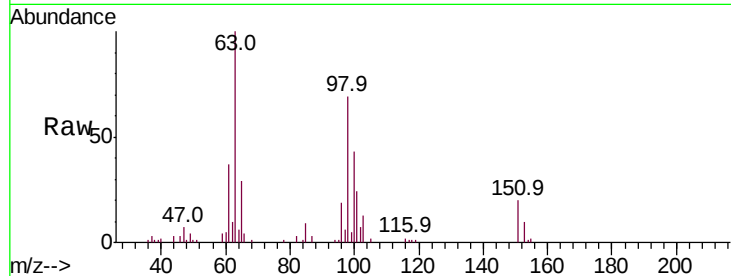
Tot Ion:101 Resp: 9528

Ion Ratio Lower Upper

101 100

85 28.2 31.8 47.8#

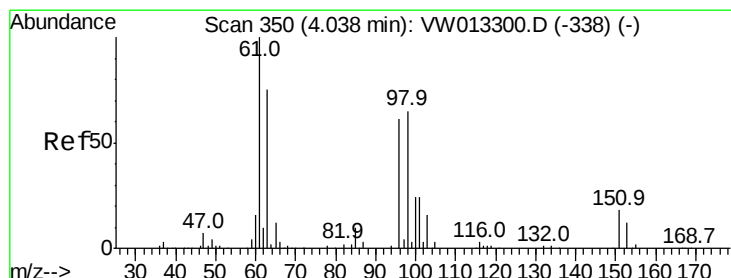
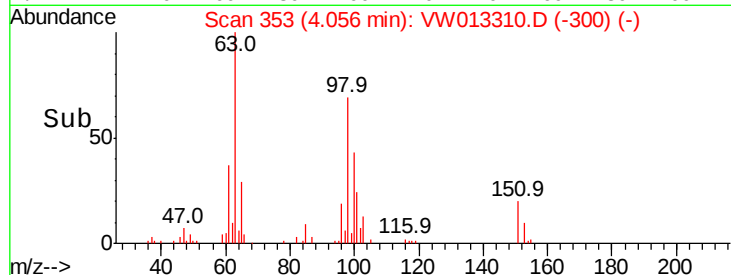
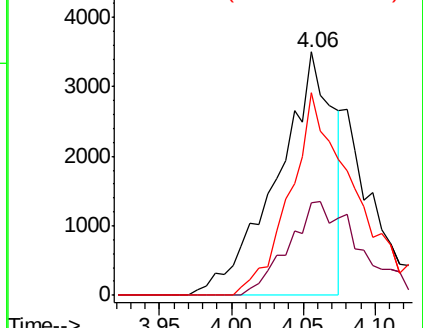
151 84.2 65.4 98.0



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: 2.297 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

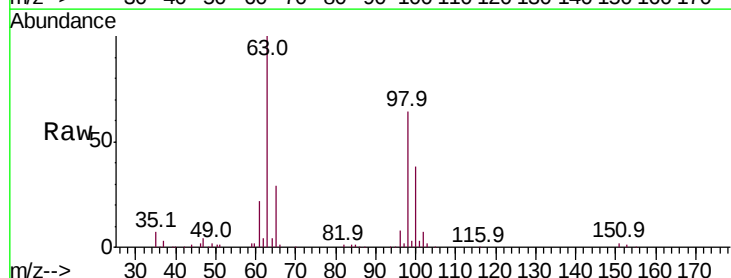
Tgt Ion: 96 Resp: 12661

Ion Ratio Lower Upper

96 100

61 288.9 115.9 215.3#

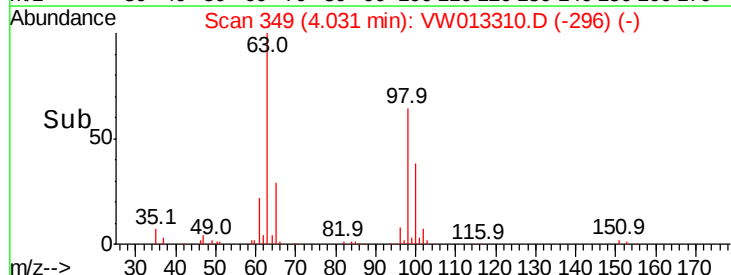
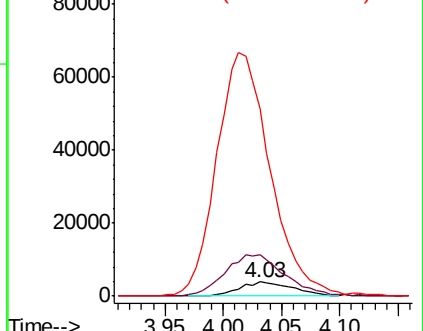
63 1310.1 88.9 165.1#

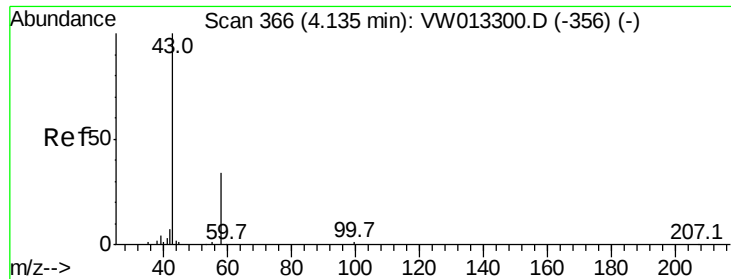


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 5.856 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

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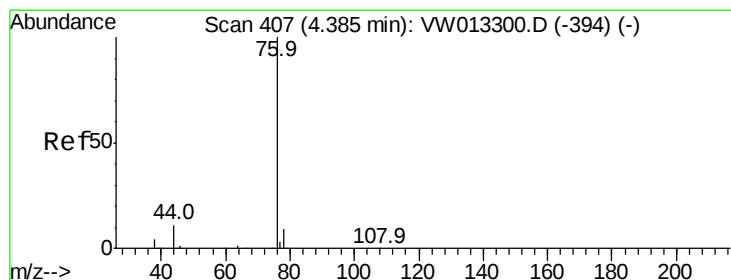
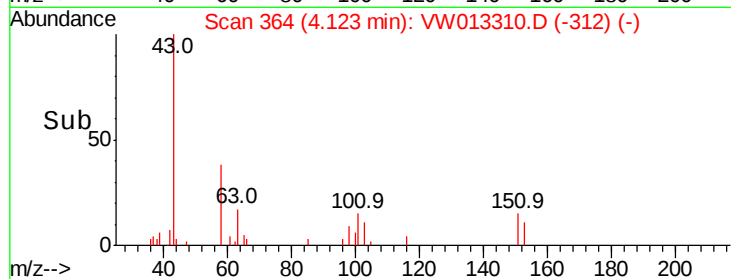
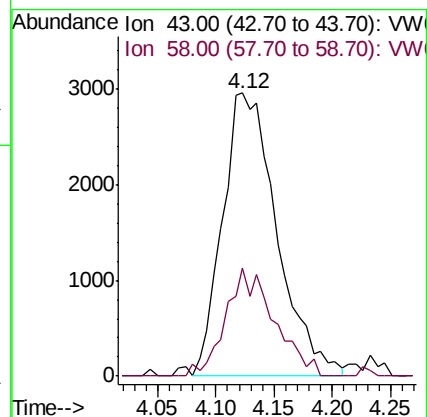
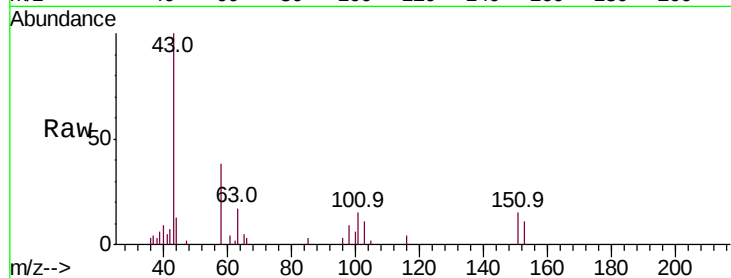
MDL06

Tot Ion: 43 Resp: 9603

Ion Ratio Lower Upper

43 100

58 15.3 0.0 63.2



#14

Carbon disulfide

Concen: 1.985 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

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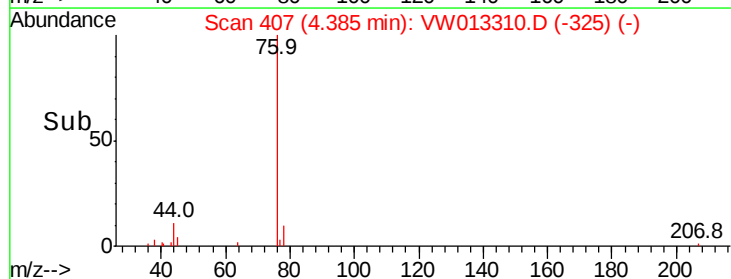
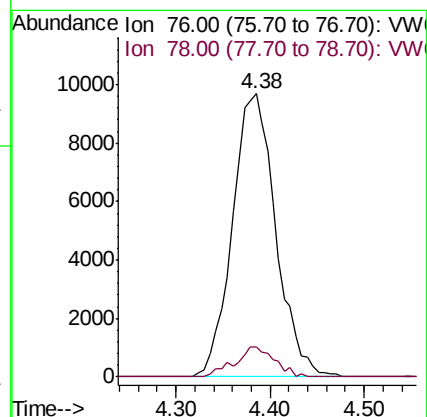
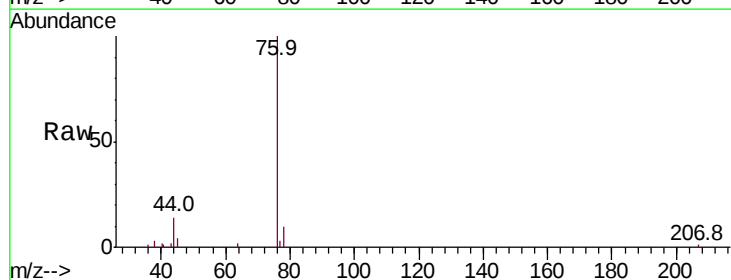
Acq: 26 Sep 2019 17:52

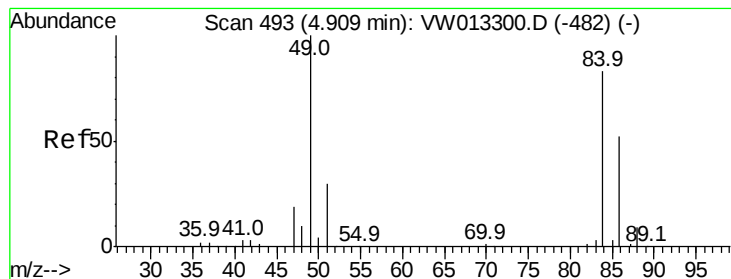
Tgt Ion: 76 Resp: 31053

Ion Ratio Lower Upper

76 100

78 10.5 7.2 10.8





#16

Methylene chloride

Concen: 3.861 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

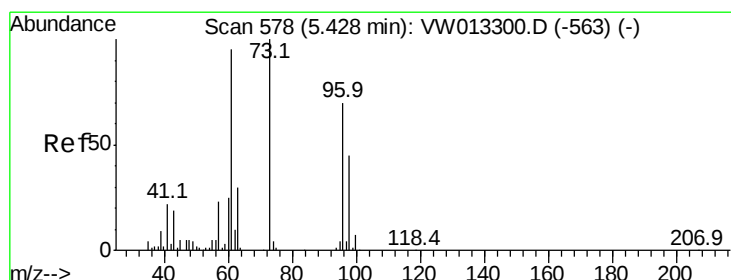
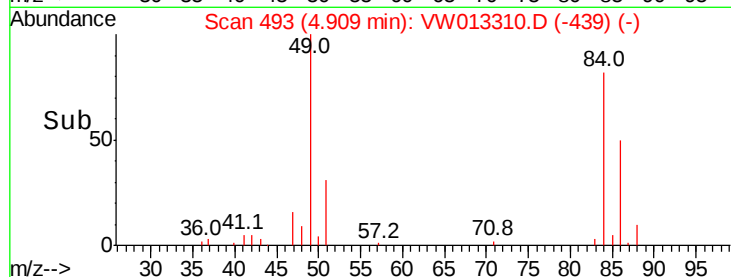
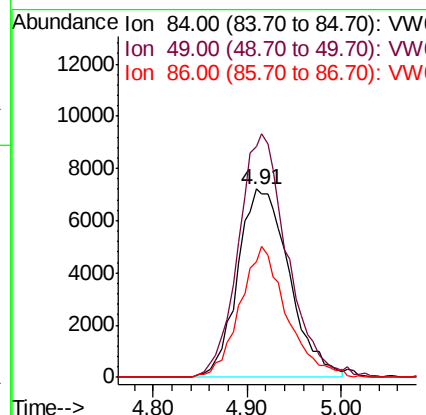
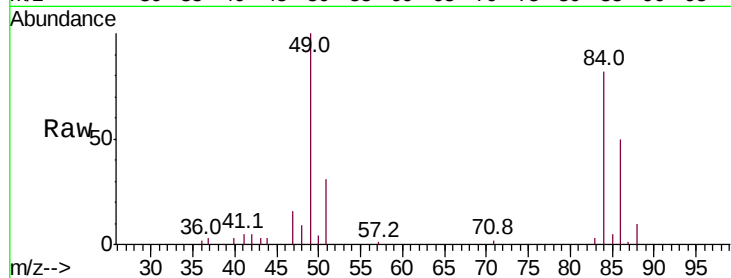
Tot Ion: 84 Resp: 27578

Ion Ratio Lower Upper

84 100

49 122.5 84.8 157.4

86 61.4 44.0 81.6



#17

Methyl tert-butyl Ether

Concen: 2.263 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

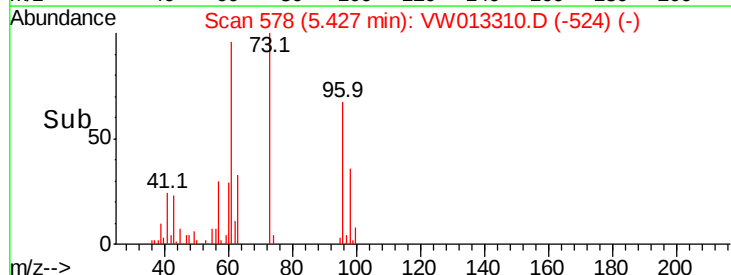
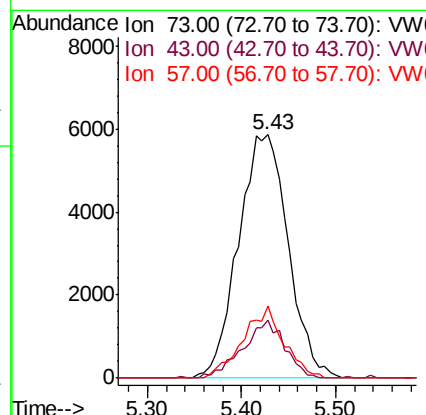
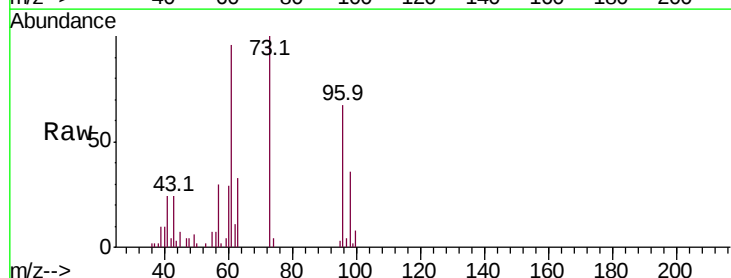
Tgt Ion: 73 Resp: 21572

