

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121119\
 Data File : VW014297.D
 Acq On : 11 Dec 2019 11:25
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 12 04:54:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 11 15:52:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1258637	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1099851	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	534308	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	488268	25.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.48%
7) Chloroethane-d5	2.89	69	402935	28.43	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	113.72%
10) 1,1-Dichloroethene-d2	4.01	63	891418	26.48	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	105.92%
20) 2-Butanone-d5	7.07	46	252411	50.82	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.64%
24) Chloroform-d	7.65	84	900495	28.10	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	112.40%
26) 1,2-Dichloroethane-d4	8.30	65	454846	27.07	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	108.28%
29) Benzene-d6	8.27	84	1869309	29.00	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	116.00%
33) 1,2-Dichloropropane-d6	9.27	67	575661	29.03	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	116.12%
37) Toluene-d8	10.32	98	1691946	29.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	116.12%
38) trans-1,3-Dichloropropene-	10.57	79	227140	27.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	109.20%
39) 2-Hexanone-d5	10.92	63	200388	50.82	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.64%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	416738	25.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.16%
61) 1,2-Dichlorobenzene-d4	13.85	152	544066	26.65	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	106.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	288481	24.098	ug/L	99
3) Chloromethane	2.21	50	277311	23.043	ug/L	98
5) Vinyl chloride	2.36	62	425070	23.856	ug/L	94
6) Bromomethane	2.78	94	250306	22.774	ug/L	99
8) Chloroethane	2.92	64	249868	24.545	ug/L	96
9) Trichlorofluoromethane	3.26	101	275643	31.248	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	384608	23.167	ug/L	94
12) 1,1-Dichloroethene	4.04	96	378904	22.544	ug/L	81
13) Acetone	4.12	43	239782	50.074	ug/L	99
14) Carbon disulfide	4.38	76	1168261	22.663	ug/L	100
15) Methyl Acetate	4.67	43	175613	19.389	ug/L	98
16) Methylene chloride	4.92	84	406125	21.049	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	475946	21.473	ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	397345	22.075	ug/L	91
19) 1,1-Dichloroethane	6.21	63	723647	22.377	ug/L	99
21) 2-Butanone	7.16	43	264424	41.130	ug/L	97
22) cis-1,2-Dichloroethene	7.16	96	420076	21.933	ug/L	97

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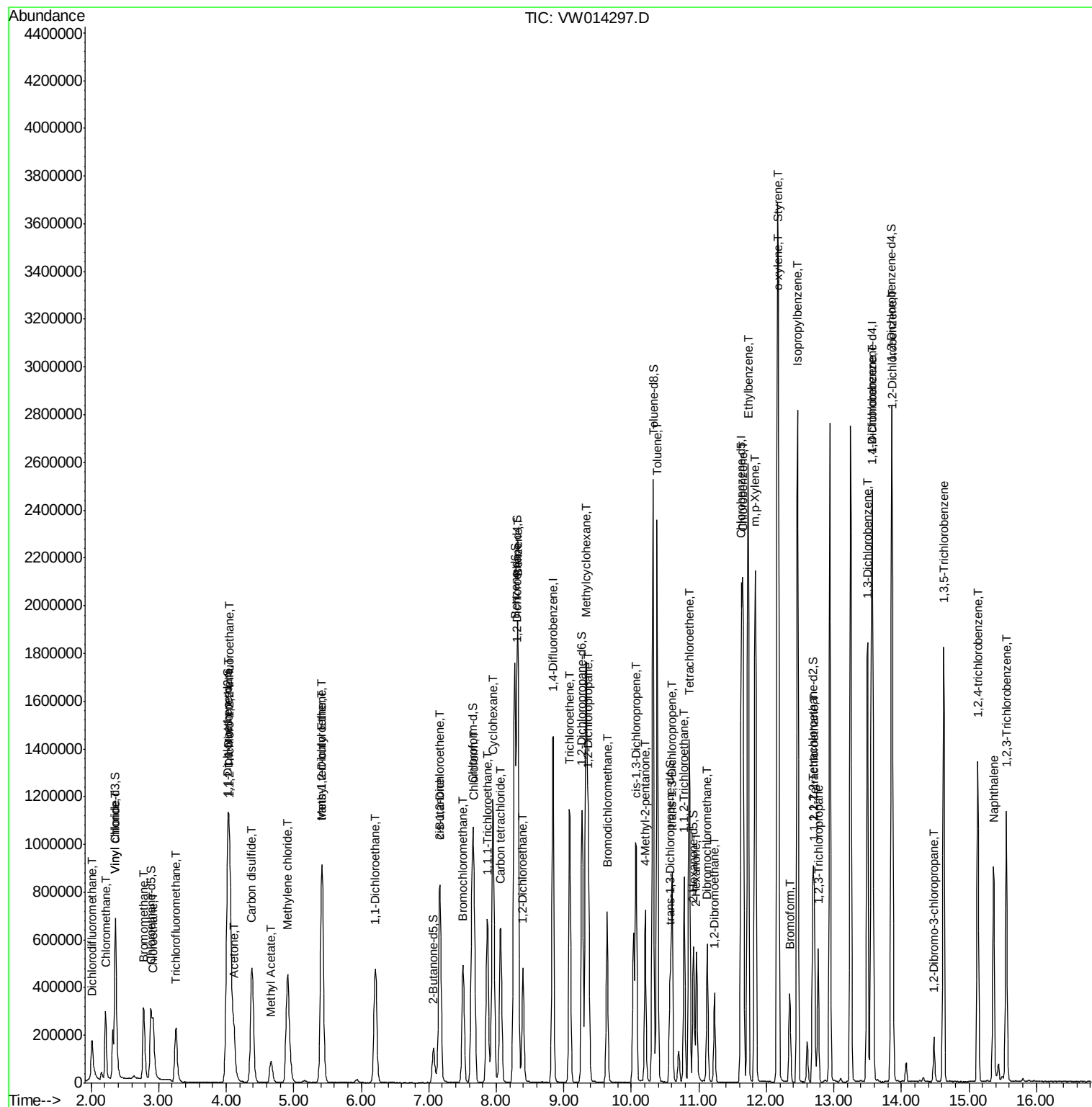
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	179131	20.333	ug/L	83
25) Chloroform	7.67	83	697778	22.205	ug/L	100
27) 1,2-Dichloroethane	8.40	62	433619	21.072	ug/L	97
30) Cyclohexane	7.95	56	692977	25.243	ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	557511	25.240	ug/L	97
32) Carbon tetrachloride	8.07	117	515257	24.585	ug/L	100
34) Benzene	8.32	78	1650413	23.699	ug/L	100
35) Trichloroethene	9.09	95	414078	23.239	ug/L	95
36) Methylcyclohexane	9.33	83	724611	24.201	ug/L	95
40) 1,2-Dichloropropane	9.37	63	409954	22.914	ug/L	99
41) Bromodichloromethane	9.64	83	485600	22.334	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	612032	22.843	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	468143	39.681	ug/L	98
44) Toluene	10.38	91	1721856	23.584	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	479569	22.112	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	276674	20.637	ug/L	99
47) Tetrachloroethene	10.86	164	338087	22.765	ug/L	96
49) 2-Hexanone	10.96	43	355125	42.281	ug/L	98
50) Dibromochloromethane	11.13	129	315870	20.993	ug/L	99
51) 1,2-Dibromoethane	11.23	107	258140	20.328	ug/L	95
52) Chlorobenzene	11.66	112	1038060	21.999	ug/L	94
53) Ethylbenzene	11.73	91	1875563	23.675	ug/L	99
54) m,p-Xylene	11.83	106	718688	23.583	ug/L	99
55) o-xylene	12.16	106	675457	23.368	ug/L	98
56) Styrene	12.18	104	1154687	23.351	ug/L	98
57) Isopropylbenzene	12.46	105	1818519	24.234	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	326581	19.626	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	242027	19.574	ug/L	100
62) Bromoform	12.35	173	173877	19.174	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	789726	21.990	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	791679	21.697	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	718468	21.513	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.48	75	48201	18.710	ug/L #	82
67) 1,3,5-Trichlorobenzene	14.63	180	591480	22.892	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	444325	22.059	ug/L	98
69) Naphthalene	15.36	128	774305	20.441	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	403367	21.355	ug/L	98

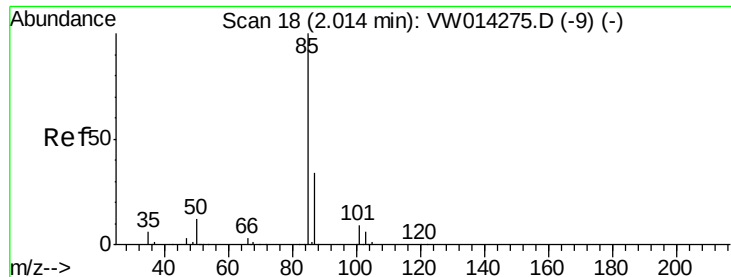
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.098 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

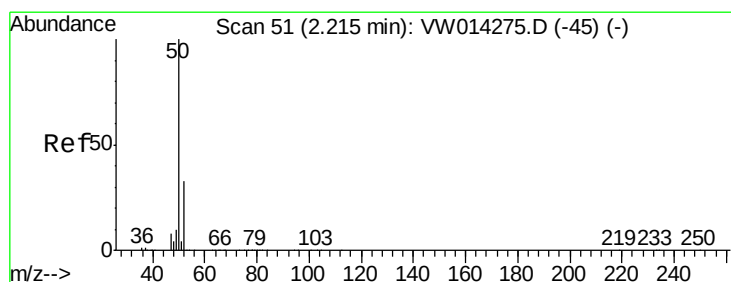
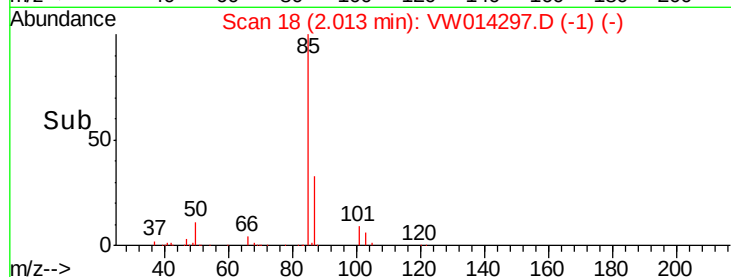
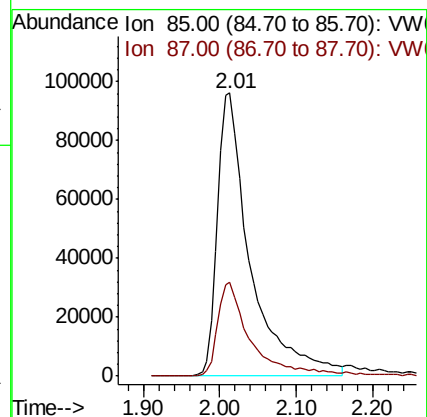
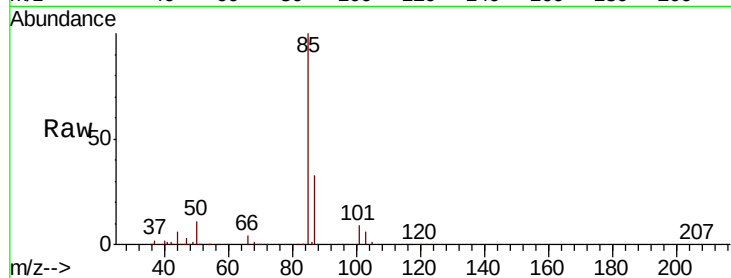
ClientSampled :

Tot Ion: 85 Resp: 288481

Ion Ratio Lower Upper

85 100

87 31.3 22.1 41.1



#3

Chloromethane

Concen: 23.043 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW014297.D

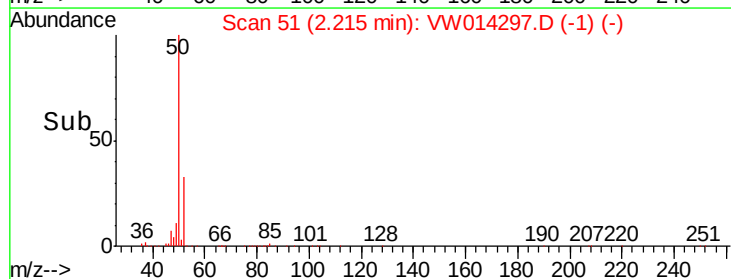
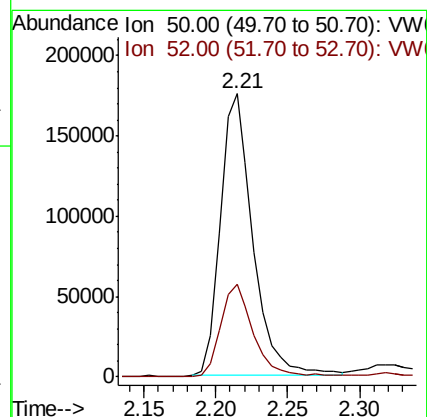
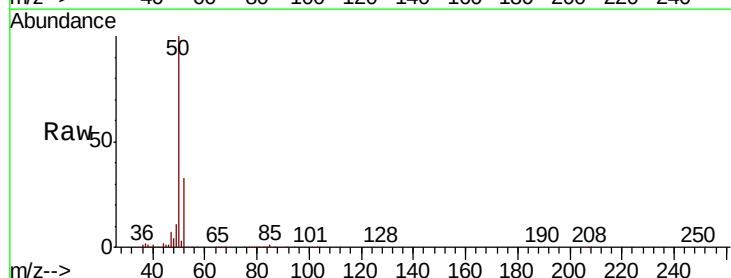
Acq: 11 Dec 2019 11:25

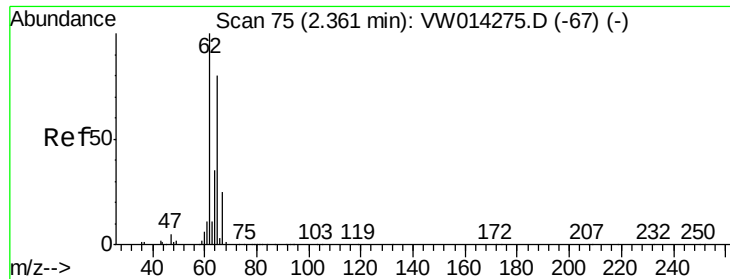
Tgt Ion: 50 Resp: 277311

Ion Ratio Lower Upper

50 100

52 32.9 23.8 44.2





#5

Vinyl chloride

Concen: 23.856 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

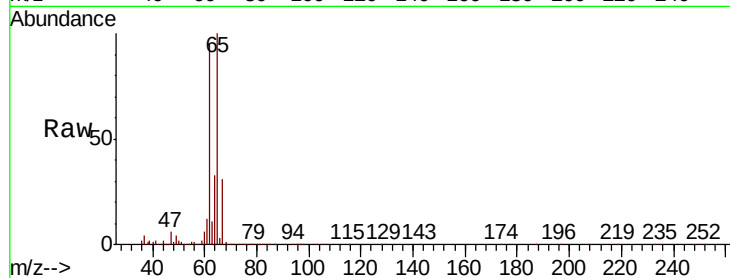
ClientSampled :

Tot Ion: 62 Resp: 425070

Ion Ratio Lower Upper

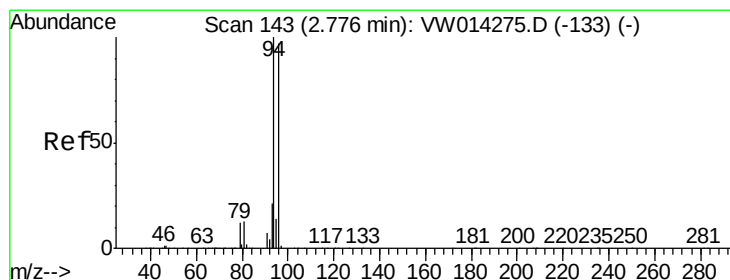
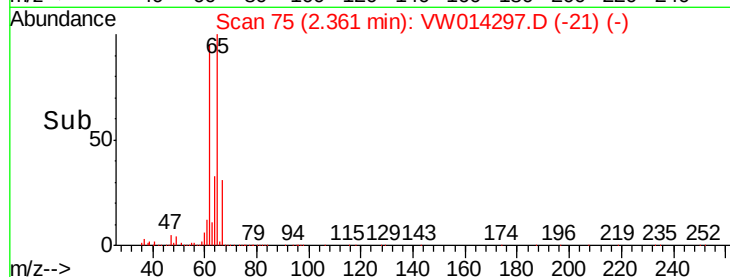
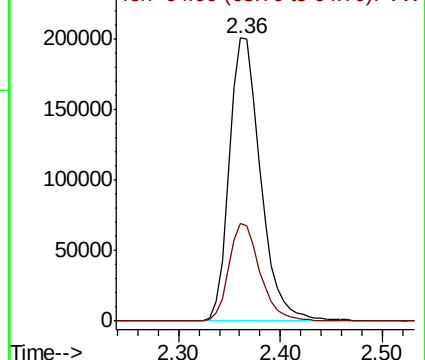
62 100

64 34.7 21.8 40.4



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 22.774 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014297.D

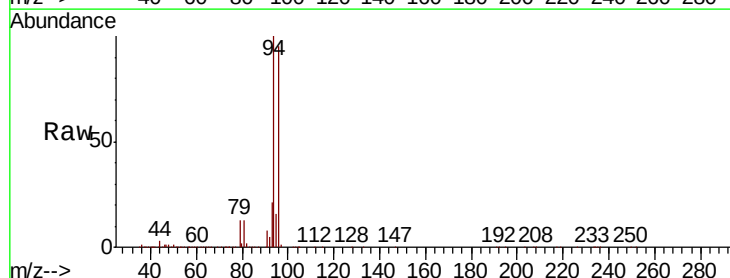
Acq: 11 Dec 2019 11:25

Tgt Ion: 94 Resp: 250306

Ion Ratio Lower Upper

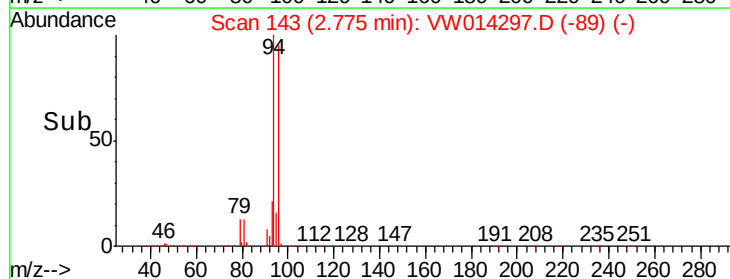
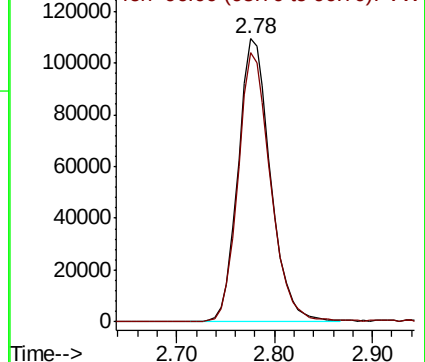
94 100

