

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081119\
 Data File : VW011814.D
 Acq On : 09 Aug 2019 15:40
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.03G/10ML/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

Quant Time: Aug 10 03:47:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM073019S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Aug 10 03:43:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	332327	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	294049	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	142553	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	93620	20.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.04%
7) Chloroethane-d5	2.89	69	76068	22.57	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.28%
10) 1,1-Dichloroethene-d2	4.03	63	249085	23.22	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.88%
20) 2-Butanone-d5	7.07	46	76890	36.49	ug/L	-0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	72.98%
24) Chloroform-d	7.65	84	220807	24.19	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.76%
26) 1,2-Dichloroethane-d4	8.31	65	124782	23.10	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.40%
29) Benzene-d6	8.27	84	428841	23.19	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.76%
33) 1,2-Dichloropropane-d6	9.27	67	143483	24.04	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.16%
37) Toluene-d8	10.32	98	382432	23.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.20%
38) trans-1,3-Dichloropropene-	10.58	79	56577	21.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.52%
39) 2-Hexanone-d5	10.93	63	52329	37.53	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	75.06%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	102068	20.59	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	82.36%
61) 1,2-Dichlorobenzene-d4	13.85	152	125218	22.79	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	98026	26.319 ug/L	97
3) Chloromethane	2.21	50	119264	24.618 ug/L	99
5) Vinyl chloride	2.36	62	160072	25.897 ug/L	98
6) Bromomethane	2.78	94	76865	26.378 ug/L	99
8) Chloroethane	2.92	64	87288	27.002 ug/L	99
9) Trichlorofluoromethane	3.26	101	81771	25.970 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	131176	27.480 ug/L	97
12) 1,1-Dichloroethene	4.04	96	125934	26.384 ug/L	94
13) Acetone	4.12	43	79734	35.332 ug/L	97
14) Carbon disulfide	4.39	76	389286	25.041 ug/L	99
15) Methyl Acetate	4.67	43	73420	19.899 ug/L	100
16) Methylene chloride	4.92	84	137117	26.439 ug/L	97
17) Methyl tert-butyl Ether	5.42	73	197134	24.801 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	130094	26.381 ug/L	99
19) 1,1-Dichloroethane	6.21	63	270026	27.410 ug/L	100
21) 2-Butanone	7.17	43	104570	36.959 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	139806	27.098 ug/L	98

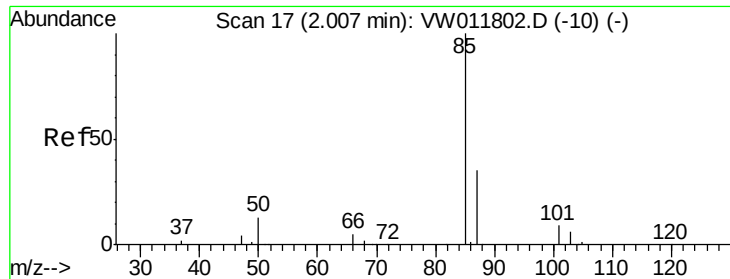
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081119\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	56031	25.525	ug/L	96
25) Chloroform	7.68	83	250738	27.614	ug/L	99
27) 1,2-Dichloroethane	8.40	62	176269	26.224	ug/L	98
30) Cyclohexane	7.96	56	276328	27.035	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	199250	27.809	ug/L	99
32) Carbon tetrachloride	8.07	117	185457	27.514	ug/L	100
34) Benzene	8.32	78	562040	27.275	ug/L	100
35) Trichloroethene	9.09	95	140801	26.916	ug/L	99
36) Methylcyclohexane	9.34	83	259906	27.387	ug/L	99
40) 1,2-Dichloropropane	9.37	63	151603	27.562	ug/L	100
41) Bromodichloromethane	9.65	83	178186	27.453	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	224303	27.264	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	210178	42.174	ug/L	99
44) Toluene	10.39	91	579555	27.683	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	177918	25.992	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	93261	24.869	ug/L	97
47) Tetrachloroethene	10.86	164	107152	26.817	ug/L	96
49) 2-Hexanone	10.97	43	154984	40.365	ug/L	100
50) Dibromochloromethane	11.13	129	108205	26.178	ug/L	94
51) 1,2-Dibromoethane	11.23	107	87273	23.916	ug/L	99
52) Chlorobenzene	11.66	112	346736	27.452	ug/L	100
53) Ethylbenzene	11.73	91	658222	28.193	ug/L	100
54) m,p-Xylene	11.84	106	237824	28.014	ug/L	95
55) o-xylene	12.16	106	226091	28.298	ug/L	97
56) Styrene	12.18	104	386133	28.427	ug/L	99
57) Isopropylbenzene	12.46	105	629242	28.628	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	111816	22.437	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	84867	22.080	ug/L	98
62) Bromoform	12.35	173	58080	22.773	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	263217	27.205	ug/L	100
64) 1,4-Dichlorobenzene	13.58	146	262253	26.991	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	235865	26.922	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	18220	20.093	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	200089	28.097	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	158472	27.631	ug/L	99
69) Naphthalene	15.37	128	269117	23.301	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	139671	26.295	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 26.319 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

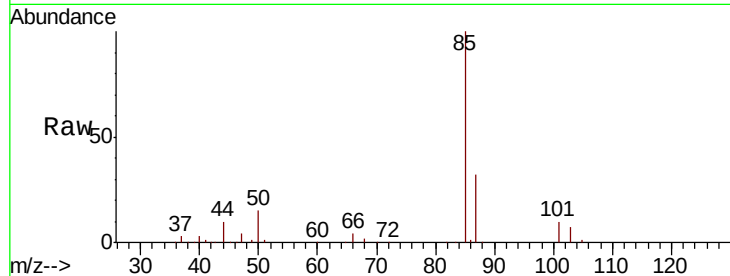
VSTD02511

Tgt Ion: 85 Resp: 98026

Ion Ratio Lower Upper

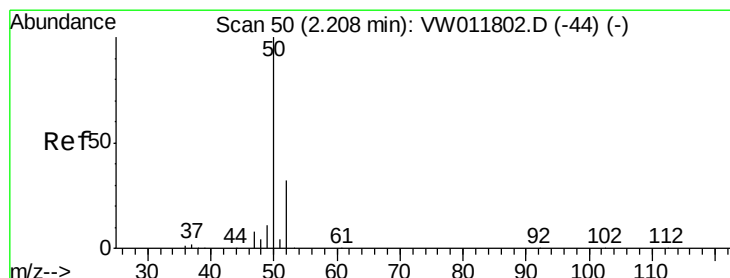
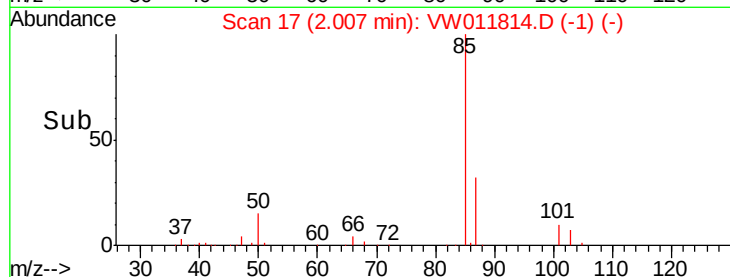
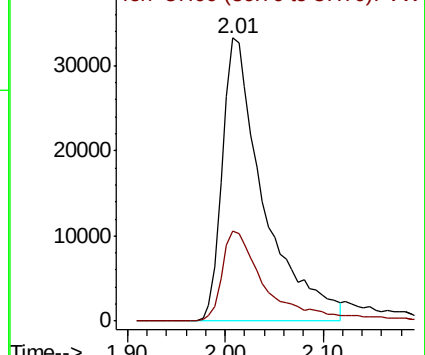
85 100

87 29.7 21.8 40.6



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 24.618 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW011814.D

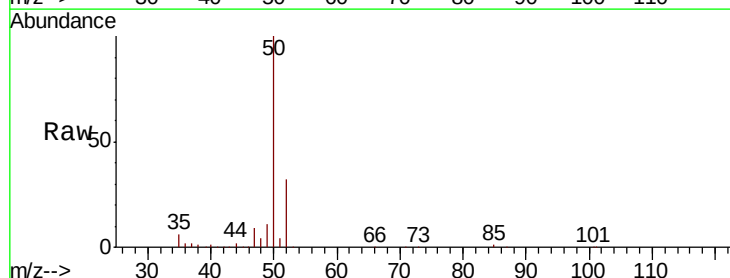
Acq: 09 Aug 2019 15:40

Tgt Ion: 50 Resp: 119264

Ion Ratio Lower Upper

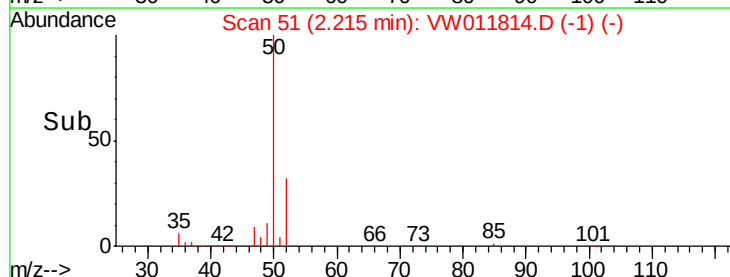
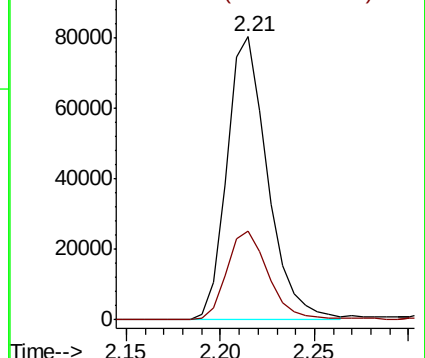
50 100

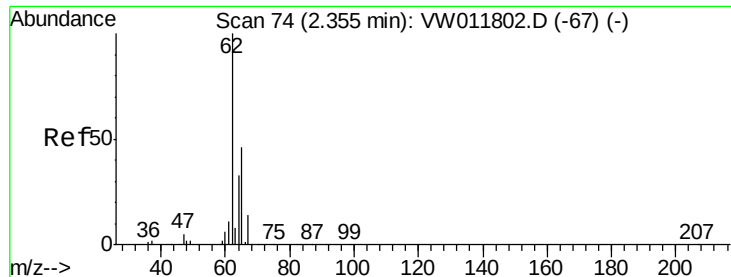
52 31.6 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 25.897 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.01 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

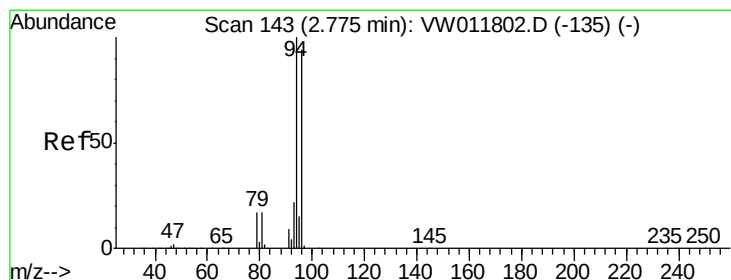
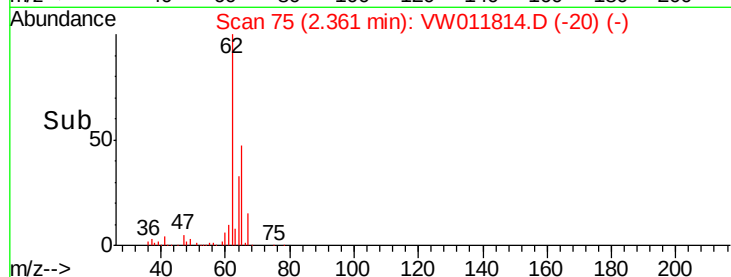
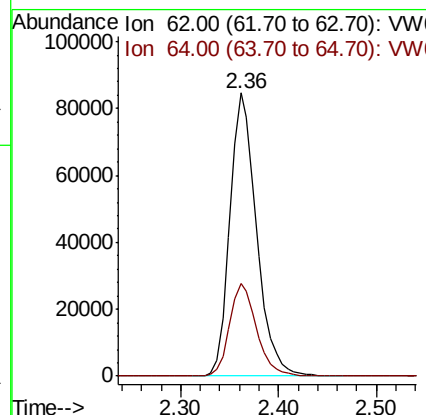
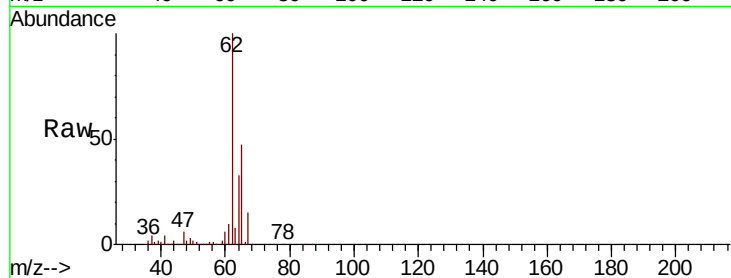
VSTD02511

Tgt Ion: 62 Resp: 160072

Ion Ratio Lower Upper

62 100

64 32.6 23.6 43.8



#6

Bromomethane

Concen: 26.378 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW011814.D

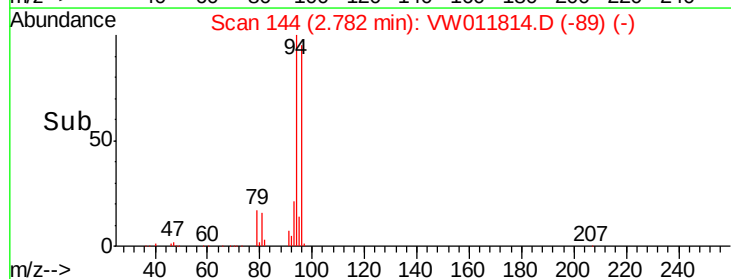
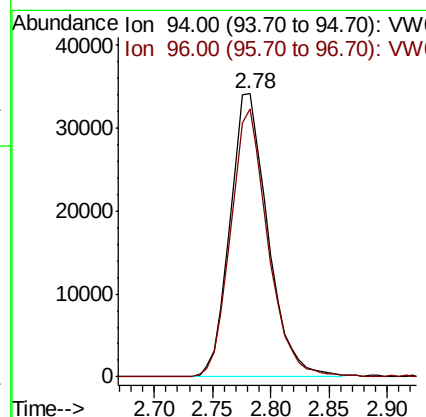
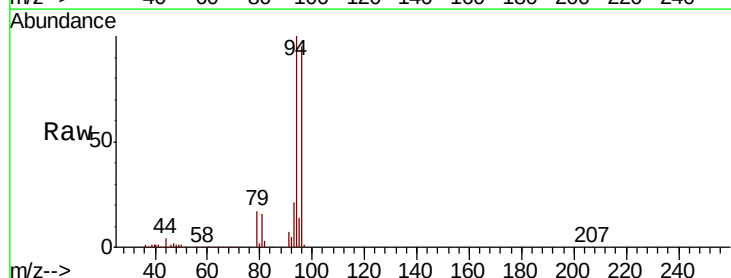
Acq: 09 Aug 2019 15:40

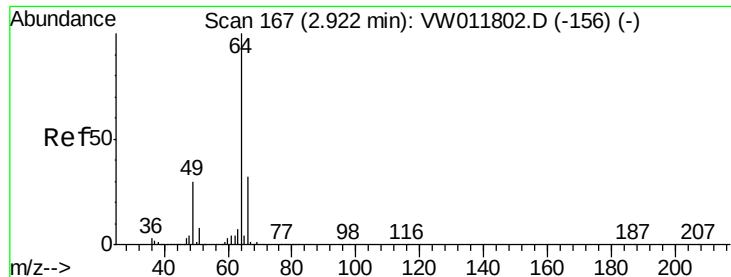
Tgt Ion: 94 Resp: 76865

Ion Ratio Lower Upper

94 100

96 93.8 9.3 175.9





#8

Chloroethane

Concen: 27.002 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

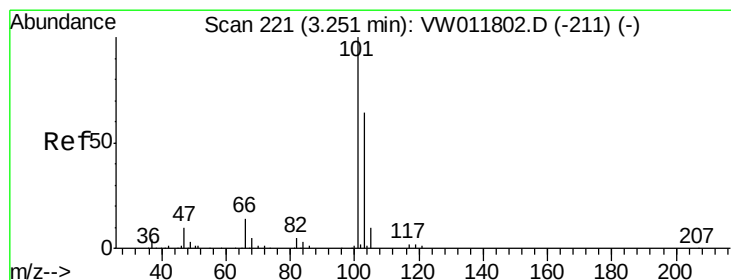
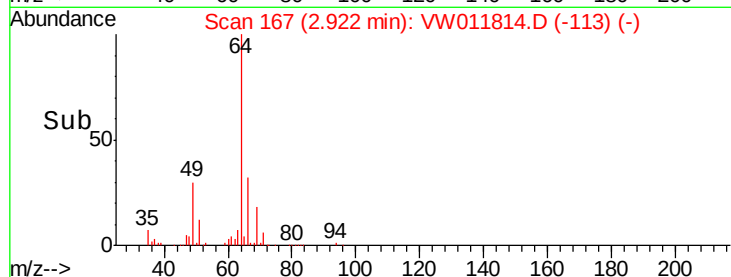
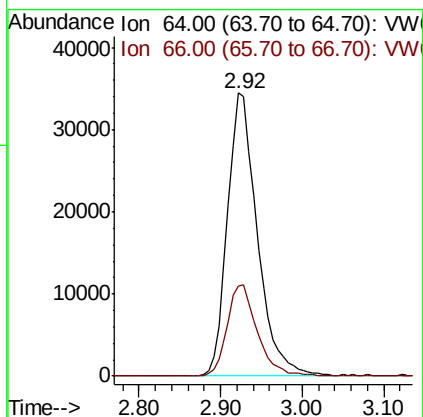
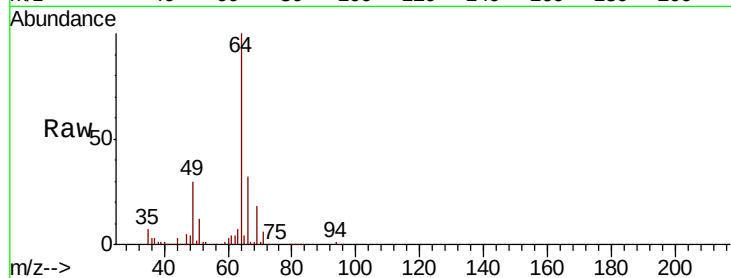
VSTD02511