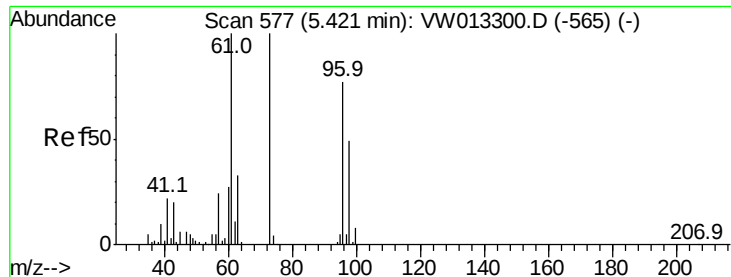
Ion Ratio Lower Upper

73 100

43 20.1 15.3 22.9

57 11.5 18.2 27.4#





#18

trans-1,2-Dichloroethene

Concen: 2.155 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

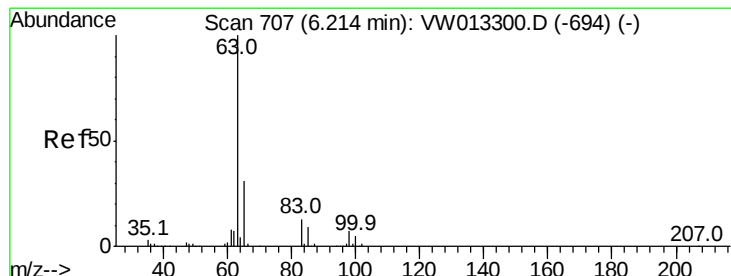
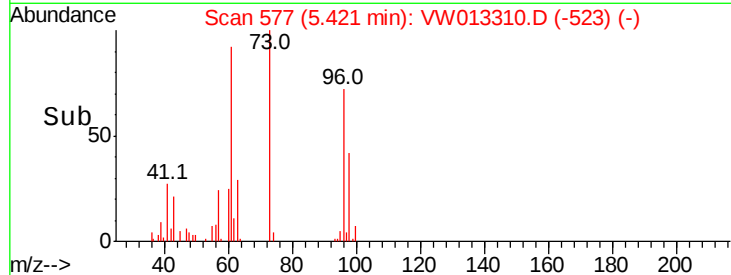
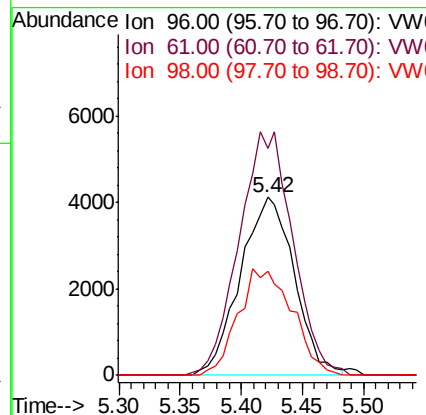
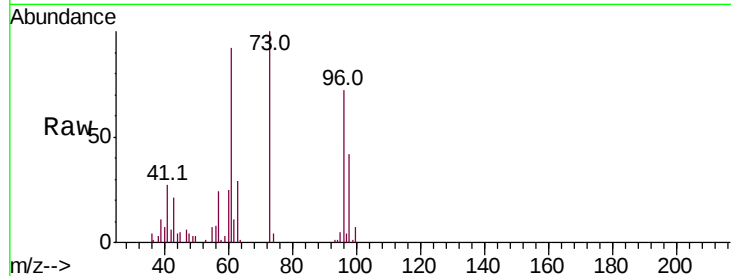
Tot Ion: 96 Resp: 12699

Ion Ratio Lower Upper

96 100

61 127.0 91.2 169.4

98 58.6 44.7 82.9



#19

1,1-Dichloroethane

Concen: 2.140 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

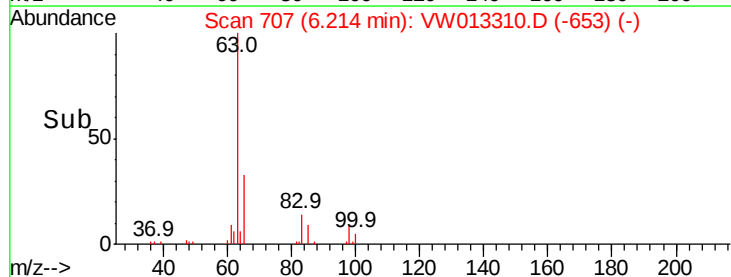
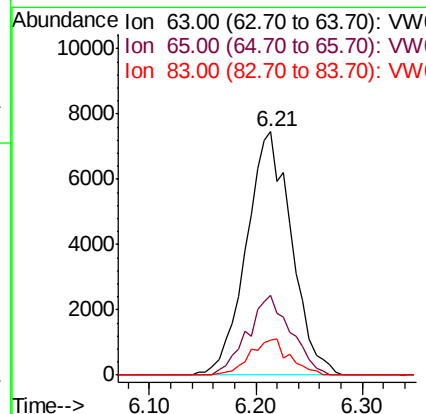
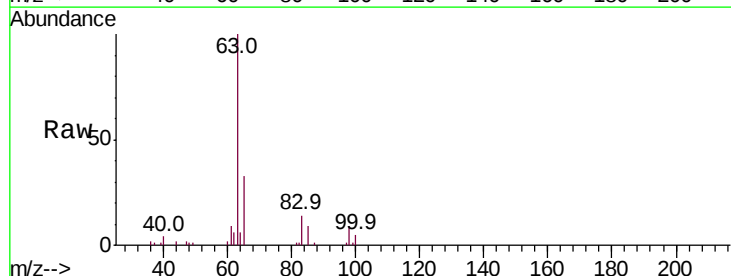
Tgt Ion: 63 Resp: 22120

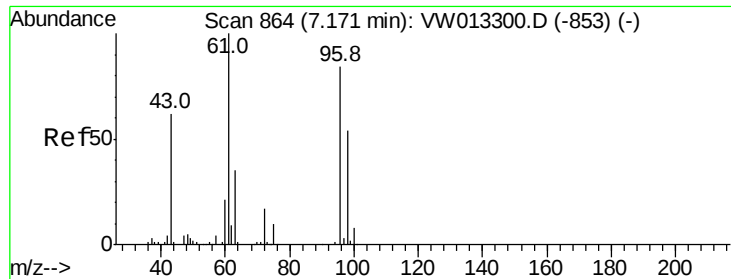
Ion Ratio Lower Upper

63 100

65 32.5 21.8 40.4

83 14.2 9.3 17.3





#21

2-Butanone

Concen: 5.585 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

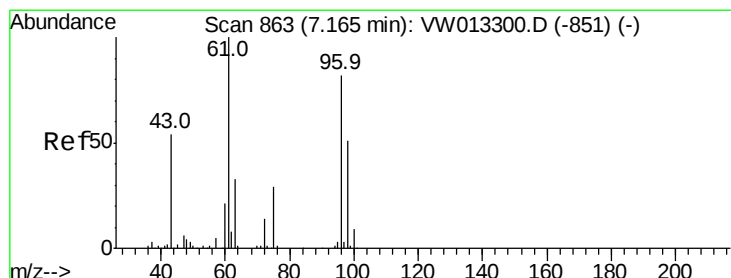
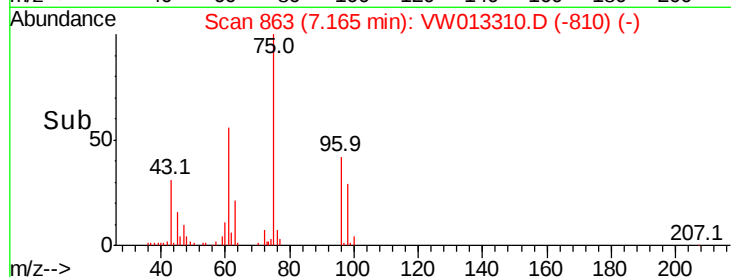
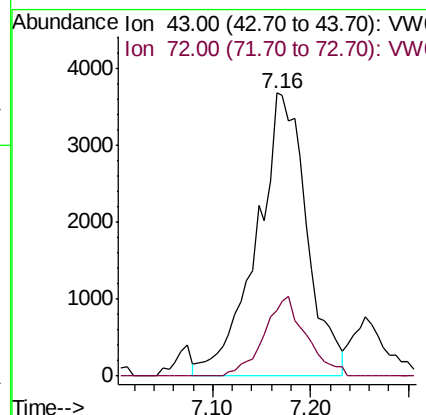
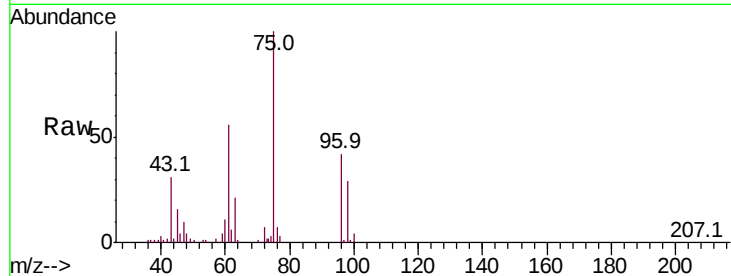
MDL06

Tot Ion: 43 Resp: 13191

Ion Ratio Lower Upper

43 100

72 23.5 13.2 39.6



#22

cis-1,2-Dichloroethene

Concen: 2.111 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

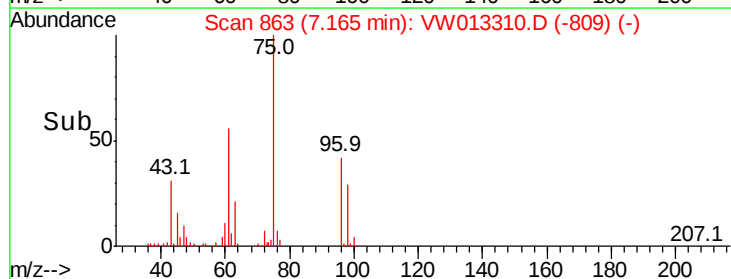
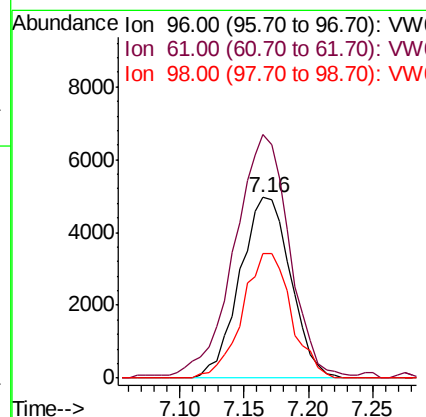
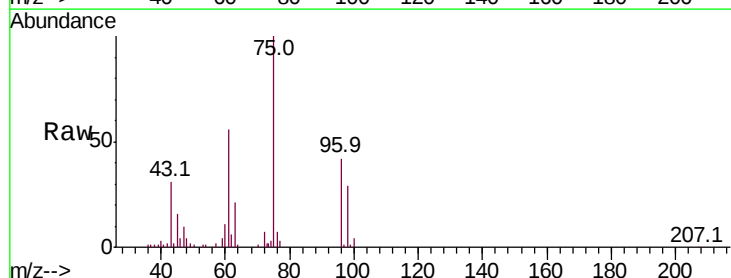
Tgt Ion: 96 Resp: 13557

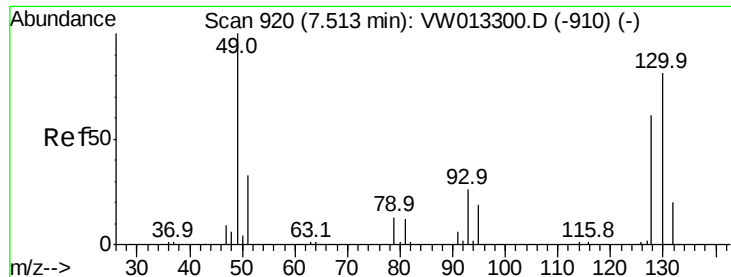
Ion Ratio Lower Upper

96 100

61 134.9 86.0 159.6

98 68.9 43.5 80.9





#23

Bromochloromethane

Concen: 2.169 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

Tot Ion:128 Resp: 6268

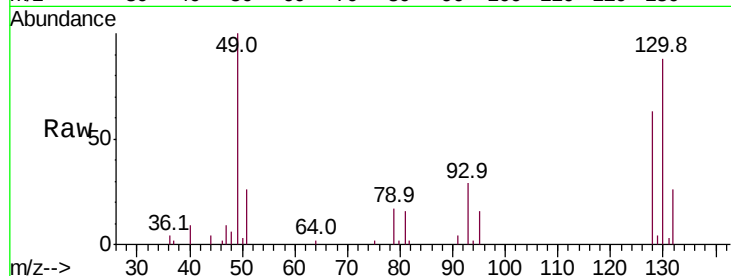
Ion Ratio Lower Upper

128 100

49 158.4 114.6 212.8

130 140.1 92.6 172.0

51 41.0 42.7 64.1#

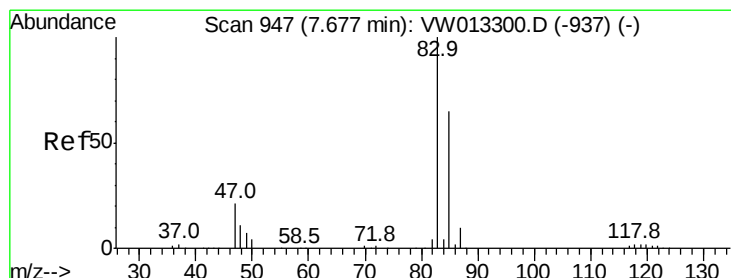
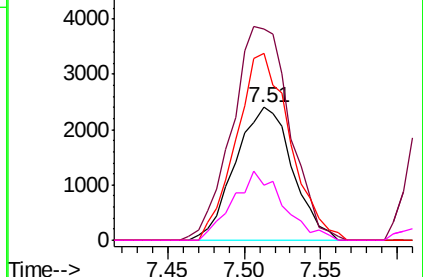
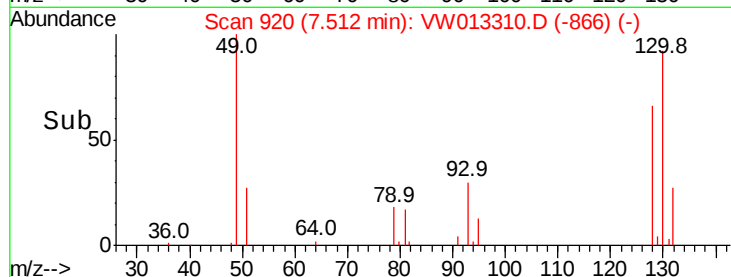


Abundance Ion 128.00 (127.70 to 128.70): V

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: 2.319 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW013310.D

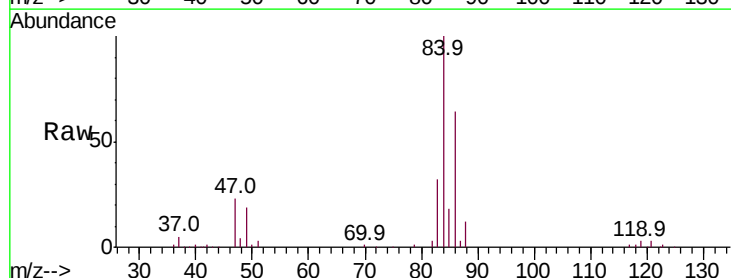
Acq: 26 Sep 2019 17:52

Tgt Ion: 83 Resp: 23551

Ion Ratio Lower Upper

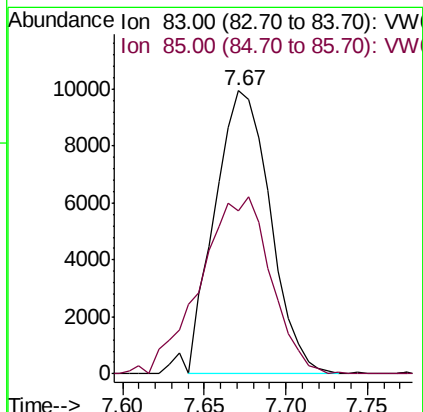
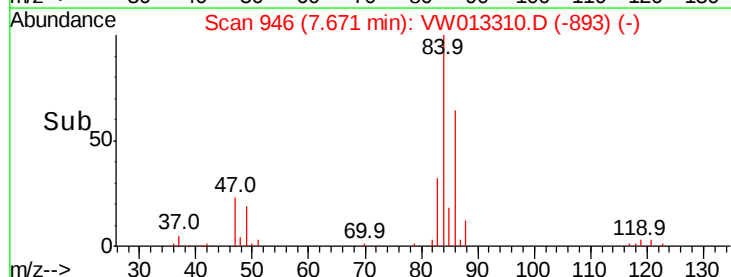
83 100