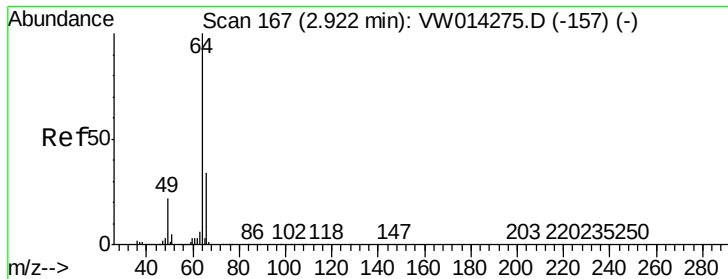
96 95.3 9.4 178.8



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 24.545 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

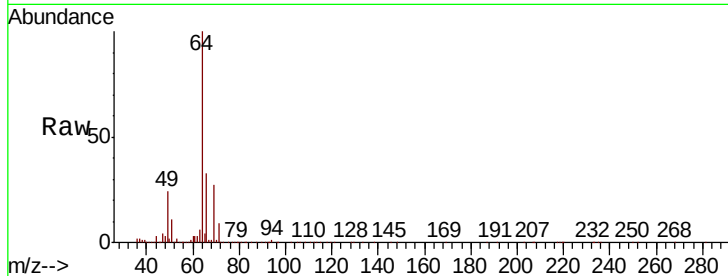
ClientSampleId :

Tot Ion: 64 Resp: 249868

Ion Ratio Lower Upper

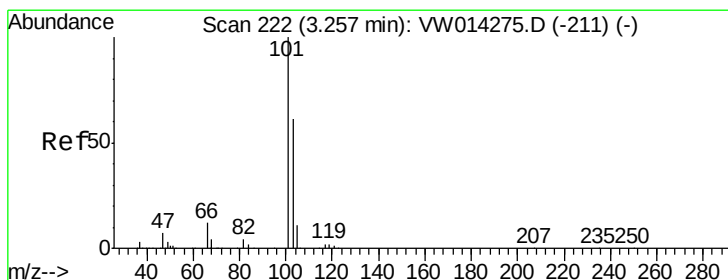
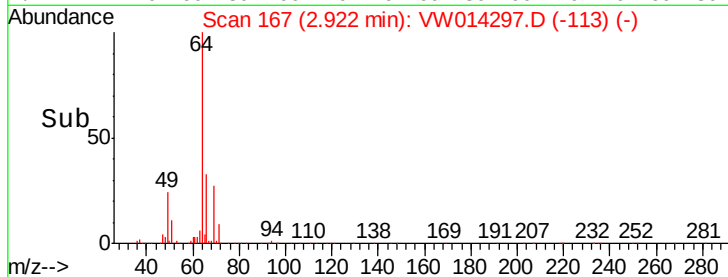
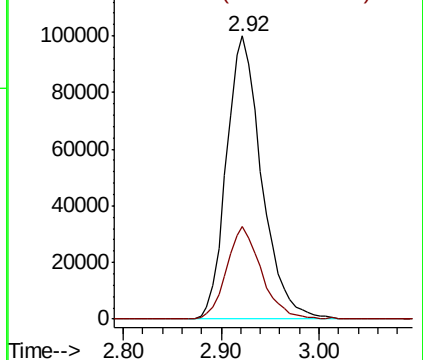
64 100

66 32.6 21.2 39.4



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 31.248 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW014297.D

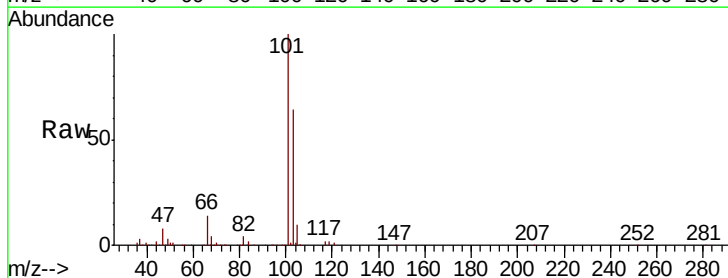
Acq: 11 Dec 2019 11:25

Tgt Ion: 101 Resp: 275643

Ion Ratio Lower Upper

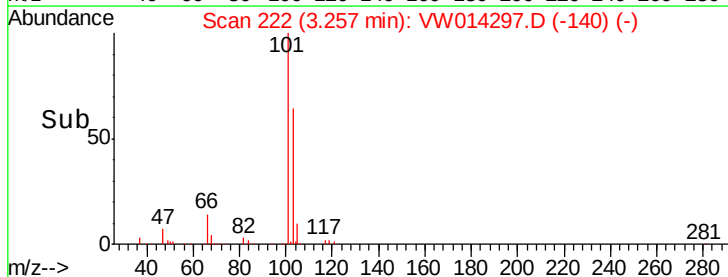
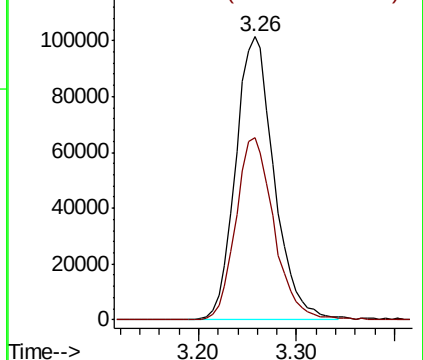
101 100

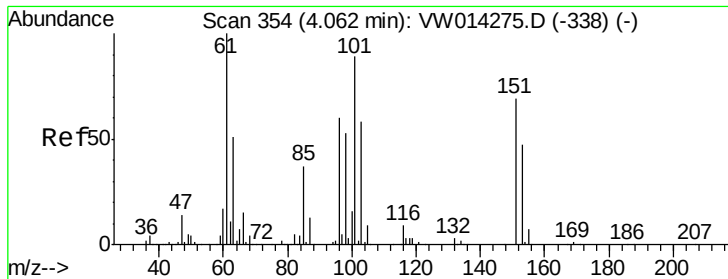
103 64.0 45.4 84.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 23.167 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

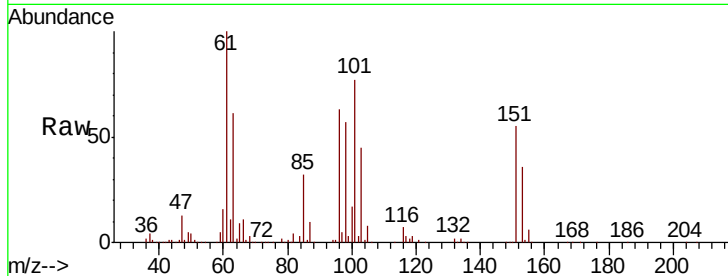
Tot Ion:101 Resp: 384608

Ion Ratio Lower Upper

101 100

85 41.5 31.4 47.2

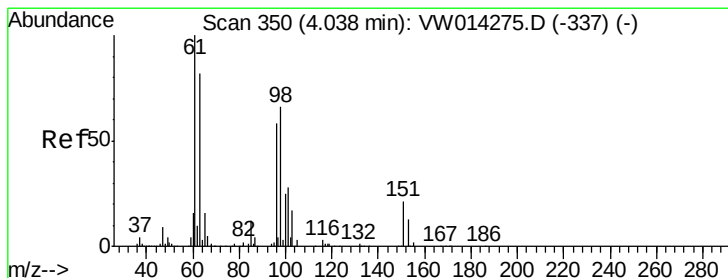
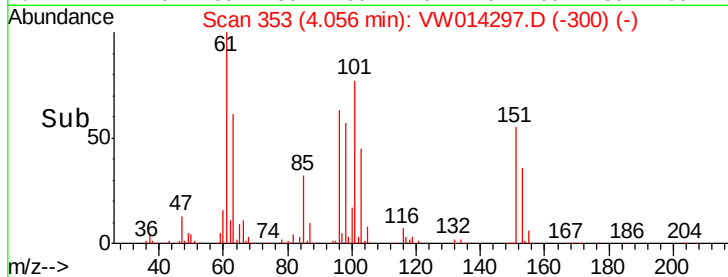
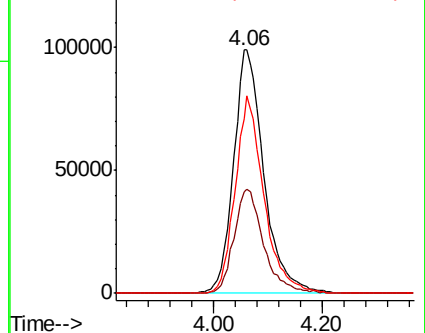
151 76.8 66.9 100.3



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



#12

1,1-Dichloroethene

Concen: 22.544 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

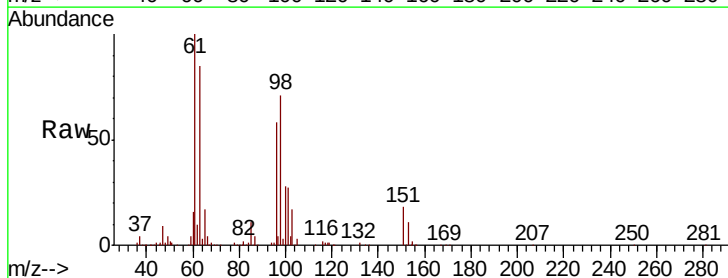
Tgt Ion: 96 Resp: 378904

Ion Ratio Lower Upper

96 100

61 172.5 109.8 204.0

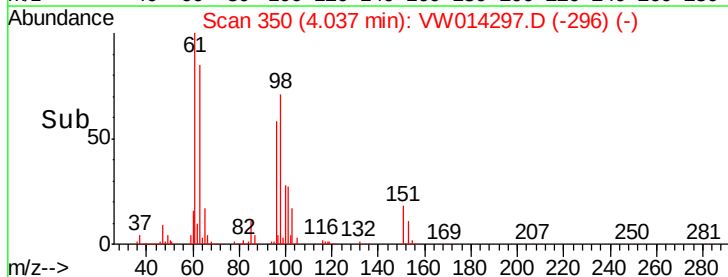
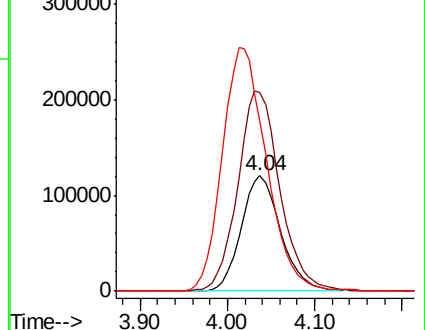
63 147.2 80.7 149.9

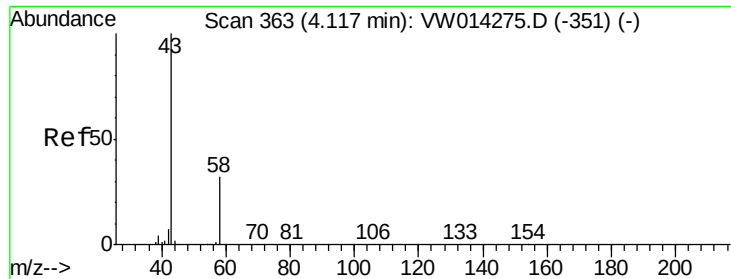


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

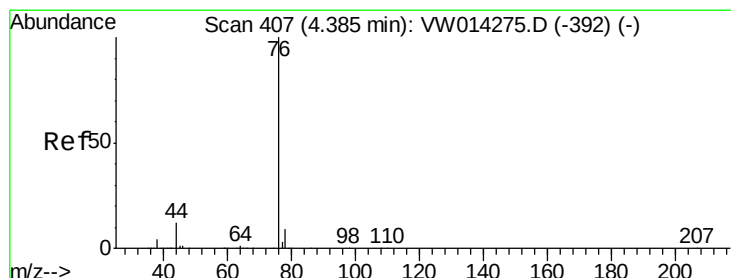
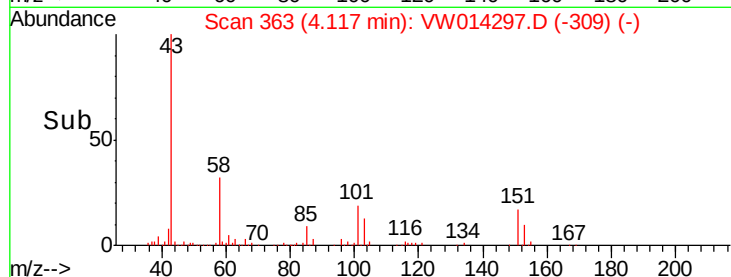
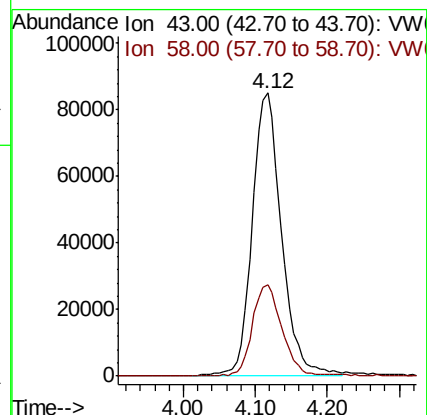
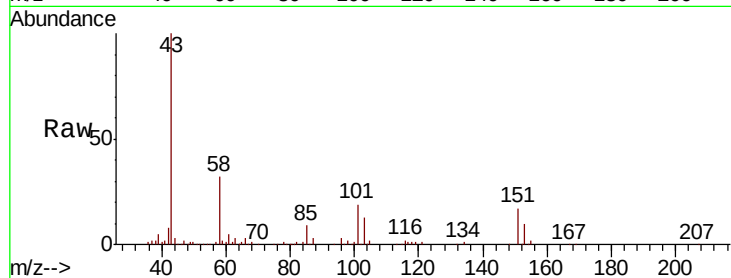




#13
Acetone
Concen: 50.074 ug/L
RT: 4.12 min Scan# 363
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

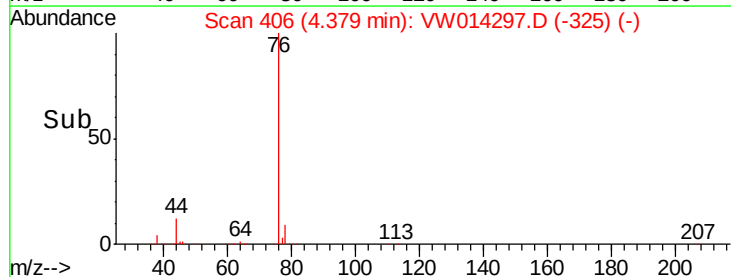
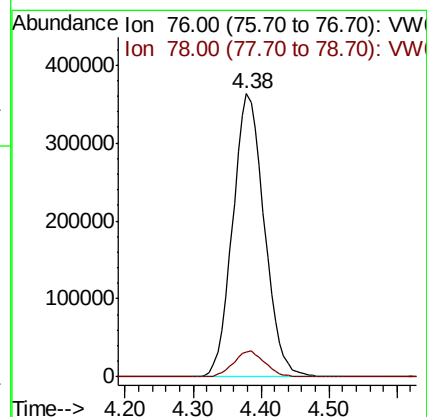
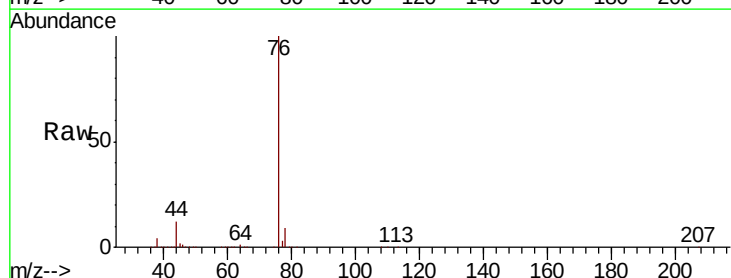
Instrument :
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ClientSampleId :

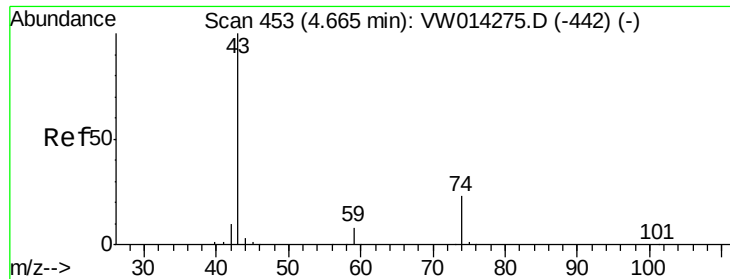
Tot Ion: 43 Resp: 239782
Ion Ratio Lower Upper
43 100
58 32.2 0.0 65.4



#14
Carbon disulfide
Concen: 22.663 ug/L
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

Tgt Ion: 76 Resp: 1168261
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8

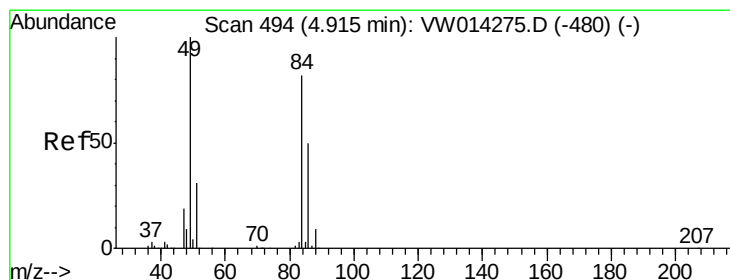
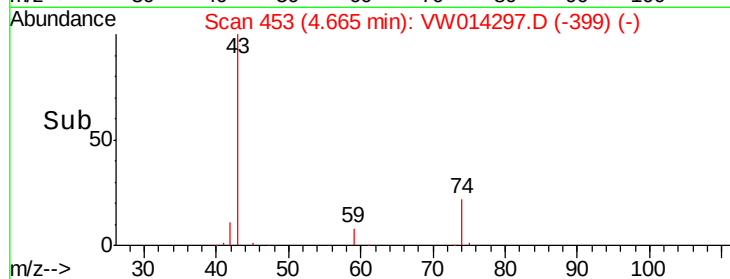
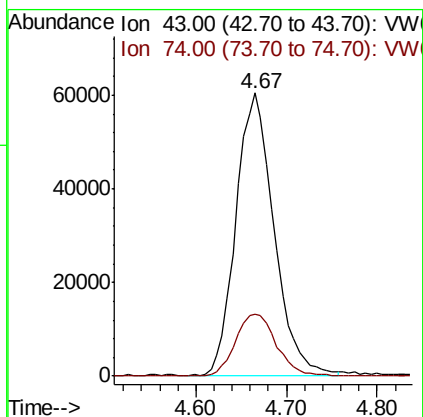
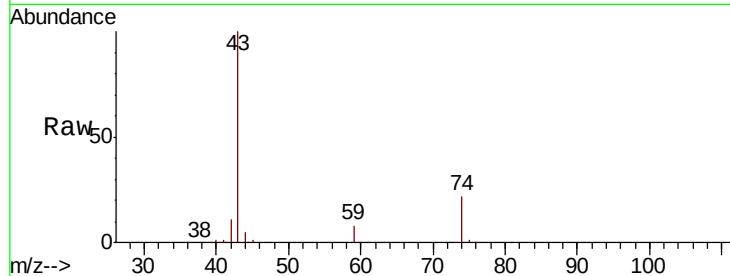




