

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120219\
 Data File : VW014208.D
 Acq On : 02 Dec 2019 17:13
 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 03 10:08:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 03 10:03:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	283616	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	285937	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	180073	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	74448	16.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	65.80%
7) Chloroethane-d5	2.89	69	69221	18.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.48%
10) 1,1-Dichloroethene-d2	4.03	63	179100	19.29	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	77.16%
20) 2-Butanone-d5	7.07	46	81233	61.79	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	123.58%
24) Chloroform-d	7.65	84	201687	23.13	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.52%
26) 1,2-Dichloroethane-d4	8.31	65	108595	24.77	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.08%
29) Benzene-d6	8.27	84	389305	19.19	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	76.76%
33) 1,2-Dichloropropane-d6	9.27	67	124039	20.87	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	83.48%
37) Toluene-d8	10.32	98	363880	18.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	75.64%
38) trans-1,3-Dichloropropene-	10.58	79	55061	21.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.52%
39) 2-Hexanone-d5	10.92	63	66351	58.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.76%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	122524	27.30	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	109.20%
61) 1,2-Dichlorobenzene-d4	13.85	152	144595	19.99	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	79.96%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	66073	19.589	ug/L 94
3) Chloromethane	2.21	50	63054	21.046	ug/L 97
5) Vinyl chloride	2.36	62	110211	23.560	ug/L 95
6) Bromomethane	2.78	94	70335	24.285	ug/L 98
8) Chloroethane	2.92	64	69650	25.031	ug/L 98
9) Trichlorofluoromethane	3.26	101	66955	20.990	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	119264	25.321	ug/L 97
12) 1,1-Dichloroethene	4.04	96	114956	24.010	ug/L 92
13) Acetone	4.12	43	74312	55.552	ug/L 99
14) Carbon disulfide	4.39	76	306788	22.513	ug/L 100
15) Methyl Acetate	4.67	43	69321	32.029	ug/L 98
16) Methylene chloride	4.92	84	131123	24.015	ug/L 94
17) Methyl tert-butyl Ether	5.42	73	163322	26.442	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	122603	24.556	ug/L 99
19) 1,1-Dichloroethane	6.21	63	224047	26.641	ug/L 99
21) 2-Butanone	7.17	43	103514	60.232	ug/L 99
22) cis-1,2-Dichloroethene	7.17	96	136681	26.015	ug/L 96

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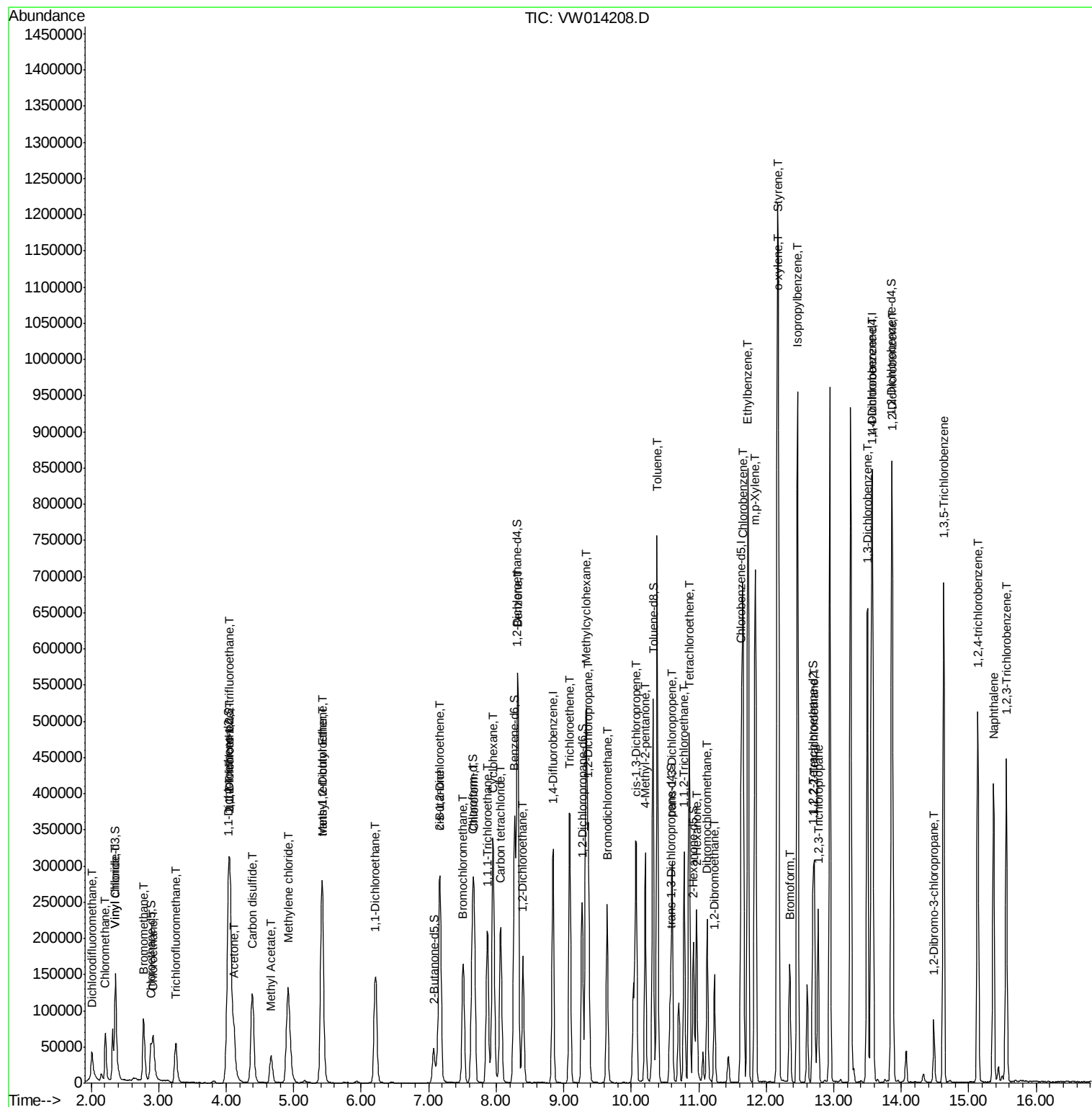
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	65487	28.395	ug/L	93
25) Chloroform	7.67	83	226107	27.378	ug/L	99
27) 1,2-Dichloroethane	8.40	62	152288	30.457	ug/L	95
30) Cyclohexane	7.95	56	197895	21.626	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	173276	24.181	ug/L	98
32) Carbon tetrachloride	8.07	117	168606	24.511	ug/L	99
34) Benzene	8.32	78	511776	24.401	ug/L	100
35) Trichloroethene	9.09	95	133790	23.914	ug/L	99
36) Methylcyclohexane	9.34	83	221267	22.058	ug/L	99
40) 1,2-Dichloropropane	9.37	63	130081	25.764	ug/L	100
41) Bromodichloromethane	9.64	83	166013	27.198	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	202841	25.458	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	198528	59.555	ug/L	100
44) Toluene	10.38	91	560890	24.528	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	167651	26.608	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	105954	28.561	ug/L	98
47) Tetrachloroethene	10.86	164	117701	23.603	ug/L	99
49) 2-Hexanone	10.96	43	146056	60.772	ug/L	97
50) Dibromochloromethane	11.13	129	122399	28.070	ug/L	98
51) 1,2-Dibromoethane	11.23	107	102332	28.431	ug/L	97
52) Chlorobenzene	11.65	112	362169	25.264	ug/L	96
53) Ethylbenzene	11.73	91	618549	24.650	ug/L	97
54) m,p-Xylene	11.84	106	240120	24.623	ug/L	99
55) o-xylene	12.16	106	232000	25.406	ug/L	97
56) Styrene	12.18	104	400857	25.985	ug/L	96
57) Isopropylbenzene	12.46	105	620402	24.710	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	132609	30.618	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	99634	30.587	ug/L	98
62) Bromoform	12.35	173	79356	26.891	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	298754	23.628	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	296424	23.728	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	277719	24.804	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	21801	28.591	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	228582	23.722	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	184869	24.400	ug/L	99
69) Naphthalene	15.36	128	356858	26.511	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	170442	25.490	ug/L	99

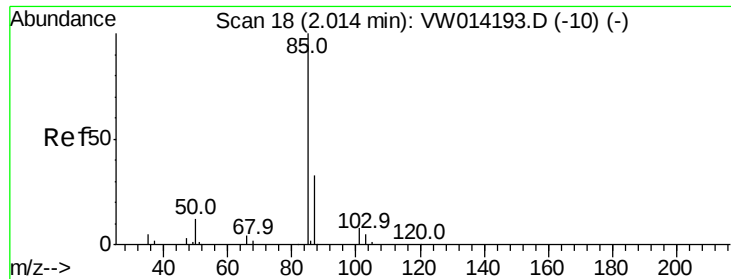
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 19.589 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

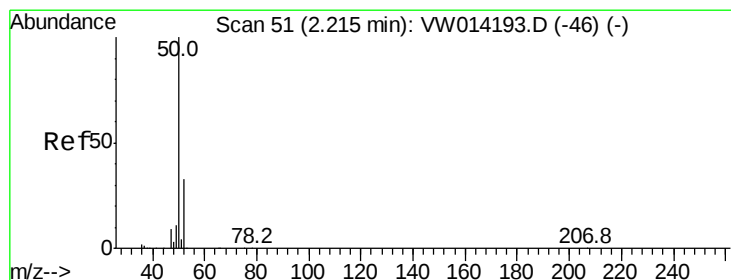
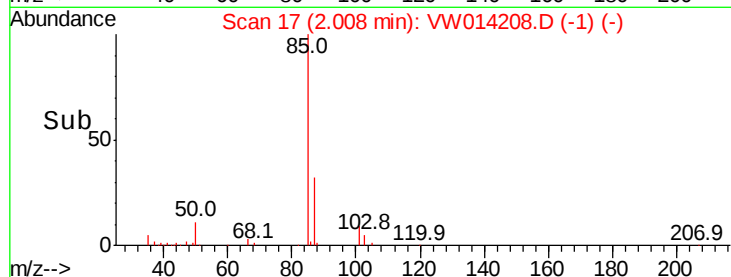
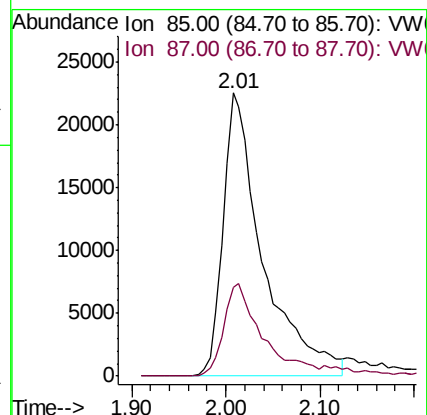
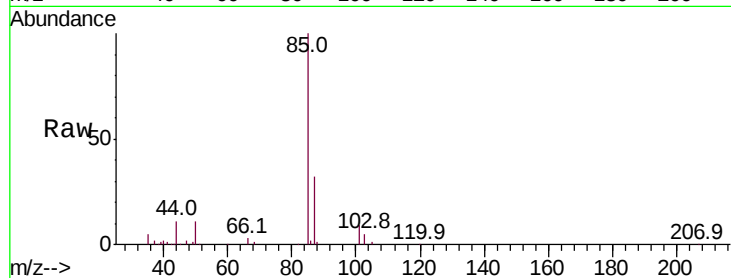
ClientSampleId :

Tot Ion: 85 Resp: 66073

Ion Ratio Lower Upper

85 100

87 28.2 22.1 41.1



#3

Chloromethane

Concen: 21.046 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014208.D

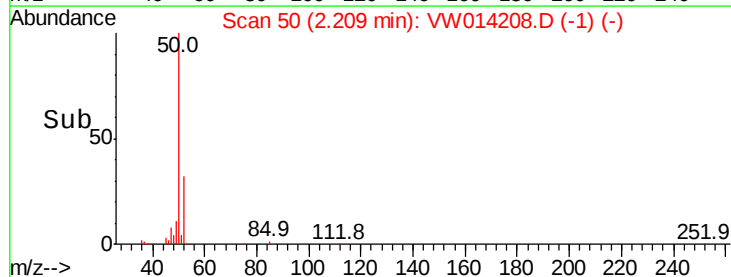
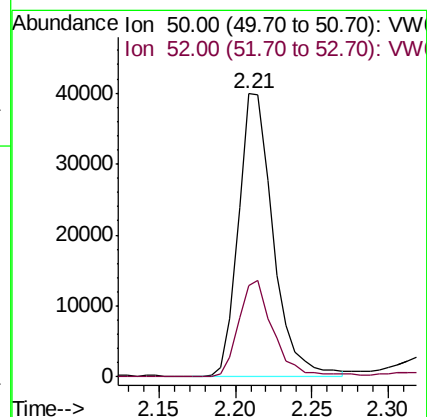
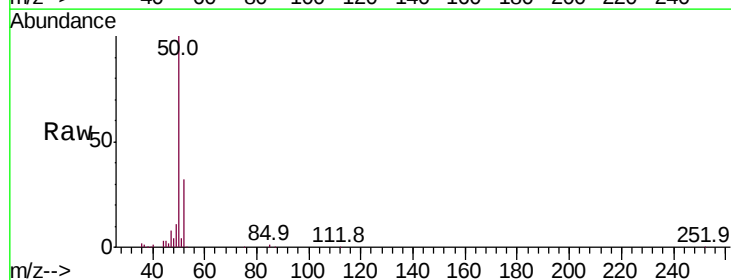
Acq: 02 Dec 2019 17:13

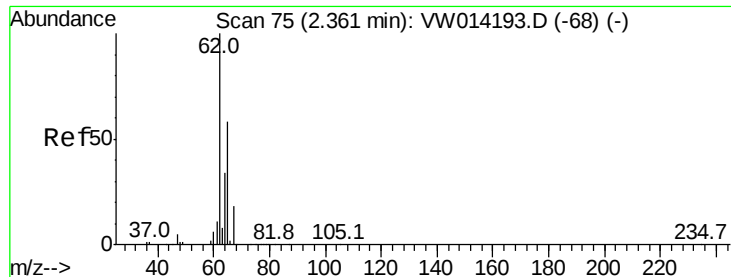
Tgt Ion: 50 Resp: 63054

Ion Ratio Lower Upper

50 100

52 32.1 23.8 44.2





#5

Vinyl chloride

Concen: 23.560 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

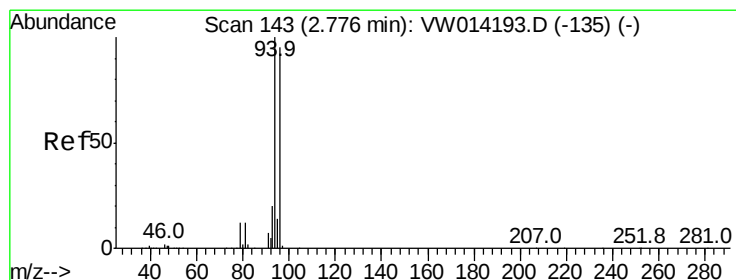
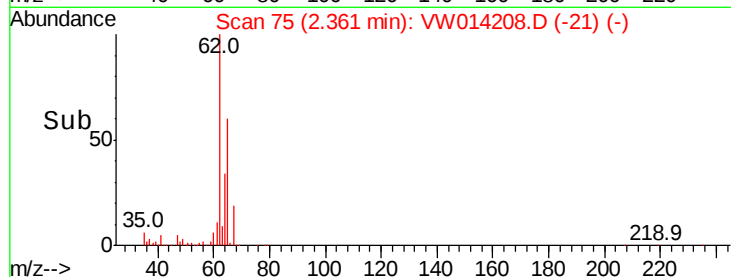
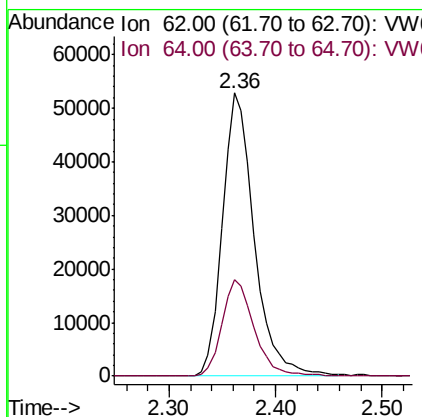
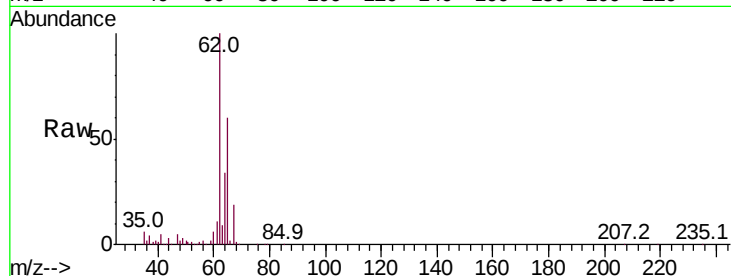
ClientSampleId :

Tot Ion: 62 Resp: 110211

Ion Ratio Lower Upper

62 100

64 34.0 21.8 40.4



#6

Bromomethane

Concen: 24.285 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014208.D

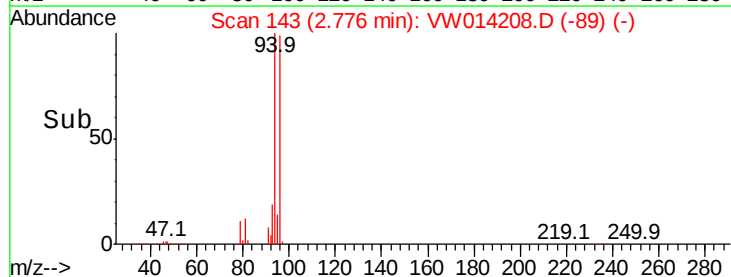
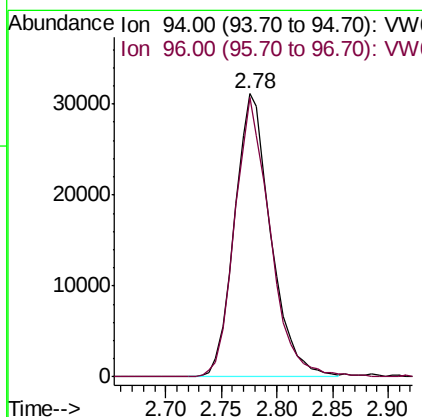
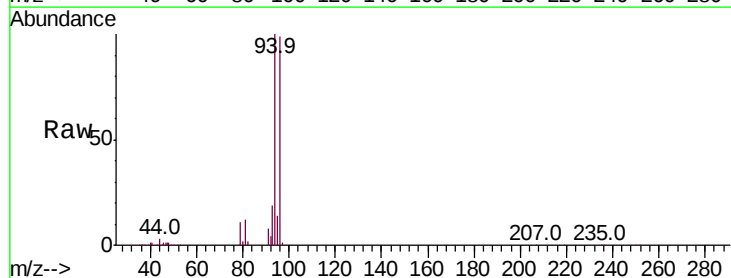
Acq: 02 Dec 2019 17:13