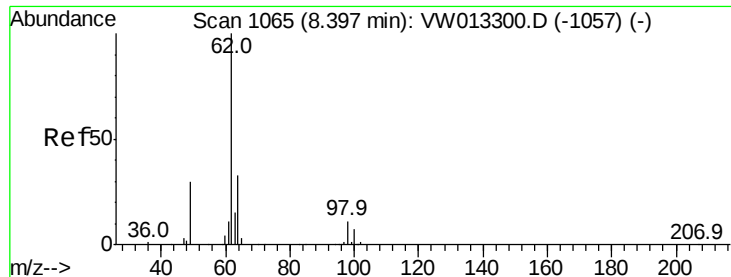
85 78.5 45.9 85.3



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 2.285 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

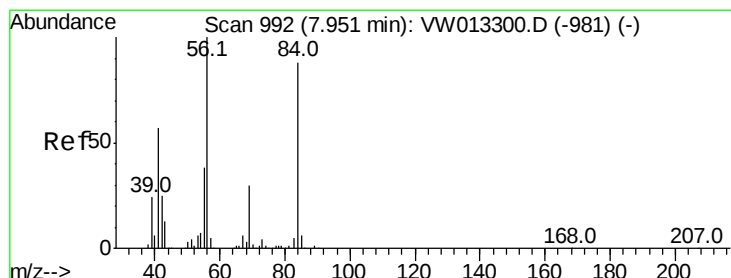
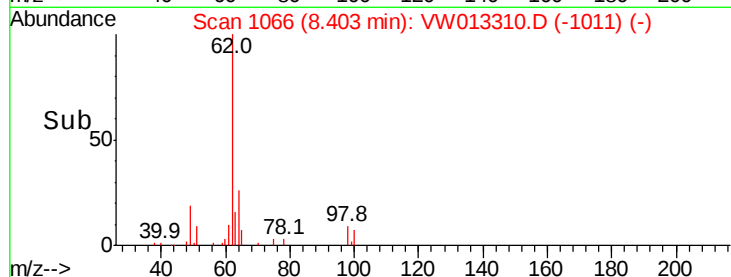
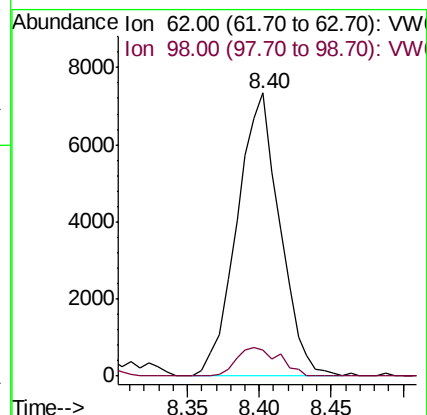
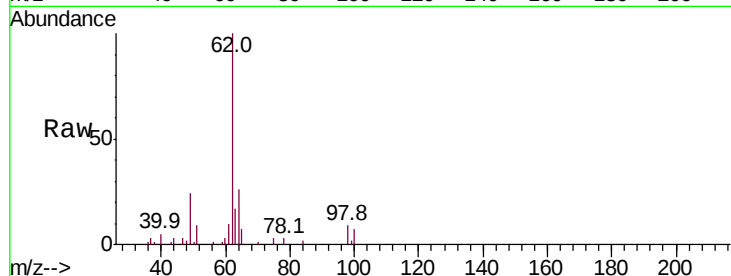
MDL06

Tot Ion: 62 Resp: 15200

Ion Ratio Lower Upper

62 100

98 9.1 9.0 13.6



#30

Cyclohexane

Concen: 2.033 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

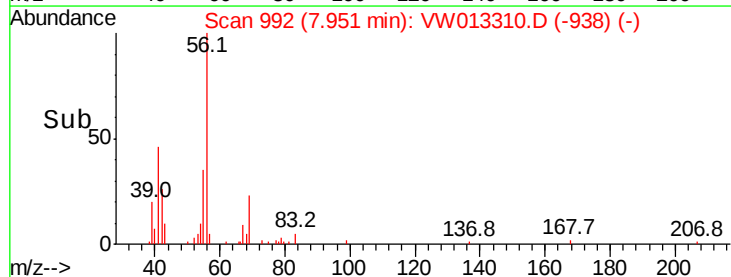
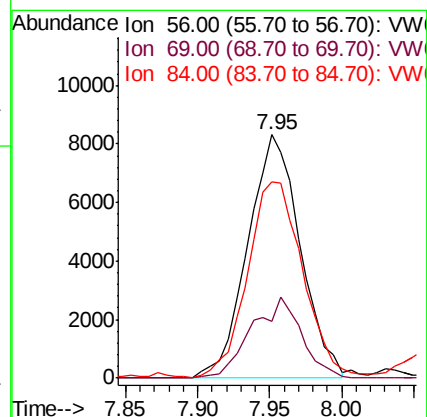
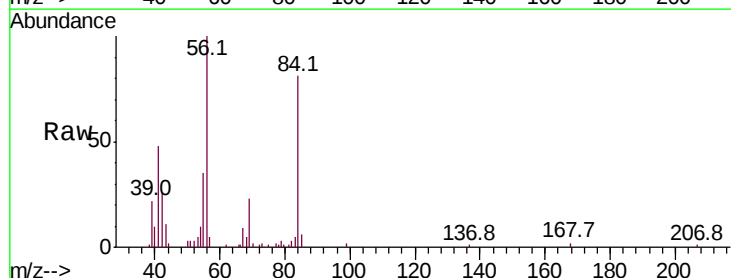
Tgt Ion: 56 Resp: 20986

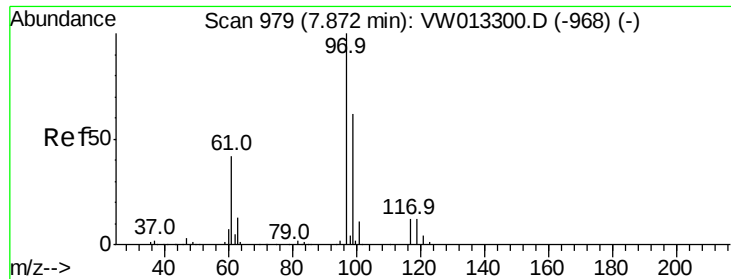
Ion Ratio Lower Upper

56 100

69 16.0 24.6 37.0#

84 85.8 69.5 104.3

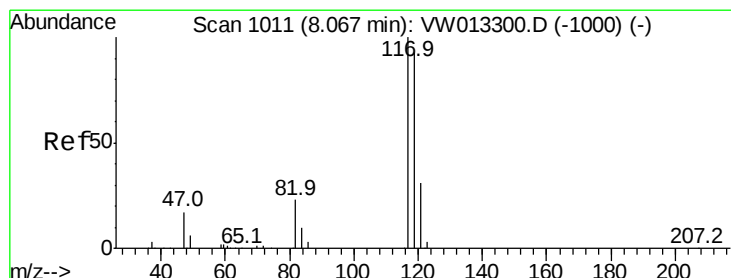
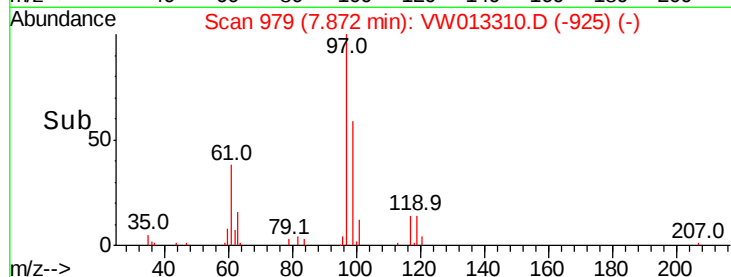
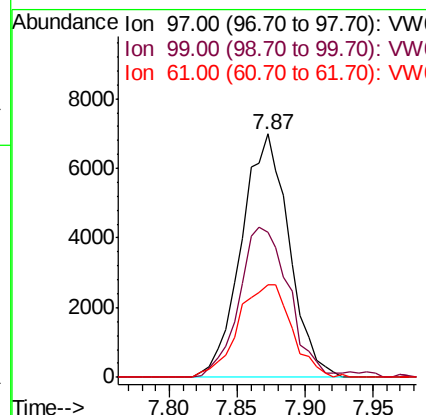
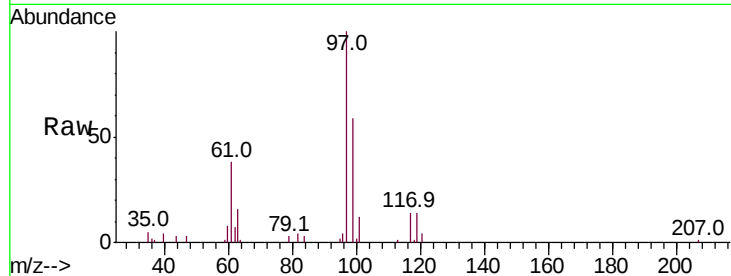




#31
 1,1,1-Trichloroethane
 Concen: 2.076 ug/L
 RT: 7.87 min Scan# 979
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

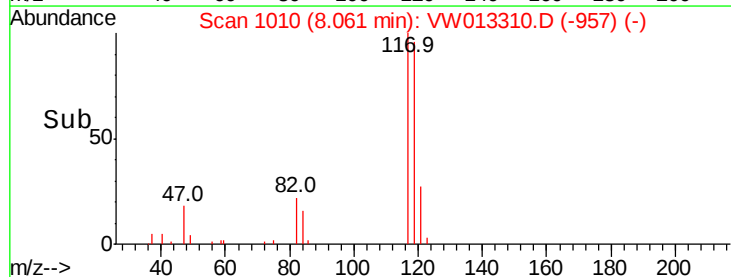
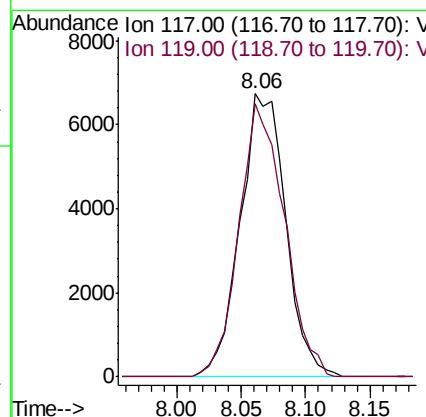
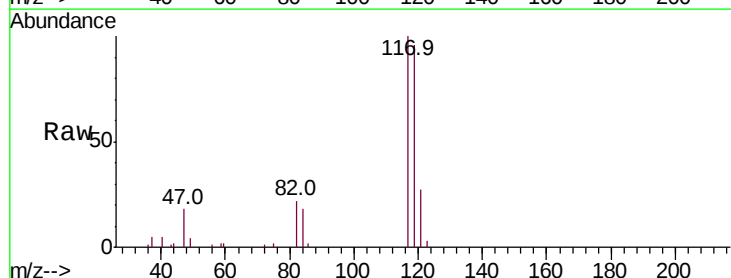
Instrument :
 MSVOA_W
 ClientSampled :
 MDL06

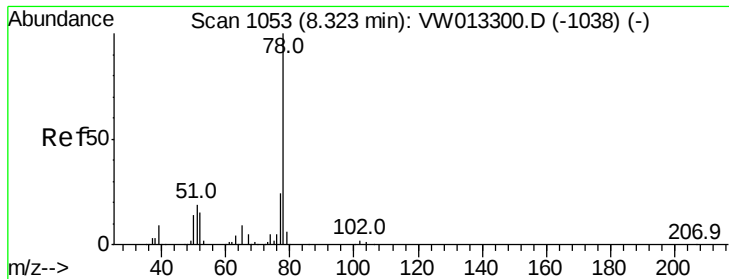
Tot Ion: 97 Resp: 17128
 Ion Ratio Lower Upper
 97 100
 99 64.1 50.6 75.8
 61 42.6 34.2 51.2



#32
 Carbon tetrachloride
 Concen: 2.098 ug/L
 RT: 8.06 min Scan# 1010
 Delta R.T. -0.01 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Tgt Ion: 117 Resp: 16499
 Ion Ratio Lower Upper
 117 100
 119 96.5 76.7 115.1





#34

Benzene

Concen: 2.231 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

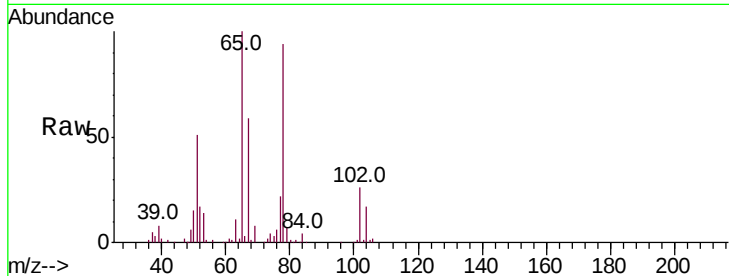
Instrument :

MSVOA_W

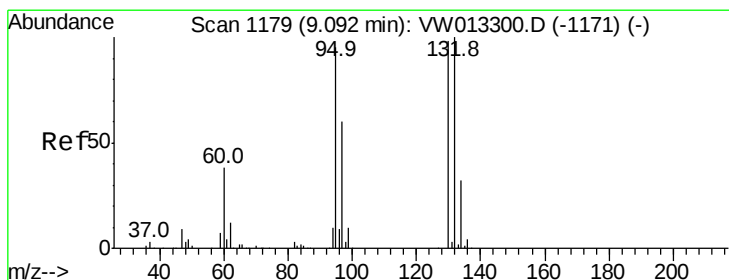
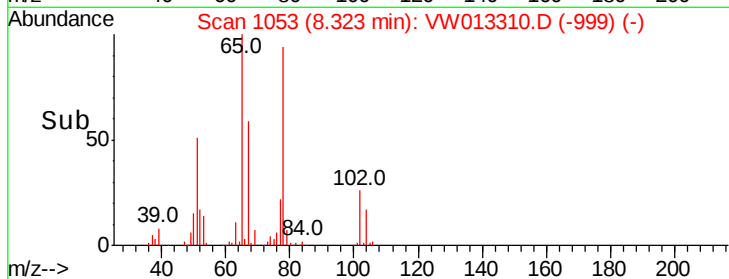
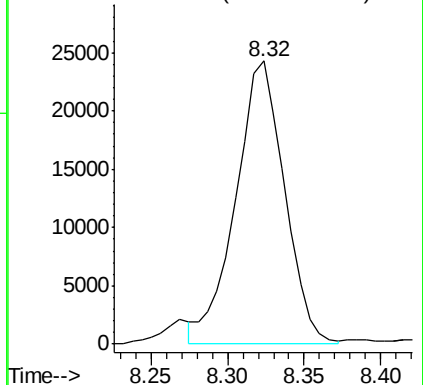
ClientSampleId :

MDL06

Tgt Ion: 78 Resp: 53765



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.155 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Tgt Ion: 95 Resp: 13641

