

Data File : VW013319.D
Acq On : 27 Sep 2019 12:48
Operator : SY/VA
Sample : MDL04
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
MDL04

Quant Time: Sep 28 03:41:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092619S.M
Quant Title : VOC Analysis
QLast Update : Sat Sep 28 03:37:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	460046	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	408697	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	201106	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	141060	25.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.88%
7) Chloroethane-d5	2.89	69	111206	25.26	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.04%
10) 1,1-Dichloroethene-d2	4.01	63	213831	19.80	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.20%
20) 2-Butanone-d5	7.07	46	97584	51.47	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.94%
24) Chloroform-d	7.65	84	258139	24.89	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.56%
26) 1,2-Dichloroethane-d4	8.30	65	145196	25.91	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.64%
29) Benzene-d6	8.27	84	566459	25.53	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.12%
33) 1,2-Dichloropropane-d6	9.27	67	169349	25.61	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.44%
37) Toluene-d8	10.32	98	536130	25.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.64%
38) trans-1,3-Dichloropropene-	10.58	79	72615	24.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.76%
39) 2-Hexanone-d5	10.93	63	74495	51.49	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.98%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	144199	25.68	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.72%
61) 1,2-Dichlorobenzene-d4	13.85	152	187037	26.04	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	104.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	3747	1.301 ug/L	90
3) Chloromethane	2.20	50	7176	1.860 ug/L	88
5) Vinyl chloride	2.35	62	10224	1.916 ug/L #	55
6) Bromomethane	2.77	94	5803	1.711 ug/L	95
8) Chloroethane	2.92	64	6254	1.932 ug/L	92
9) Trichlorofluoromethane	3.26	101	5331	1.612 ug/L #	60
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	9293	1.778 ug/L #	29
12) 1,1-Dichloroethene	4.03	96	11731	2.212 ug/L #	1
13) Acetone	4.14	43	7737	4.903 ug/L	89
14) Carbon disulfide	4.38	76	26668	1.771 ug/L	97
16) Methylene chloride	4.91	84	25732	3.744 ug/L	93
17) Methyl tert-butyl Ether	5.42	73	17408	1.898 ug/L #	78
18) trans-1,2-Dichloroethene	5.42	96	11078	1.954 ug/L	88
19) 1,1-Dichloroethane	6.21	63	18889	1.899 ug/L	92
21) 2-Butanone	7.14	43	2772	1.220 ug/L	89
22) cis-1,2-Dichloroethene	7.17	96	11781	1.907 ug/L	92
23) Bromochloromethane	7.51	128	5209	1.873 ug/L	93

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Quant Title : VOC Analysis
QLast Update : Sat Sep 28 03:37:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	20768	2.125	ug/L	95
27) 1,2-Dichloroethane	8.40	62	12826	2.004	ug/L #	93
30) Cyclohexane	7.96	56	17841	1.818	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	15570	1.985	ug/L	99
32) Carbon tetrachloride	8.07	117	14326	1.915	ug/L	98
34) Benzene	8.32	78	45256	1.975	ug/L	100
35) Trichloroethene	9.09	95	11351	1.886	ug/L	93
36) Methylcyclohexane	9.34	83	20881	1.947	ug/L	99
40) 1,2-Dichloropropane	9.37	63	10820	1.919	ug/L	100
41) Bromodichloromethane	9.64	83	13492	1.951	ug/L	91
42) cis-1,3-Dichloropropene	10.07	75	17388	1.931	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	18162	4.209	ug/L	92
44) Toluene	10.38	91	49888	2.000	ug/L	96
45) trans-1,3-Dichloropropene	10.60	75	16413	2.268	ug/L	96
46) 1,1,2-Trichloroethane	10.79	97	7710	1.746	ug/L	83
47) Tetrachloroethene	10.86	164	10441	1.928	ug/L	95
49) 2-Hexanone	10.97	43	11698	3.771	ug/L	97
50) Dibromochloromethane	11.13	129	9600	1.895	ug/L	75
51) 1,2-Dibromoethane	11.23	107	8500	1.959	ug/L	99
52) Chlorobenzene	11.66	112	30805	1.960	ug/L	95
53) Ethylbenzene	11.73	91	52441	1.896	ug/L	98
54) m,p-Xylene	11.84	106	20615	1.942	ug/L	90
55) o-xylene	12.16	106	18896	1.886	ug/L	95
56) Styrene	12.18	104	31447	1.831	ug/L	97
57) Isopropylbenzene	12.46	105	49581	1.830	ug/L #	96
58) 1,1,2,2-Tetrachloroethane	12.71	83	11061	2.033	ug/L	100
59) 1,2,3-Trichloropropane	12.77	75	8419	2.073	ug/L	96
62) Bromoform	12.35	173	5976	1.878	ug/L #	97
63) 1,3-Dichlorobenzene	13.50	146	24201	1.956	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	24904	1.992	ug/L	93
65) 1,2-Dichlorobenzene	13.87	146	23113	2.053	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.48	75	1812	2.043	ug/L	86
67) 1,3,5-Trichlorobenzene	14.63	180	17184	1.804	ug/L	95
68) 1,2,4-trichlorobenzene	15.13	180	12357	1.625	ug/L	99
69) Naphthalene	15.37	128	21418	1.474	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	11874	1.717	ug/L	96

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

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Instrument :
MSVOA_W
ClientSampleId :
MDL04

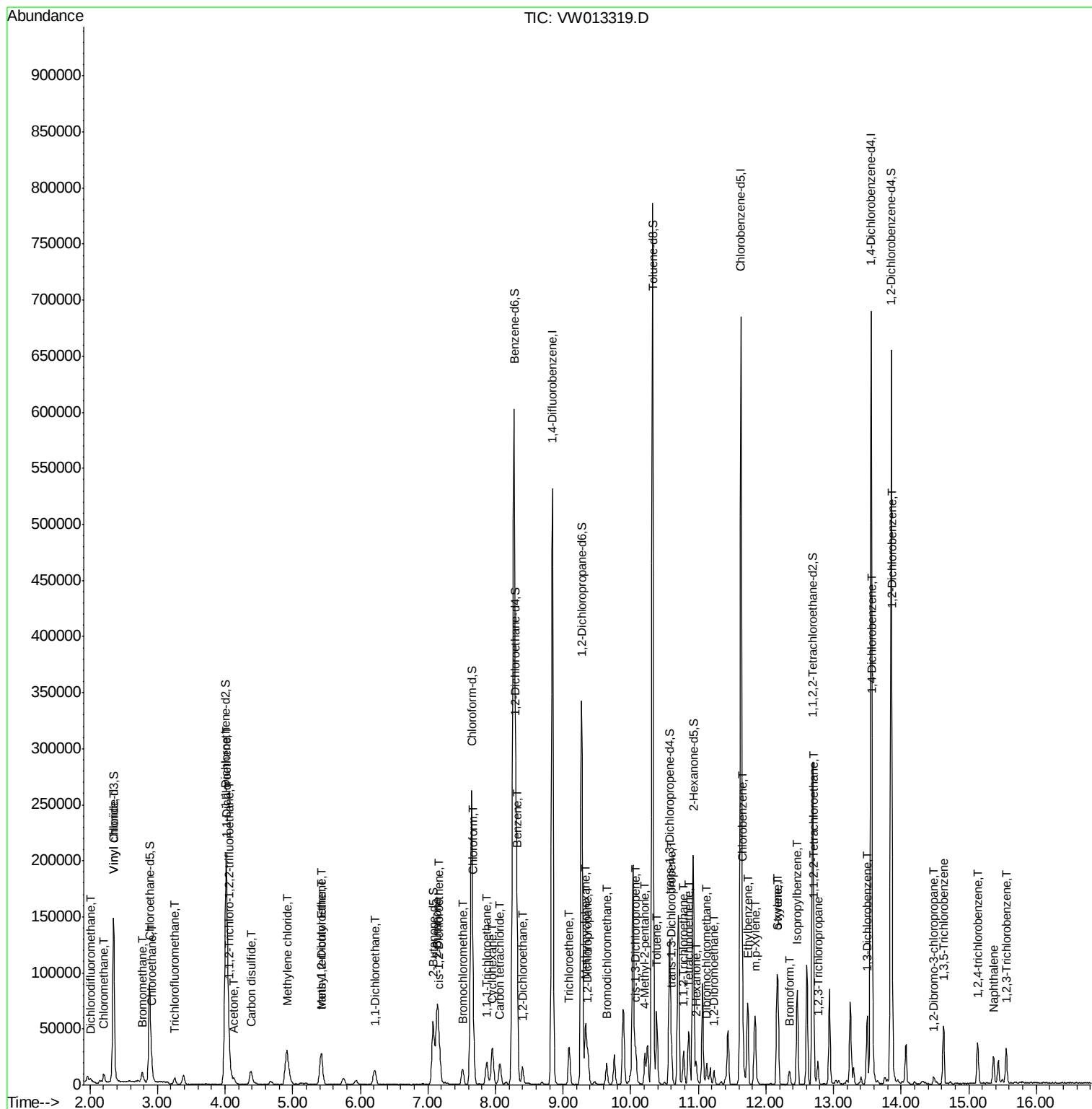
Quant Time: Sep 28 03:41:47 2019

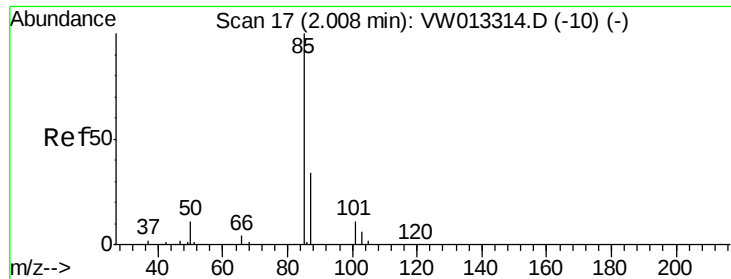
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Quant Title : VOC Analysis

QLast Update : Sat Sep 28 03:37:10 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.301 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

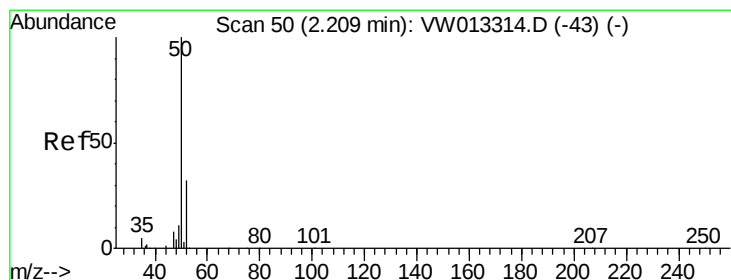
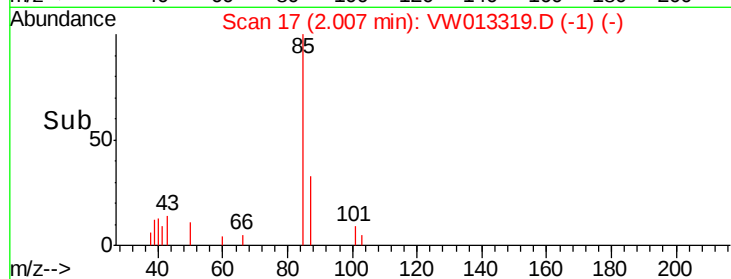
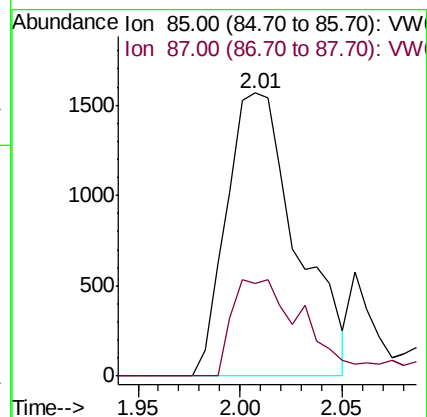
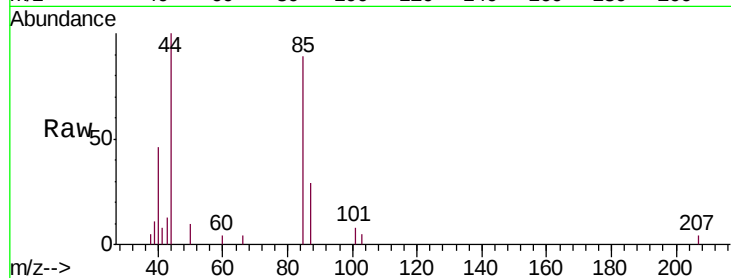
MDL04

Tgt Ion: 85 Resp: 3747

Ion Ratio Lower Upper

85 100

87 25.2 21.3 39.6



#3

Chloromethane

Concen: 1.860 ug/L

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013319.D

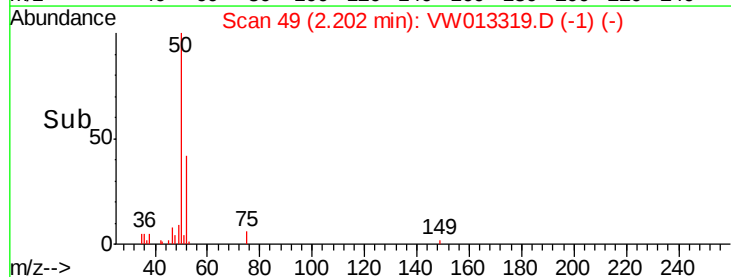
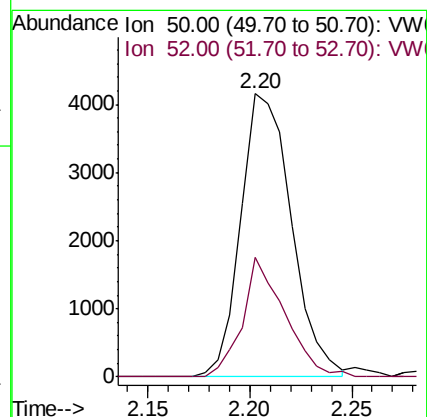
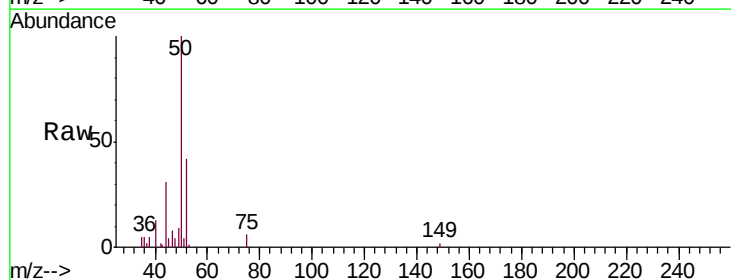
Acq: 27 Sep 2019 12:48

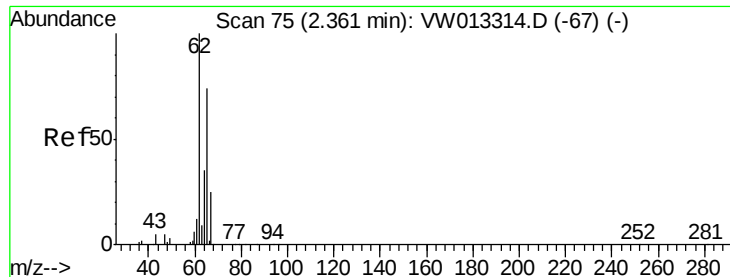
Tgt Ion: 50 Resp: 7176

Ion Ratio Lower Upper

50 100

52 42.0 24.4 45.4





#5

Vinyl chloride

Concen: 1.916 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampled :

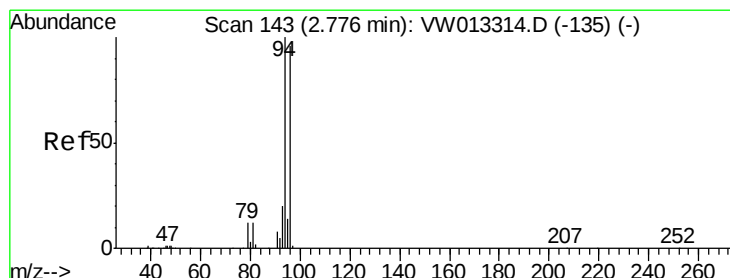
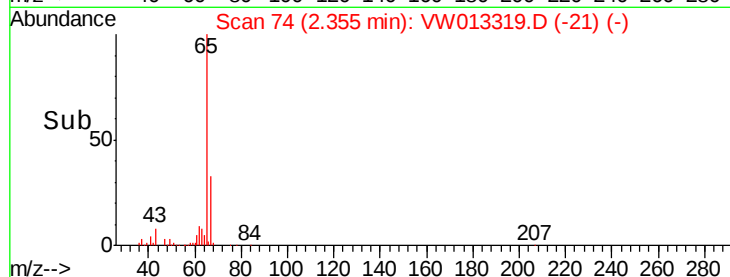
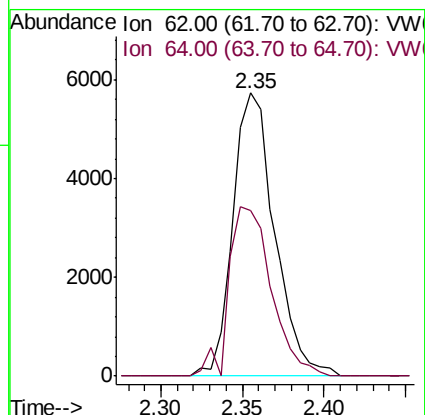
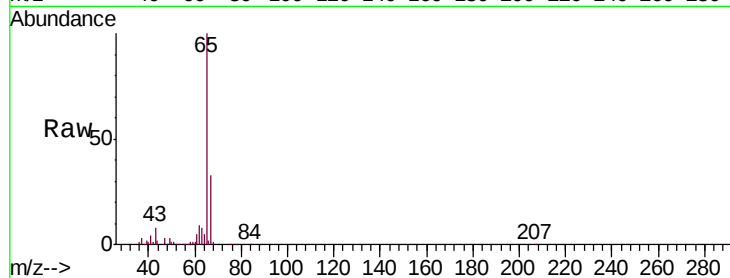
MDL04

Tgt Ion: 62 Resp: 10224

Ion Ratio Lower Upper

62 100

64 58.4 23.2 43.0#



#6

Bromomethane

Concen: 1.711 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW013319.D

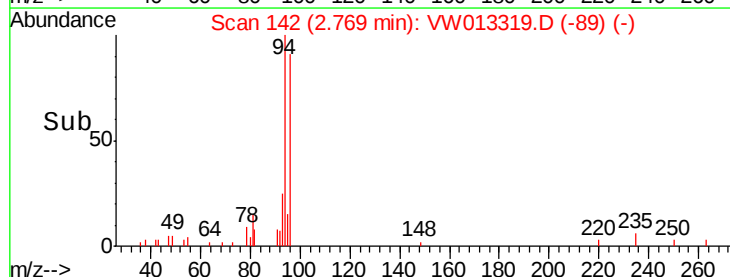
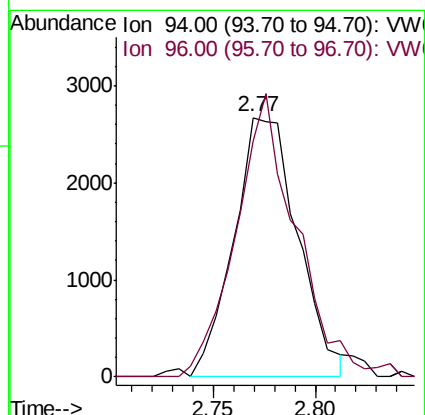
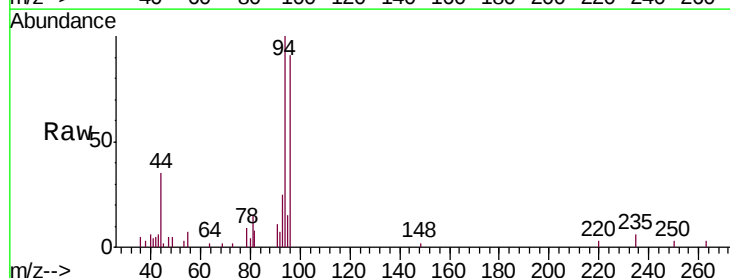
Acq: 27 Sep 2019 12:48