#15
Methvl Acetate
Concen: 19.389 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

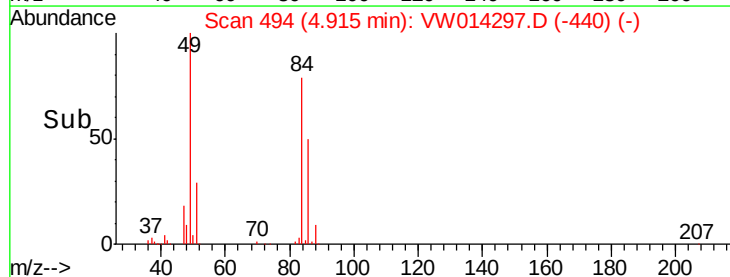
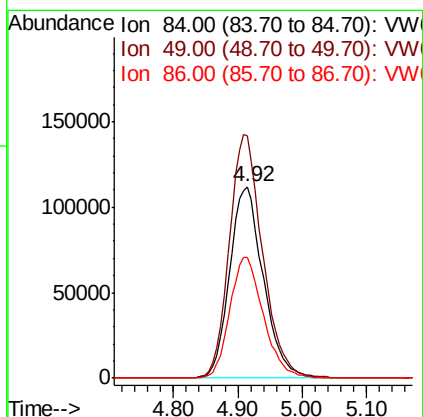
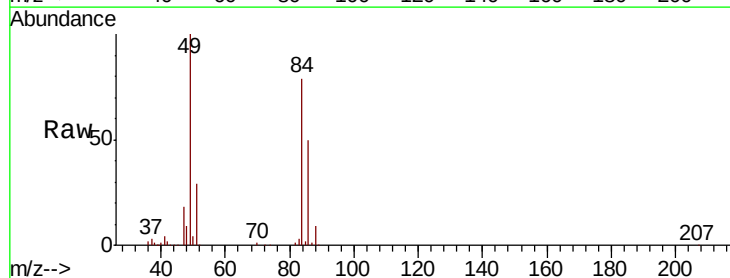
Instrument :
MSVOA_W
ClientSampled :

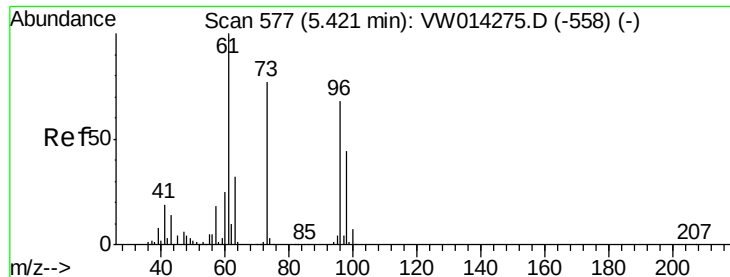
Tot Ion: 43 Resp: 175613
Ion Ratio Lower Upper
43 100
74 23.4 19.3 28.9



#16
Methylene chloride
Concen: 21.049 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

Tgt Ion: 84 Resp: 406125
Ion Ratio Lower Upper
84 100
49 126.5 84.2 156.4
86 62.8 43.7 81.1

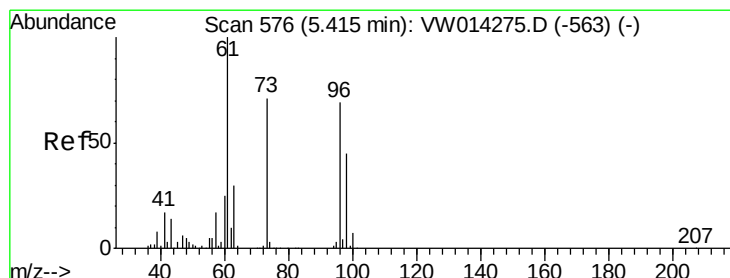
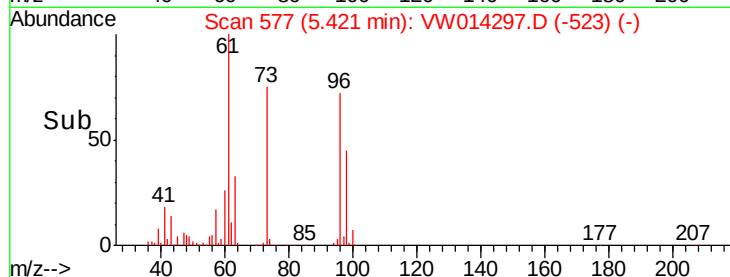
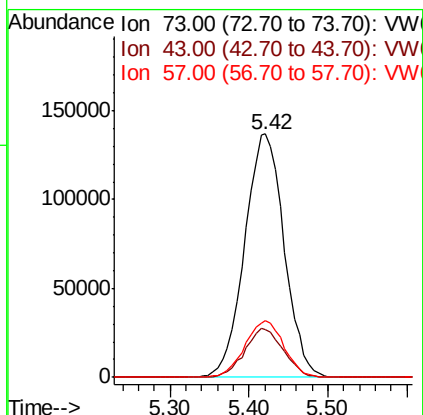
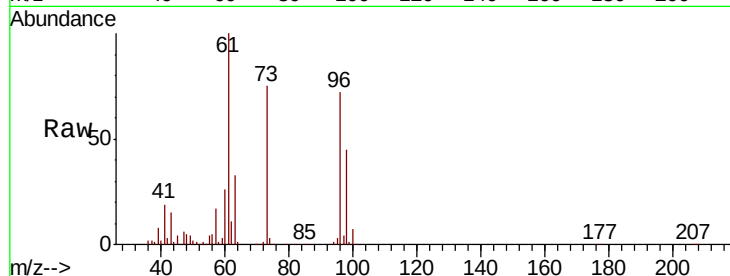




#17
Methyl tert-butyl Ether
Concen: 21.473 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

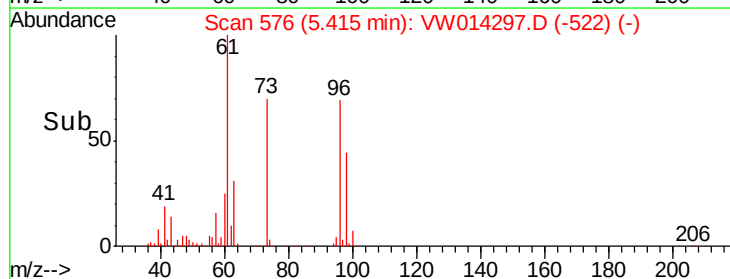
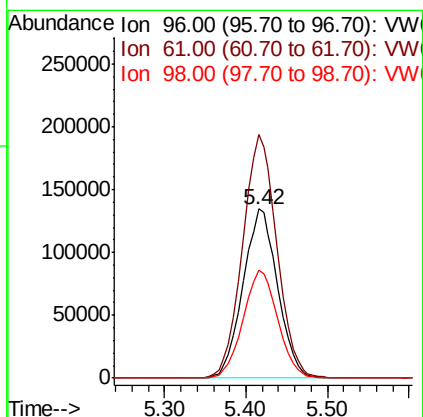
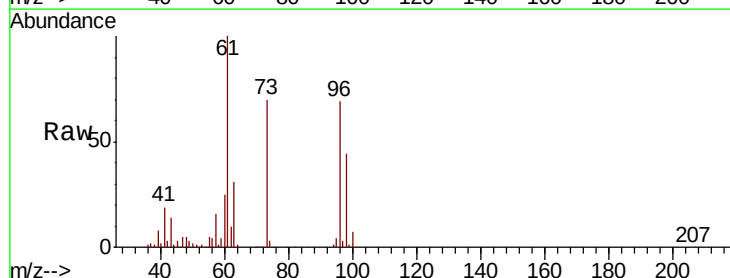
Instrument :
MSVOA_W
ClientSampleId :

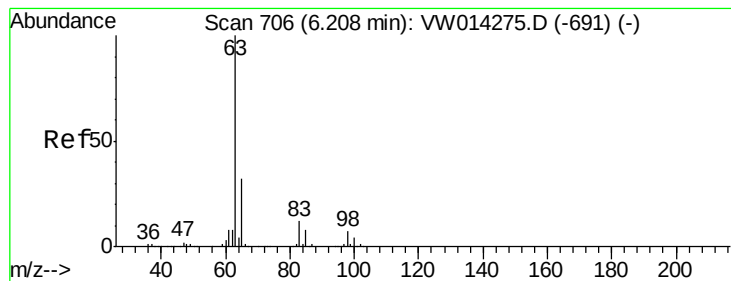
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.8	15.5	23.3
57	22.9	18.2	27.4



#18
trans-1,2-Dichloroethene
Concen: 22.075 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	144.0	90.6	168.2
98	63.5	42.9	79.7





#19

1,1-Dichloroethane

Concen: 22.377 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

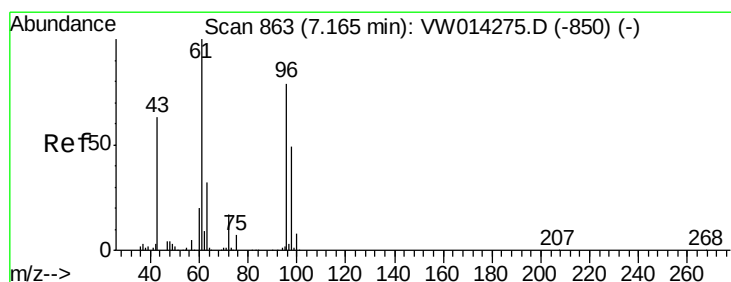
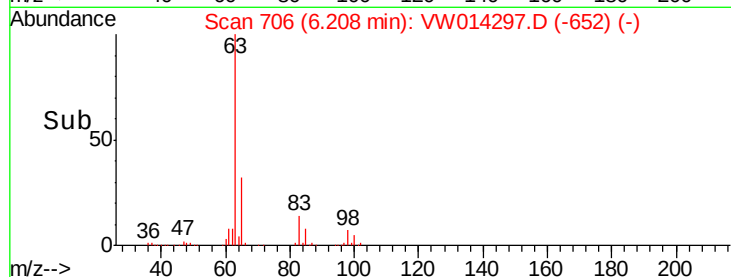
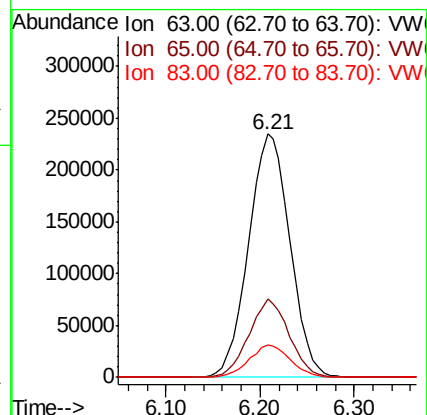
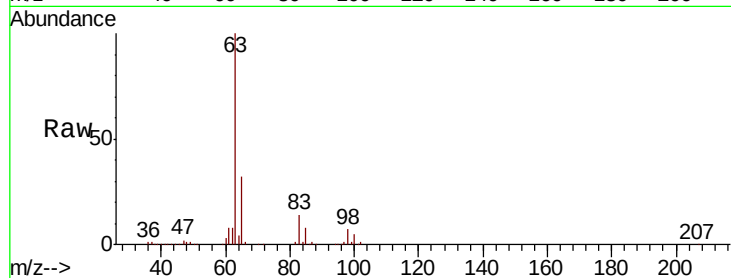
Tot Ion: 63 Resp: 723647

Ion Ratio Lower Upper

63 100

65 32.0 22.1 41.1

83 13.6 9.0 16.6



#21

2-Butanone

Concen: 41.130 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014297.D

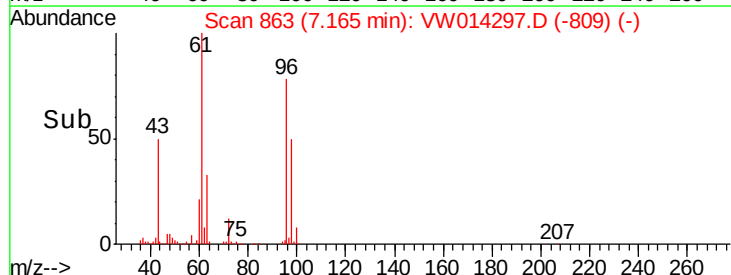
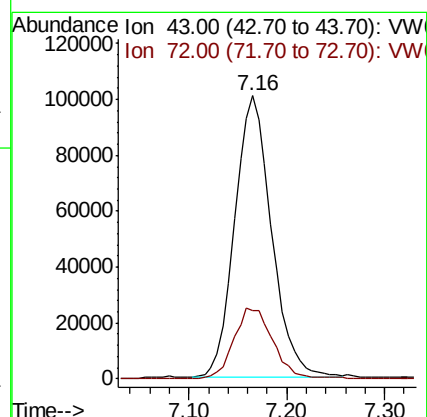
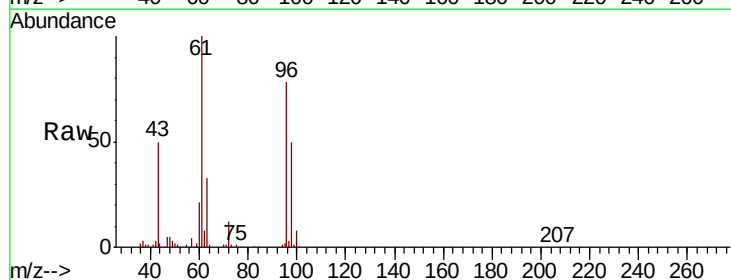
Acq: 11 Dec 2019 11:25

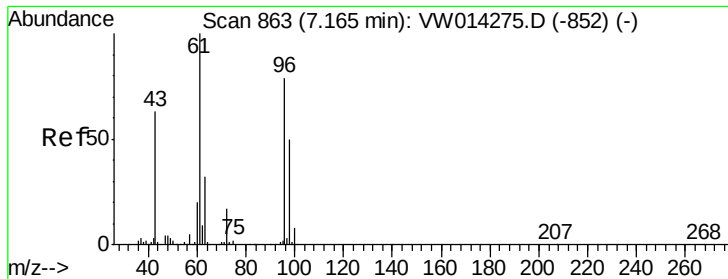
Tgt Ion: 43 Resp: 264424

Ion Ratio Lower Upper

43 100

72 26.4 14.1 42.2



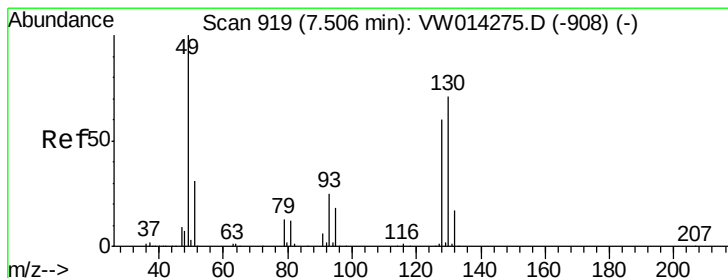
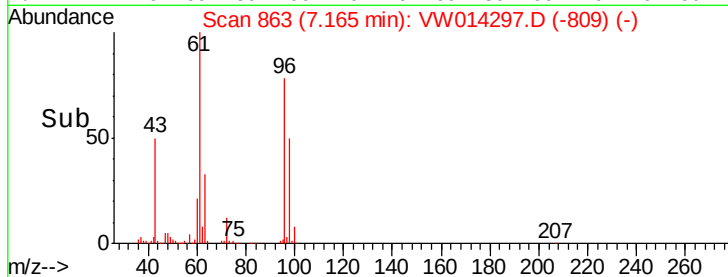
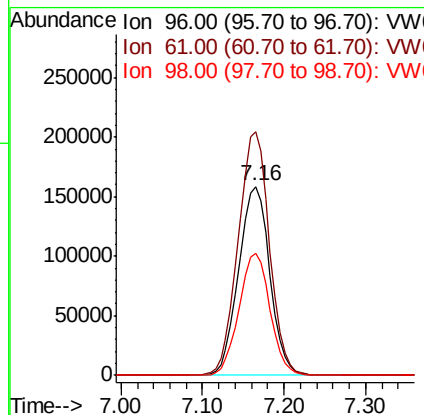
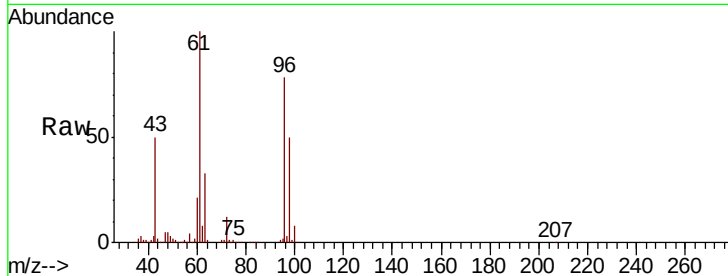


#22

cis-1,2-Dichloroethene
 Concen: 21.933 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW014297.D
 Acq: 11 Dec 2019 11:25

Instrument :
 MSVOA_W
 ClientSampled :

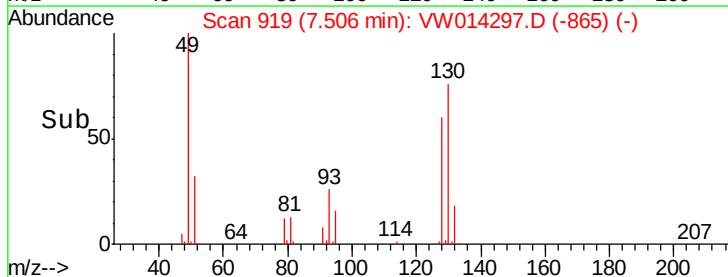
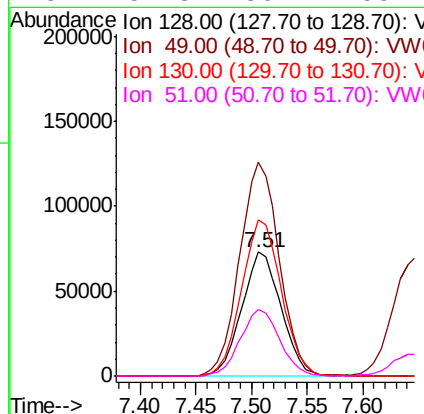
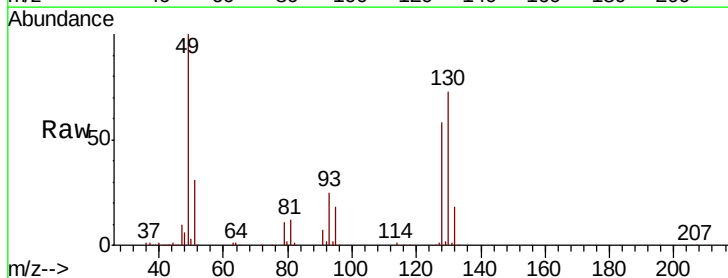
Tot Ion: 96 Resp: 420076
 Ion Ratio Lower Upper
 96 100
 61 129.0 86.9 161.5
 98 64.8 45.5 84.5