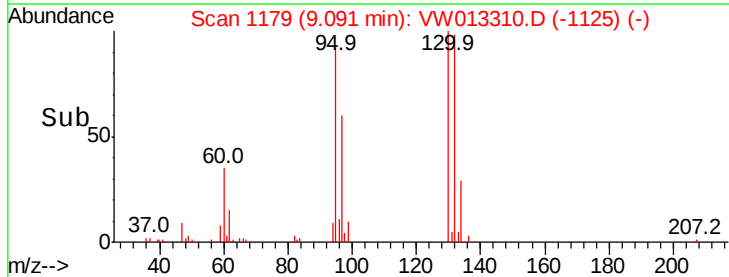
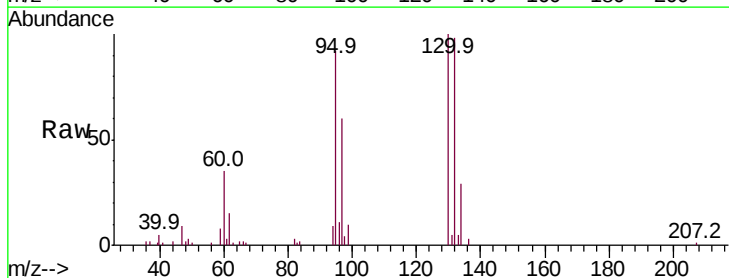
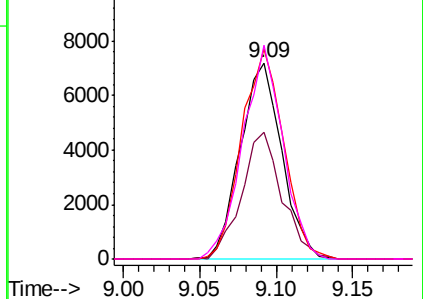
Ion	Ratio	Lower	Upper
95	100		
97	63.0	44.3	82.3
132	107.7	71.7	133.3
130	104.8	74.1	137.7

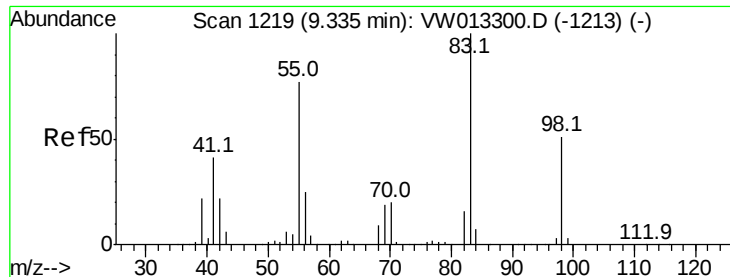
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

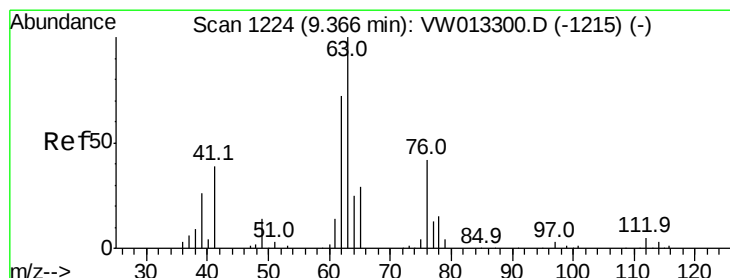
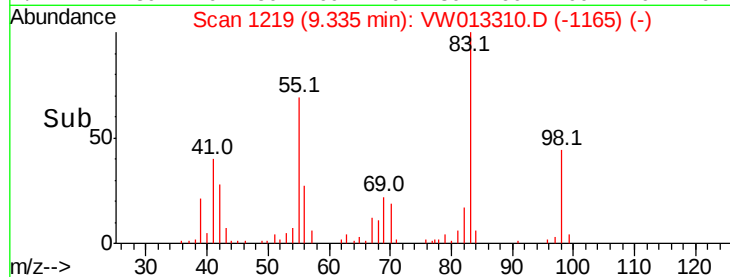
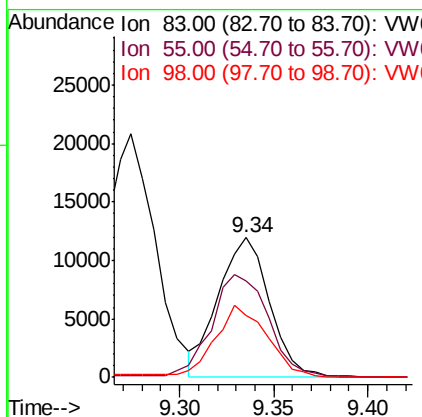
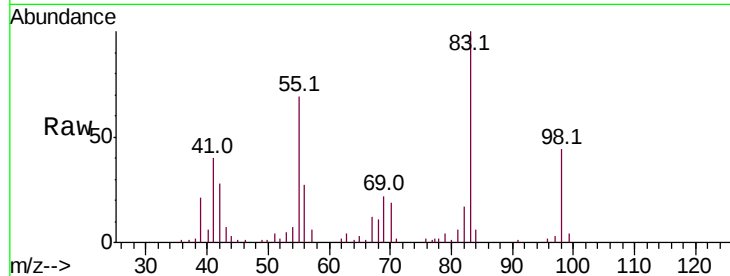




#36
Methvlcvclohexane
Concen: 2.006 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

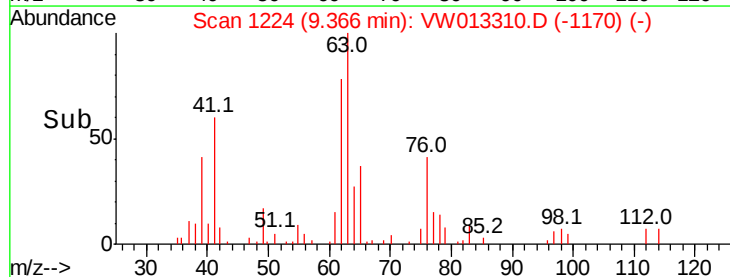
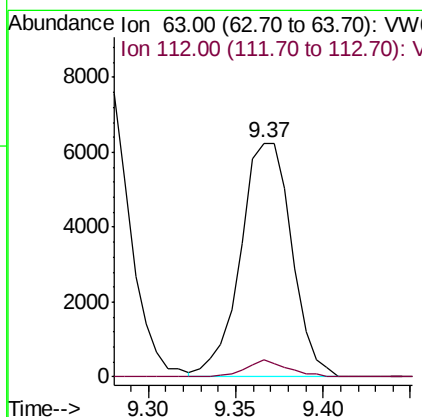
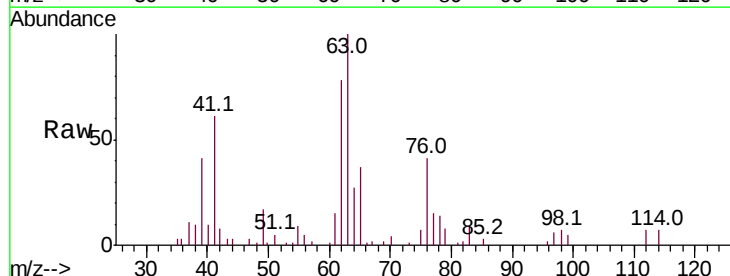
Instrument :
MSVOA_W
ClientSampleId :
MDL06

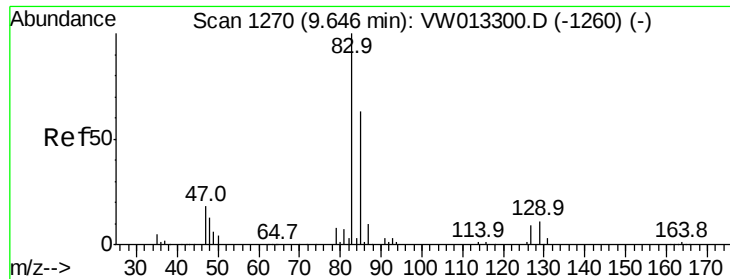
Tot Ion: 83 Resp: 22621
Ion Ratio Lower Upper
83 100
55 81.7 61.8 92.6
98 51.8 39.6 59.4



#40
1,2-Dichloropropane
Concen: 2.164 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion: 63 Resp: 12831
Ion Ratio Lower Upper
63 100
112 5.9 4.1 6.1





#41

Bromodichloromethane

Concen: 2.155 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

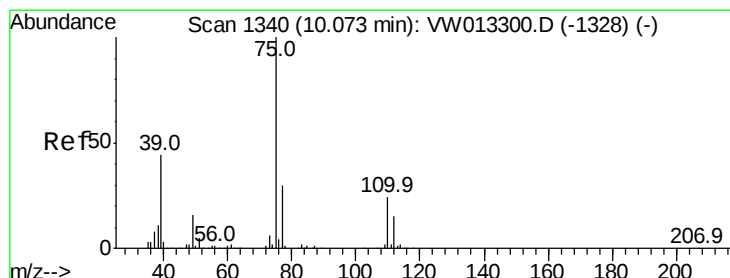
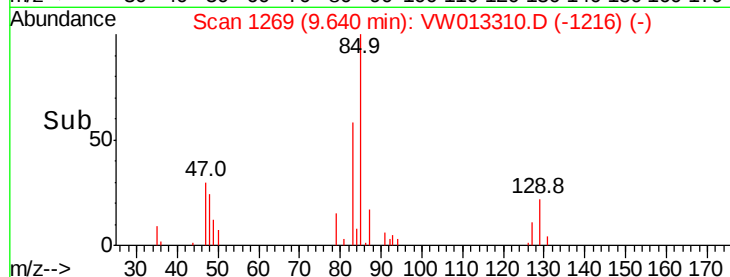
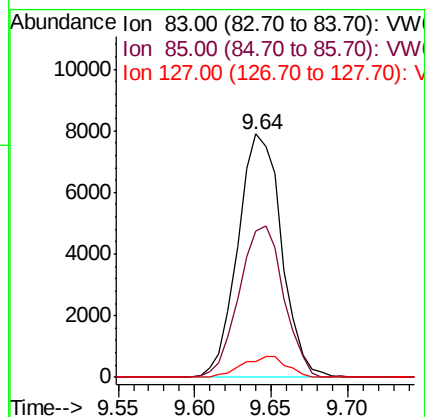
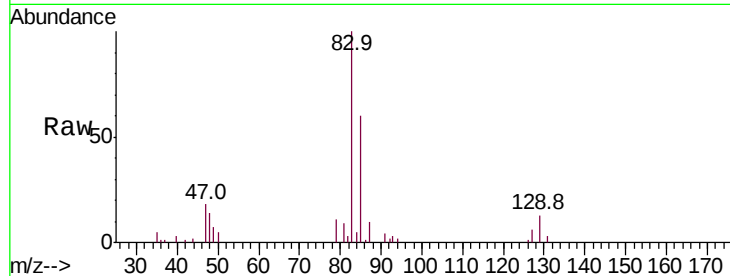
Tot Ion: 83 Resp: 15675

Ion Ratio Lower Upper

83 100

85 60.1 43.8 81.4

127 6.4 7.0 10.6#



#42

cis-1,3-Dichloropropene

Concen: 2.077 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013310.D

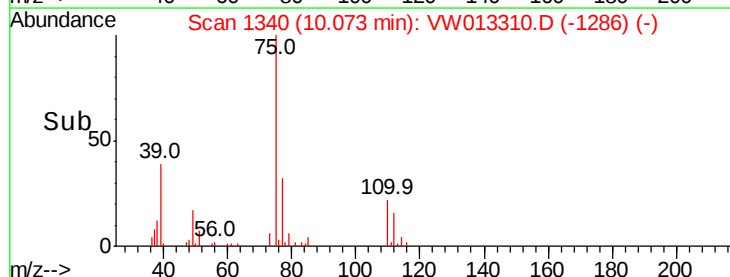
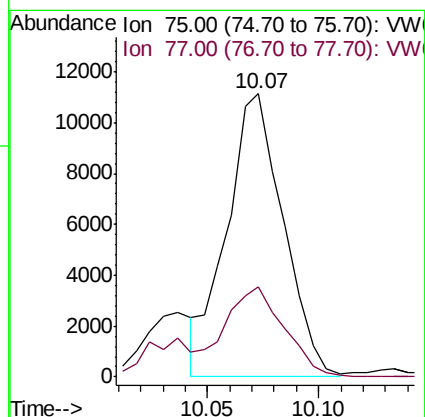
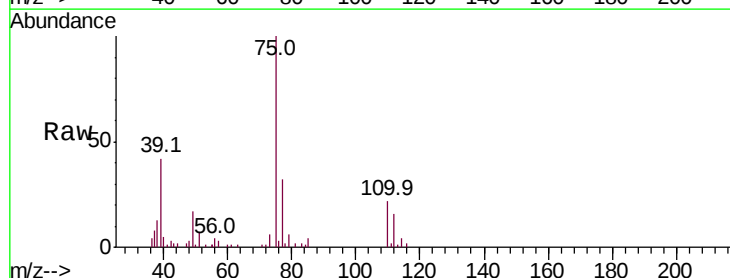
Acq: 26 Sep 2019 17:52

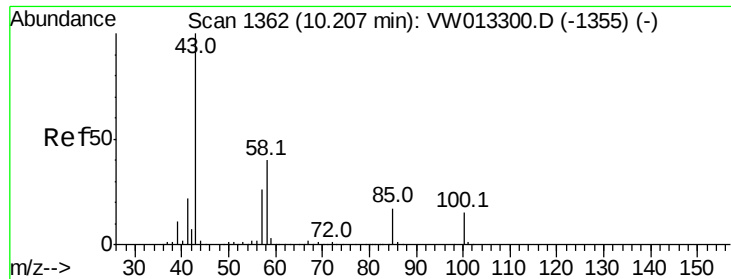
Tgt Ion: 75 Resp: 19664

Ion Ratio Lower Upper

75 100

77 31.6 21.3 39.5

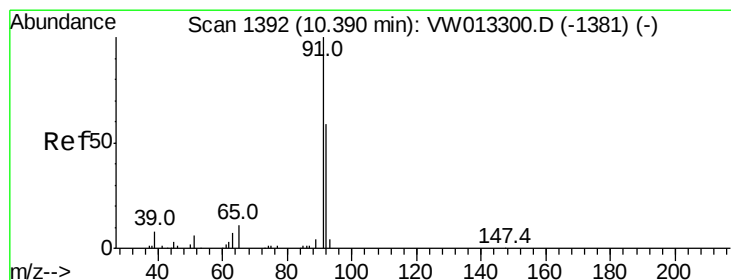
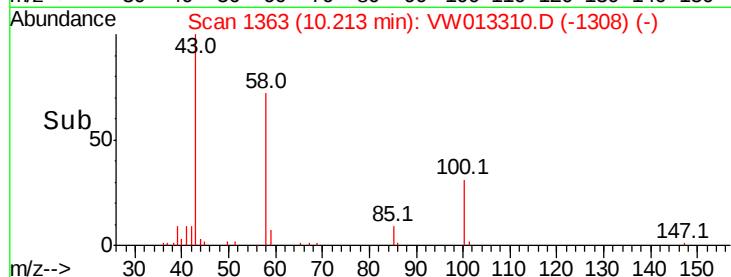
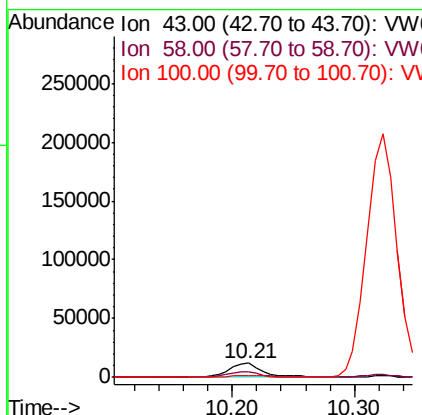
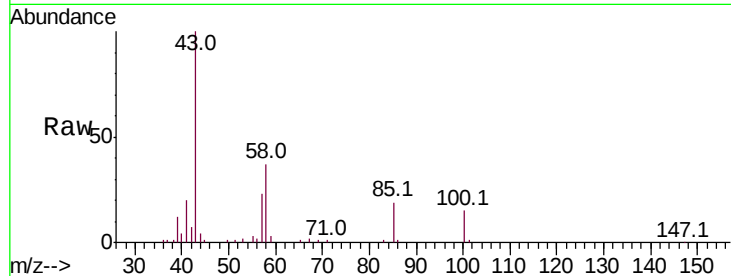




