

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121019\
 Data File : VW014295.D
 Acq On : 10 Dec 2019 21:07
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 11 04:12:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 11 04:05:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1153417	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1060132	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	521573	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	407261	23.32	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.28%
7) Chloroethane-d5	2.89	69	343502	26.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.80%
10) 1,1-Dichloroethene-d2	4.03	63	754353	24.45	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	97.80%
20) 2-Butanone-d5	7.07	46	247391	54.35	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.70%
24) Chloroform-d	7.65	84	821866	27.99	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	111.96%
26) 1,2-Dichloroethane-d4	8.30	65	435006	28.25	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	113.00%
29) Benzene-d6	8.27	84	1688625	27.18	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	108.72%
33) 1,2-Dichloropropane-d6	9.27	67	529479	27.70	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	110.80%
37) Toluene-d8	10.32	98	1525733	27.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	108.64%
38) trans-1,3-Dichloropropene-	10.57	79	214544	26.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	107.00%
39) 2-Hexanone-d5	10.92	63	207108	54.49	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.98%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	421692	27.07	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	108.28%
61) 1,2-Dichlorobenzene-d4	13.85	152	530756	26.63	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	106.52%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	228071	20.790	ug/L 99
3) Chloromethane	2.21	50	223759	20.290	ug/L 100
5) Vinyl chloride	2.36	62	389371	23.846	ug/L 95
6) Bromomethane	2.78	94	239148	23.744	ug/L 100
8) Chloroethane	2.92	64	226913	24.324	ug/L 93
9) Trichlorofluoromethane	3.26	101	170708	21.117	ug/L 98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	352766	23.188	ug/L 94
13) Acetone	4.12	43	160464	36.567	ug/L 97
14) Carbon disulfide	4.38	76	1069058	22.631	ug/L 99
15) Methyl Acetate	4.67	43	185399	22.336	ug/L 98
16) Methylene chloride	4.92	84	408361	23.095	ug/L 95
17) Methyl tert-butyl Ether	5.42	73	467783	23.030	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	374748	22.719	ug/L 94
19) 1,1-Dichloroethane	6.21	63	714563	24.112	ug/L 97
21) 2-Butanone	7.16	43	246606	41.858	ug/L 97
22) cis-1,2-Dichloroethene	7.16	96	409742	23.345	ug/L 95
23) Bromochloromethane	7.51	128	184763	22.885	ug/L 85

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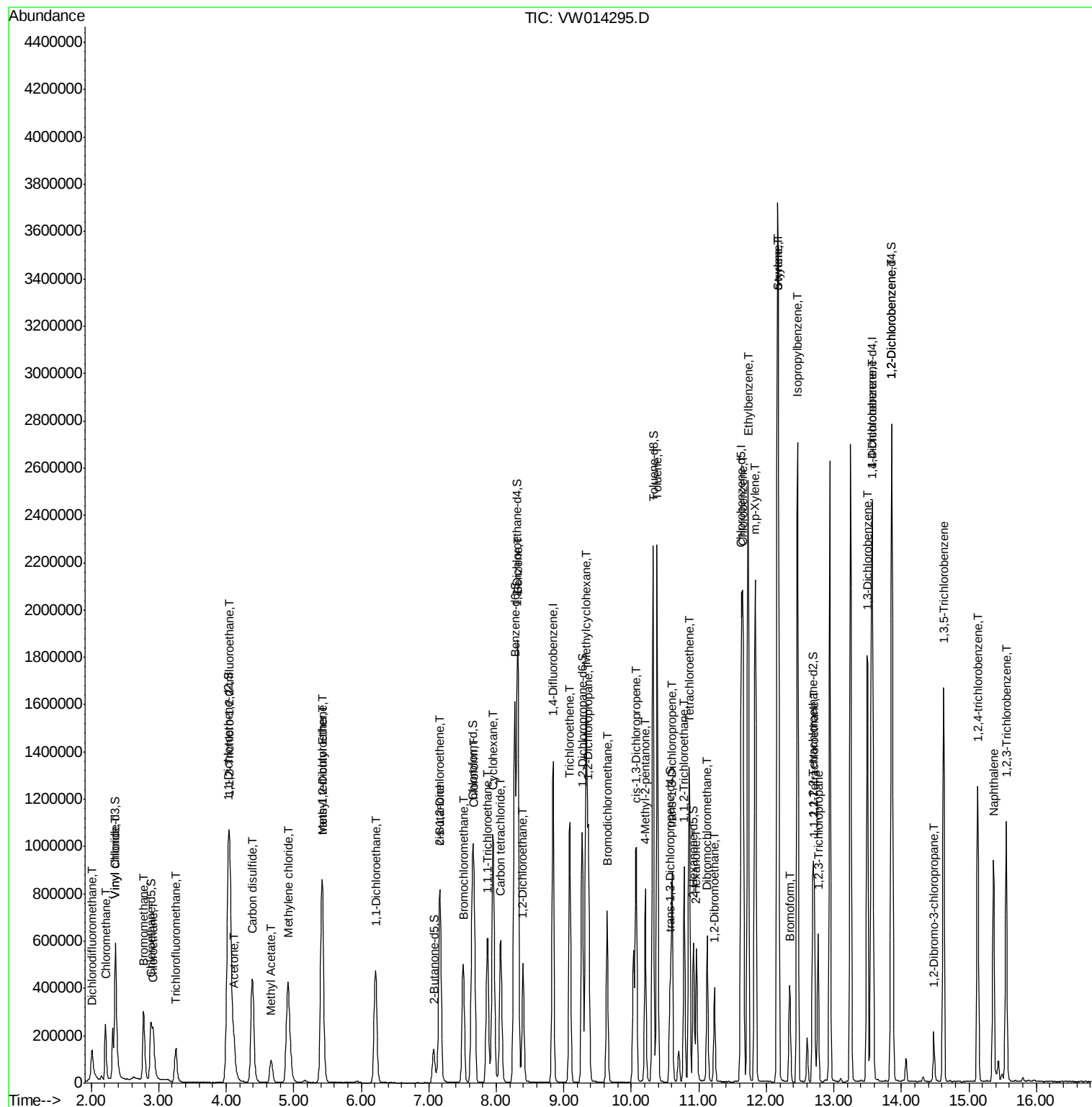
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	696153	24.174	ug/L	99
27) 1,2-Dichloroethane	8.40	62	453101	24.028	ug/L	97
30) Cyclohexane	7.95	56	617568	23.339	ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	507837	23.853	ug/L	97
32) Carbon tetrachloride	8.07	117	468722	23.203	ug/L	100
34) Benzene	8.32	78	1605830	23.923	ug/L	100
35) Trichloroethene	9.09	95	391266	22.782	ug/L	96
36) Methylcyclohexane	9.34	83	640562	22.195	ug/L	96
40) 1,2-Dichloropropane	9.37	63	409995	23.775	ug/L	99
41) Bromodichloromethane	9.64	83	491975	23.475	ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	611873	23.693	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	529072	46.526	ug/L	98
44) Toluene	10.38	91	1682981	23.915	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	494624	23.661	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	295619	22.876	ug/L	98
47) Tetrachloroethene	10.86	164	315925	22.070	ug/L	97
49) 2-Hexanone	10.96	43	362807	44.814	ug/L	99
50) Dibromochloromethane	11.13	129	335297	23.119	ug/L	99
51) 1,2-Dibromoethane	11.23	107	273353	22.332	ug/L #	97
52) Chlorobenzene	11.65	112	1055444	23.206	ug/L	94
53) Ethylbenzene	11.73	91	1822387	23.866	ug/L	99
54) m,p-Xylene	11.83	106	696686	23.718	ug/L	98
55) o-xylene	12.16	106	666839	23.934	ug/L	99
56) Styrene	12.18	104	1166681	24.477	ug/L	97
57) Isopropylbenzene	12.46	105	1732636	23.954	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	357773	22.306	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	265821	22.304	ug/L	100
62) Bromoform	12.35	173	194736	21.998	ug/L	99
63) 1,3-Dichlorobenzene	13.49	146	790385	22.546	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	800607	22.478	ug/L	97
65) 1,2-Dichlorobenzene	13.86	146	735133	22.550	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	53363	21.219	ug/L	84
67) 1,3,5-Trichlorobenzene	14.63	180	548584	21.750	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	425089	21.619	ug/L	99
69) Naphthalene	15.36	128	806612	21.814	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	395632	21.456	ug/L	98

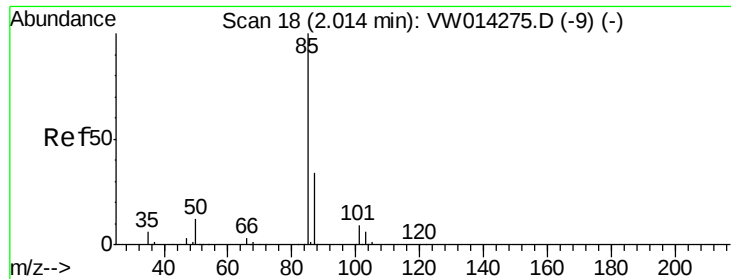
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 20.790 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

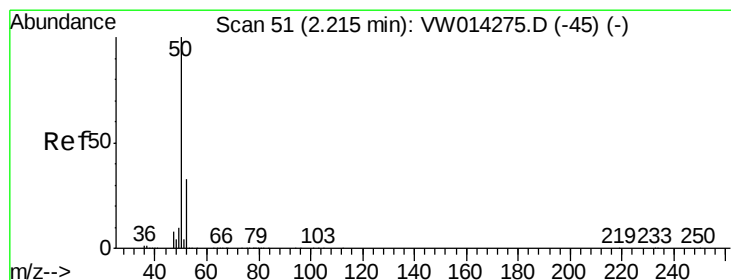
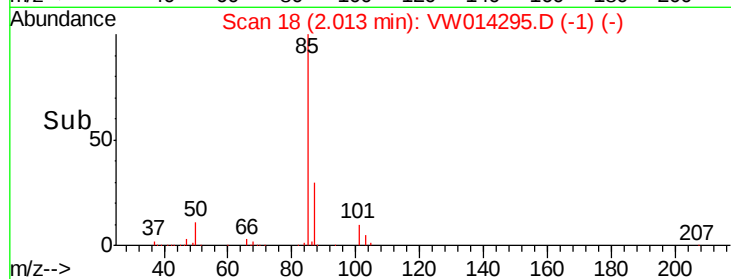
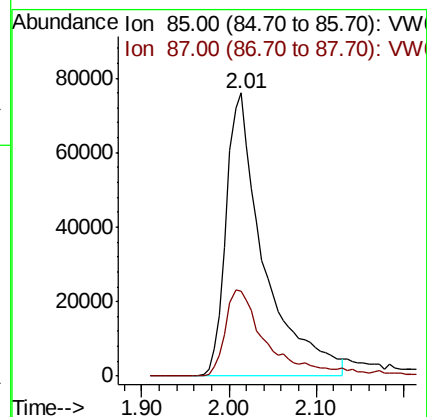
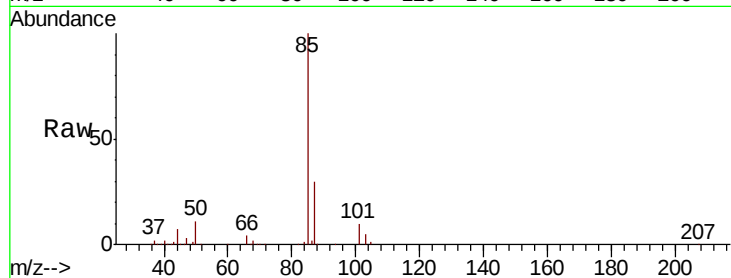
ClientSampleId :

Tot Ion: 85 Resp: 228071

Ion Ratio Lower Upper

85 100

87 32.4 22.1 41.1



#3

Chloromethane

Concen: 20.290 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW014295.D

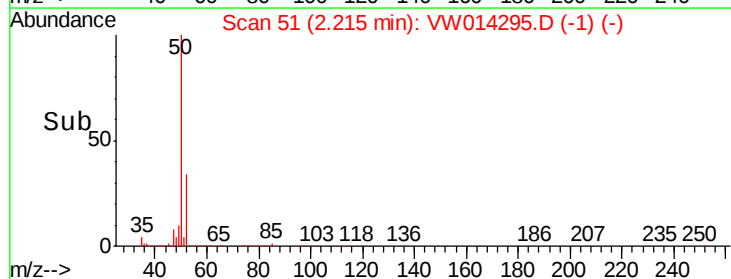
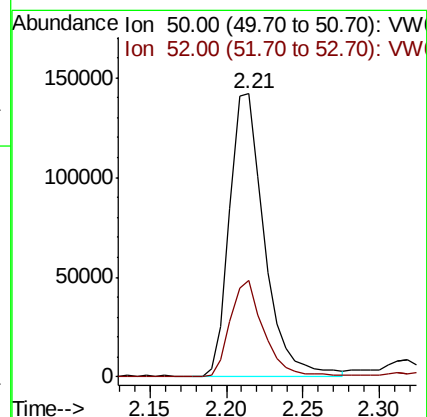
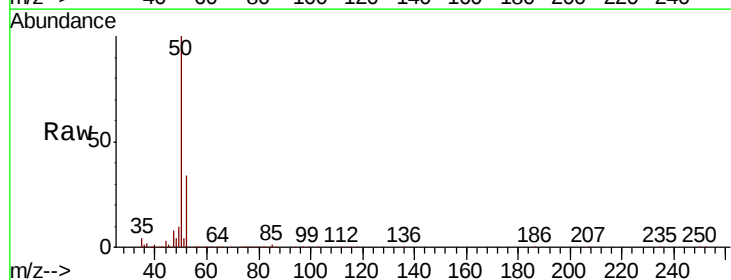
Acq: 10 Dec 2019 21:07

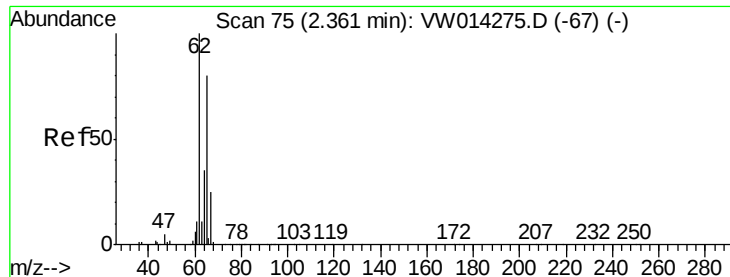
Tgt Ion: 50 Resp: 223759

Ion Ratio Lower Upper

50 100

52 34.0 23.8 44.2





#5

Vinyl chloride

Concen: 23.846 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

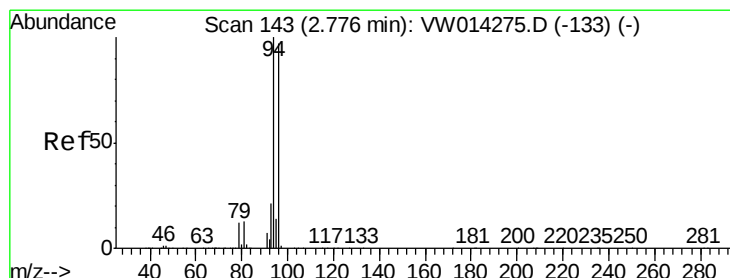
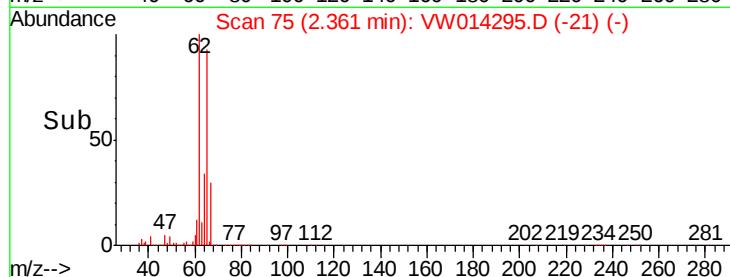
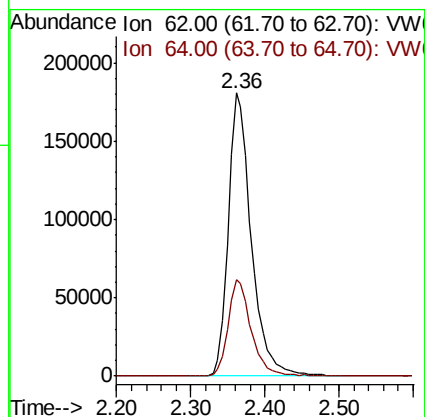
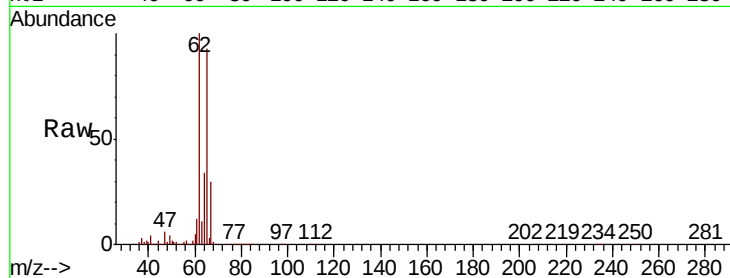
ClientSampled :

Tot Ion: 62 Resp: 389371

Ion Ratio Lower Upper

62 100

64 34.1 21.8 40.4



#6

Bromomethane

Concen: 23.744 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014295.D

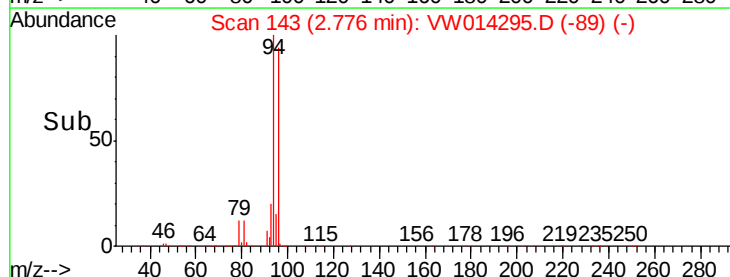
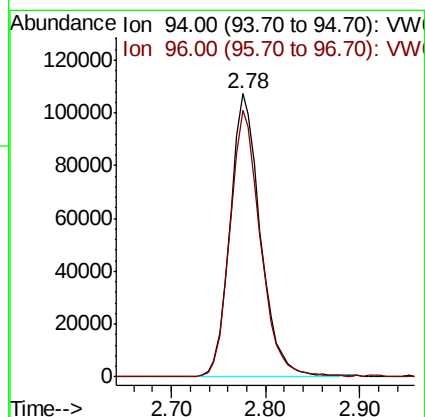
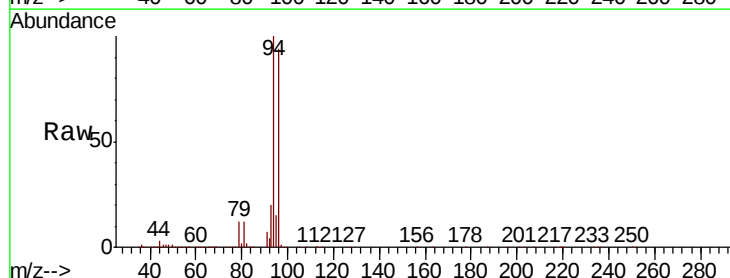
Acq: 10 Dec 2019 21:07