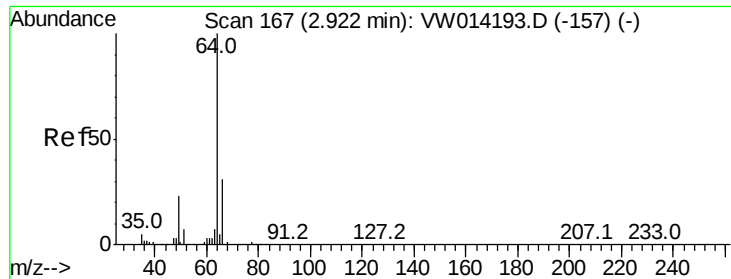
Tgt Ion: 94 Resp: 70335

Ion Ratio Lower Upper

94 100

96 96.3 9.4 178.8





#8

Chloroethane

Concen: 25.031 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

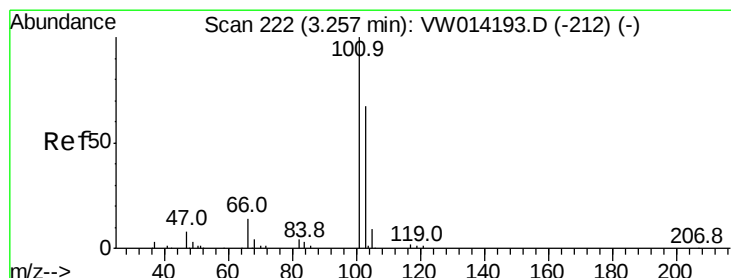
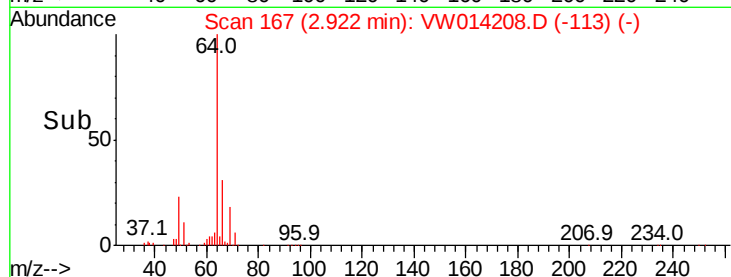
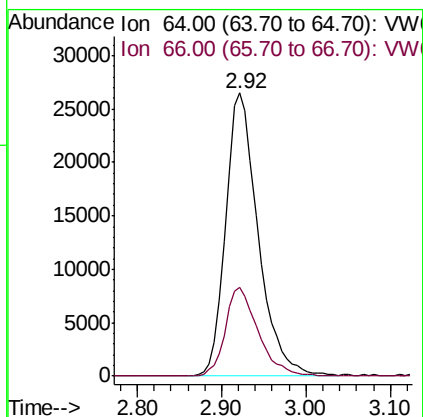
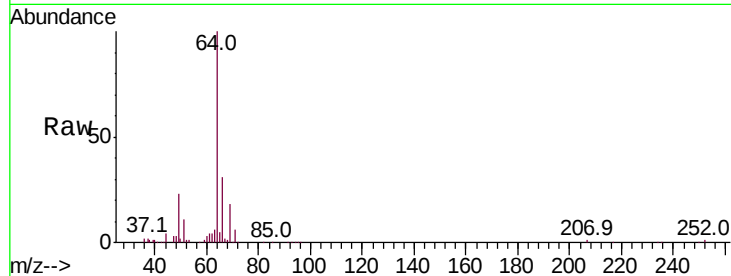
ClientSampled :

Tot Ion: 64 Resp: 69650

Ion Ratio Lower Upper

64 100

66 31.4 21.2 39.4



#9

Trichlorofluoromethane

Concen: 20.990 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW014208.D

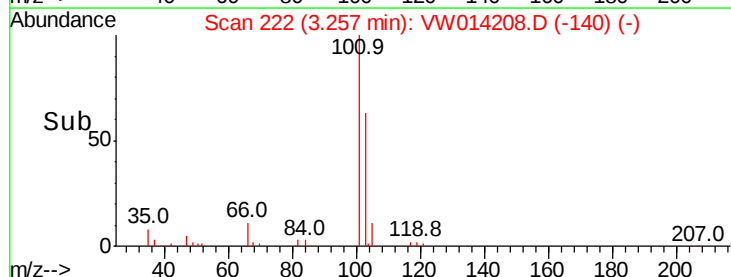
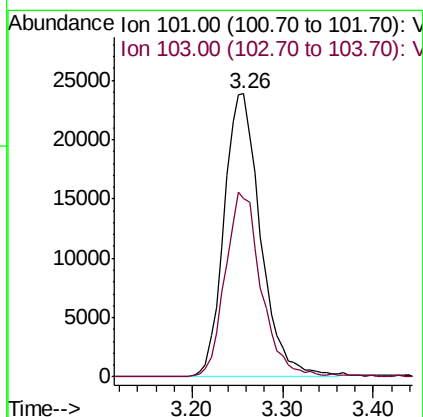
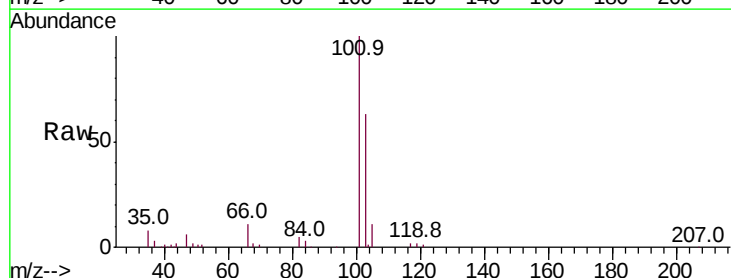
Acq: 02 Dec 2019 17:13

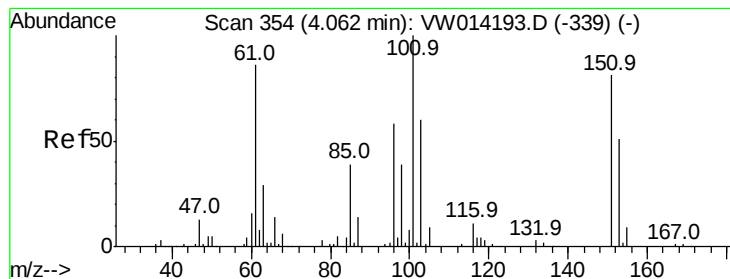
Tgt Ion: 101 Resp: 66955

Ion Ratio Lower Upper

101 100

103 63.8 45.4 84.2





#11

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

Concen: 25.321 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

ClientSampled :

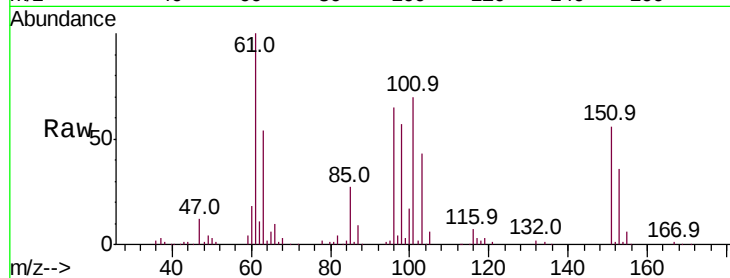
Tot Ion:101 Resp: 119264

Ion Ratio Lower Upper

101 100

85 40.8 31.4 47.2

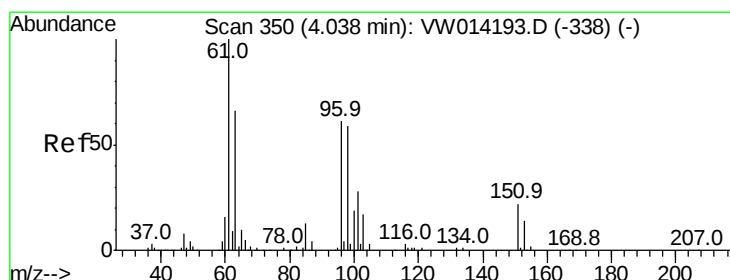
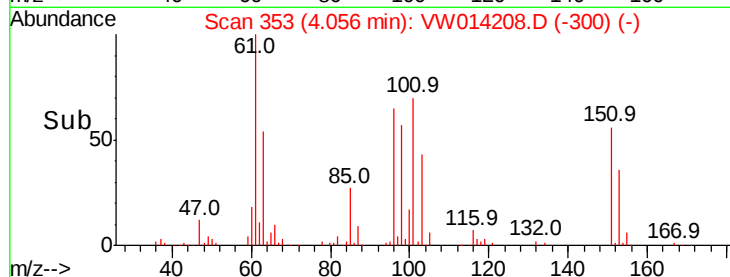
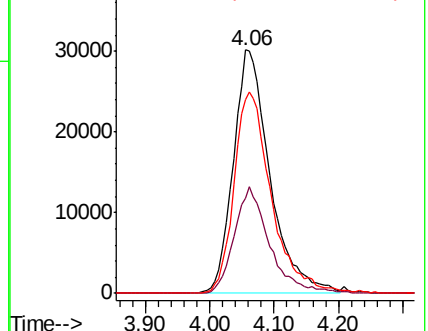
151 81.1 66.9 100.3



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: 24.010 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

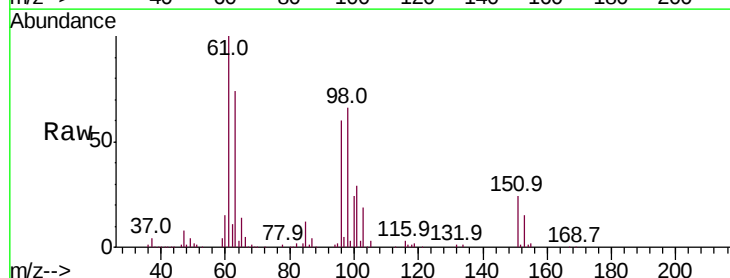
Tgt Ion: 96 Resp: 114956

Ion Ratio Lower Upper

96 100

61 167.7 109.8 204.0

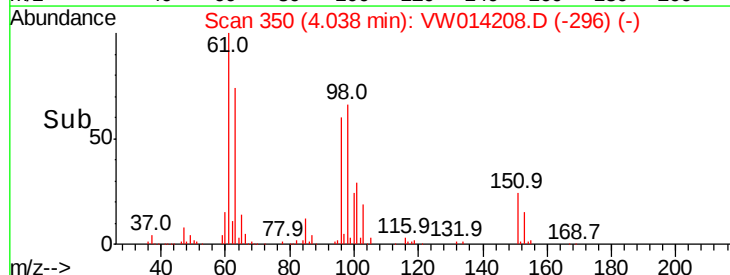
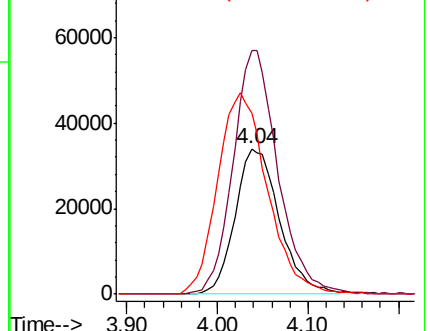
63 124.3 80.7 149.9

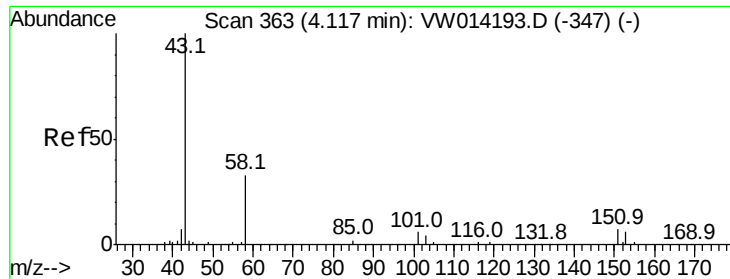


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 55.552 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

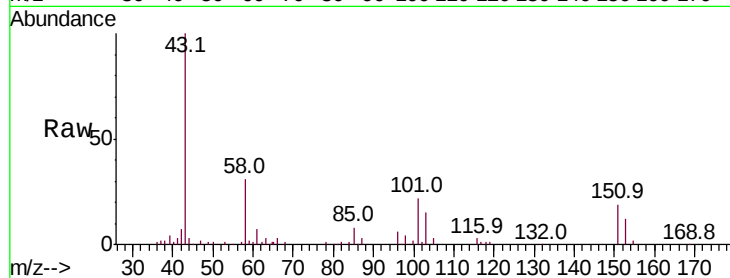
ClientSampled :

Tot Ion: 43 Resp: 74312

Ion Ratio Lower Upper

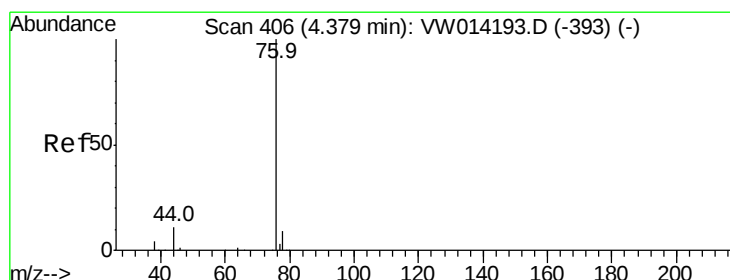
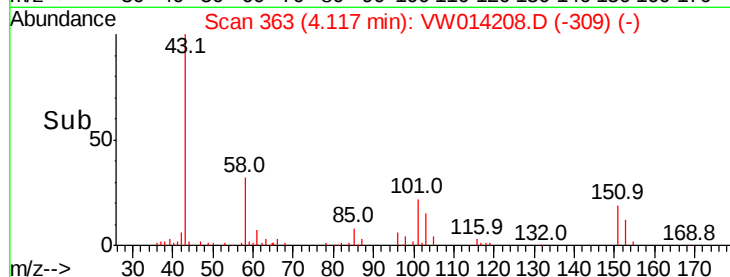
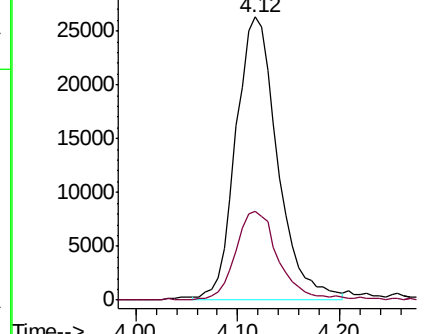
43 100

58 31.9 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: 22.513 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014208.D

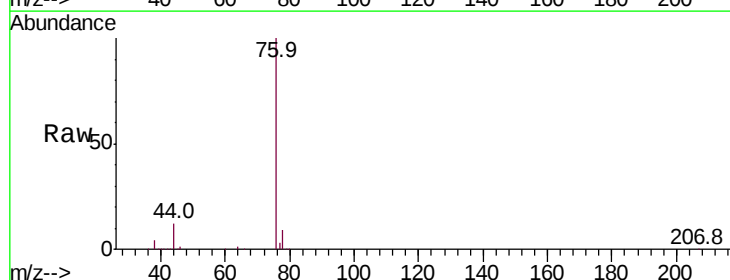
Acq: 02 Dec 2019 17:13

Tgt Ion: 76 Resp: 306788

Ion Ratio Lower Upper

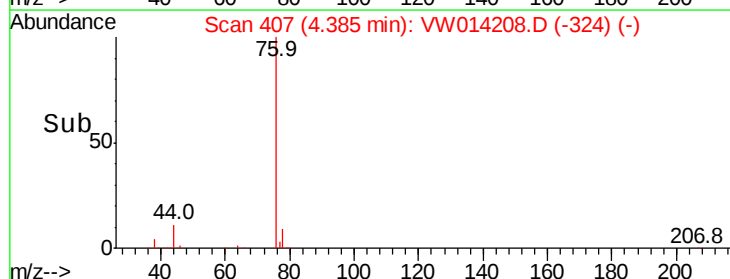
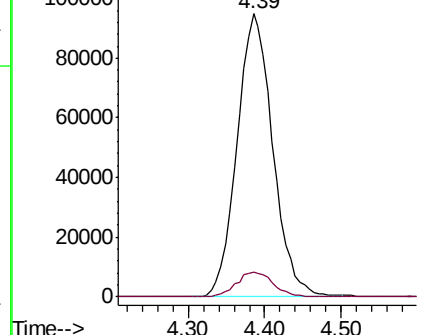
76 100

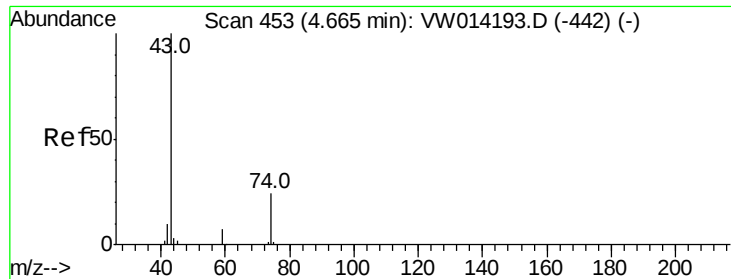
78 8.8 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methyl Acetate

Concen: 32.029 ug/L

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

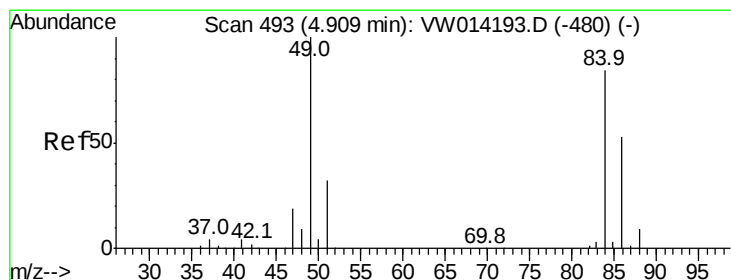
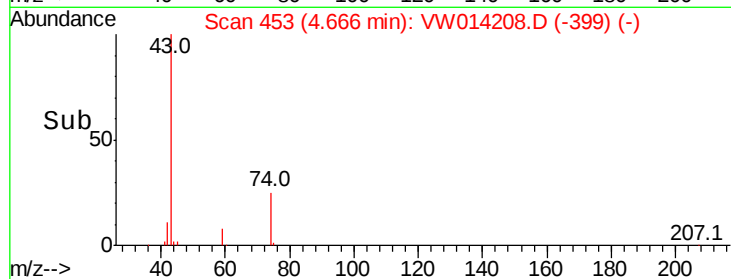
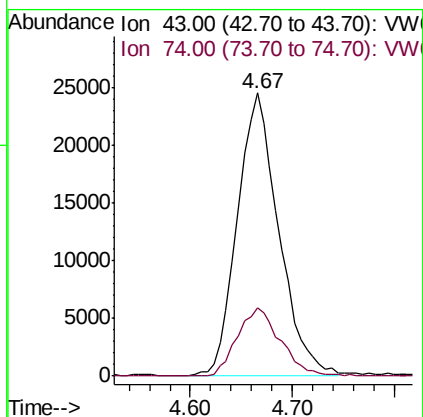
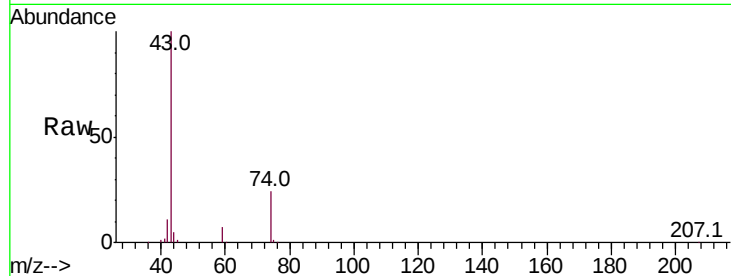
ClientSampled :