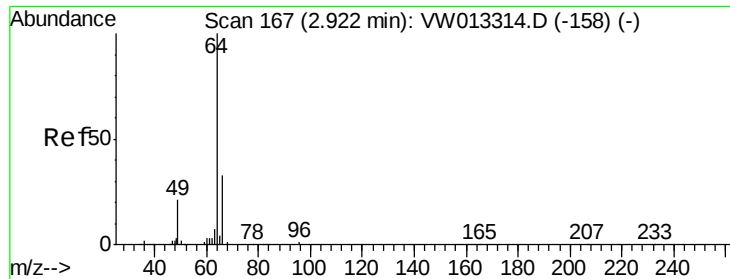
Tgt Ion: 94 Resp: 5803

Ion Ratio Lower Upper

94 100

96 102.3 9.7 184.3





#8

Chloroethane

Concen: 1.932 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampled :

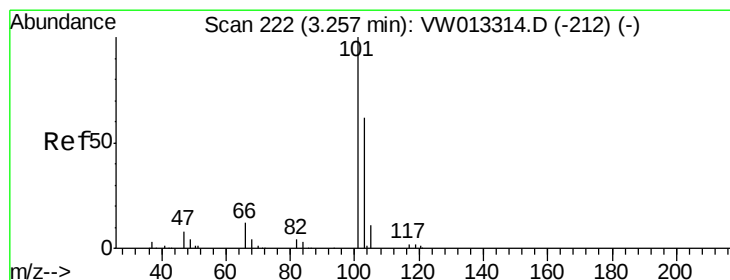
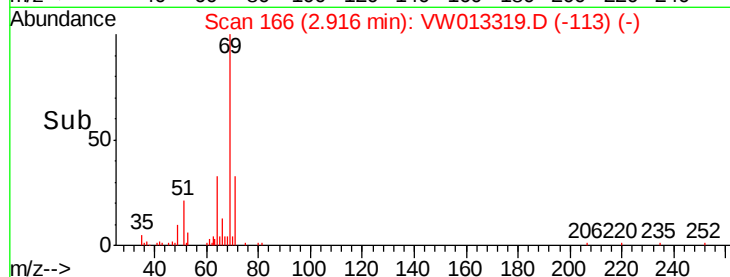
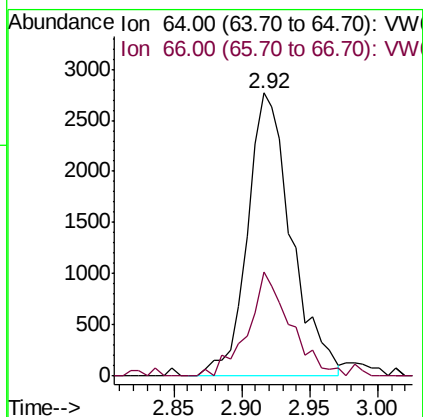
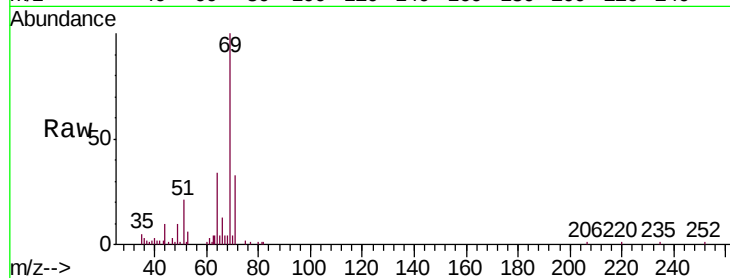
MDL04

Tgt Ion: 64 Resp: 6254

Ion Ratio Lower Upper

64 100

66 36.8 22.7 42.1



#9

Trichlorofluoromethane

Concen: 1.612 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW013319.D

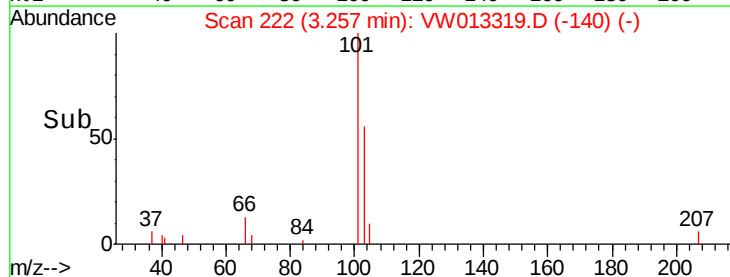
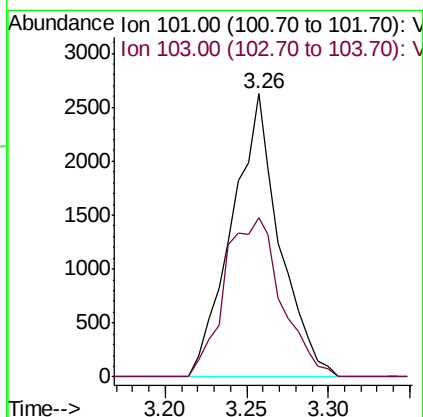
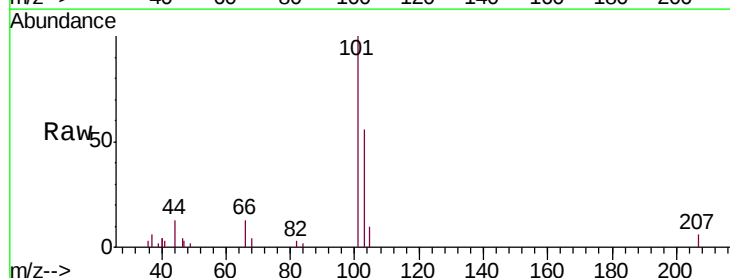
Acq: 27 Sep 2019 12:48

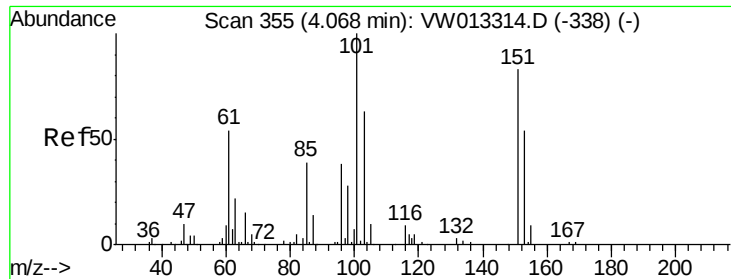
Tgt Ion: 101 Resp: 5331

Ion Ratio Lower Upper

101 100

103 33.4 45.2 84.0#





#11

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

Concen: 1.778 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

MDL04

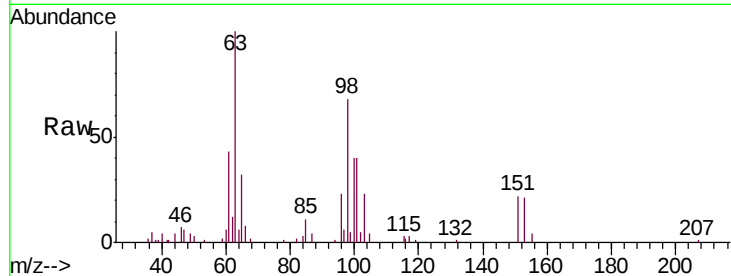
Tgt Ion:101 Resp: 9293

Ion Ratio Lower Upper

101 100

85 21.3 31.8 47.8#

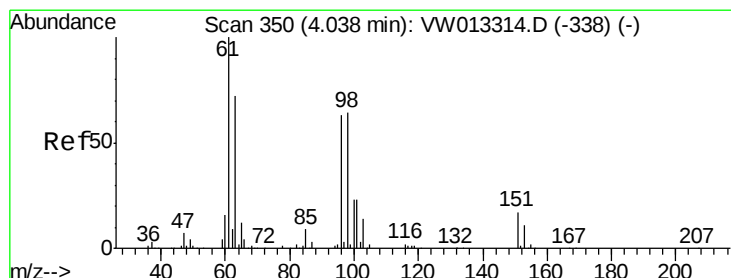
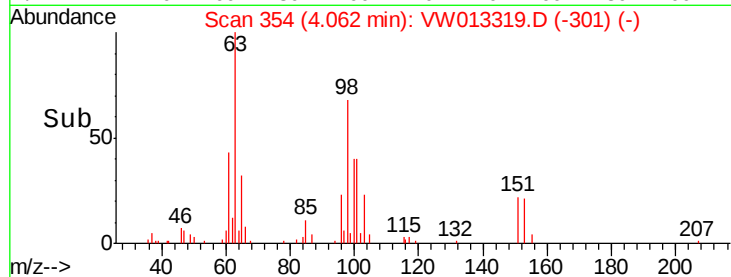
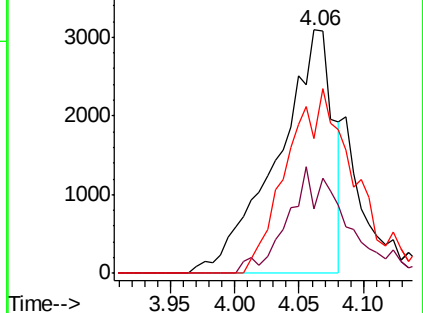
151 0.0 65.4 98.0#



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: 2.212 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

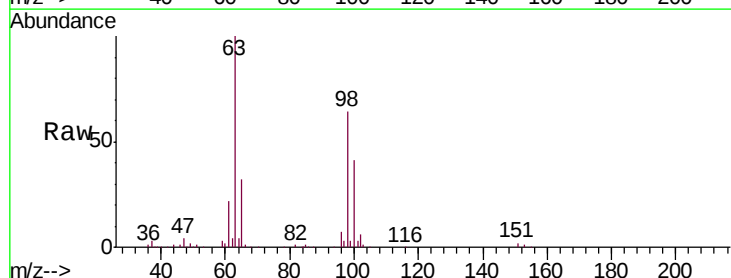
Tgt Ion: 96 Resp: 11731

Ion Ratio Lower Upper

96 100

61 304.1 115.9 215.3#

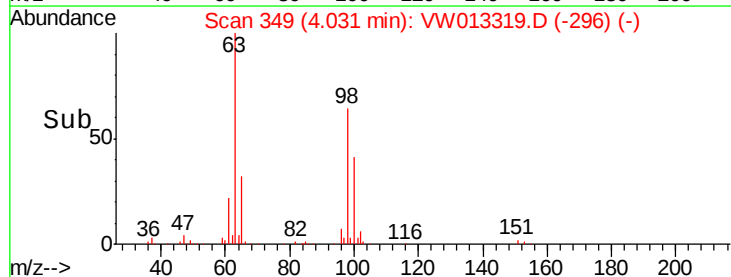
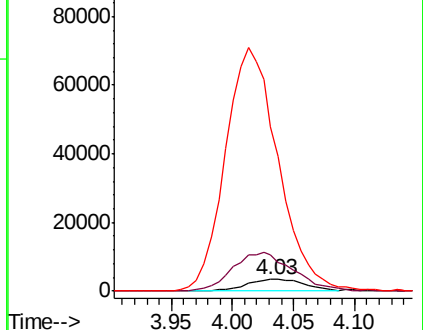
63 1390.7 88.9 165.1#

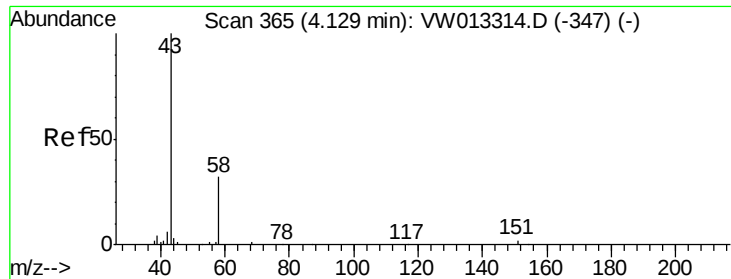


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 4.903 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

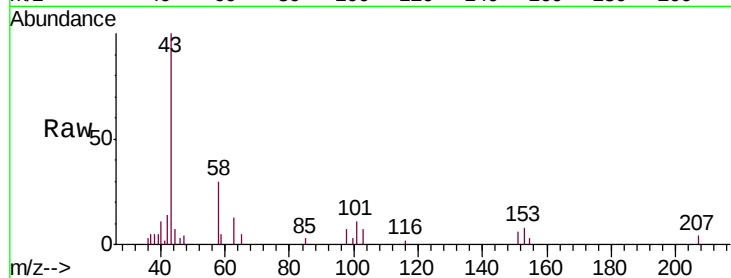
MDL04

Tgt Ion: 43 Resp: 7737

Ion Ratio Lower Upper

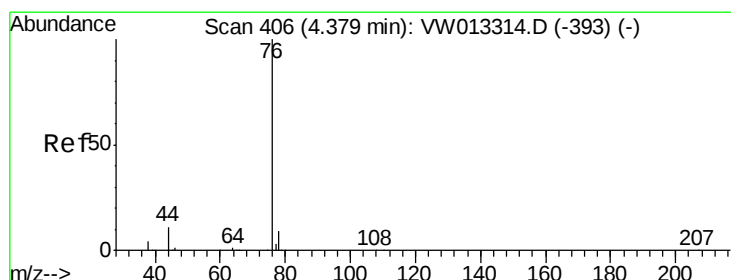
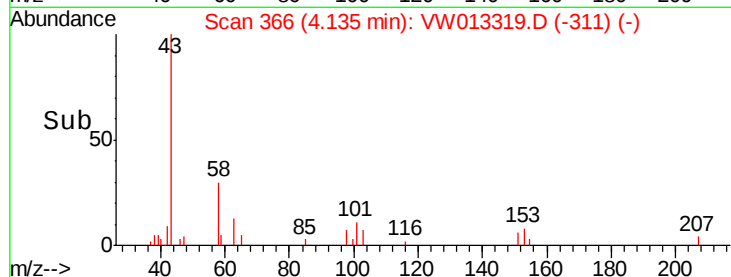
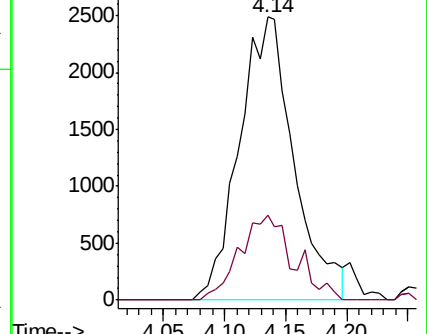
43 100

58 25.3 0.0 63.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 1.771 ug/L

RT: 4.38 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW013319.D

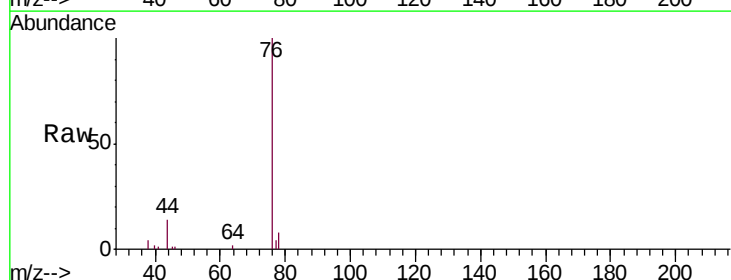
Acq: 27 Sep 2019 12:48

Tgt Ion: 76 Resp: 26668

Ion Ratio Lower Upper

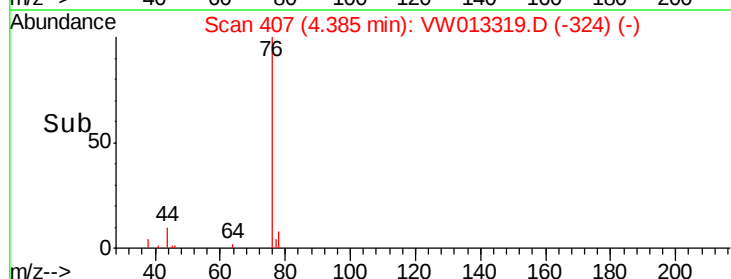
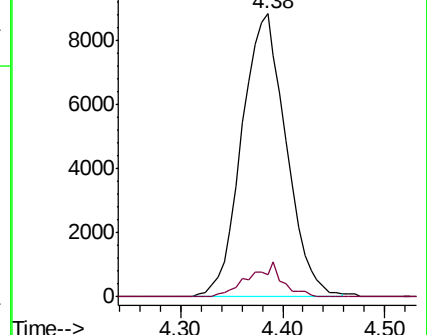
76 100

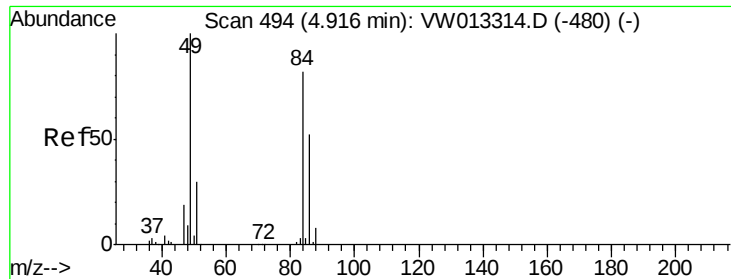
78 7.9 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