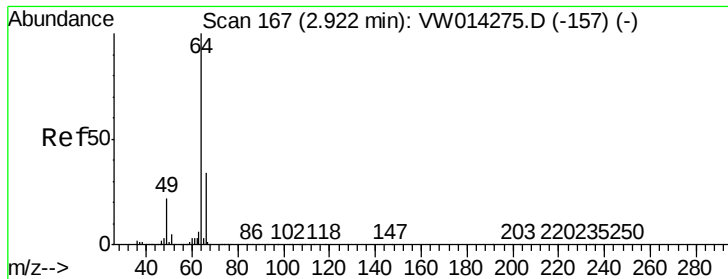
Tgt Ion: 94 Resp: 239148

Ion Ratio Lower Upper

94 100

96 94.5 9.4 178.8





#8

Chloroethane

Concen: 24.324 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

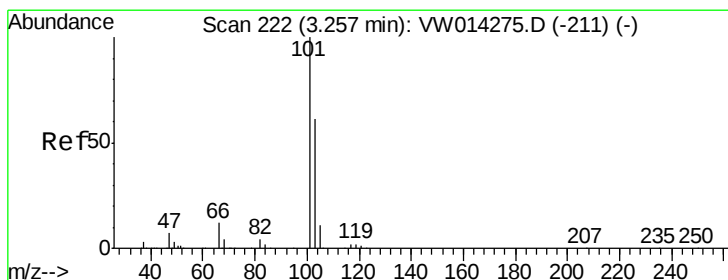
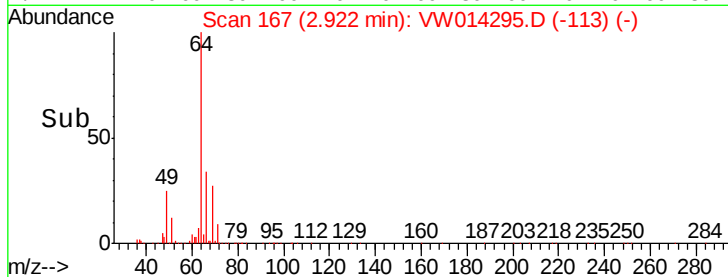
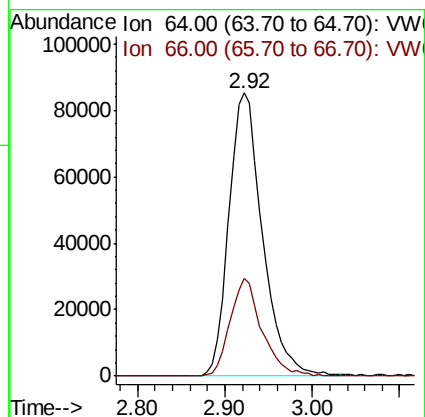
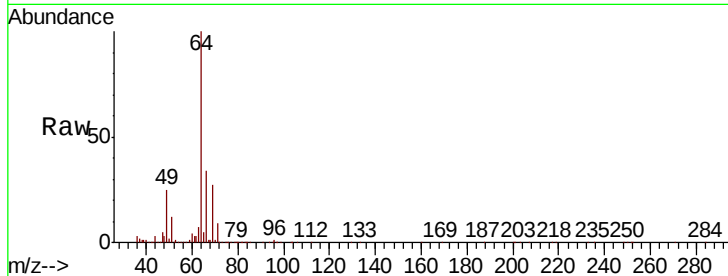
ClientSampleId :

Tot Ion: 64 Resp: 226913

Ion Ratio Lower Upper

64 100

66 34.3 21.2 39.4



#9

Trichlorofluoromethane

Concen: 21.117 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW014295.D

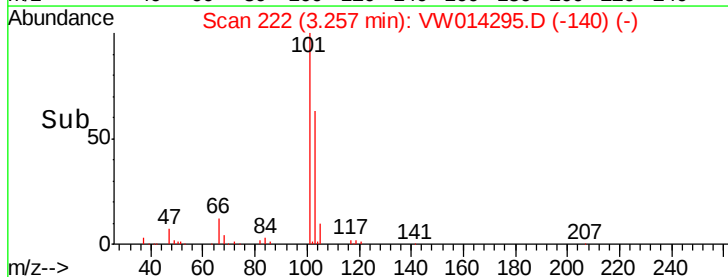
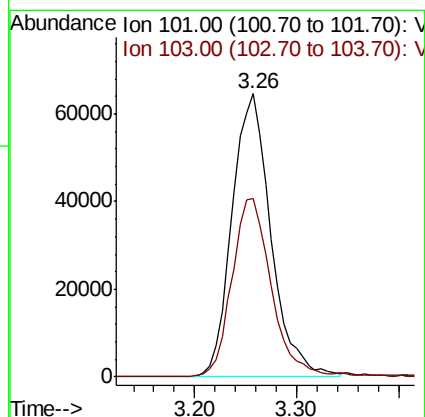
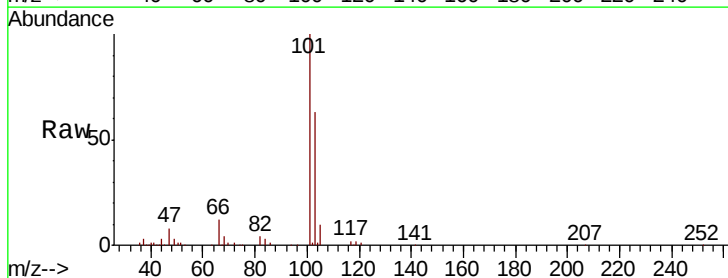
Acq: 10 Dec 2019 21:07

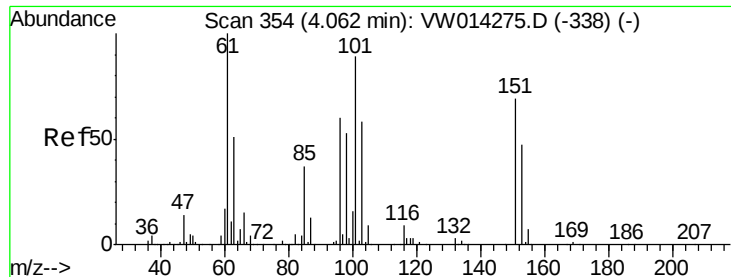
Tgt Ion: 101 Resp: 170708

Ion Ratio Lower Upper

101 100

103 63.5 45.4 84.2





#11

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

Concen: 23.188 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

ClientSampled :

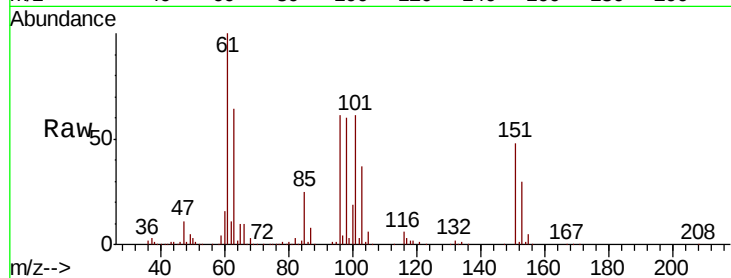
Tot Ion:101 Resp: 352766

Ion Ratio Lower Upper

101 100

85 42.3 31.4 47.2

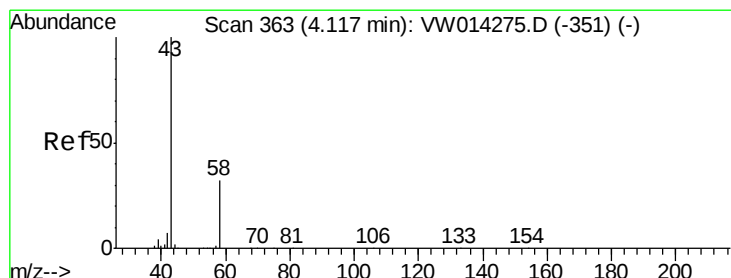
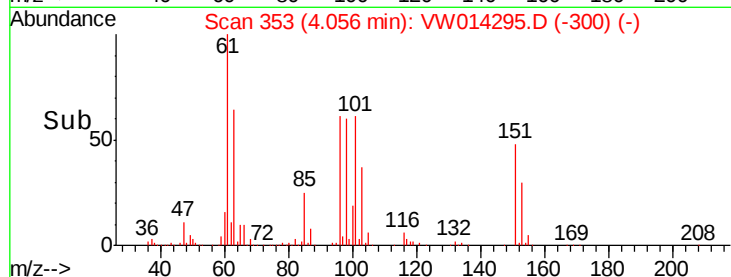
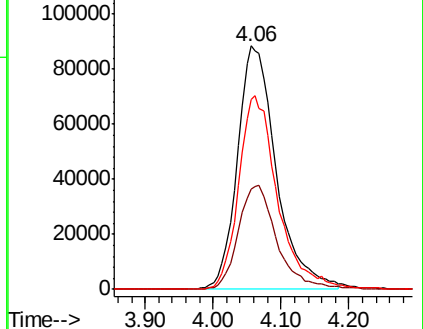
151 77.2 66.9 100.3



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



#13

Acetone

Concen: 36.567 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014295.D

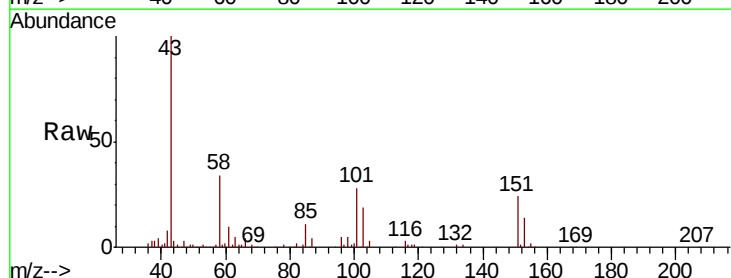
Acq: 10 Dec 2019 21:07

Tgt Ion: 43 Resp: 160464

Ion Ratio Lower Upper

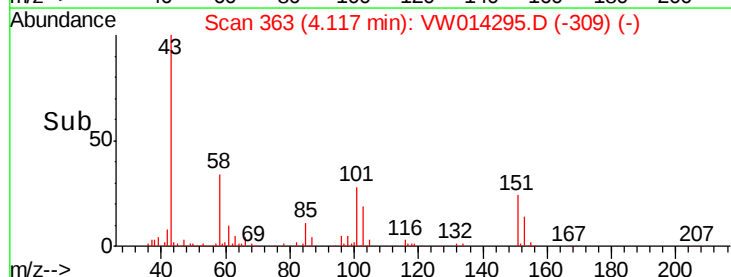
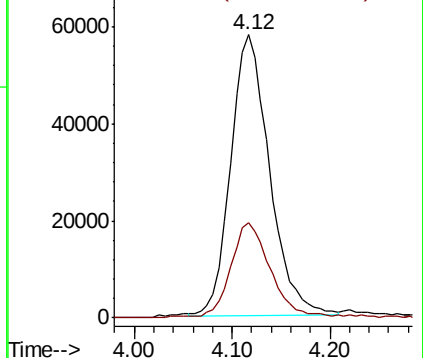
43 100

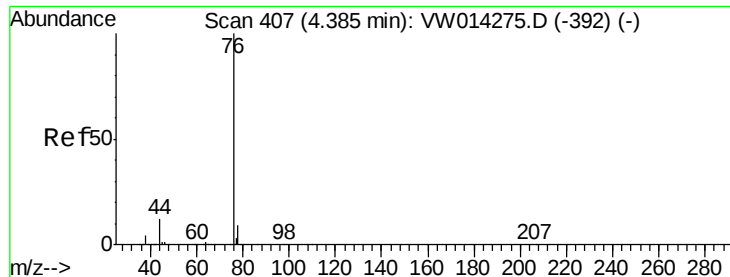
58 34.3 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 22.631 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

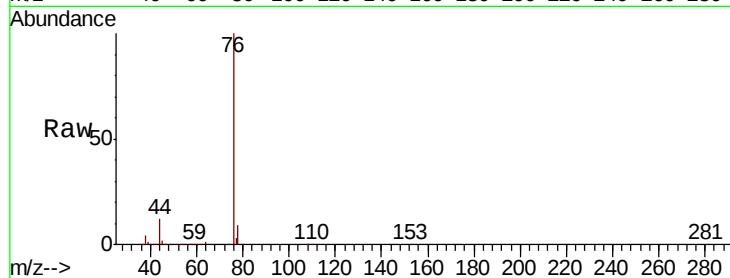
ClientSampled :

Tot Ion: 76 Resp: 1069058

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.38

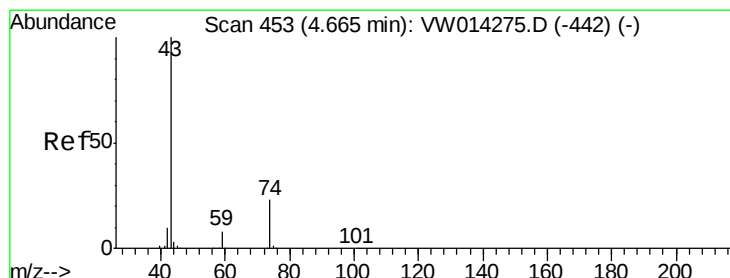
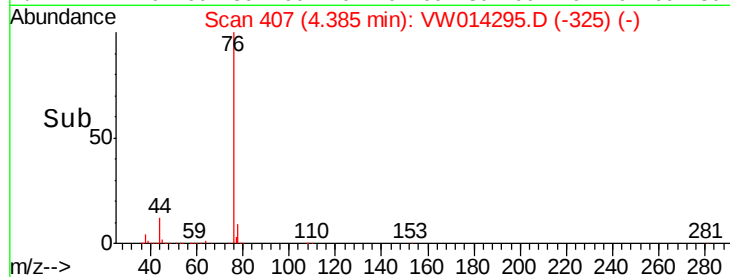
300000

200000

100000

0

Time-->



#15

Methyl Acetate

Concen: 22.336 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW014295.D

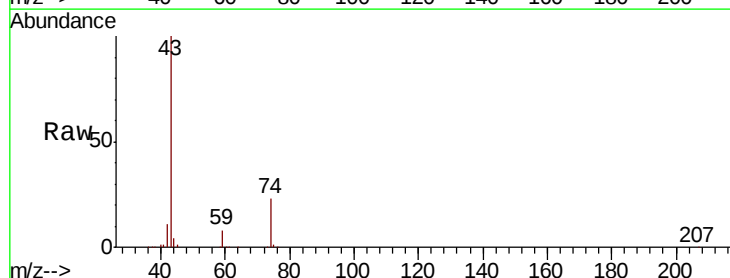
Acq: 10 Dec 2019 21:07

Tgt Ion: 43 Resp: 185399

Ion Ratio Lower Upper

43 100

74 22.9 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.67

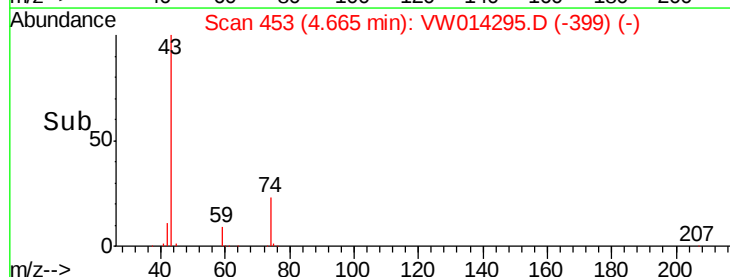
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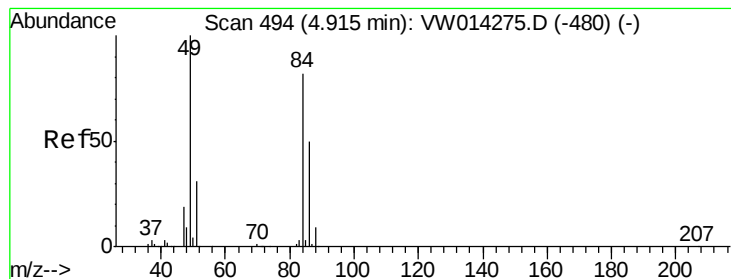
40000

20000

0

Time-->





#16

Methylene chloride

Concen: 23.095 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

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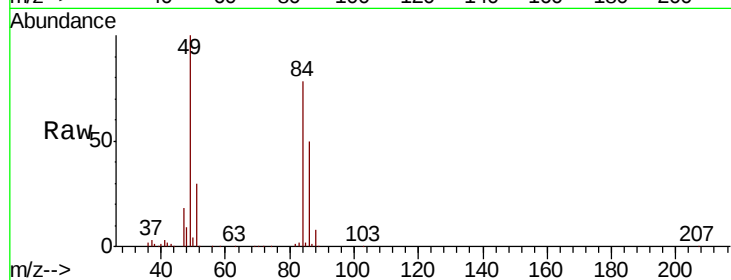
Tot Ion: 84 Resp: 408361

Ion Ratio Lower Upper

84 100

49 128.3 84.2 156.4

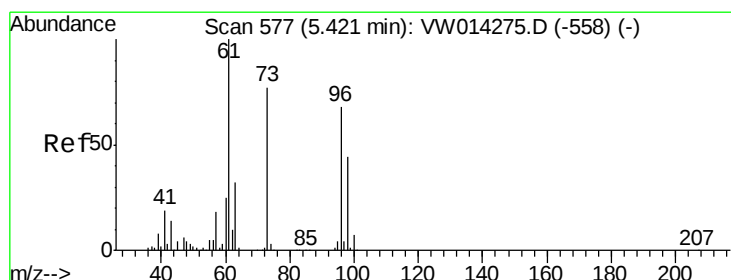
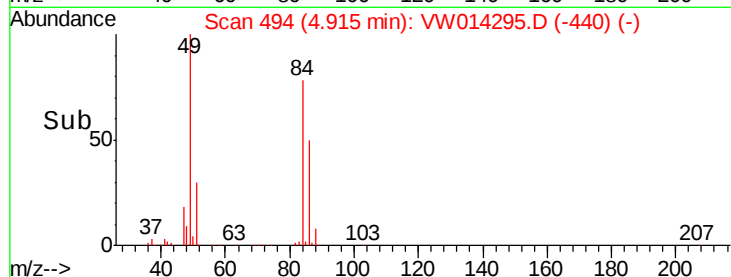
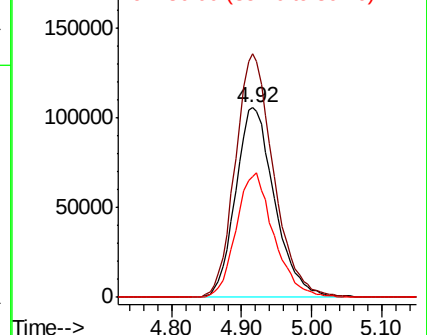
86 63.6 43.7 81.1



Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW



#17

Methyl tert-butyl Ether

Concen: 23.030 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

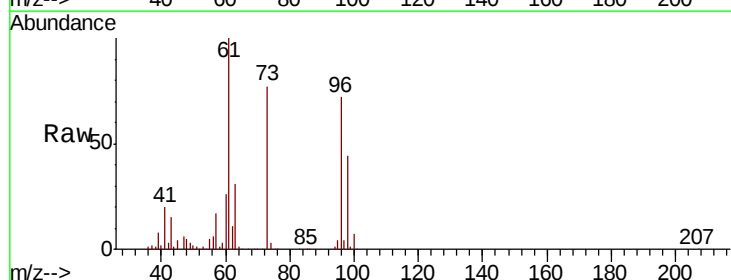
Tgt Ion: 73 Resp: 467783

Ion Ratio Lower Upper

73 100

43 19.5 15.5 23.3

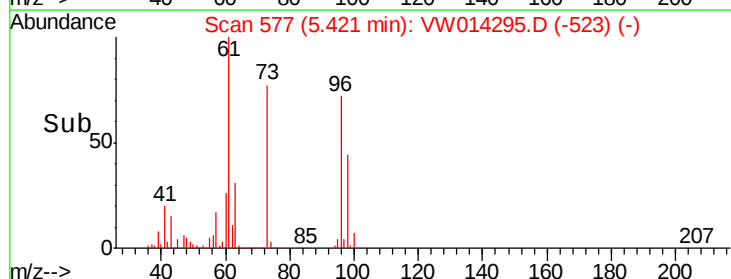
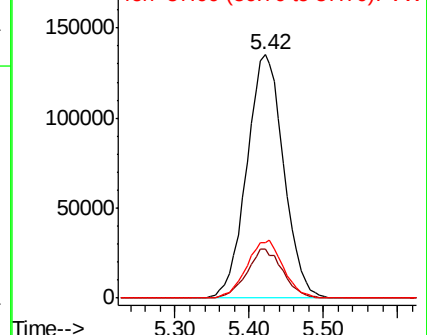
57 23.5 18.2 27.4

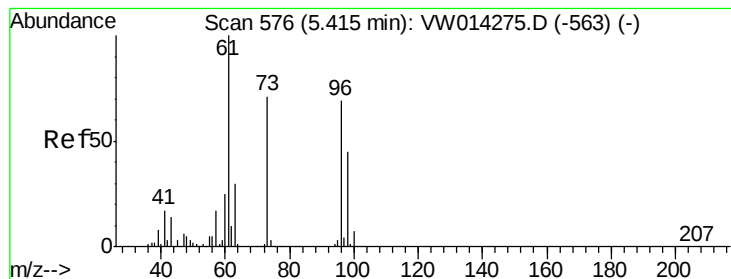


Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW





#18

trans-1,2-Dichloroethene

Concen: 22.719 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

ClientSampleId :

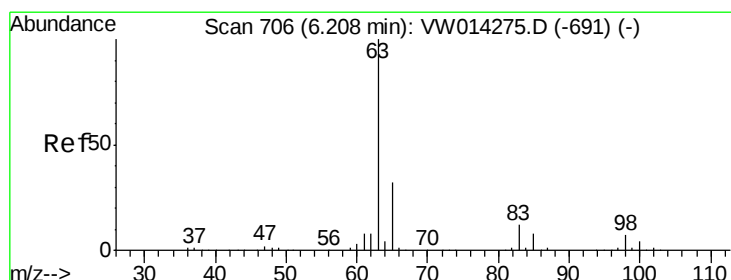
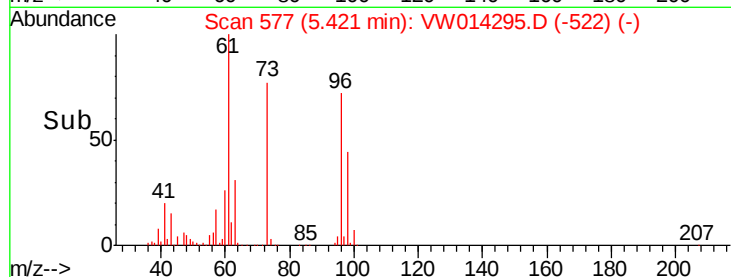
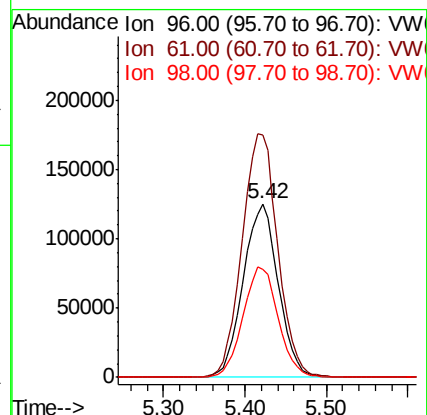
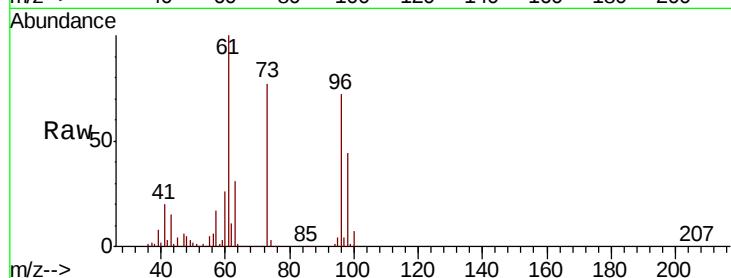
Tot Ion: 96 Resp: 374748

Ion Ratio Lower Upper

96 100

61 139.7 90.6 168.2

98 62.1 42.9 79.7



#19

1,1-Dichloroethane

Concen: 24.112 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

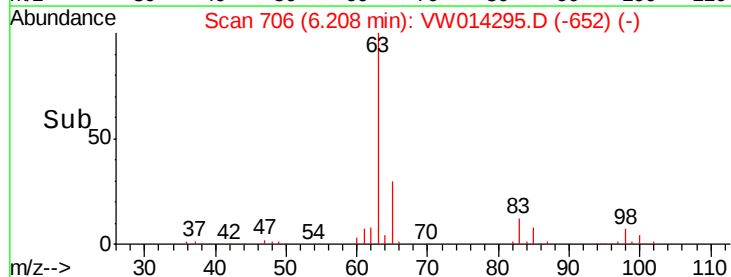
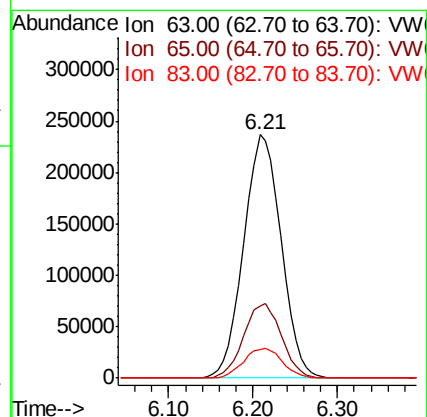
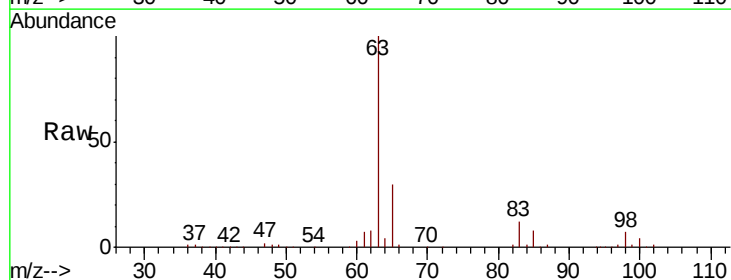
Tgt Ion: 63 Resp: 714563

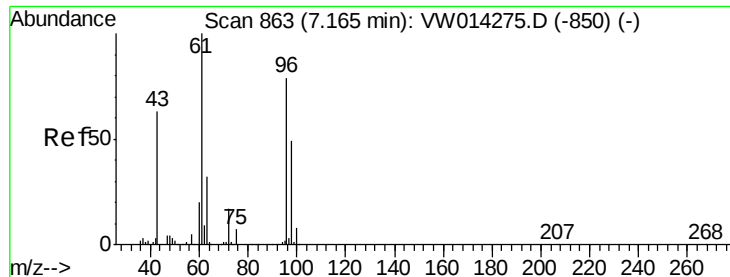
Ion Ratio Lower Upper

63 100

65 29.8 22.1 41.1

83 11.9 9.0 16.6





#21

2-Butanone

Concen: 41.858 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

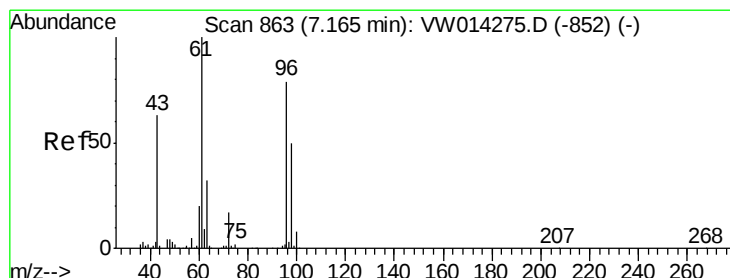
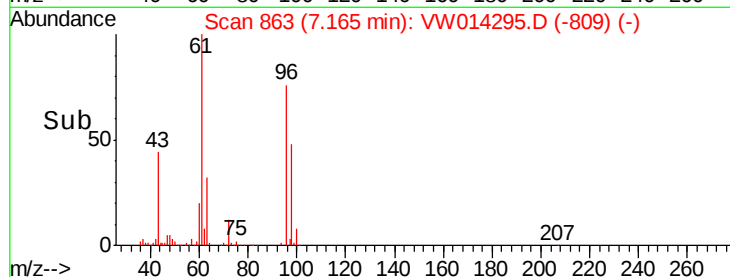
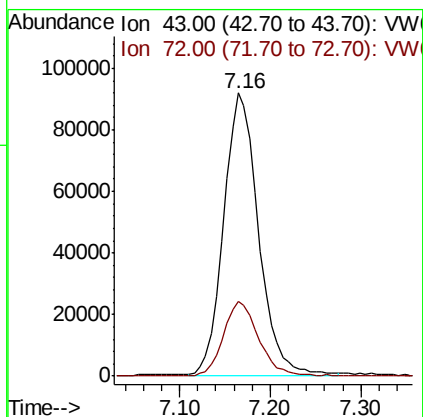
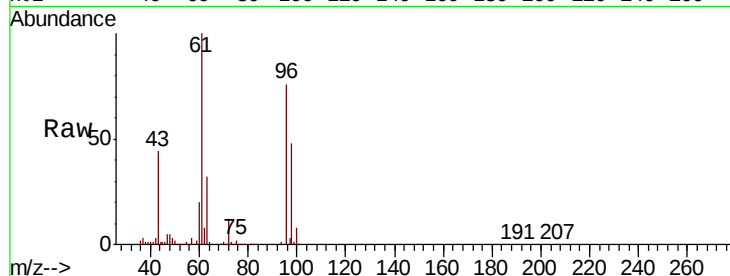
ClientSampled :

Tot Ion: 43 Resp: 246606

Ion Ratio Lower Upper

43 100

72 26.5 14.1 42.2



#22

cis-1,2-Dichloroethene

Concen: 23.345 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

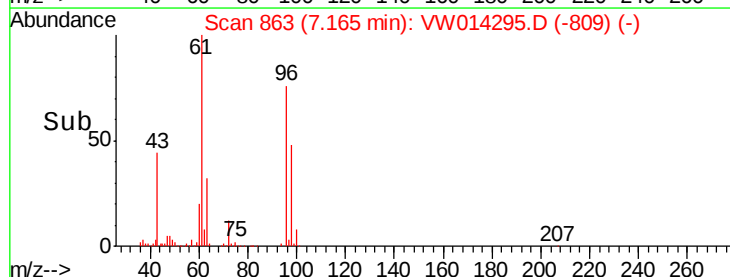
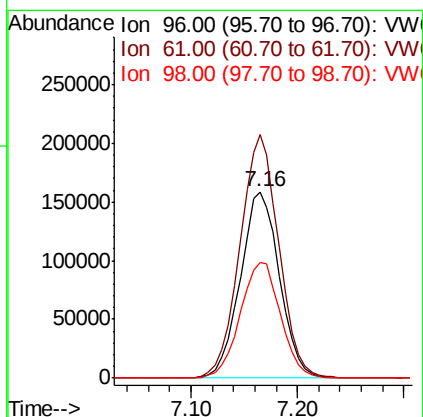
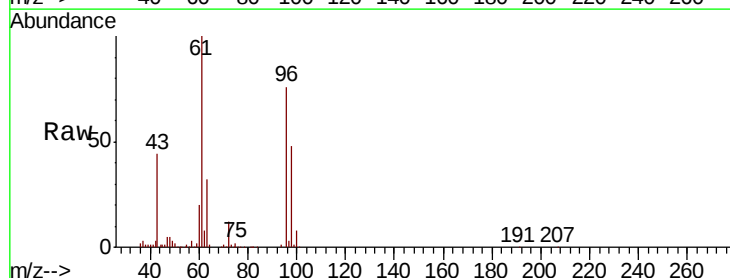
Tgt Ion: 96 Resp: 409742

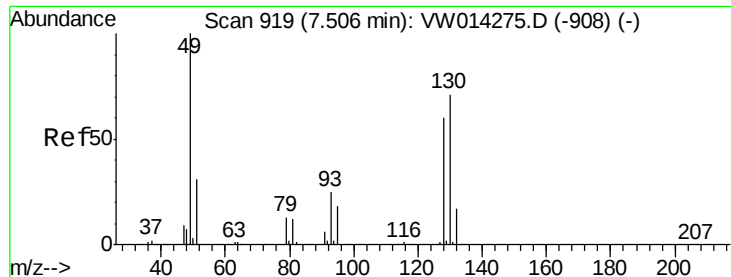
Ion Ratio Lower Upper

96 100

61 130.8 86.9 161.5

98 62.2 45.5 84.5





#23

Bromochloromethane

Concen: 22.885 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:128 Resp: 184763

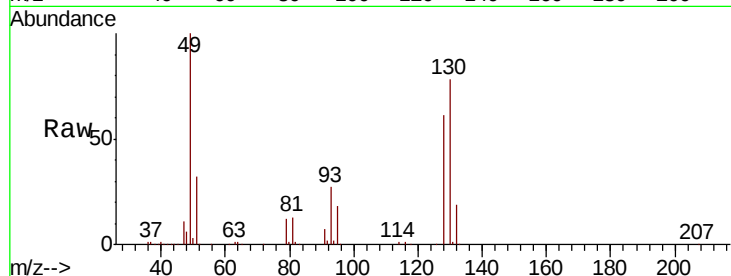
Ion Ratio Lower Upper

128 100

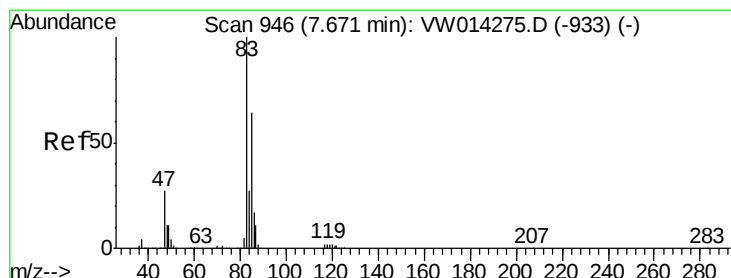
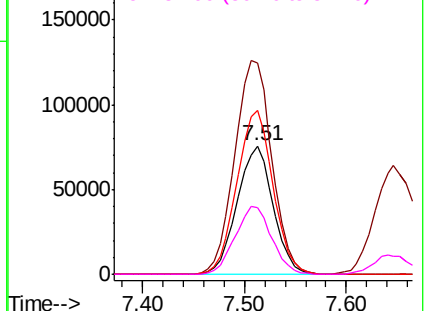
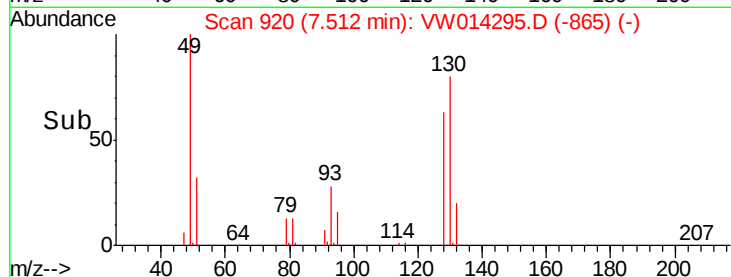
49 164.9 95.1 176.5

130 127.9 85.0 158.0

51 52.1 36.7 55.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV



#25

Chloroform

Concen: 24.174 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014295.D

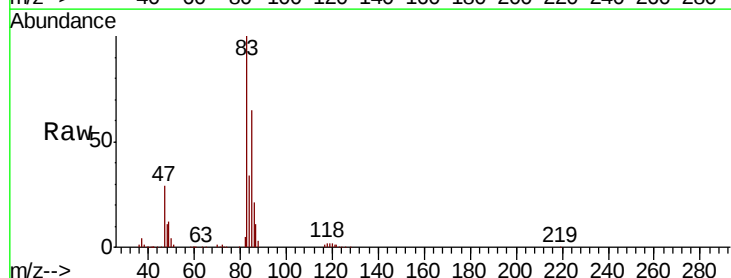
Acq: 10 Dec 2019 21:07

Tgt Ion: 83 Resp: 696153

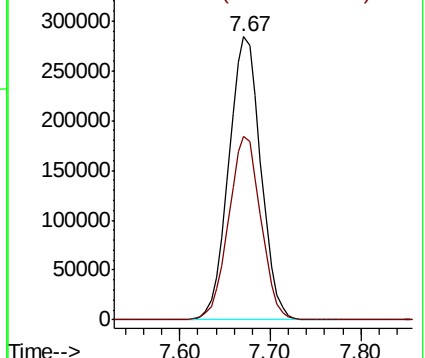
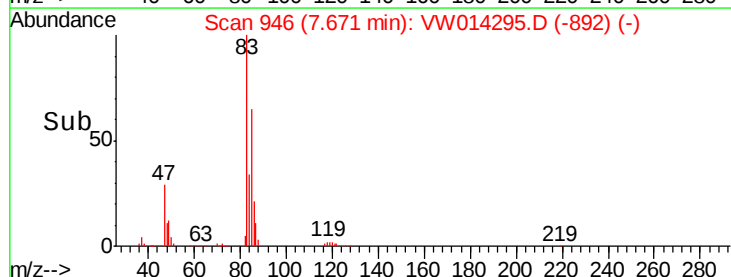
Ion Ratio Lower Upper