Tot Ion: 43 Resp: 69321

Ion Ratio Lower Upper

43 100

74 25.1 19.3 28.9



#16

Methylene chloride

Concen: 24.015 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

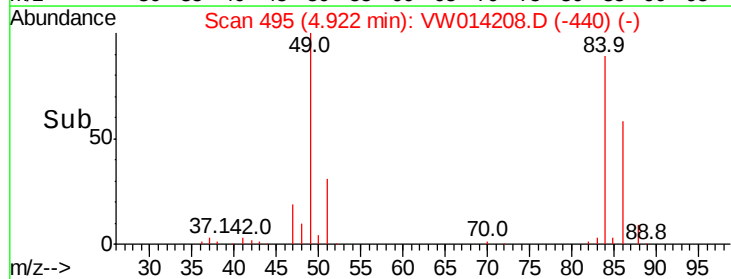
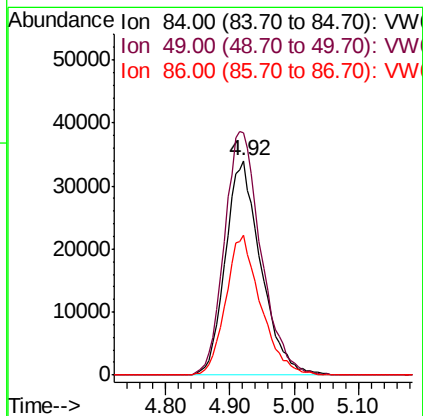
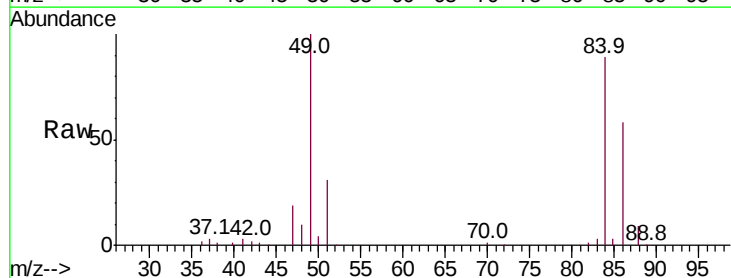
Tgt Ion: 84 Resp: 131123

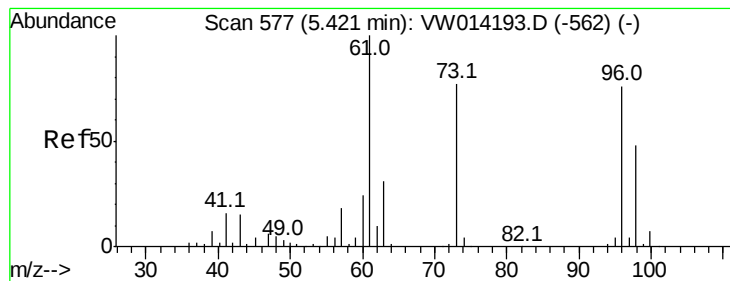
Ion Ratio Lower Upper

84 100

49 112.8 84.2 156.4

86 65.0 43.7 81.1



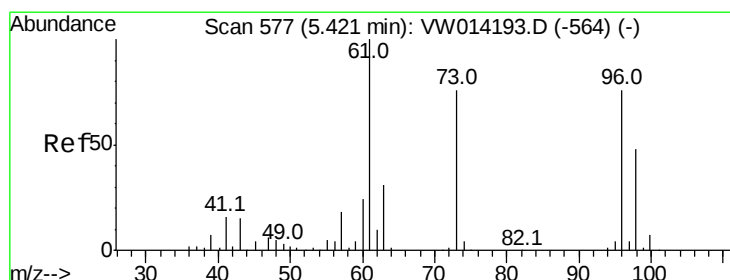
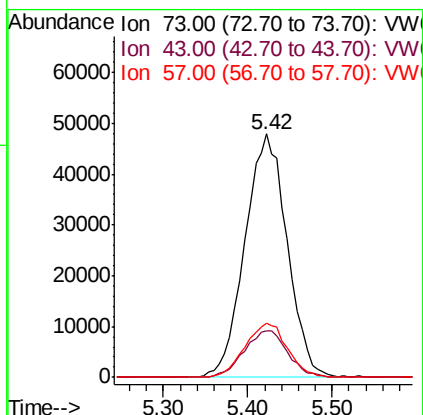
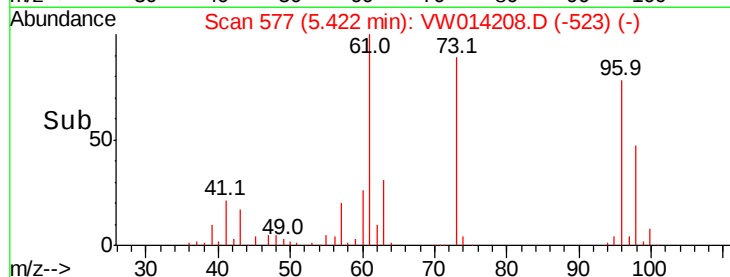
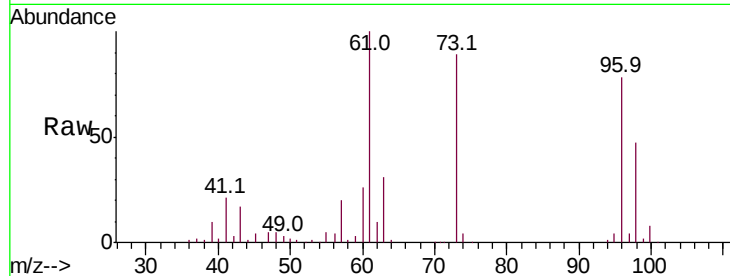


#17

Methvl tert-butvl Ether
 Concen: 26.442 ug/L
 RT: 5.42 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Instrument :
 MSVOA_W
 ClientSampled :

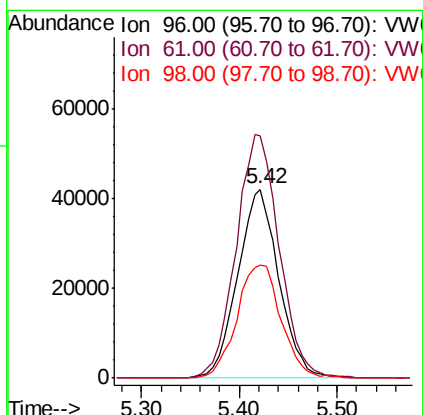
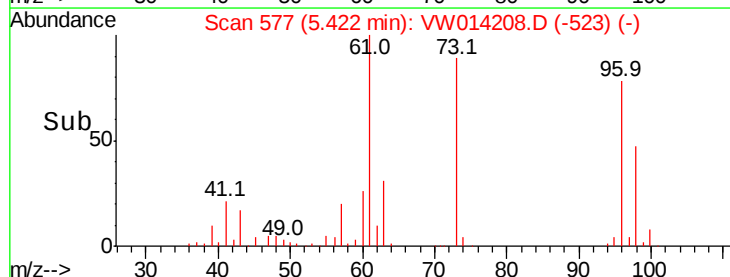
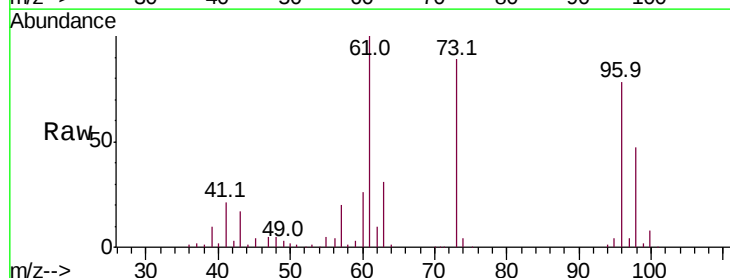
Tot Ion: 73 Resp: 163322
 Ion Ratio Lower Upper
 73 100
 43 19.9 15.5 23.3
 57 22.3 18.2 27.4

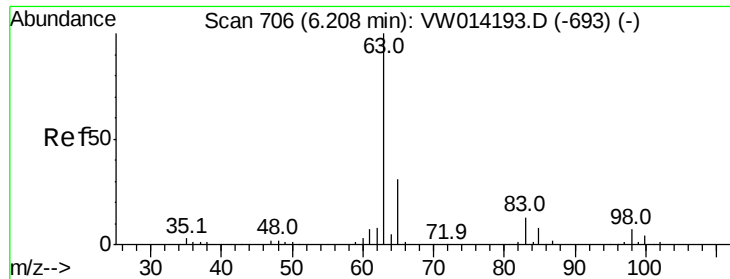


#18

trans-1,2-Dichloroethene
 Concen: 24.556 ug/L
 RT: 5.42 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Tgt Ion: 96 Resp: 122603
 Ion Ratio Lower Upper
 96 100
 61 128.5 90.6 168.2
 98 60.1 42.9 79.7

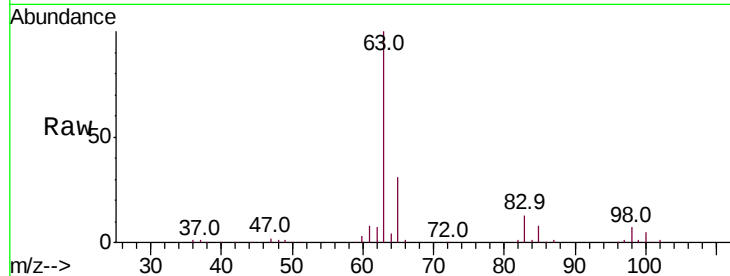




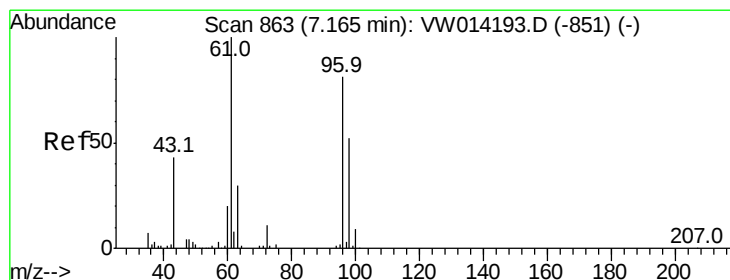
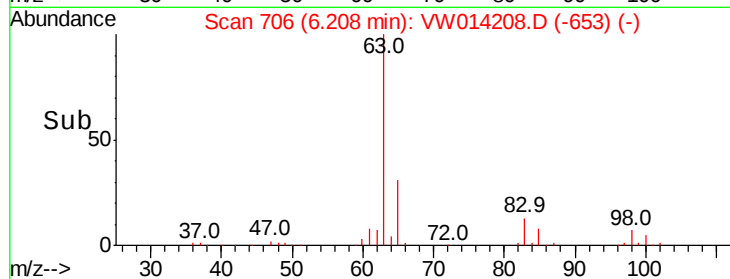
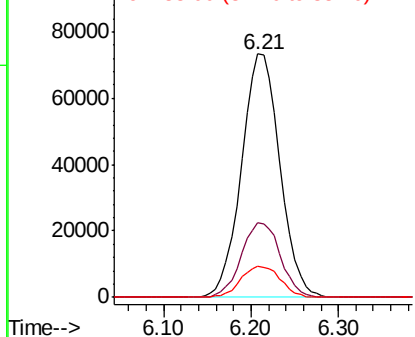
#19
 1,1-Dichloroethane
 Concen: 26.641 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 63 Resp: 224047
 Ion Ratio Lower Upper
 63 100
 65 30.6 22.1 41.1
 83 12.9 9.0 16.6

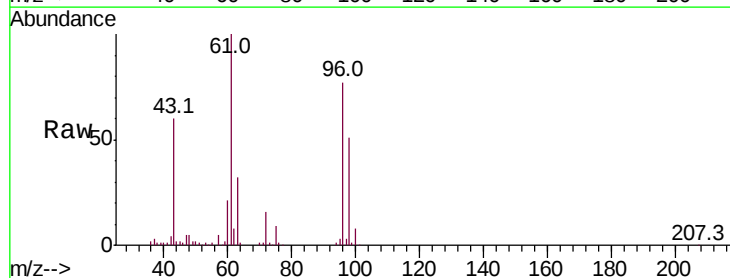


Abundance Ion 63.00 (62.70 to 63.70): VW
 100000 Ion 65.00 (64.70 to 65.70): VW
 80000 Ion 83.00 (82.70 to 83.70): VW

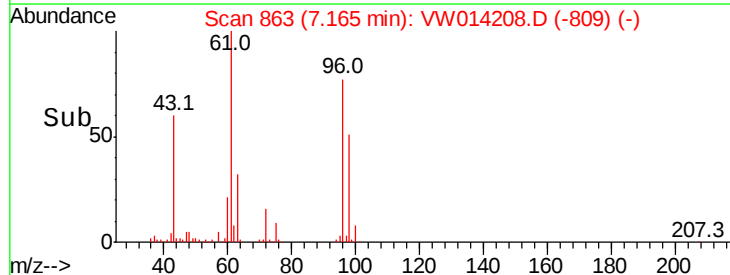
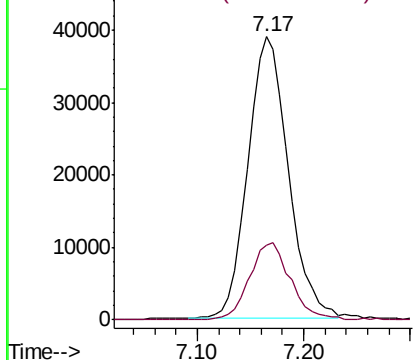


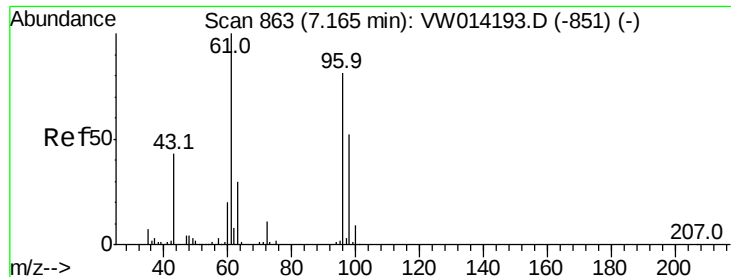
#21
 2-Butanone
 Concen: 60.232 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Tgt Ion: 43 Resp: 103514
 Ion Ratio Lower Upper
 43 100
 72 27.6 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VW
 40000 Ion 72.00 (71.70 to 72.70): VW





#22

cis-1,2-Dichloroethene

Concen: 26.015 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

ClientSampled :

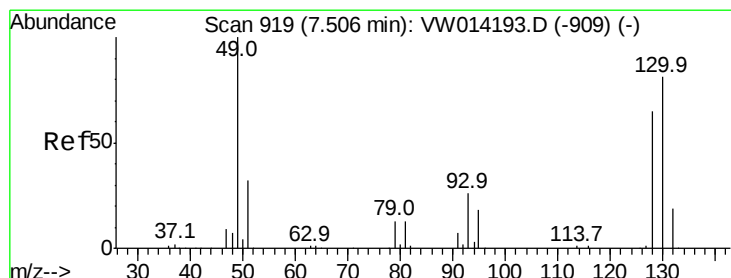
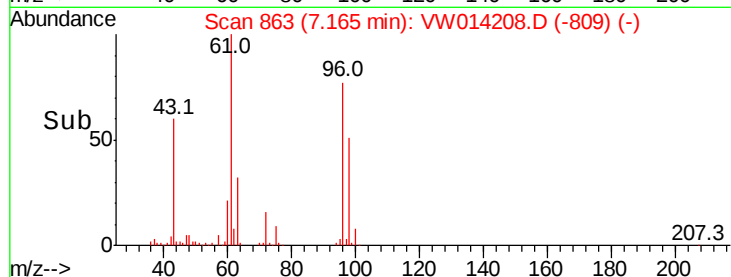
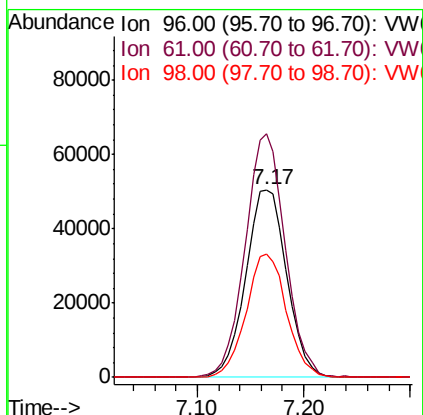
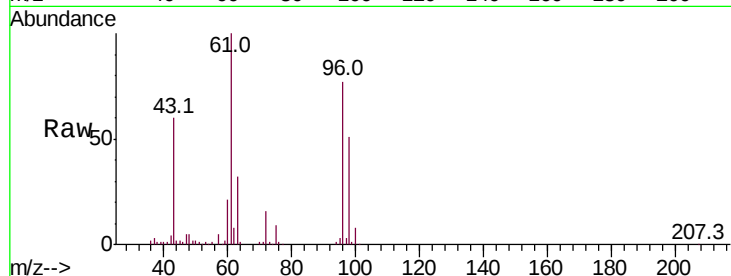
Tot Ion: 96 Resp: 136681

Ion Ratio Lower Upper

96 100

61 129.9 86.9 161.5

98 66.0 45.5 84.5



#23

Bromochloromethane

Concen: 28.395 ug/L

RT: 7.51 min Scan# 919

Delta R.T. -0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Tgt Ion: 128 Resp: 65487

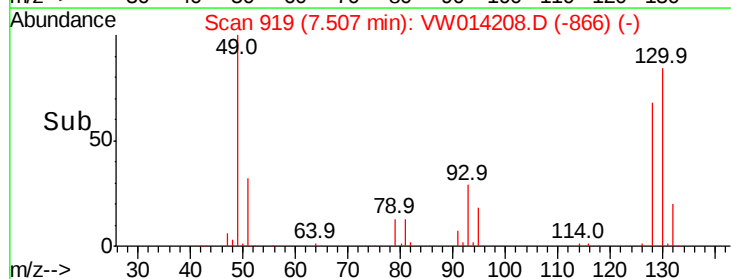
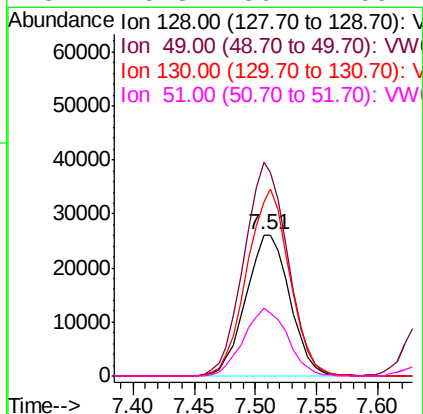
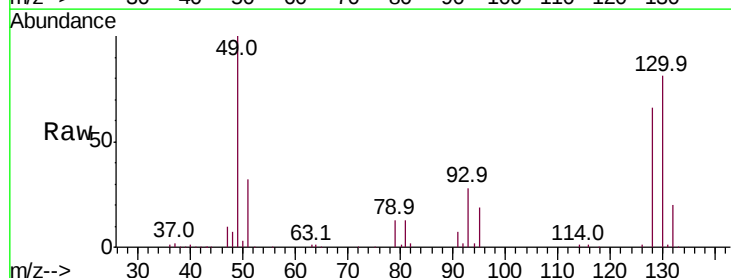
Ion Ratio Lower Upper