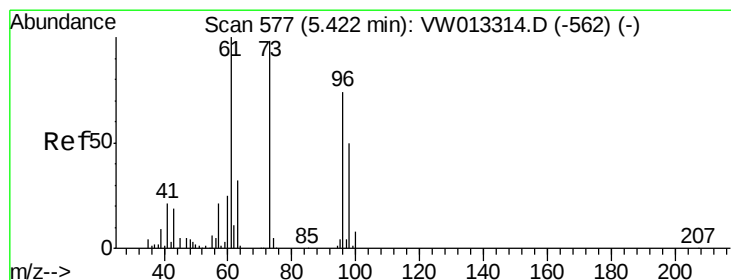
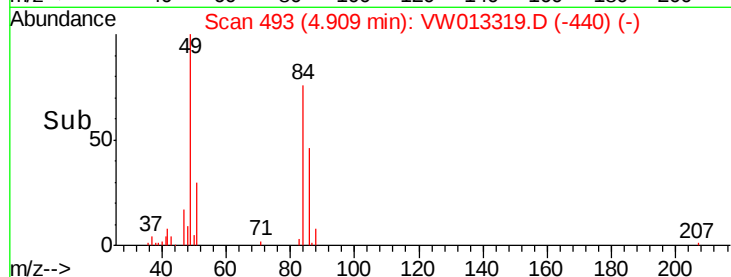
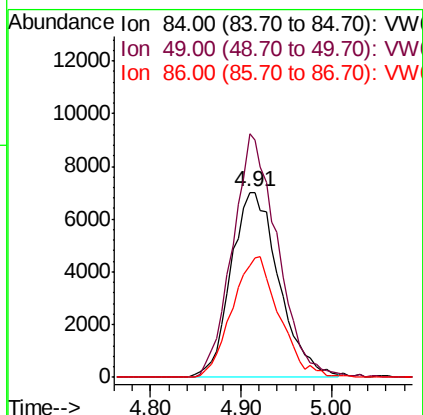
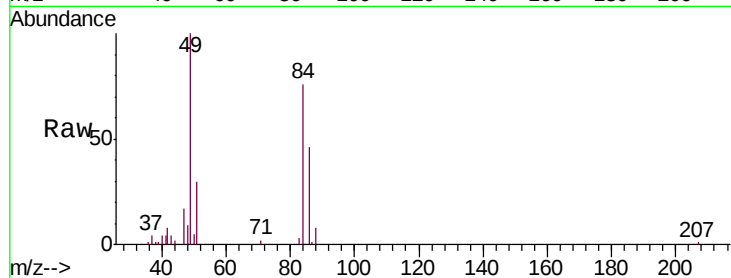




#16
Methylene chloride
Concen: 3.744 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

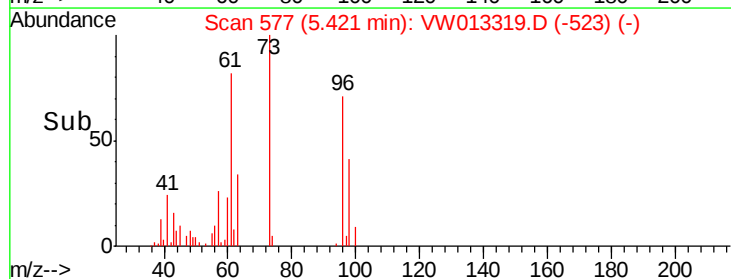
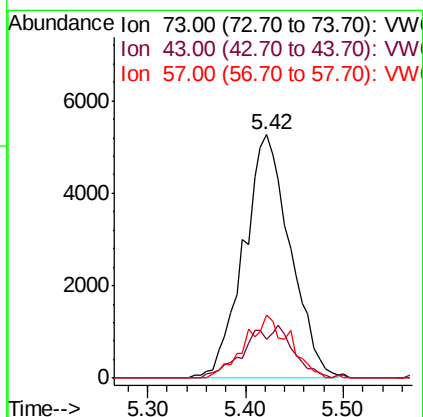
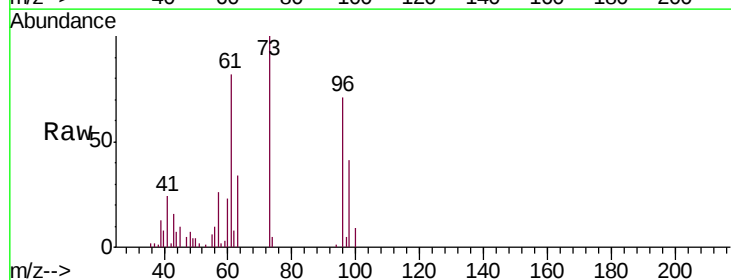
Instrument :
MSVOA_W
ClientSampled :
MDL04

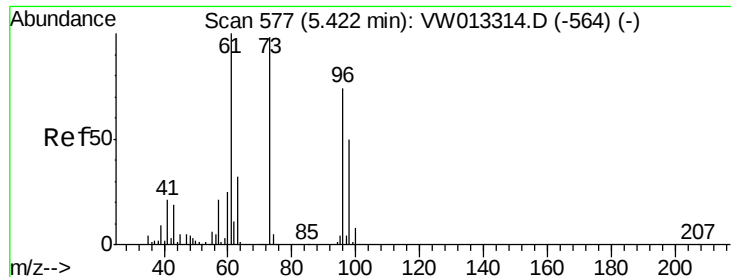
Tgt Ion: 84 Resp: 25732
Ion Ratio Lower Upper
84 100
49 131.6 84.8 157.4
86 60.2 44.0 81.6



#17
Methyl tert-butyl Ether
Concen: 1.898 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

Tgt Ion: 73 Resp: 17408
Ion Ratio Lower Upper
73 100
43 10.7 15.3 22.9#
57 11.2 18.2 27.4#





#18

trans-1,2-Dichloroethene

Concen: 1.954 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

MDL04

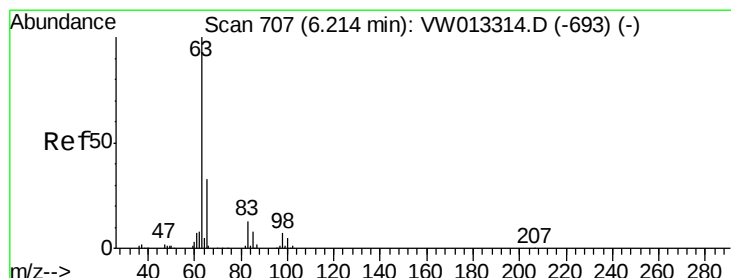
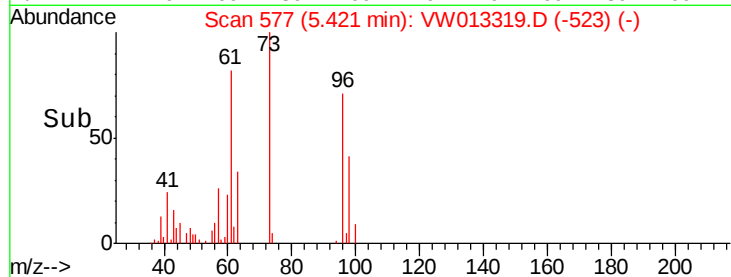
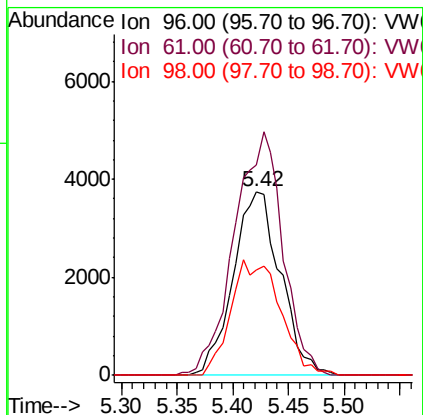
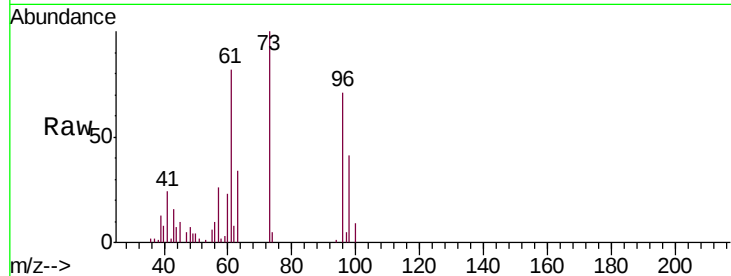
Tgt Ion: 96 Resp: 11078

Ion Ratio Lower Upper

96 100

61 114.8 91.2 169.4

98 57.0 44.7 82.9



#19

1,1-Dichloroethane

Concen: 1.899 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

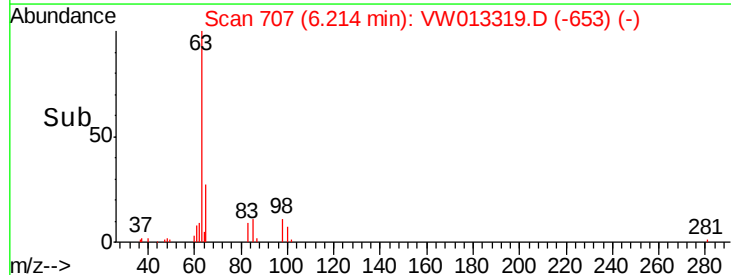
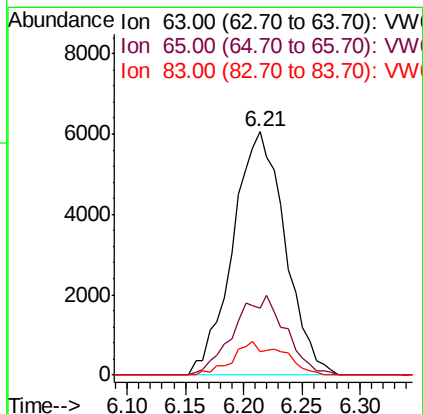
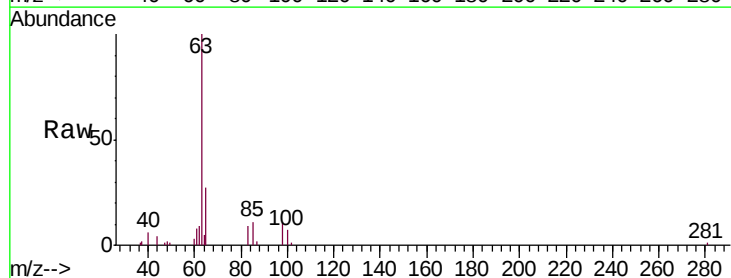
Tgt Ion: 63 Resp: 18889

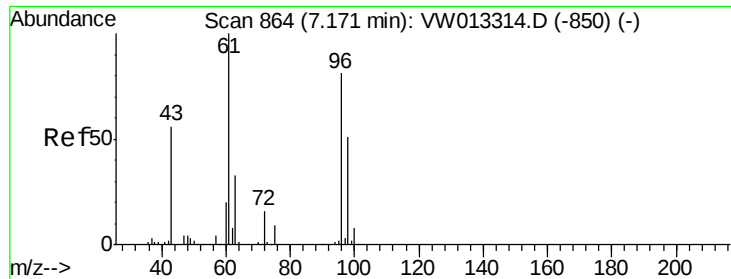
Ion Ratio Lower Upper

63 100

65 27.3 21.8 40.4

83 9.4 9.3 17.3

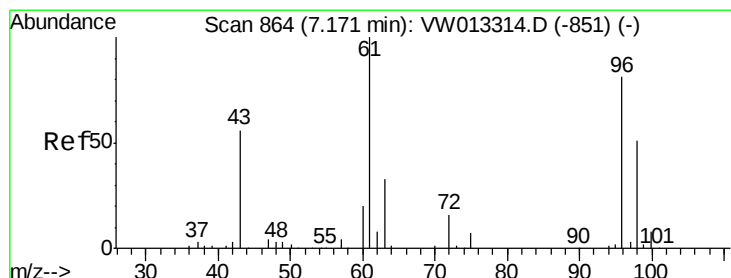
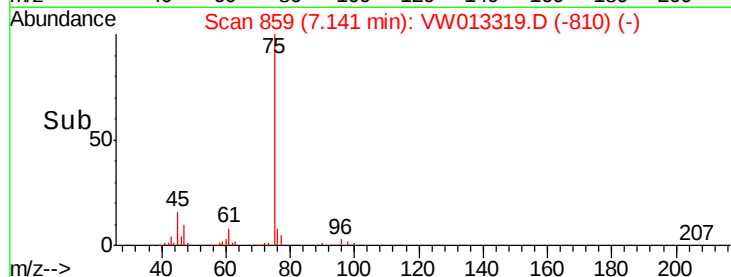
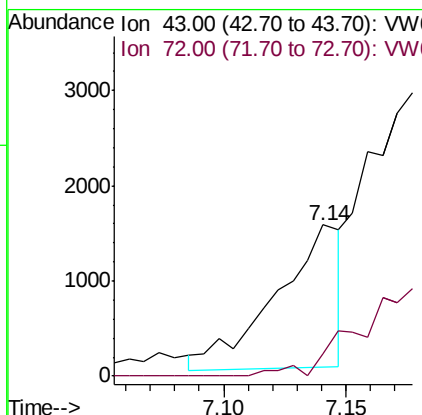
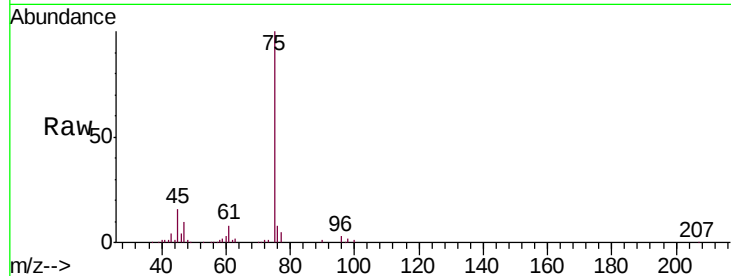




#21
2-Butanone
Concen: 1.220 ug/L
RT: 7.14 min Scan# 859
Delta R.T. -0.03 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

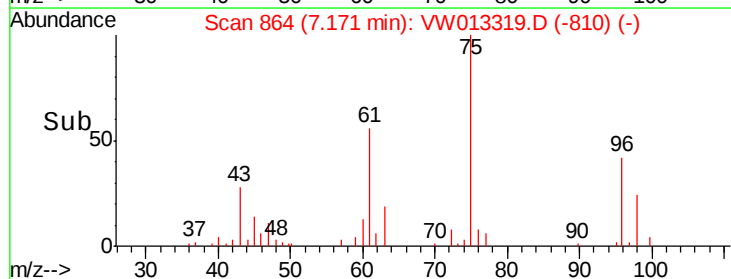
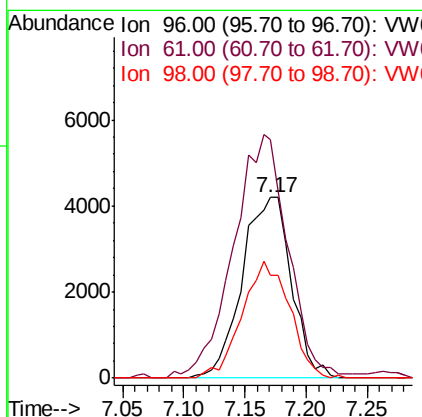
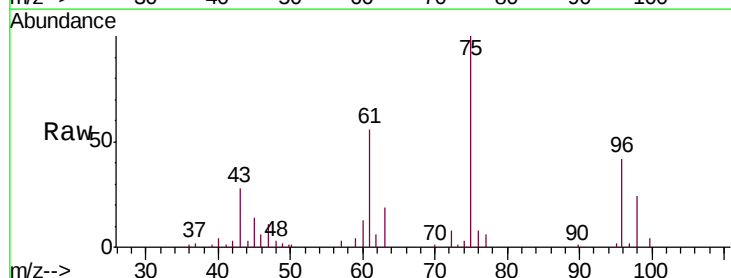
Instrument :
MSVOA_W
ClientSampled :
MDL04

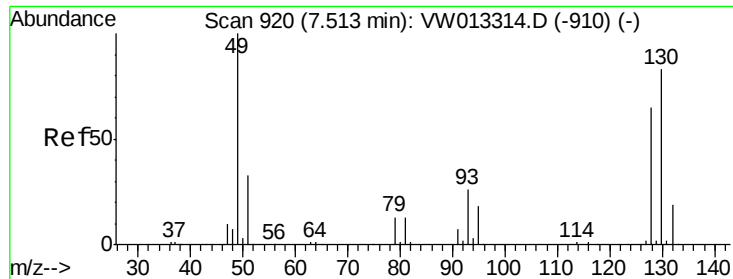
Tgt Ion: 43 Resp: 2772
Ion Ratio Lower Upper
43 100
72 20.9 13.2 39.6



#22
cis-1,2-Dichloroethene
Concen: 1.907 ug/L
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

Tgt Ion: 96 Resp: 11781
Ion Ratio Lower Upper
96 100
61 131.6 86.0 159.6
98 56.6 43.5 80.9





#23

Bromochloromethane

Concen: 1.873 ug/L

RT: 7.51 min Scan# 919

Delta R.T. -0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

MDL04

Tgt Ion:128 Resp: 5209

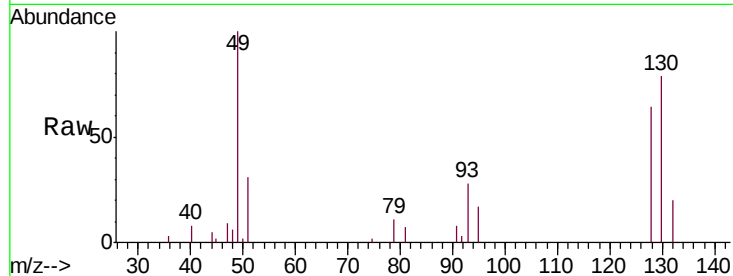
Ion Ratio Lower Upper

128 100

49 155.5 114.6 212.8

130 123.2 92.6 172.0

51 47.8 42.7 64.1

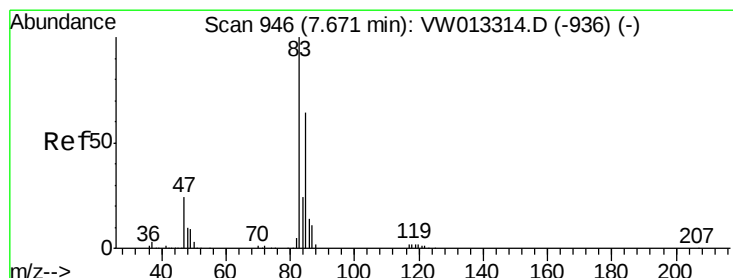
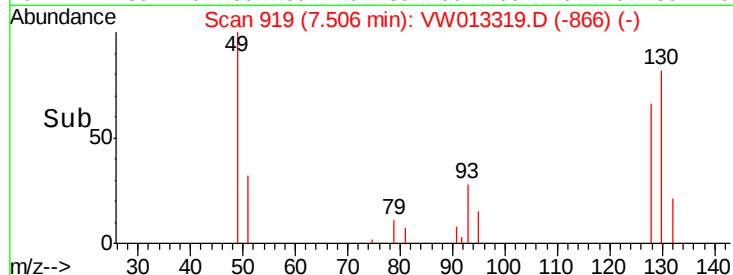
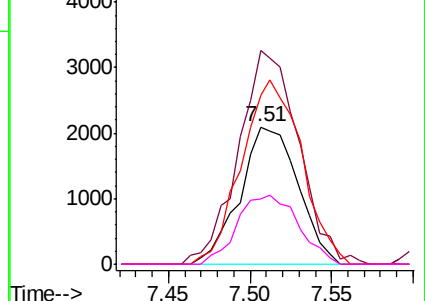


Abundance Ion 128.00 (127.70 to 128.70): V

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: 2.125 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW013319.D