Tgt Ion: 64 Resp: 87288

Ion Ratio Lower Upper

64 100

66 31.7 22.0 40.8



#9

Trichlorofluoromethane

Concen: 25.970 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW011814.D

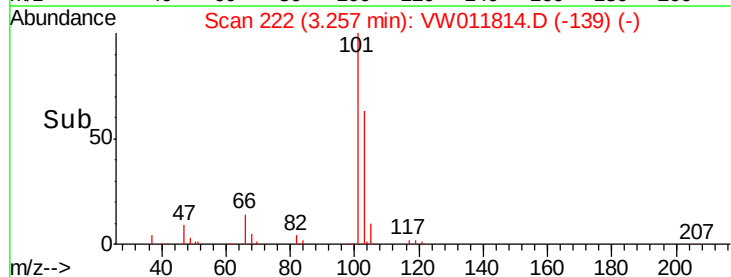
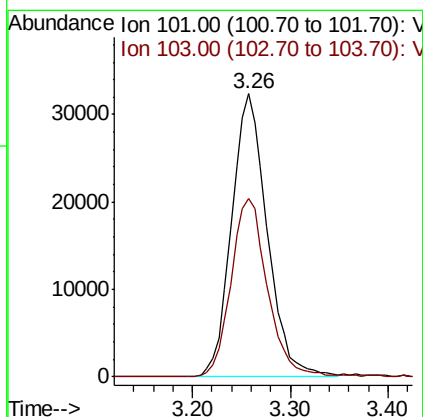
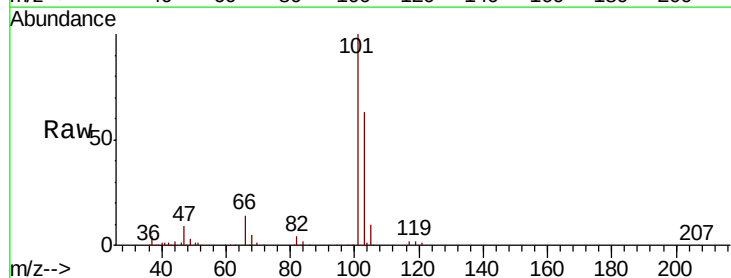
Acq: 09 Aug 2019 15:40

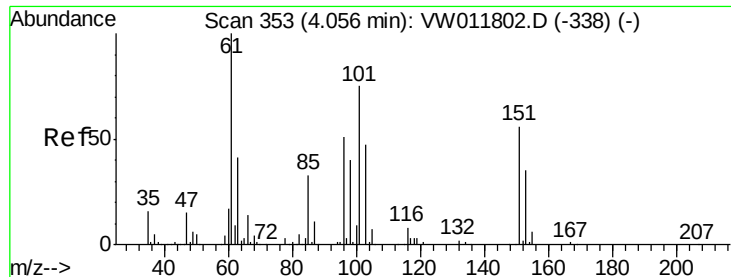
Tgt Ion: 101 Resp: 81771

Ion Ratio Lower Upper

101 100

103 64.3 44.3 82.3





#11

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

Concen: 27.480 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

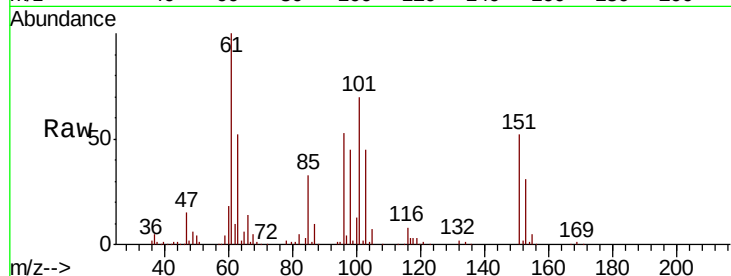
Tgt Ion:101 Resp: 131176

Ion Ratio Lower Upper

101 100

85 44.3 37.0 55.4

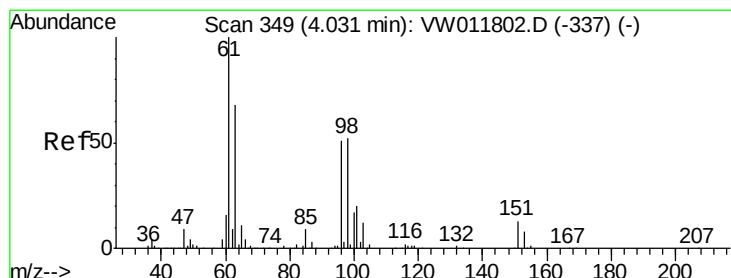
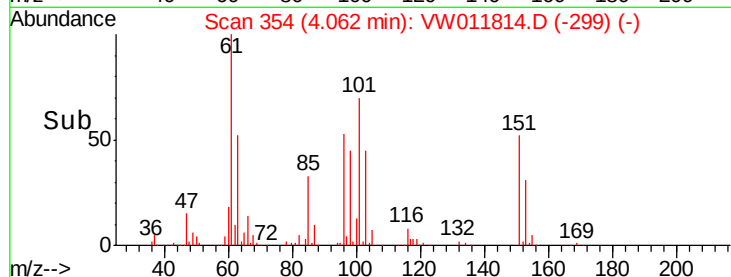
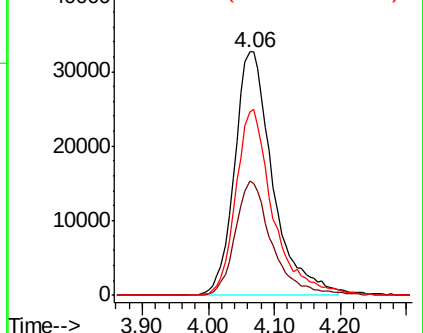
151 73.9 60.8 91.2



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: 26.384 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

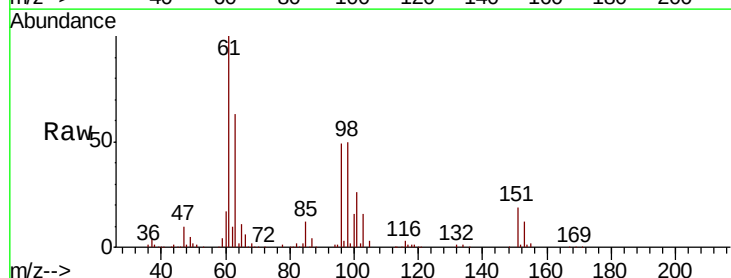
Tgt Ion: 96 Resp: 125934

Ion Ratio Lower Upper

96 100

61 204.8 135.0 250.8

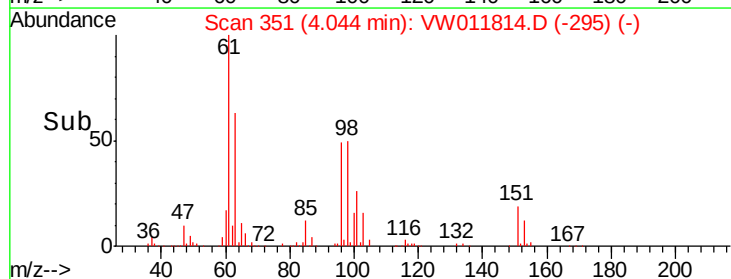
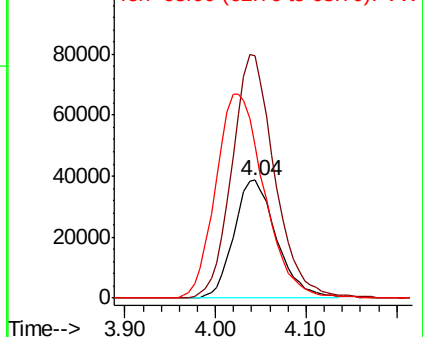
63 129.5 89.2 165.8

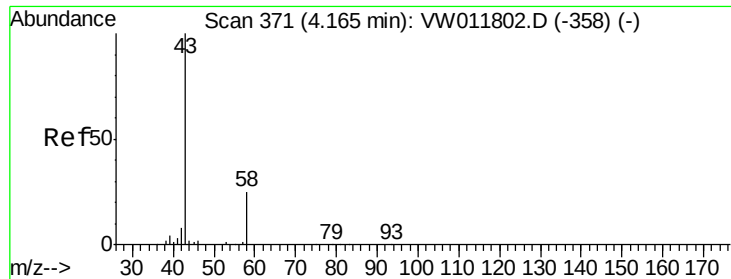


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 35.332 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.05 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

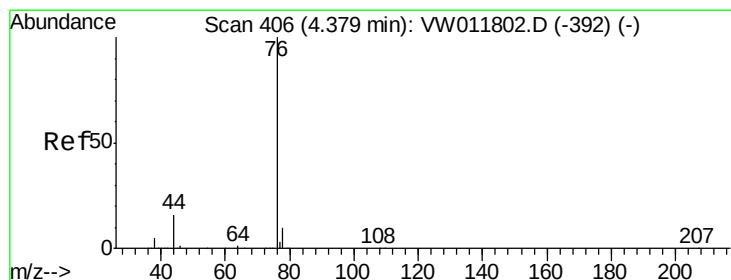
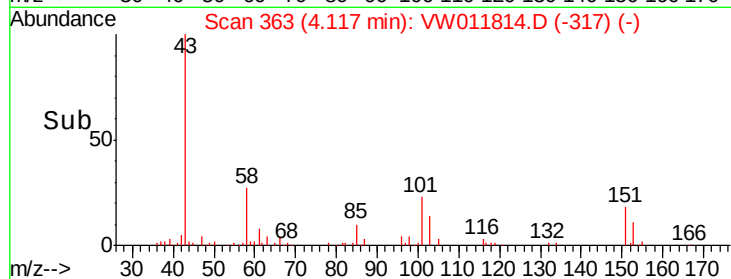
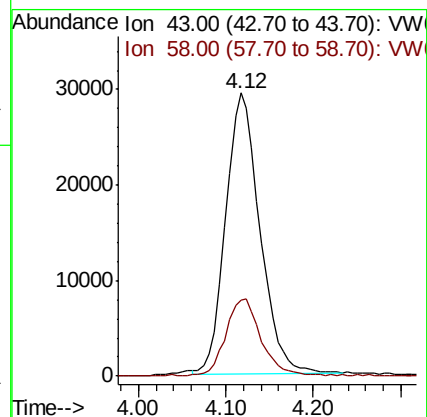
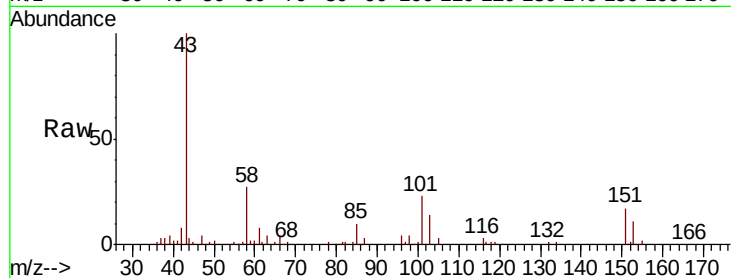
VSTD02511

Tgt Ion: 43 Resp: 79734

Ion Ratio Lower Upper

43 100

58 28.3 0.0 53.4



#14

Carbon disulfide

Concen: 25.041 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW011814.D

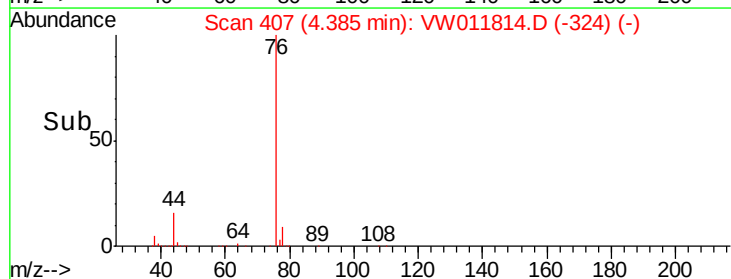
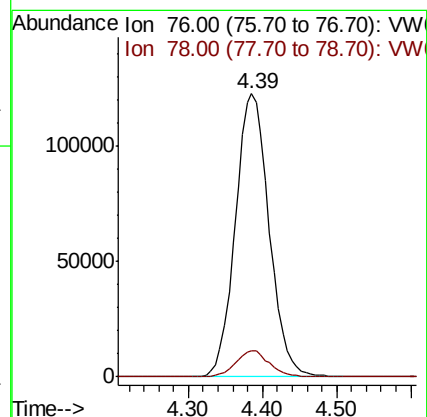
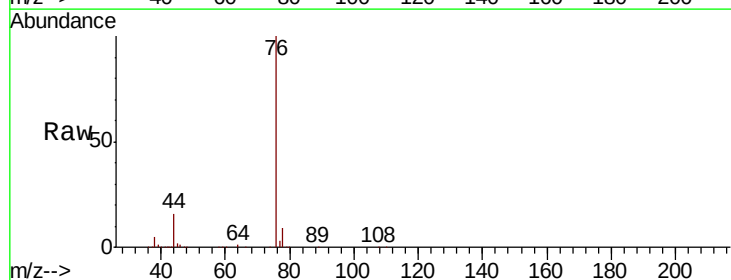
Acq: 09 Aug 2019 15:40

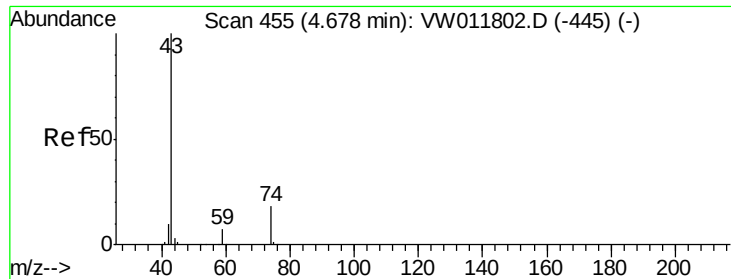
Tgt Ion: 76 Resp: 389286

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6

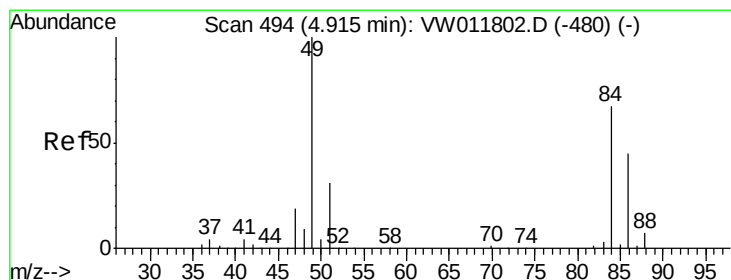
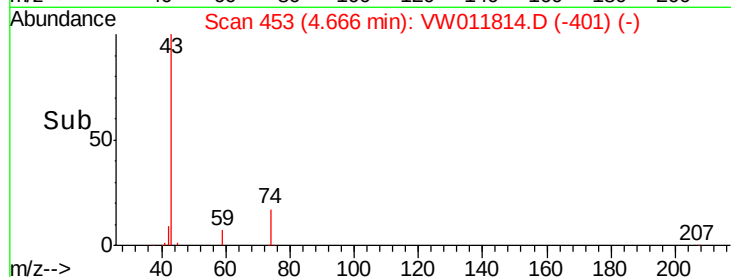
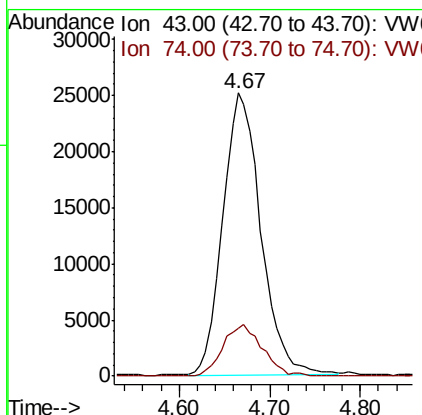
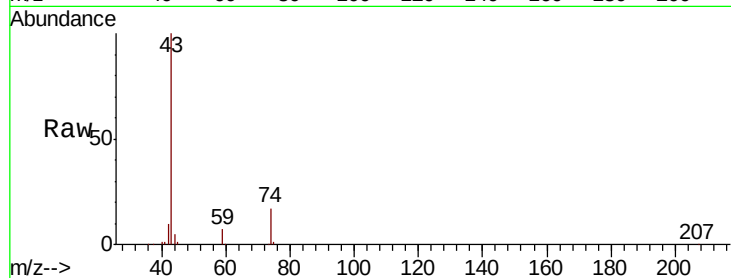