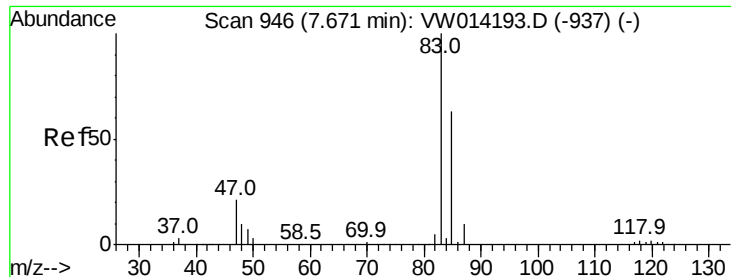
128 100

49 151.5 95.1 176.5

130 123.3 85.0 158.0

51 48.3 36.7 55.1

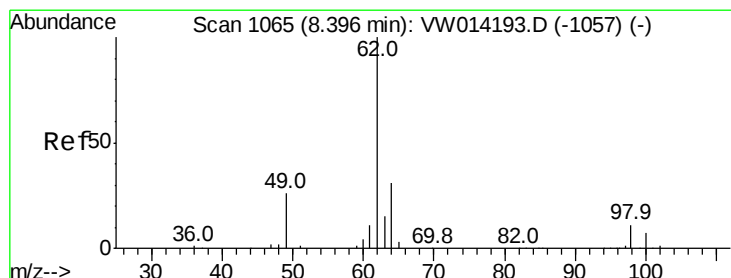
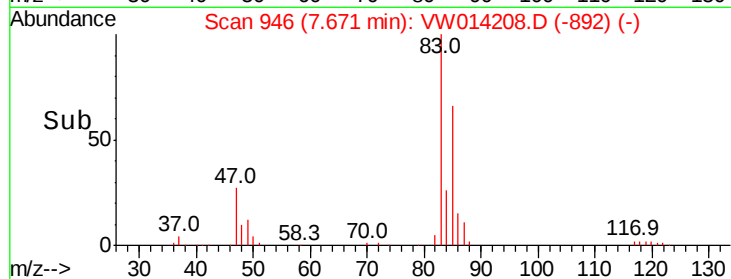
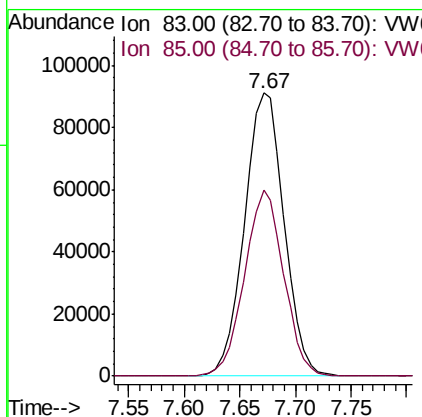
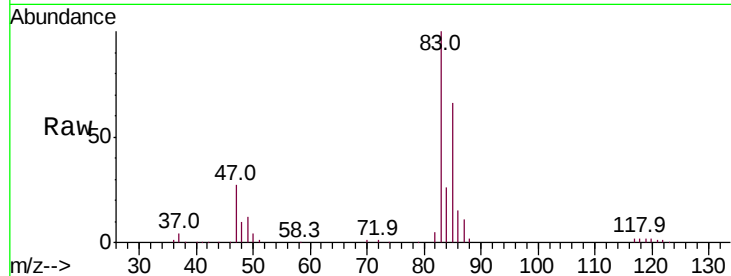




#25
Chloroform
Concen: 27.378 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW014208.D
Acq: 02 Dec 2019 17:13

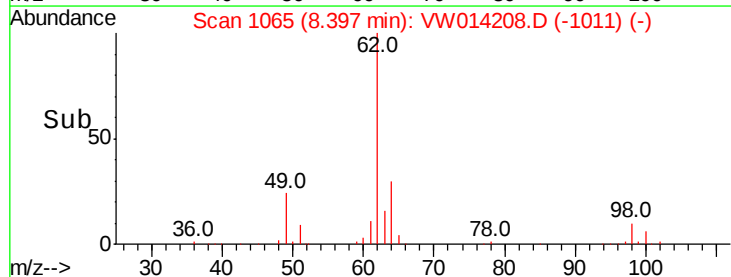
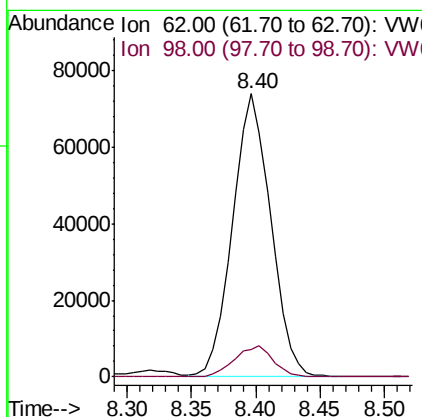
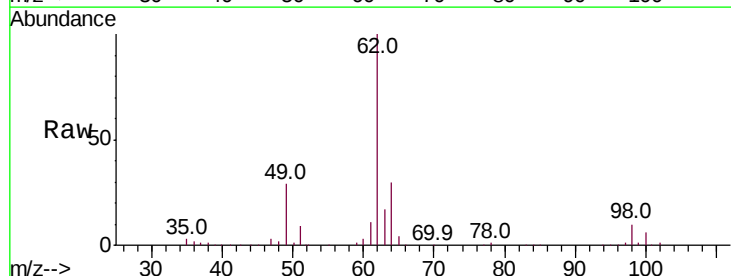
Instrument :
MSVOA_W
ClientSampled :

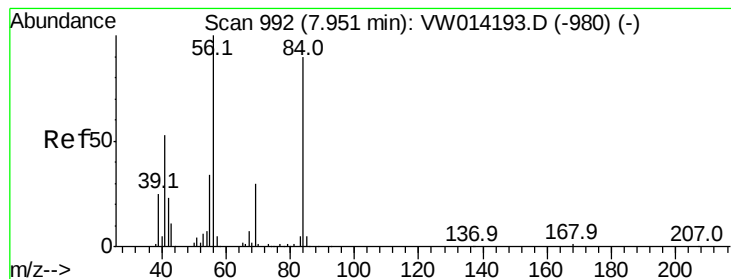
Tot Ion: 83 Resp: 226107
Ion Ratio Lower Upper
83 100
85 64.9 46.1 85.7



#27
1,2-Dichloroethane
Concen: 30.457 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW014208.D
Acq: 02 Dec 2019 17:13

Tgt Ion: 62 Resp: 152288
Ion Ratio Lower Upper
62 100
98 9.8 9.3 13.9





#30

Cyclohexane

Concen: 21.626 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :

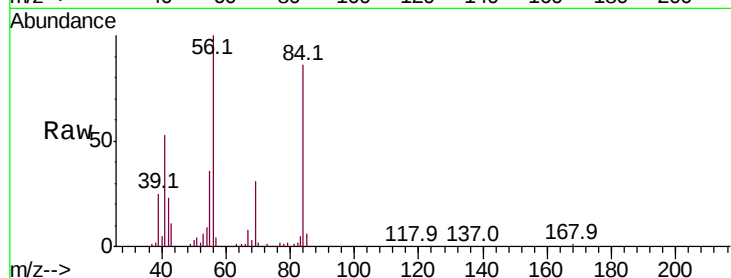
Tot Ion: 56 Resp: 197895

Ion Ratio Lower Upper

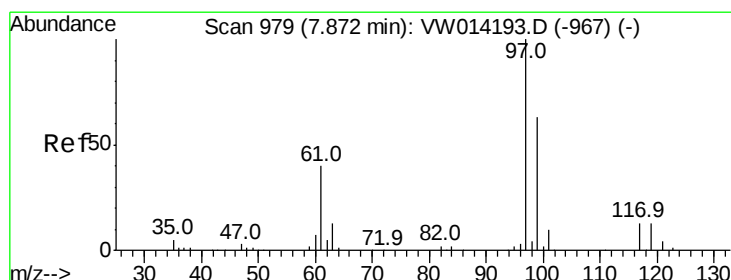
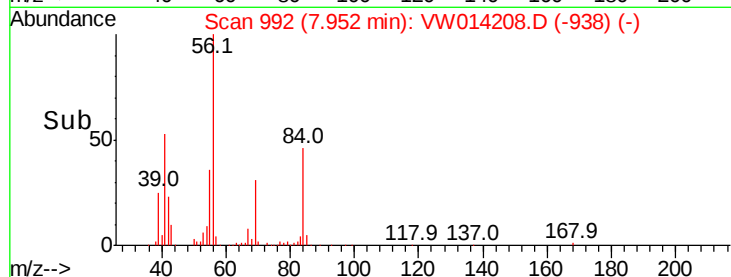
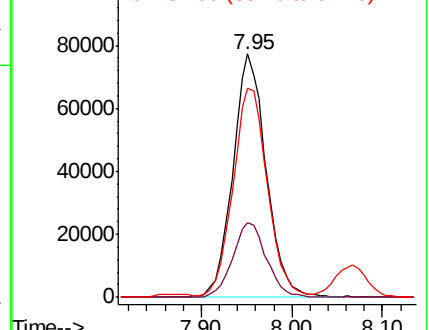
56 100

69 31.2 24.6 37.0

84 89.0 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 24.181 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

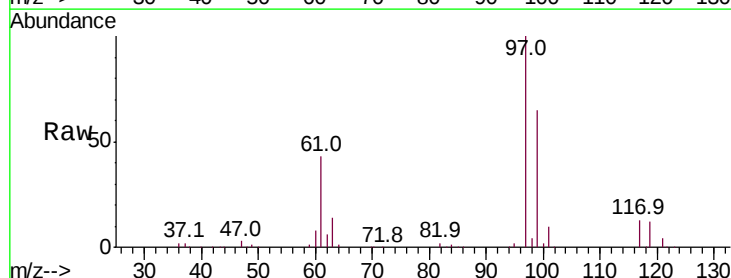
Tgt Ion: 97 Resp: 173276

Ion Ratio Lower Upper

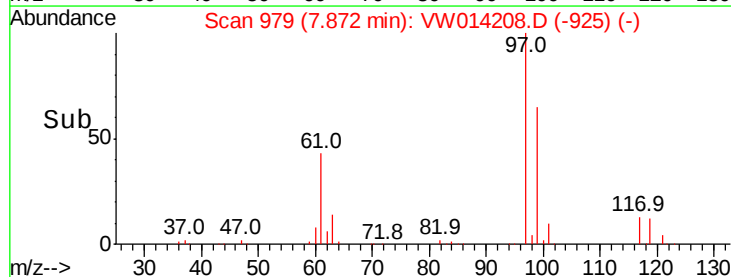
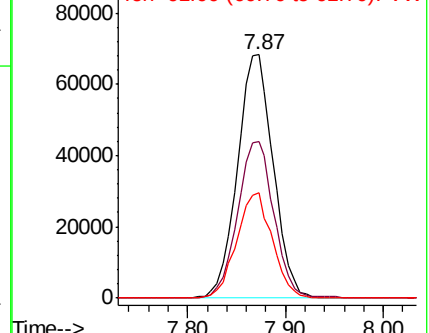
97 100

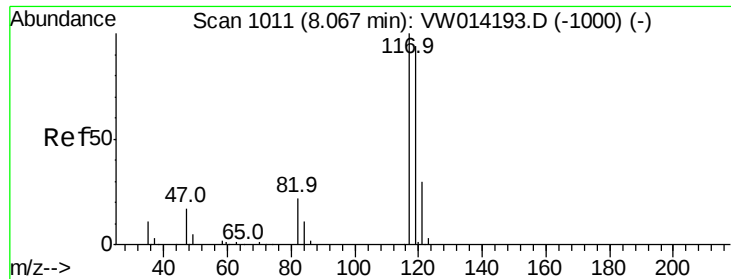
99 65.0 51.1 76.7

61 43.0 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: 24.511 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

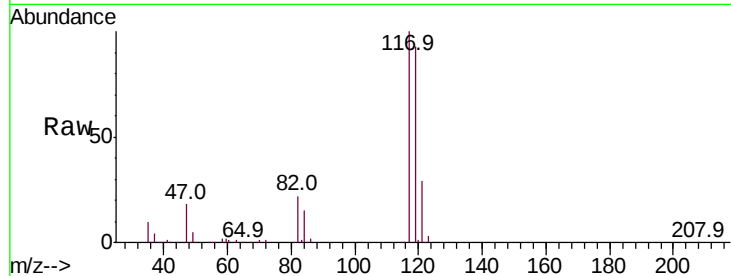
ClientSampleId :

Tot Ion:117 Resp: 168606

Ion Ratio Lower Upper

117 100

119 94.6 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

60000

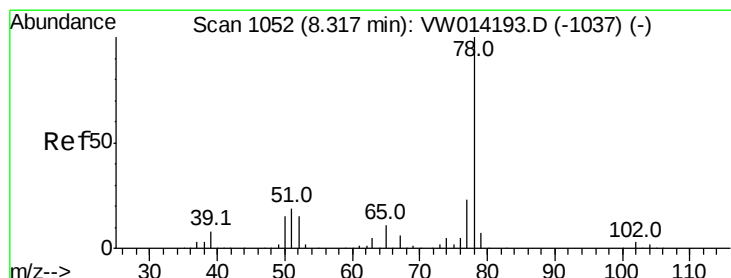
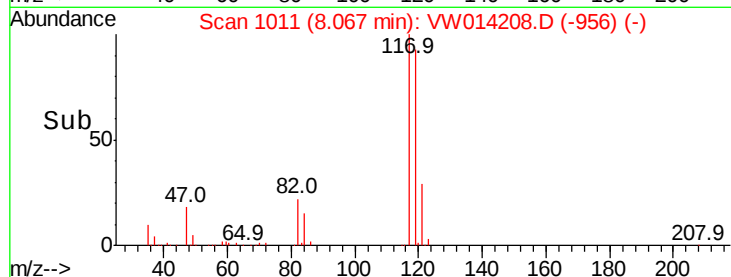
40000

20000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 24.401 ug/L

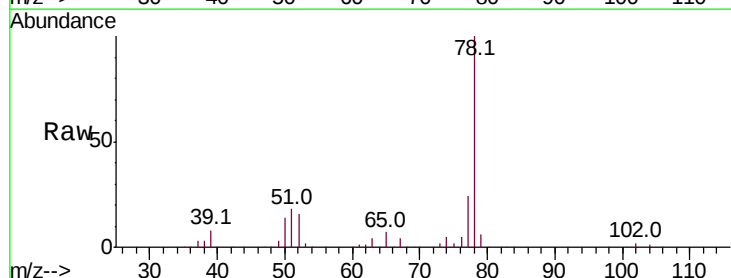
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Tgt Ion: 78 Resp: 511776



Abundance Ion 78.00 (77.70 to 78.70): VW

250000

200000

150000

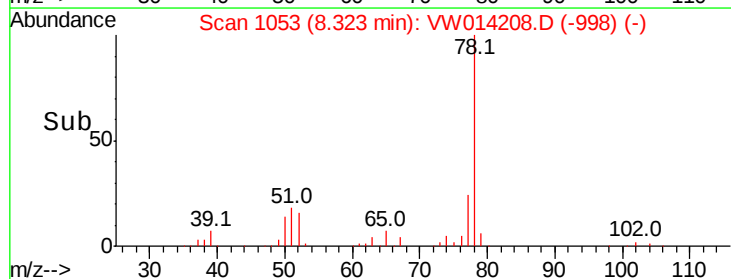
100000

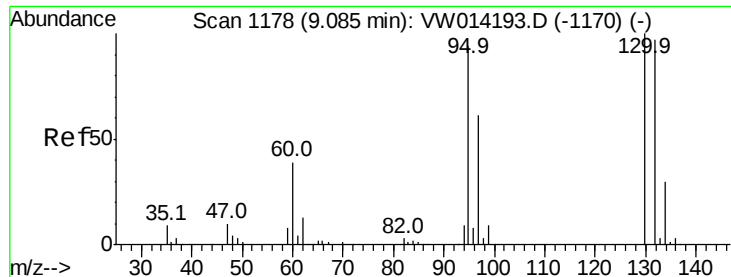
50000

0

8.20 8.30 8.40

Time-->





#35

Trichloroethene

Concen: 23.914 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 95 Resp: 133790

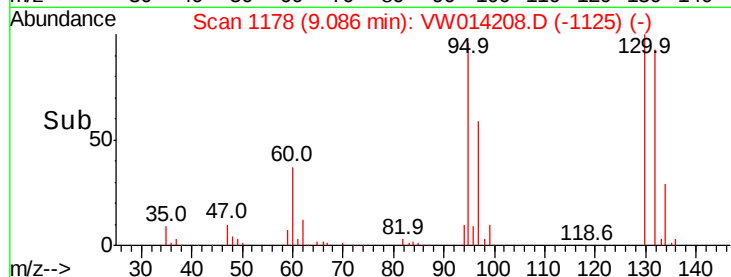
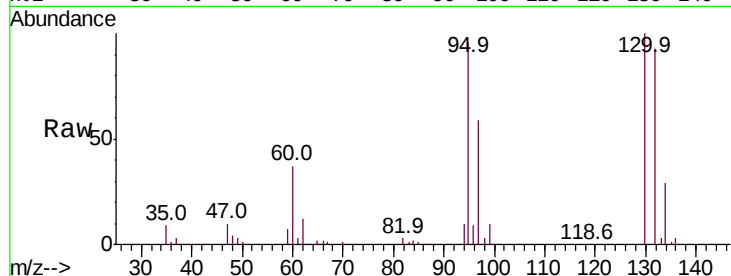
Ion Ratio Lower Upper

95 100

97 64.7 45.1 83.9

132 103.8 73.7 136.9

130 108.4 76.6 142.2

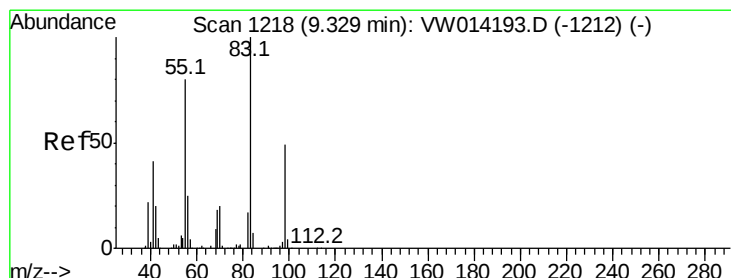
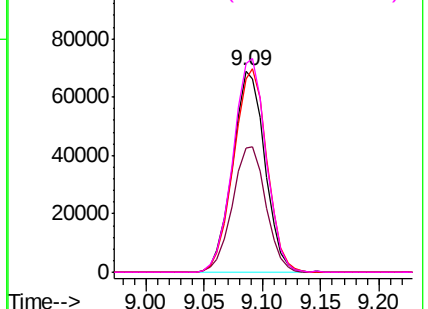