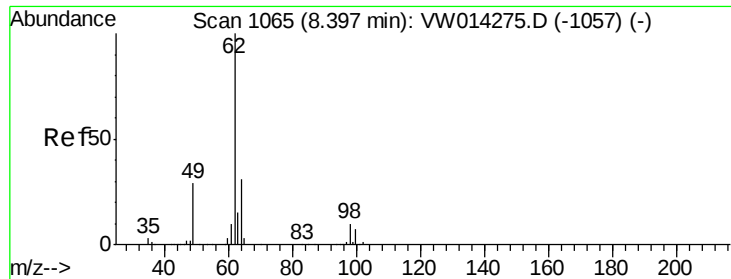
83 100

85 65.5 46.1 85.7



Abundance Ion 83.00 (82.70 to 83.70): VV
Ion 85.00 (84.70 to 85.70): VV

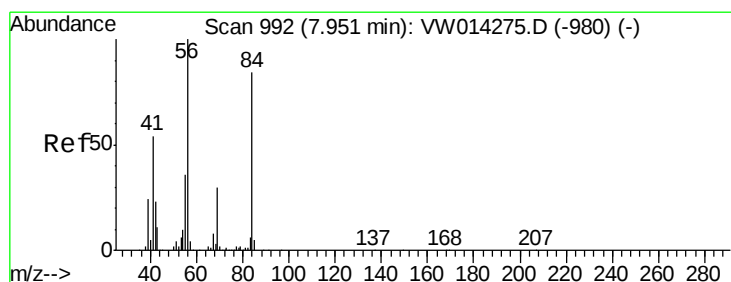
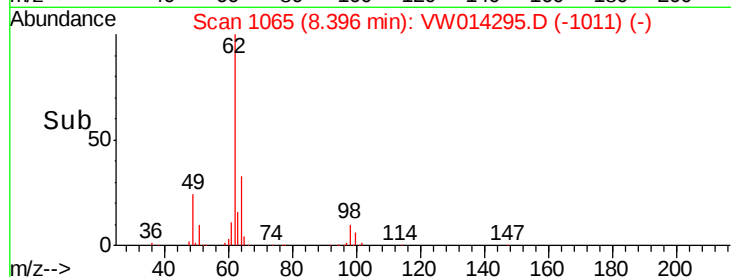
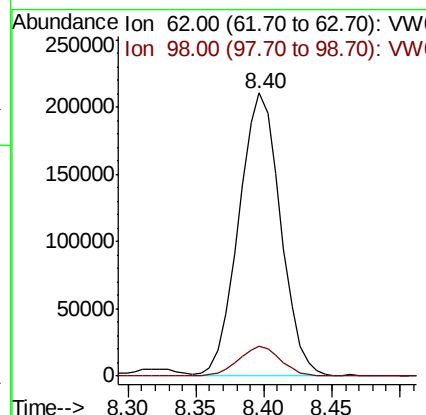
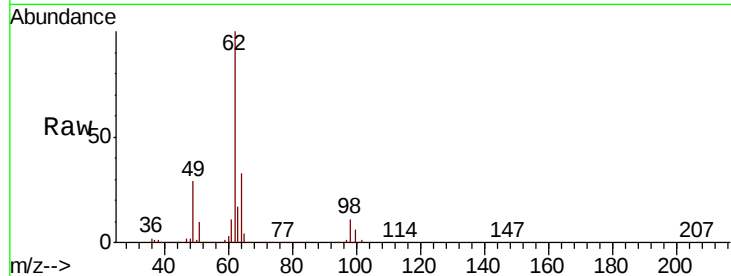




#27
 1,2-Dichloroethane
 Concen: 24.028 ug/L
 RT: 8.40 min Scan# 1065
 Delta R.T. -0.00 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

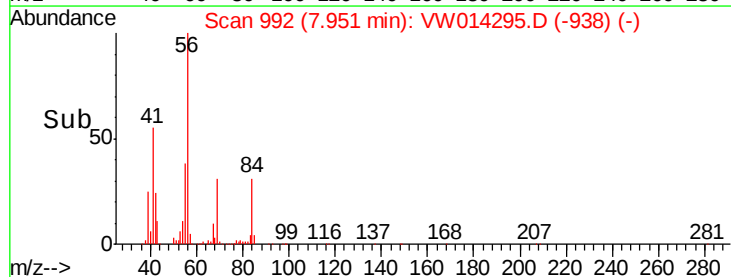
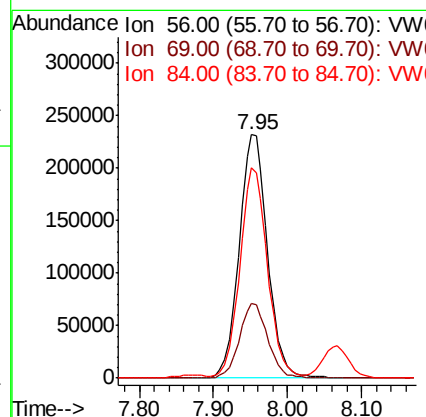
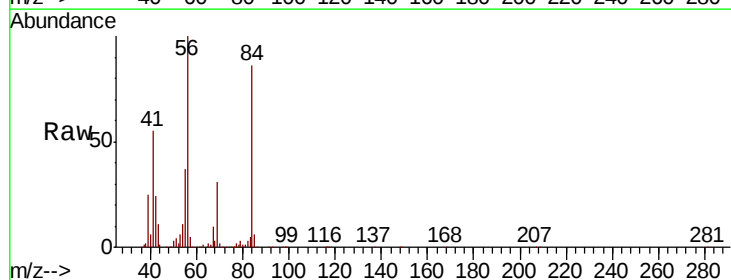
Instrument :
 MSVOA_W
 ClientSampleId :

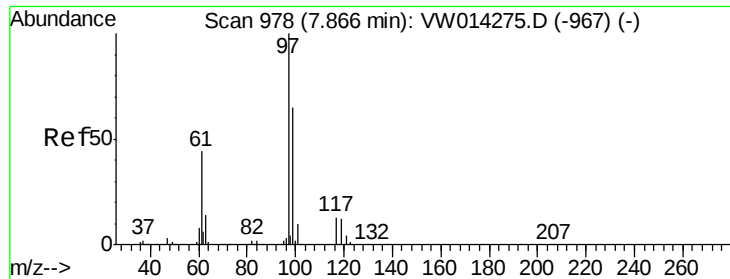
Tot Ion: 62 Resp: 453101
 Ion Ratio Lower Upper
 62 100
 98 10.5 9.3 13.9



#30
 Cyclohexane
 Concen: 23.339 ug/L
 RT: 7.95 min Scan# 992
 Delta R.T. -0.00 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

Tgt Ion: 56 Resp: 617568
 Ion Ratio Lower Upper
 56 100
 69 30.5 24.6 37.0
 84 84.4 70.2 105.2





#31

1,1,1-Trichloroethane

Concen: 23.853 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

ClientSampled :

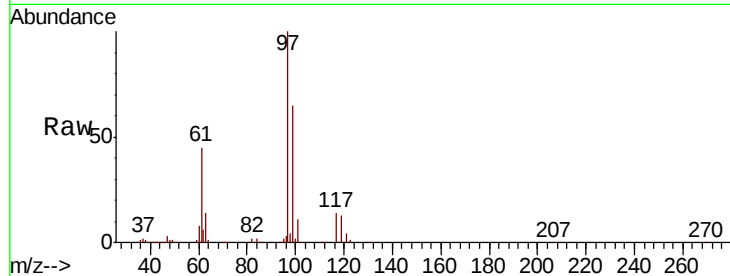
Tot Ion: 97 Resp: 507837

Ion Ratio Lower Upper

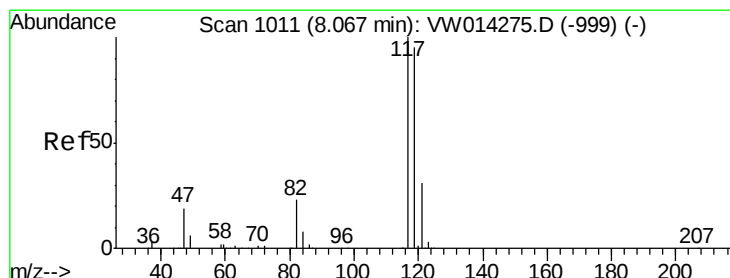
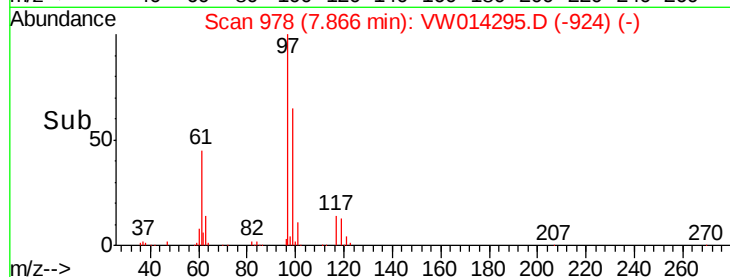
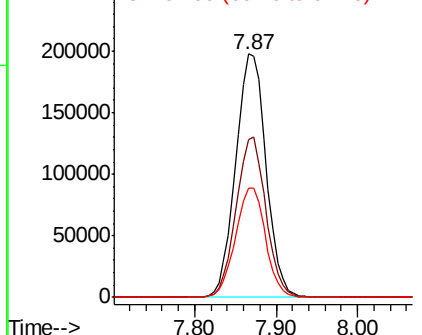
97 100

99 64.4 51.1 76.7

61 44.5 32.8 49.2



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: 23.203 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW014295.D

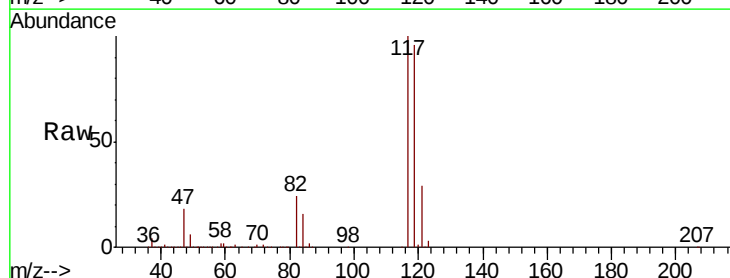
Acq: 10 Dec 2019 21:07

Tgt Ion: 117 Resp: 468722

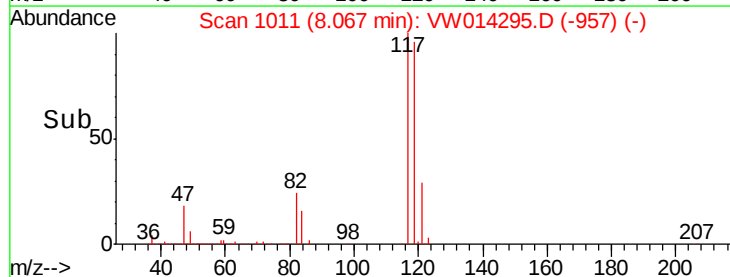
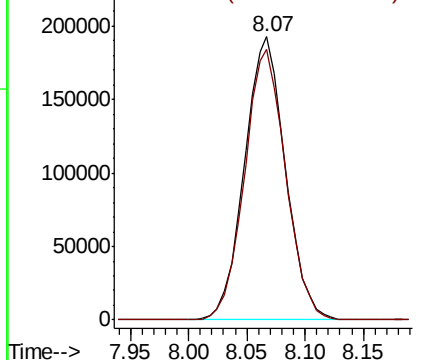
Ion Ratio Lower Upper

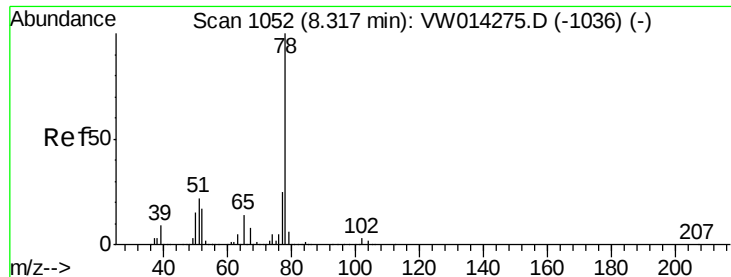
117 100

119 96.2 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

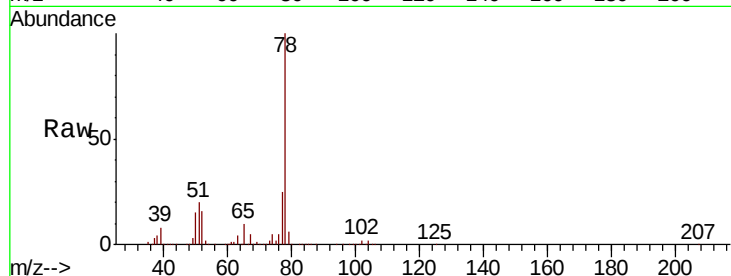




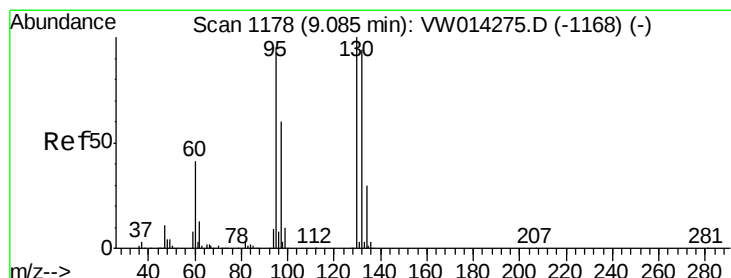
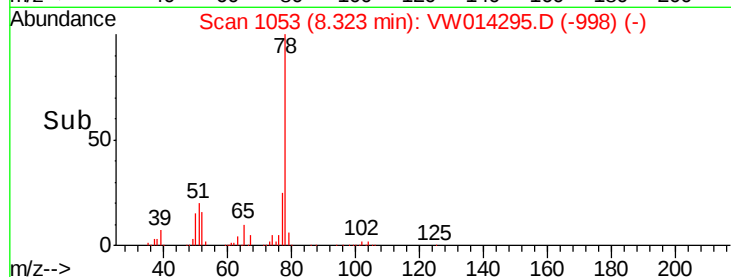
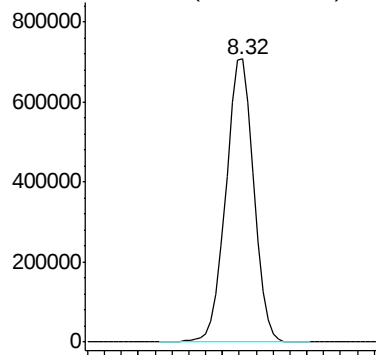
#34
Benzene
Concen: 23.923 ug/L
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW014295.D
Acq: 10 Dec 2019 21:07

Instrument :
MSVOA_W
ClientSampled :

Tgt Ion: 78 Resp: 1605830

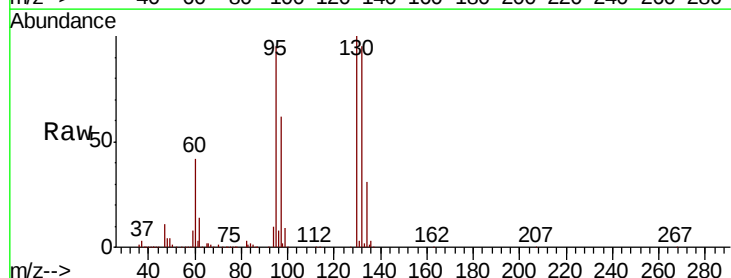


Abundance Ion 78.00 (77.70 to 78.70): VW



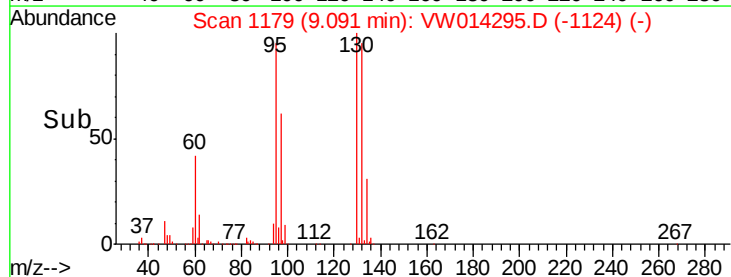
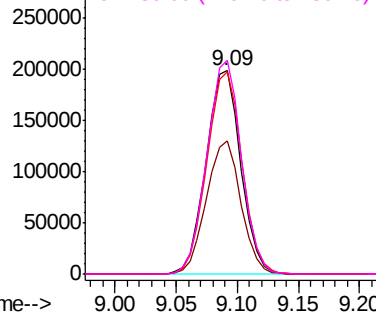
#35
Trichloroethene
Concen: 22.782 ug/L
RT: 9.09 min Scan# 1179
Delta R.T. 0.01 min
Lab File: VW014295.D
Acq: 10 Dec 2019 21:07

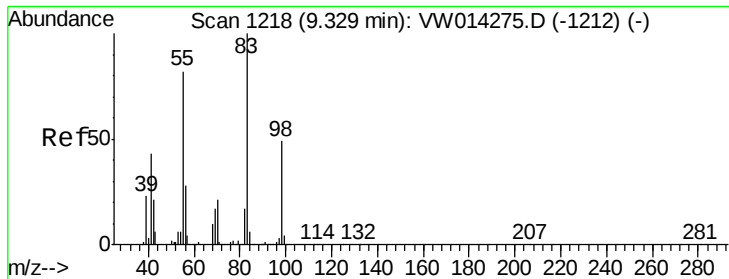
Tgt Ion: 95 Resp: 391266
Ion Ratio Lower Upper
95 100
97 65.1 45.1 83.9
132 100.5 73.7 136.9
130 104.3 76.6 142.2