#43
4-Methyl-2-pentanone
Concen: 5.227 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

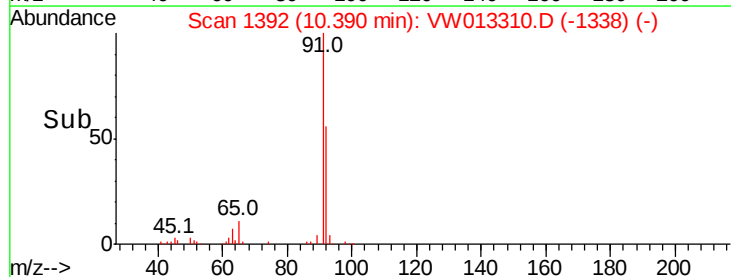
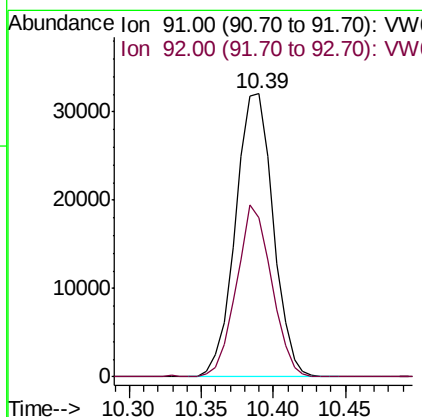
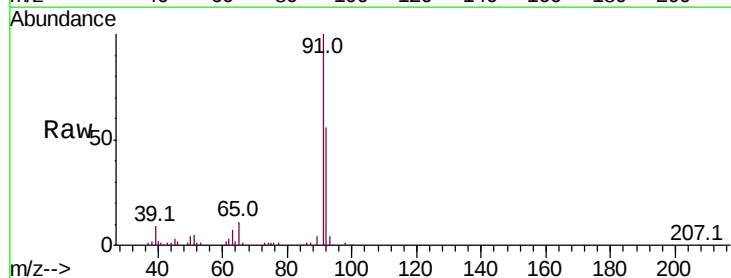
Instrument :
MSVOA_W
ClientSampled :
MDL06

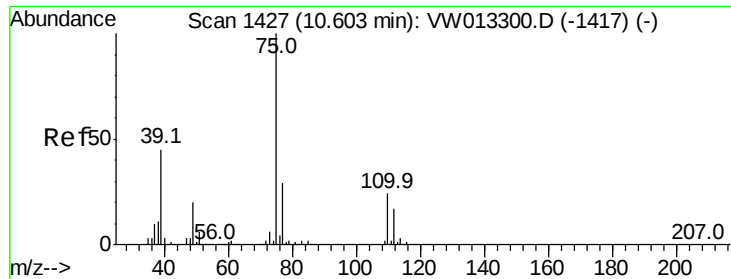
Tot Ion: 43 Resp: 23721
Ion Ratio Lower Upper
43 100
58 37.6 32.7 49.1
100 14.1 12.9 19.3



#44
Toluene
Concen: 2.232 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW013310.D
Acq: 26 Sep 2019 17:52

Tgt Ion: 91 Resp: 58543
Ion Ratio Lower Upper
91 100
92 56.0 41.5 77.1





#45

trans-1,3-Dichloropropene

Concen: 2.531 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

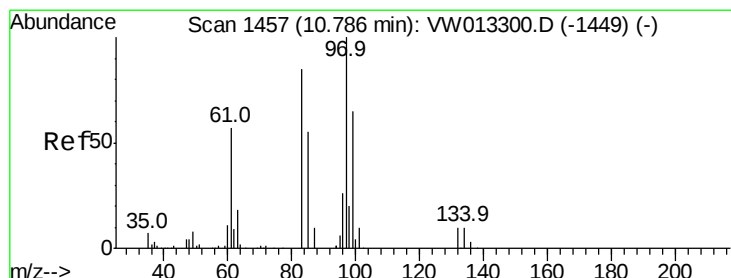
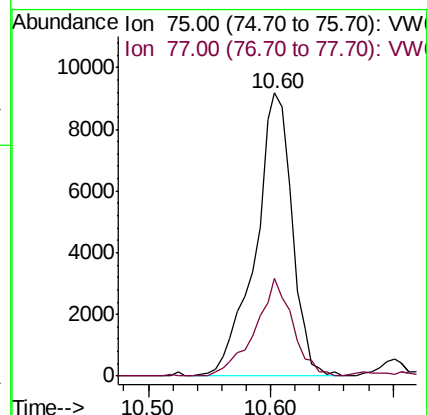
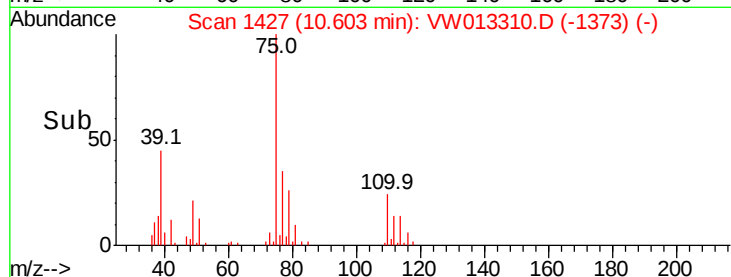
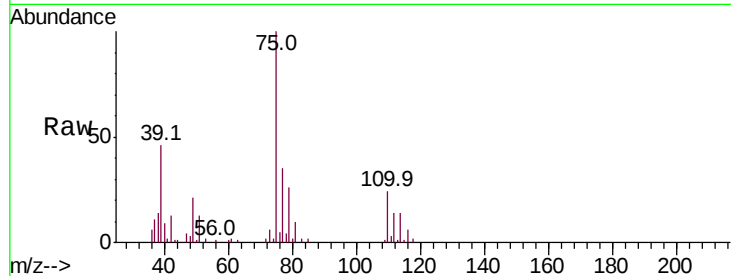
MDL06

Tot Ion: 75 Resp: 19266

Ion Ratio Lower Upper

75 100

77 34.8 20.5 38.1



#46

1,1,2-Trichloroethane

Concen: 2.087 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Tgt Ion: 97 Resp: 9694

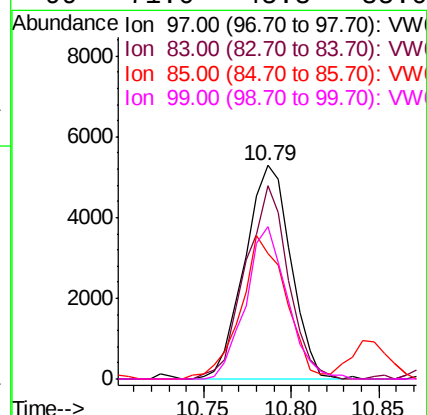
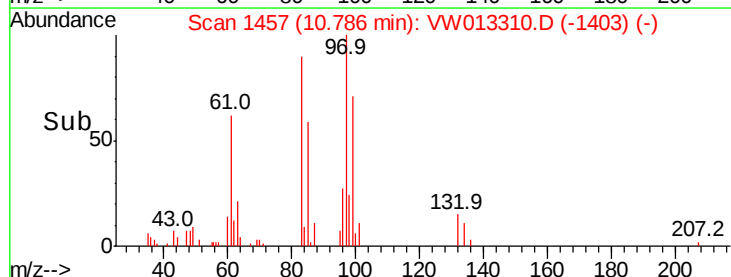
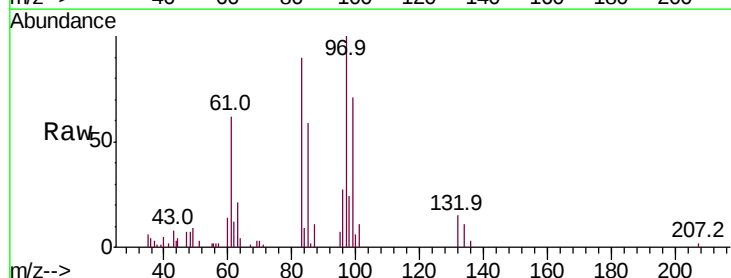
Ion Ratio Lower Upper

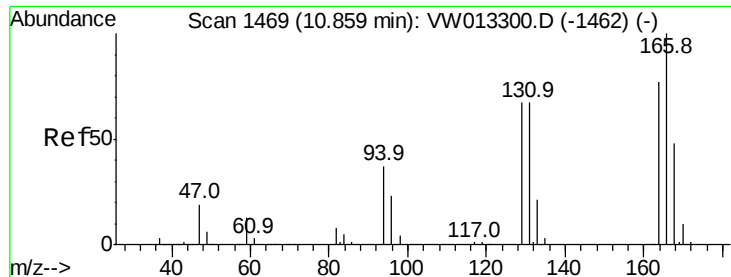
97 100

83 90.4 59.4 110.2

85 58.9 38.7 71.9

99 71.0 45.8 85.0





#47

Tetrachloroethene

Concen: 2.187 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

Tot Ion:164 Resp: 12458

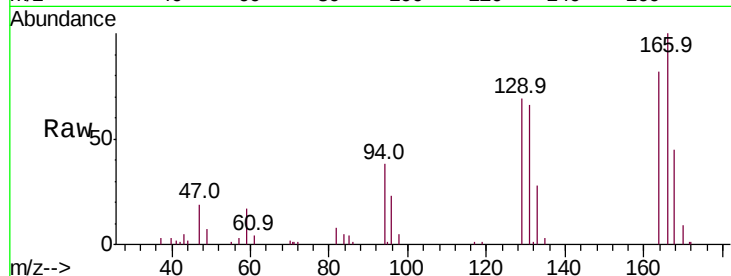
Ion Ratio Lower Upper

164 100

129 84.3 60.5 112.5

131 81.1 60.6 112.6

166 122.4 90.6 168.2

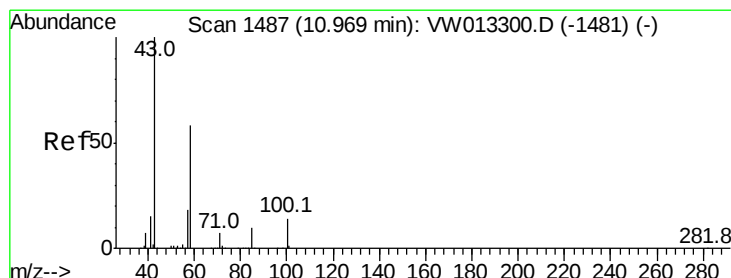
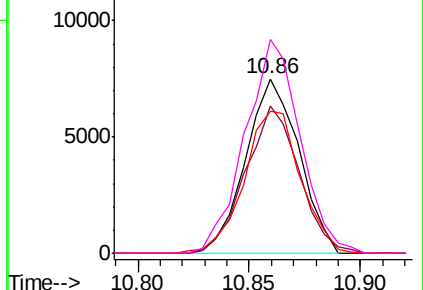
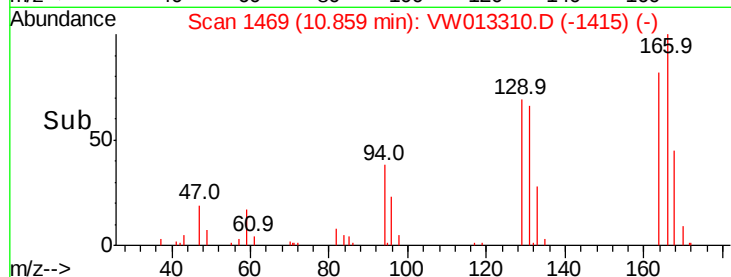


Abundance Ion 164.00 (163.70 to 164.70): V

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: 4.371 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Tgt Ion: 43 Resp: 14259

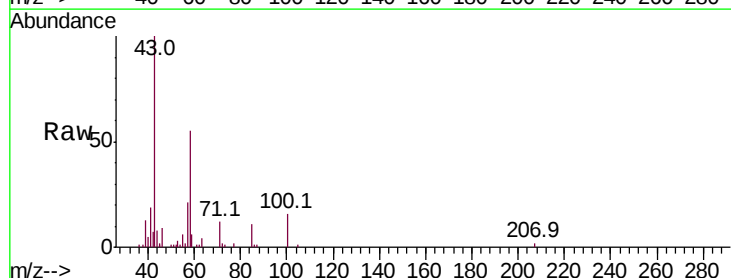
Ion Ratio Lower Upper

43 100

58 57.4 44.3 66.5

57 18.5 15.3 22.9

100 13.5 10.6 15.8

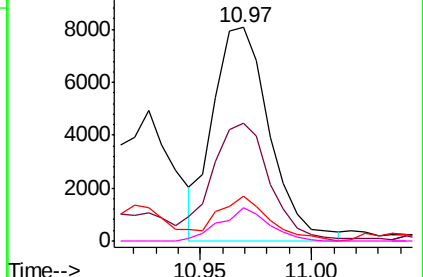
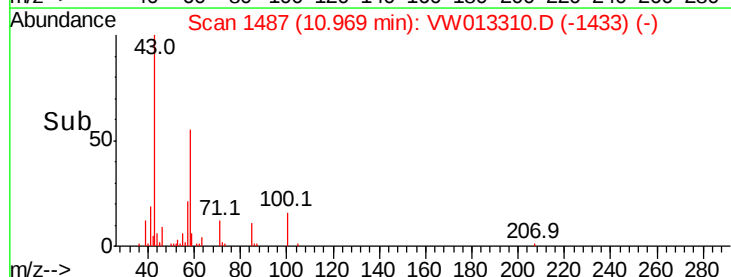


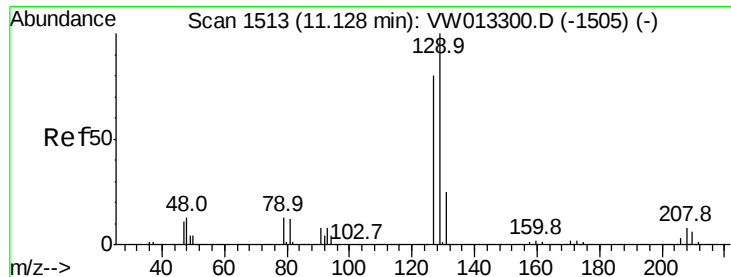
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 2.080 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

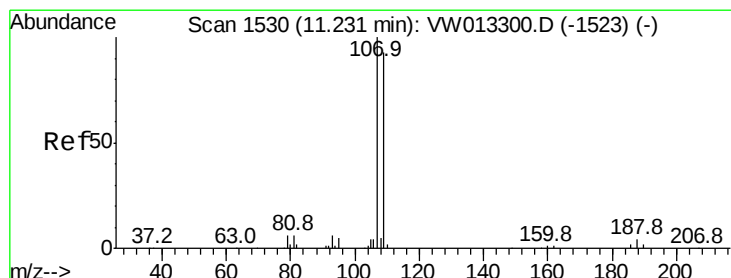
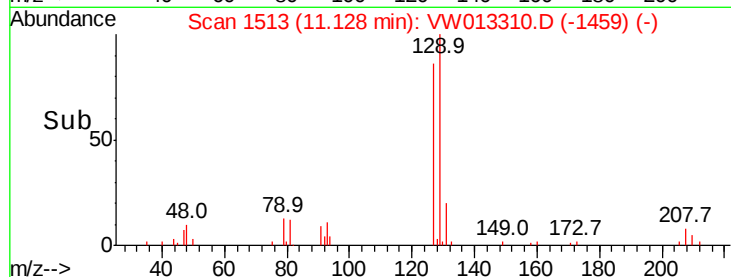
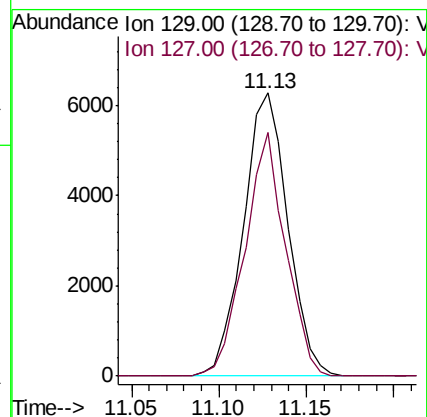
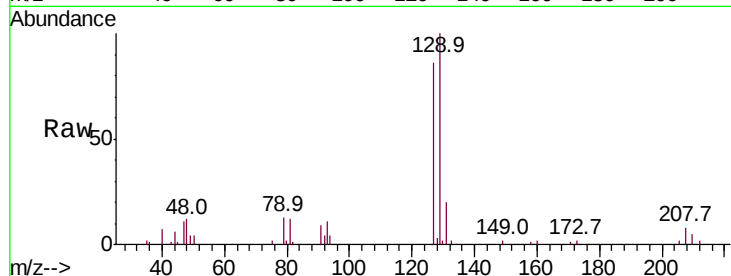
MDL06