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 22.058 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

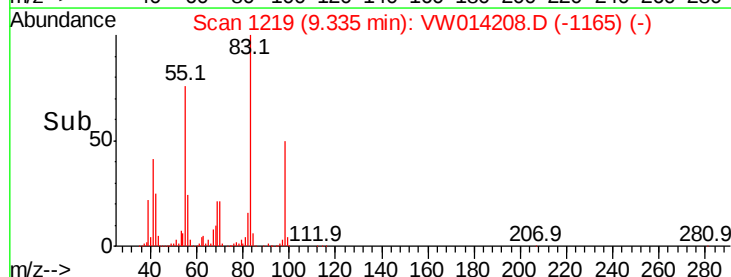
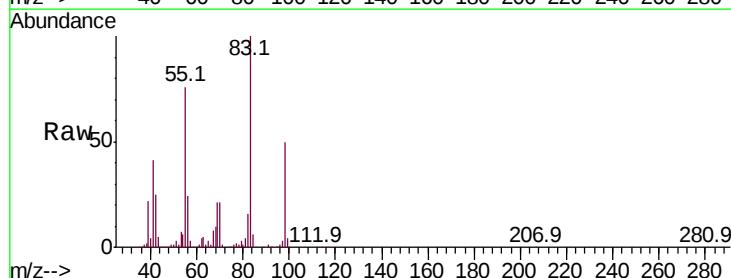
Tgt Ion: 83 Resp: 221267

Ion Ratio Lower Upper

83 100

55 75.6 59.8 89.8

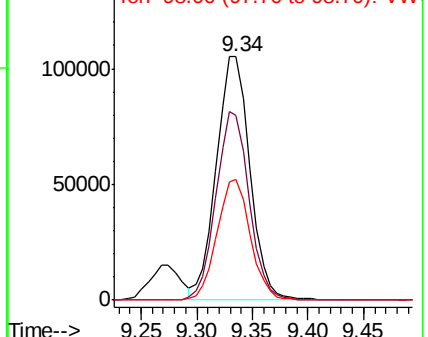
98 49.0 39.5 59.3

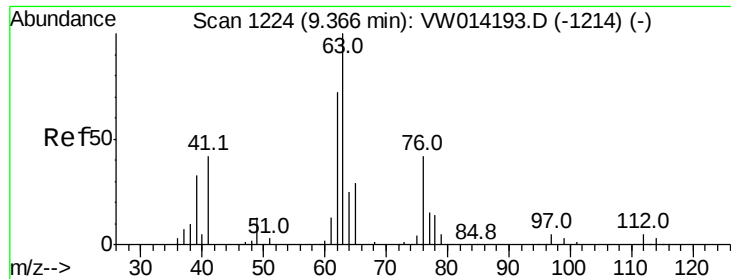


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

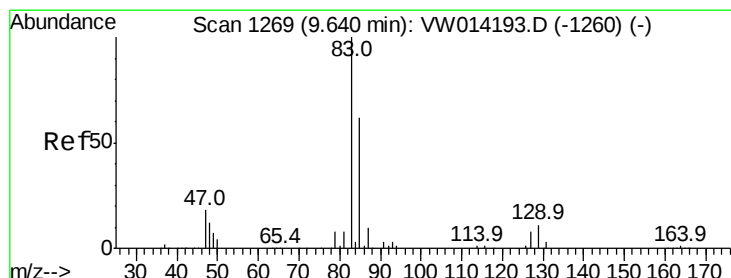
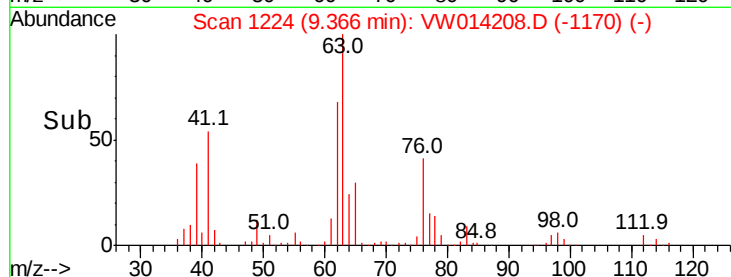
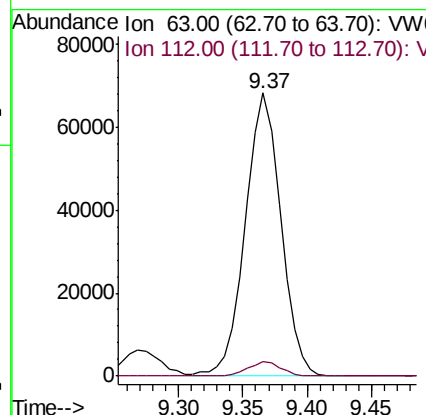
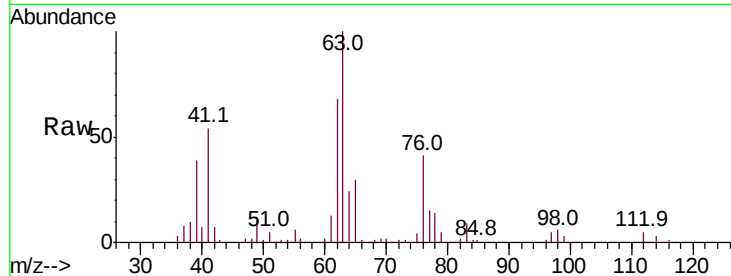




#40
 1,2-Dichloropropane
 Concen: 25.764 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

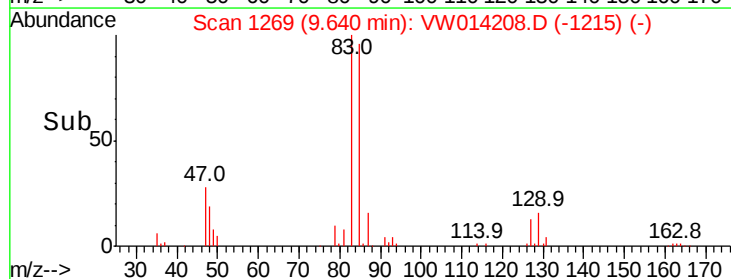
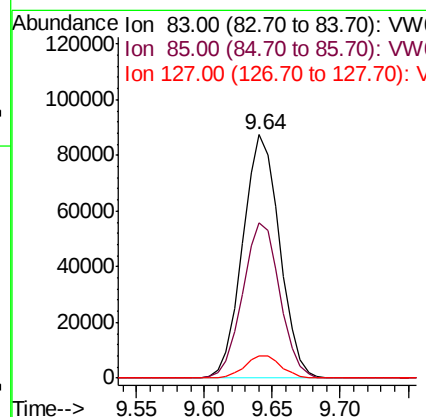
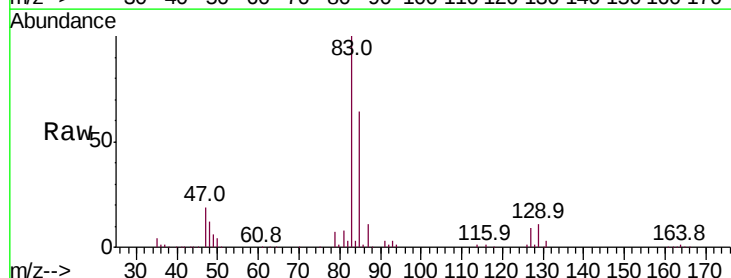
Instrument :
 MSVOA_W
 ClientSampleId :

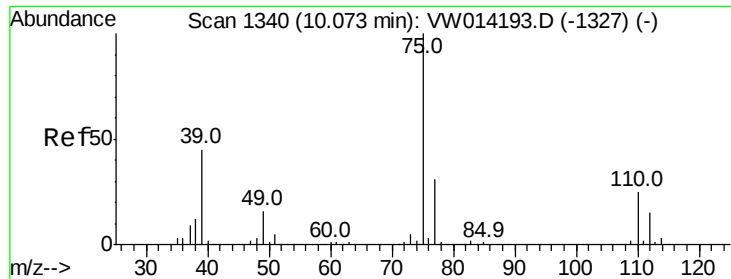
Tot Ion: 63 Resp: 130081
 Ion Ratio Lower Upper
 63 100
 112 4.9 3.9 5.9



#41
 Bromodichloromethane
 Concen: 27.198 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Tgt Ion: 83 Resp: 166013
 Ion Ratio Lower Upper
 83 100
 85 63.8 45.1 83.7
 127 8.9 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 25.458 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

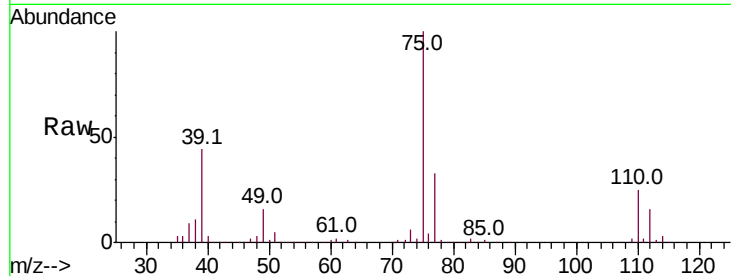
ClientSampled :

Tot Ion: 75 Resp: 202841

Ion Ratio Lower Upper

75 100

77 33.0 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

120000

100000

80000

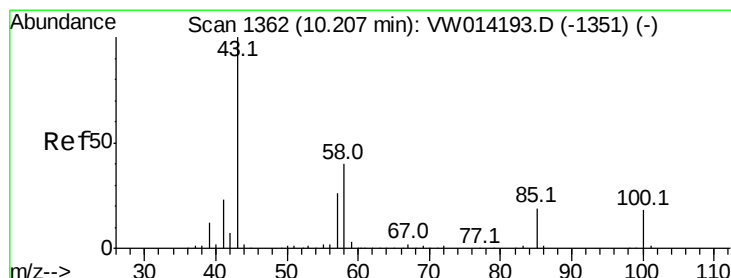
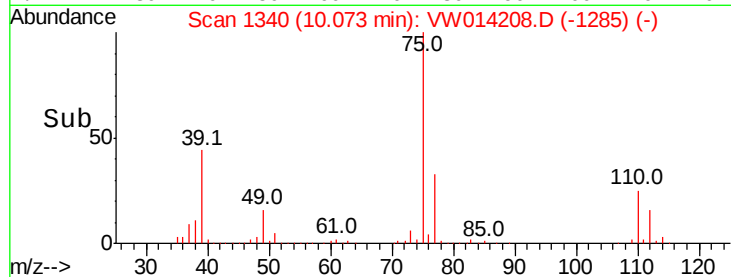
60000

40000

20000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 59.555 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

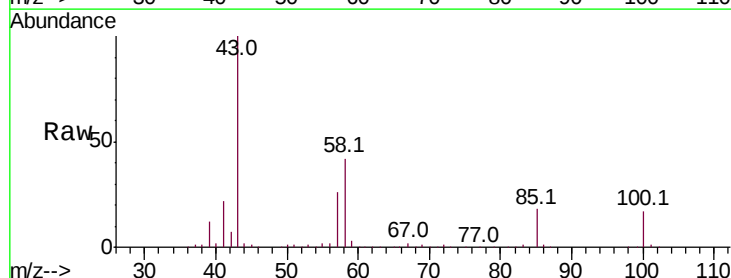
Tgt Ion: 43 Resp: 198528

Ion Ratio Lower Upper

43 100

58 41.0 32.6 49.0

100 17.4 13.8 20.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.21

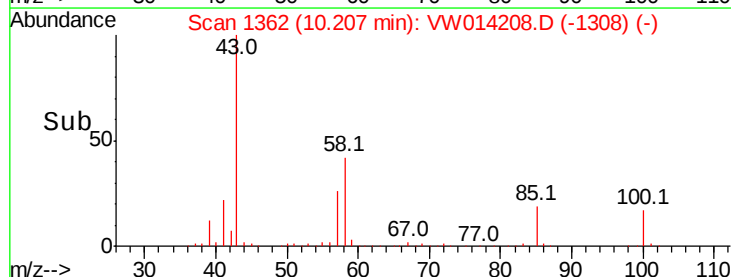
150000

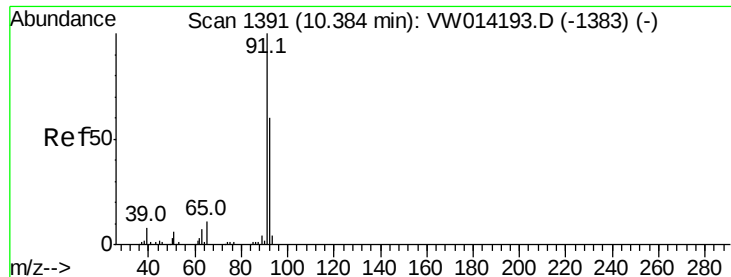
100000

50000

0

Time-->





#44

Toluene

Concen: 24.528 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

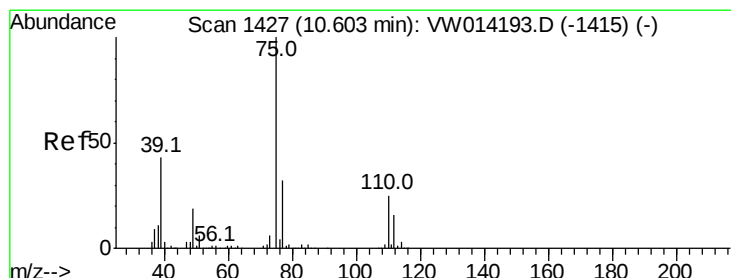
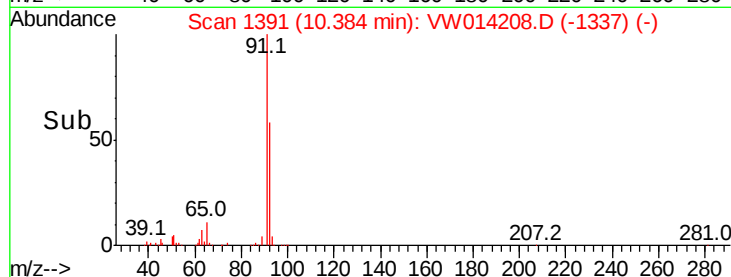
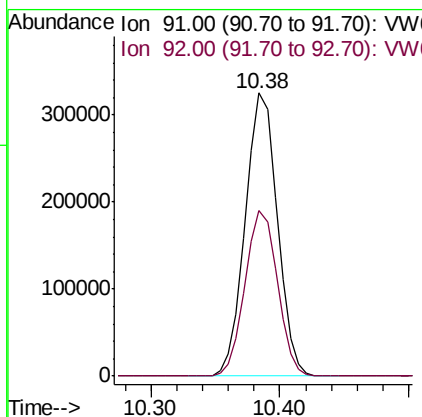
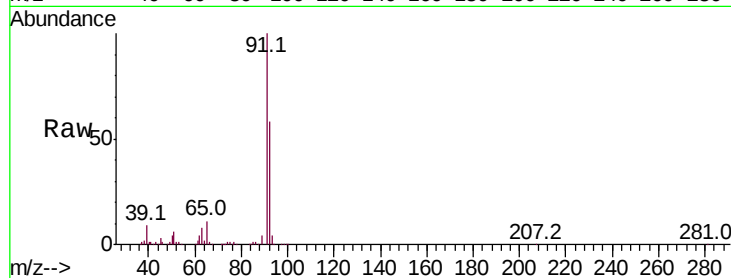
ClientSampleId :

Tot Ion: 91 Resp: 560890

Ion Ratio Lower Upper

91 100

92 58.3 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 26.608 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014208.D

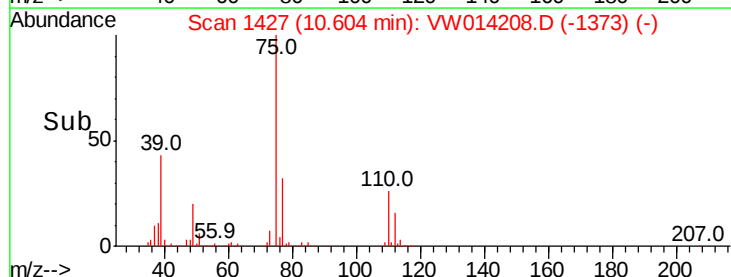
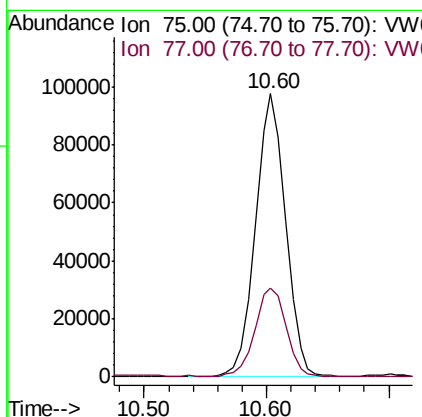
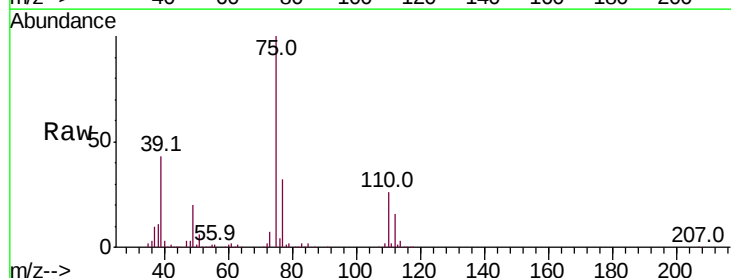
Acq: 02 Dec 2019 17:13

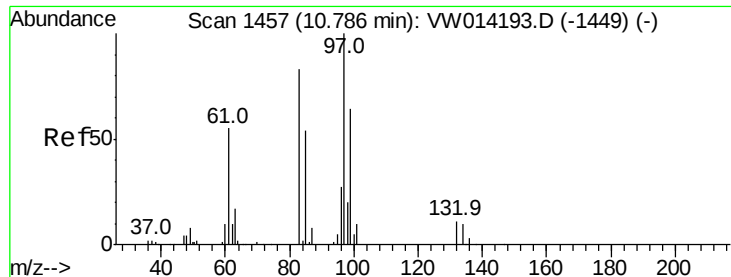
Tgt Ion: 75 Resp: 167651

Ion Ratio Lower Upper

75 100

77 31.6 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 28.561 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 105954