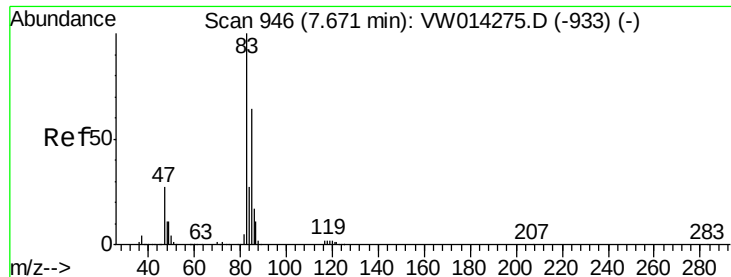


#23

Bromochloromethane
 Concen: 20.333 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VW014297.D
 Acq: 11 Dec 2019 11:25

Tgt Ion: 128 Resp: 179131
 Ion Ratio Lower Upper
 128 100
 49 172.8 95.1 176.5
 130 126.2 85.0 158.0
 51 54.3 36.7 55.1





#25

Chloroform

Concen: 22.205 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

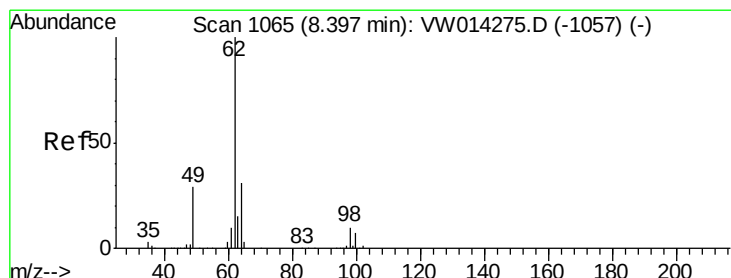
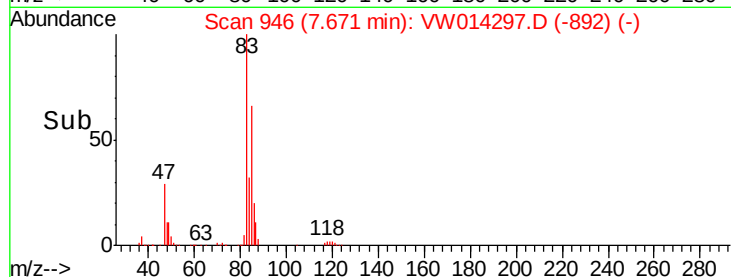
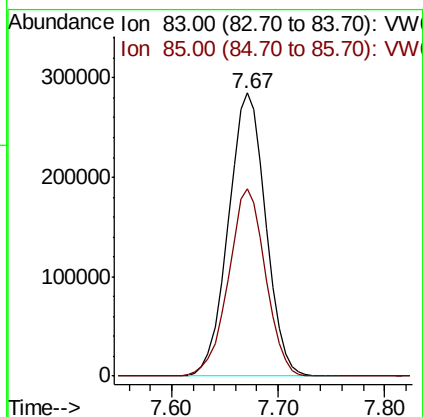
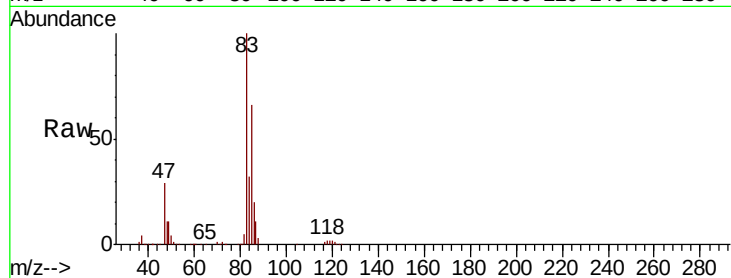
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 83 Resp: 697778

Ion Ratio Lower Upper

83 100

85 66.1 46.1 85.7



#27

1,2-Dichloroethane

Concen: 21.072 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014297.D

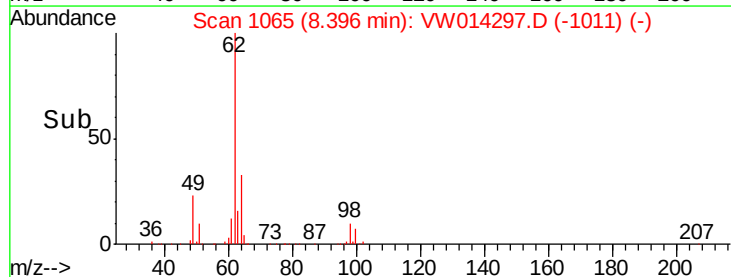
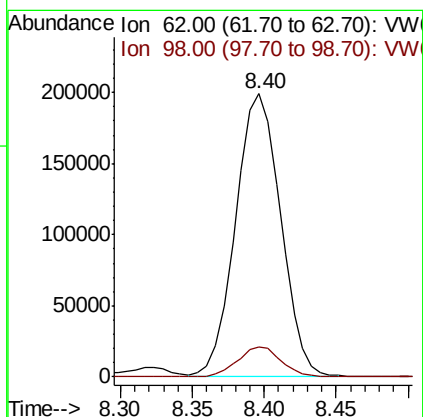
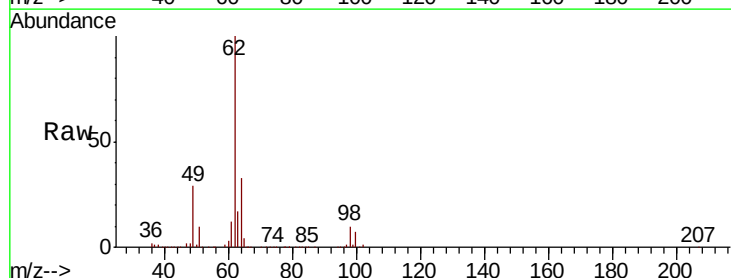
Acq: 11 Dec 2019 11:25

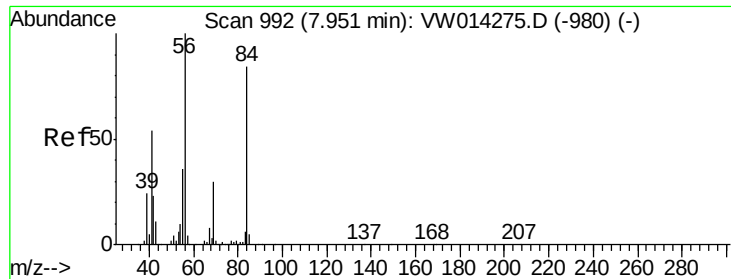
Tgt Ion: 62 Resp: 433619

Ion Ratio Lower Upper

62 100

98 10.4 9.3 13.9

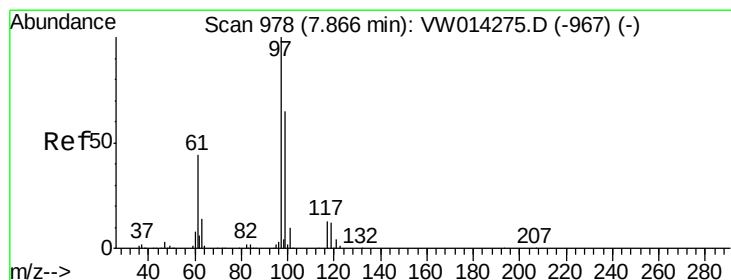
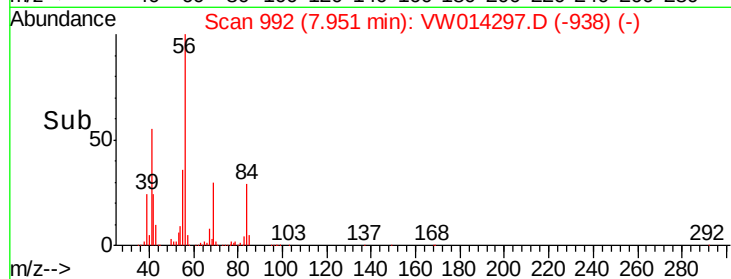
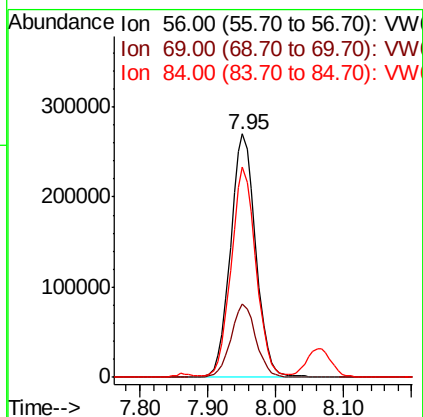
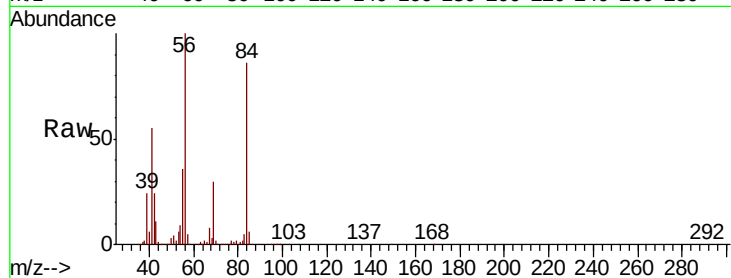




#30
Cyclohexane
Concen: 25.243 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

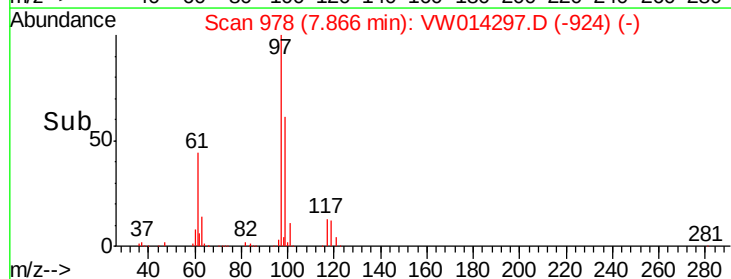
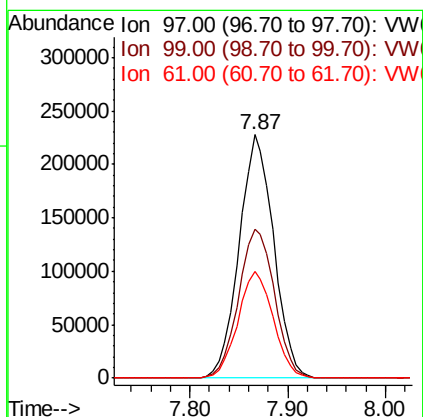
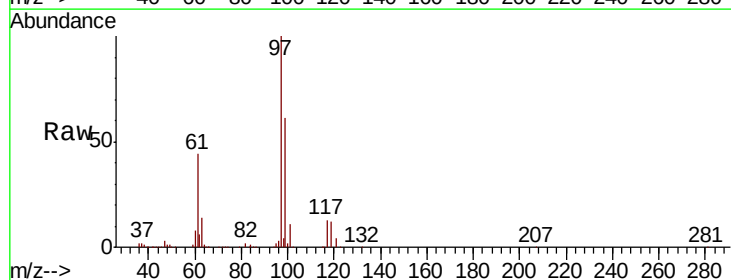
Instrument :
MSVOA_W
ClientSampleId :

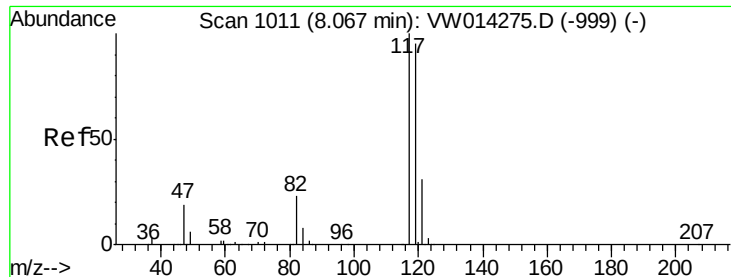
Tot Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.6	37.0
84	84.7	70.2	105.2



#31
1,1,1-Trichloroethane
Concen: 25.240 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.1	76.7
61	44.9	32.8	49.2





#32

Carbon tetrachloride

Concen: 24.585 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

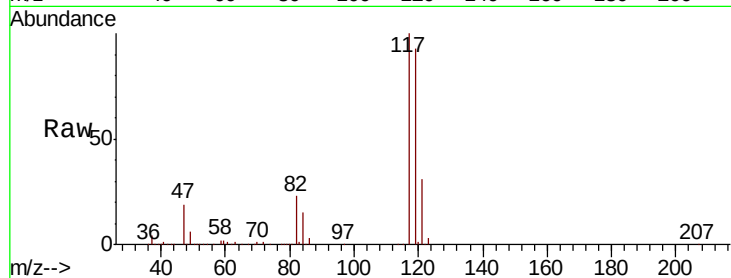
ClientSampleId :

Tot Ion:117 Resp: 515257

Ion Ratio Lower Upper

117 100

119 96.0 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

250000

200000

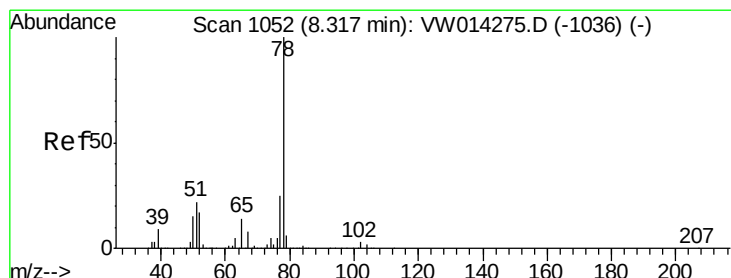
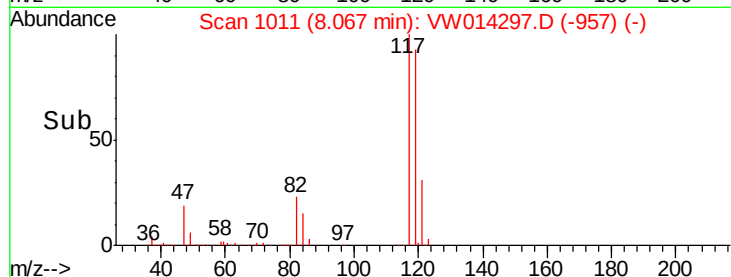
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 23.699 ug/L

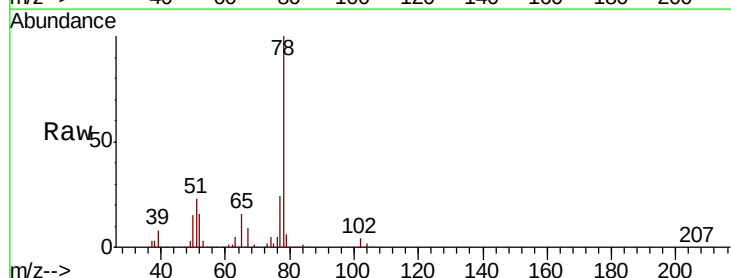
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Tgt Ion: 78 Resp: 1650413



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

800000

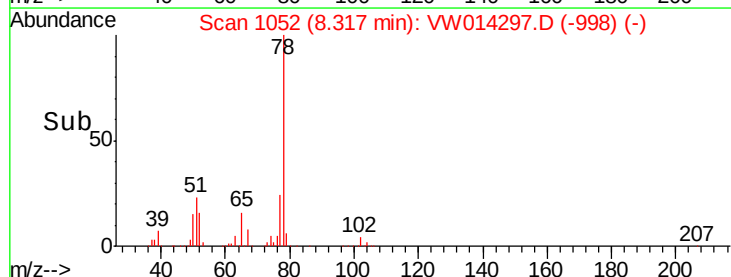
600000

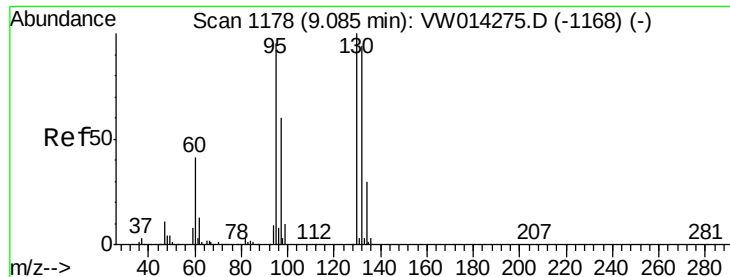
400000

200000

0

Time-->

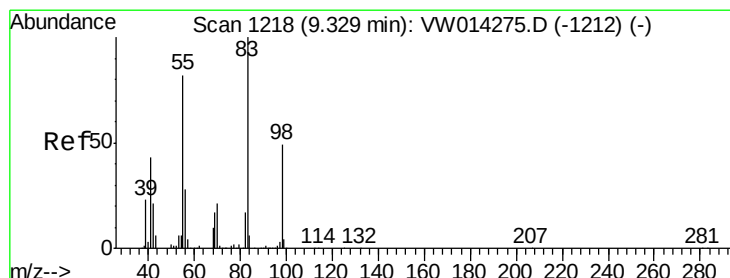
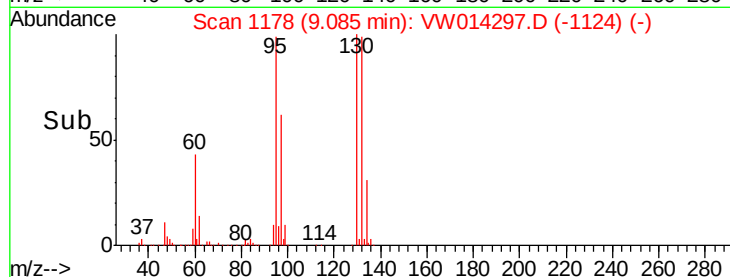
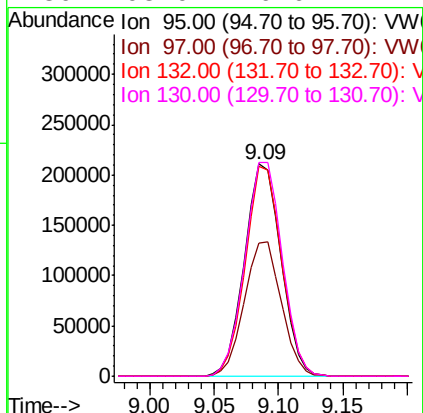
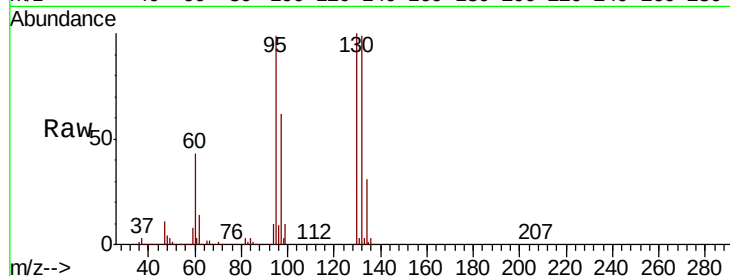




#35
 Trichloroethene
 Concen: 23.239 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. -0.00 min
 Lab File: VW014297.D
 Acq: 11 Dec 2019 11:25