Tot Ion:129 Resp: 11079

Ion Ratio Lower Upper

129 100

127 86.2 56.1 104.1



#51

1,2-Dibromoethane

Concen: 2.140 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

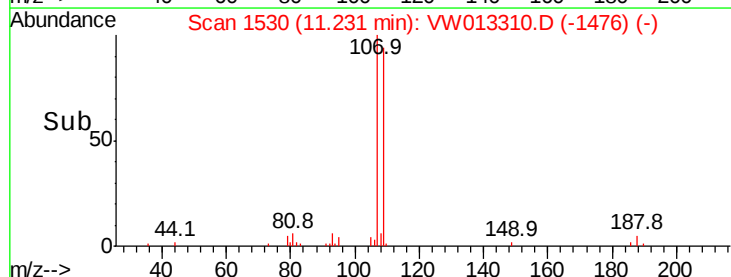
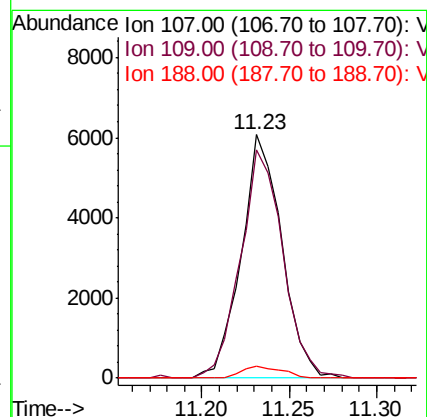
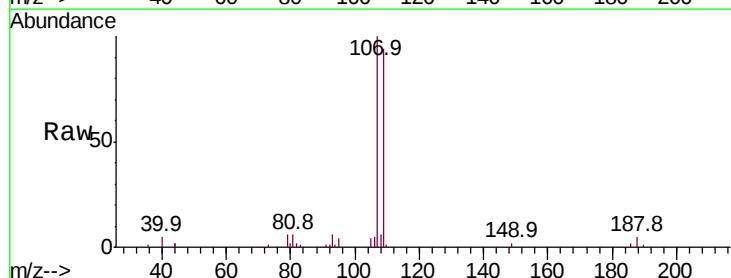
Tgt Ion:107 Resp: 9765

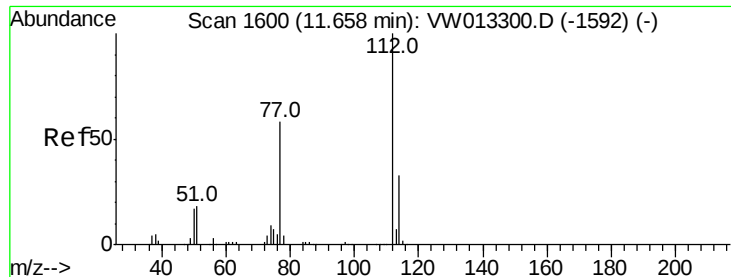
Ion Ratio Lower Upper

107 100

109 93.5 65.5 121.6

188 5.1 3.0 4.6#





#52

Chlorobenzene

Concen: 2.149 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

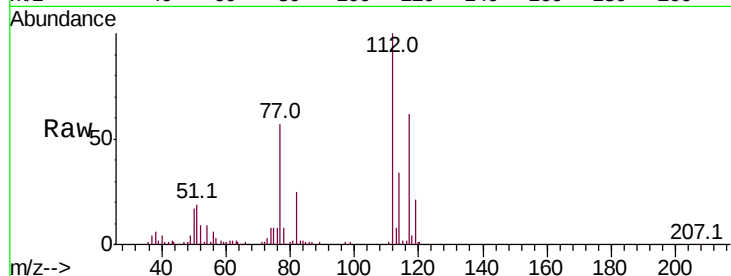
Tot Ion:112 Resp: 35516

Ion Ratio Lower Upper

112 100

77 57.4 46.5 69.7

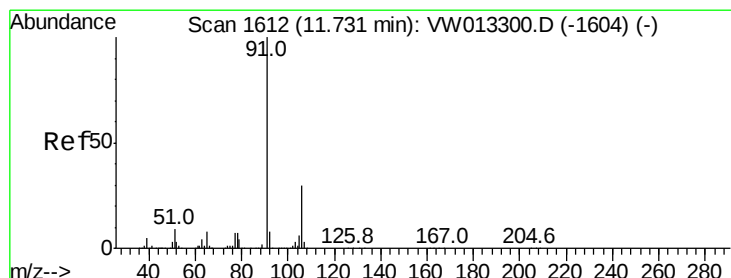
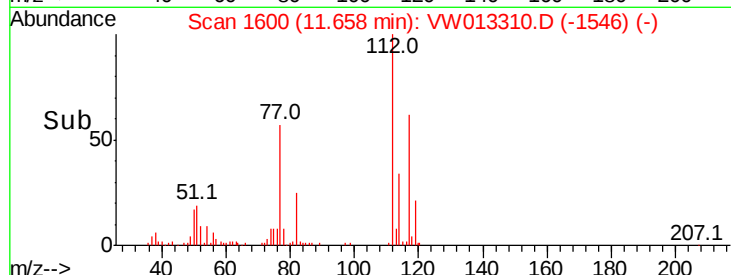
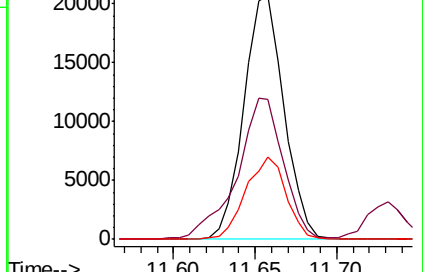
114 33.9 23.0 42.8



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: 2.117 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013310.D

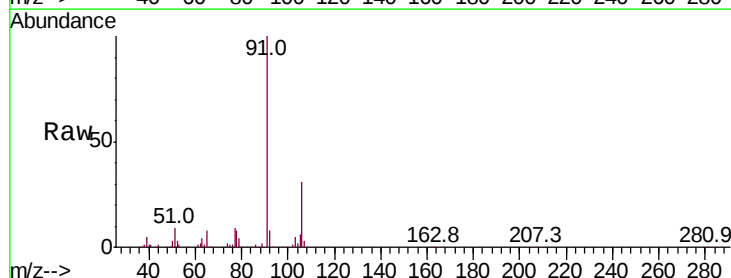
Acq: 26 Sep 2019 17:52

Tgt Ion: 91 Resp: 61549

Ion Ratio Lower Upper

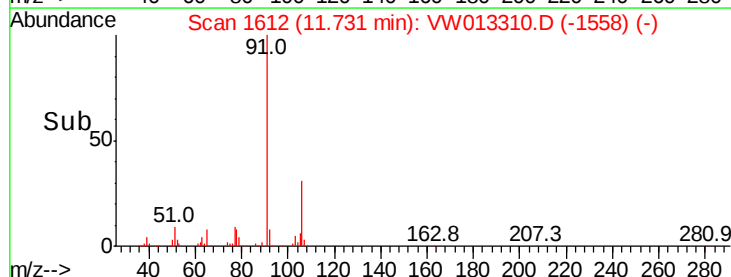
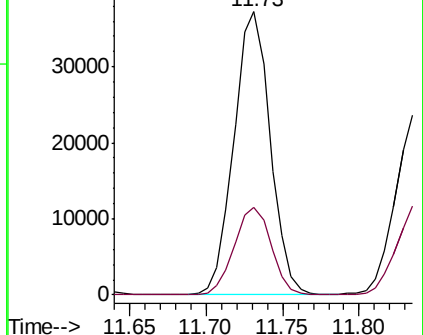
91 100

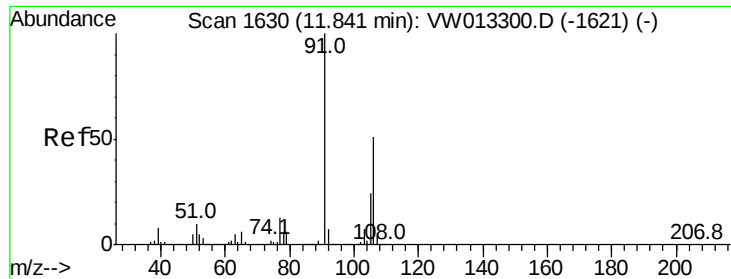
106 31.1 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 1.979 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

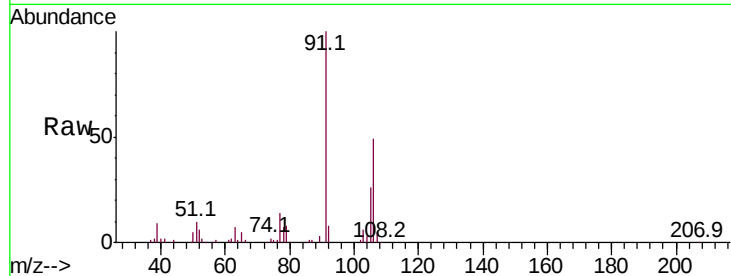
MDL06

Tot Ion:106 Resp: 22098

Ion Ratio Lower Upper

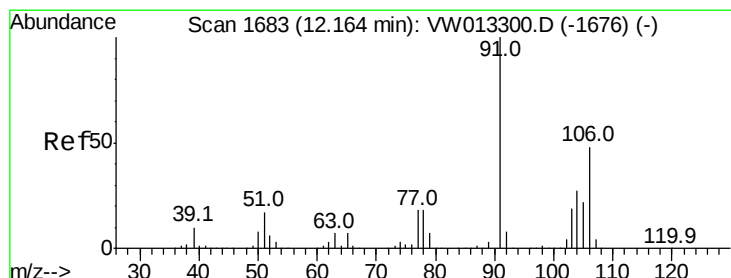
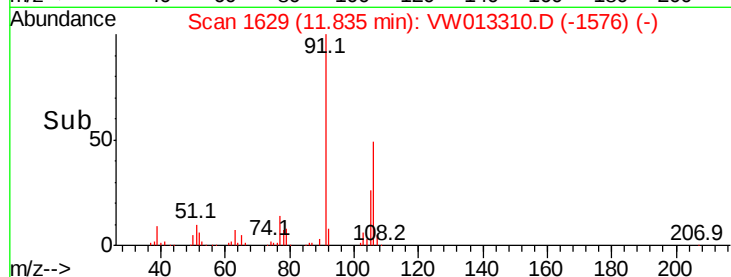
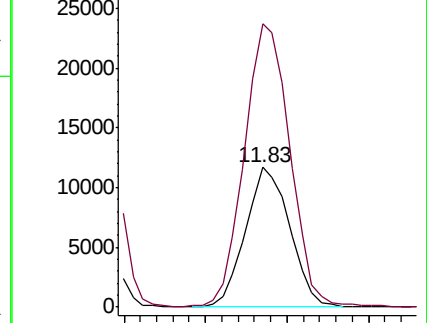
106 100

91 202.8 138.3 256.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 2.092 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013310.D

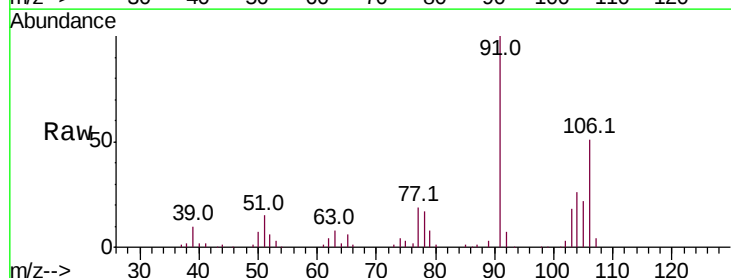
Acq: 26 Sep 2019 17:52

Tgt Ion:106 Resp: 22042

Ion Ratio Lower Upper

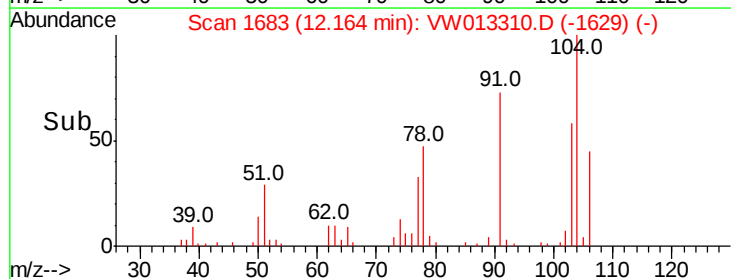
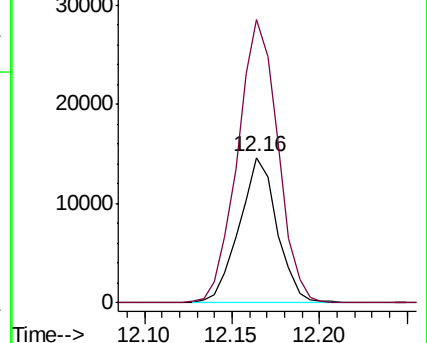
106 100

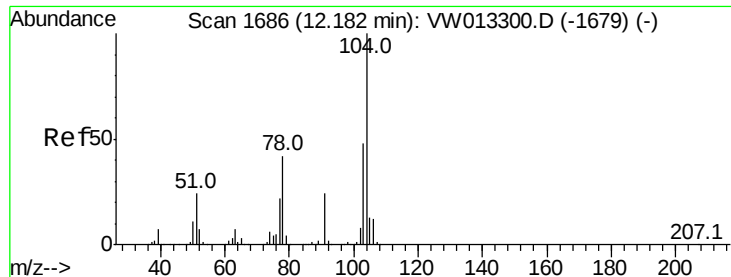
91 194.8 145.9 271.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 2.081 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

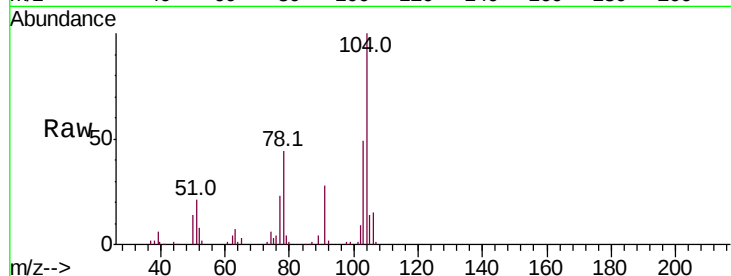
MDL06

Tot Ion:104 Resp: 37598

Ion Ratio Lower Upper

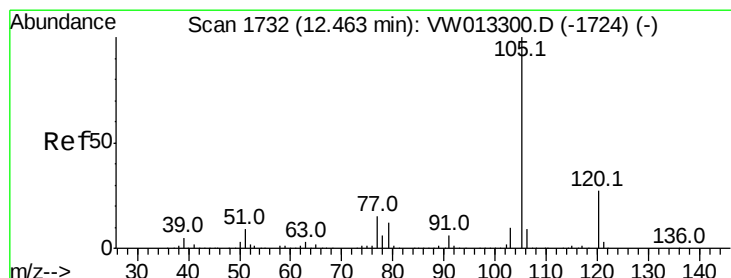
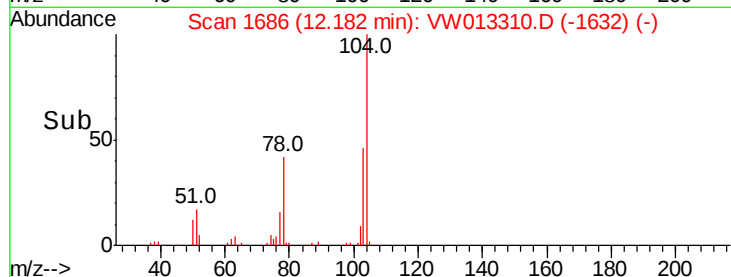
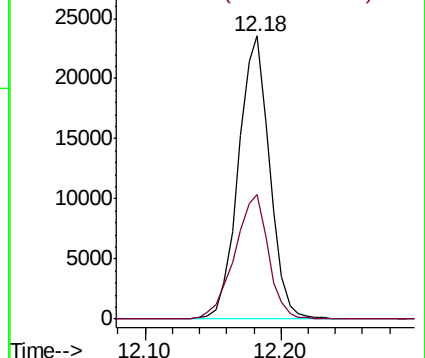
104 100