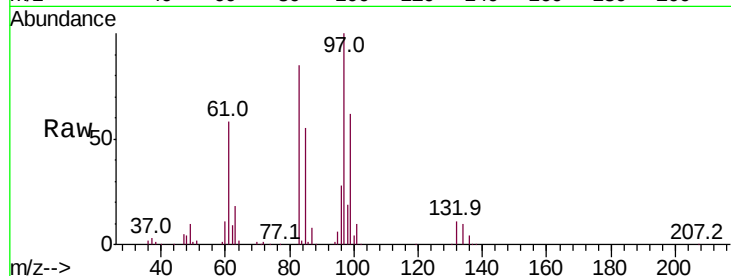
Ion Ratio Lower Upper

97 100

83 84.7 58.9 109.5

85 54.6 38.1 70.9

99 62.1 46.5 86.3



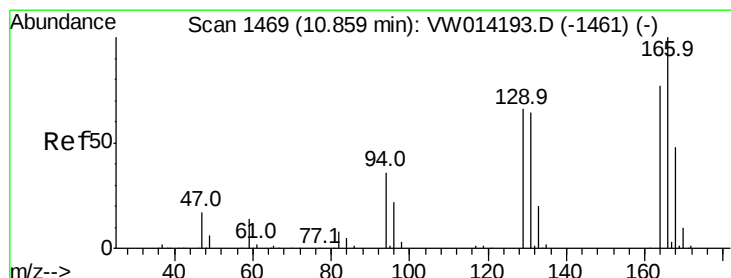
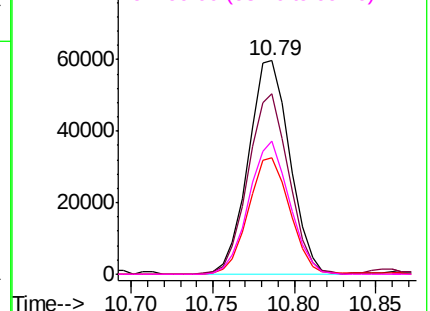
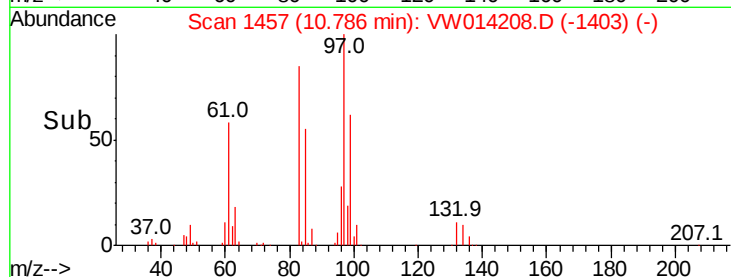
Abundance

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: 23.603 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Tgt Ion:164 Resp: 117701

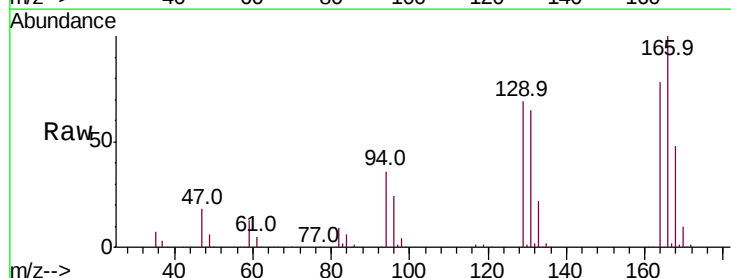
Ion Ratio Lower Upper

164 100

129 88.7 60.6 112.6

131 84.0 59.1 109.7

166 128.3 90.8 168.6



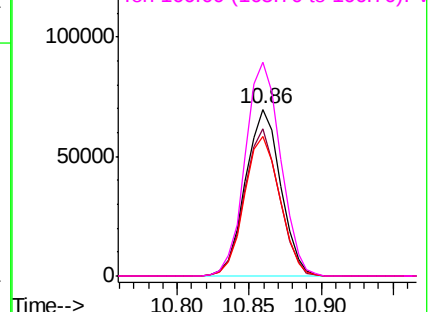
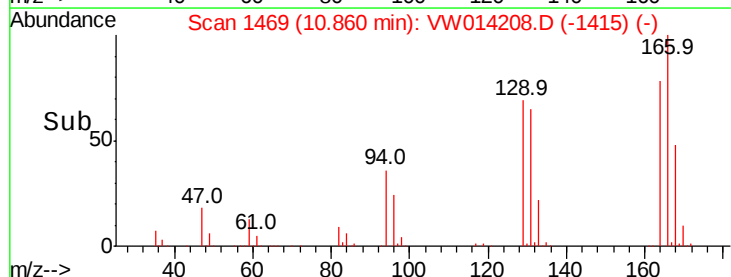
Abundance

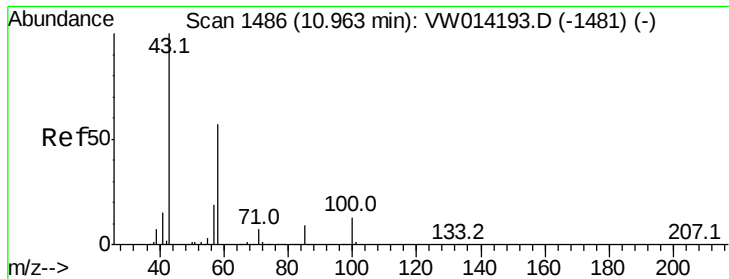
Ion 164.00 (163.70 to 164.70): V

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: 60.772 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 146056

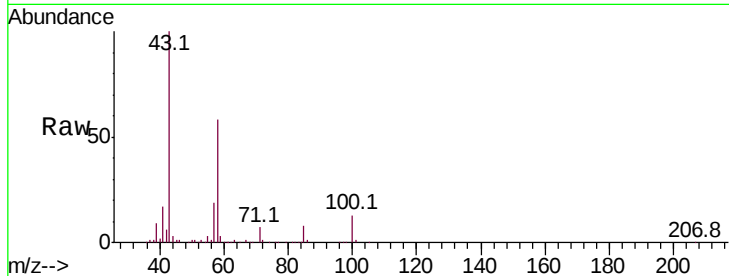
Ion Ratio Lower Upper

43 100

58 59.0 44.4 66.6

57 20.4 16.5 24.7

100 14.0 11.1 16.7

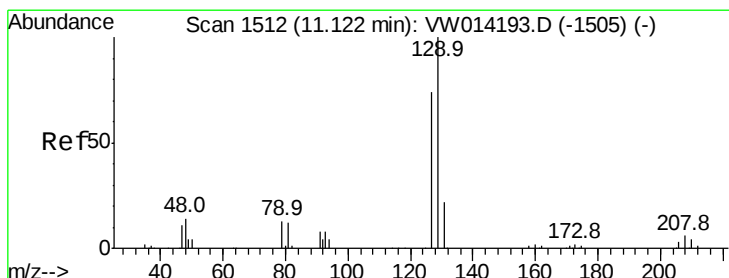
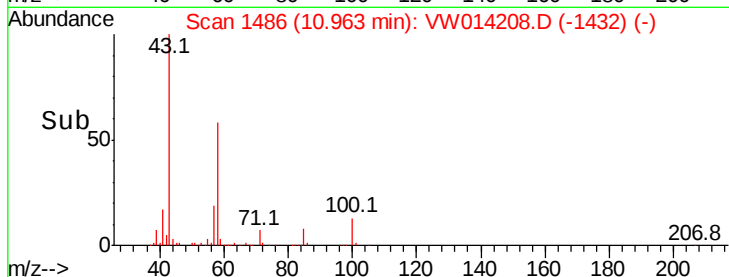
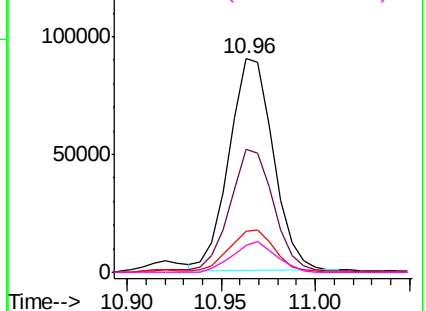


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 28.070 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW014208.D

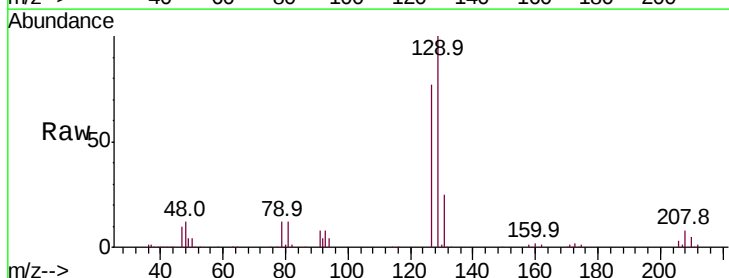
Acq: 02 Dec 2019 17:13

Tgt Ion:129 Resp: 122399

Ion Ratio Lower Upper

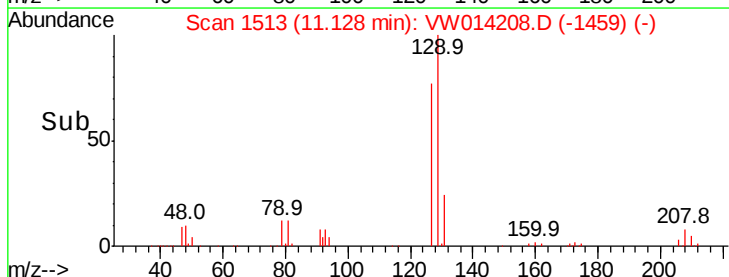
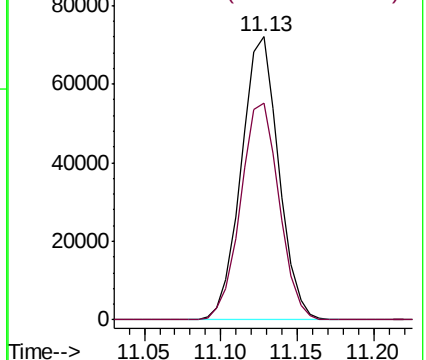
129 100

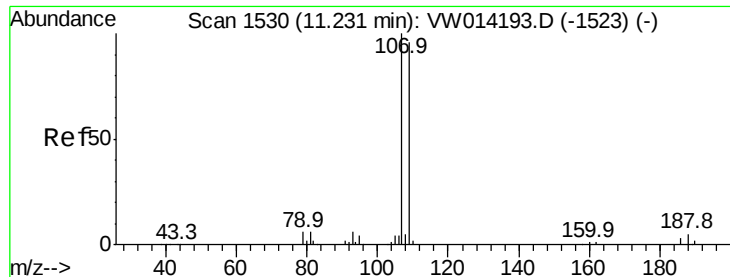
127 76.7 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

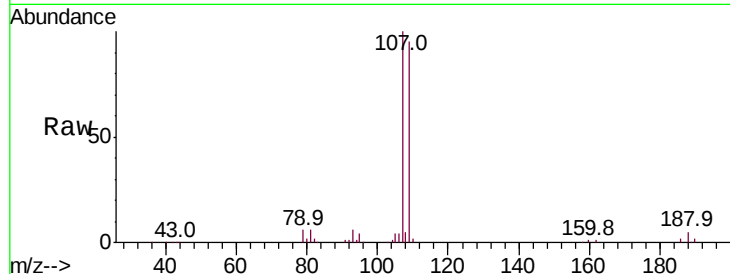




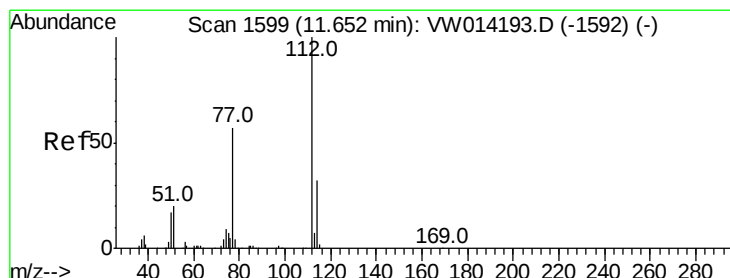
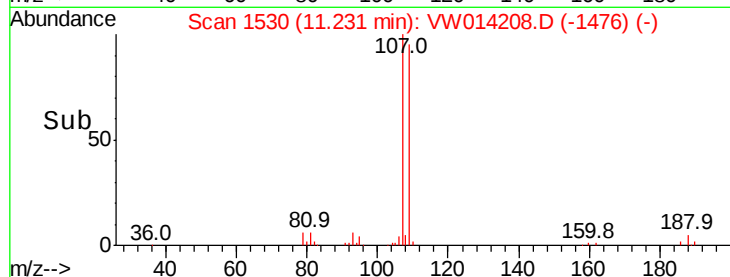
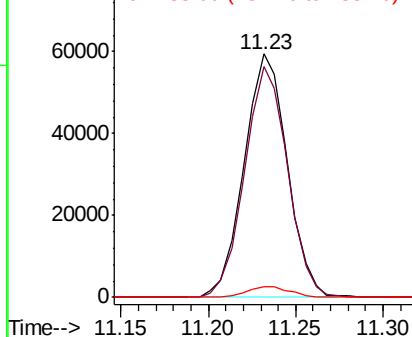
#51
 1,2-Dibromoethane
 Concen: 28.431 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	64.6	120.0
188	4.6	3.9	5.9

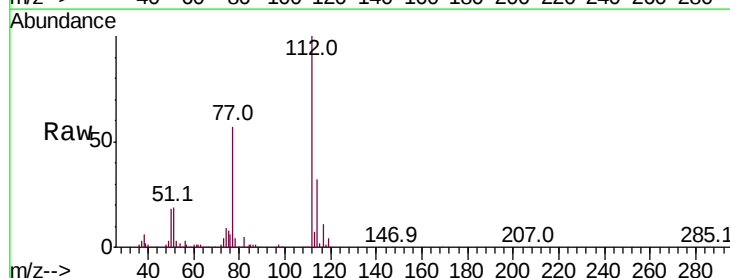


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

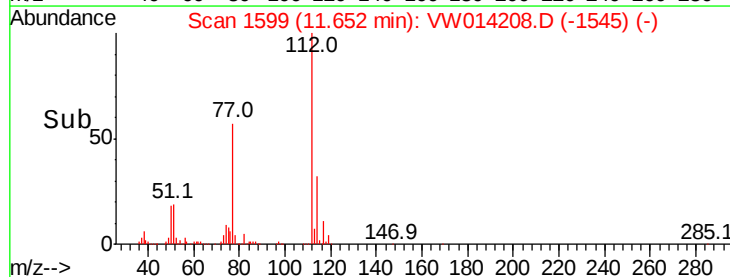
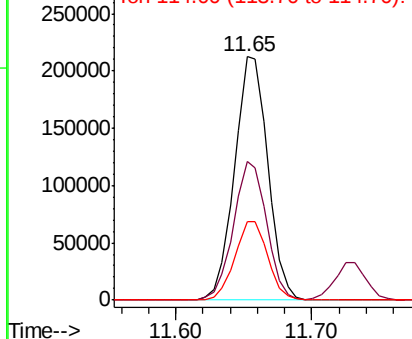


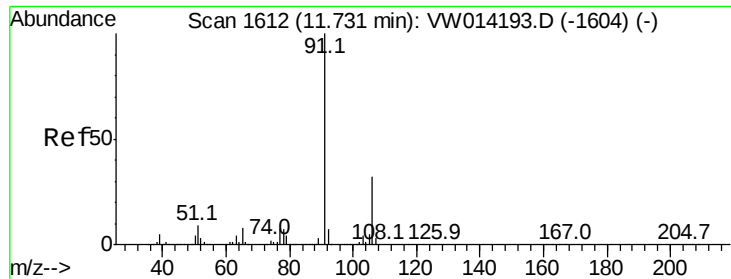
#52
 Chlorobenzene
 Concen: 25.264 ug/L
 RT: 11.65 min Scan# 1599
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Tgt Ion	Ratio	Lower	Upper
112	100		
77	57.1	42.2	63.4
114	32.2	22.5	41.9



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

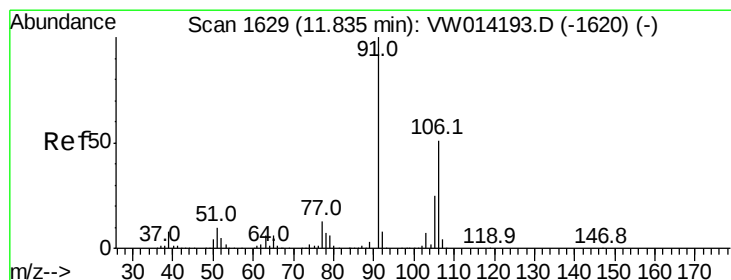
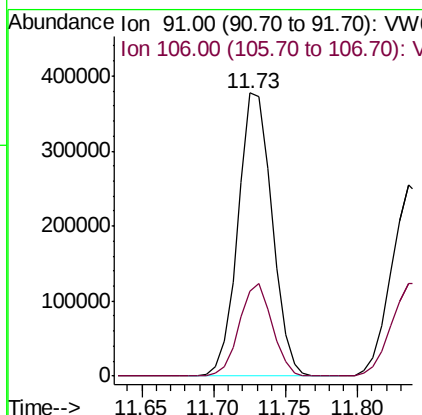
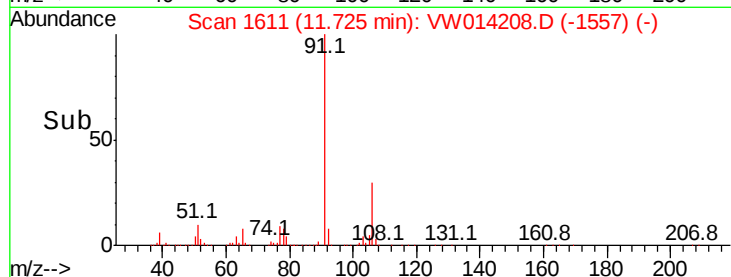
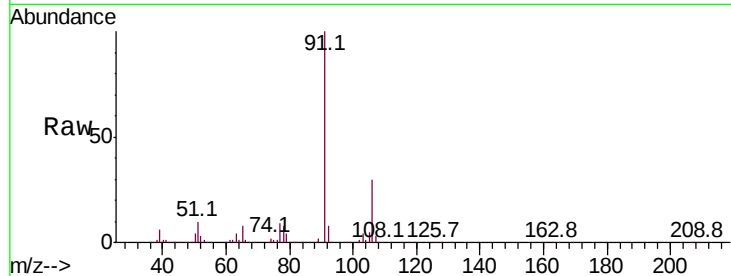




#53
Ethylbenzene
Concen: 24.650 ug/L
RT: 11.73 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VW014208.D
Acq: 02 Dec 2019 17:13

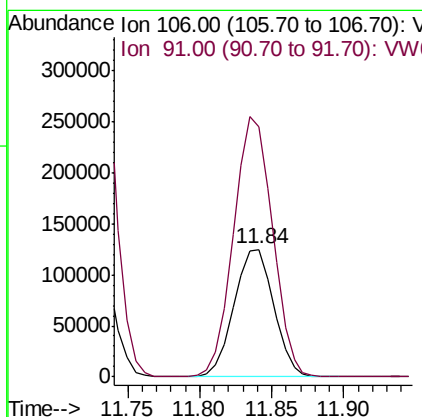
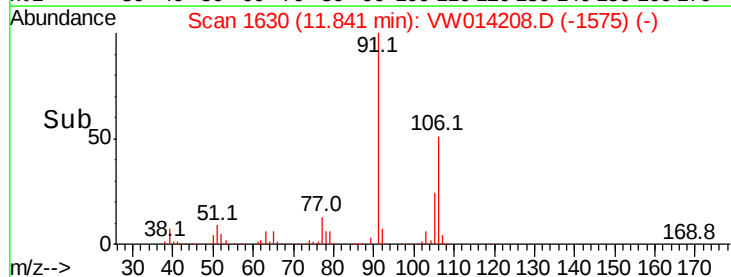
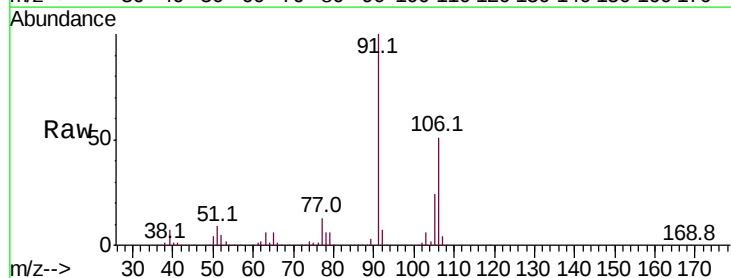
Instrument :
MSVOA_W
ClientSampleId :