#15
Methyl Acetate
Concen: 19.899 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

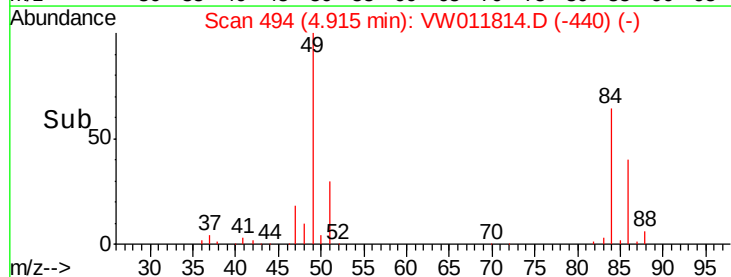
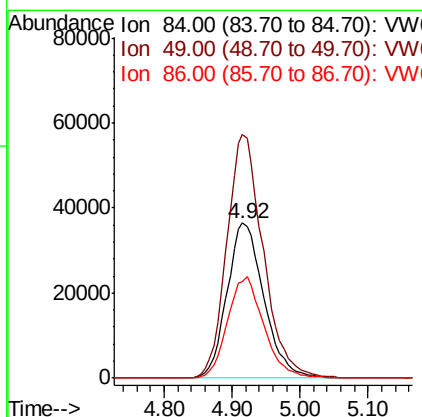
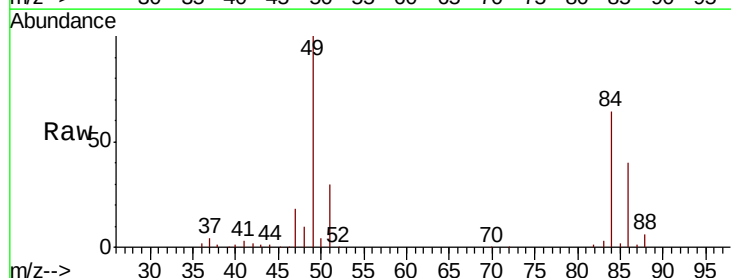
Instrument :
MSVOA_W
ClientSampled :
VSTD02511

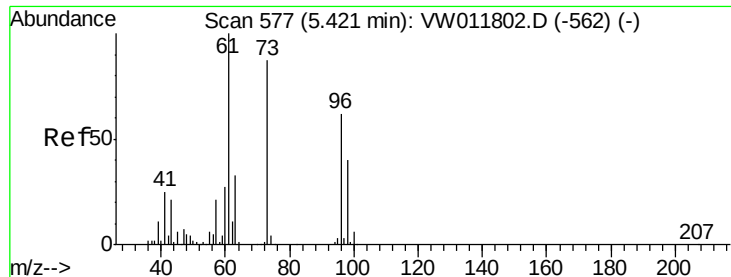
Tgt Ion: 43 Resp: 73420
Ion Ratio Lower Upper
43 100
74 18.6 15.0 22.4



#16
Methylene chloride
Concen: 26.439 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

Tgt Ion: 84 Resp: 137117
Ion Ratio Lower Upper
84 100
49 157.0 106.8 198.4
86 62.4 42.8 79.4

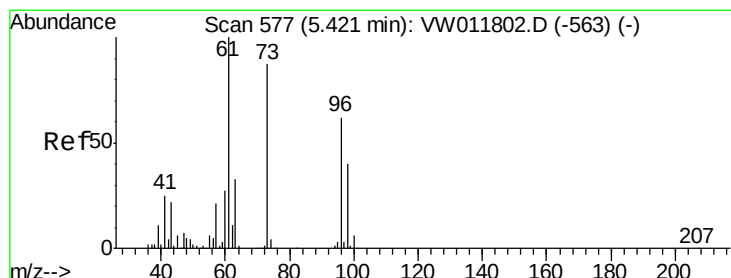
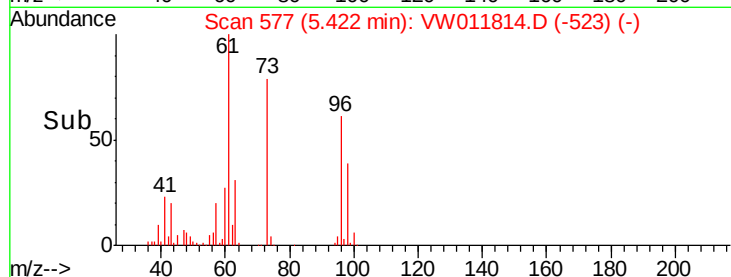
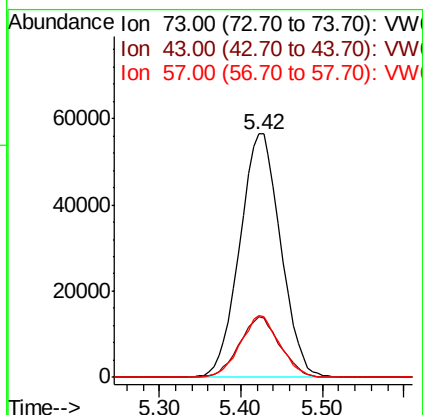
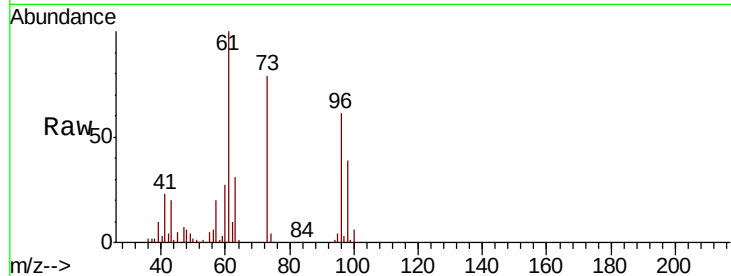




#17
Methyl tert-butyl Ether
Concen: 24.801 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

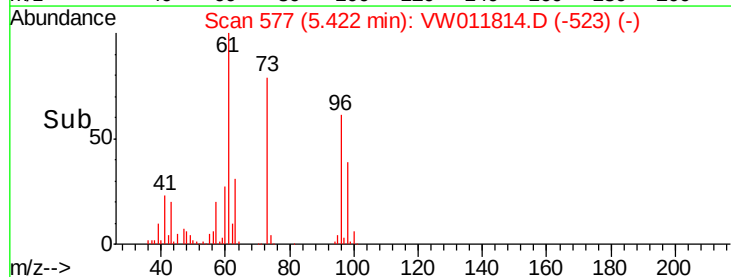
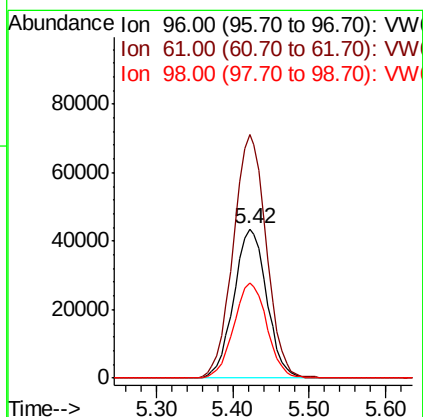
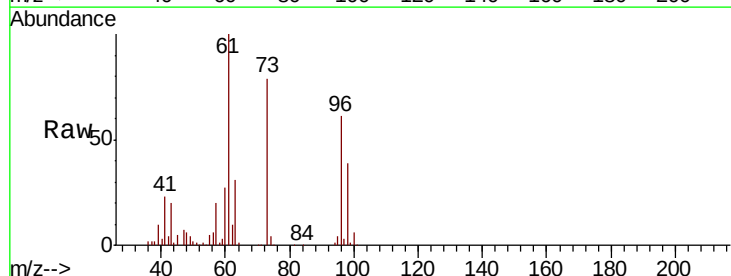
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

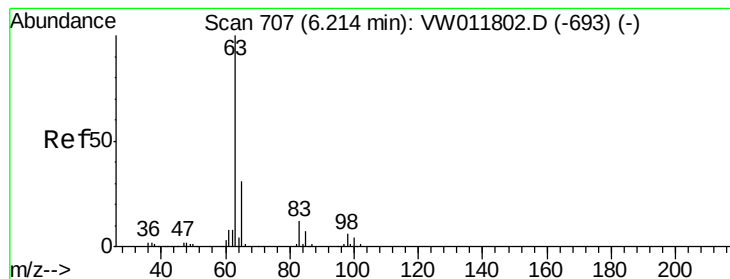
Tgt Ion: 73 Resp: 197134
Ion Ratio Lower Upper
73 100
43 24.6 19.3 28.9
57 24.2 19.7 29.5



#18
trans-1,2-Dichloroethene
Concen: 26.381 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

Tgt Ion: 96 Resp: 130094
Ion Ratio Lower Upper
96 100
61 163.2 114.2 212.0
98 63.7 45.6 84.6





#19

1,1-Dichloroethane

Concen: 27.410 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

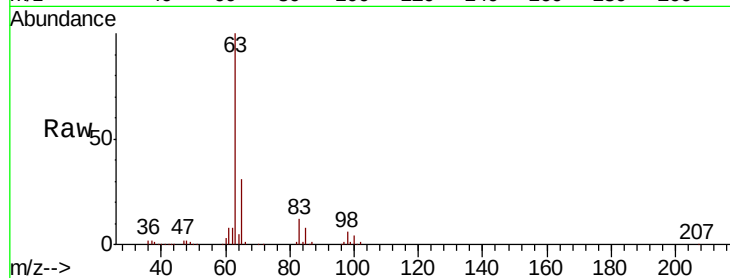
Tgt Ion: 63 Resp: 270026

Ion Ratio Lower Upper

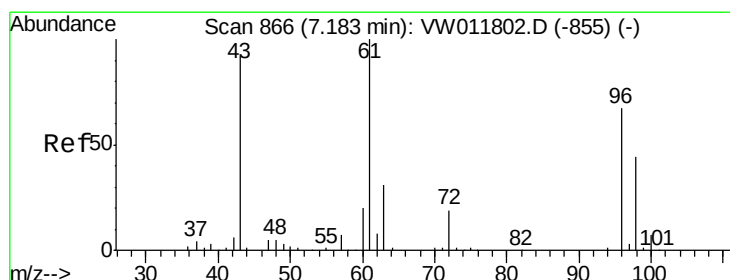
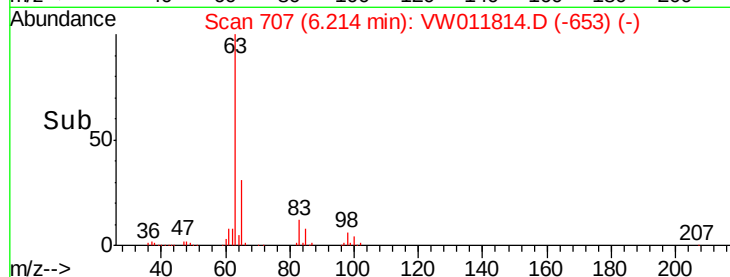
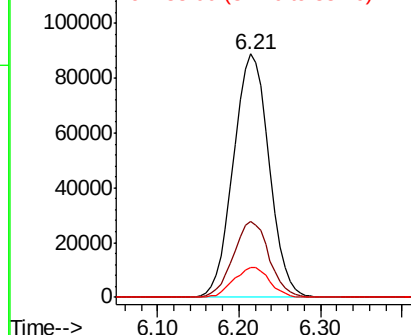
63 100

65 31.2 21.7 40.3

83 12.1 8.4 15.6



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



#21

2-Butanone

Concen: 36.959 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW011814.D

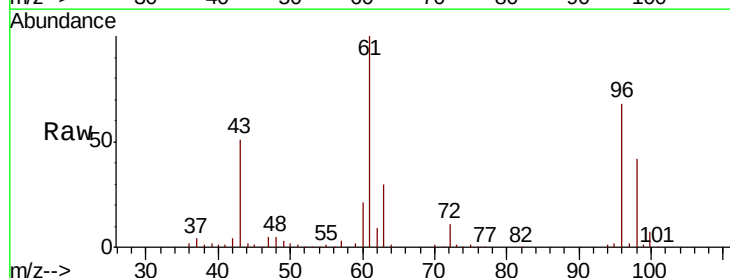
Acq: 09 Aug 2019 15:40

Tgt Ion: 43 Resp: 104570

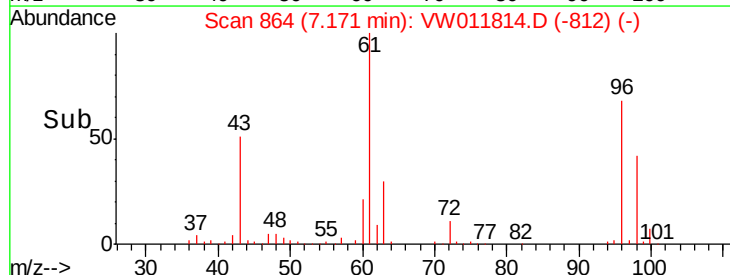
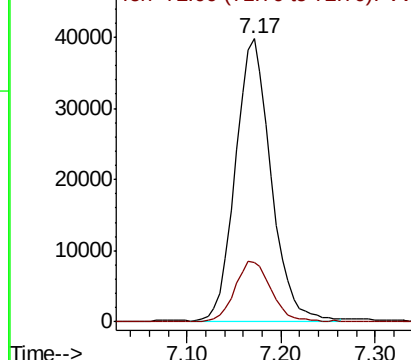
Ion Ratio Lower Upper

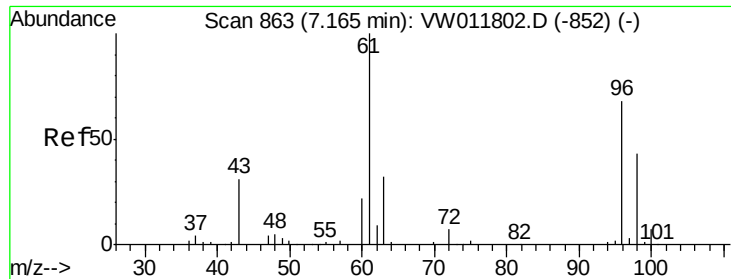
43 100

72 22.0 10.7 32.1



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





#22

cis-1,2-Dichloroethene

Concen: 27.098 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

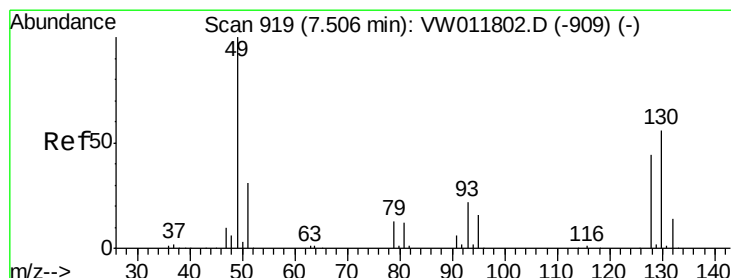
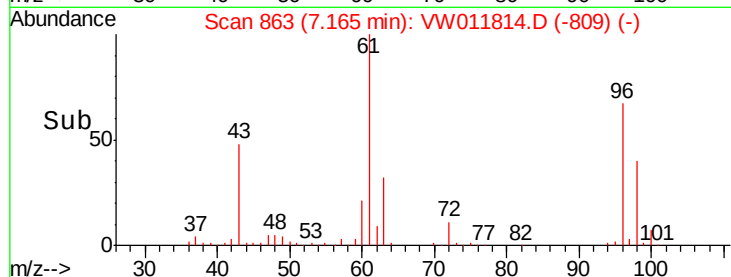
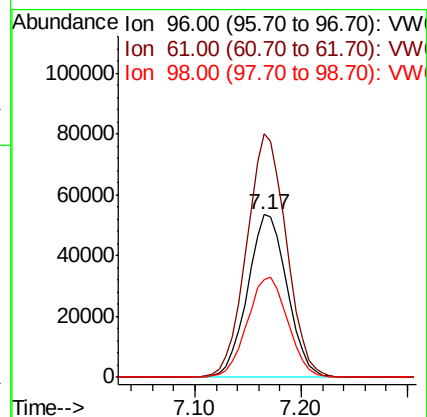
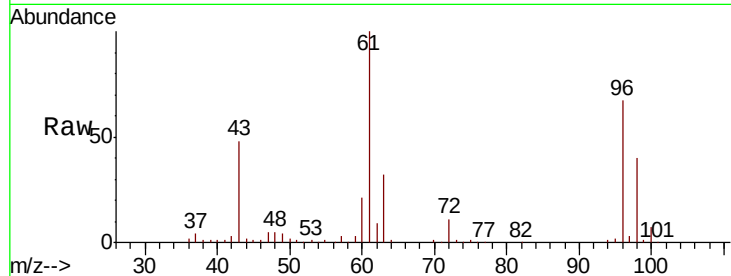
Tgt Ion: 96 Resp: 139806