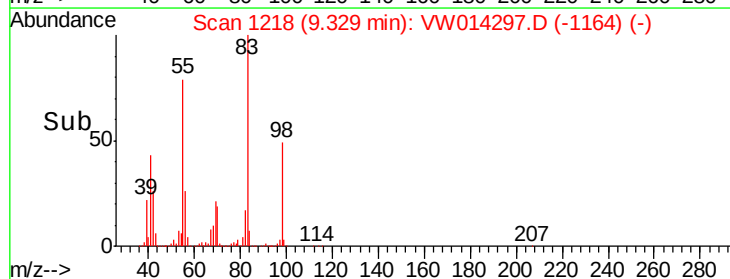
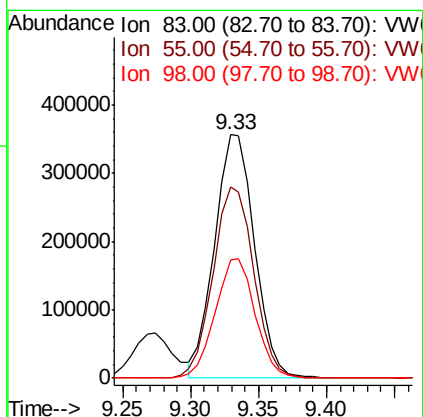
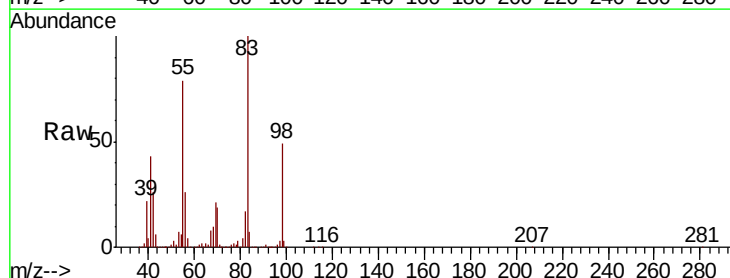
Instrument :
 MSVOA_W
 ClientSampleId :

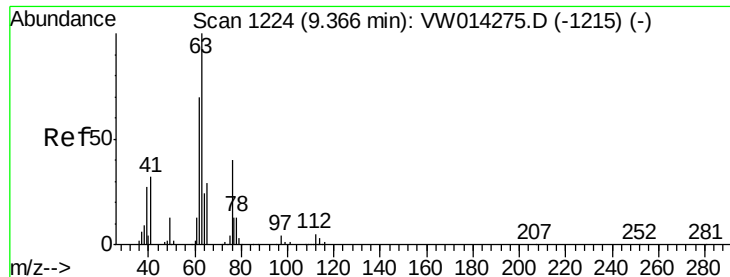
Tot Ion	95	Resp	414078
Ion	Ratio	Lower	Upper
95	100		
97	64.1	45.1	83.9
132	98.1	73.7	136.9
130	103.0	76.6	142.2



#36
 Methylcyclohexane
 Concen: 24.201 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VW014297.D
 Acq: 11 Dec 2019 11:25

Tgt Ion	83	Resp	724611
Ion	Ratio	Lower	Upper
83	100		
55	81.1	59.8	89.8
98	49.1	39.5	59.3





#40

1,2-Dichloropropane

Concen: 22.914 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

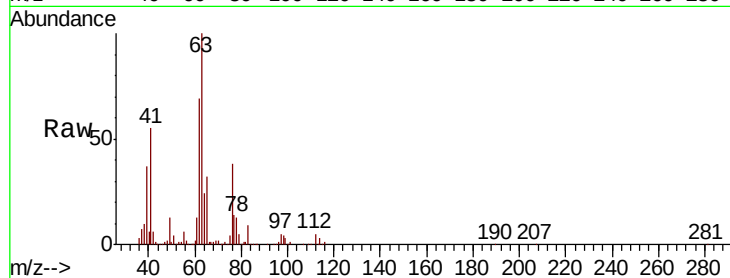
ClientSampleId :

Tot Ion: 63 Resp: 409954

Ion Ratio Lower Upper

63 100

112 4.6 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V

9.37

200000

150000

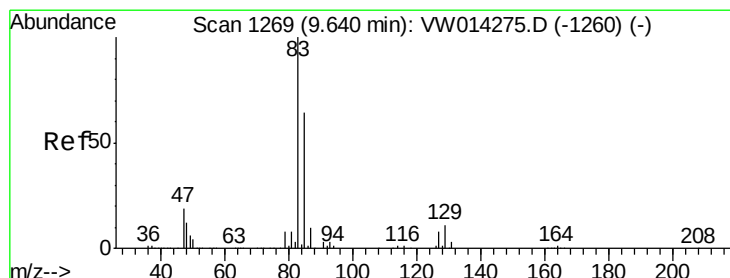
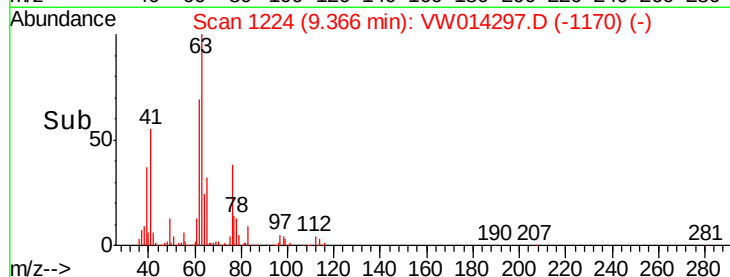
100000

50000

0

9.30 9.35 9.40

Time-->



#41

Bromodichloromethane

Concen: 22.334 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

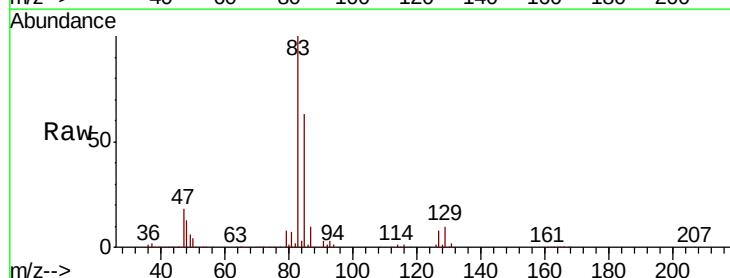
Tgt Ion: 83 Resp: 485600

Ion Ratio Lower Upper

83 100

85 63.4 45.1 83.7

127 8.2 7.4 11.0



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

9.64

300000

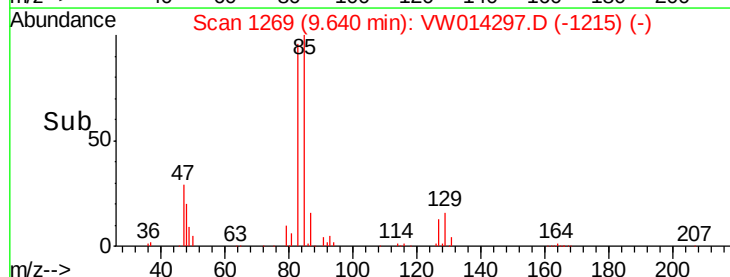
200000

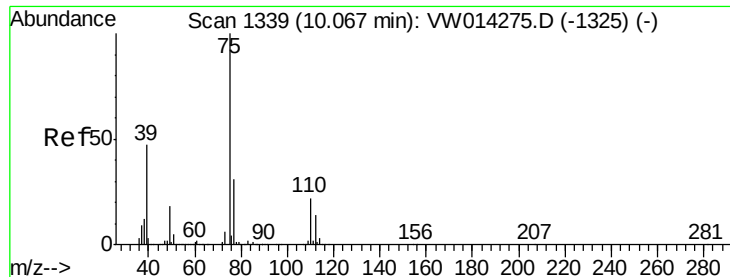
100000

0

9.55 9.60 9.65 9.70 9.75

Time-->





#42

cis-1,3-Dichloropropene

Concen: 22.843 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

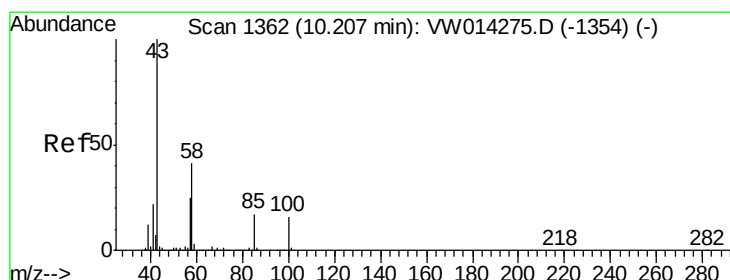
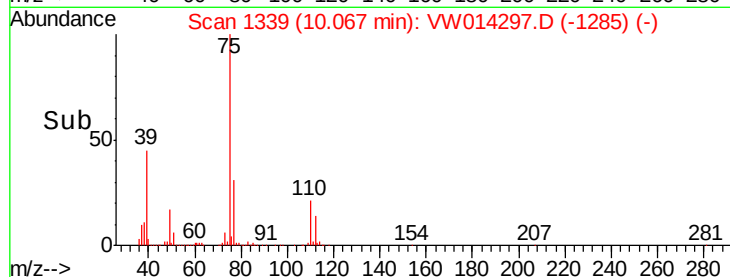
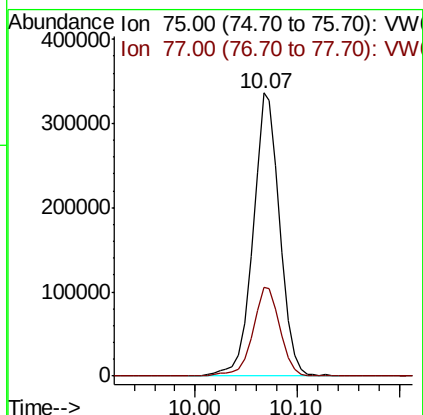
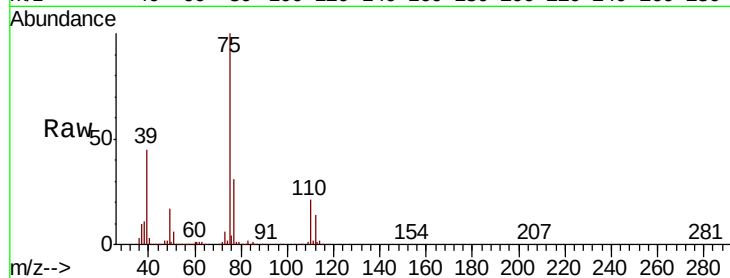
ClientSampled :

Tot Ion: 75 Resp: 612032

Ion Ratio Lower Upper

75 100

77 31.4 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 39.681 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

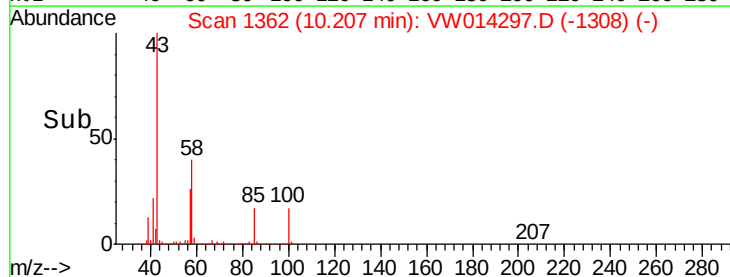
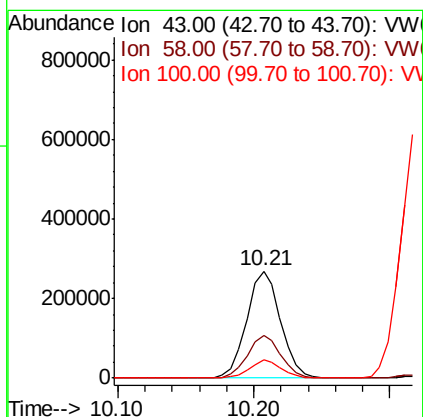
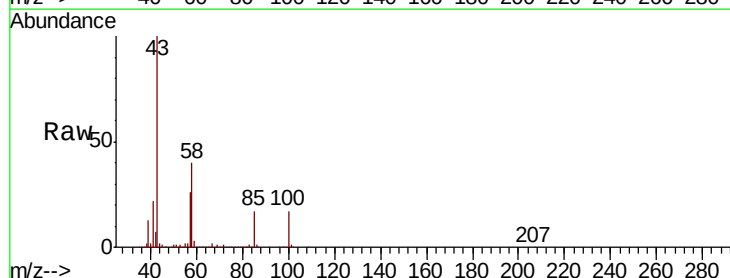
Tgt Ion: 43 Resp: 468143

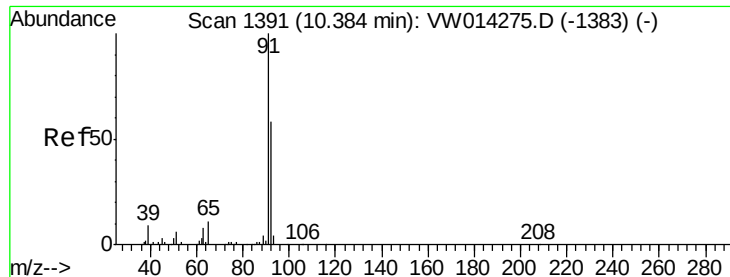
Ion Ratio Lower Upper

43 100

58 39.7 32.6 49.0

100 16.1 13.8 20.8





#44

Toluene

Concen: 23.584 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

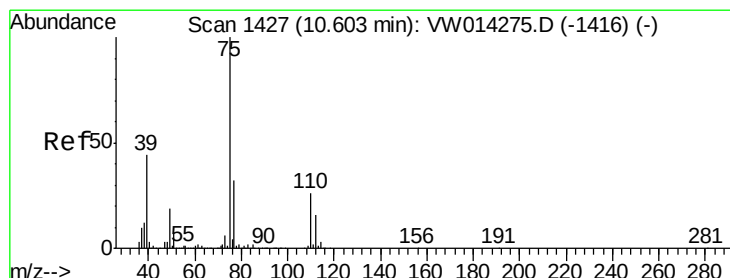
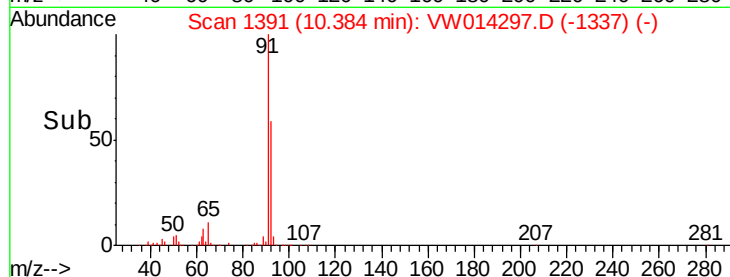
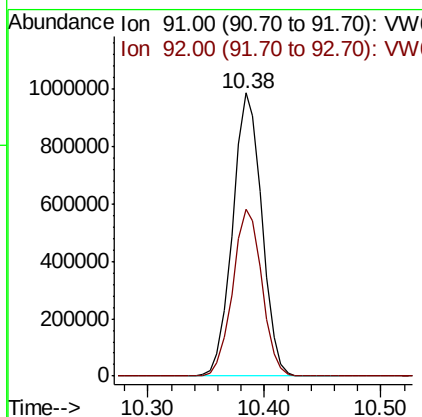
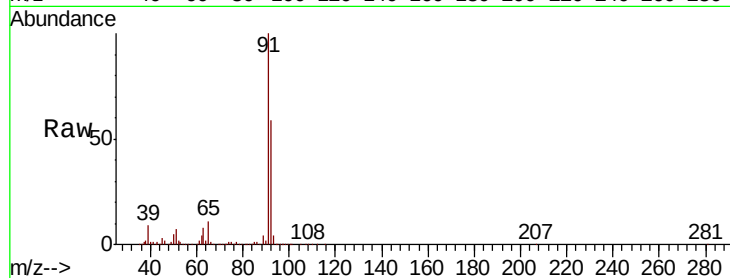
ClientSampled :

Tot Ion: 91 Resp: 1721856

Ion Ratio Lower Upper

91 100

92 59.1 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 22.112 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014297.D

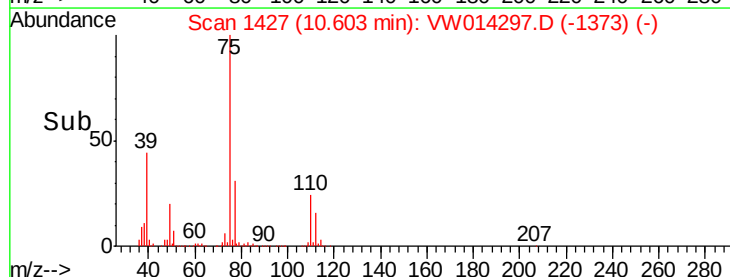
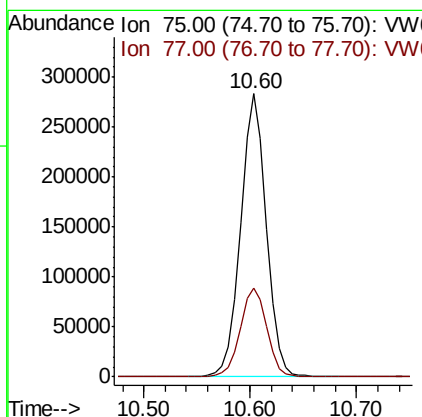
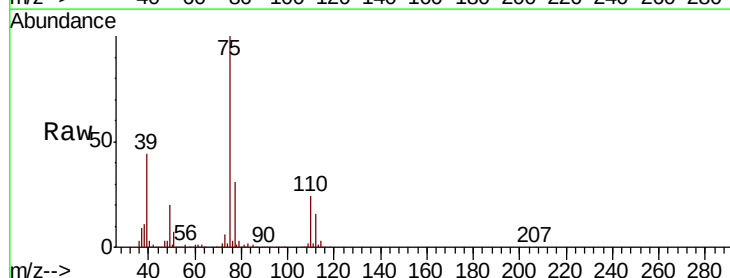
Acq: 11 Dec 2019 11:25

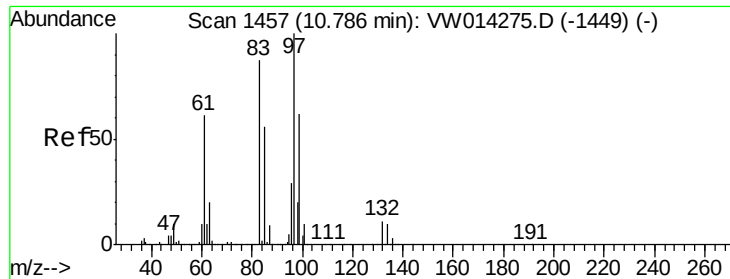
Tgt Ion: 75 Resp: 479569

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 20.637 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 97 Resp: 276674