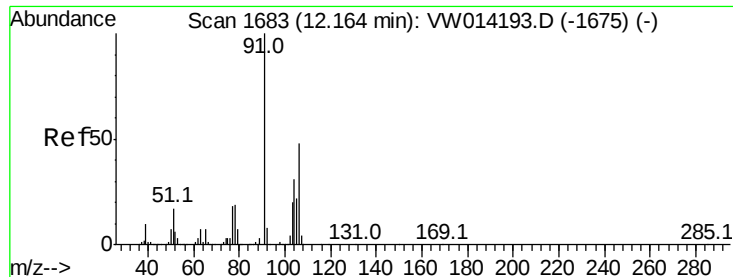
Tot Ion: 91 Resp: 618549
Ion Ratio Lower Upper
91 100
106 30.2 22.3 41.5



#54
m,p-Xylene
Concen: 24.623 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW014208.D
Acq: 02 Dec 2019 17:13

Tgt Ion:106 Resp: 240120
Ion Ratio Lower Upper
106 100
91 196.2 138.7 257.5





#55

o-xylene

Concen: 25.406 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

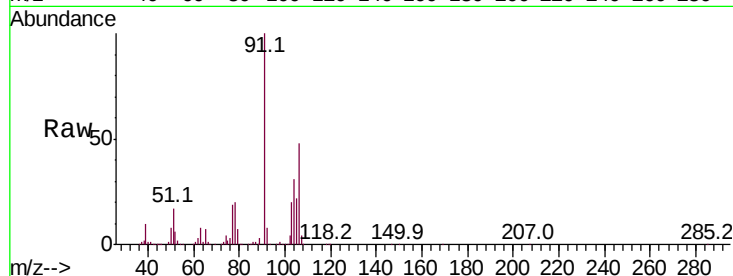
ClientSampleId :

Tot Ion:106 Resp: 232000

Ion Ratio Lower Upper

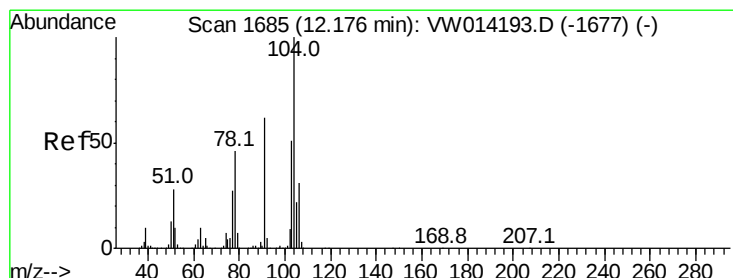
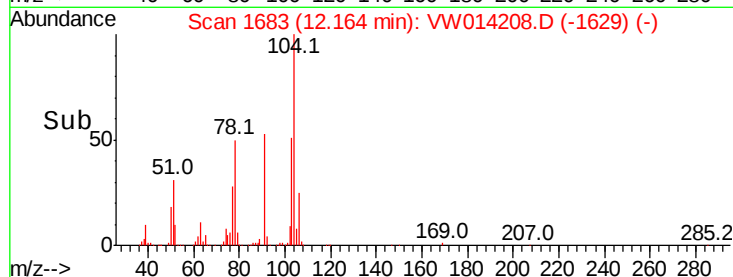
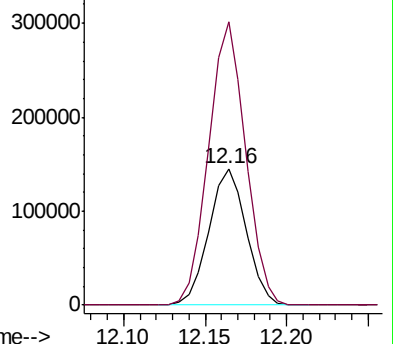
106 100

91 206.9 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.985 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW014208.D

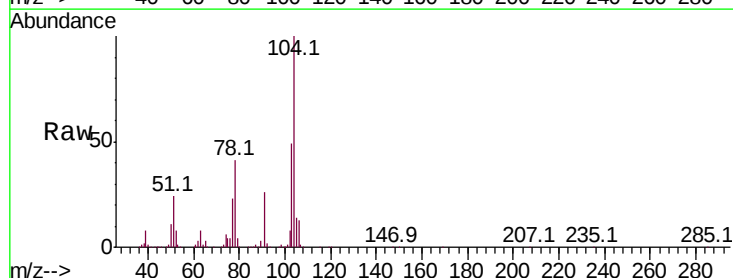
Acq: 02 Dec 2019 17:13

Tgt Ion:104 Resp: 400857

Ion Ratio Lower Upper

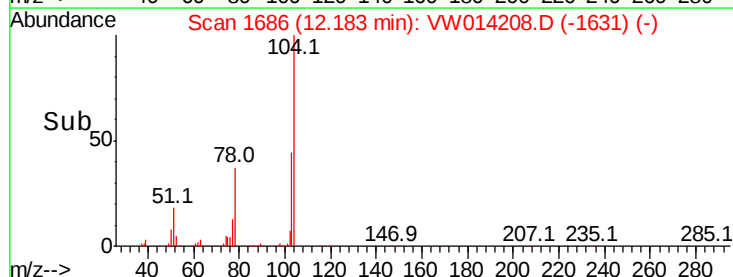
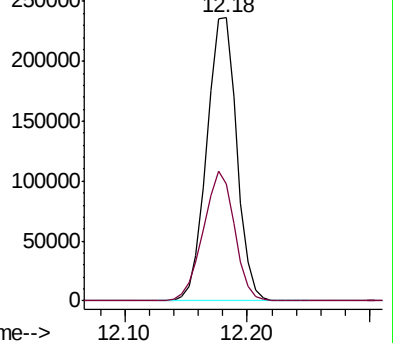
104 100

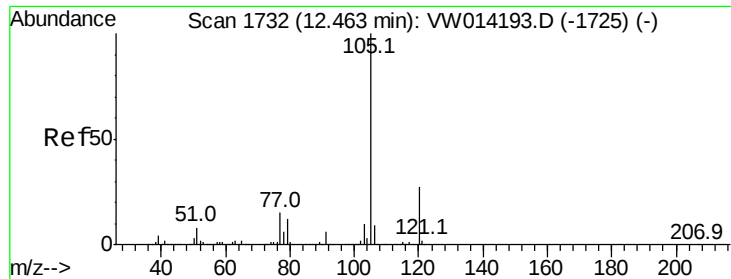
78 41.3 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.710 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

ClientSampled :

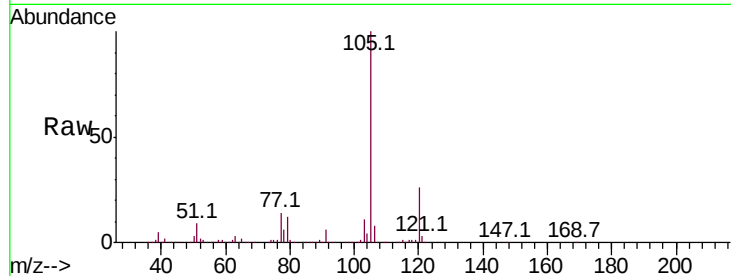
Tot Ion:105 Resp: 620402

Ion Ratio Lower Upper

105 100

120 26.7 21.6 32.4

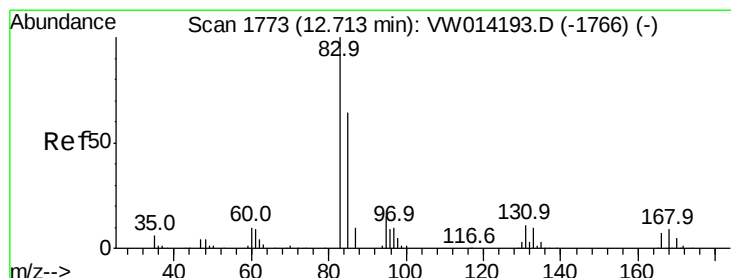
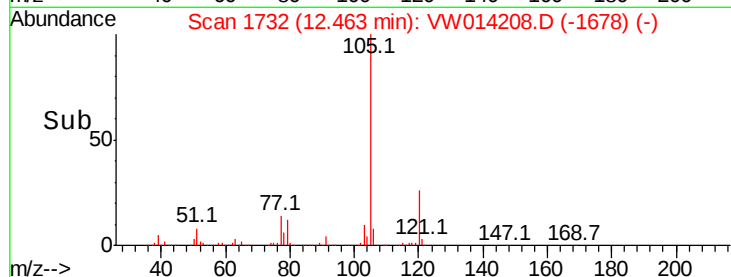
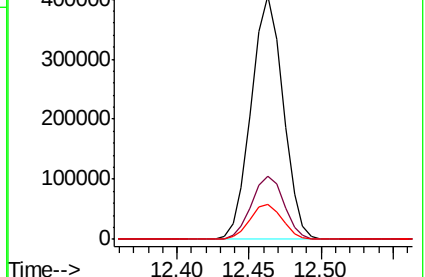
77 14.7 11.6 17.4



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: 30.618 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

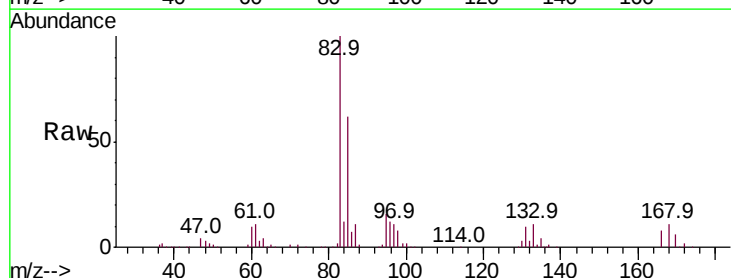
Tgt Ion: 83 Resp: 132609

Ion Ratio Lower Upper

83 100

85 61.7 43.7 81.1

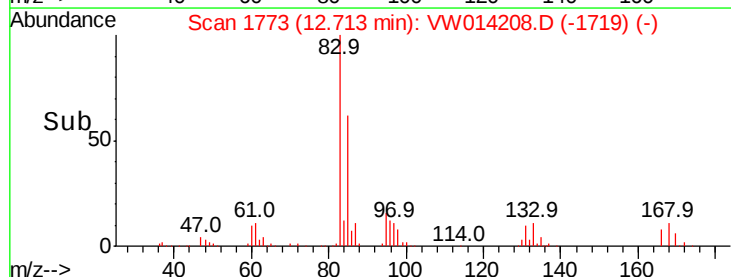
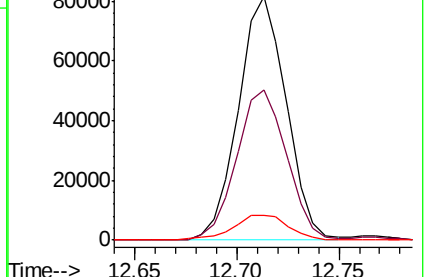
131 10.1 8.2 12.2

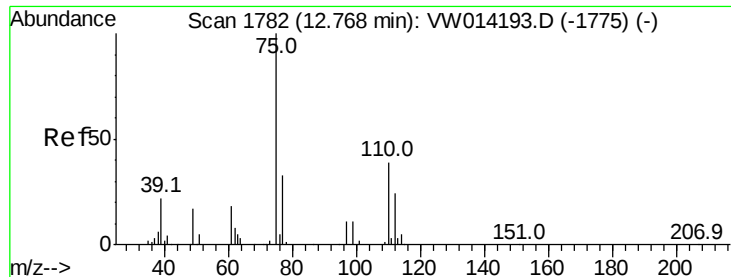


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 30.587 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

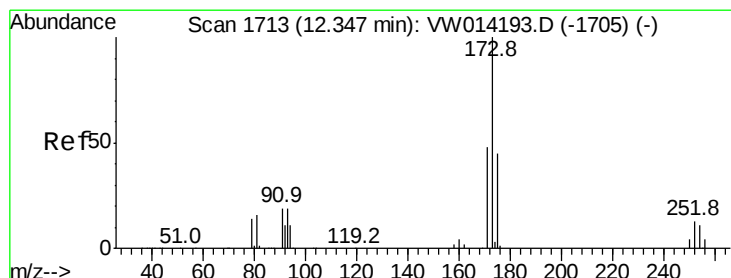
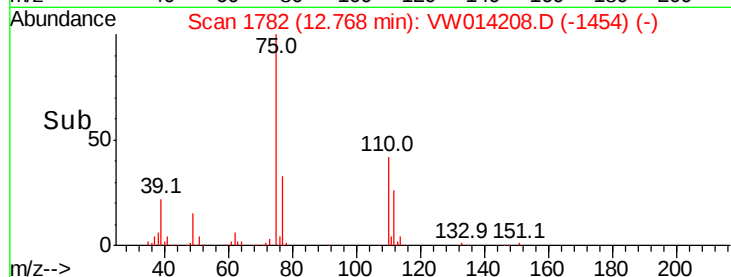
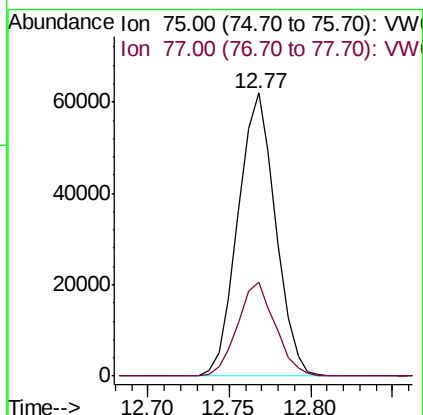
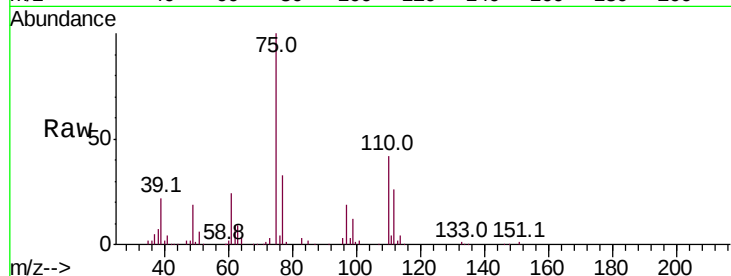
ClientSampleId :

Tot Ion: 75 Resp: 99634

Ion Ratio Lower Upper

75 100

77 33.3 25.9 38.9



#62

Bromoform

Concen: 26.891 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

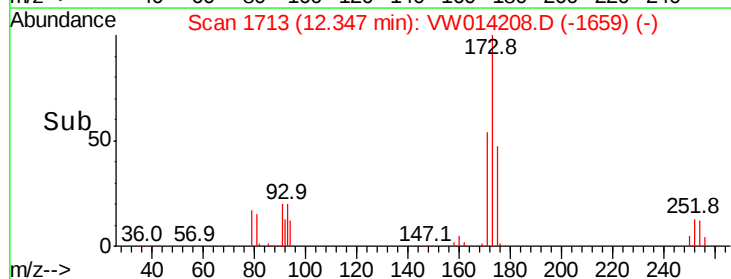
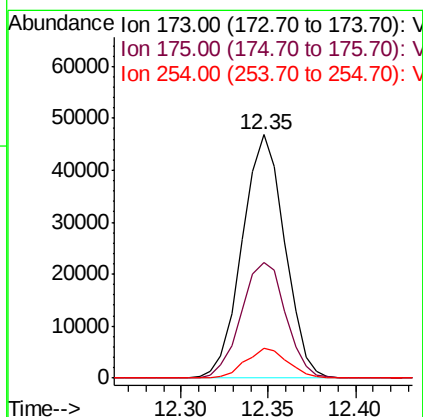
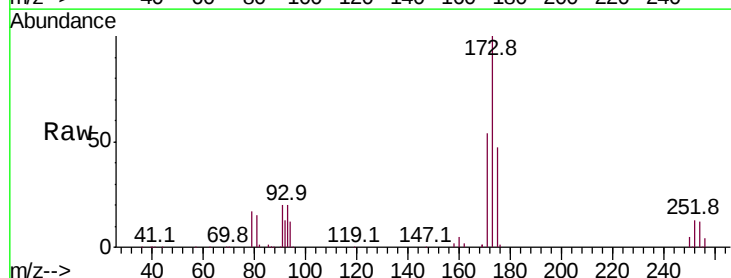
Tgt Ion: 173 Resp: 79356

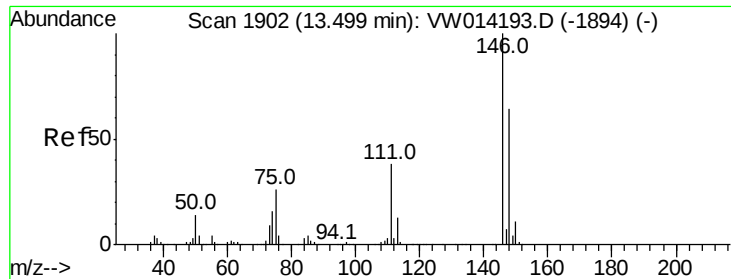
Ion Ratio Lower Upper

173 100

175 49.7 38.8 58.2

254 12.0 9.4 14.0

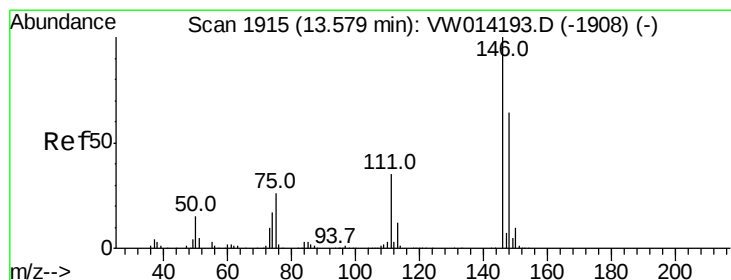
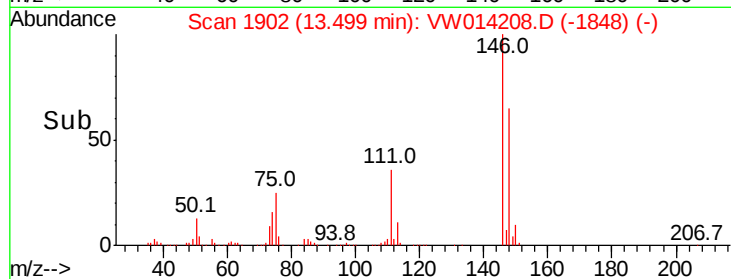
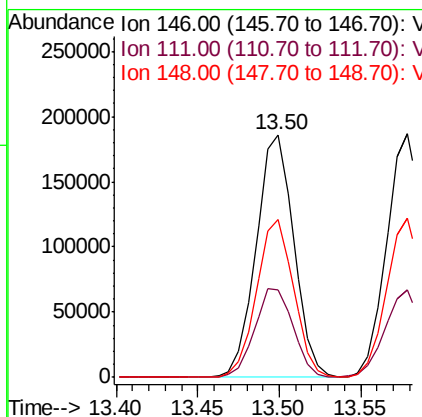
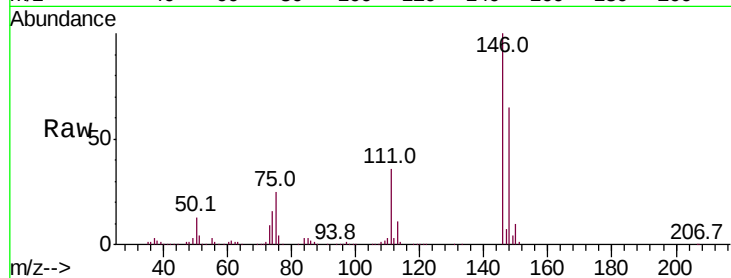