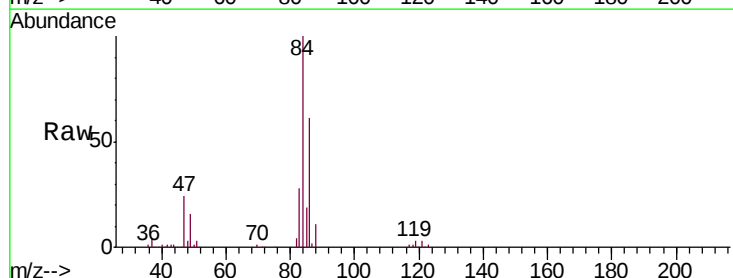
Acq: 27 Sep 2019 12:48

Tgt Ion: 83 Resp: 20768

Ion Ratio Lower Upper

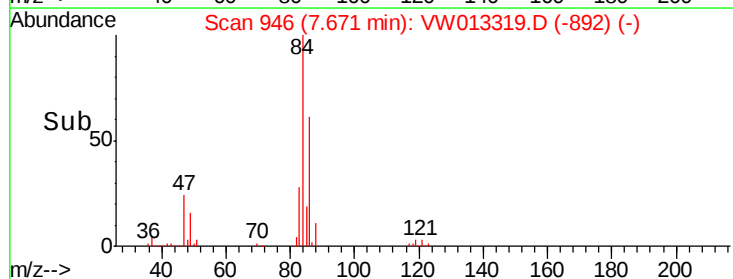
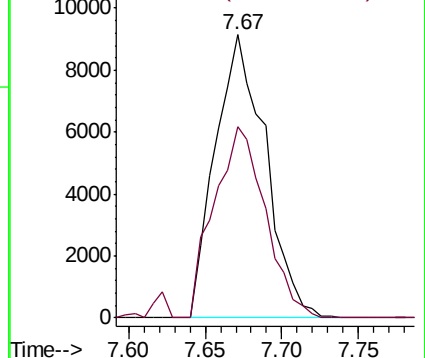
83 100

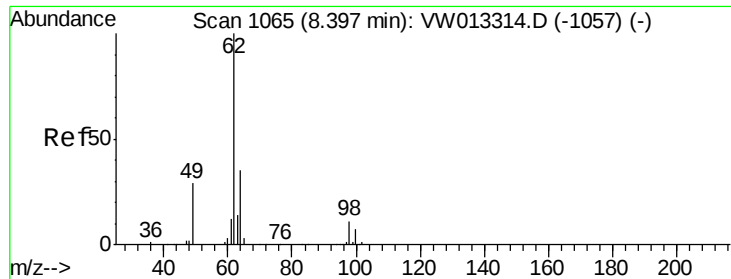
85 69.2 45.9 85.3



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 2.004 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

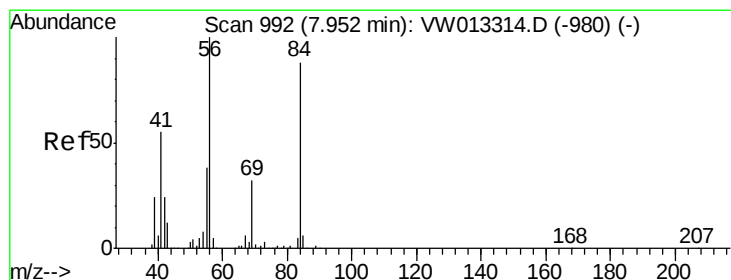
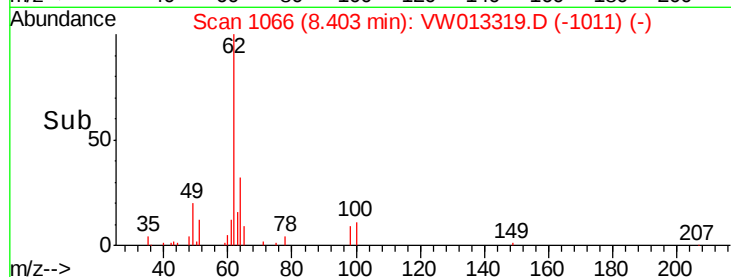
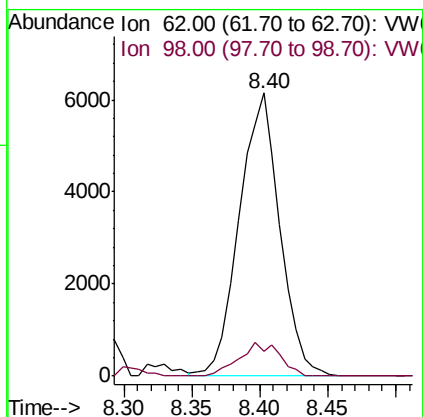
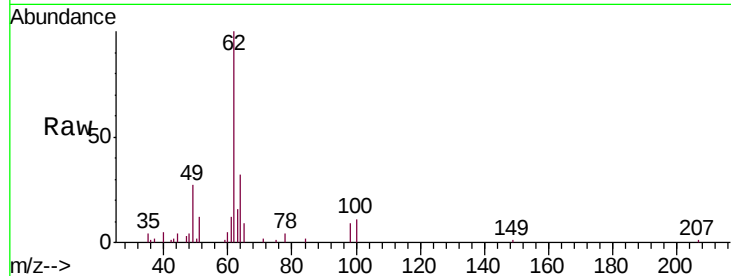
MDL04

Tgt Ion: 62 Resp: 12826

Ion Ratio Lower Upper

62 100

98 8.7 9.0 13.6#



#30

Cyclohexane

Concen: 1.818 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

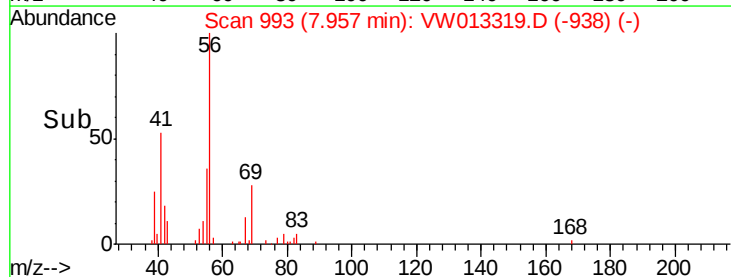
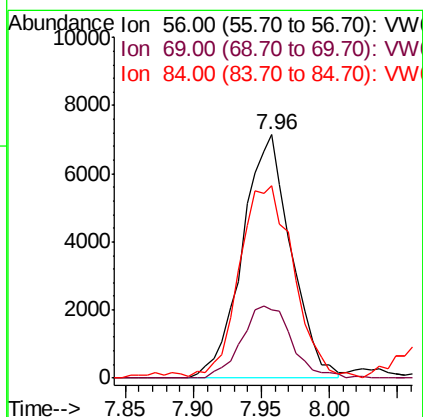
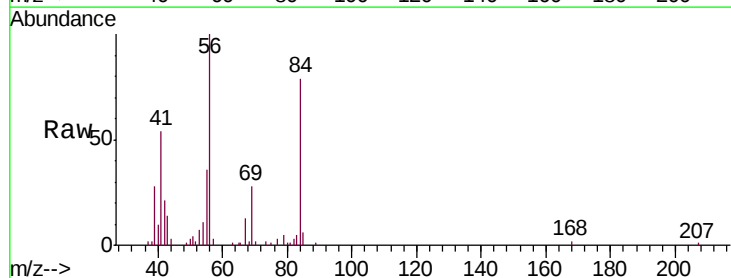
Tgt Ion: 56 Resp: 17841

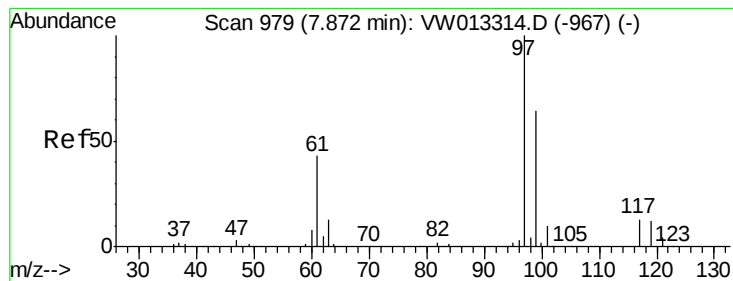
Ion Ratio Lower Upper

56 100

69 29.7 24.6 37.0

84 88.3 69.5 104.3





#31

1,1,1-Trichloroethane

Concen: 1.985 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampled :

MDL04

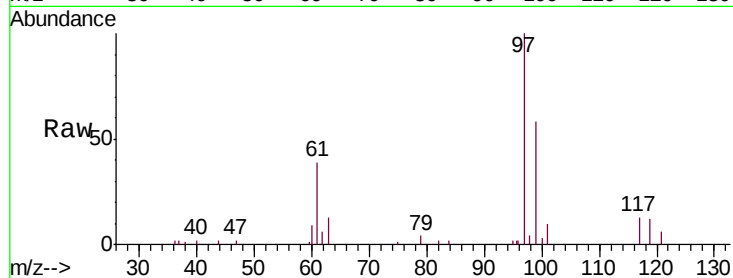
Tgt Ion: 97 Resp: 15570

Ion Ratio Lower Upper

97 100

99 63.8 50.6 75.8

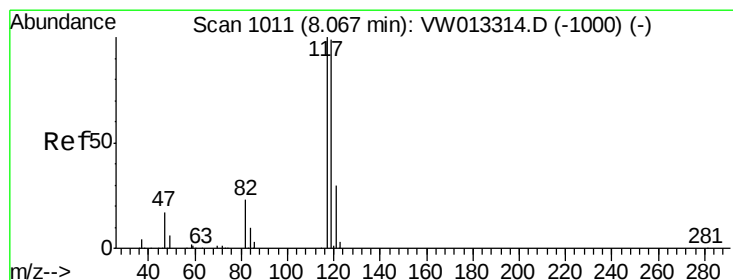
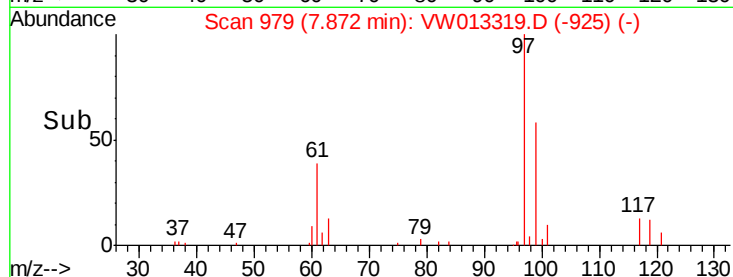
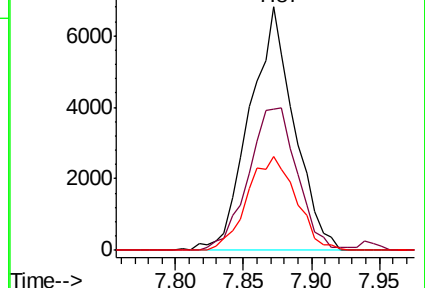
61 42.1 34.2 51.2



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: 1.915 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013319.D

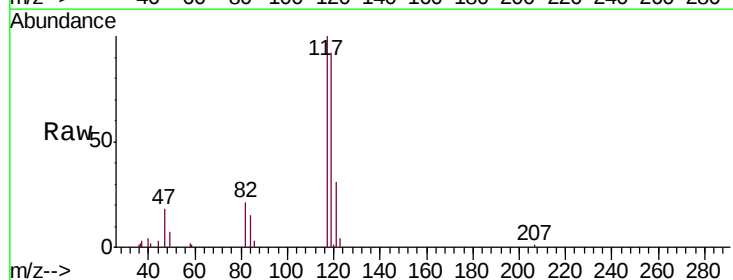
Acq: 27 Sep 2019 12:48

Tgt Ion: 117 Resp: 14326

Ion Ratio Lower Upper

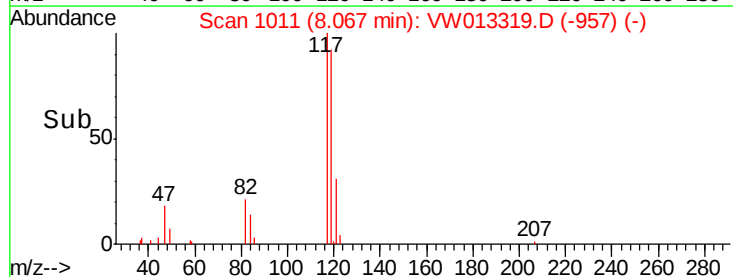
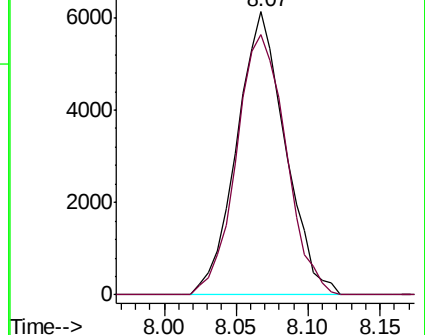
117 100

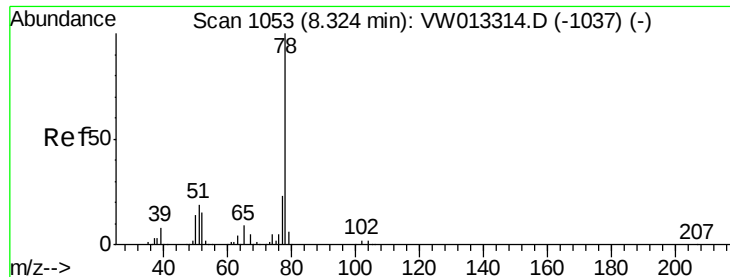
119 93.8 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 1.975 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

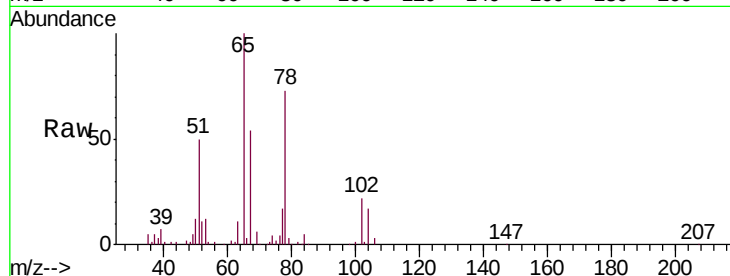
Instrument :

MSVOA_W

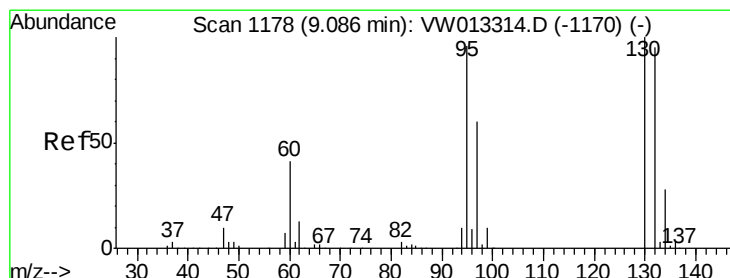
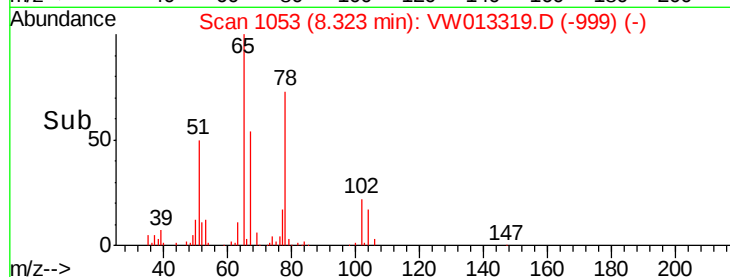
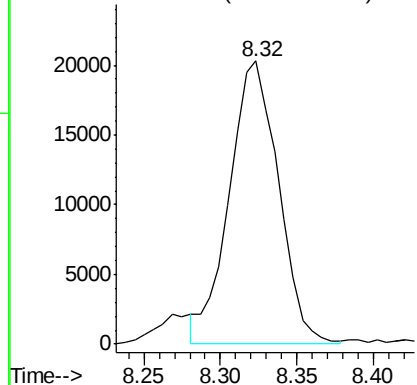
ClientSampleId :

MDL04

Tgt Ion: 78 Resp: 45256



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 1.886 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Tgt Ion: 95 Resp: 11351

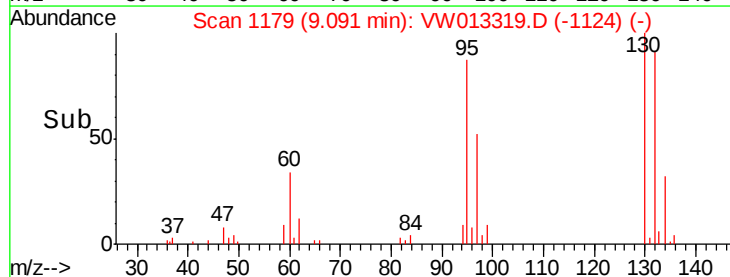
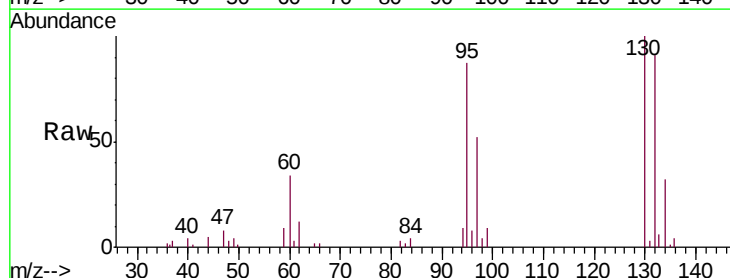
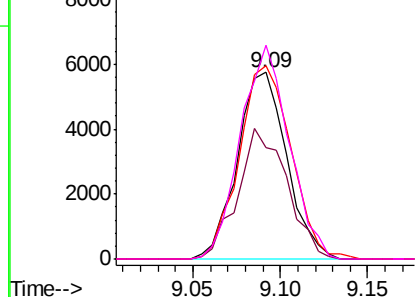
Ion	Ratio	Lower	Upper
95	100		
97	69.4	44.3	82.3
132	108.9	71.7	133.3
130	113.2	74.1	137.7

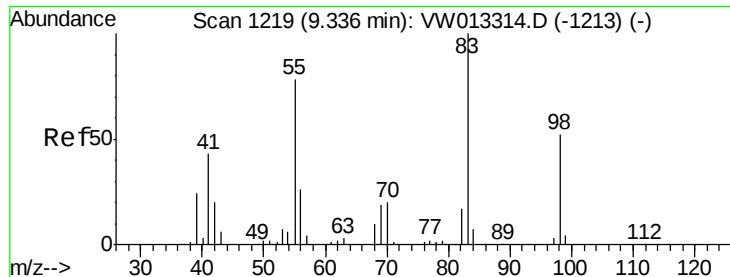
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