78 44.2 29.8 55.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V



#57

Isopropylbenzene

Concen: 2.071 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

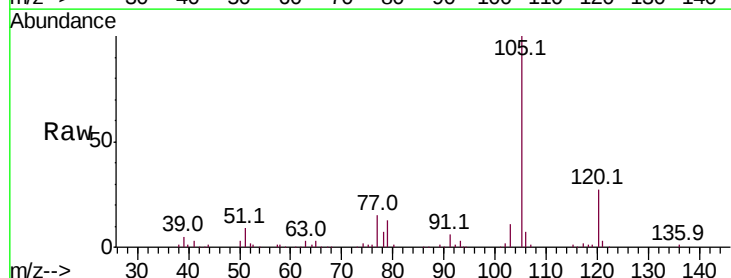
Tgt Ion:105 Resp: 59010

Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.2

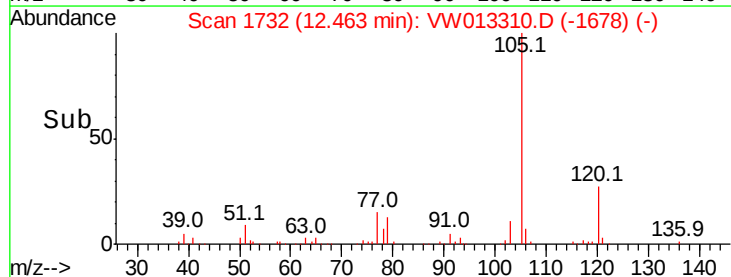
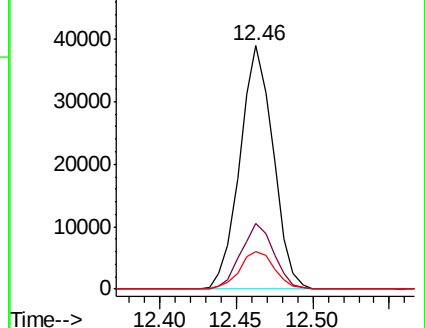
77 16.1 11.8 17.6

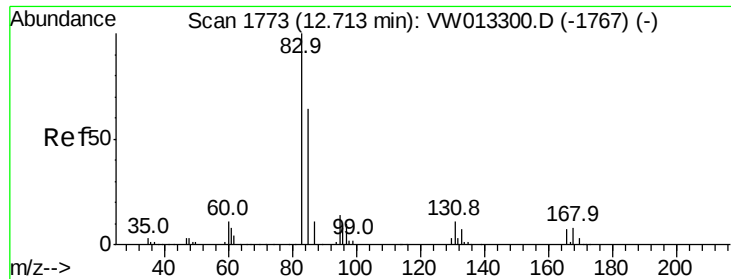


Abundance Ion 105.00 (104.70 to 105.70): V

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: 2.244 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

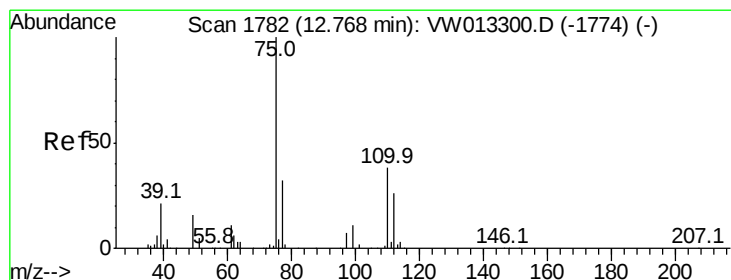
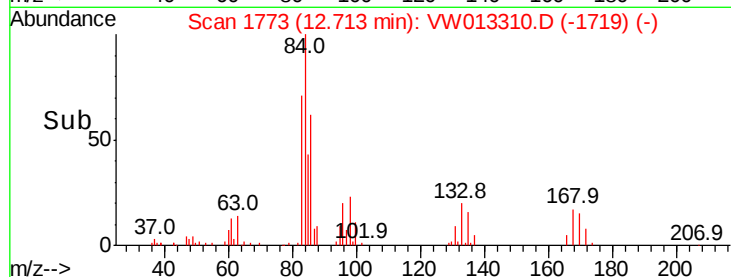
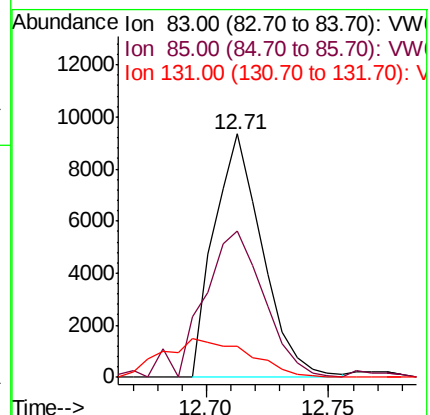
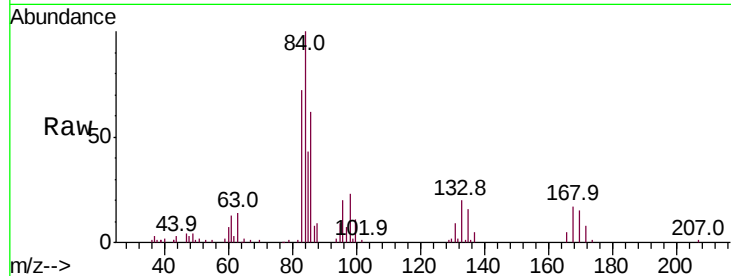
Tot Ion: 83 Resp: 12842

Ion Ratio Lower Upper

83 100

85 60.1 45.2 84.0

131 12.6 8.9 13.3



#59

1,2,3-Trichloropropane

Concen: 2.323 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013310.D

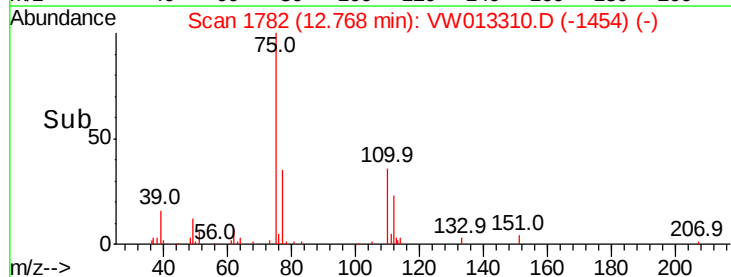
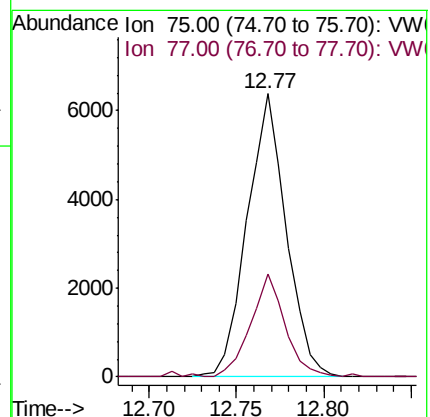
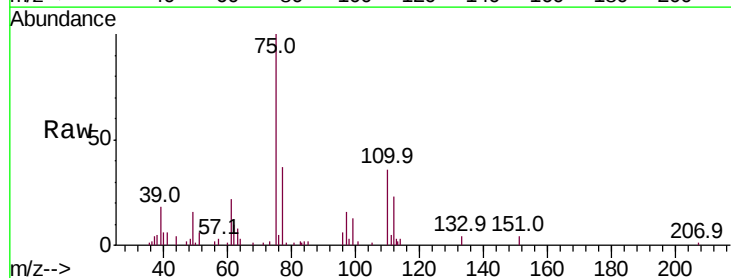
Acq: 26 Sep 2019 17:52

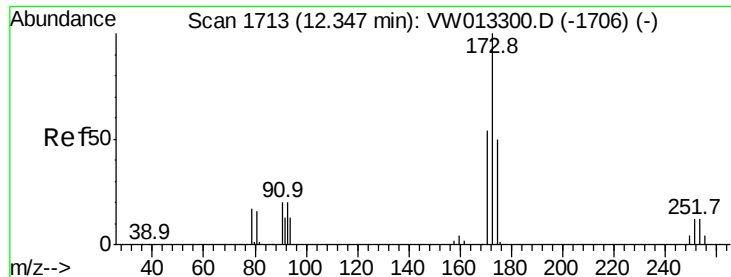
Tgt Ion: 75 Resp: 9918

Ion Ratio Lower Upper

75 100

77 32.0 25.8 38.8





#62

Bromoform

Concen: 2.015 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

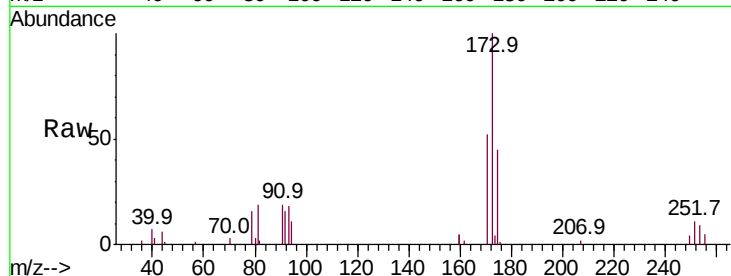
Tot Ion:173 Resp: 6850

Ion Ratio Lower Upper

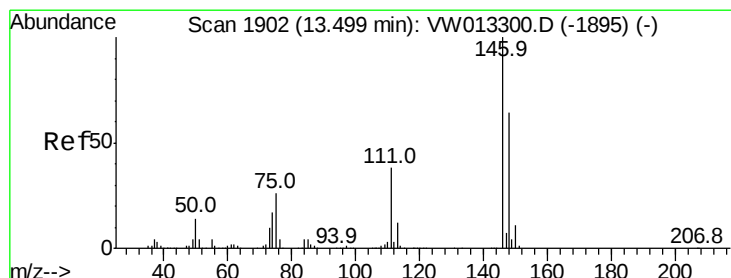
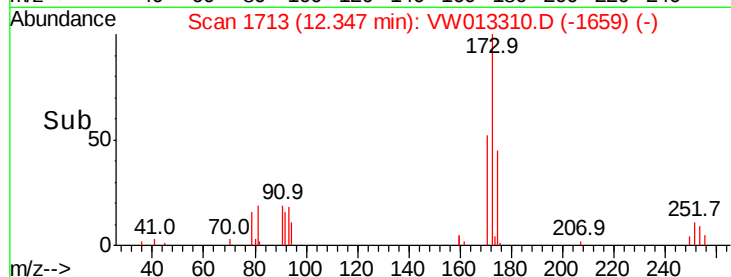
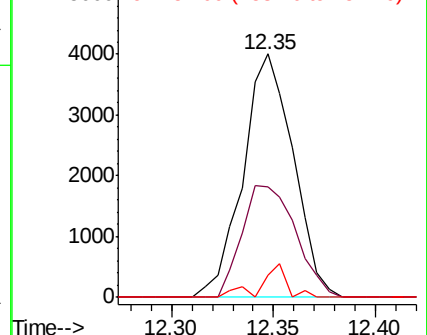
173 100

175 49.0 39.3 58.9

254 4.9 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: 2.131 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

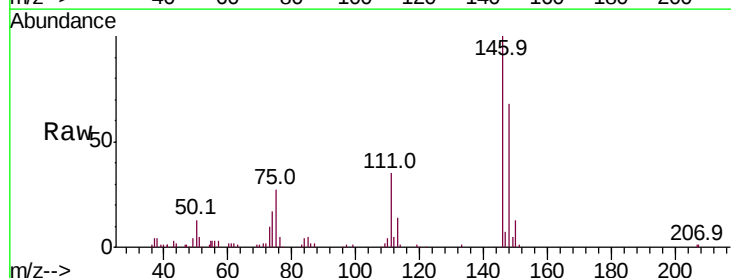
Tgt Ion:146 Resp: 28187

Ion Ratio Lower Upper

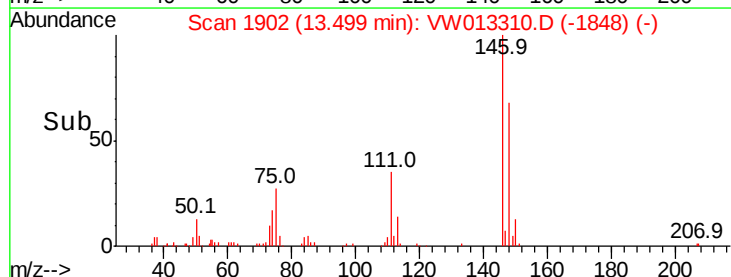
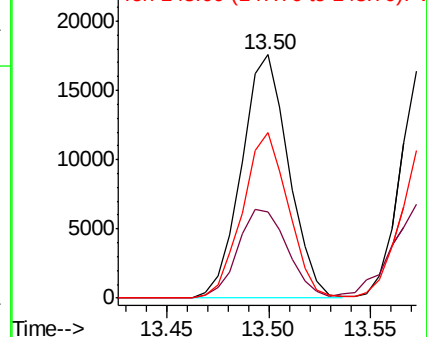
146 100

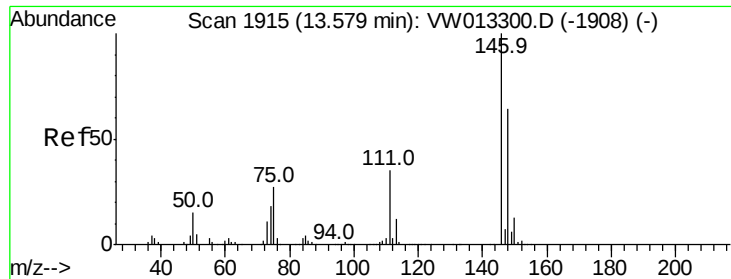
111 35.2 26.7 49.5

148 68.0 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: 2.306 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampleId :