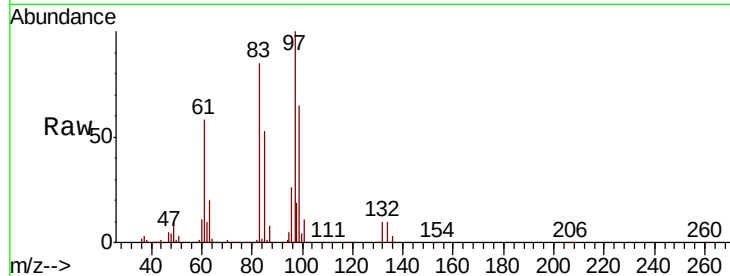
Ion Ratio Lower Upper

97 100

83 85.1 58.9 109.5

85 53.2 38.1 70.9

99 65.0 46.5 86.3

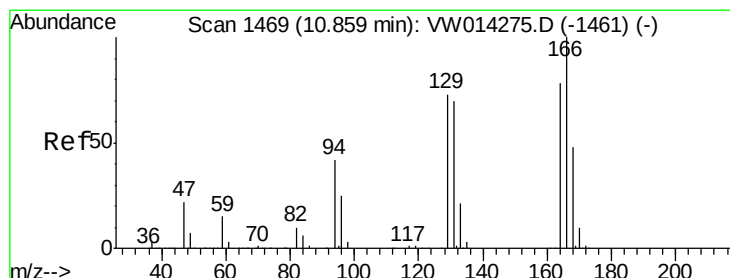
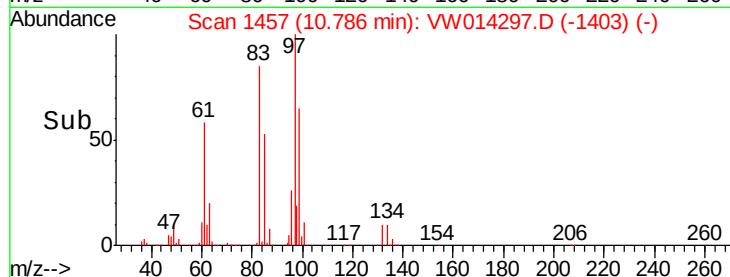
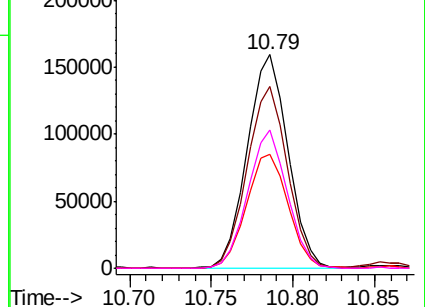


Abundance Ion 97.00 (96.70 to 97.70): VW

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



#47

Tetrachloroethene

Concen: 22.765 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Tgt Ion: 164 Resp: 338087

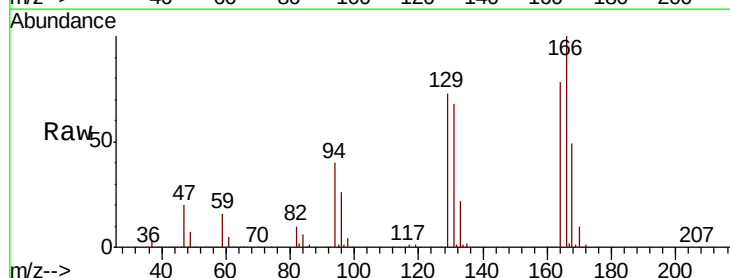
Ion Ratio Lower Upper

164 100

129 93.6 60.6 112.6

131 87.9 59.1 109.7

166 128.6 90.8 168.6

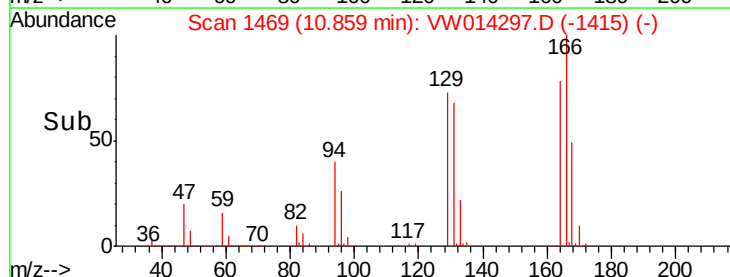
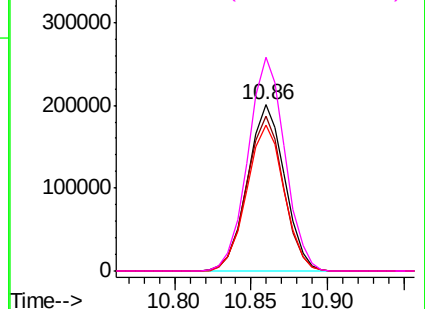


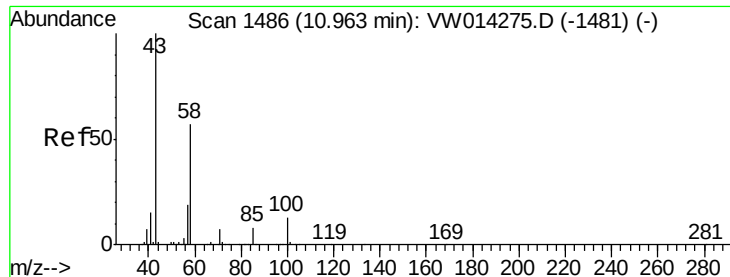
Abundance Ion 164.00 (163.70 to 164.70): V

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

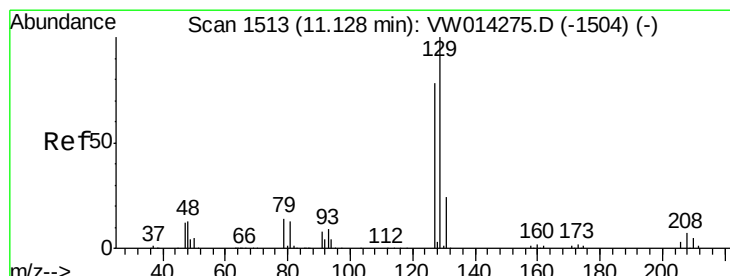
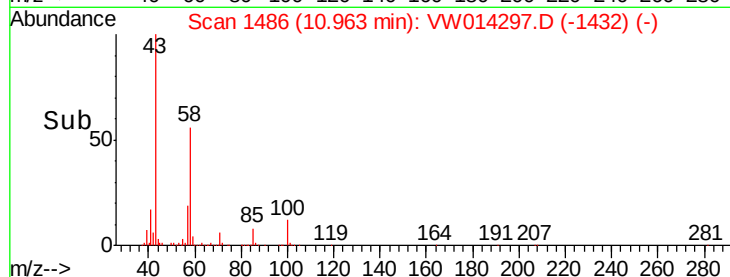
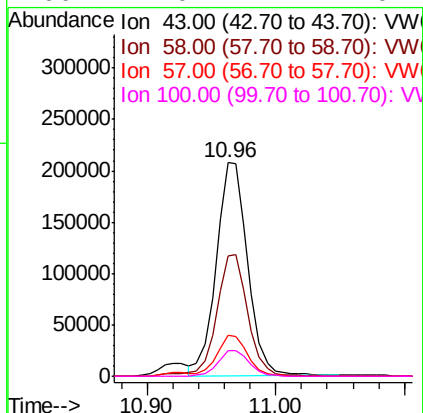
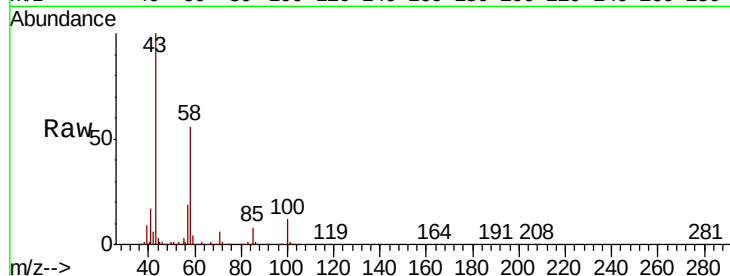




#49
2-Hexanone
Concen: 42.281 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

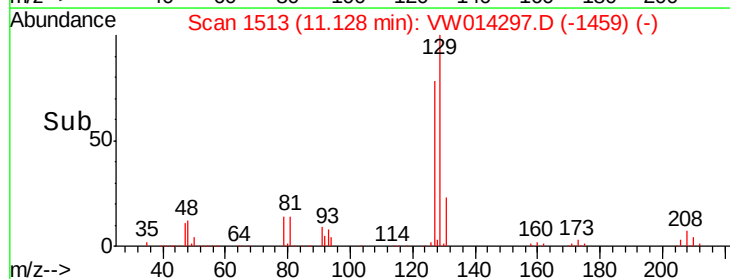
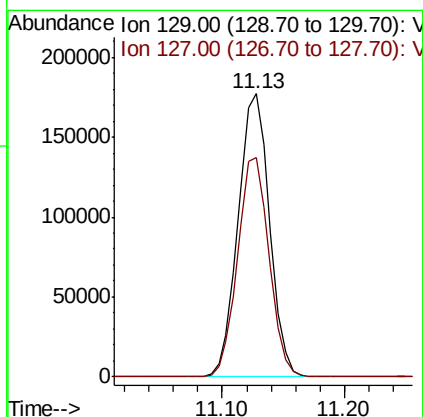
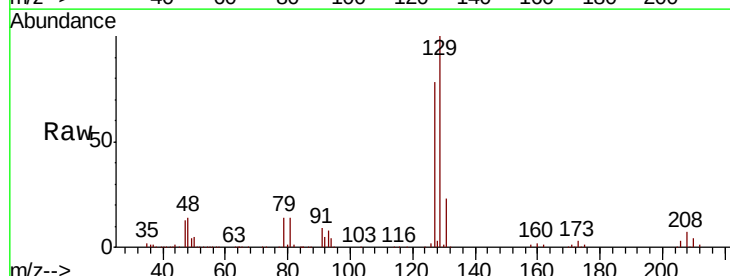
Instrument :
MSVOA_W
ClientSampleId :

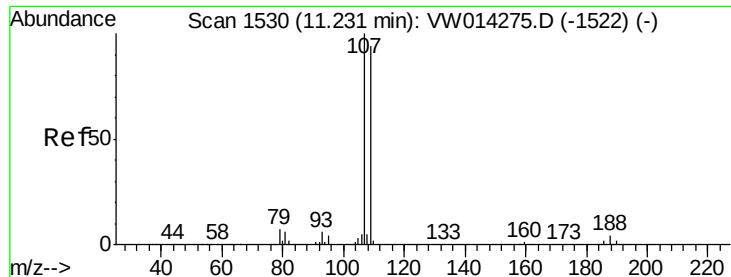
Tot Ion	Ratio	Lower	Upper
43	100		
58	55.7	44.4	66.6
57	18.9	16.5	24.7
100	12.0	11.1	16.7



#50
Dibromochloromethane
Concen: 20.993 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	54.9	102.1

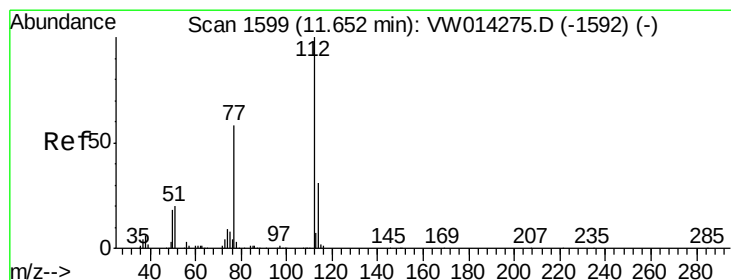
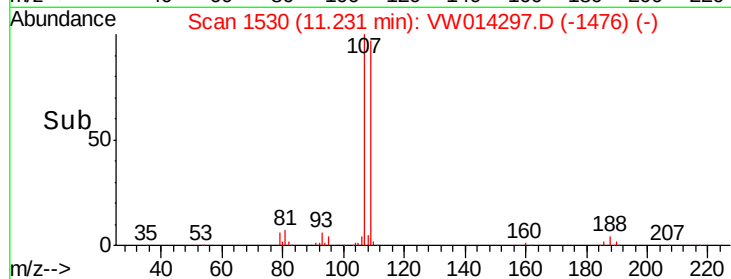
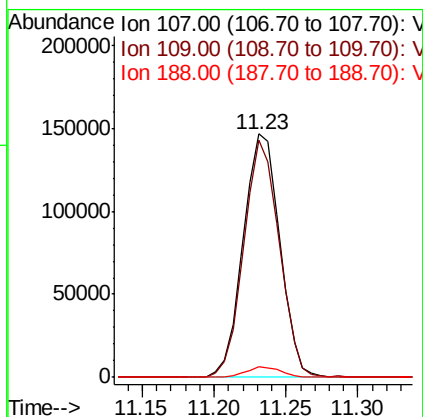
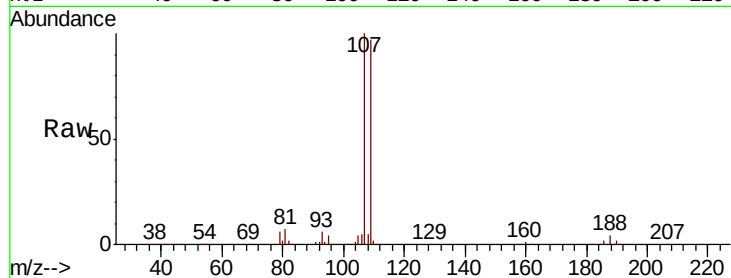




#51
1,2-Dibromoethane
Concen: 20.328 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

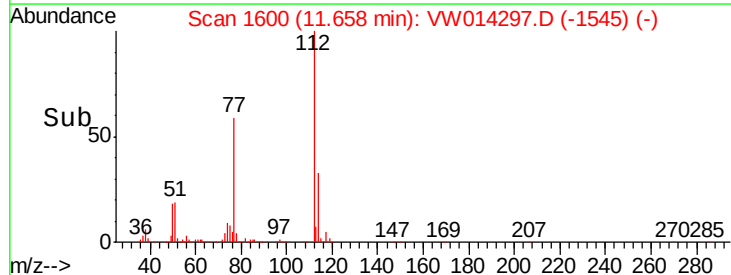
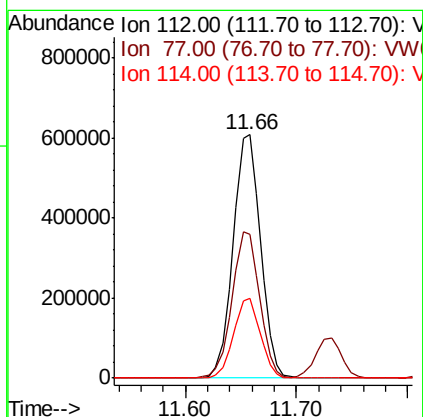
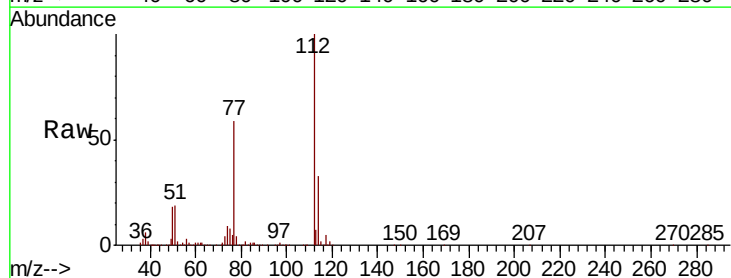
Instrument :
MSVOA_W
ClientSampleId :

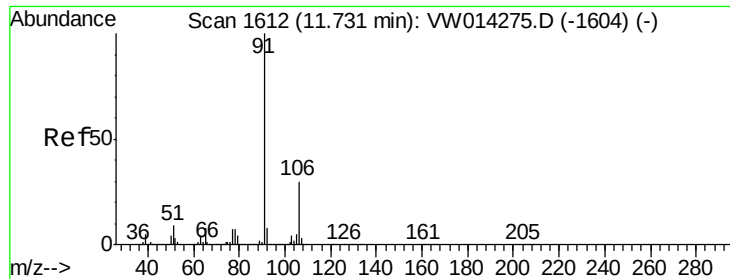
Tot Ion	Ratio	Lower	Upper
107	100		
109	97.3	64.6	120.0
188	4.1	3.9	5.9



#52
Chlorobenzene
Concen: 21.999 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

Tgt Ion	Ratio	Lower	Upper
112	100		
77	59.1	42.2	63.4
114	33.0	22.5	41.9

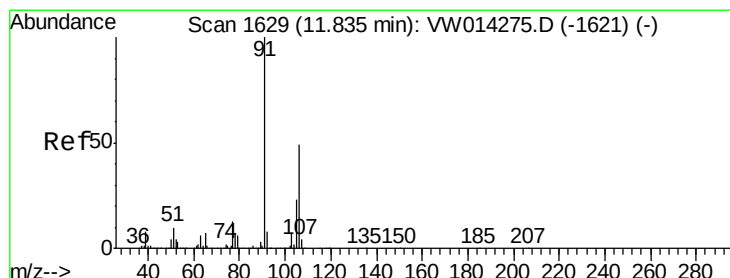
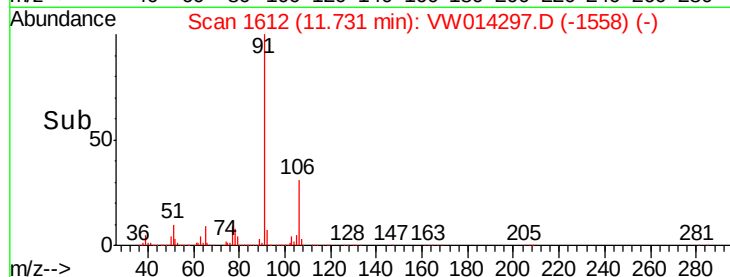
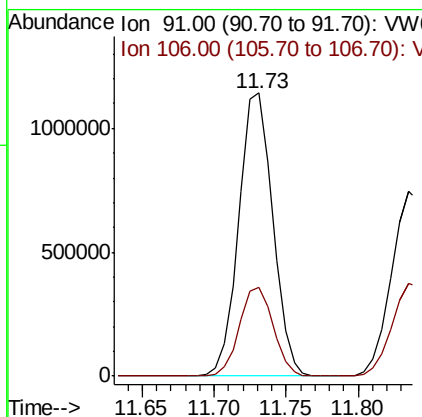
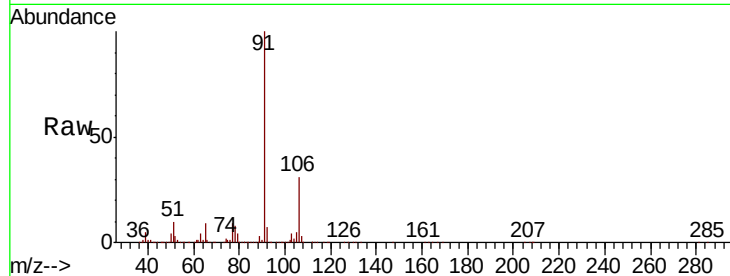




#53
Ethylbenzene
Concen: 23.675 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