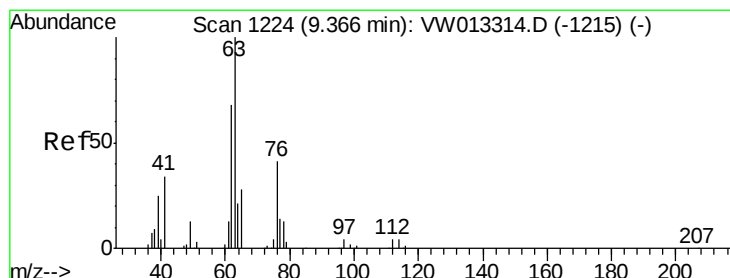
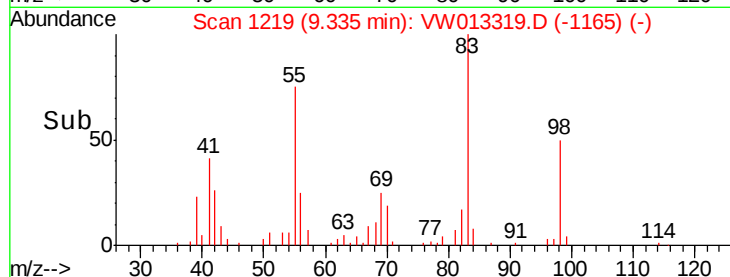
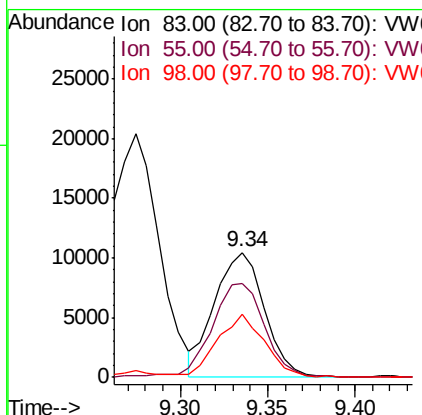
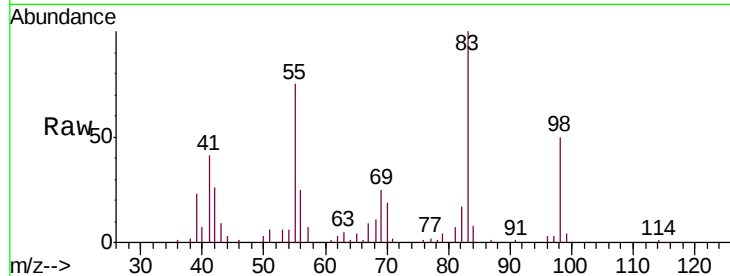




#36
Methylcyclohexane
Concen: 1.947 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

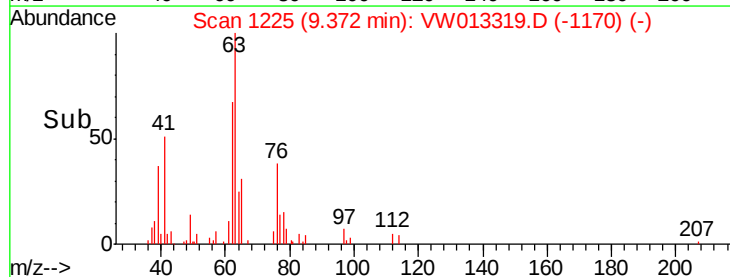
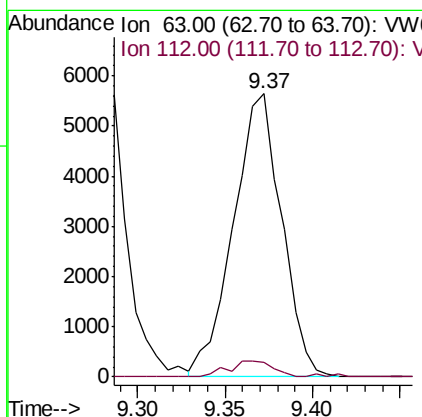
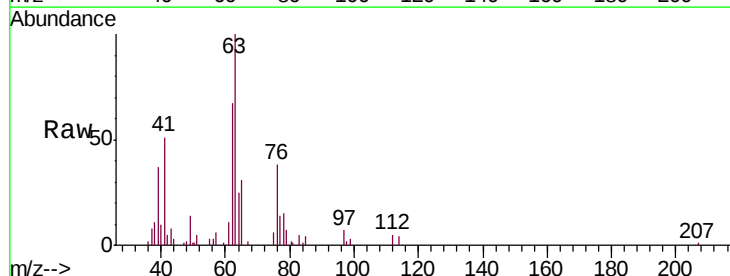
Instrument :
MSVOA_W
ClientSampled :
MDL04

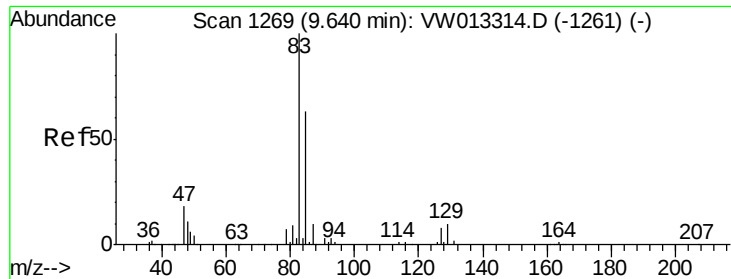
Tgt Ion: 83 Resp: 20881
Ion Ratio Lower Upper
83 100
55 77.5 61.8 92.6
98 47.4 39.6 59.4



#40
1,2-Dichloropropane
Concen: 1.919 ug/L
RT: 9.37 min Scan# 1225
Delta R.T. 0.01 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

Tgt Ion: 63 Resp: 10820
Ion Ratio Lower Upper
63 100
112 5.2 4.1 6.1





#41

Bromodichloromethane

Concen: 1.951 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

MDL04

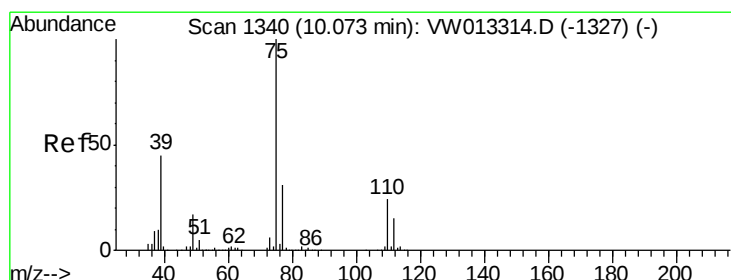
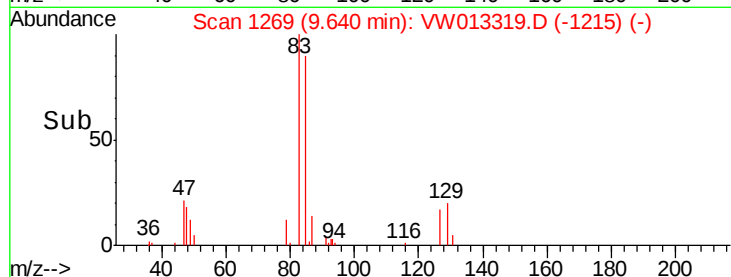
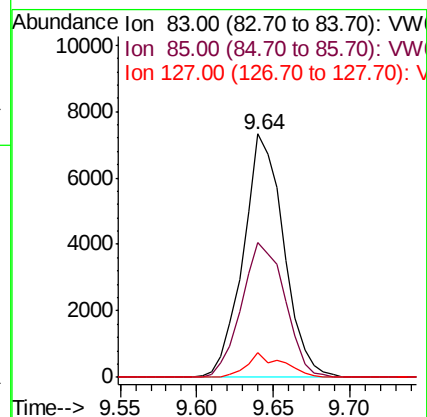
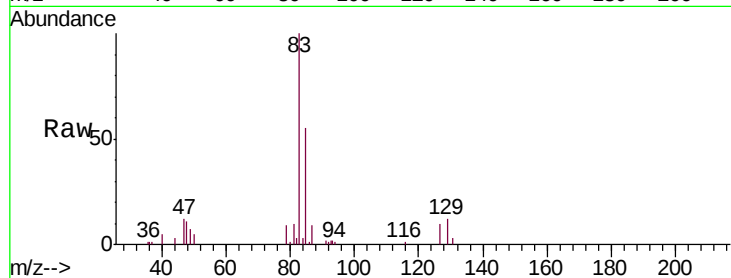
Tgt Ion: 83 Resp: 13492

Ion Ratio Lower Upper

83 100

85 55.2 43.8 81.4

127 10.0 7.0 10.6



#42

cis-1,3-Dichloropropene

Concen: 1.931 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013319.D

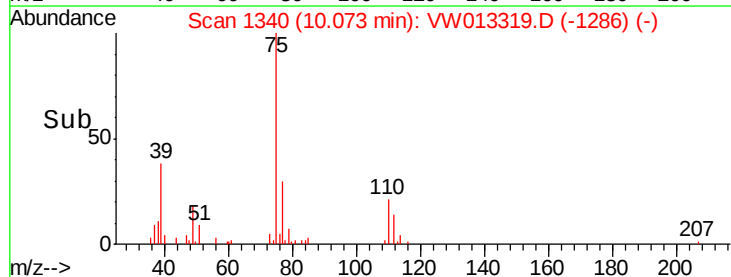
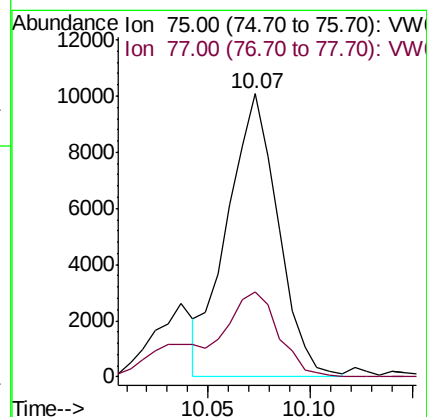
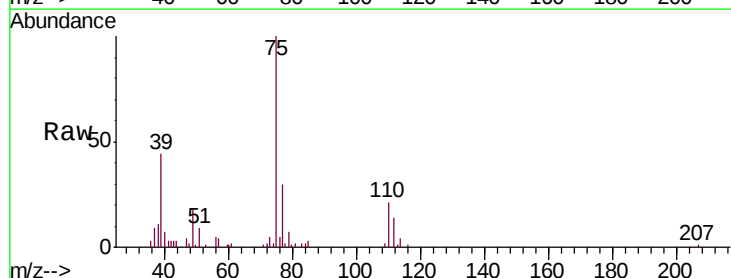
Acq: 27 Sep 2019 12:48

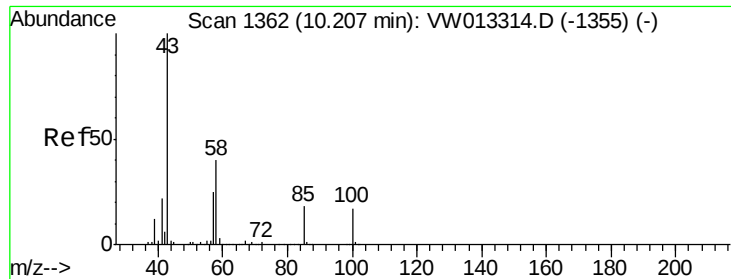
Tgt Ion: 75 Resp: 17388

Ion Ratio Lower Upper

75 100

77 30.2 21.3 39.5

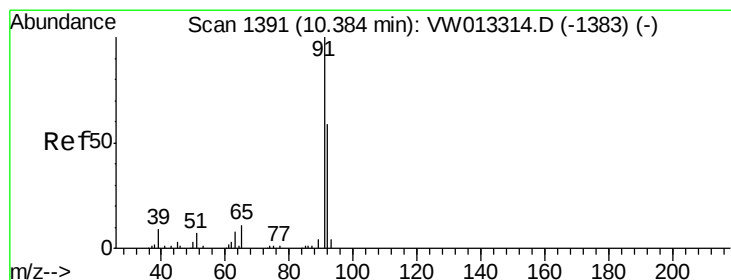
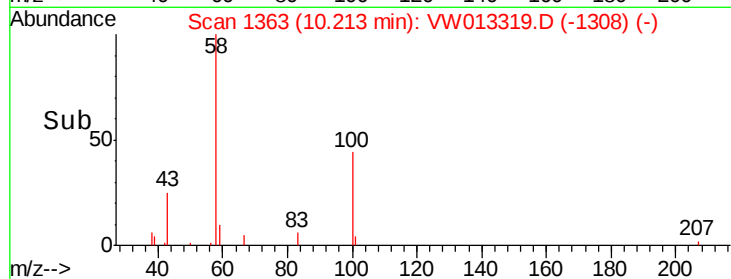
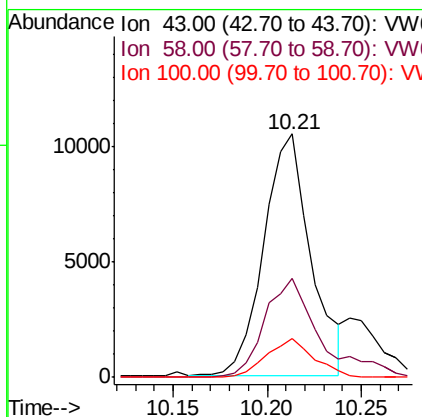
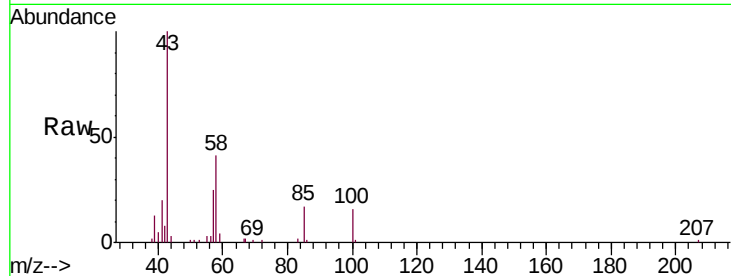




#43
 4-Methyl-2-pentanone
 Concen: 4.209 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VW013319.D
 Acq: 27 Sep 2019 12:48

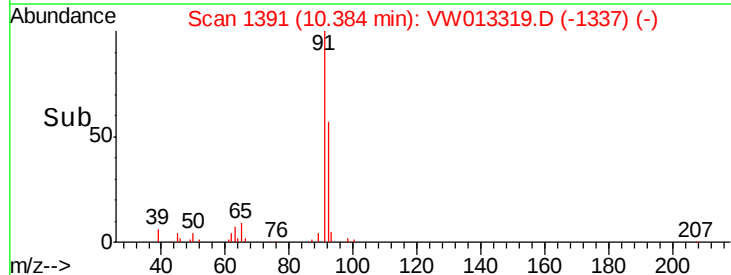
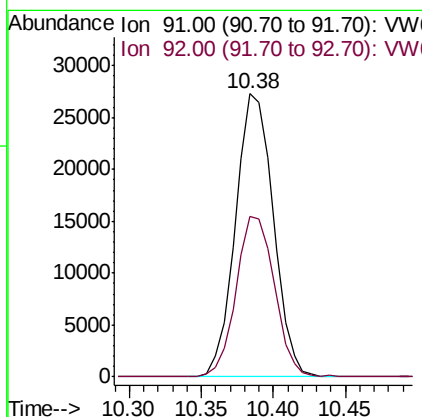
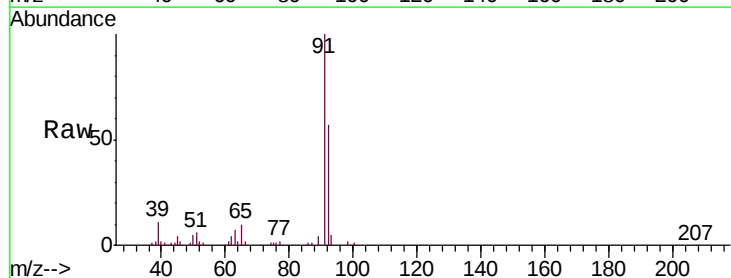
Instrument :
 MSVOA_W
 ClientSampled :
 MDL04

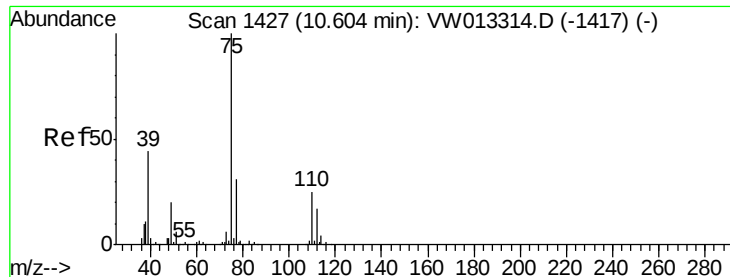
Tgt Ion: 43 Resp: 18162
 Ion Ratio Lower Upper
 43 100
 58 48.1 32.7 49.1
 100 16.0 12.9 19.3



#44
 Toluene
 Concen: 2.000 ug/L
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW013319.D
 Acq: 27 Sep 2019 12:48

Tgt Ion: 91 Resp: 49888
 Ion Ratio Lower Upper
 91 100
 92 56.6 41.5 77.1





#45

trans-1,3-Dichloropropene

Concen: 2.268 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

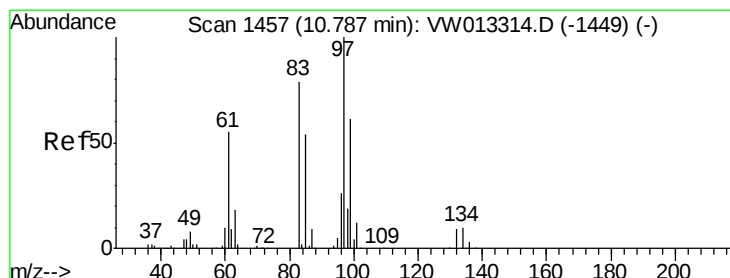
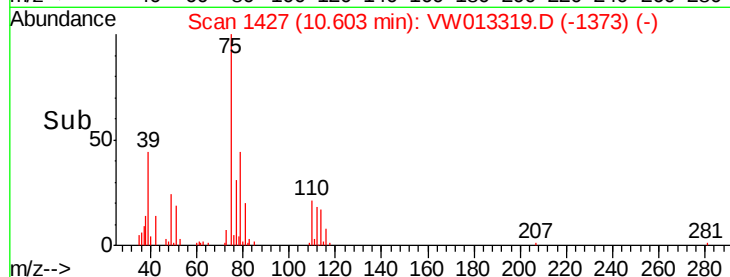
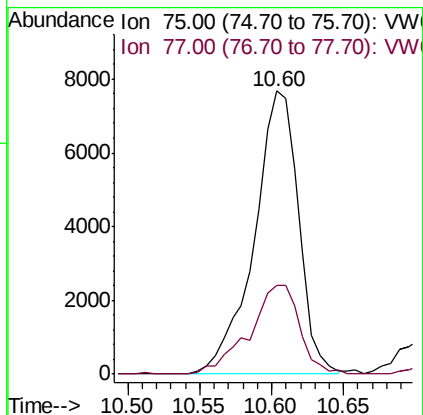
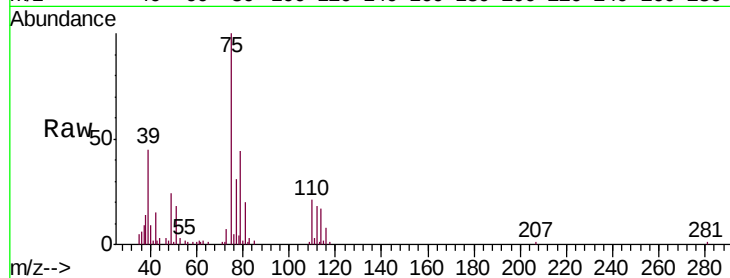
MDL04

Tgt Ion: 75 Resp: 16413

Ion Ratio Lower Upper

75 100

77 31.2 20.5 38.1



#46

1,1,2-Trichloroethane

Concen: 1.746 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Tgt Ion: 97 Resp: 7710