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

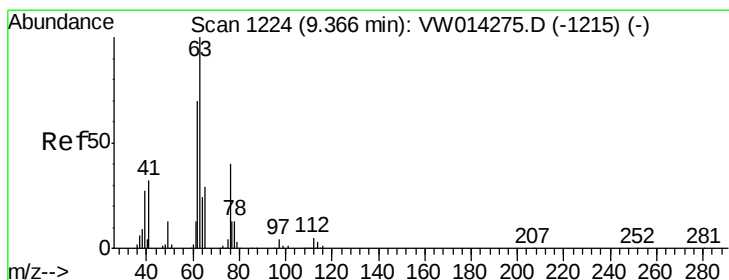
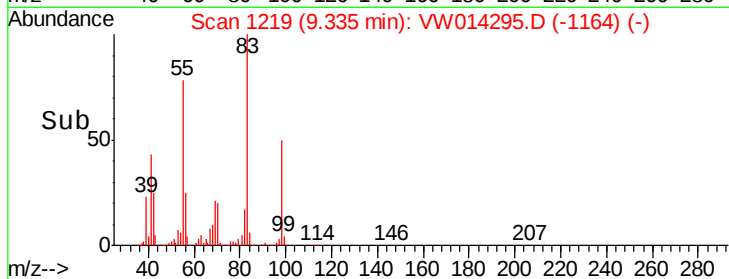
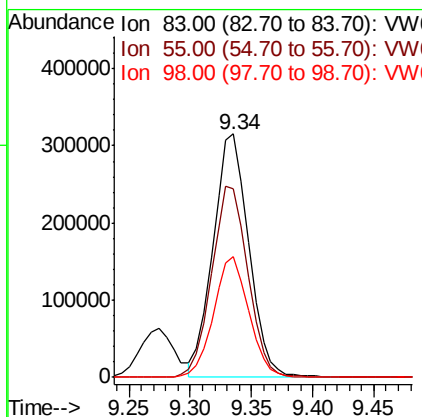
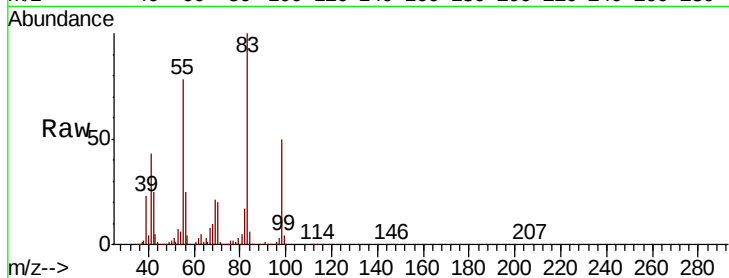




#36
Methvlcvclohexane
Concen: 22.195 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VW014295.D
Acq: 10 Dec 2019 21:07

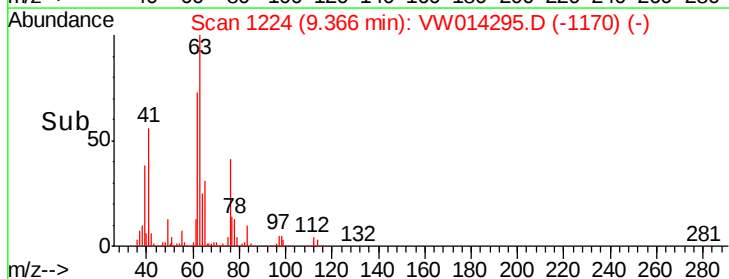
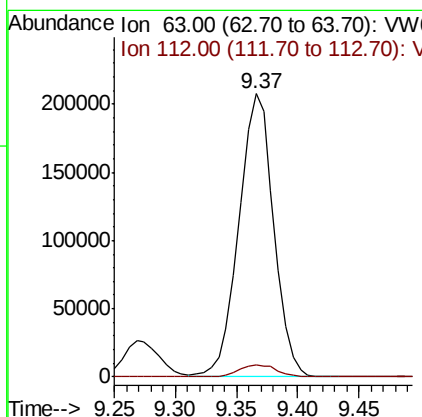
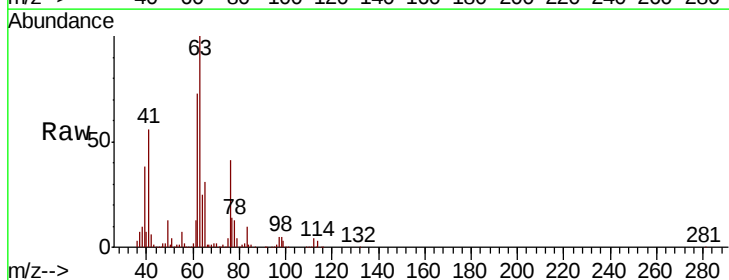
Instrument :
MSVOA_W
ClientSampleId :

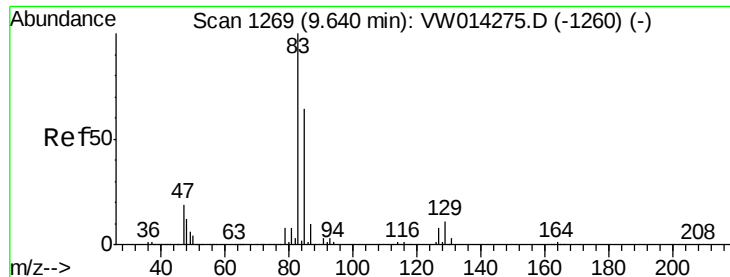
Tot Ion: 83 Resp: 640562
Ion Ratio Lower Upper
83 100
55 80.0 59.8 89.8
98 49.0 39.5 59.3



#40
1,2-Dichloropropane
Concen: 23.775 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW014295.D
Acq: 10 Dec 2019 21:07

Tgt Ion: 63 Resp: 409995
Ion Ratio Lower Upper
63 100
112 4.6 3.9 5.9

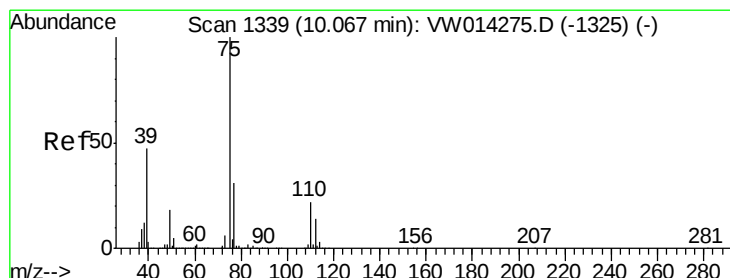
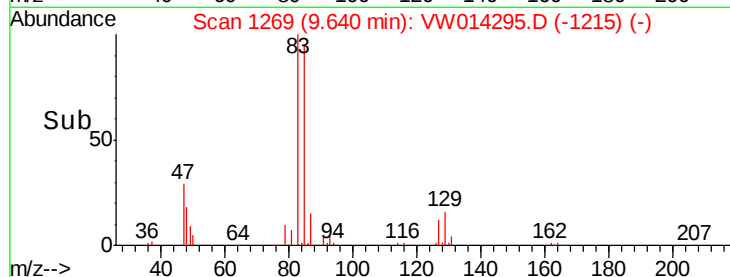
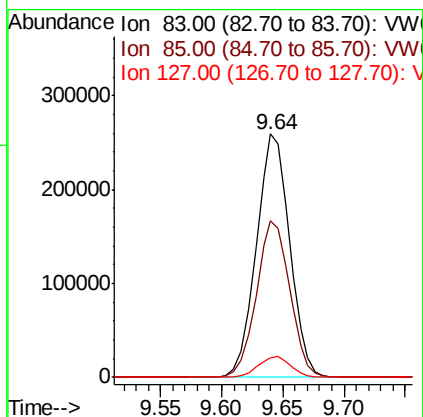
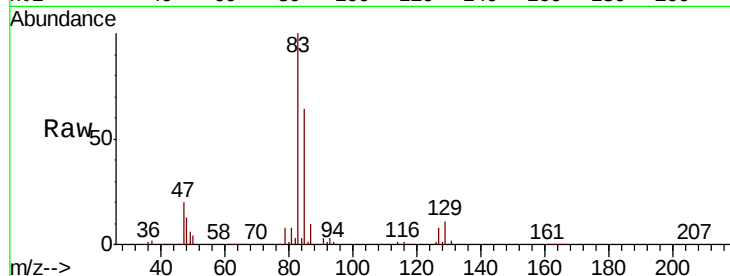




#41
 Bromodichloromethane
 Concen: 23.475 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

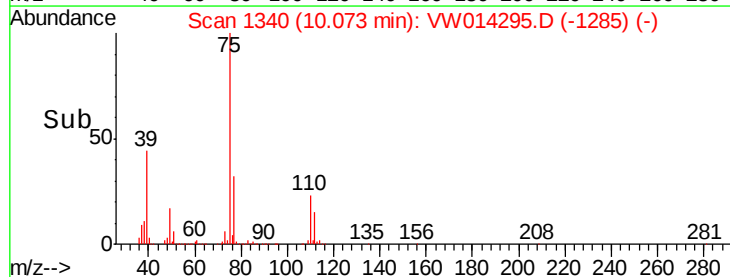
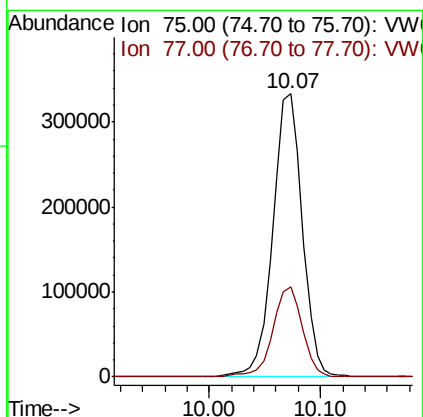
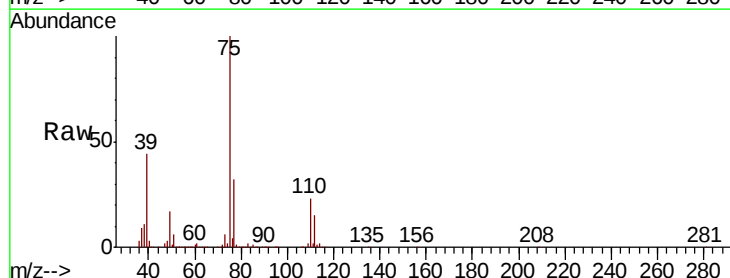
Instrument :
 MSVOA_W
 ClientSampleId :

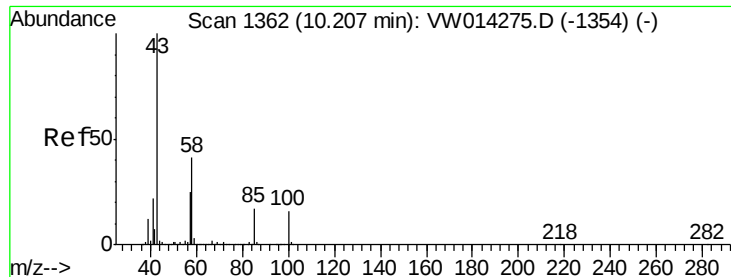
Tot Ion	83	Resp	491975
Ion Ratio	100		
85	64.4	45.1	83.7
127	8.2	7.4	11.0



#42
 cis-1,3-Dichloropropene
 Concen: 23.693 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.01 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

Tgt Ion	75	Resp	611873
Ion Ratio	100		
77	31.8	22.1	41.1

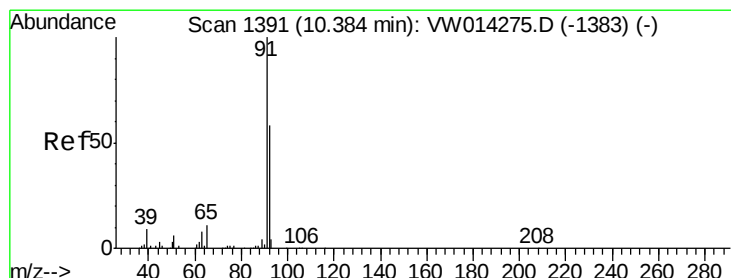
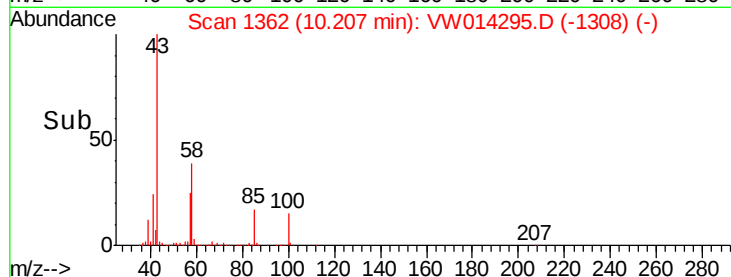
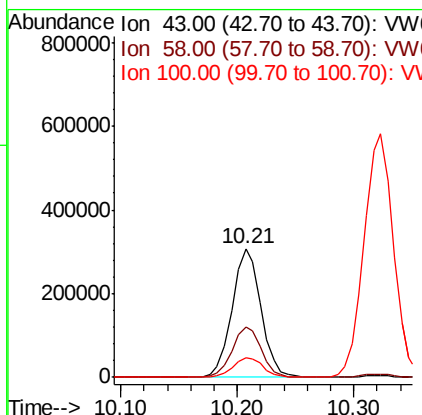
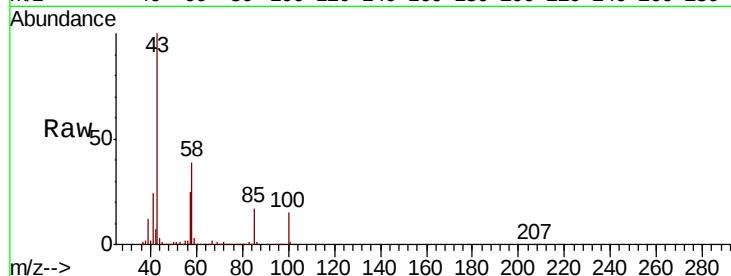




#43
4-Methyl-2-pentanone
Concen: 46.526 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VW014295.D
Acq: 10 Dec 2019 21:07

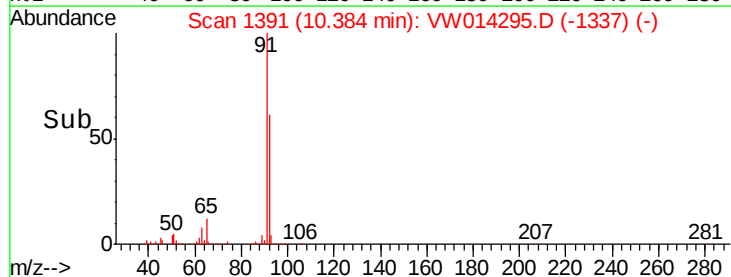
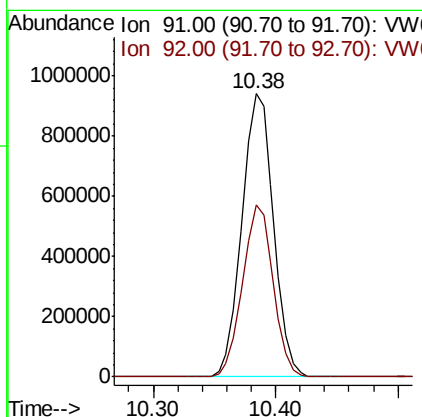
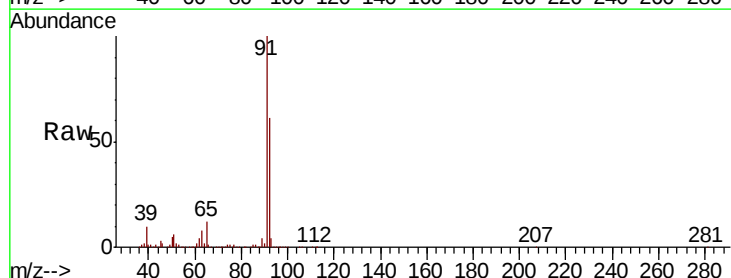
Instrument :
MSVOA_W
ClientSampleId :

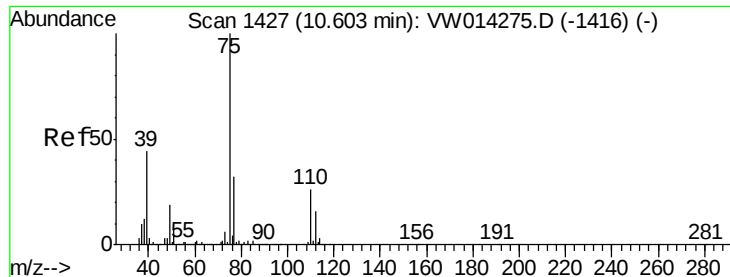
Tot Ion: 43 Resp: 529072
Ion Ratio Lower Upper
43 100
58 39.8 32.6 49.0
100 15.5 13.8 20.8



#44
Toluene
Concen: 23.915 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW014295.D
Acq: 10 Dec 2019 21:07

Tgt Ion: 91 Resp: 1682981
Ion Ratio Lower Upper
91 100
92 60.8 40.7 75.7





#45

trans-1,3-Dichloropropene

Concen: 23.661 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

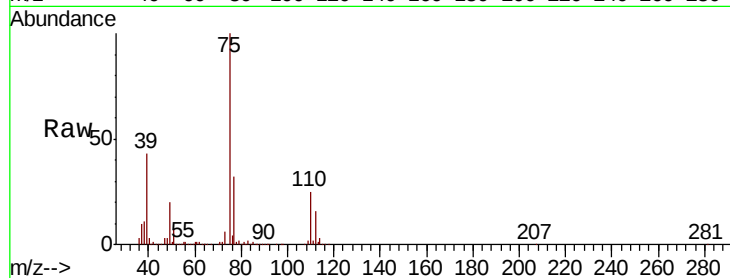
ClientSampleId :

Tot Ion: 75 Resp: 494624

Ion Ratio Lower Upper

75 100

77 31.9 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.60

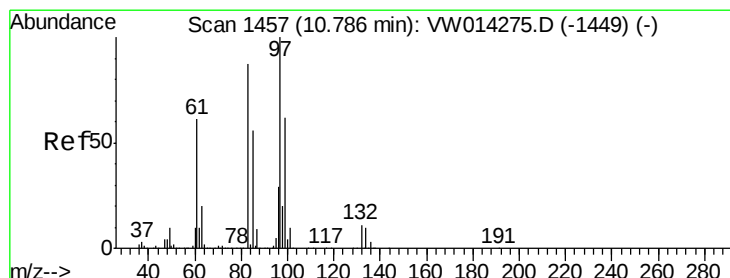
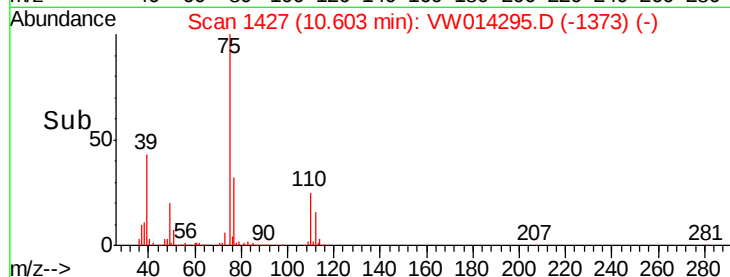
300000

200000

100000

0

Time-->



#46

1,1,2-Trichloroethane

Concen: 22.876 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Tgt Ion: 97 Resp: 295619