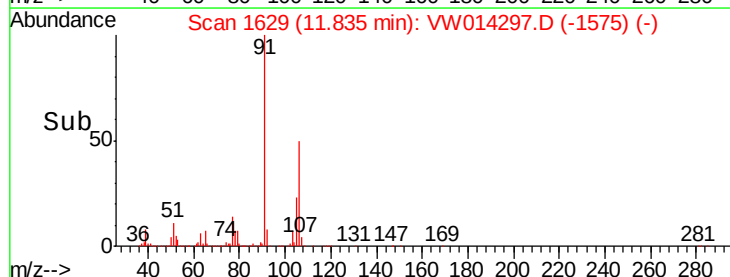
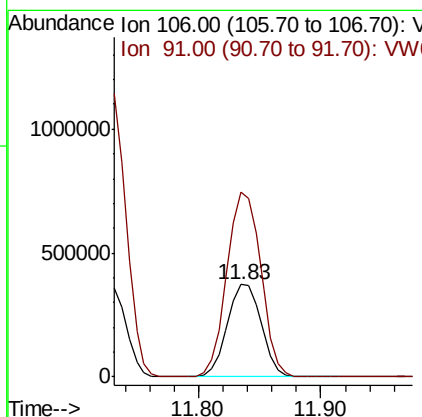
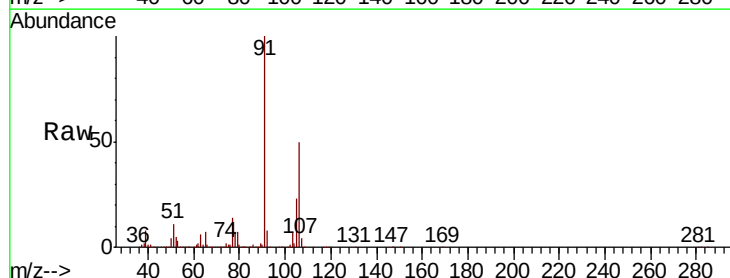
Instrument :
MSVOA_W
ClientSampleId :

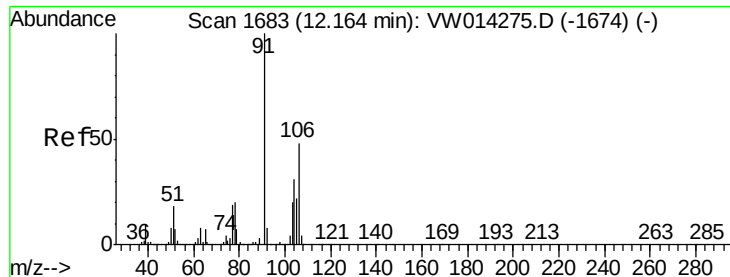
Tot Ion: 91 Resp: 1875563
Ion Ratio Lower Upper
91 100
106 31.5 22.3 41.5



#54
m,p-Xylene
Concen: 23.583 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW014297.D
Acq: 11 Dec 2019 11:25

Tgt Ion: 106 Resp: 718688
Ion Ratio Lower Upper
106 100
91 199.7 138.7 257.5





#55

o-xylene

Concen: 23.368 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

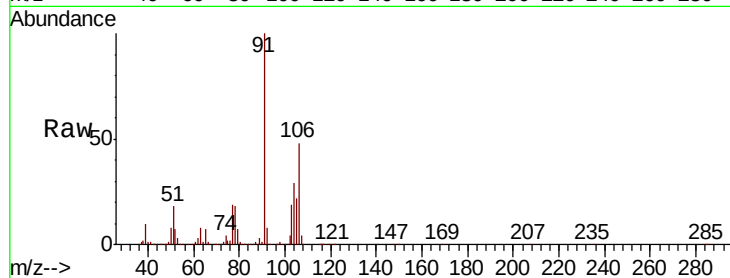
ClientSampled :

Tot Ion:106 Resp: 675457

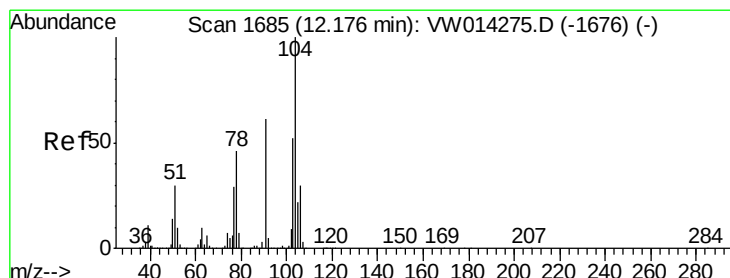
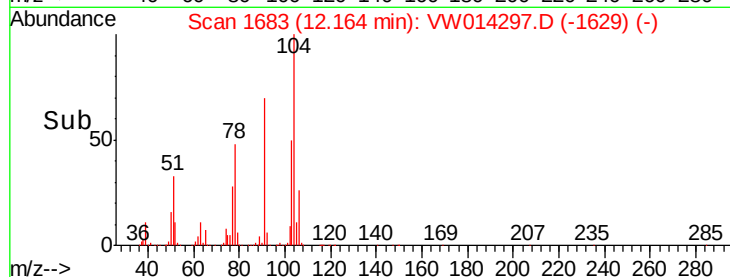
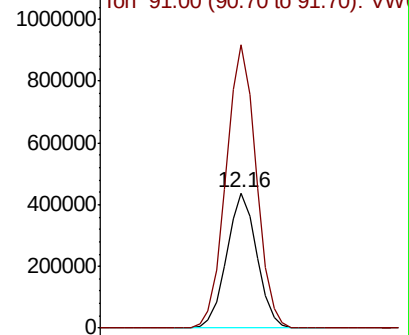
Ion Ratio Lower Upper

106 100

91 209.5 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V



#56

Styrene

Concen: 23.351 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW014297.D

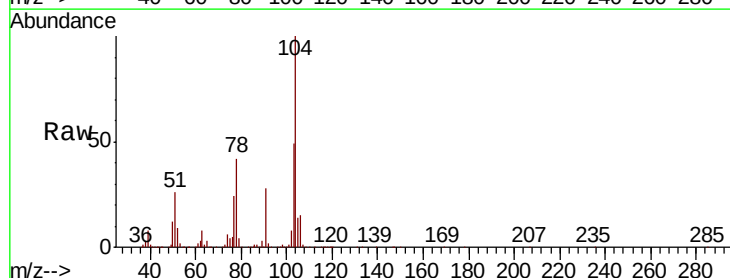
Acq: 11 Dec 2019 11:25

Tgt Ion:104 Resp: 1154687

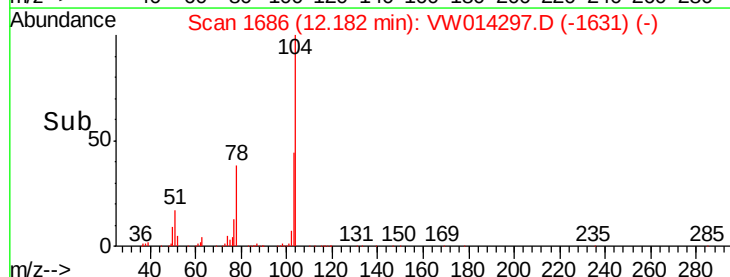
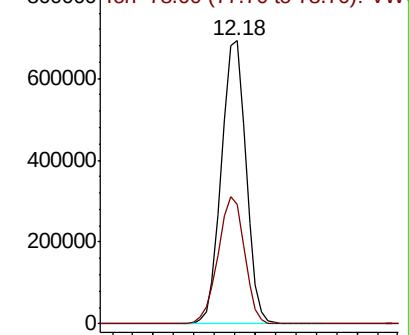
Ion Ratio Lower Upper

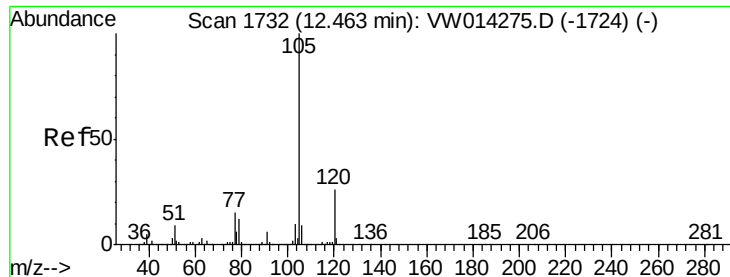
104 100

78 42.3 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V





#57

Isopropylbenzene

Concen: 24.234 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

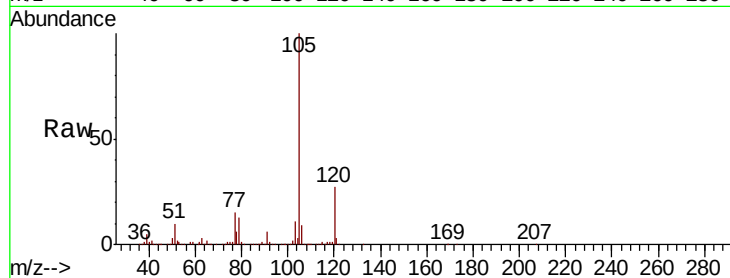
Tot Ion:105 Resp: 1818519

Ion Ratio Lower Upper

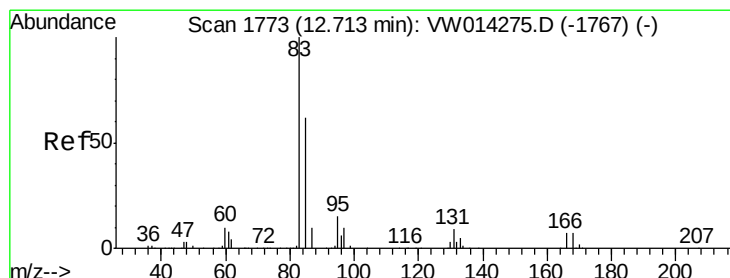
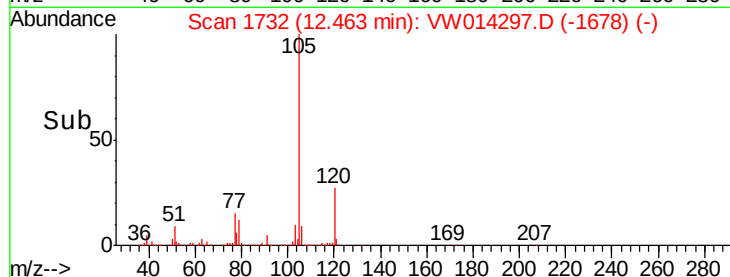
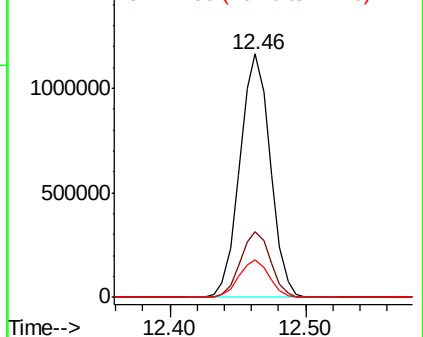
105 100

120 26.7 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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 19.626 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

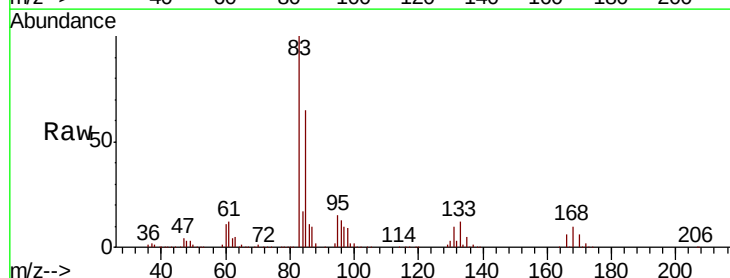
Tgt Ion: 83 Resp: 326581

Ion Ratio Lower Upper

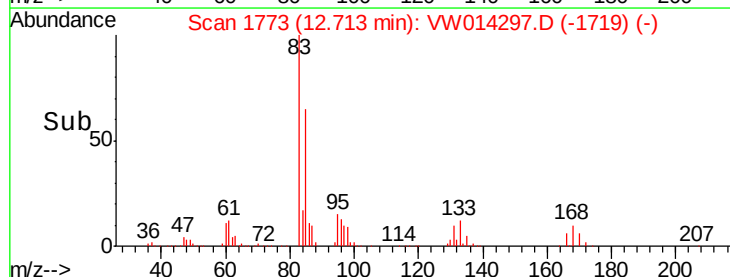
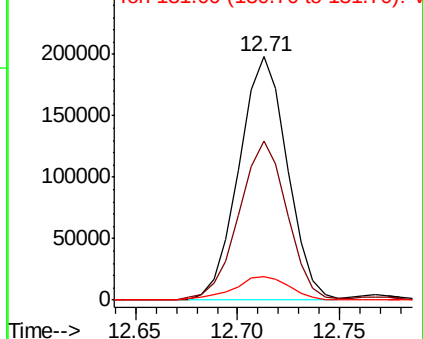
83 100

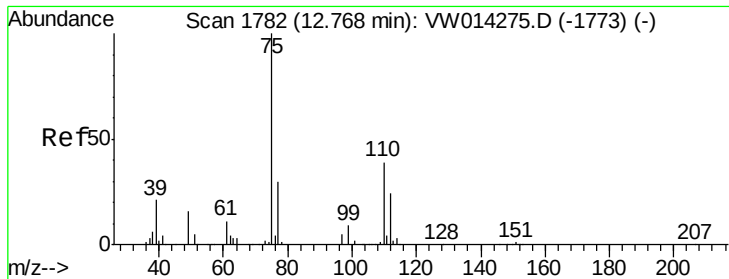
85 65.4 43.7 81.1

131 9.7 8.2 12.2



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 85.00 (84.70 to 85.70): V
Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 19.574 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

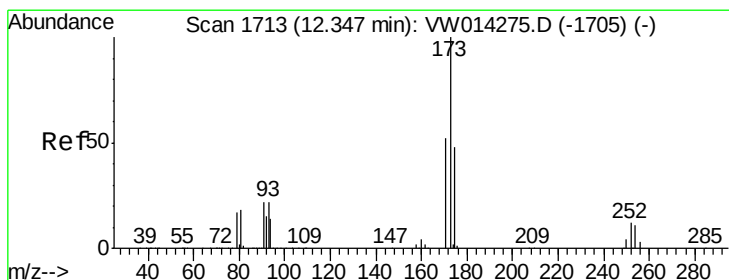
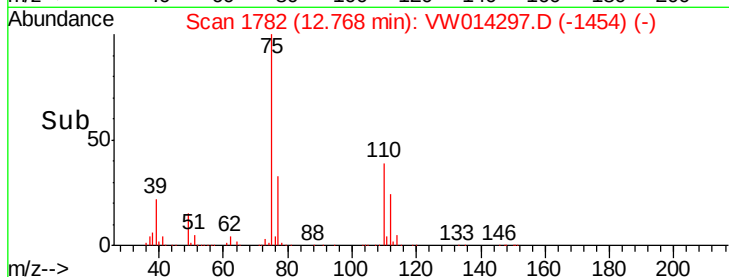
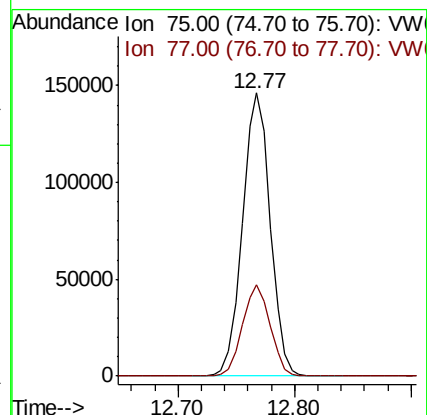
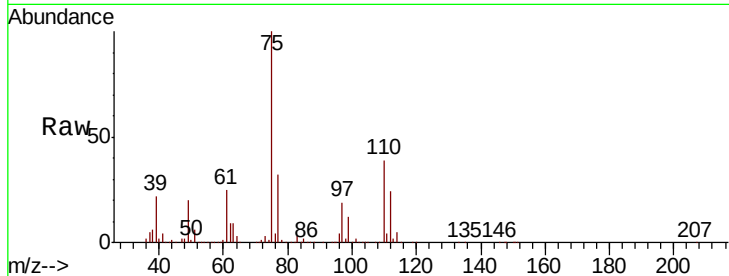
ClientSampleId :

Tot Ion: 75 Resp: 242027

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



#62

Bromoform

Concen: 19.174 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

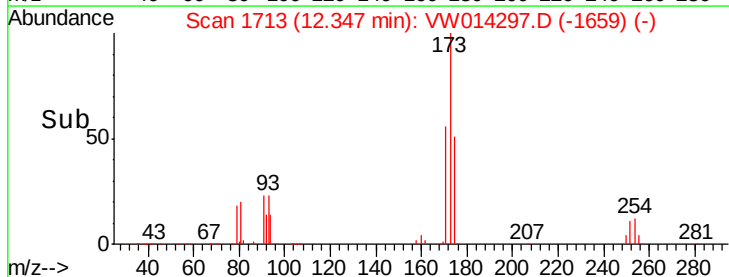
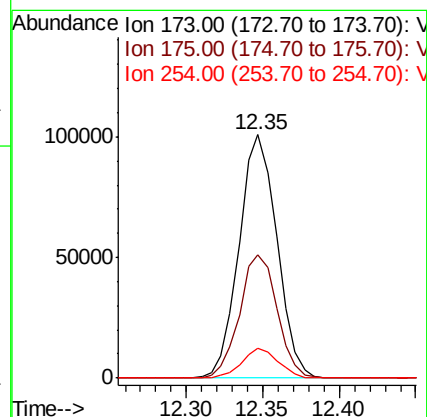
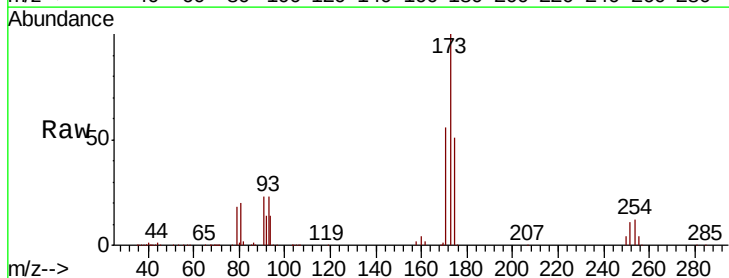
Tgt Ion: 173 Resp: 173877