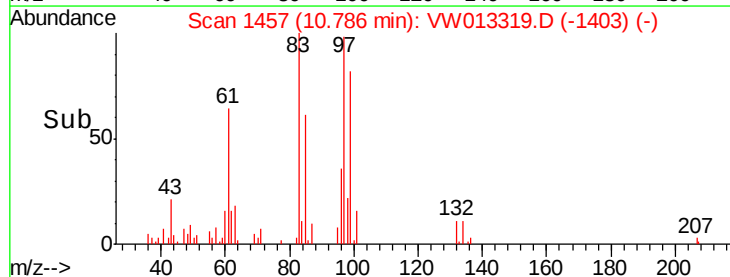
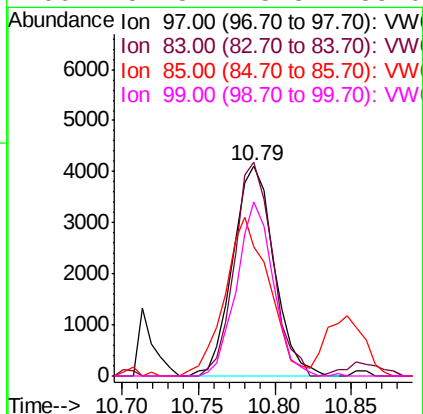
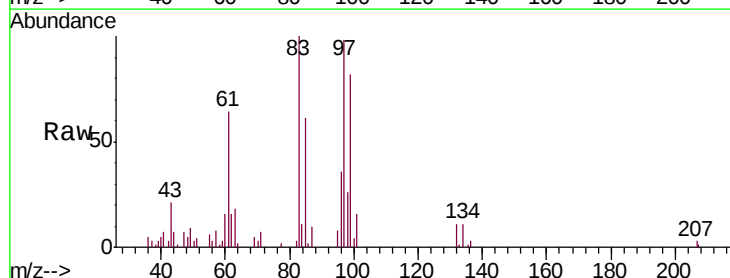
Ion Ratio Lower Upper

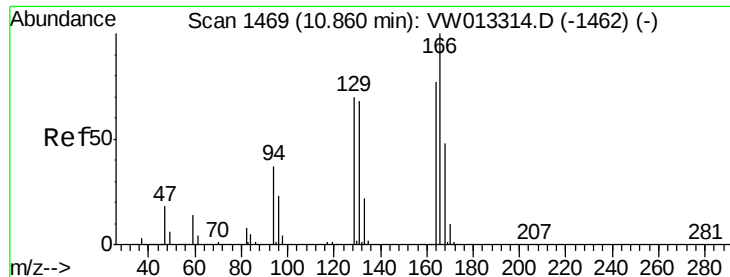
97 100

83 101.5 59.4 110.2

85 61.7 38.7 71.9

99 82.8 45.8 85.0





#47

Tetrachloroethene

Concen: 1.928 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

MDL04

Tgt Ion:164 Resp: 10441

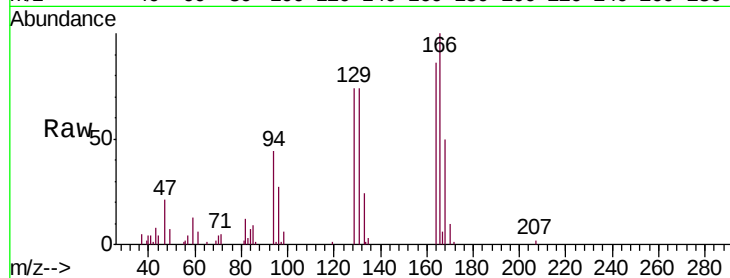
Ion Ratio Lower Upper

164 100

129 85.7 60.5 112.5

131 85.5 60.6 112.6

166 116.1 90.6 168.2

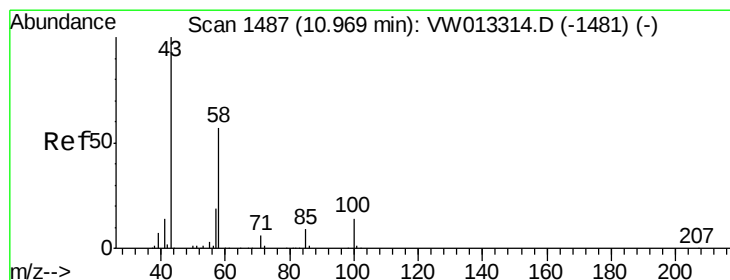
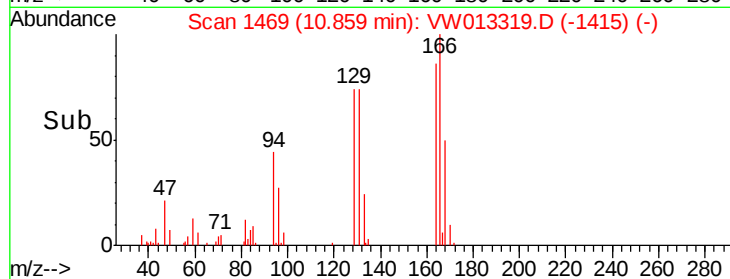
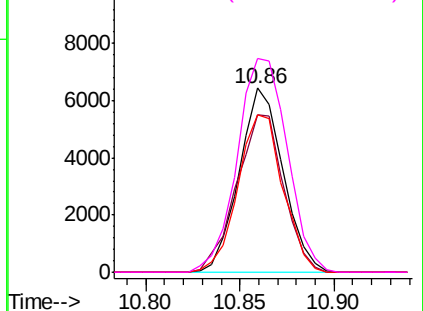


Abundance Ion 164.00 (163.70 to 164.70): V

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: 3.771 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Tgt Ion: 43 Resp: 11698

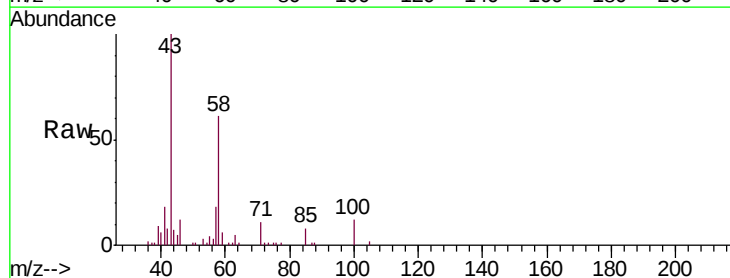
Ion Ratio Lower Upper

43 100

58 57.3 44.3 66.5

57 21.2 15.3 22.9

100 13.0 10.6 15.8

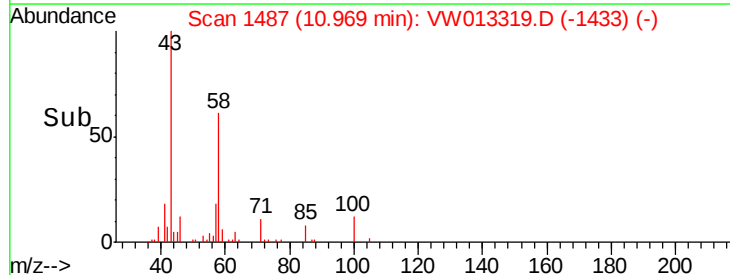
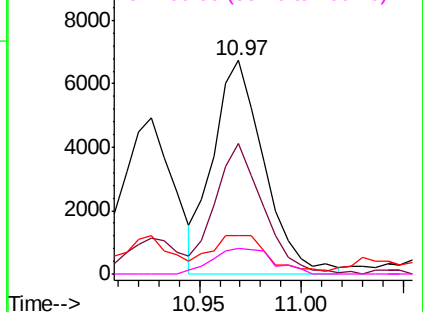


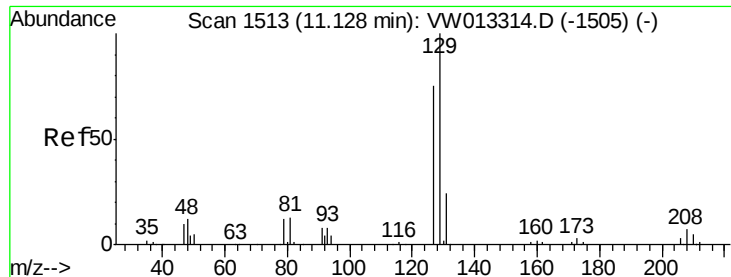
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 1.895 ug/L

RT: 11.13 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampled :

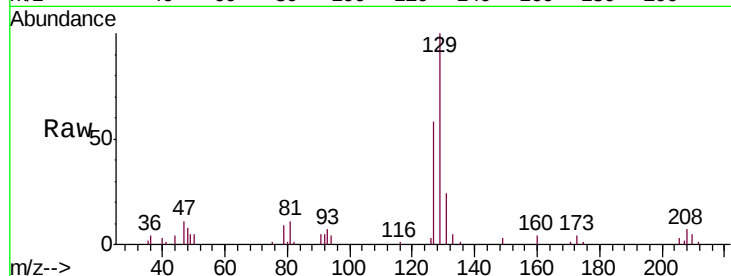
MDL04

Tgt Ion:129 Resp: 9600

Ion Ratio Lower Upper

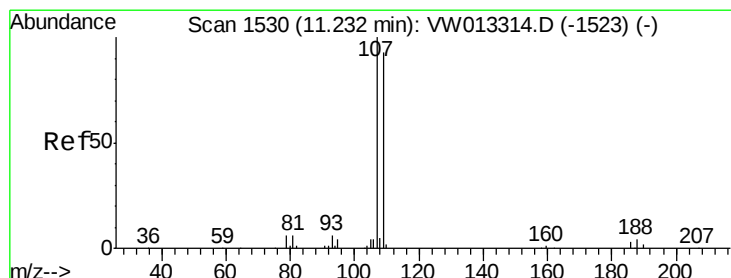
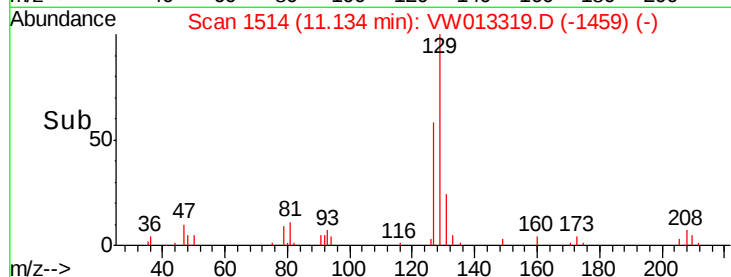
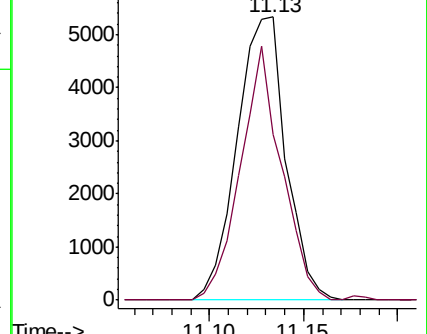
129 100

127 58.3 56.1 104.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 1.959 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

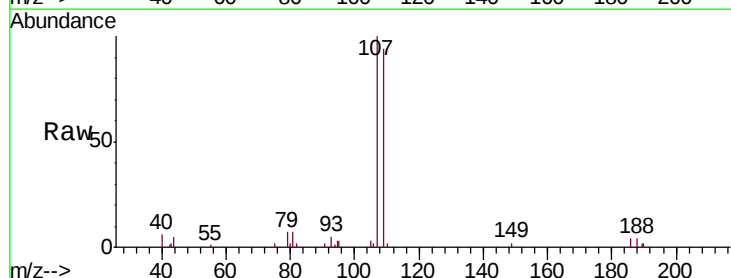
Tgt Ion:107 Resp: 8500

Ion Ratio Lower Upper

107 100

109 94.1 65.5 121.6

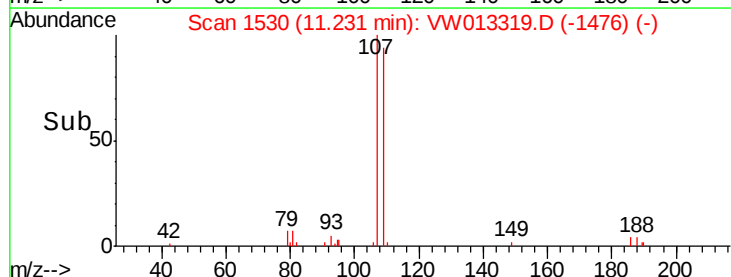
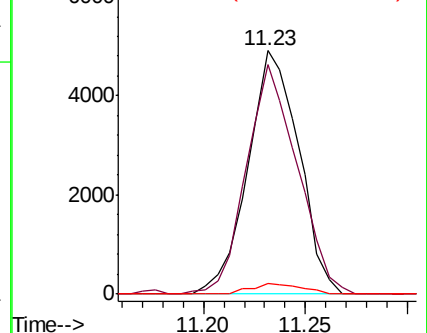
188 4.3 3.0 4.6

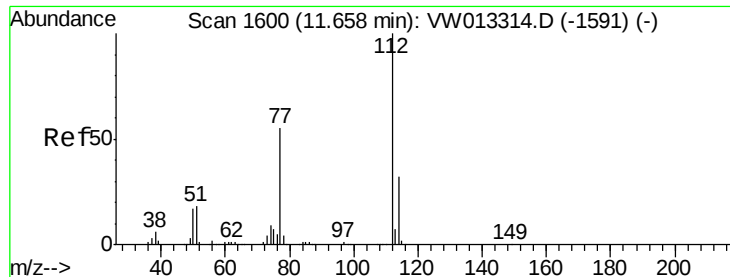


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 1.960 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

MDL04

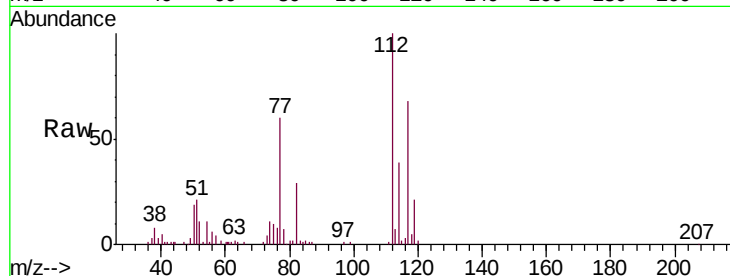
Tgt Ion: 112 Resp: 30805

Ion Ratio Lower Upper

112 100

77 59.9 46.5 69.7

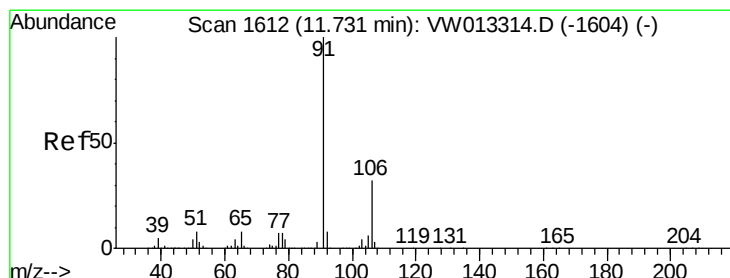
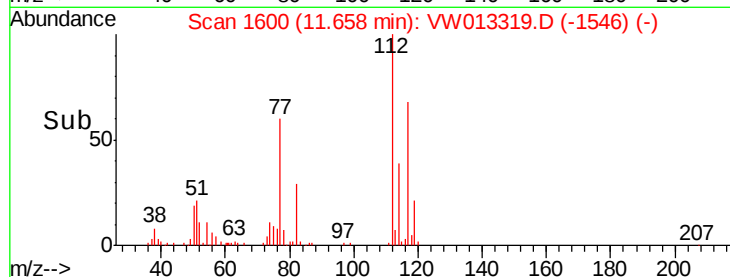
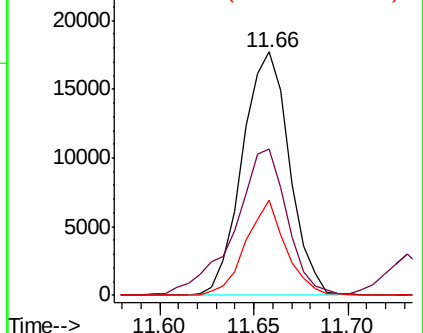
114 38.8 23.0 42.8



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: 1.896 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013319.D

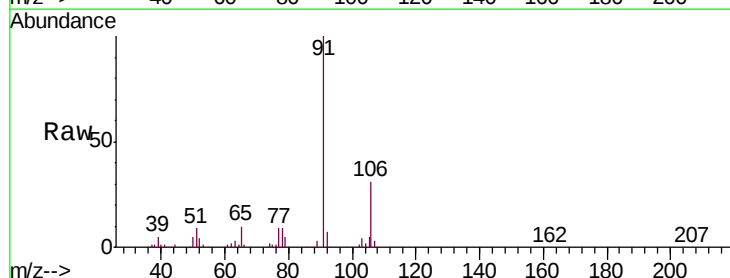
Acq: 27 Sep 2019 12:48

Tgt Ion: 91 Resp: 52441

Ion Ratio Lower Upper

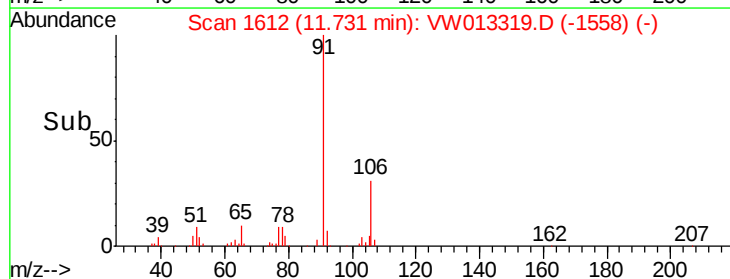
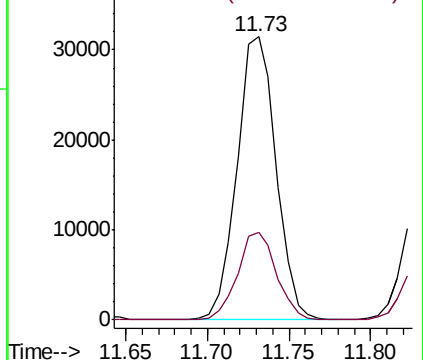
91 100

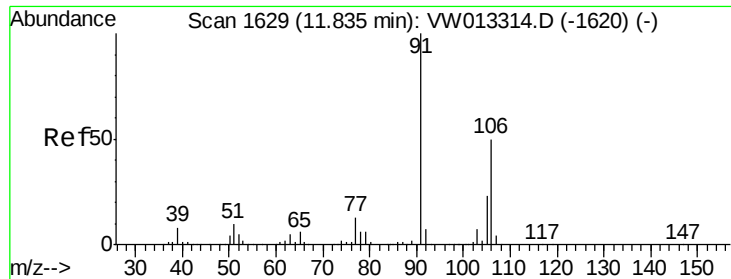
106 30.9 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