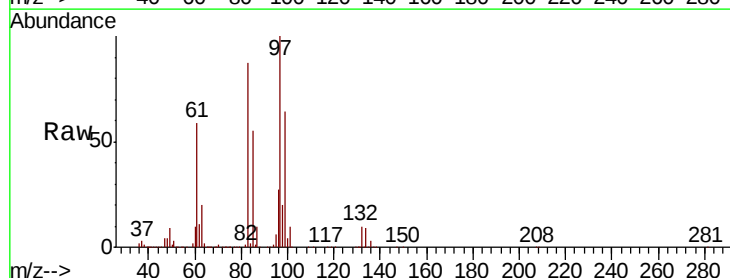
Ion Ratio Lower Upper

97 100

83 86.6 58.9 109.5

85 54.6 38.1 70.9

99 63.9 46.5 86.3



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW

250000

200000

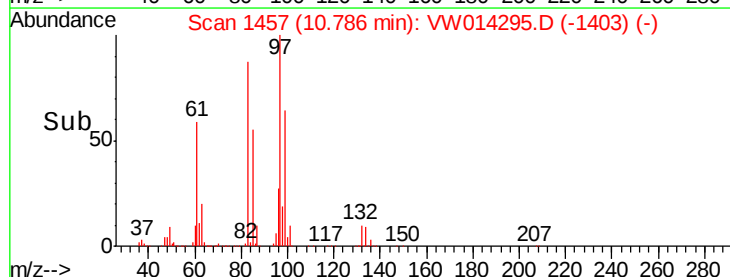
150000

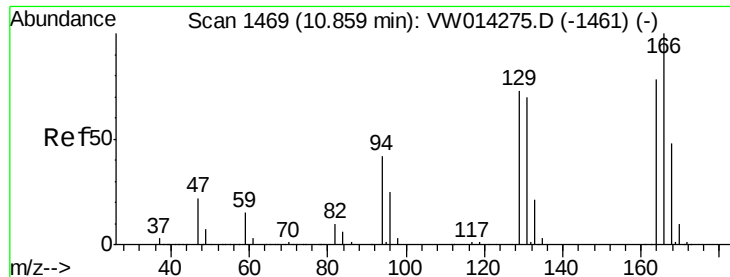
100000

50000

0

Time-->





#47

Tetrachloroethene

Concen: 22.070 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:164 Resp: 315925

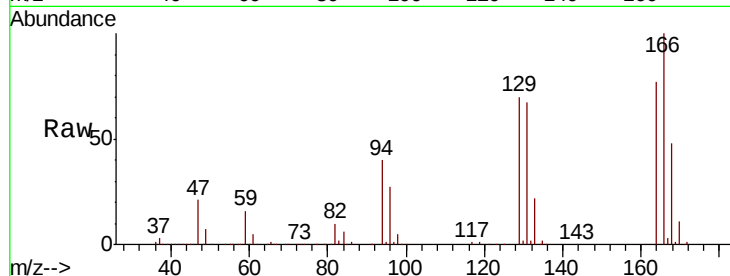
Ion Ratio Lower Upper

164 100

129 91.1 60.6 112.6

131 87.7 59.1 109.7

166 130.0 90.8 168.6

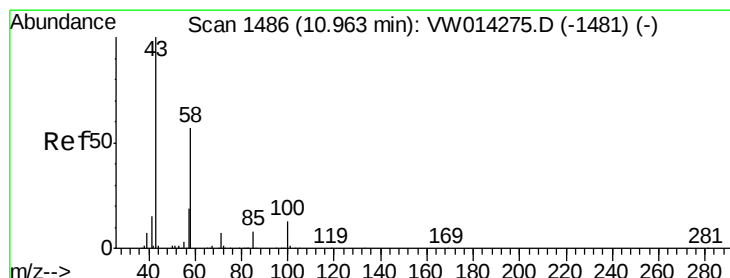
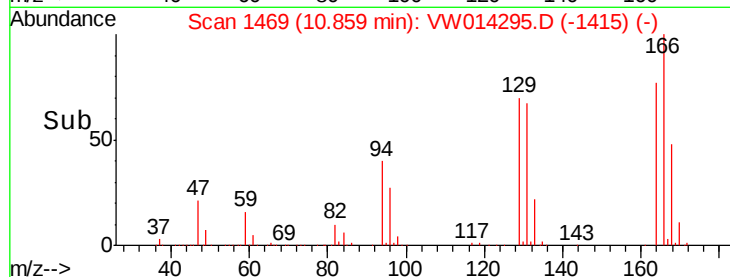
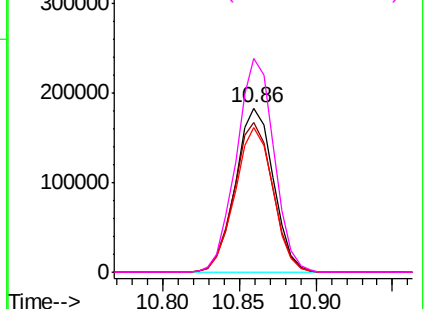


Abundance Ion 164.00 (163.70 to 164.70): V

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: 44.814 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Tgt Ion: 43 Resp: 362807

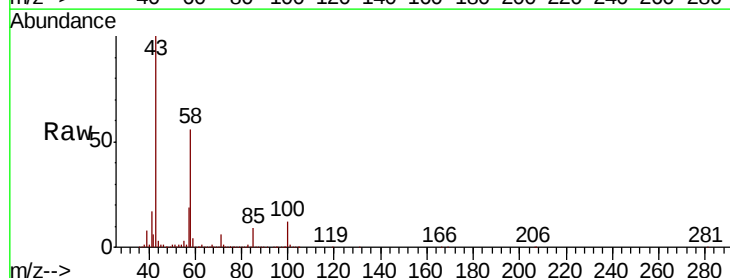
Ion Ratio Lower Upper

43 100

58 55.2 44.4 66.6

57 19.3 16.5 24.7

100 12.6 11.1 16.7

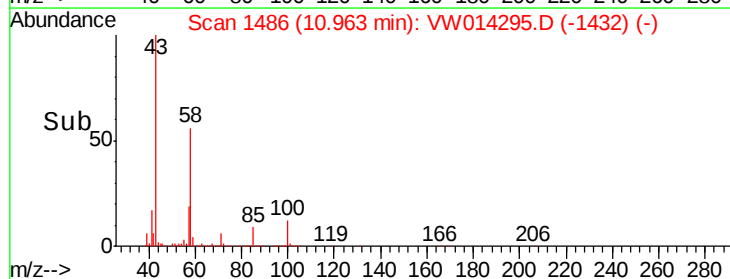
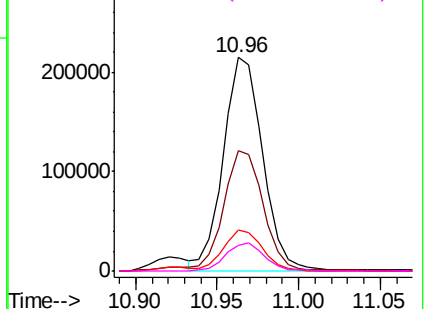


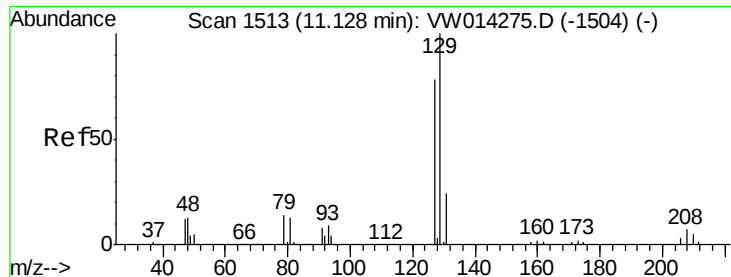
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 23.119 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

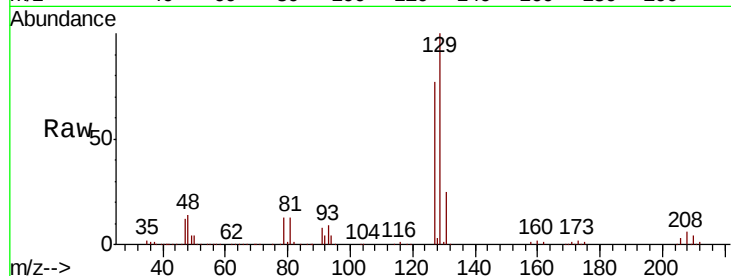
ClientSampleId :

Tot Ion:129 Resp: 335297

Ion Ratio Lower Upper

129 100

127 77.4 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13

200000

150000

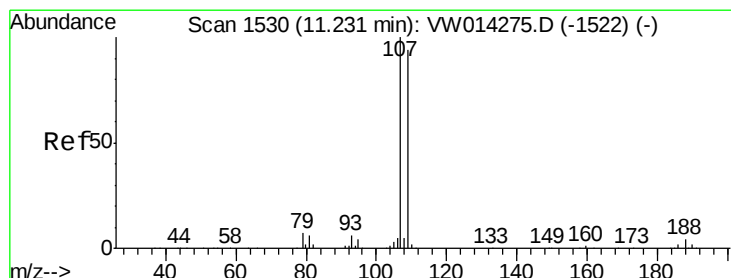
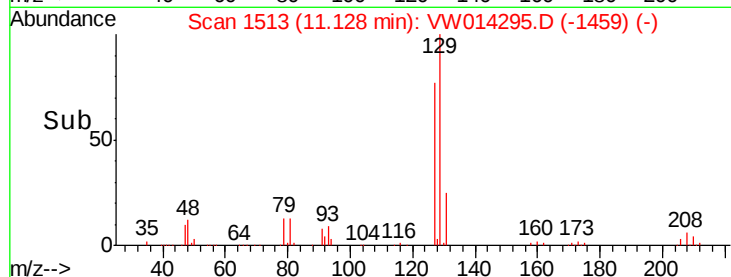
100000

50000

0

Time-->

11.10 11.20



#51

1,2-Dibromoethane

Concen: 22.332 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

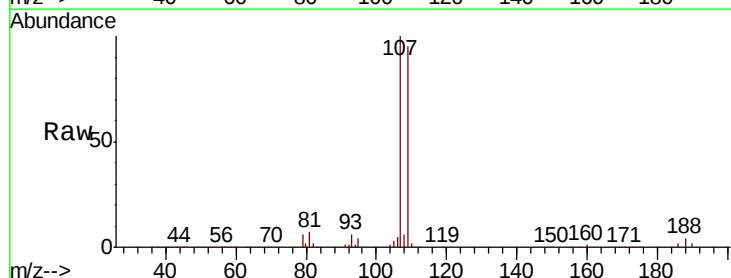
Tgt Ion:107 Resp: 273353

Ion Ratio Lower Upper

107 100

109 95.2 64.6 120.0

188 3.8 3.9 5.9#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

11.23

200000

150000

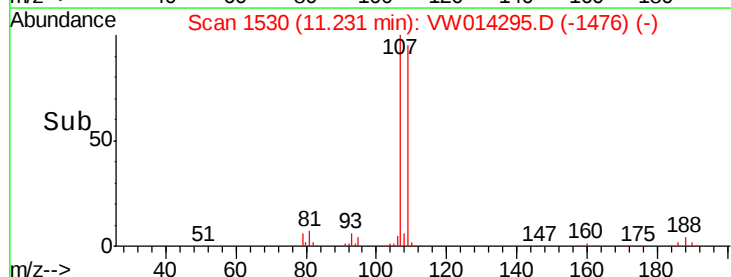
100000

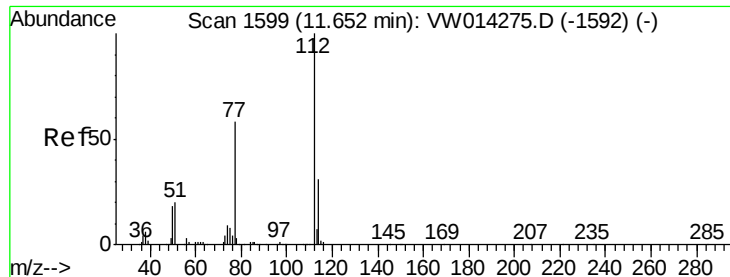
50000

0

Time-->

11.20 11.30





#52

Chlorobenzene

Concen: 23.206 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

ClientSampleId :

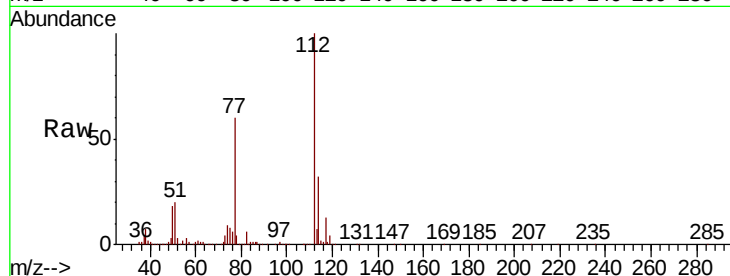
Tot Ion:112 Resp: 1055444

Ion Ratio Lower Upper

112 100

77 59.9 42.2 63.4

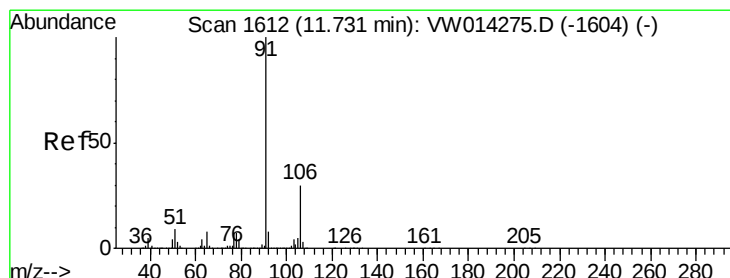
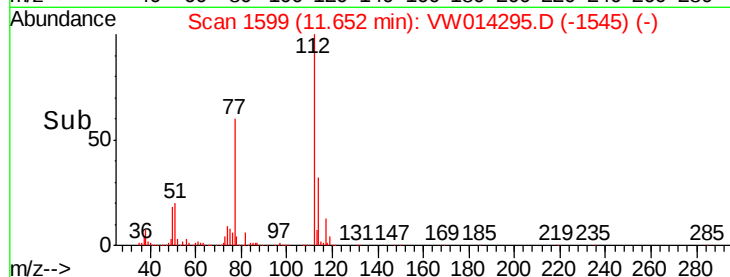
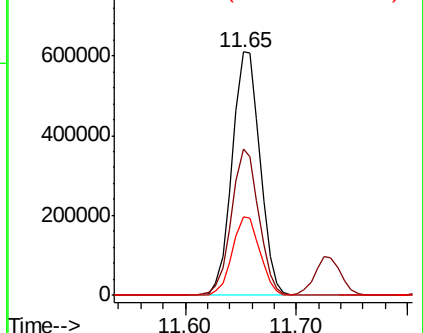
114 32.4 22.5 41.9



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: 23.866 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW014295.D

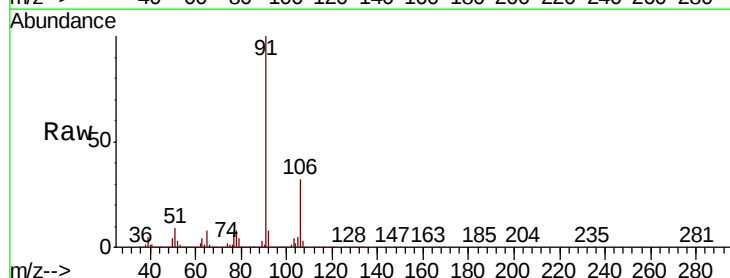
Acq: 10 Dec 2019 21:07

Tgt Ion: 91 Resp: 1822387

Ion Ratio Lower Upper

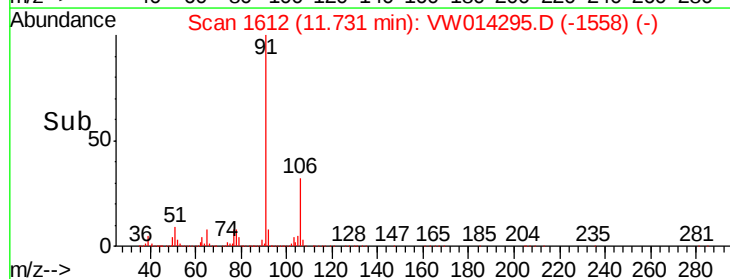
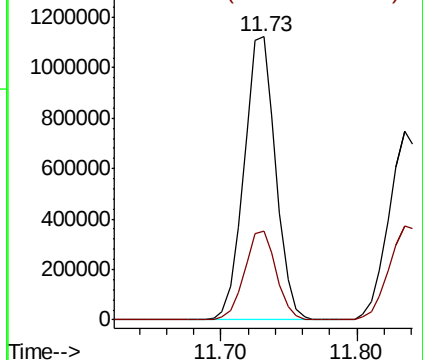
91 100

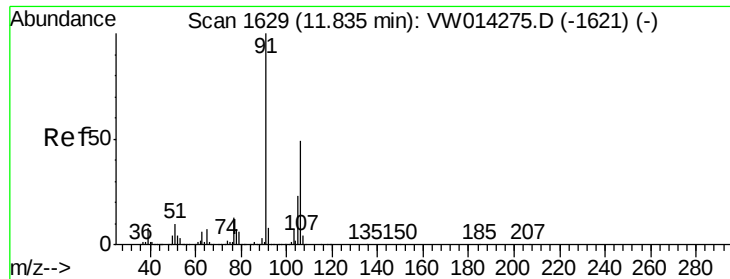
106 31.5 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 23.718 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

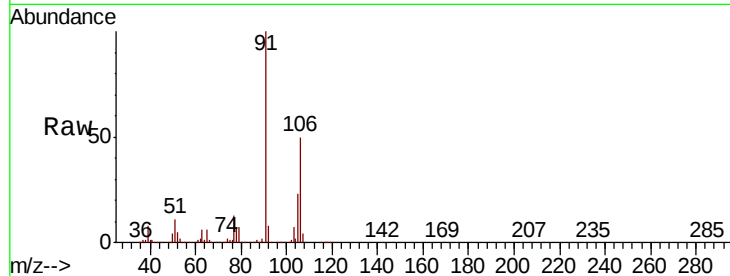
ClientSampleId :