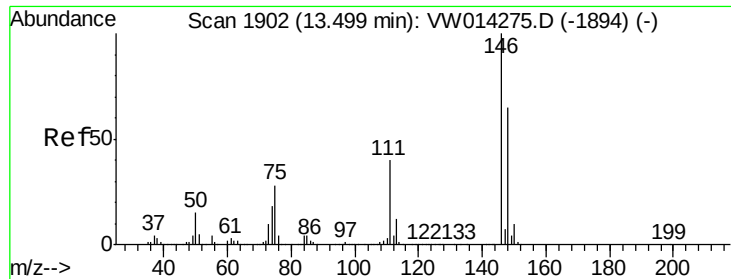
Ion Ratio Lower Upper

173 100

175 50.2 38.8 58.2

254 11.8 9.4 14.0





#63

1,3-Dichlorobenzene

Concen: 21.990 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

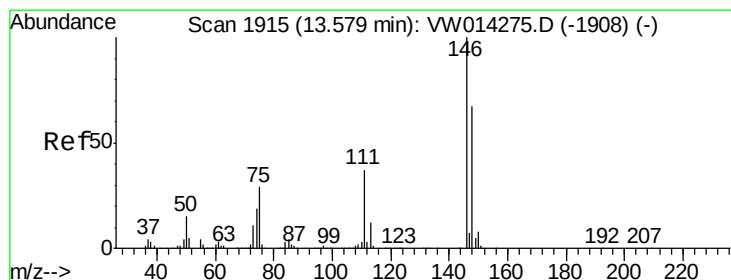
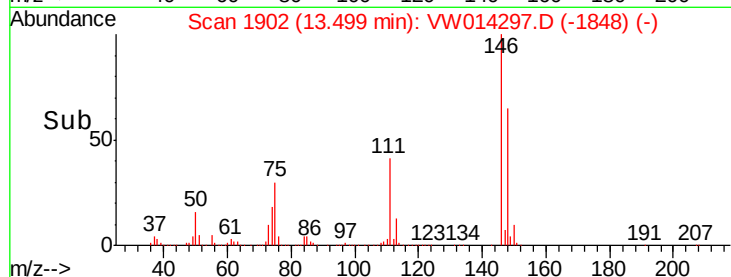
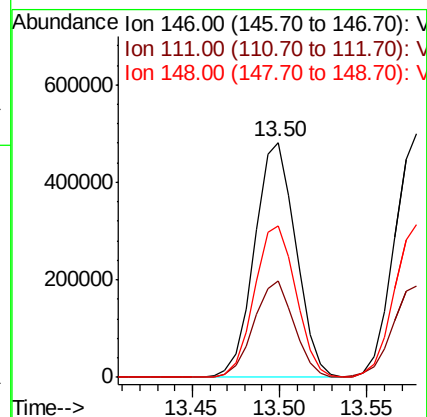
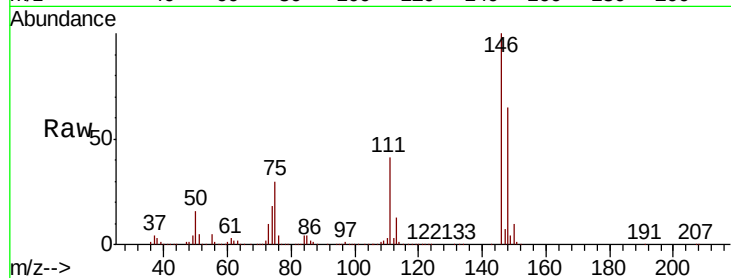
Tot Ion:146 Resp: 789726

Ion Ratio Lower Upper

146 100

111 41.1 26.0 48.2

148 64.5 44.7 82.9



#64

1,4-Dichlorobenzene

Concen: 21.697 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

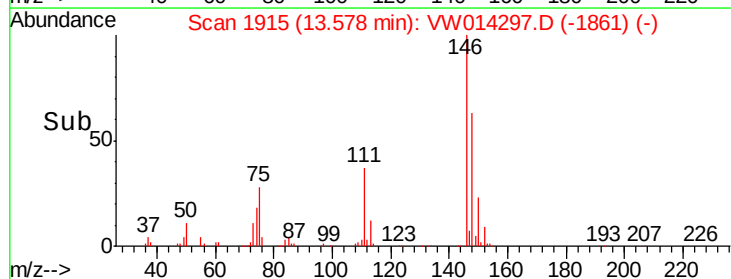
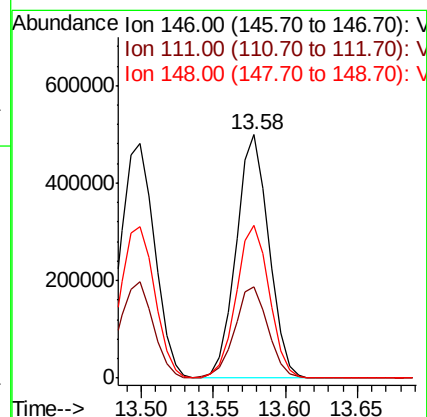
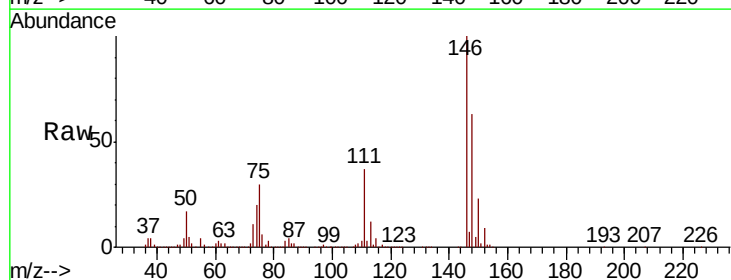
Tgt Ion:146 Resp: 791679

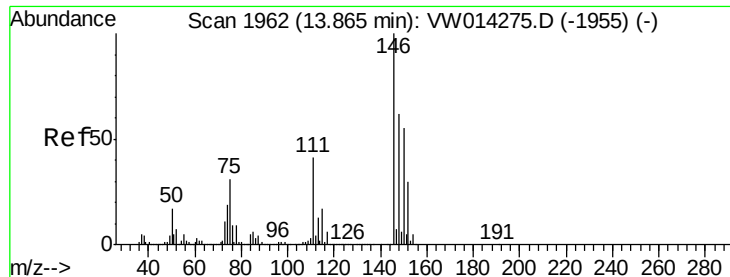
Ion Ratio Lower Upper

146 100

111 37.4 24.9 46.3

148 62.5 43.9 81.5





#65

1,2-Dichlorobenzene

Concen: 21.513 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

ClientSampled :

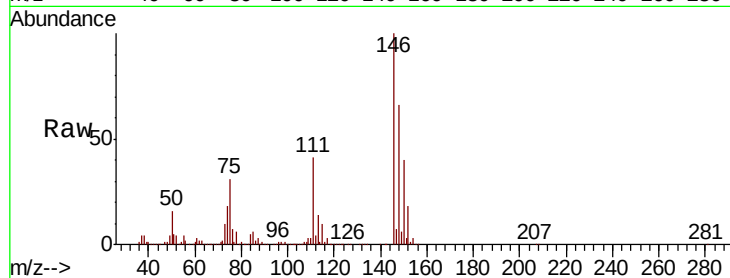
Tot Ion:146 Resp: 718468

Ion Ratio Lower Upper

146 100

111 41.3 30.5 45.7

148 66.4 49.4 74.2

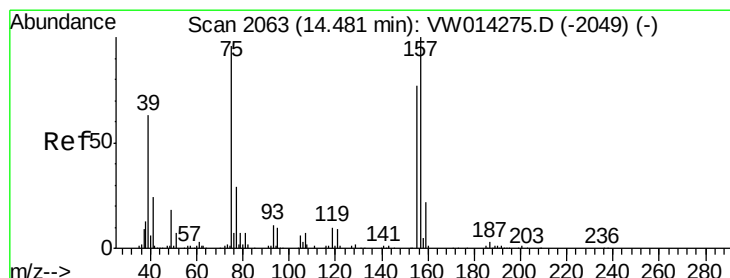
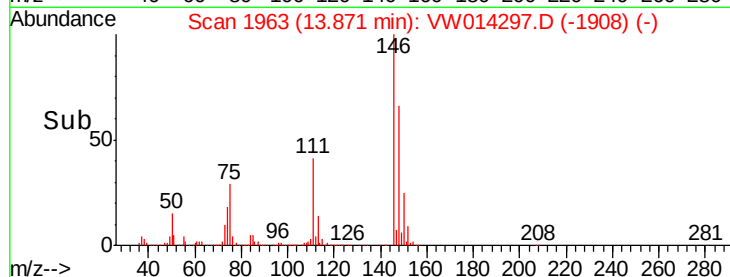
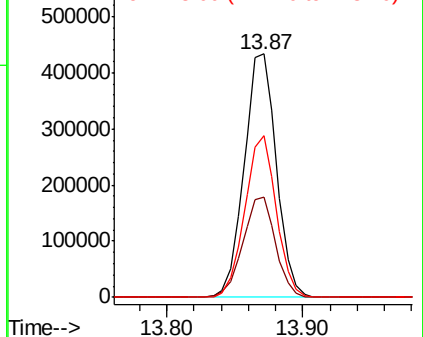


Abundance

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: 18.710 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

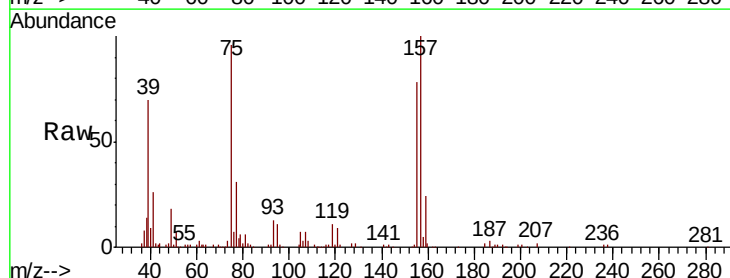
Tgt Ion: 75 Resp: 48201

Ion Ratio Lower Upper

75 100

157 104.7 96.9 145.3

155 81.7 82.9 124.3#

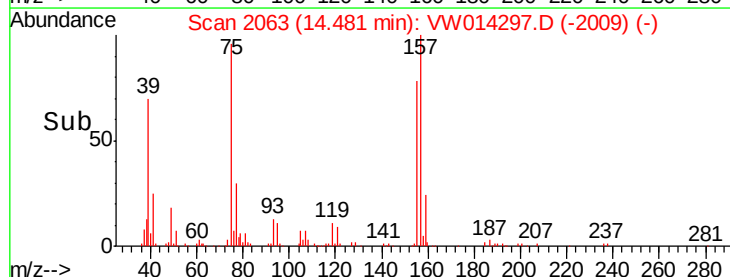
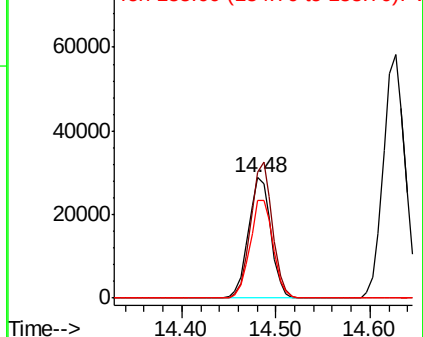


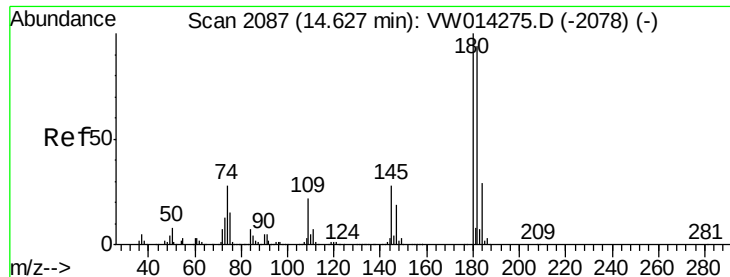
Abundance

Ion 75.00 (74.70 to 75.70): V

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

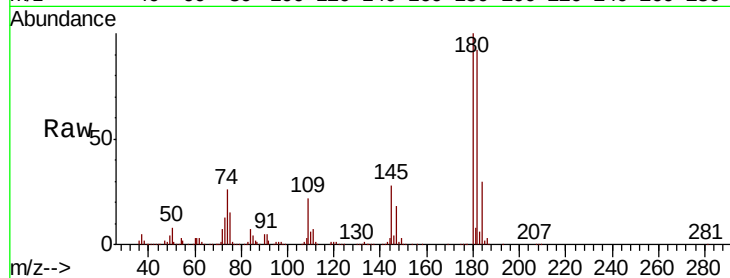




#67
 1,3,5-Trichlorobenzene
 Concen: 22.892 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014297.D
 Acq: 11 Dec 2019 11:25

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:	180	Resp:	591480
Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.2	114.2
184	30.2	24.3	36.5
145	28.4	21.9	32.9



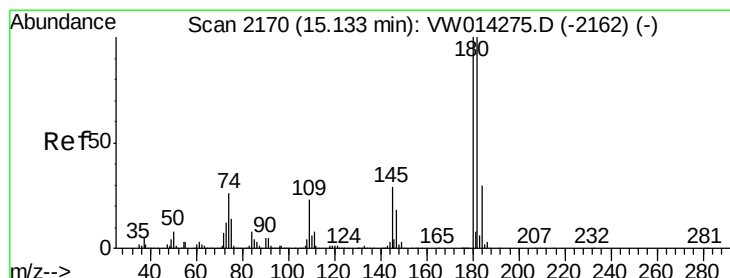
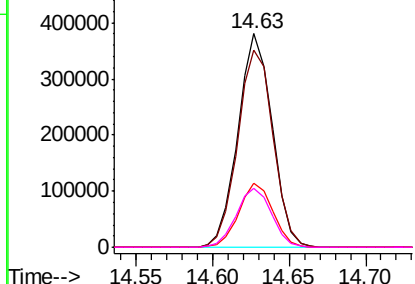
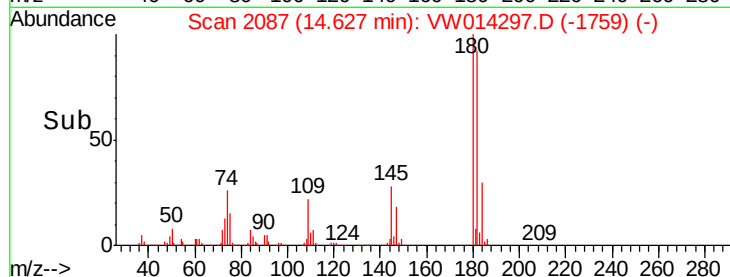
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

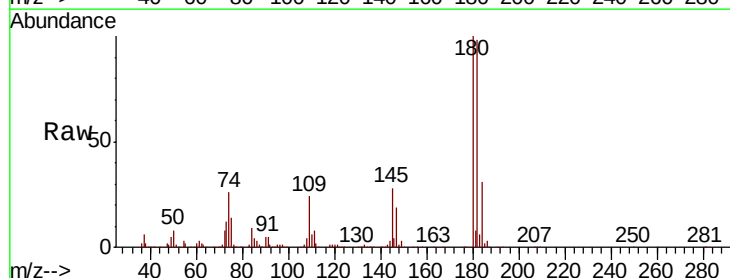
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 22.059 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014297.D
 Acq: 11 Dec 2019 11:25

Tgt Ion:	180	Resp:	444325
Ion	Ratio	Lower	Upper
180	100		
182	96.3	75.8	113.8
145	29.2	22.4	33.6

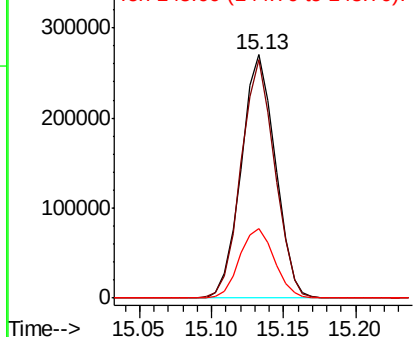
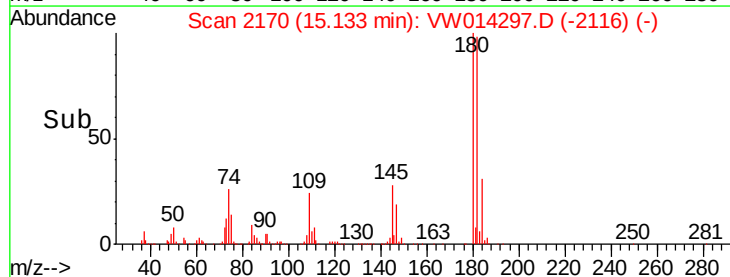


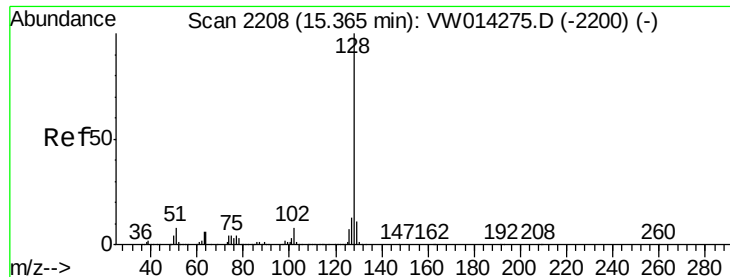
Abundance

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: 20.441 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

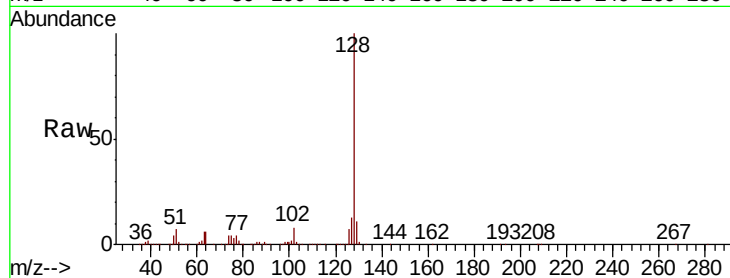
Tot Ion:128 Resp: 774305

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

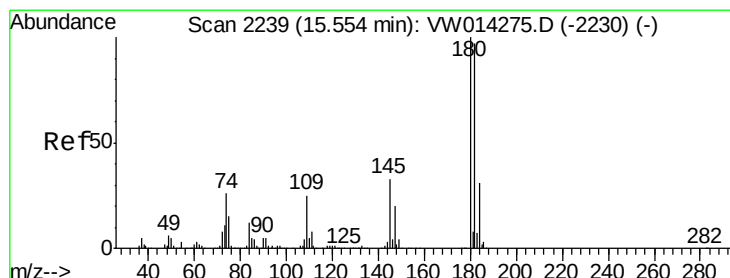
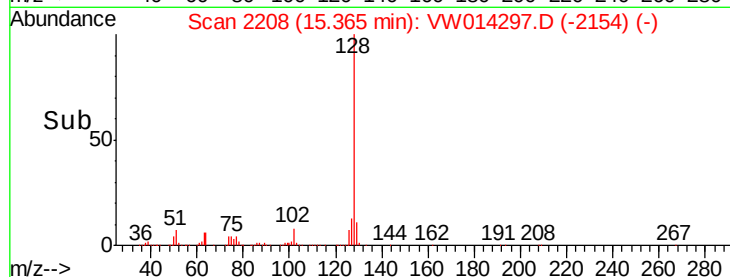
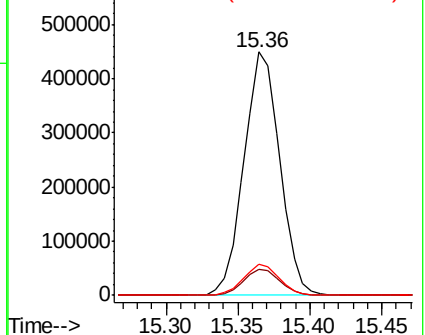
127 12.7 10.4 15.6



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: 21.355 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014297.D

Acq: 11 Dec 2019 11:25

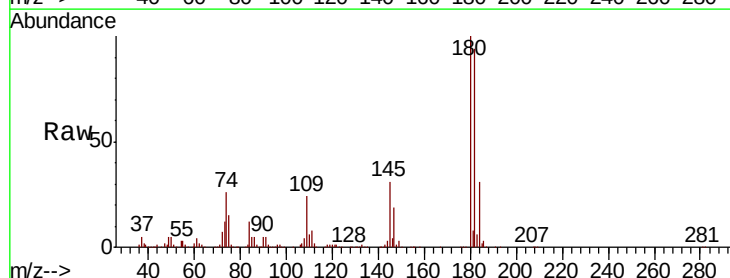
Tgt Ion:180 Resp: 403367

Ion Ratio Lower Upper

180 100

182 96.0 75.8 113.6

145 31.4 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