Ion Ratio Lower Upper

96 100

61 149.6 103.9 192.9

98 59.8 43.5 80.9



#23

Bromochloromethane

Concen: 25.525 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Tgt Ion: 128 Resp: 56031

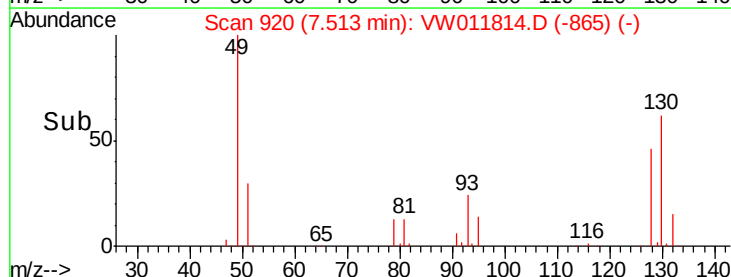
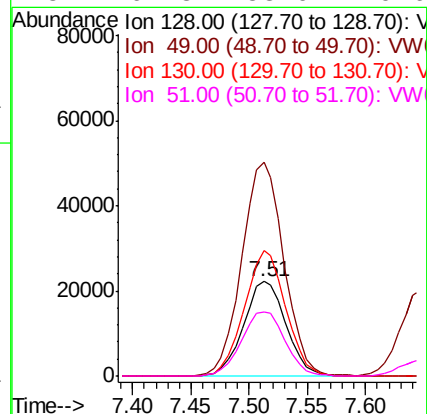
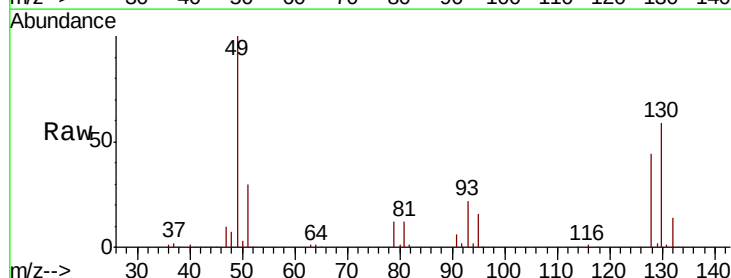
Ion Ratio Lower Upper

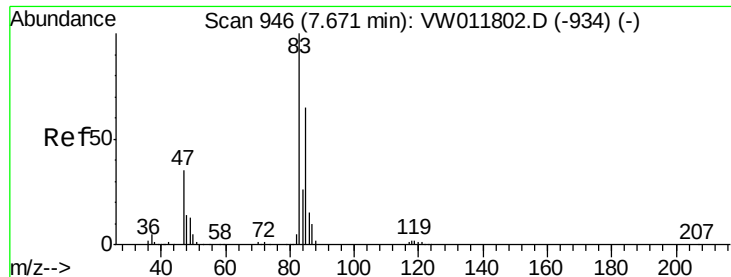
128 100

49 226.4 153.6 285.3

130 133.1 89.5 166.3

51 67.3 53.0 79.6

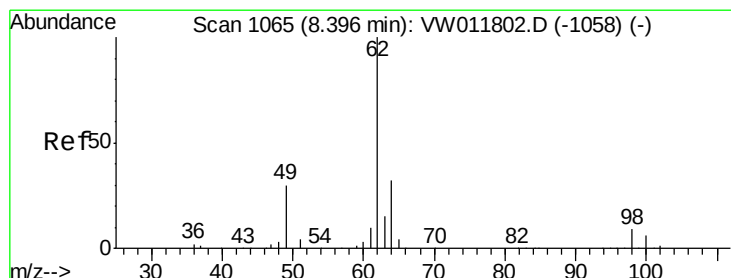
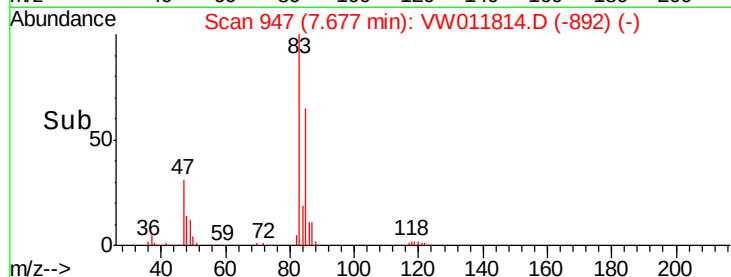
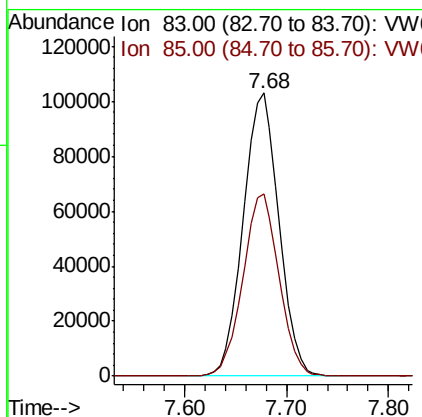
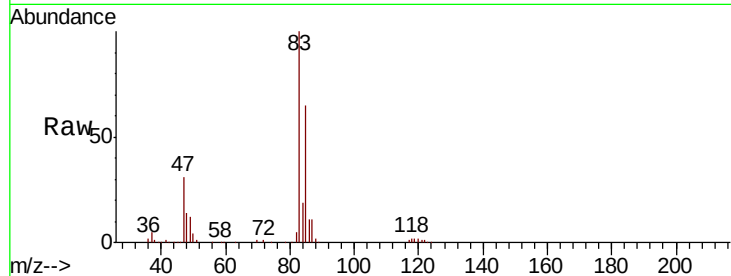




#25
Chloroform
Concen: 27.614 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

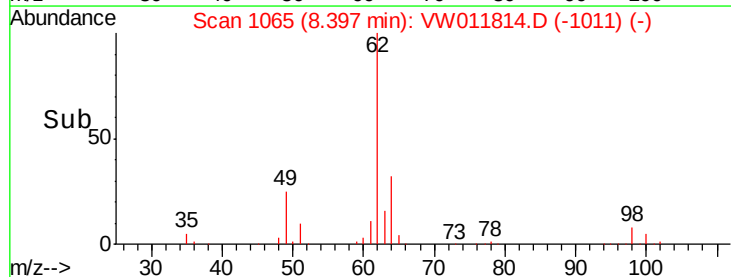
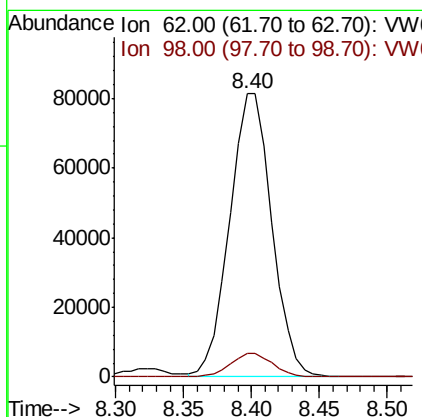
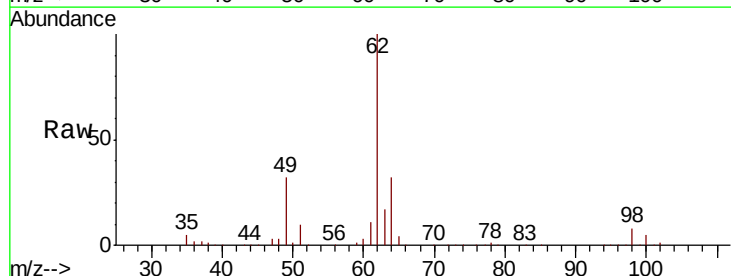
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

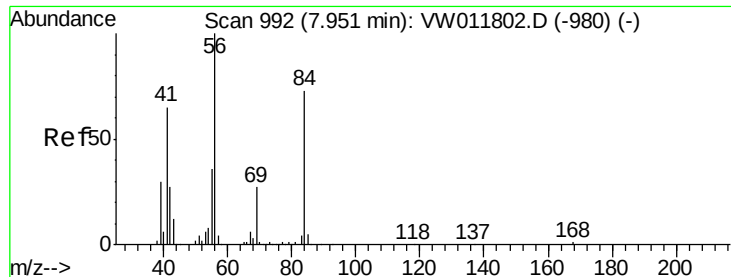
Tgt Ion: 83 Resp: 250738
Ion Ratio Lower Upper
83 100
85 65.3 45.4 84.2



#27
1,2-Dichloroethane
Concen: 26.224 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

Tgt Ion: 62 Resp: 176269
Ion Ratio Lower Upper
62 100
98 8.3 7.2 10.8

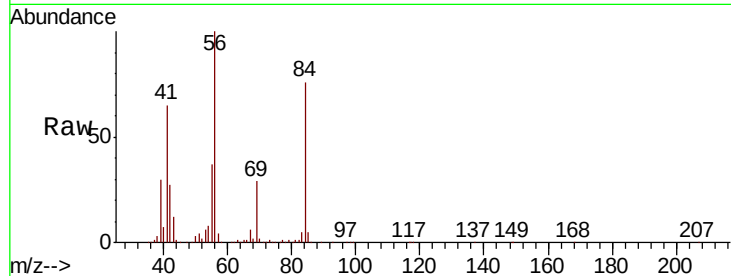




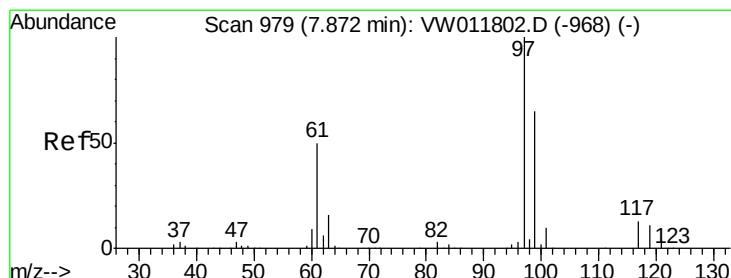
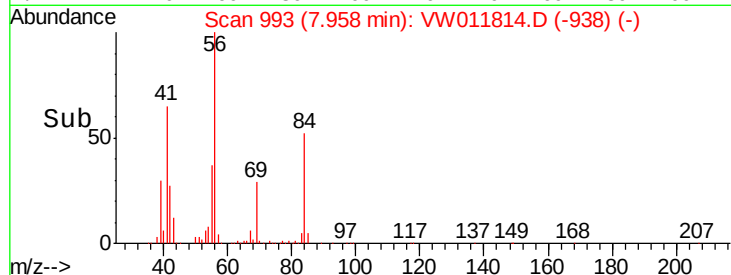
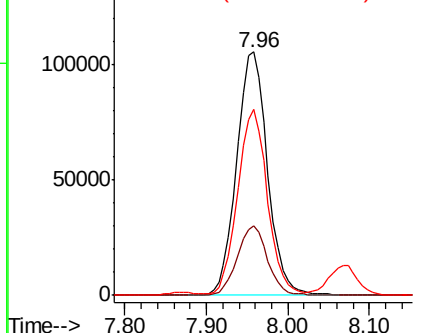
#30
Cyclohexane
Concen: 27.035 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

Instrument :
MSVOA_W
ClientSampled :
VSTD02511

Tgt Ion: 56 Resp: 276328
Ion Ratio Lower Upper
56 100
69 27.8 22.4 33.6
84 74.0 60.6 91.0

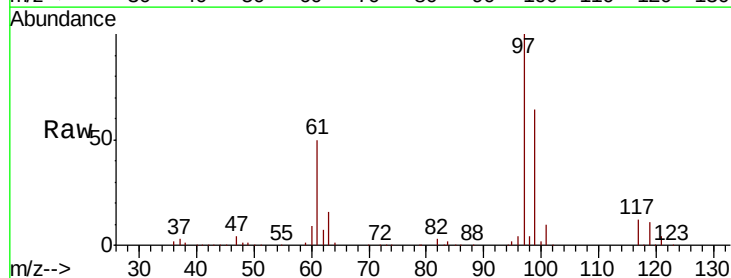


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

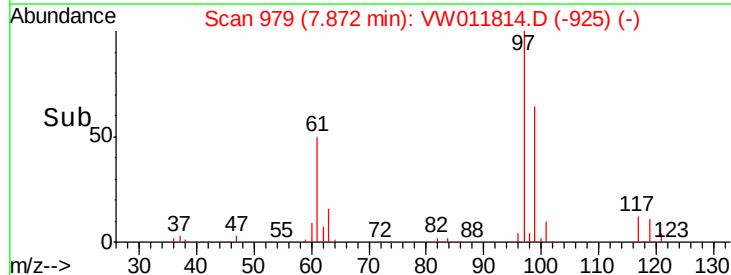
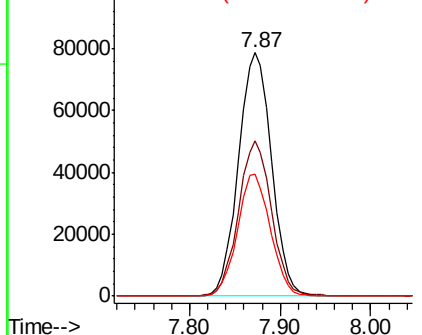


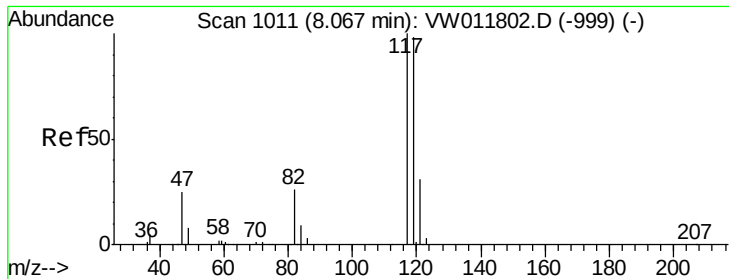
#31
1,1,1-Trichloroethane
Concen: 27.809 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

Tgt Ion: 97 Resp: 199250
Ion Ratio Lower Upper
97 100
99 63.5 52.1 78.1
61 49.9 40.3 60.5



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: 27.514 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

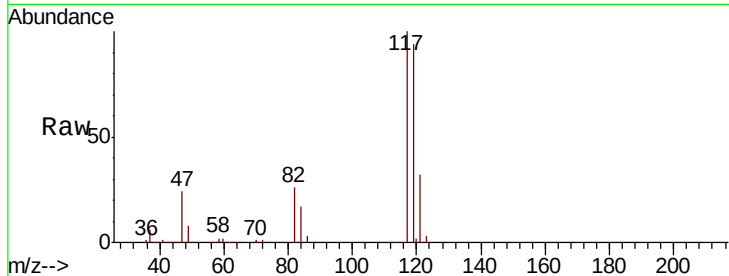
VSTD02511

Tgt Ion:117 Resp: 185457

Ion Ratio Lower Upper

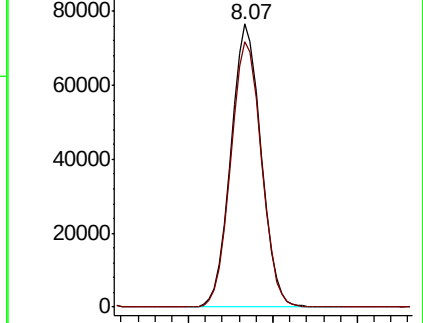
117 100

119 95.4 76.2 114.4

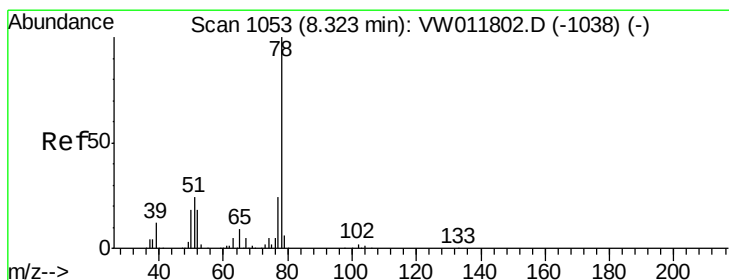
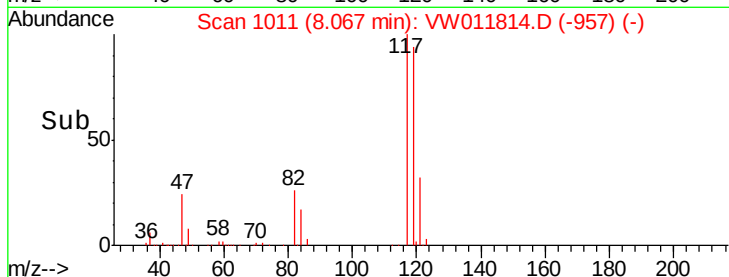


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#34

Benzene

Concen: 27.275 ug/L

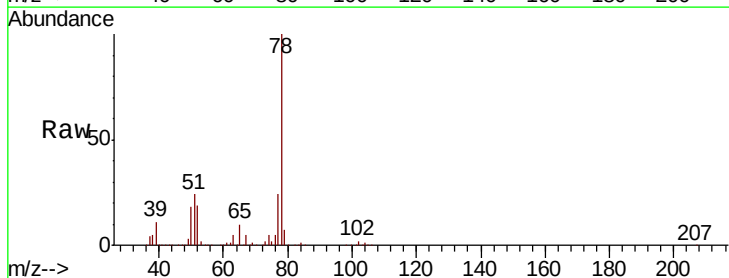
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Tgt Ion: 78 Resp: 562040