MDL06

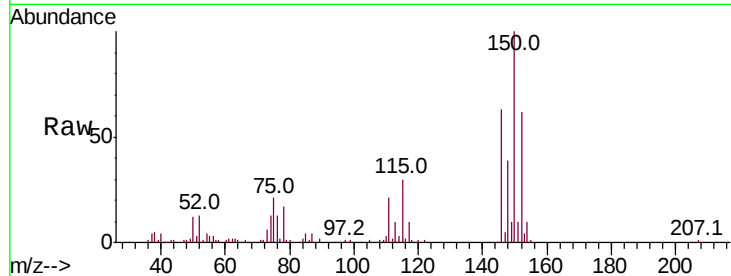
Tot Ion:146 Resp: 30813

Ion Ratio Lower Upper

146 100

111 32.7 24.2 45.0

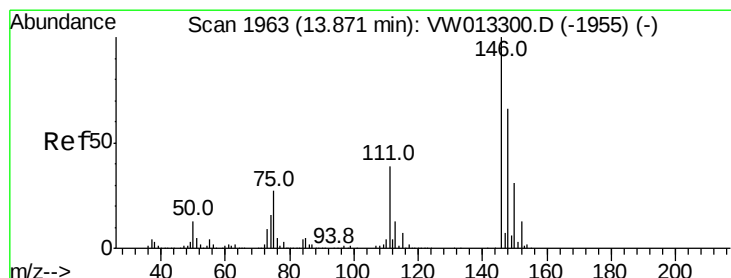
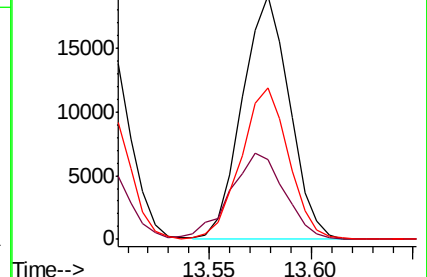
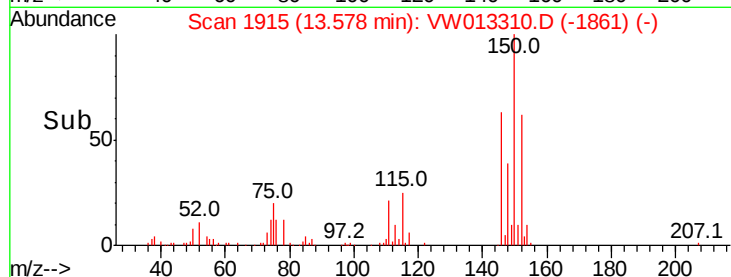
148 62.0 45.1 83.7



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: 2.235 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

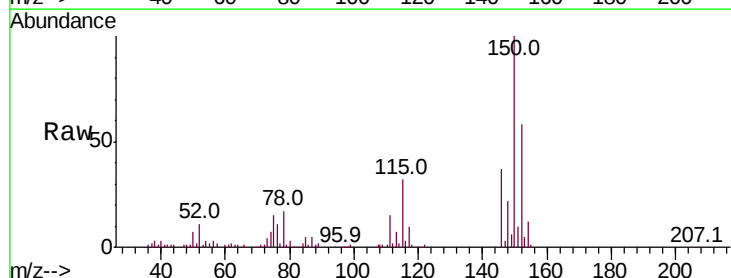
Tgt Ion:146 Resp: 26896

Ion Ratio Lower Upper

146 100

111 40.3 30.8 46.2

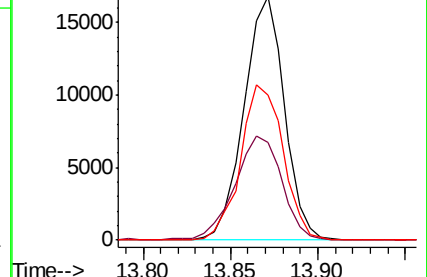
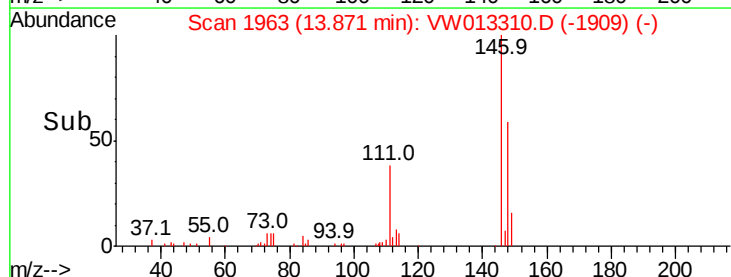
148 59.8 52.5 78.7

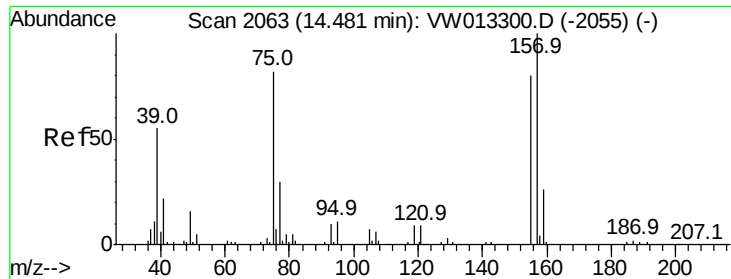


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

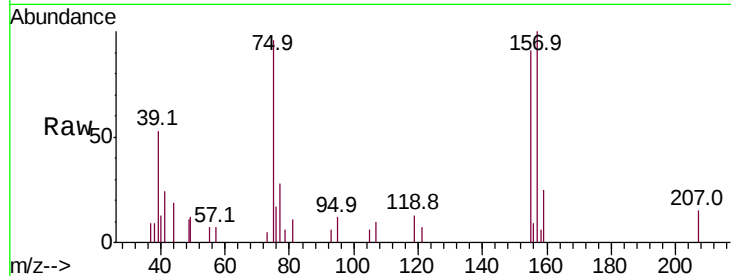




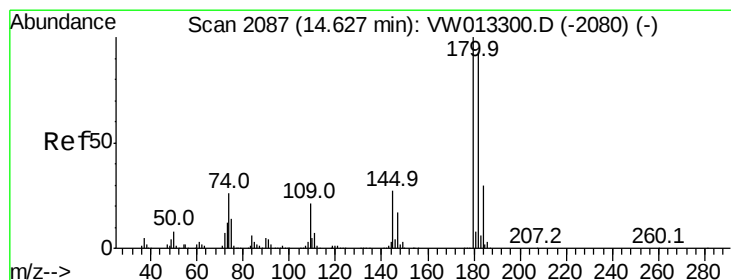
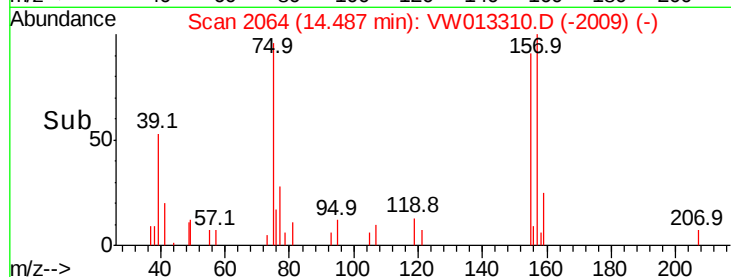
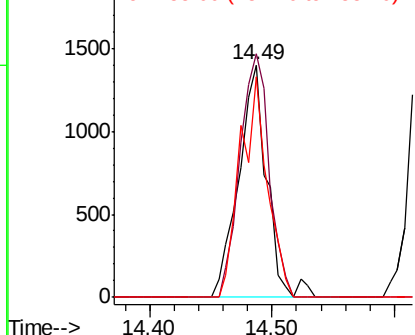
#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.361 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Tot Ion: 75 Resp: 2237
 Ion Ratio Lower Upper
 75 100
 157 104.7 97.8 146.8
 155 95.1 78.4 117.6

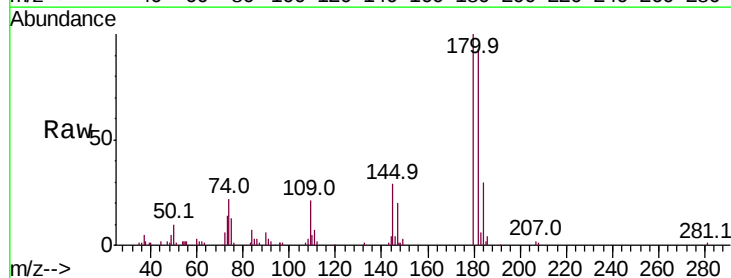


Abundance Ion 75.00 (74.70 to 75.70): VW
 Ion 157.00 (156.70 to 157.70): V
 Ion 155.00 (154.70 to 155.70): V

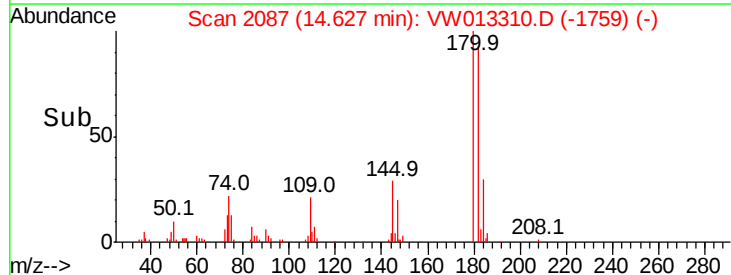
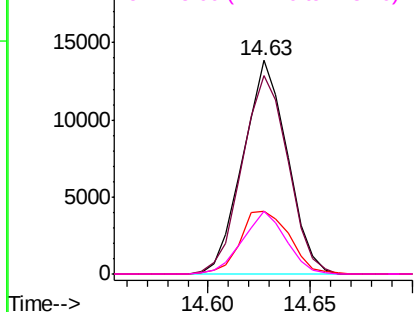


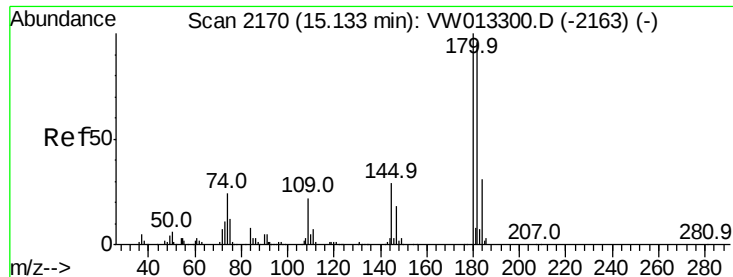
#67
 1,3,5-Trichlorobenzene
 Concen: 2.065 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Tgt Ion:180 Resp: 21023
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.4 114.6
 184 32.6 23.9 35.9
 145 28.5 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: 1.956 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

Instrument :

MSVOA_W

ClientSampled :

MDL06

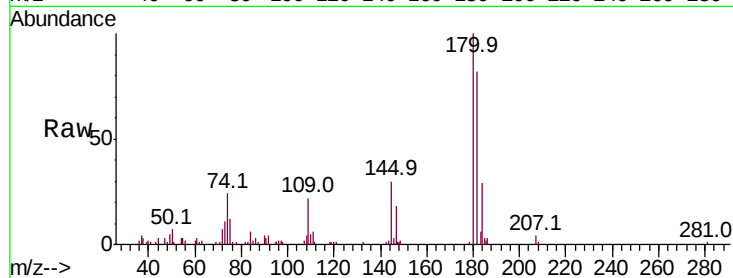
Tot Ion:180 Resp: 15896

Ion Ratio Lower Upper

180 100

182 94.7 75.9 113.9

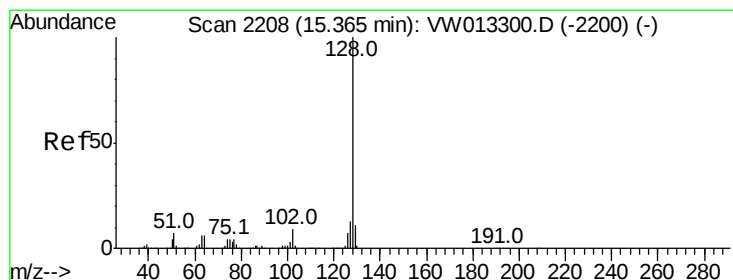
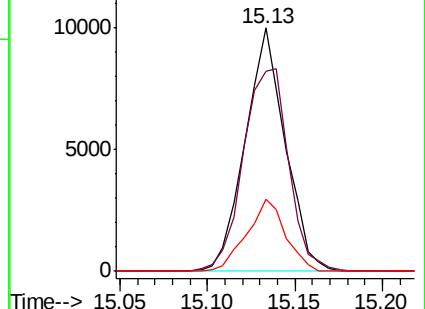
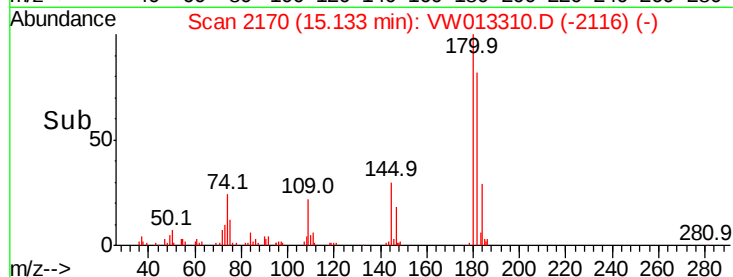
145 28.7 23.0 34.4



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: 1.750 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013310.D

Acq: 26 Sep 2019 17:52

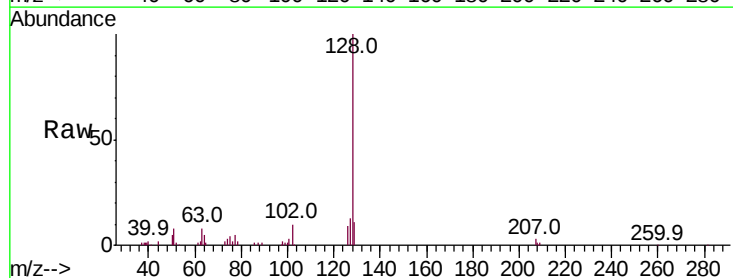
Tgt Ion:128 Resp: 27181

Ion Ratio Lower Upper

128 100

129 11.7 8.7 13.1

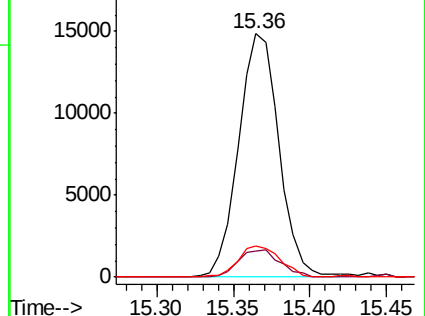
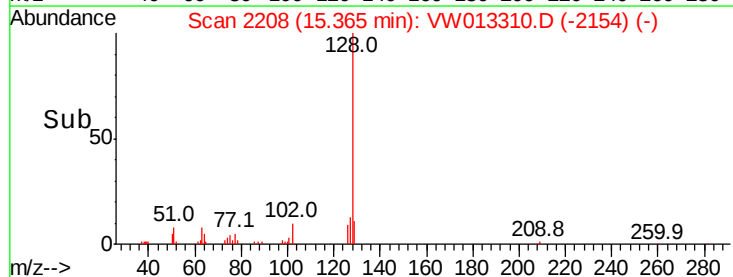
127 13.2 10.6 15.8

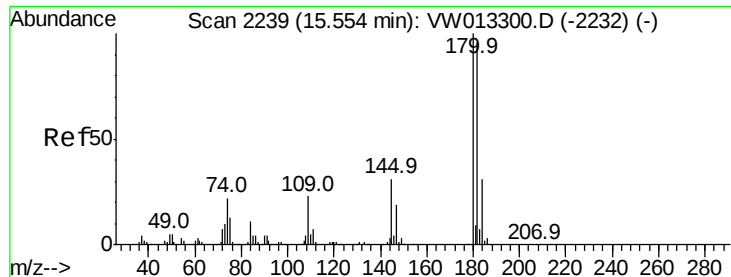


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

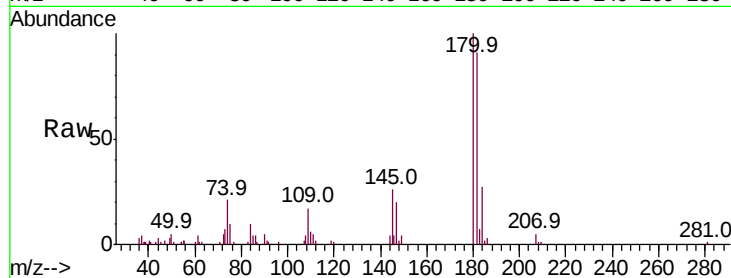




#70
 1,2,3-Trichlorobenzene
 Concen: 2.143 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW013310.D
 Acq: 26 Sep 2019 17:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL06

Tot Ion:180 Resp: 15844
 Ion Ratio Lower Upper
 180 100
 182 87.5 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