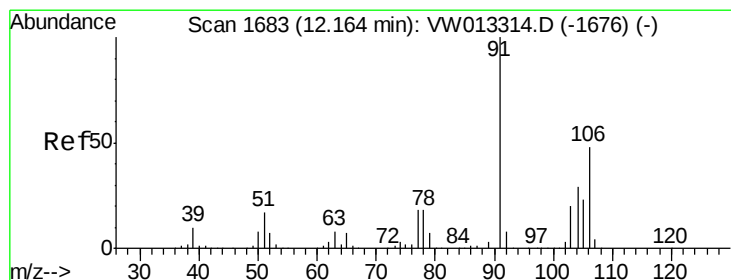
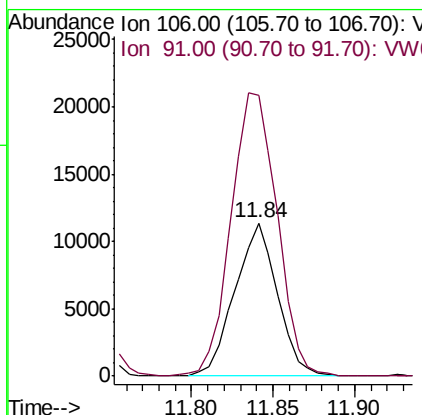
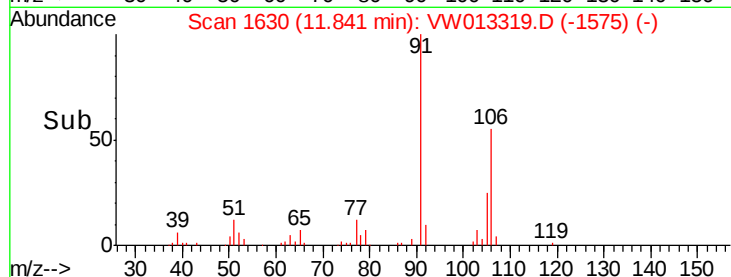
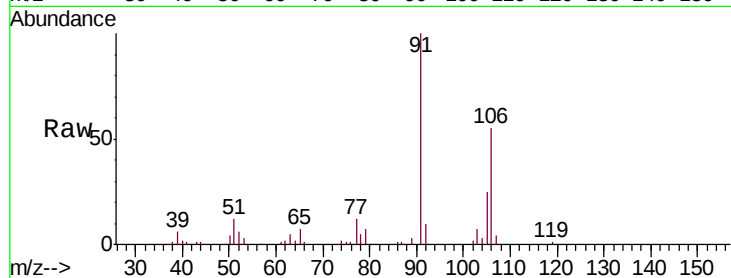




#54
m,p-Xylene
Concen: 1.942 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

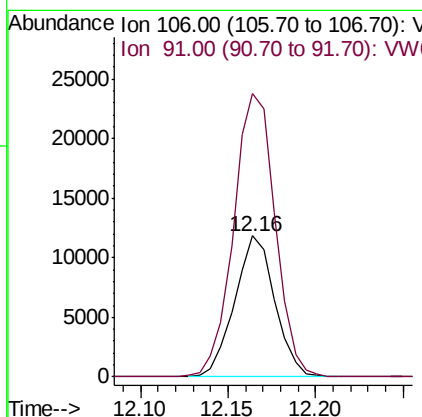
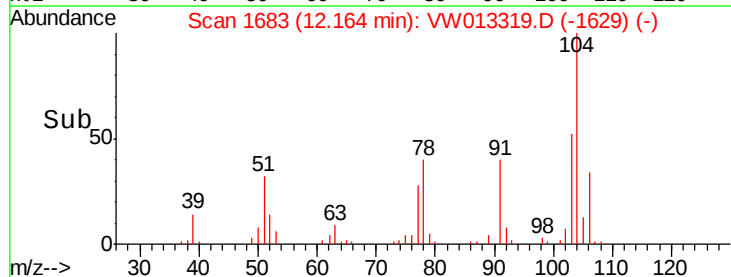
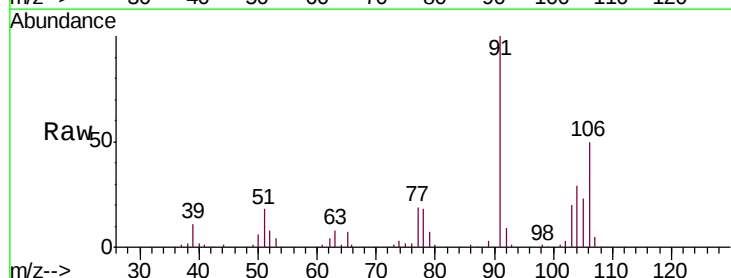
Instrument :
MSVOA_W
ClientSampleId :
MDL04

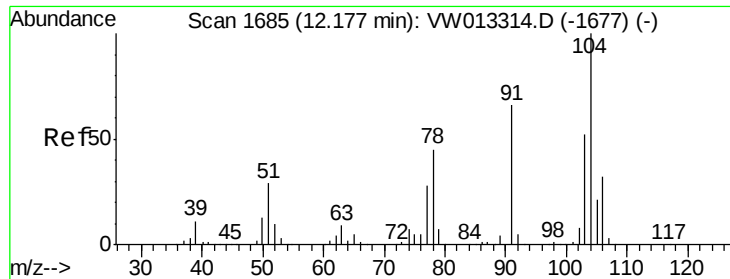
Tgt Ion:106 Resp: 20615
Ion Ratio Lower Upper
106 100
91 183.3 138.3 256.9



#55
o-xylene
Concen: 1.886 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

Tgt Ion:106 Resp: 18896
Ion Ratio Lower Upper
106 100
91 200.6 145.9 271.1





#56

Styrene

Concen: 1.831 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

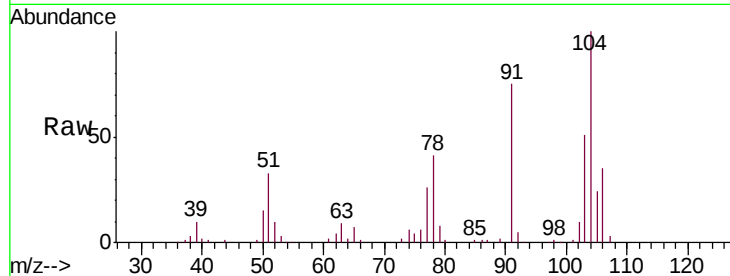
MDL04

Tgt Ion:104 Resp: 31447

Ion Ratio Lower Upper

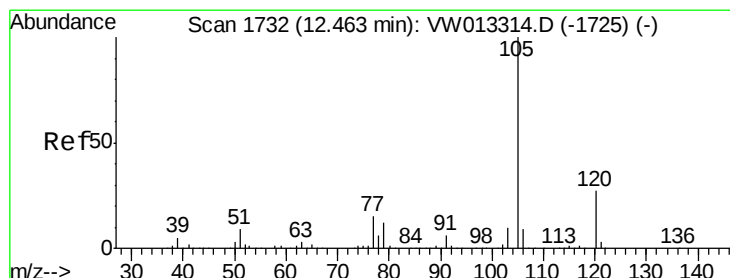
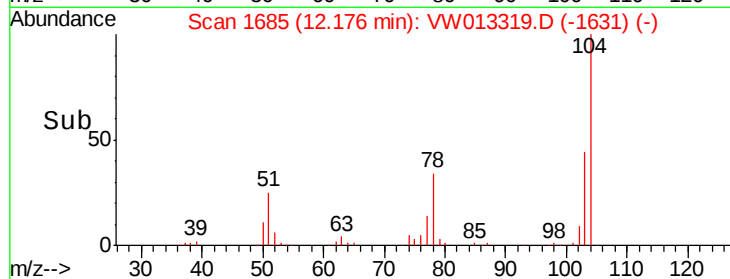
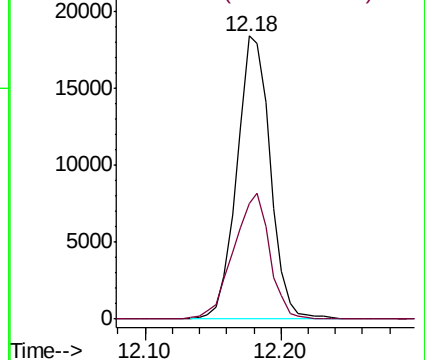
104 100

78 40.9 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: 1.830 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

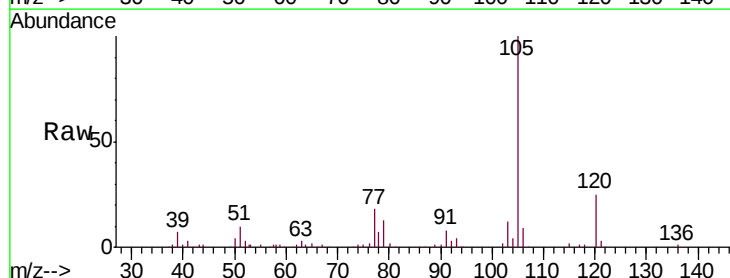
Tgt Ion:105 Resp: 49581

Ion Ratio Lower Upper

105 100

120 26.2 21.4 32.2

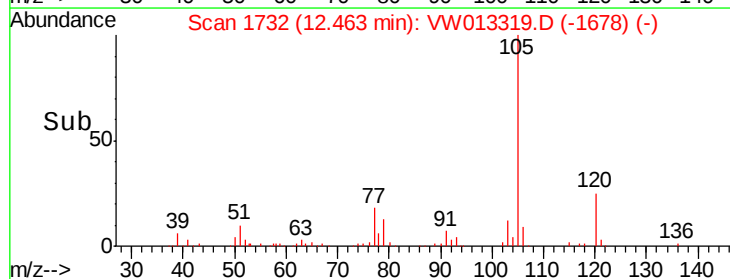
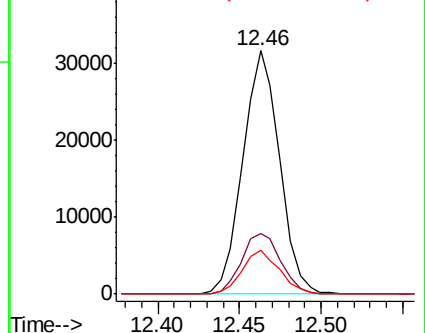
77 18.3 11.8 17.6#

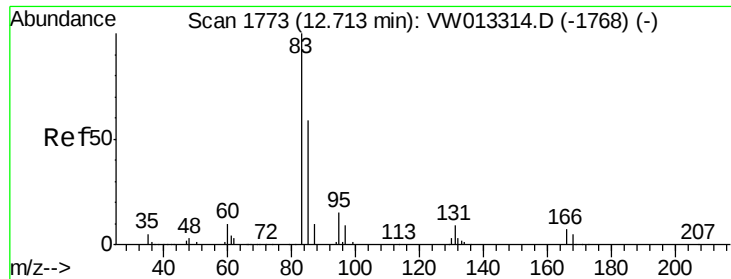


Abundance Ion 105.00 (104.70 to 105.70): V

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: 2.033 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampled :

MDL04

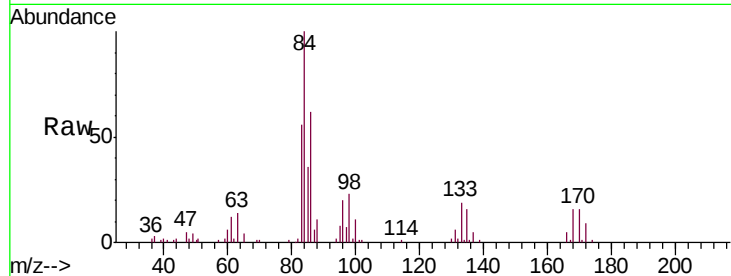
Tgt Ion: 83 Resp: 11061

Ion Ratio Lower Upper

83 100

85 64.5 45.2 84.0

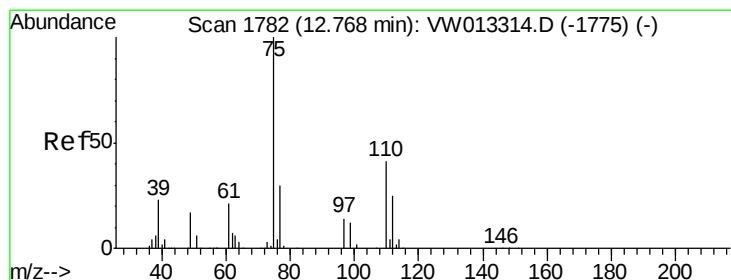
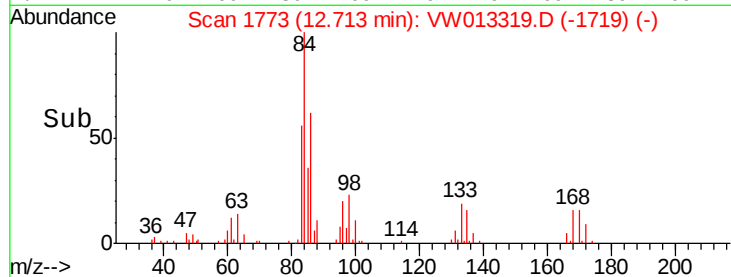
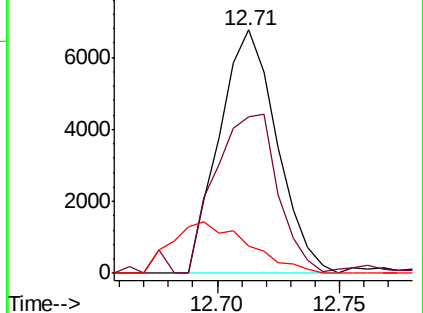
131 11.0 8.9 13.3



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW



#59

1,2,3-Trichloropropane

Concen: 2.073 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013319.D

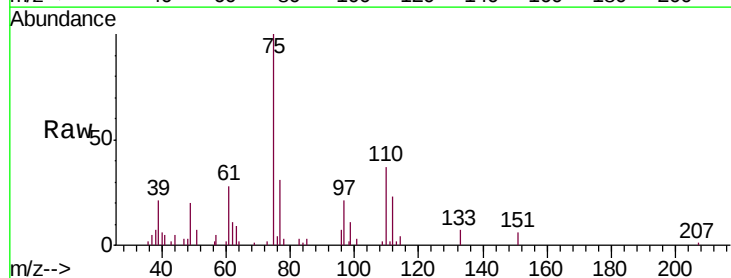
Acq: 27 Sep 2019 12:48

Tgt Ion: 75 Resp: 8419

Ion Ratio Lower Upper

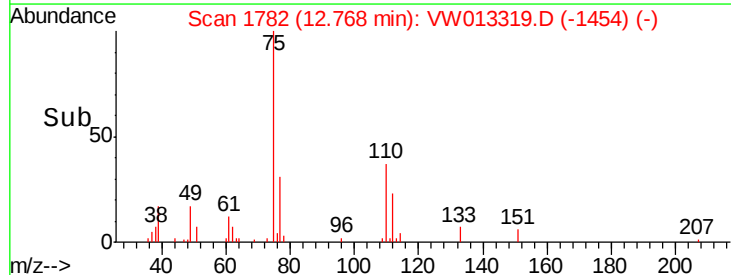
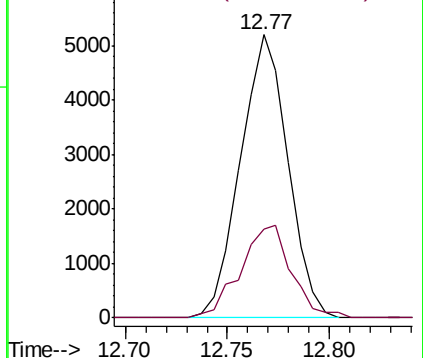
75 100

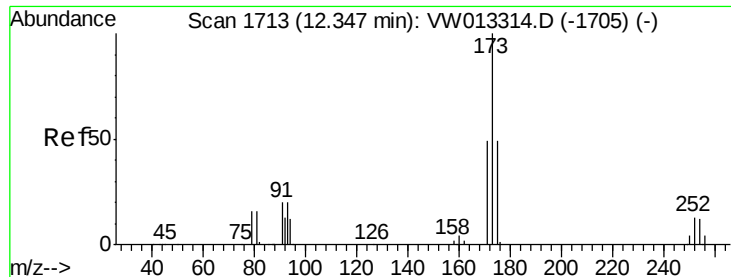
77 34.5 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

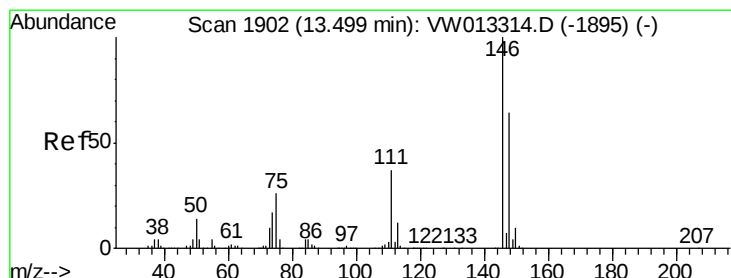
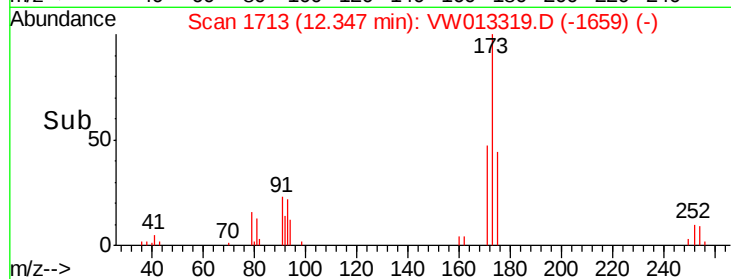
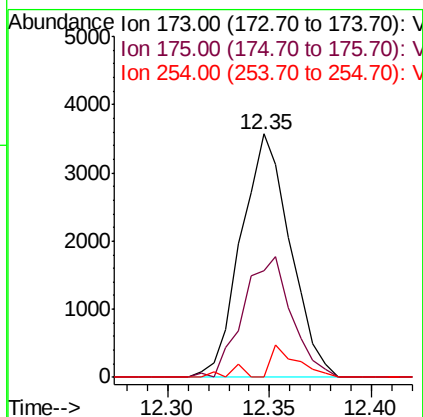
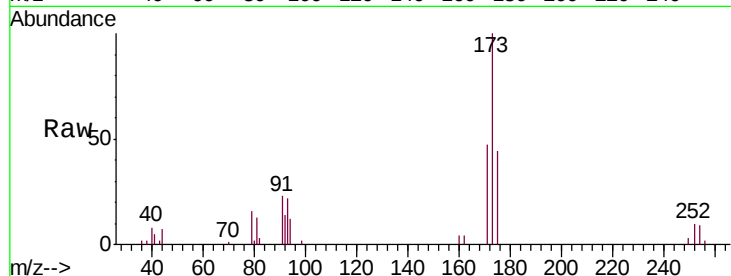




#62
Bromoform
Concen: 1.878 ug/L
RT: 12.35 min Scan# 1713
Delta R.T. -0.00 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