Abundance Ion 78.00 (77.70 to 78.70): VW

300000

250000

200000

150000

100000

50000

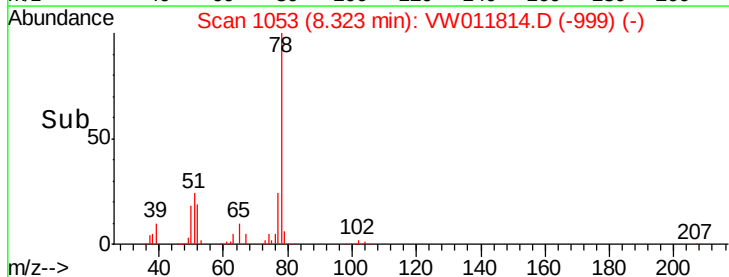
0

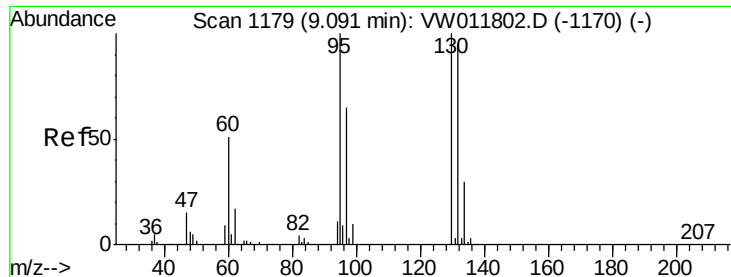
8.32

8.20

8.40

Time-->





#35

Trichloroethene

Concen: 26.916 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampled :

VSTD02511

Tgt Ion: 95 Resp: 140801

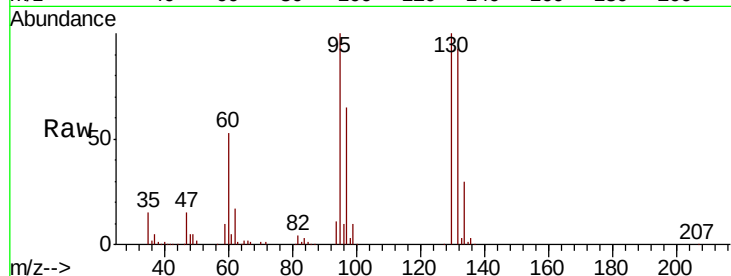
Ion Ratio Lower Upper

95 100

97 64.7 44.8 83.2

132 93.1 65.0 120.6

130 96.6 68.0 126.4



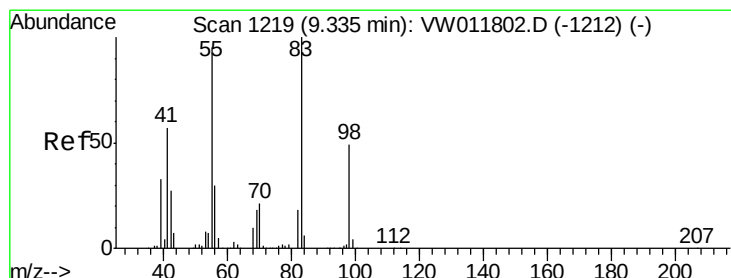
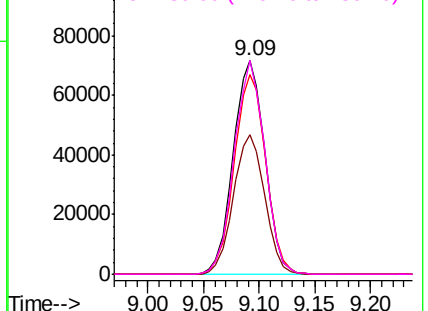
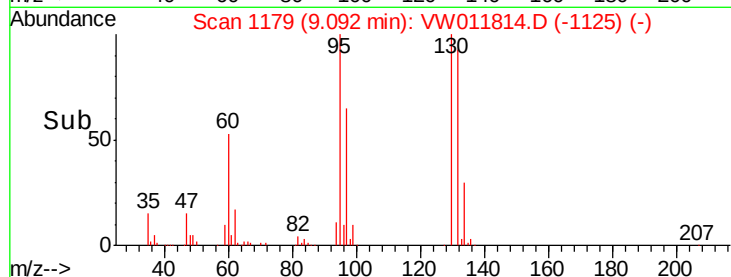
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 27.387 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

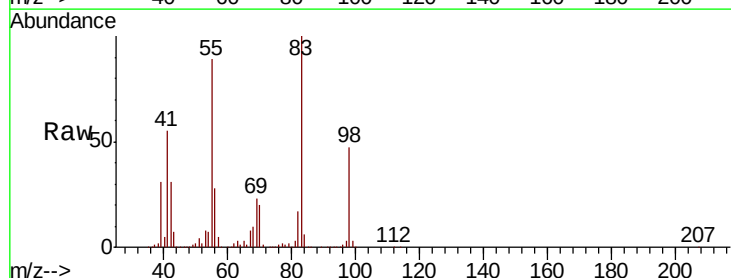
Tgt Ion: 83 Resp: 259906

Ion Ratio Lower Upper

83 100

55 89.6 72.6 108.8

98 47.1 37.8 56.6

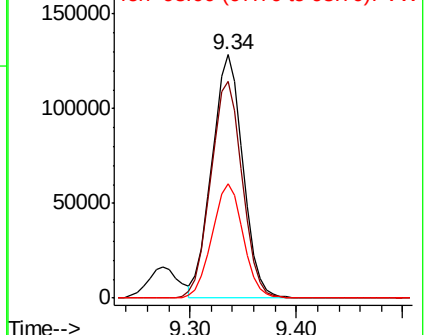
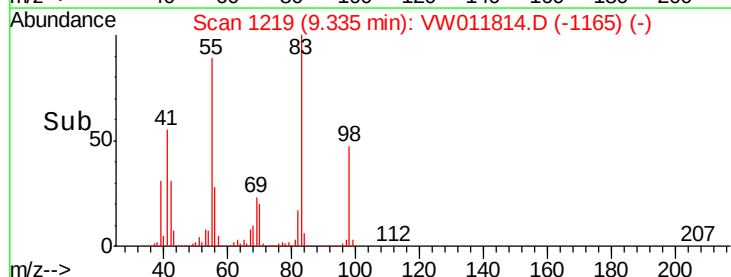


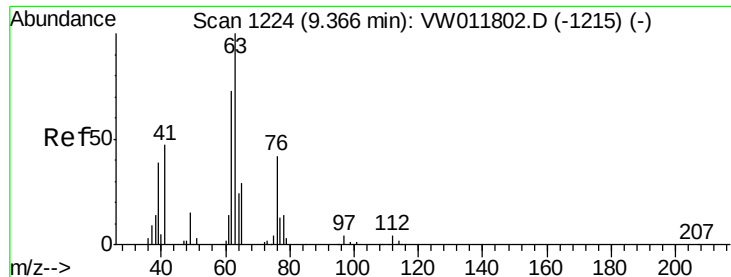
Abundance

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: 27.562 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

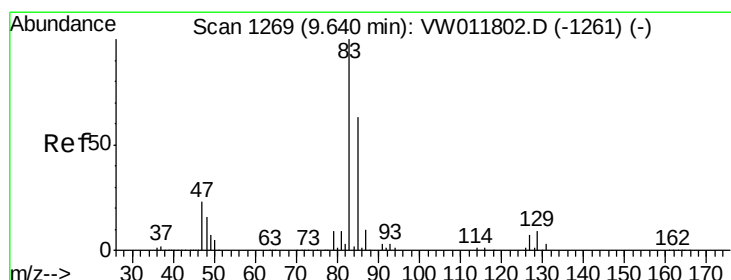
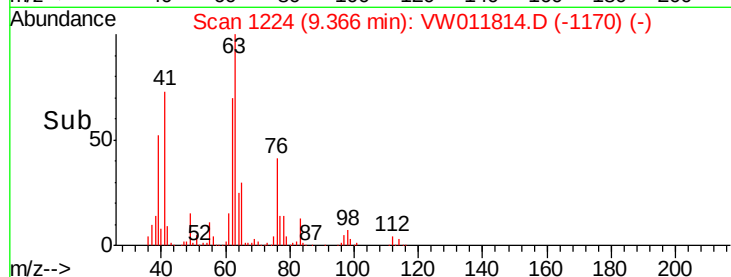
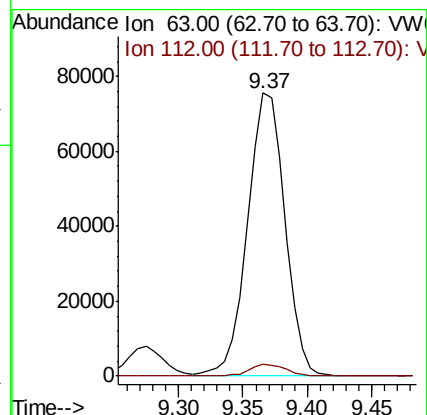
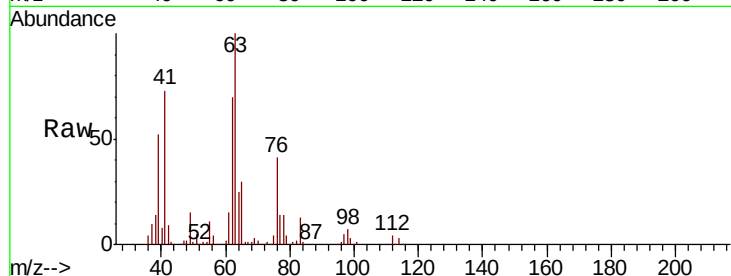
VSTD02511

Tgt Ion: 63 Resp: 151603

Ion Ratio Lower Upper

63 100

112 4.0 3.1 4.7



#41

Bromodichloromethane

Concen: 27.453 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

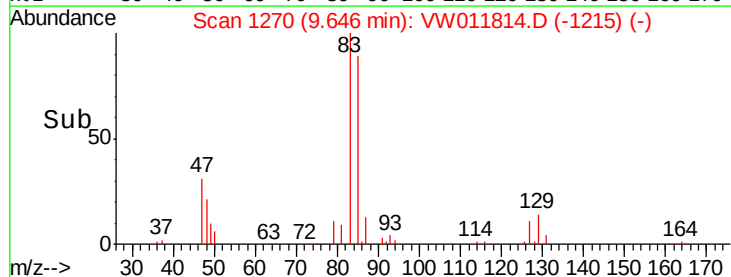
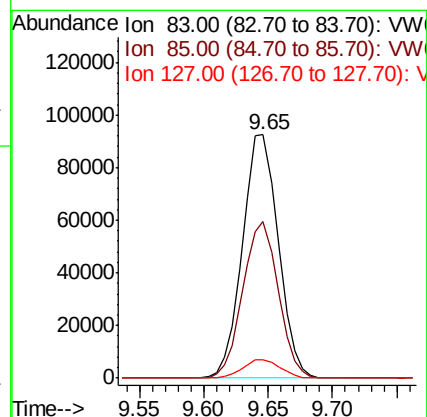
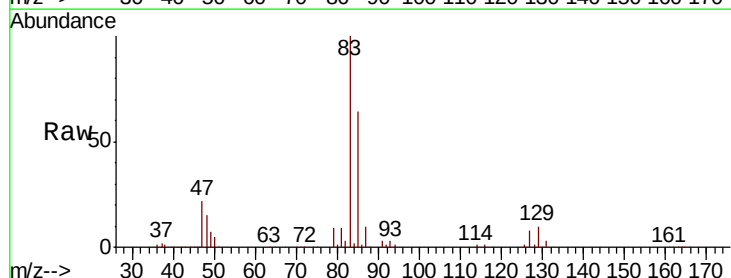
Tgt Ion: 83 Resp: 178186

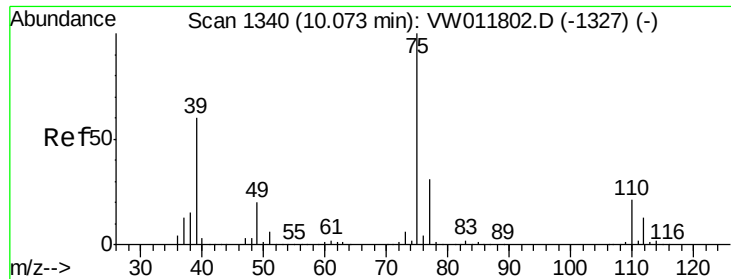
Ion Ratio Lower Upper

83 100

85 64.5 44.0 81.6

127 7.8 6.5 9.7

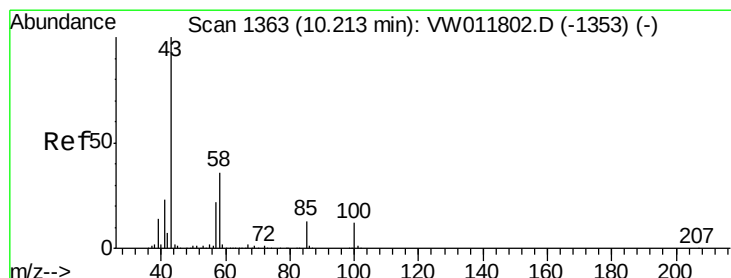
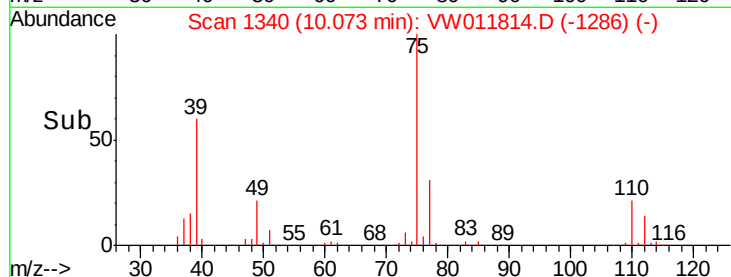
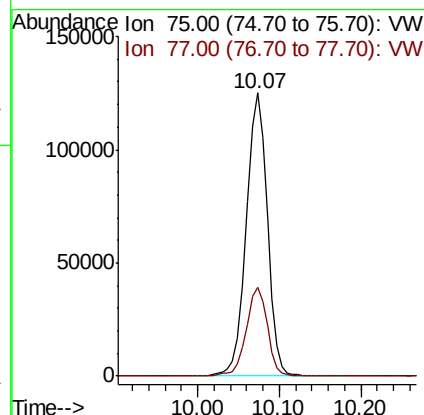
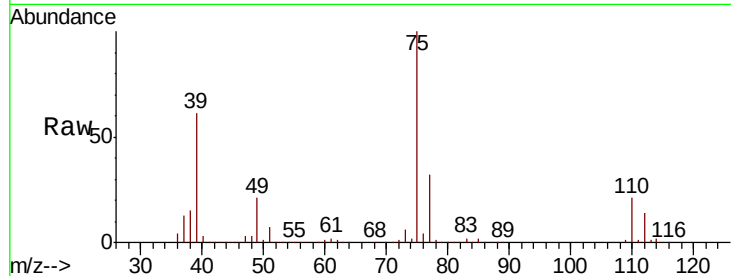




#42
 cis-1,3-Dichloropropene
 Concen: 27.264 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW011814.D
 Acq: 09 Aug 2019 15:40

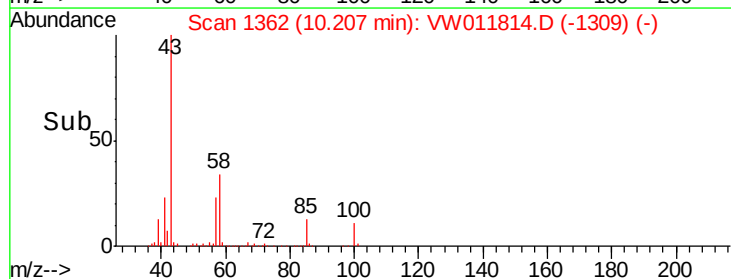
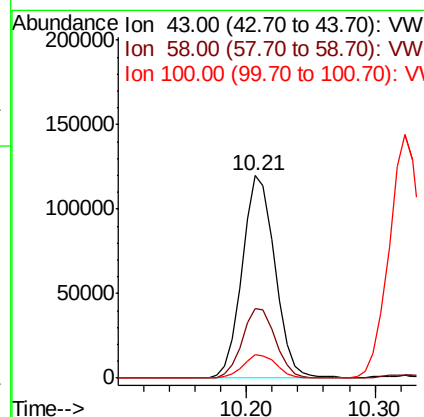
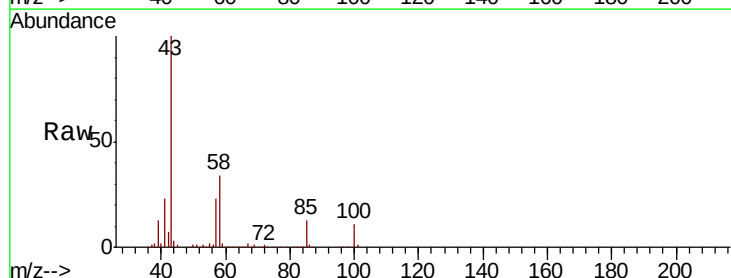
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