Tot Ion:106 Resp: 696686

Ion Ratio Lower Upper

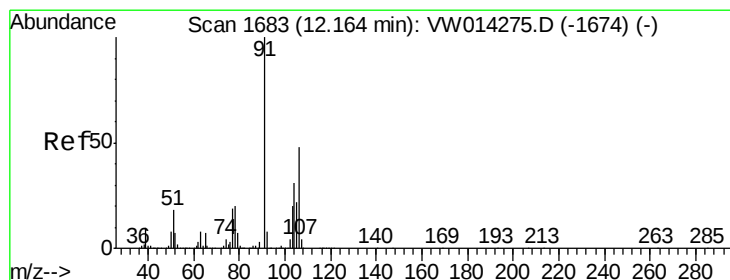
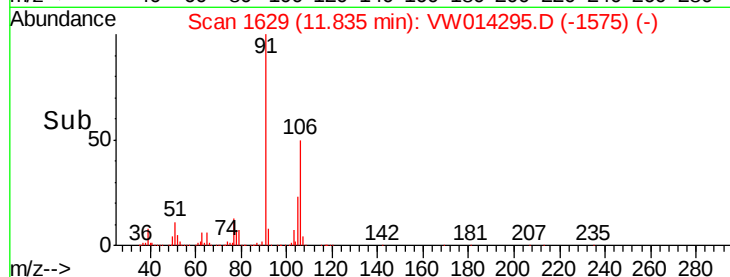
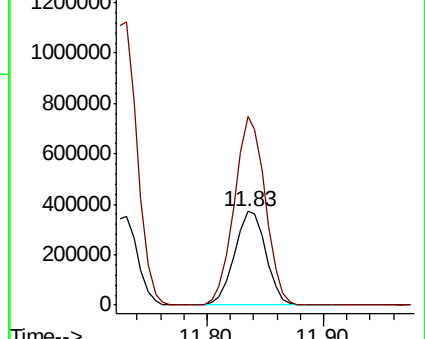
106 100

91 201.6 138.7 257.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 23.934 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014295.D

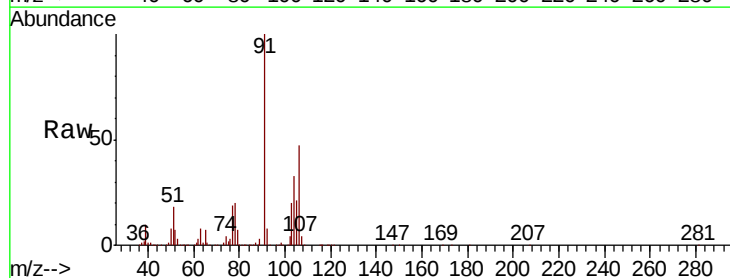
Acq: 10 Dec 2019 21:07

Tgt Ion:106 Resp: 666839

Ion Ratio Lower Upper

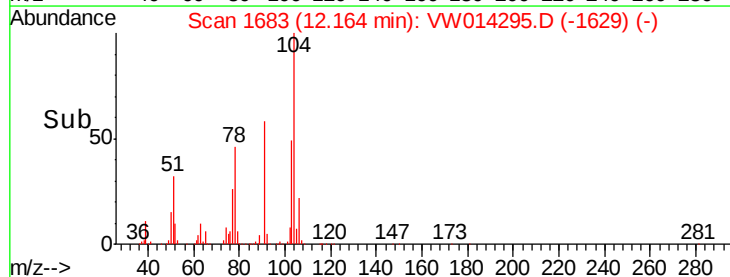
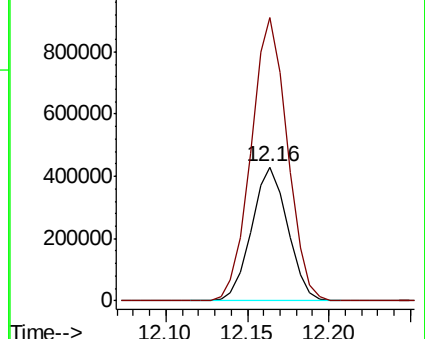
106 100

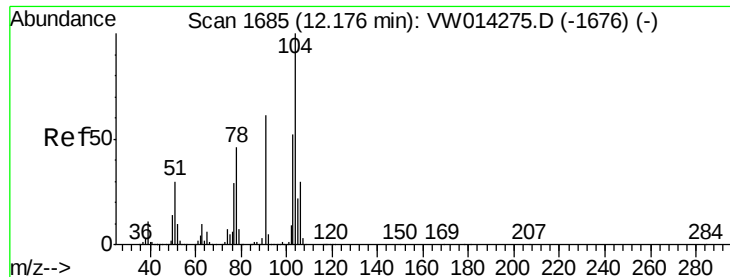
91 211.0 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 24.477 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

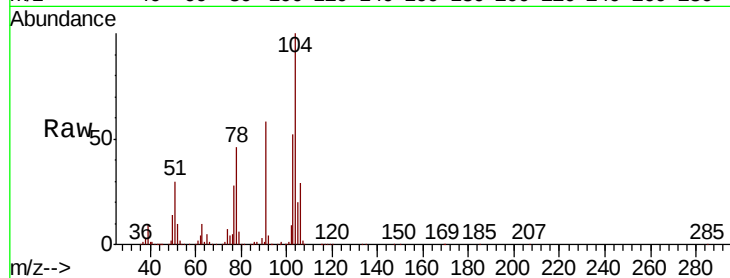
ClientSampleId :

Tot Ion:104 Resp: 1166681

Ion Ratio Lower Upper

104 100

78 45.5 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

12.18

800000

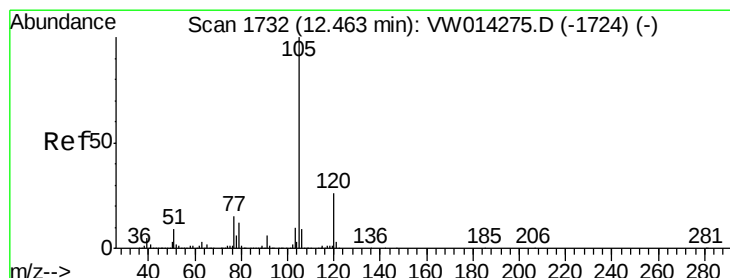
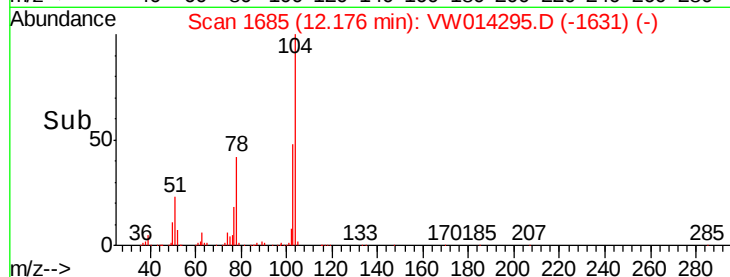
600000

400000

200000

0

Time-->



#57

Isopropylbenzene

Concen: 23.954 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

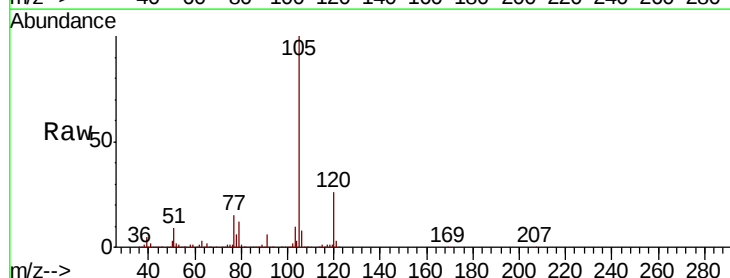
Tgt Ion:105 Resp: 1732636

Ion Ratio Lower Upper

105 100

120 26.4 21.6 32.4

77 15.3 11.6 17.4



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): VW

12.46

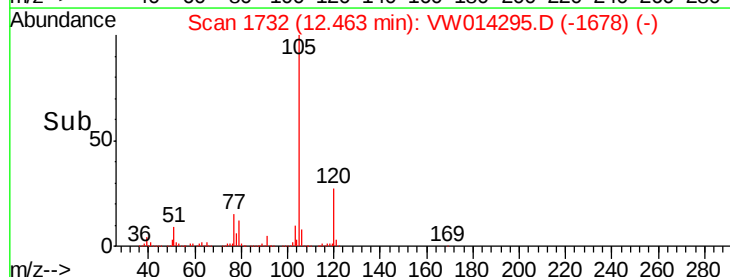
1500000

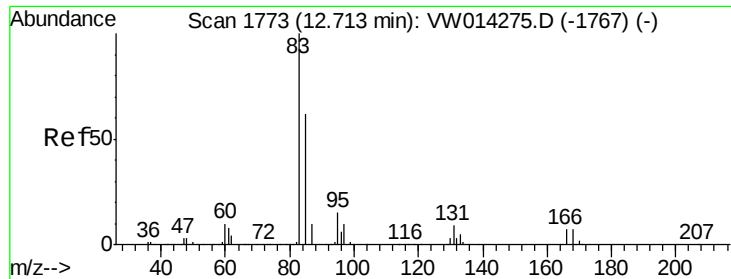
1000000

500000

0

Time-->





#58

1,1,2,2-Tetrachloroethane

Concen: 22.306 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

ClientSampleId :

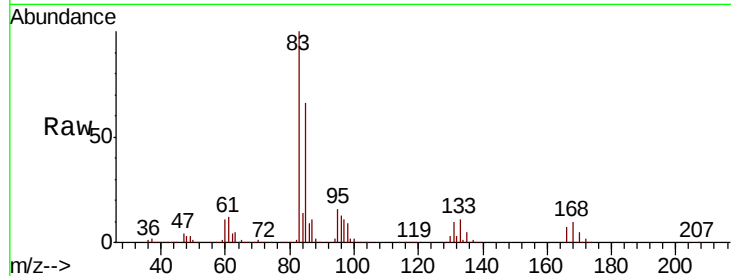
Tot Ion: 83 Resp: 357773

Ion Ratio Lower Upper

83 100

85 66.4 43.7 81.1

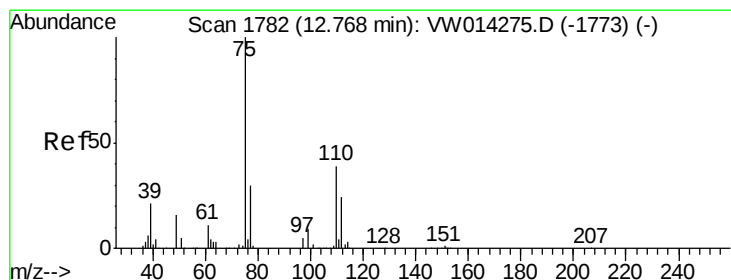
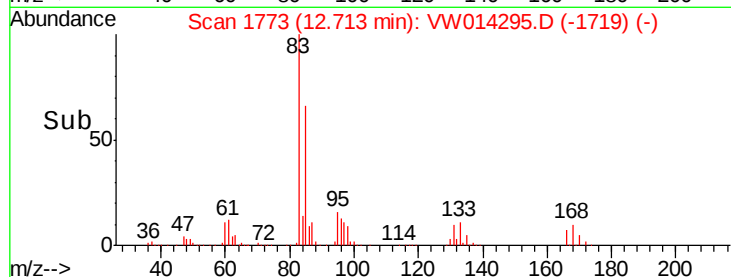
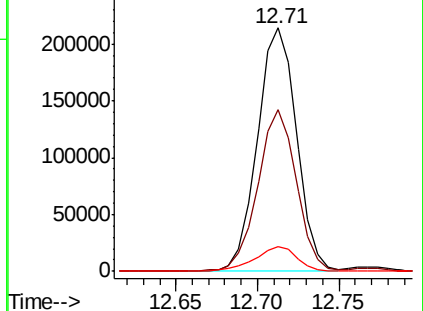
131 10.3 8.2 12.2



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: 22.304 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014295.D

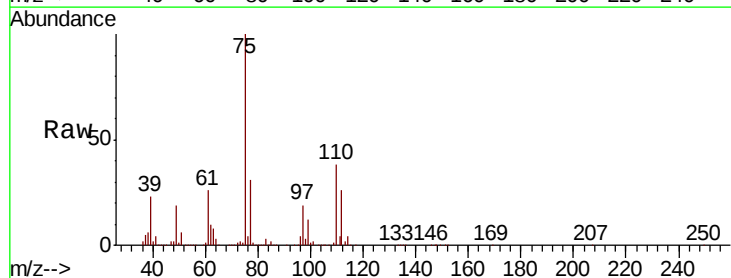
Acq: 10 Dec 2019 21:07

Tgt Ion: 75 Resp: 265821

Ion Ratio Lower Upper

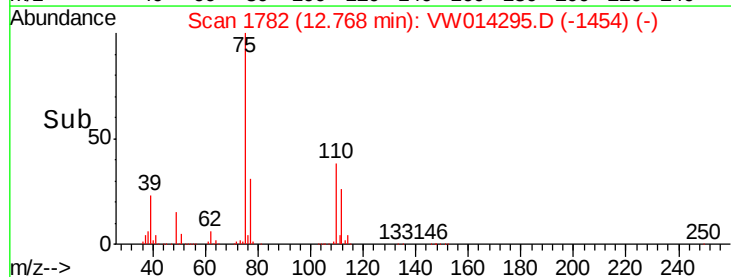
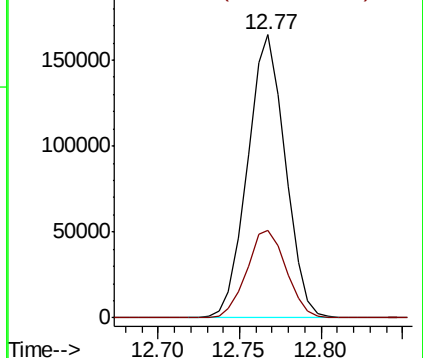
75 100

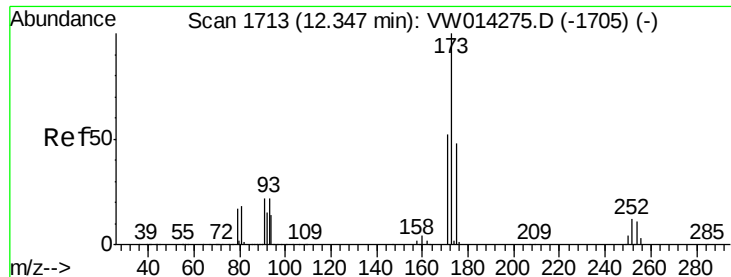
77 32.3 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

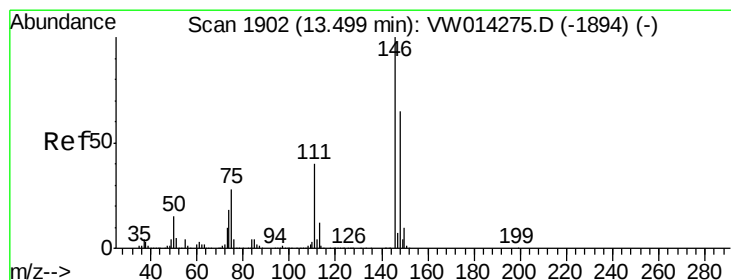
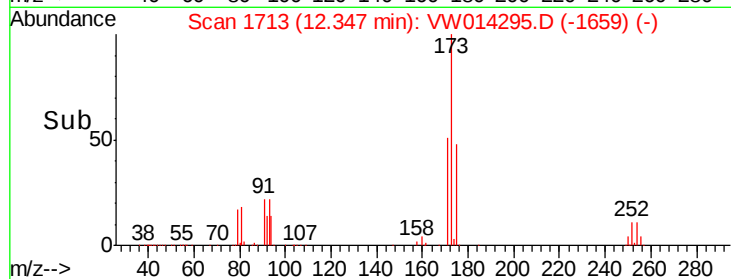
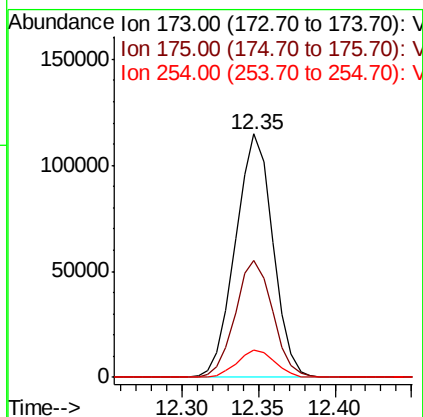
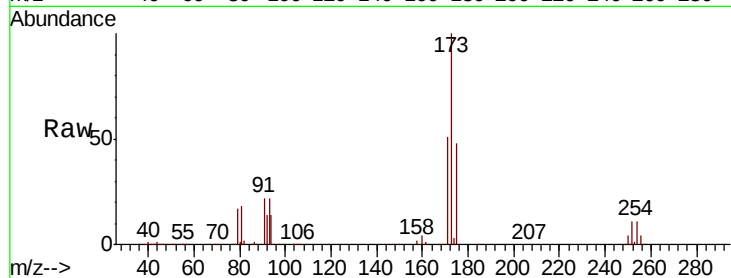




#62
Bromoform
Concen: 21.998 ug/L
RT: 12.35 min Scan# 1713
Delta R.T. -0.00 min
Lab File: VW014295.D
Acq: 10 Dec 2019 21:07

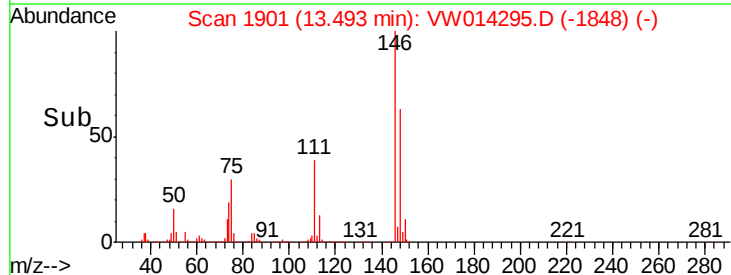
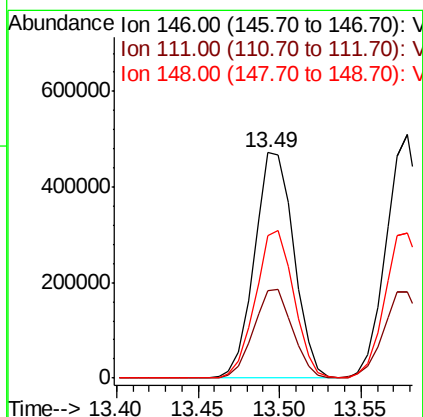
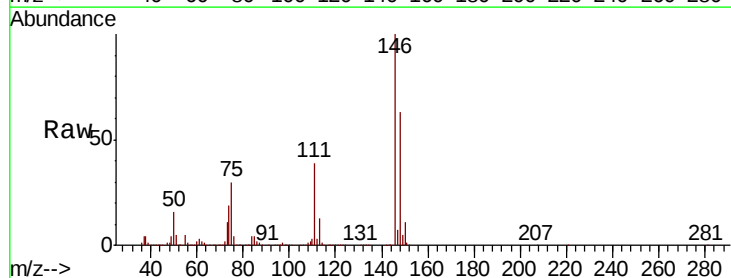
Instrument :
MSVOA_W
ClientSampleId :