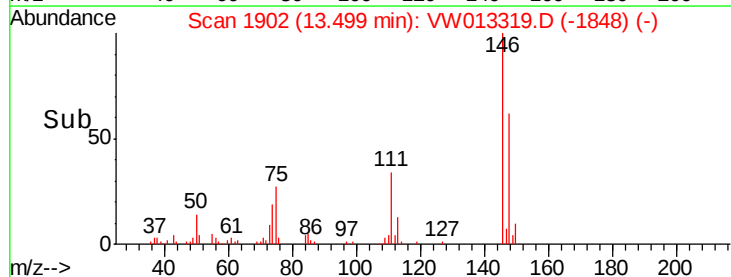
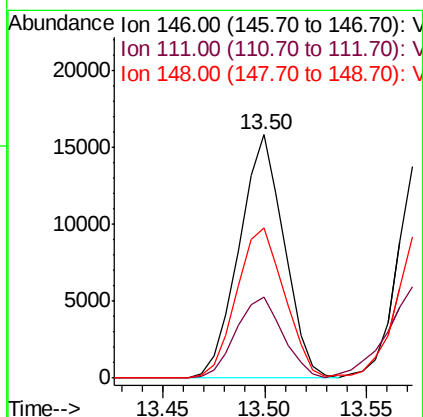
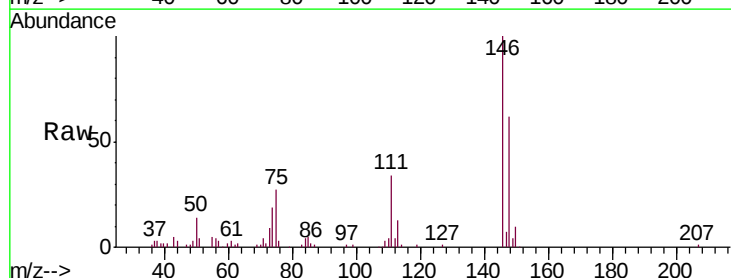
Instrument :
MSVOA_W
ClientSampleId :
MDL04

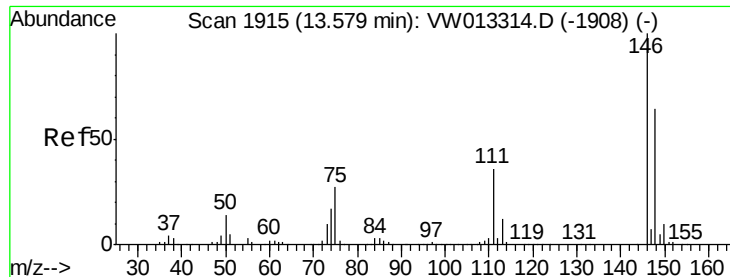
Tgt Ion:173 Resp: 5976
Ion Ratio Lower Upper
173 100
175 48.3 39.3 58.9
254 7.0 9.1 13.7#



#63
1,3-Dichlorobenzene
Concen: 1.956 ug/L
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW013319.D
Acq: 27 Sep 2019 12:48

Tgt Ion:146 Resp: 24201
Ion Ratio Lower Upper
146 100
111 33.5 26.7 49.5
148 61.8 45.0 83.6





#64

1,4-Dichlorobenzene

Concen: 1.992 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampled :

MDL04

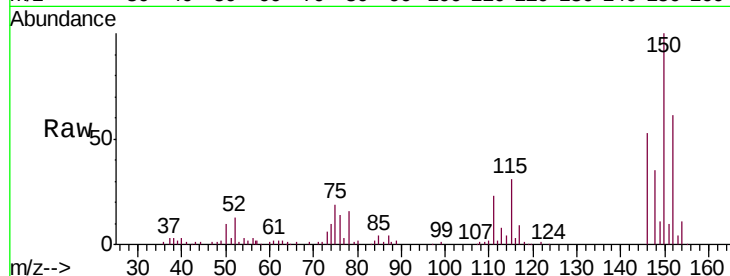
Tgt Ion:146 Resp: 24904

Ion Ratio Lower Upper

146 100

111 43.3 24.2 45.0

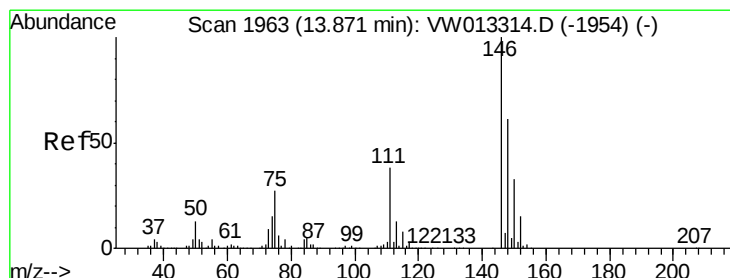
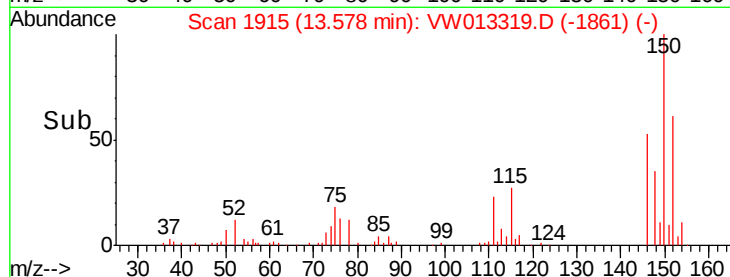
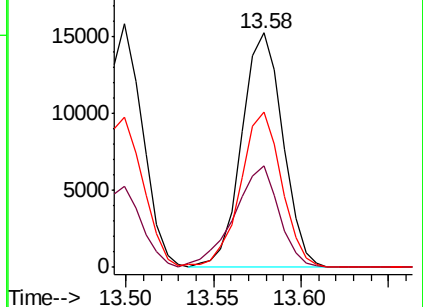
148 66.4 45.1 83.7



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: 2.053 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

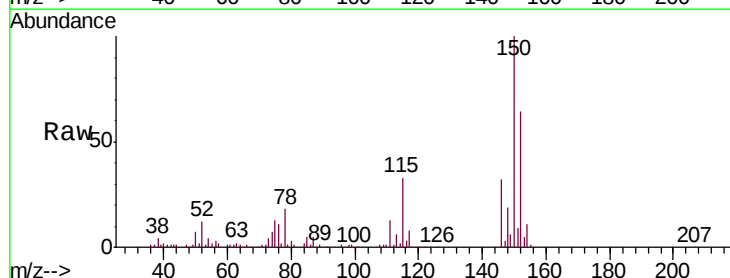
Tgt Ion:146 Resp: 23113

Ion Ratio Lower Upper

146 100

111 41.6 30.8 46.2

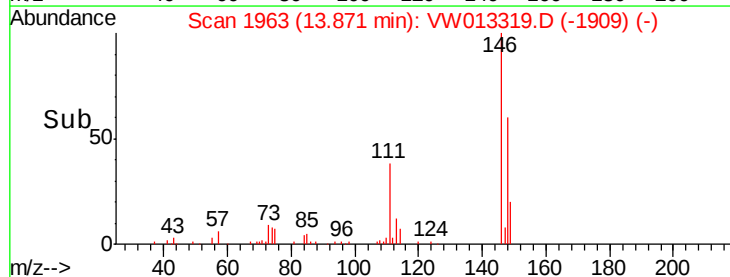
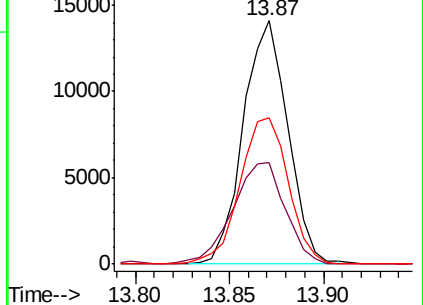
148 60.1 52.5 78.7

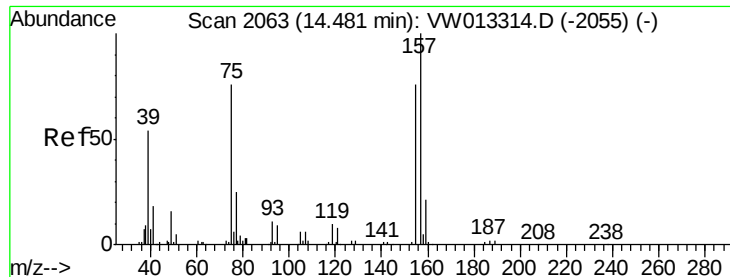


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

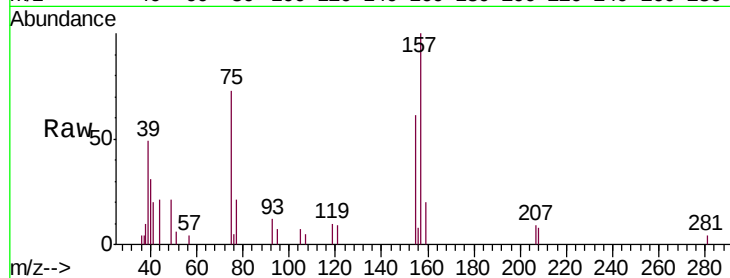




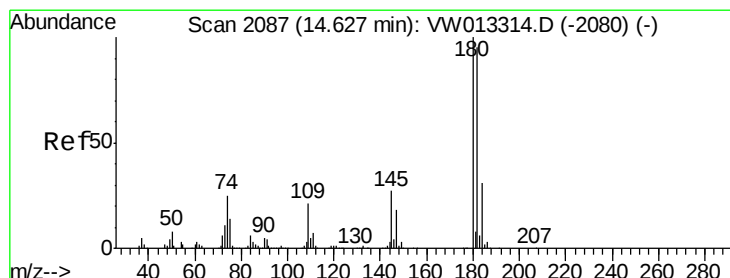
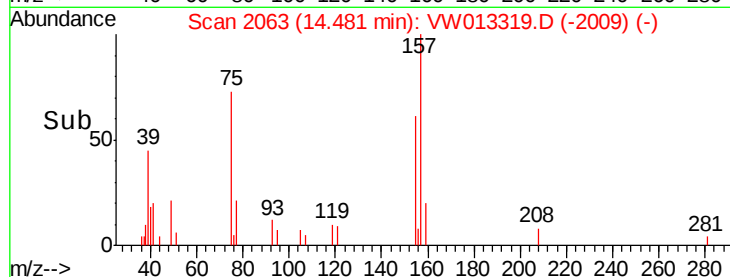
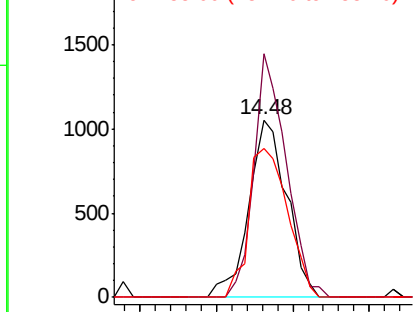
#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.043 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW013319.D
 Acq: 27 Sep 2019 12:48

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL04

Tgt Ion: 75 Resp: 1812
 Ion Ratio Lower Upper
 75 100
 157 137.4 97.8 146.8
 155 84.3 78.4 117.6

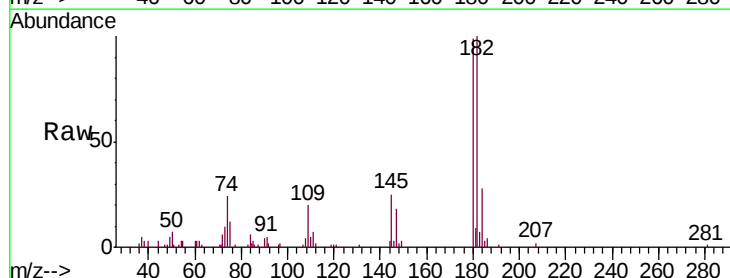


Abundance Ion 75.00 (74.70 to 75.70): VW
 Ion 157.00 (156.70 to 157.70): V
 Ion 155.00 (154.70 to 155.70): V

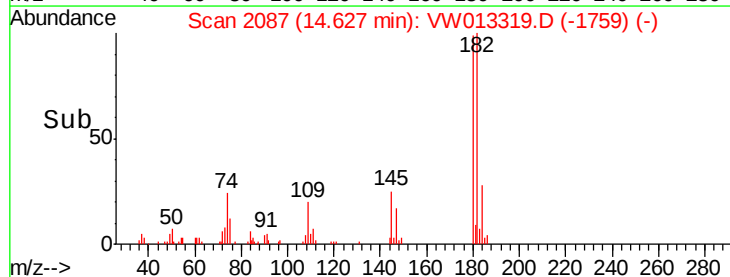
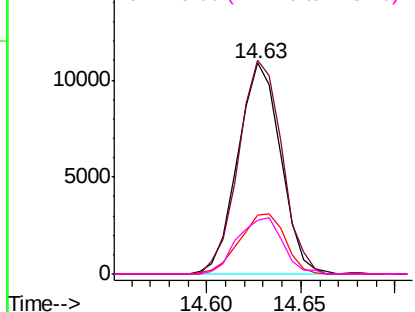


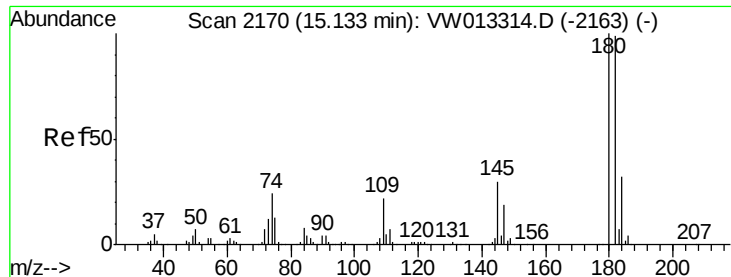
#67
 1,3,5-Trichlorobenzene
 Concen: 1.804 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013319.D
 Acq: 27 Sep 2019 12:48

Tgt Ion: 180 Resp: 17184
 Ion Ratio Lower Upper
 180 100
 182 102.3 76.4 114.6
 184 30.5 23.9 35.9
 145 28.1 21.7 32.5



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





#68

1,2,4-trichlorobenzene

Concen: 1.625 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

MDL04

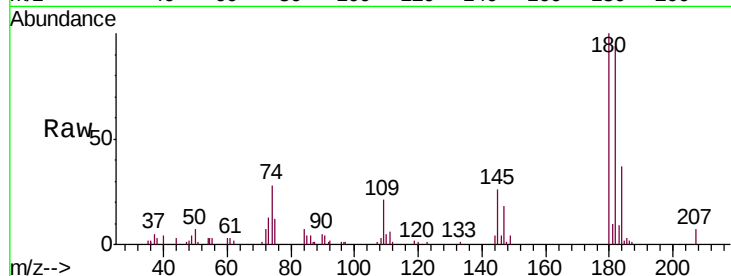
Tgt Ion:180 Resp: 12357

Ion Ratio Lower Upper

180 100

182 95.4 75.9 113.9

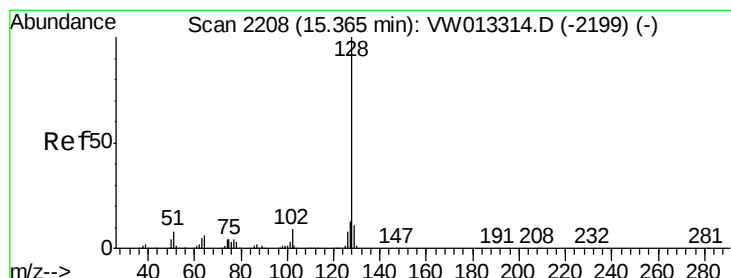
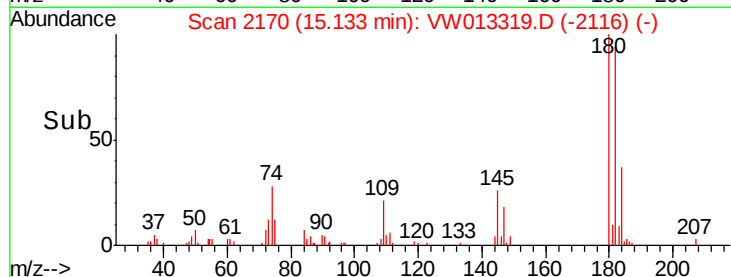
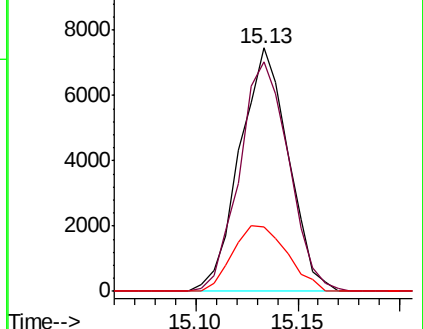
145 30.1 23.0 34.4



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: 1.474 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW013319.D

Acq: 27 Sep 2019 12:48

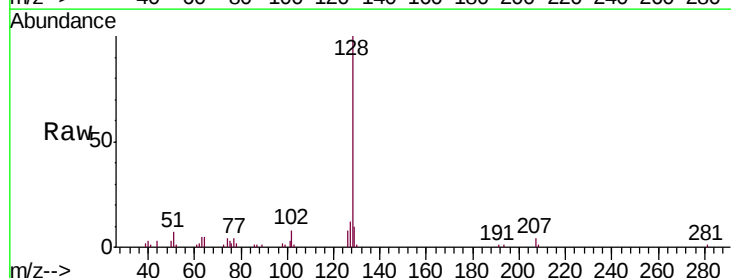
Tgt Ion:128 Resp: 21418

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

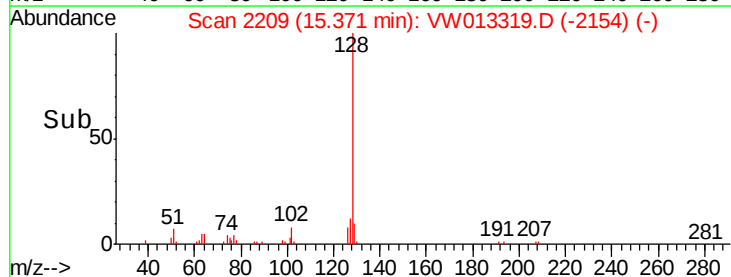
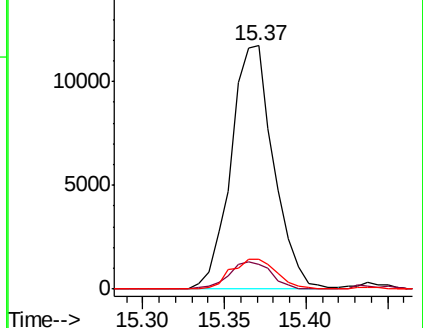
127 13.2 10.6 15.8

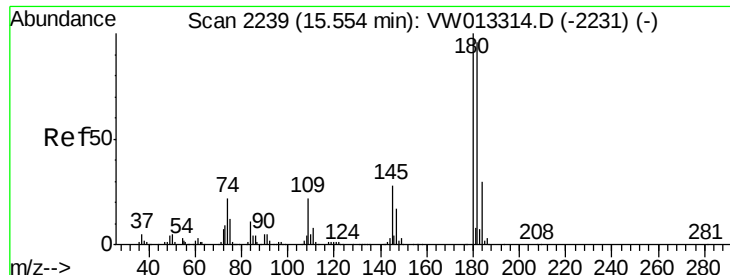


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 1.717 ug/L
 RT: 15.55 min Scan# 2239
 Delta R.T. -0.00 min
 Lab File: VW013319.D
 Acq: 27 Sep 2019 12:48

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	78.2	117.4
145	31.4	24.1	36.1