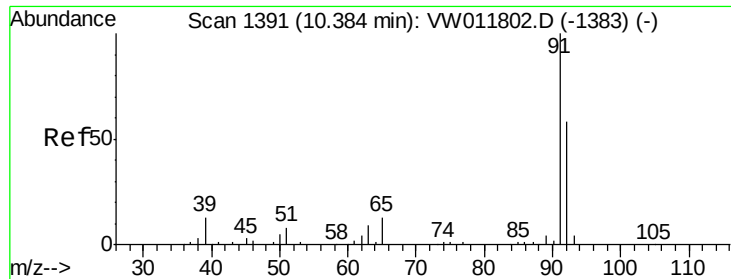
Tgt Ion: 75 Resp: 224303
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.3 41.3



#43
 4-Methyl-2-pentanone
 Concen: 42.174 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: VW011814.D
 Acq: 09 Aug 2019 15:40

Tgt Ion: 43 Resp: 210178
 Ion Ratio Lower Upper
 43 100
 58 34.7 28.0 42.0
 100 11.6 9.4 14.2





#44

Toluene

Concen: 27.683 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampled :

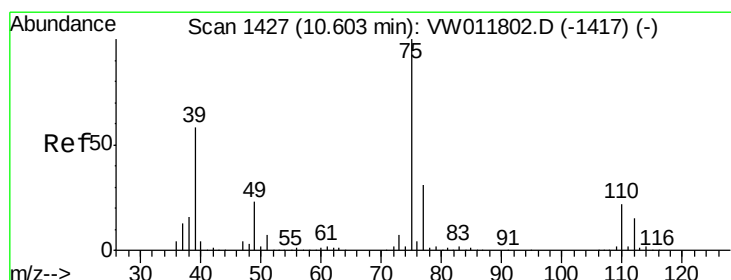
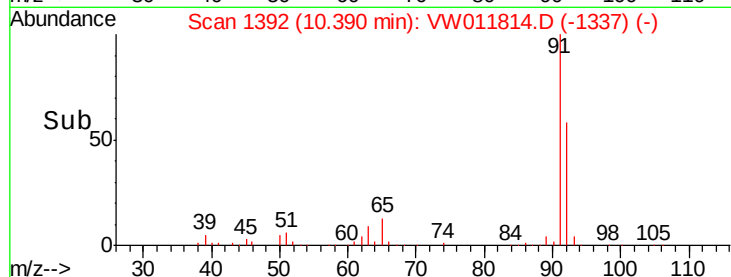
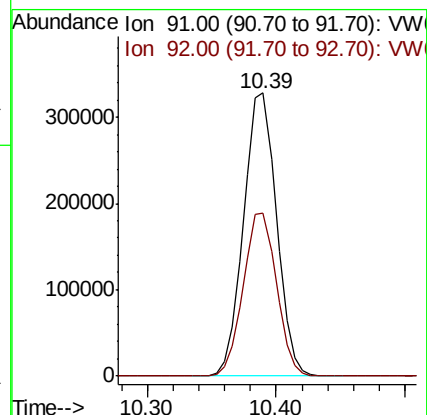
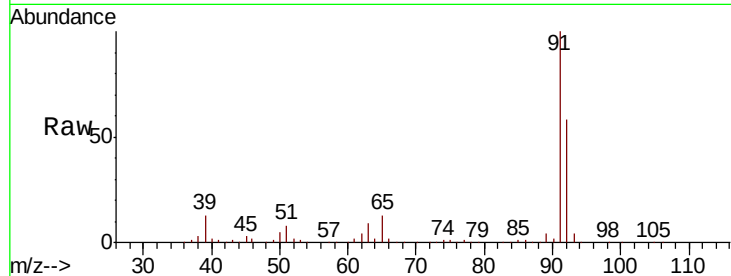
VSTD02511

Tgt Ion: 91 Resp: 579555

Ion Ratio Lower Upper

91 100

92 57.8 40.9 76.0



#45

trans-1,3-Dichloropropene

Concen: 25.992 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011814.D

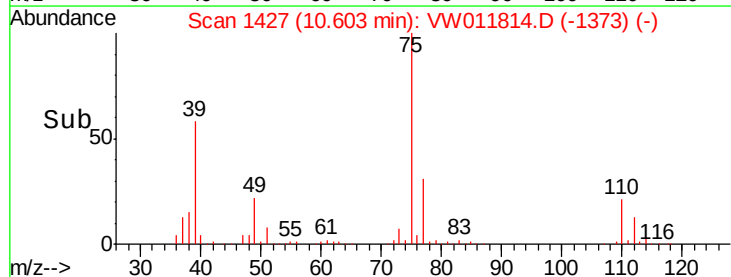
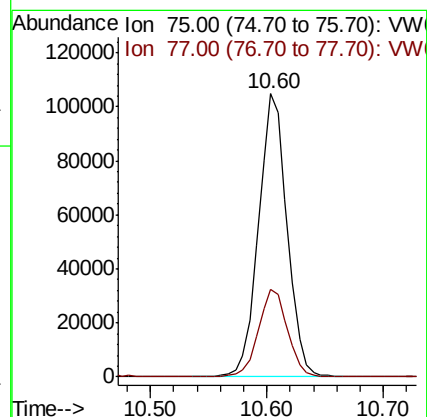
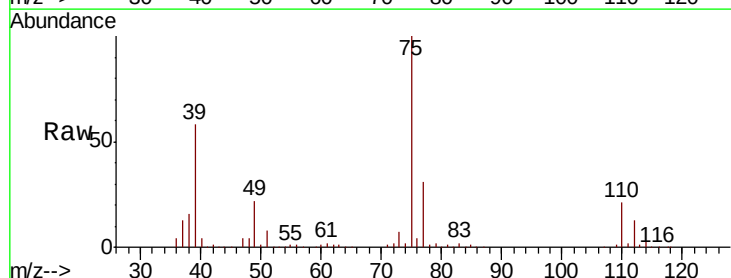
Acq: 09 Aug 2019 15:40

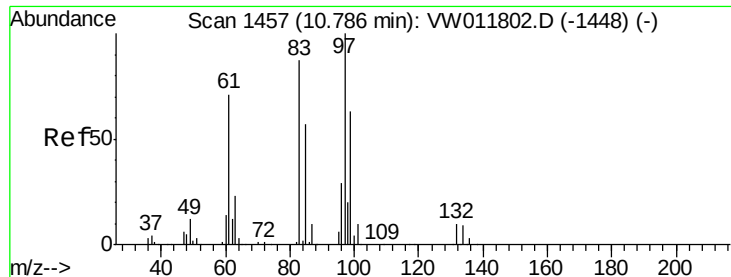
Tgt Ion: 75 Resp: 177918

Ion Ratio Lower Upper

75 100

77 31.0 21.6 40.0





#46

1,1,2-Trichloroethane

Concen: 24.869 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

Tgt Ion: 97 Resp: 93261

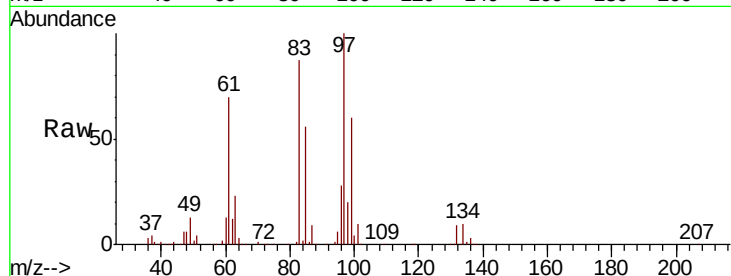
Ion Ratio Lower Upper

97 100

83 87.3 63.8 118.6

85 56.4 39.3 72.9

99 60.4 43.5 80.7



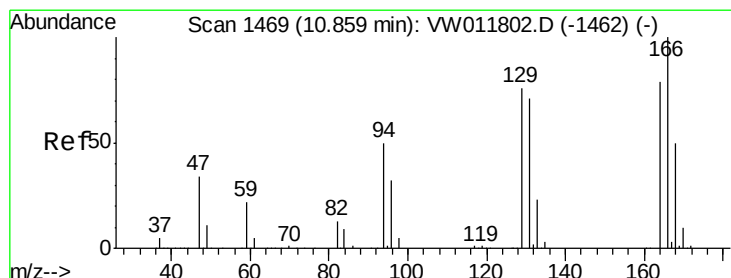
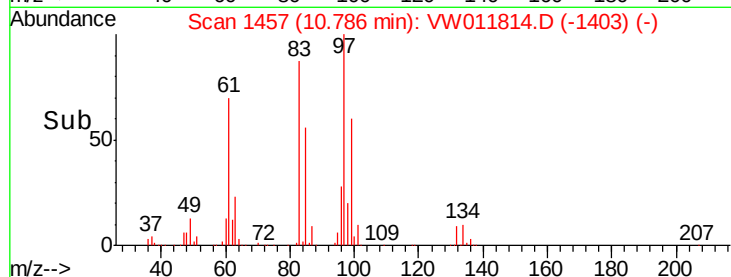
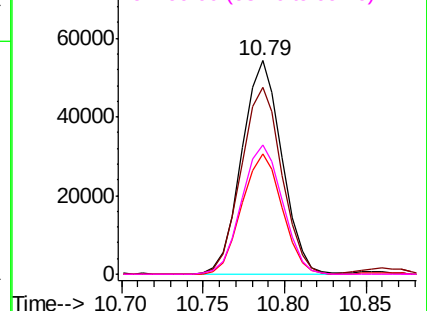
Abundance

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: 26.817 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Tgt Ion: 164 Resp: 107152

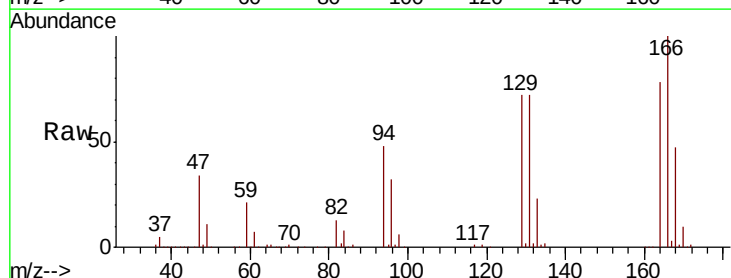
Ion Ratio Lower Upper

164 100

129 92.8 64.0 119.0

131 92.7 58.6 108.8

166 128.0 91.7 170.3



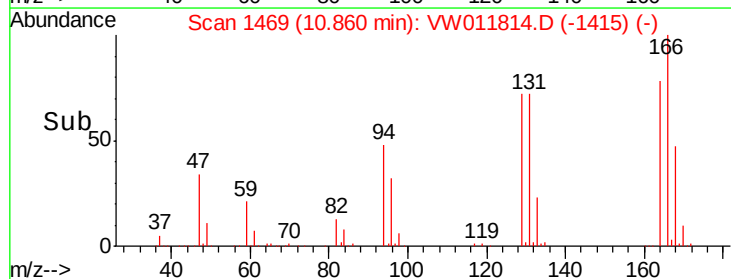
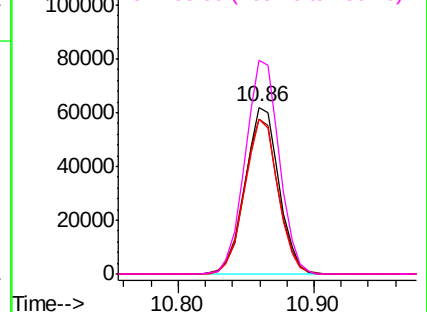
Abundance

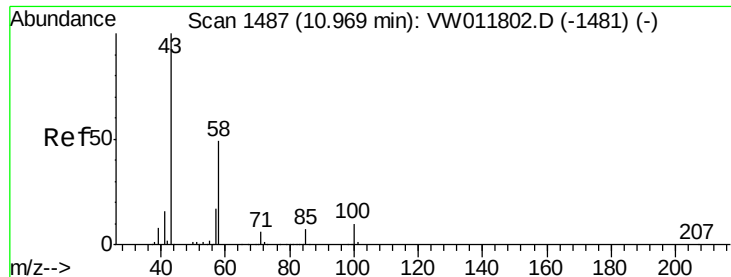
Ion 164.00 (163.70 to 164.70): V

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

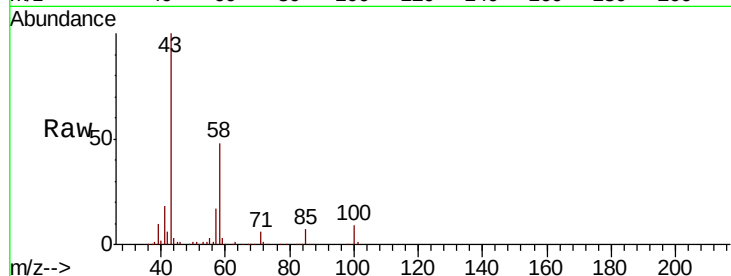




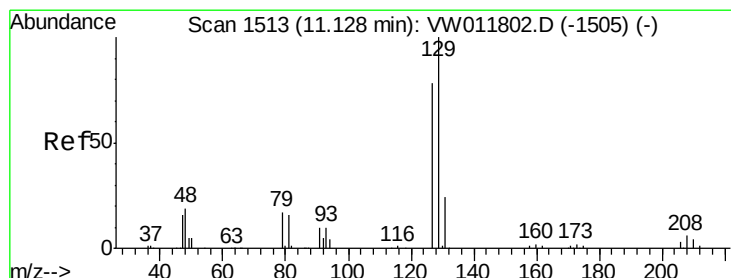
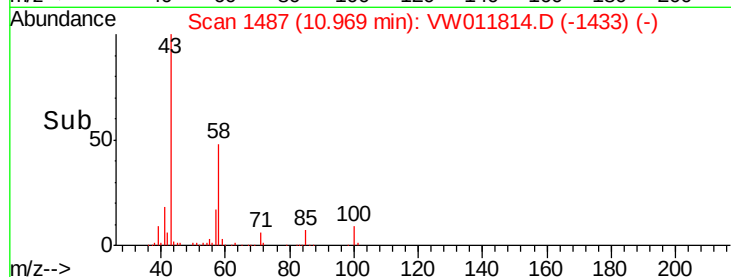
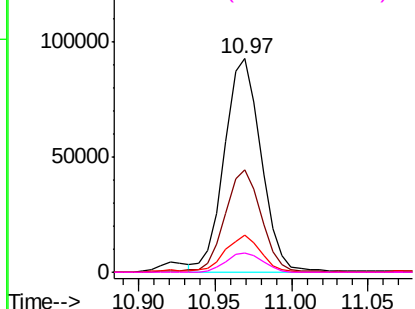
#49
2-Hexanone
Concen: 40.365 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

Instrument :
MSVOA_W
ClientSampled :
VSTD02511

Tgt Ion:	43	Resp:	154984
Ion	Ratio	Lower	Upper
43	100		
58	48.1	38.6	57.8
57	16.9	13.0	19.6
100	9.2	7.5	11.3

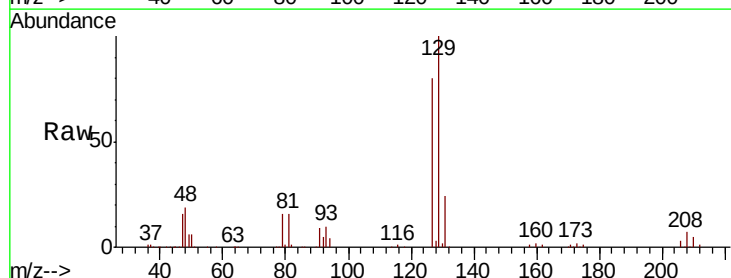


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

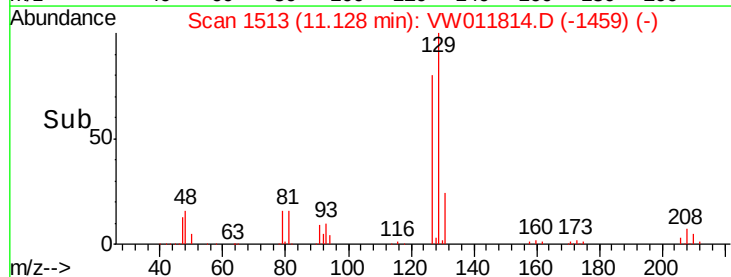
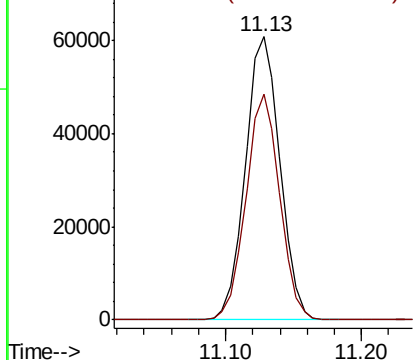


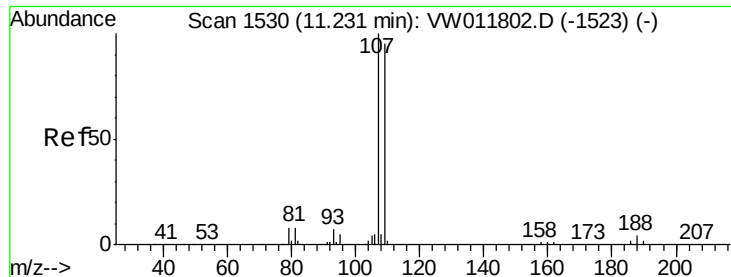
#50
Dibromochloromethane
Concen: 26.178 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

Tgt Ion:	129	Resp:	108205
Ion	Ratio	Lower	Upper
129	100		
127	80.0	52.6	97.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 23.916 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