#63
 1,3-Dichlorobenzene
 Concen: 23.628 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

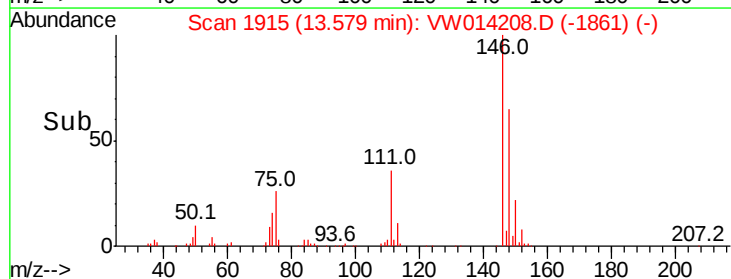
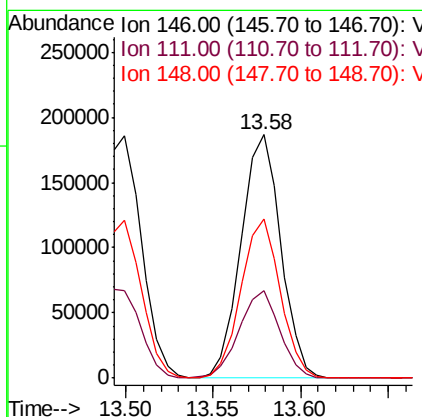
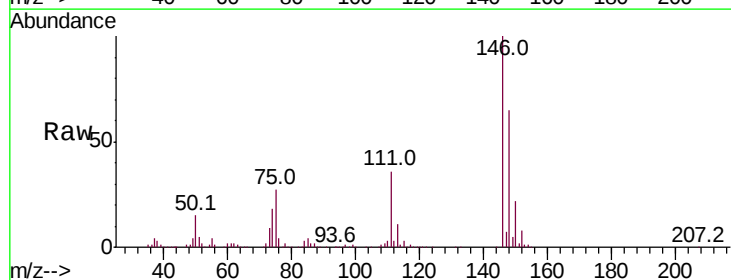
Instrument :
 MSVOA_W
 ClientSampleId :

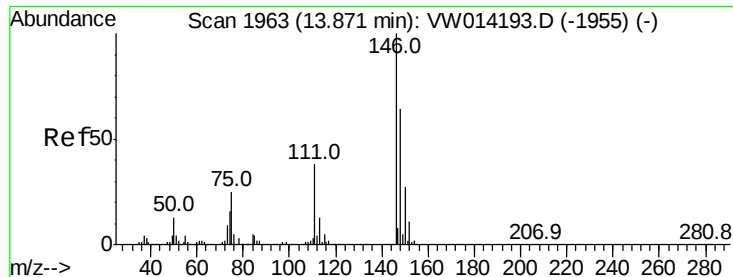
Tot Ion:146 Resp: 298754
 Ion Ratio Lower Upper
 146 100
 111 35.9 26.0 48.2
 148 65.4 44.7 82.9



#64
 1,4-Dichlorobenzene
 Concen: 23.728 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Tgt Ion:146 Resp: 296424
 Ion Ratio Lower Upper
 146 100
 111 35.8 24.9 46.3
 148 65.2 43.9 81.5





#65

1,2-Dichlorobenzene

Concen: 24.804 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

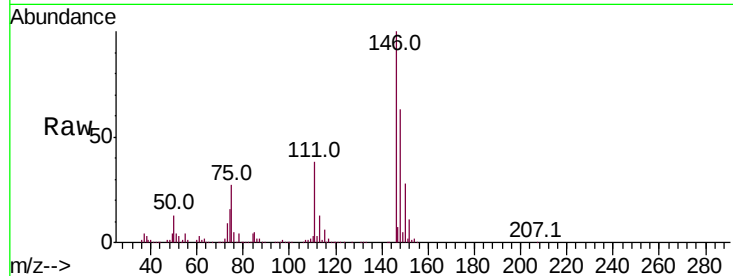
Tot Ion:146 Resp: 277719

Ion Ratio Lower Upper

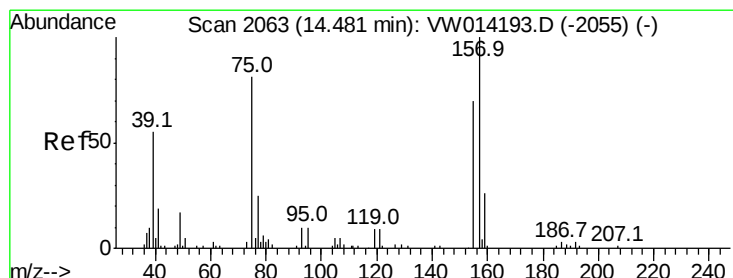
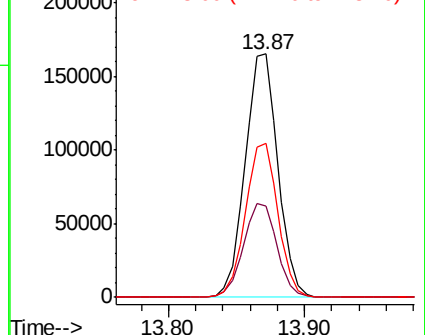
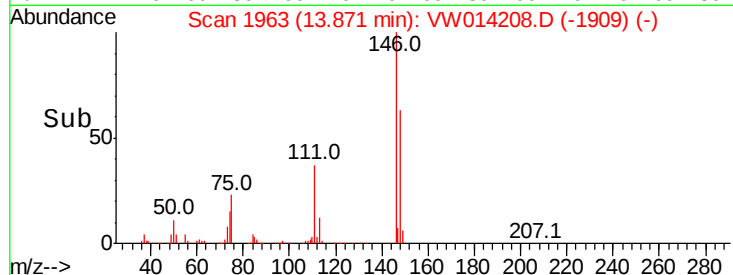
146 100

111 37.7 30.5 45.7

148 63.2 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: 28.591 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

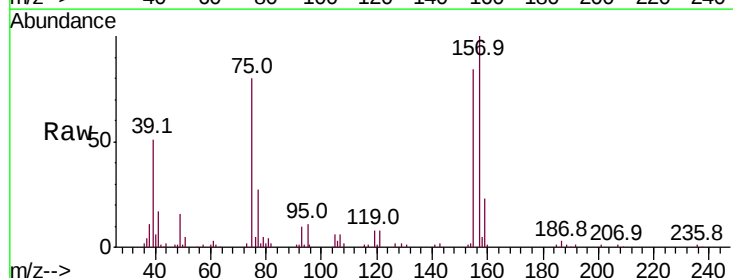
Tgt Ion: 75 Resp: 21801

Ion Ratio Lower Upper

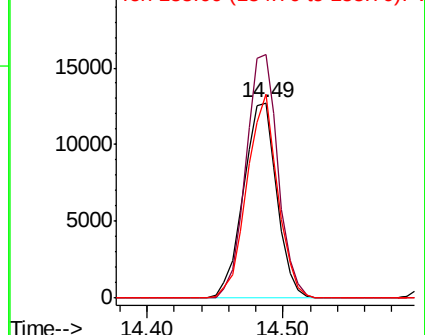
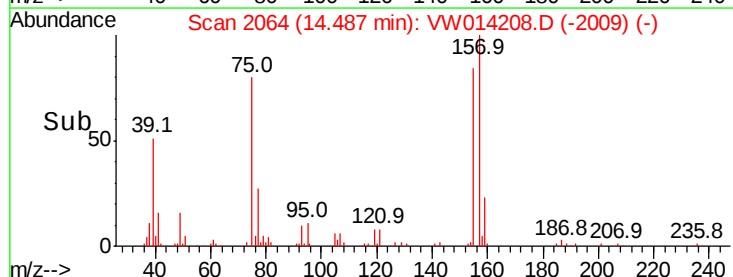
75 100

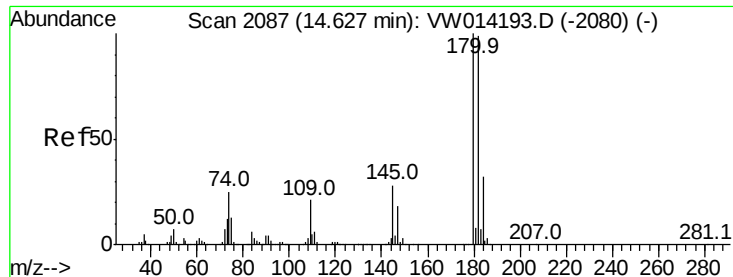
157 124.6 96.9 145.3

155 104.2 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

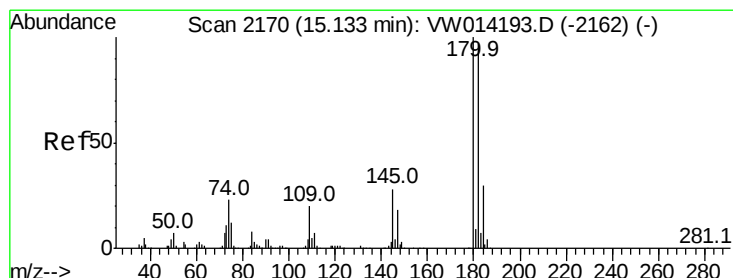
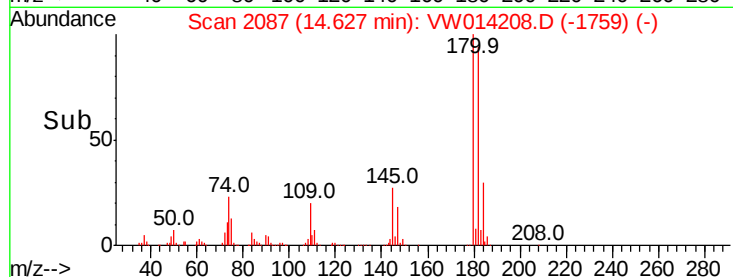
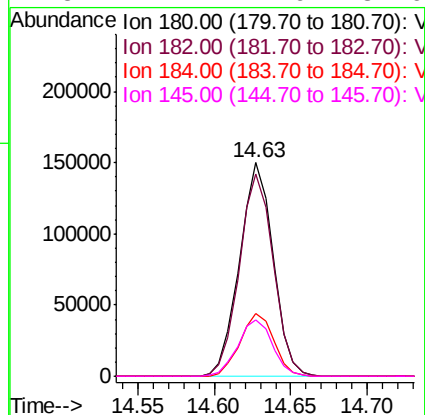
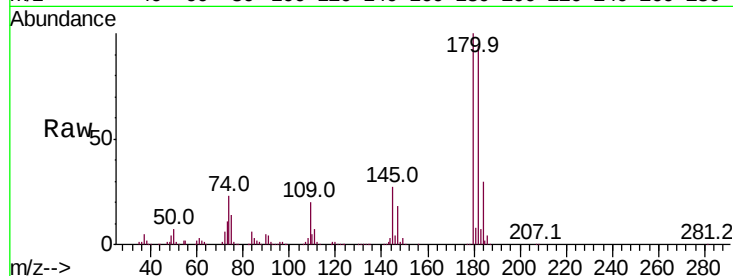




#67
 1,3,5-Trichlorobenzene
 Concen: 23.722 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

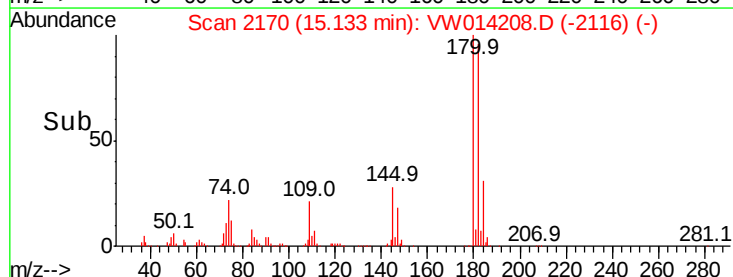
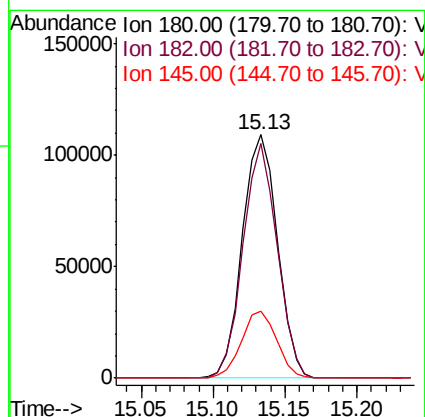
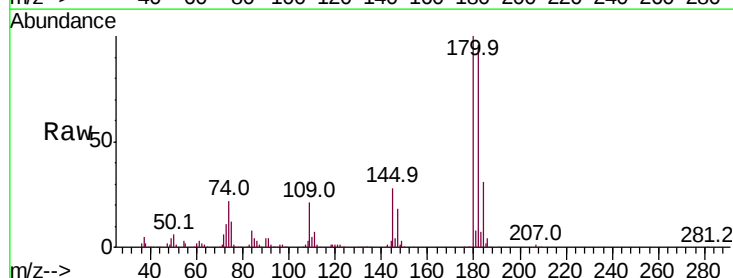
Instrument :
 MSVOA_W
 ClientSampleId :

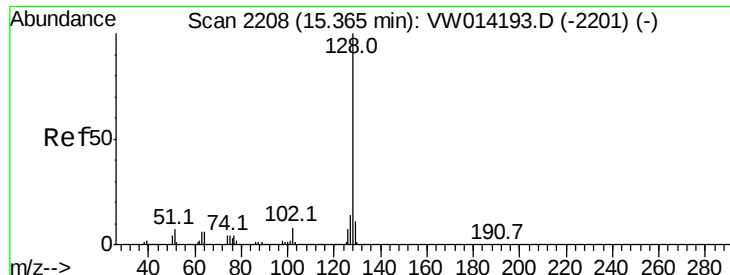
Tot Ion:180	Resp:	228582
Ion Ratio	Lower	Upper
180	100	
182	95.8	76.2 114.2
184	29.9	24.3 36.5
145	27.2	21.9 32.9



#68
 1,2,4-trichlorobenzene
 Concen: 24.400 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014208.D
 Acq: 02 Dec 2019 17:13

Tgt Ion:180	Resp:	184869
Ion Ratio	Lower	Upper
180	100	
182	93.7	75.8 113.8
145	27.5	22.4 33.6





#69

Naphthalene

Concen: 26.511 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

Instrument :

MSVOA_W

ClientSampled :

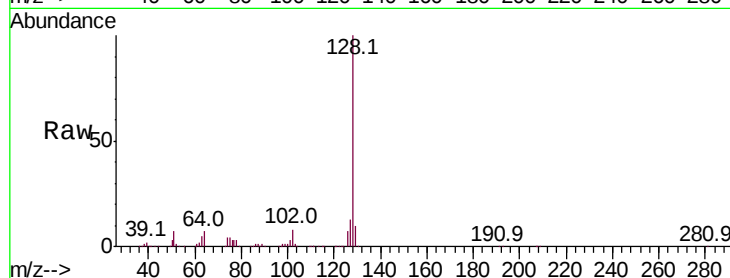
Tot Ion:128 Resp: 356858

Ion Ratio Lower Upper

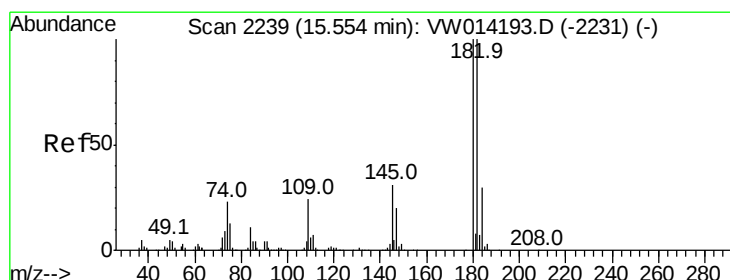
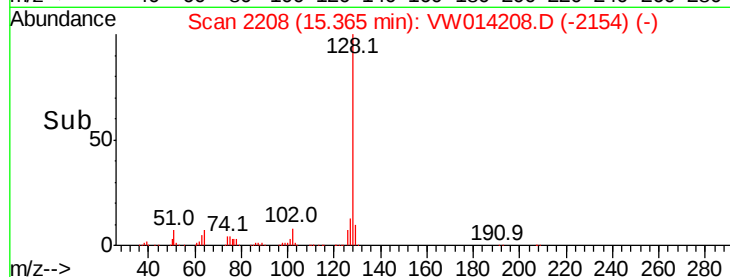
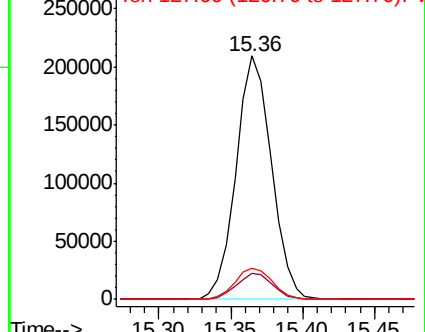
128 100

129 11.1 8.8 13.2

127 13.5 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: 25.490 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014208.D

Acq: 02 Dec 2019 17:13

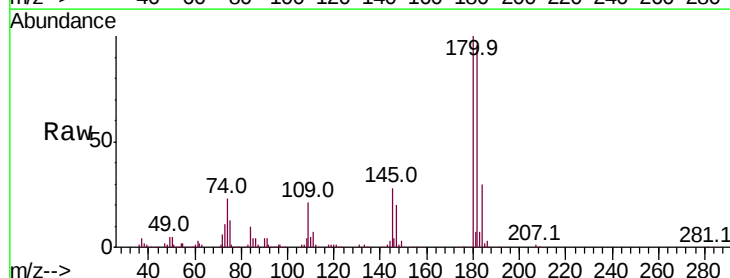
Tgt Ion:180 Resp: 170442

Ion Ratio Lower Upper

180 100

182 95.4 75.8 113.6

145 29.5 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