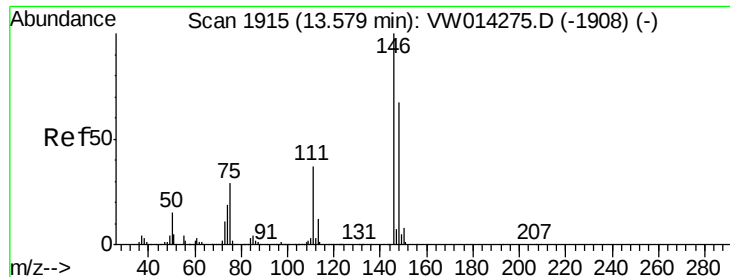
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	38.8	58.2
254	11.2	9.4	14.0



#63
1,3-Dichlorobenzene
Concen: 22.546 ug/L
RT: 13.49 min Scan# 1901
Delta R.T. -0.01 min
Lab File: VW014295.D
Acq: 10 Dec 2019 21:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	26.0	48.2
148	63.1	44.7	82.9

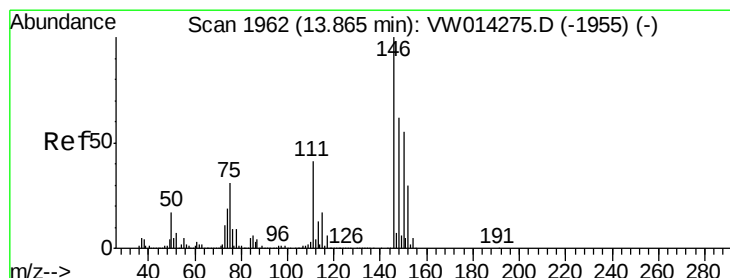
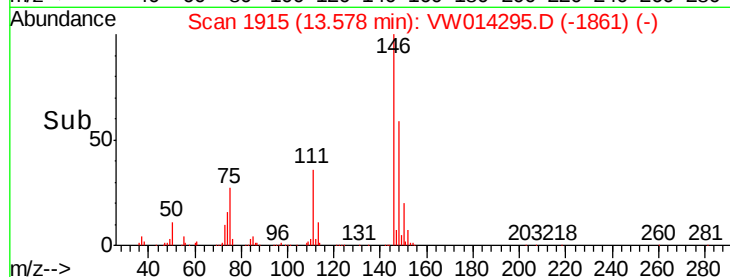
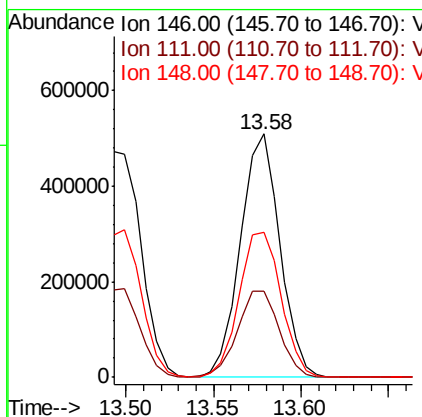
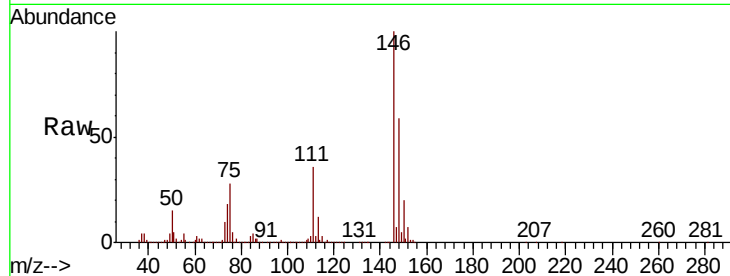




#64
 1,4-Dichlorobenzene
 Concen: 22.478 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

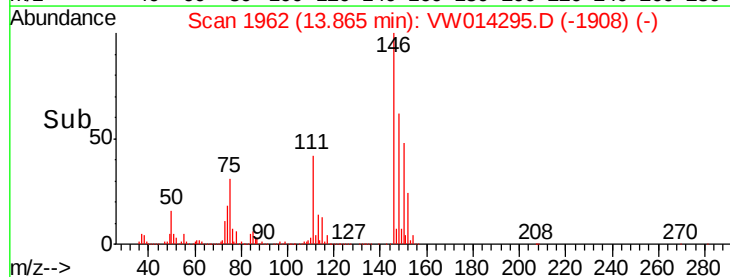
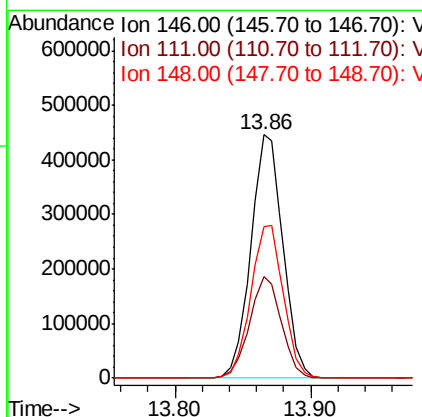
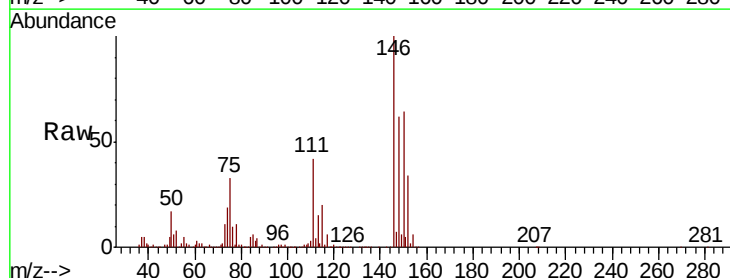
Instrument :
 MSVOA_W
 ClientSampled :

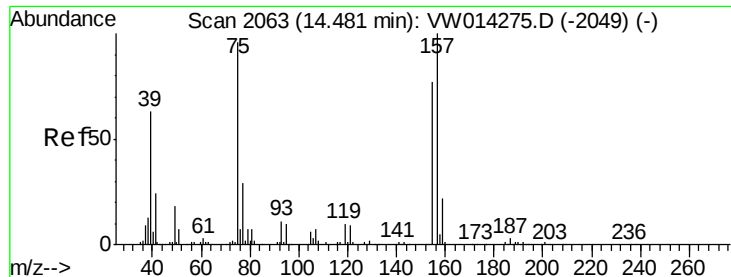
Tot Ion	Ratio	Lower	Upper
146	100		
111	35.7	24.9	46.3
148	59.4	43.9	81.5



#65
 1,2-Dichlorobenzene
 Concen: 22.550 ug/L
 RT: 13.86 min Scan# 1962
 Delta R.T. -0.00 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	30.5	45.7
148	62.5	49.4	74.2





#66

1,2-Dibromo-3-chloropropane

Concen: 21.219 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Instrument :

MSVOA_W

ClientSampleId :

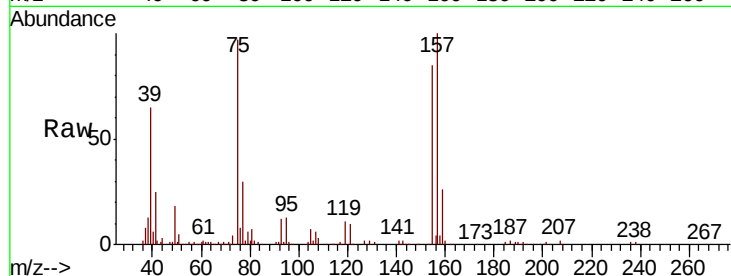
Tot Ion: 75 Resp: 53363

Ion Ratio Lower Upper

75 100

157 102.8 96.9 145.3

155 86.9 82.9 124.3

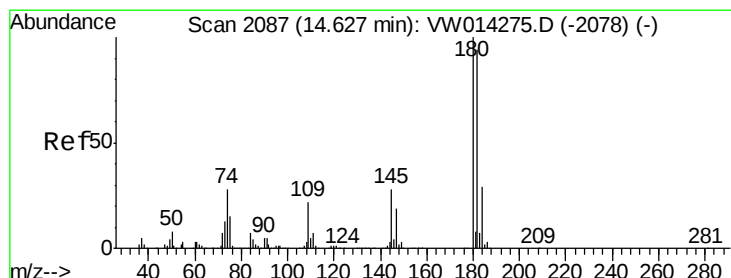
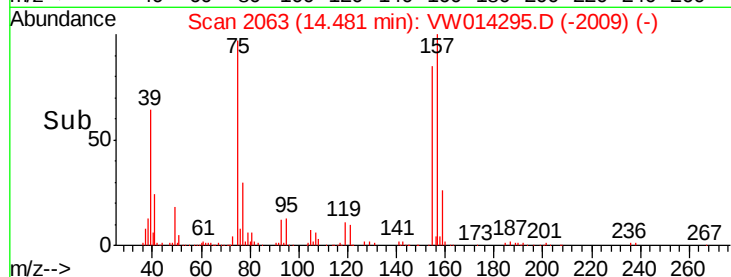
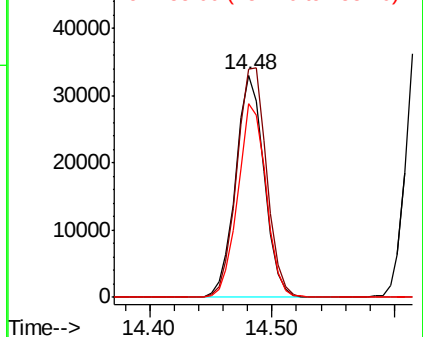


Abundance

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: 21.750 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. -0.00 min

Lab File: VW014295.D

Acq: 10 Dec 2019 21:07

Tgt Ion: 180 Resp: 548584

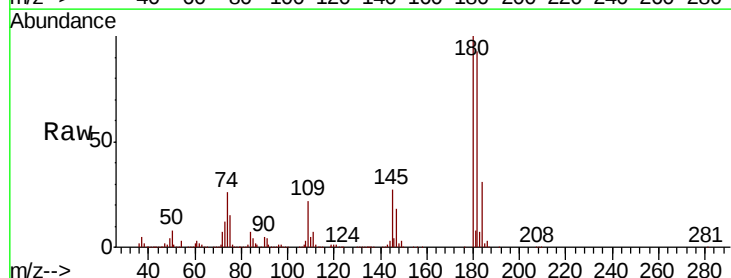
Ion Ratio Lower Upper

180 100

182 94.8 76.2 114.2

184 30.5 24.3 36.5

145 28.2 21.9 32.9



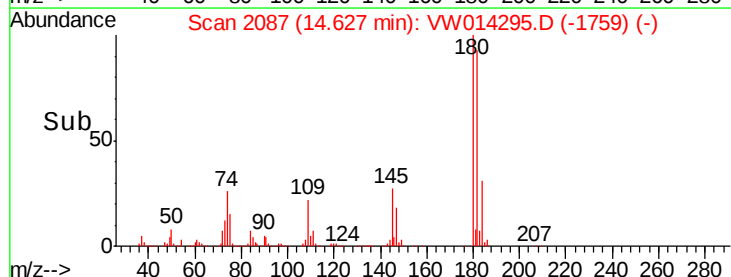
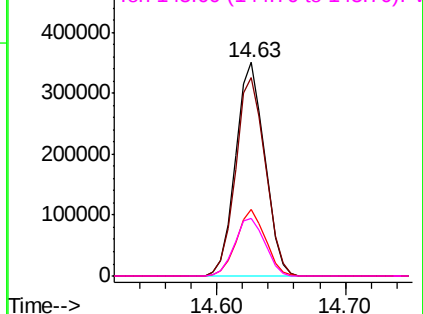
Abundance

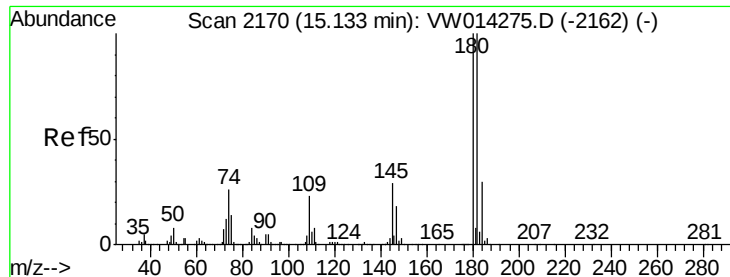
Ion 180.00 (179.70 to 180.70): V

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

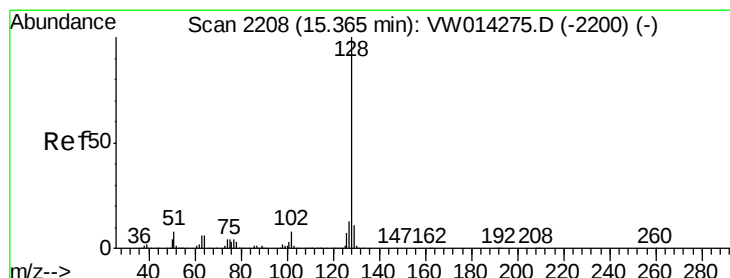
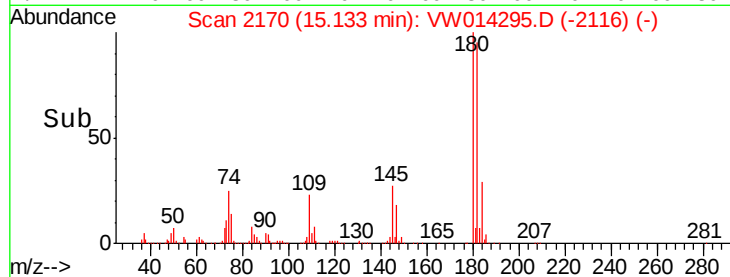
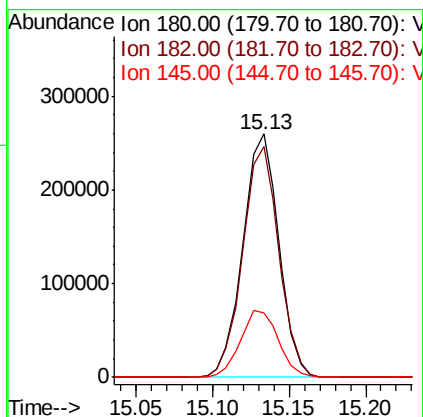
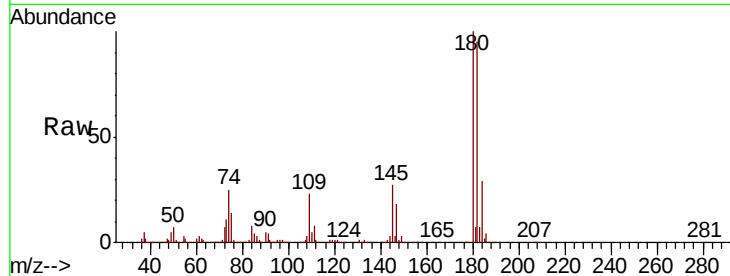




#68
 1,2,4-trichlorobenzene
 Concen: 21.619 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

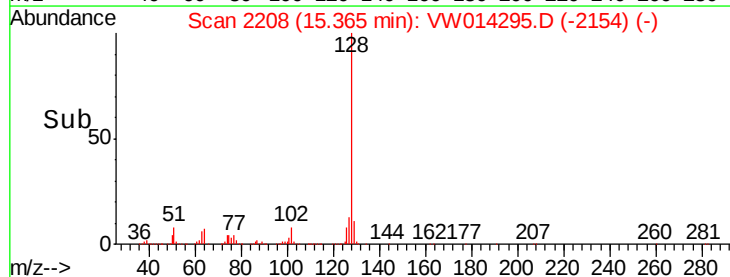
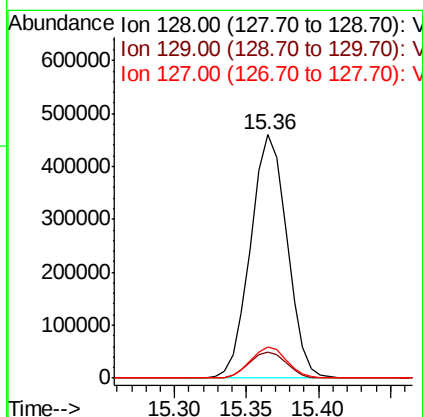
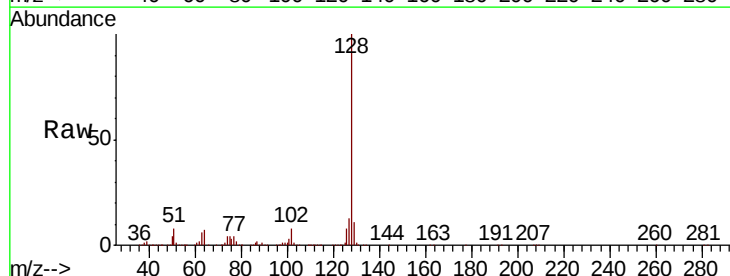
Instrument :
 MSVOA_W
 ClientSampleId :

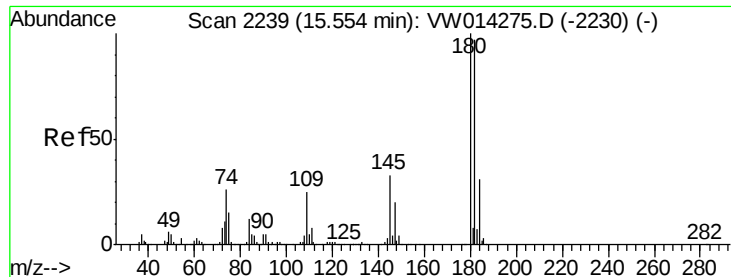
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.8	113.8
145	29.0	22.4	33.6



#69
 Naphthalene
 Concen: 21.814 ug/L
 RT: 15.36 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.1	10.4	15.6

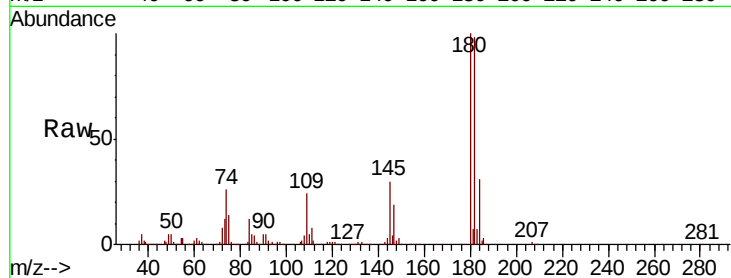




#70
 1,2,3-Trichlorobenzene
 Concen: 21.456 ug/L
 RT: 15.55 min Scan# 2239
 Delta R.T. -0.00 min
 Lab File: VW014295.D
 Acq: 10 Dec 2019 21:07

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	75.8	113.6
145	30.9	24.0	36.0



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