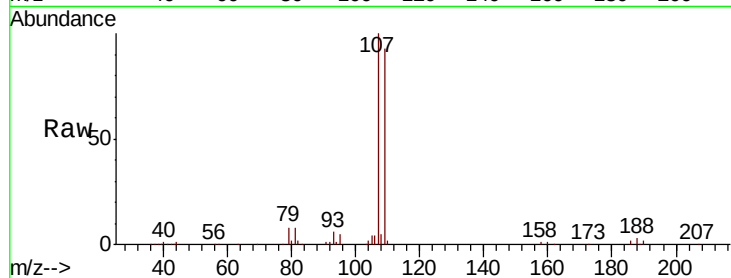
Tgt Ion:107 Resp: 87273

Ion Ratio Lower Upper

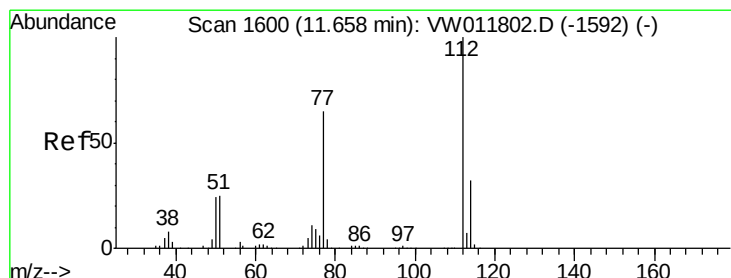
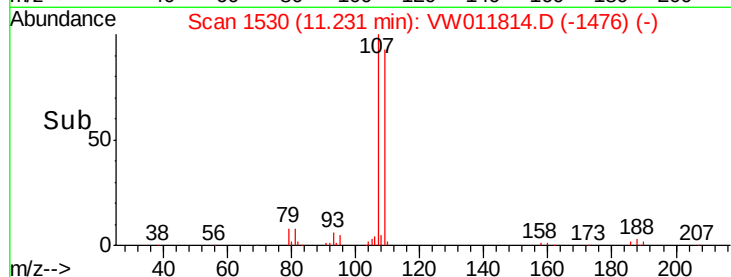
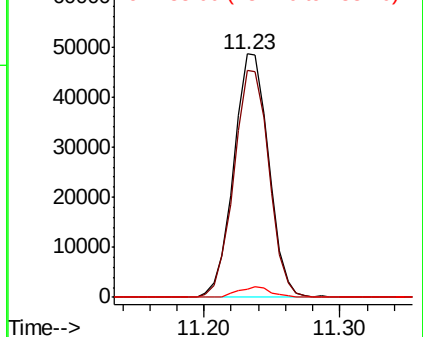
107 100

109 93.4 66.1 122.8

188 3.7 2.9 4.3



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: 27.452 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

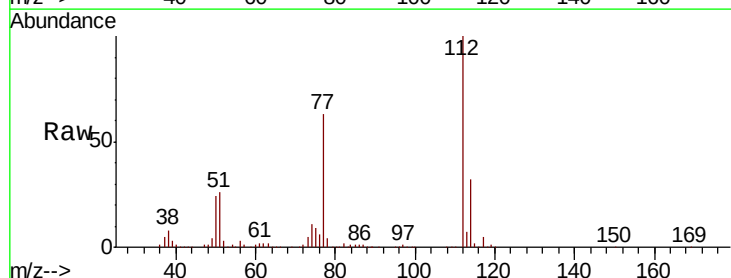
Tgt Ion:112 Resp: 346736

Ion Ratio Lower Upper

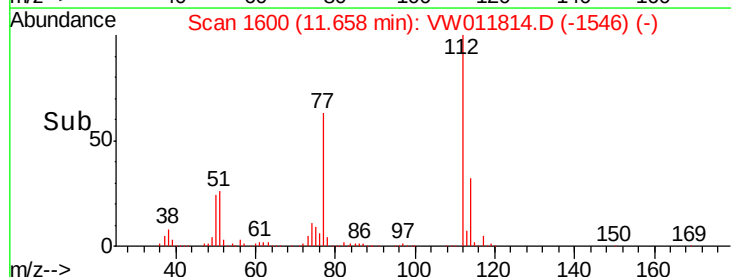
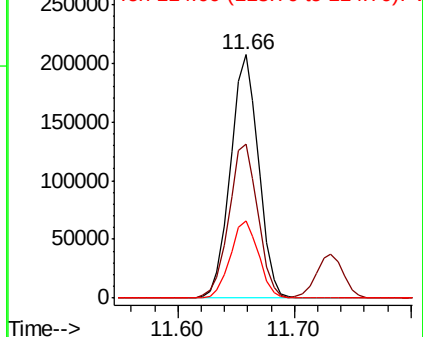
112 100

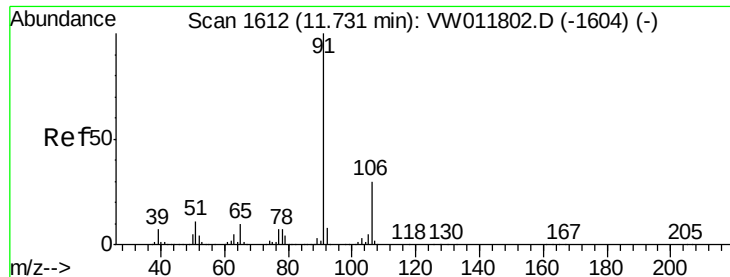
77 63.4 51.0 76.4

114 31.7 22.4 41.6



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: 28.193 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

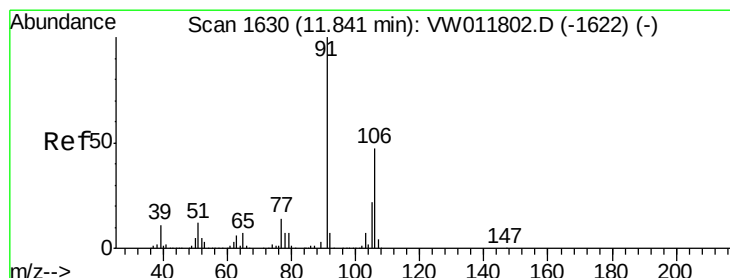
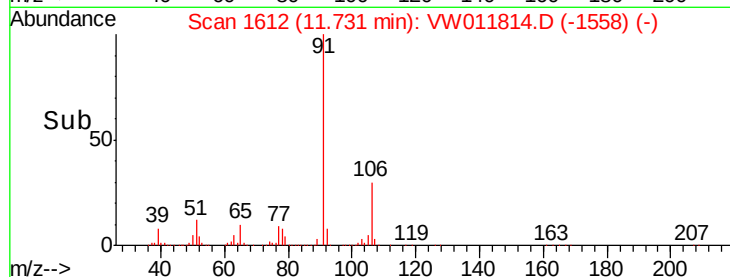
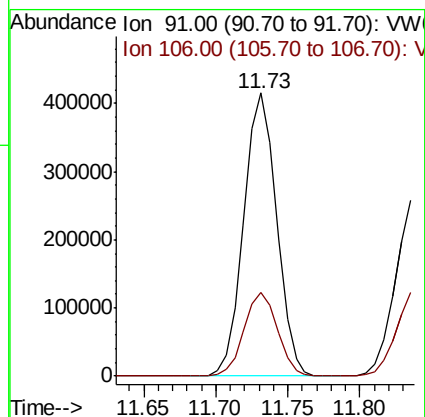
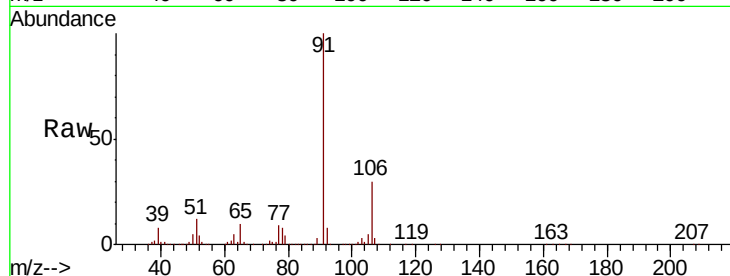
VSTD02511

Tgt Ion: 91 Resp: 658222

Ion Ratio Lower Upper

91 100

106 29.5 20.6 38.4



#54

m,p-Xylene

Concen: 28.014 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW011814.D

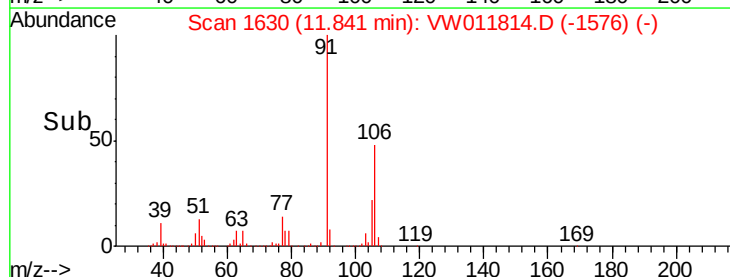
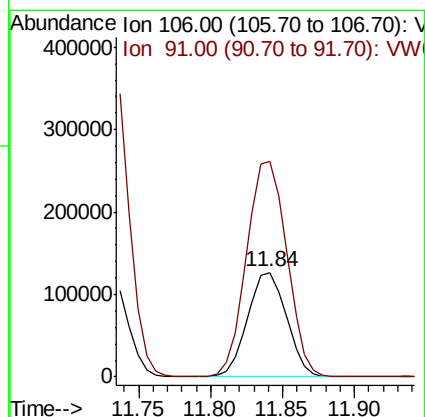
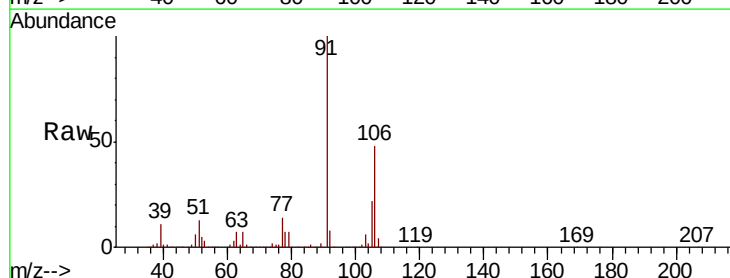
Acq: 09 Aug 2019 15:40

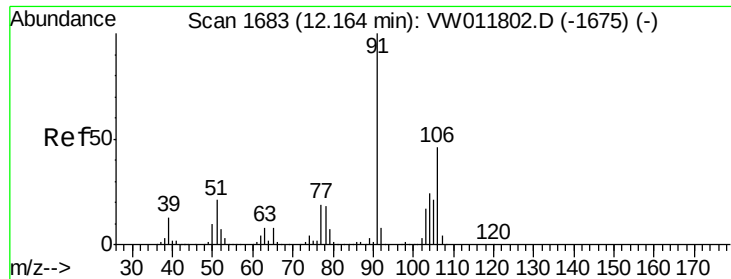
Tgt Ion: 106 Resp: 237824

Ion Ratio Lower Upper

106 100

91 206.3 149.6 277.8

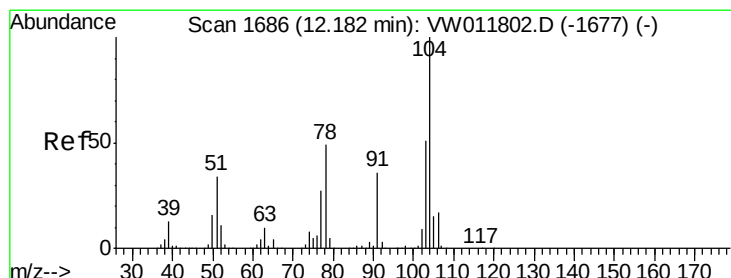
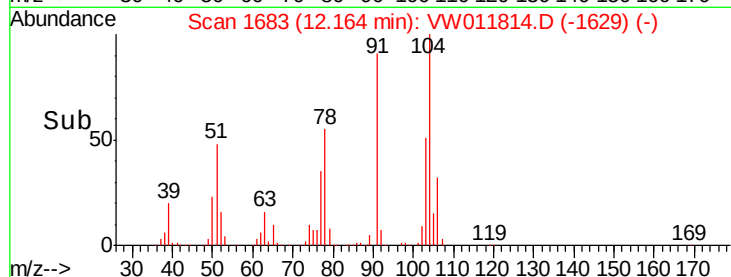
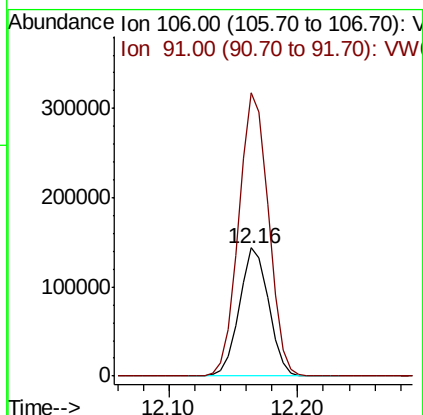
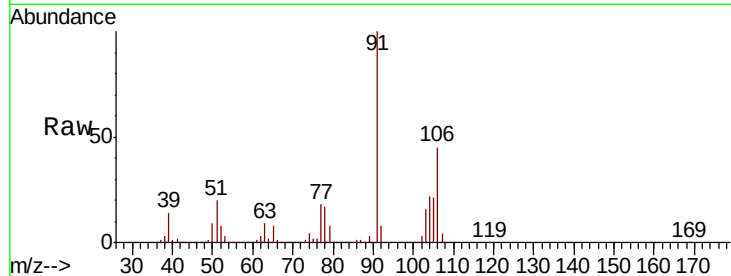




#55
o-xylene
Concen: 28.298 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

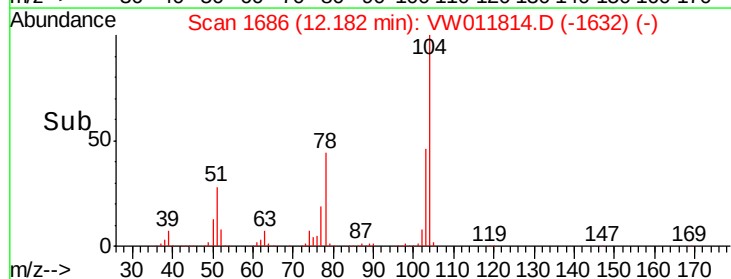
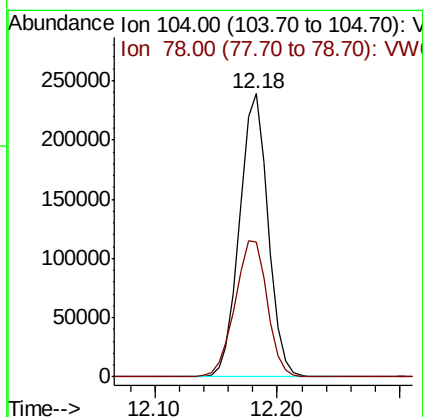
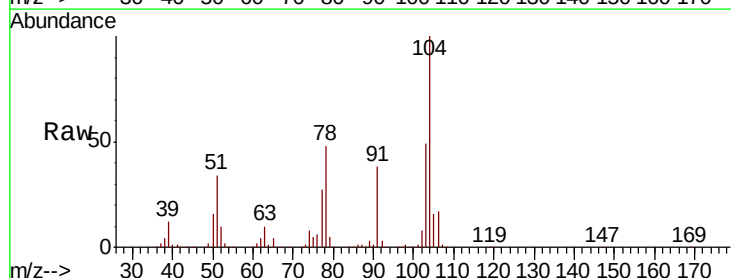
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

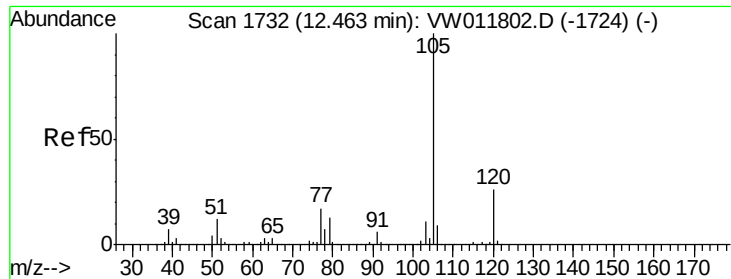
Tgt Ion:106 Resp: 226091
Ion Ratio Lower Upper
106 100
91 220.9 158.3 293.9



#56
Styrene
Concen: 28.427 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011814.D
Acq: 09 Aug 2019 15:40

Tgt Ion:104 Resp: 386133
Ion Ratio Lower Upper
104 100
78 47.6 32.9 61.1





#57

Isopropylbenzene

Concen: 28.628 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampled :

VSTD02511

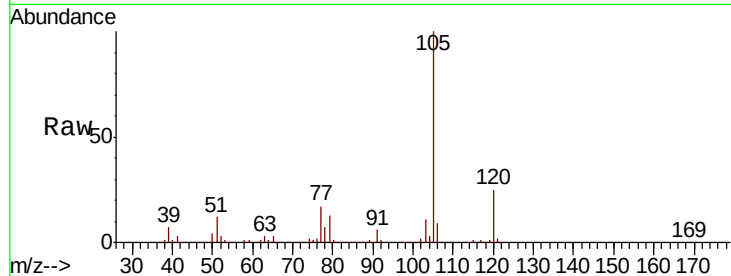
Tgt Ion: 105 Resp: 629242

Ion Ratio Lower Upper

105 100

120 25.6 20.6 30.8

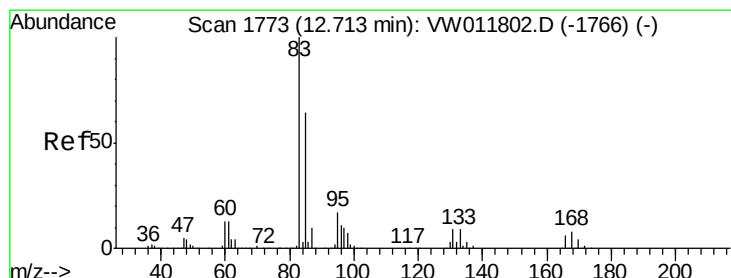
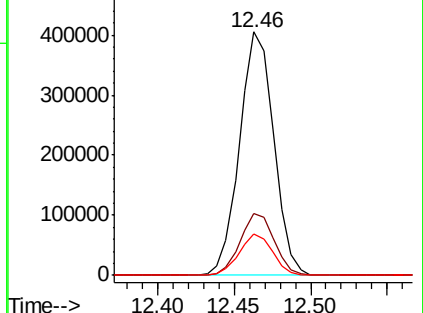
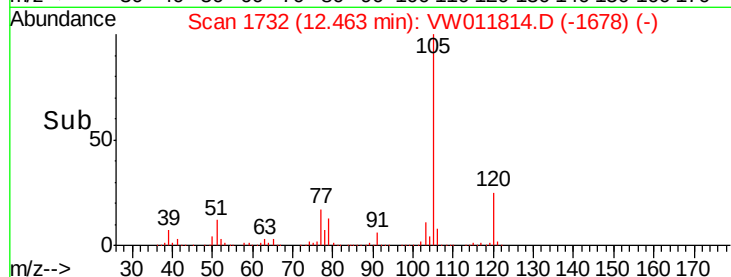
77 16.8 13.4 20.2



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: 22.437 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

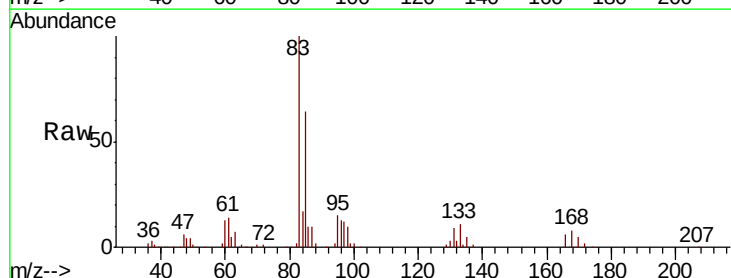
Tgt Ion: 83 Resp: 111816

Ion Ratio Lower Upper

83 100

85 63.9 43.5 80.9

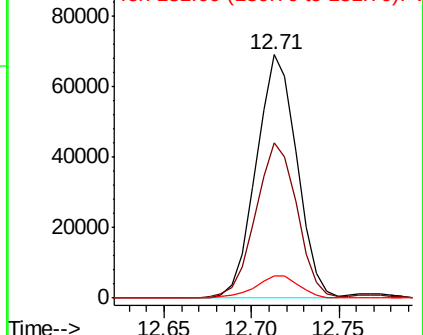
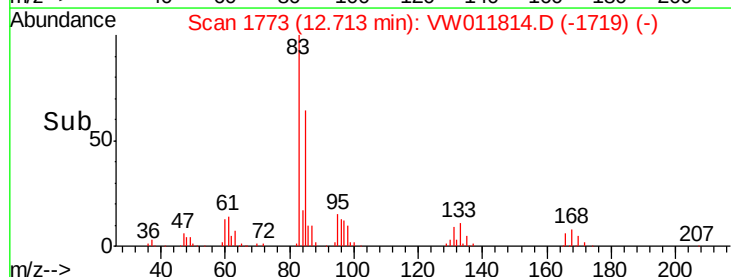
131 9.3 7.5 11.3

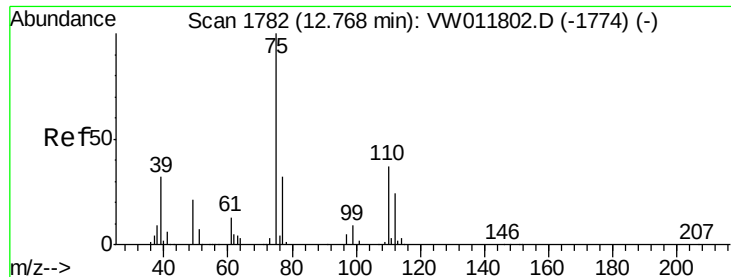


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.080 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

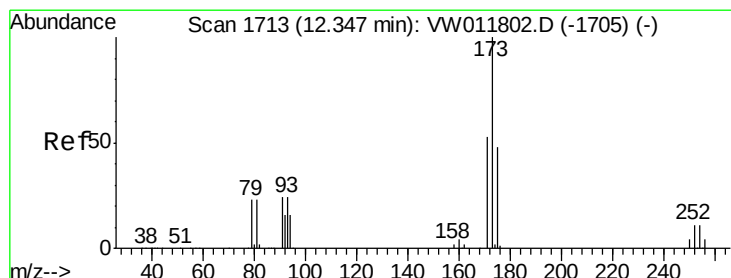
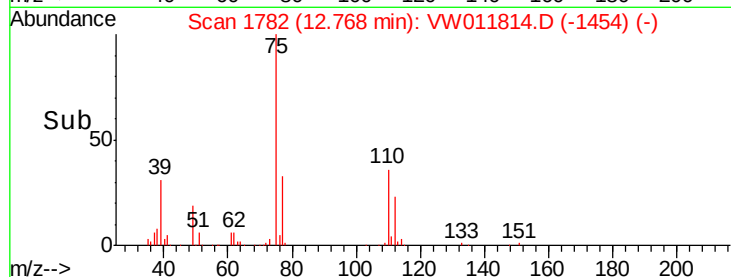
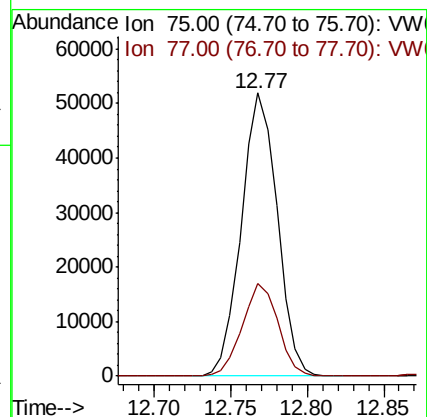
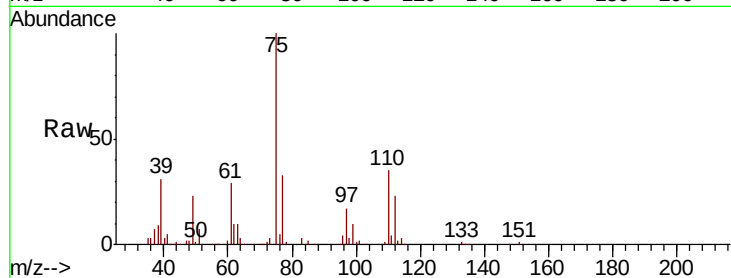
VSTD02511

Tgt Ion: 75 Resp: 84867

Ion Ratio Lower Upper

75 100

77 32.7 25.1 37.7



#62

Bromoform

Concen: 22.773 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

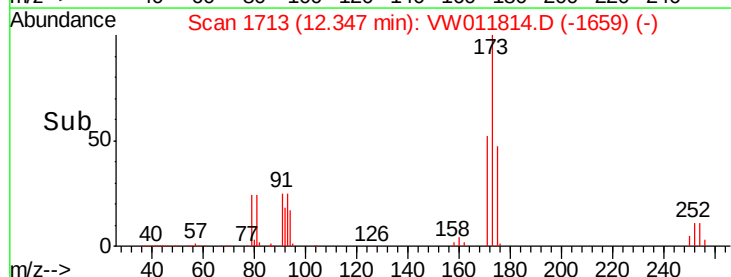
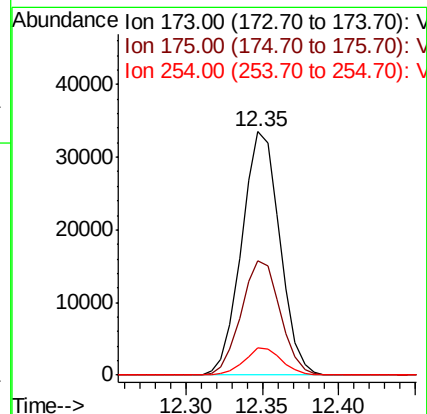
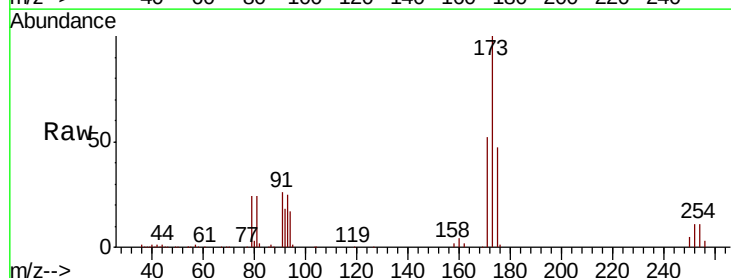
Tgt Ion: 173 Resp: 58080

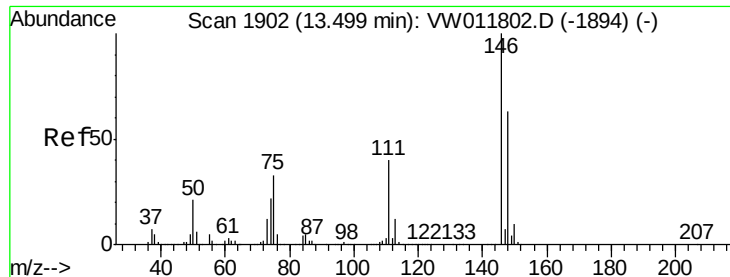
Ion Ratio Lower Upper

173 100

175 48.1 39.4 59.0

254 10.9 9.0 13.6

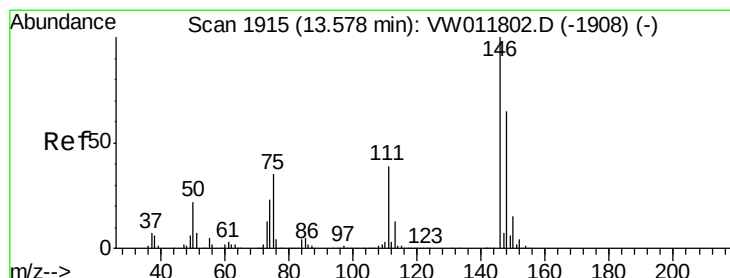
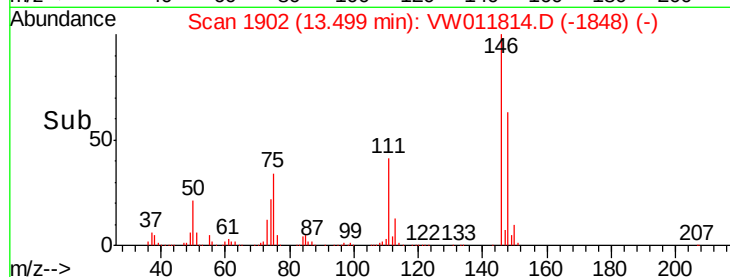
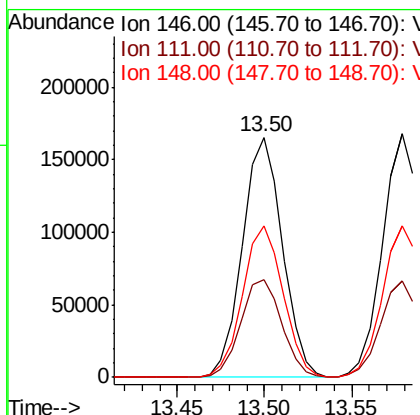
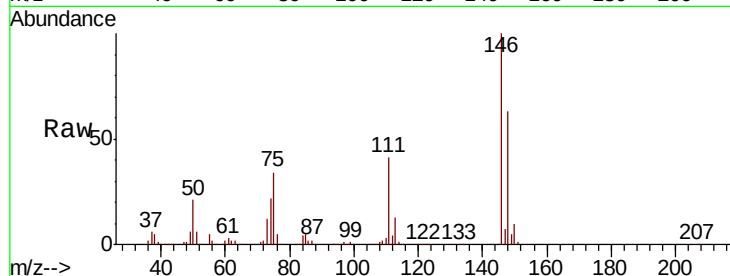




#63
 1,3-Dichlorobenzene
 Concen: 27.205 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011814.D
 Acq: 09 Aug 2019 15:40

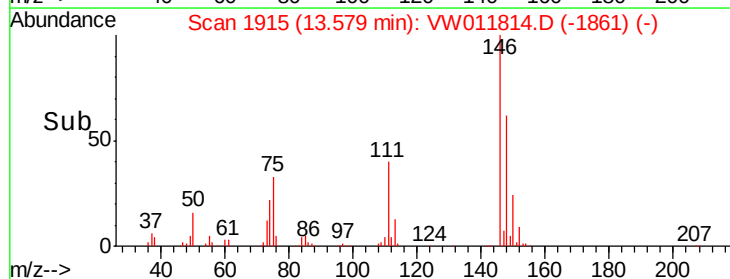
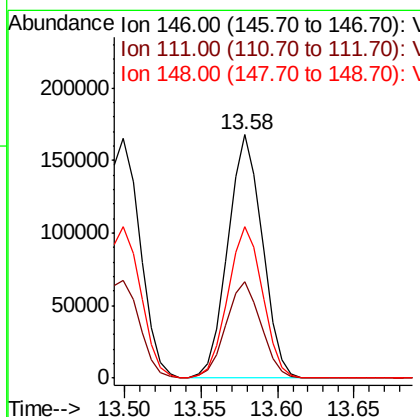
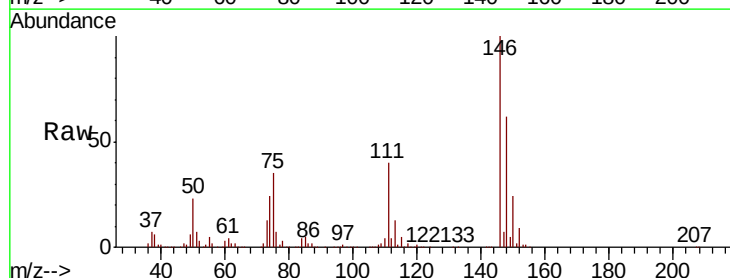
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

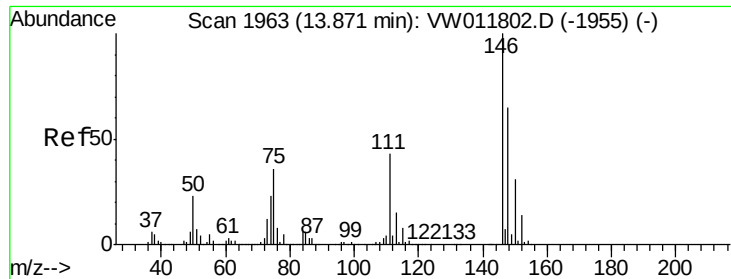
Tgt Ion:146 Resp: 263217
 Ion Ratio Lower Upper
 146 100
 111 41.0 28.6 53.2
 148 63.0 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 26.991 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW011814.D
 Acq: 09 Aug 2019 15:40

Tgt Ion:146 Resp: 262253
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.4 51.0
 148 62.5 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 26.922 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

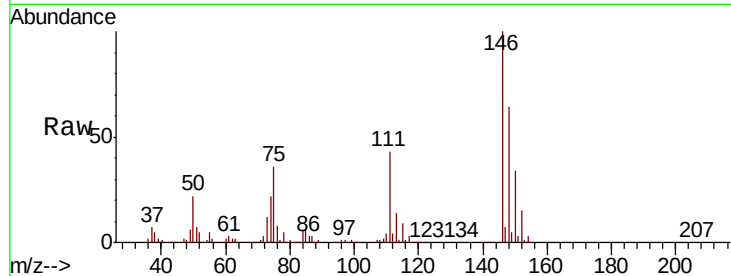
Tgt Ion:146 Resp: 235865

Ion Ratio Lower Upper

146 100

111 43.4 34.6 51.8

148 63.7 50.9 76.3



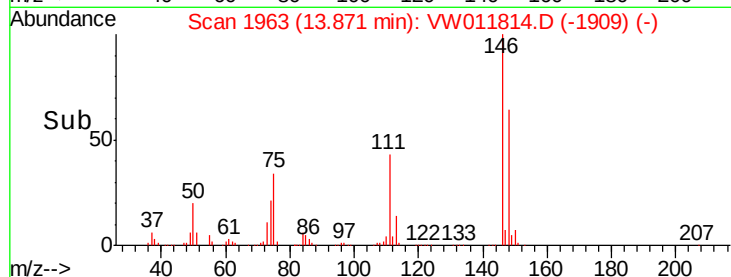
Abundance

Ion 146.00 (145.70 to 146.70): V

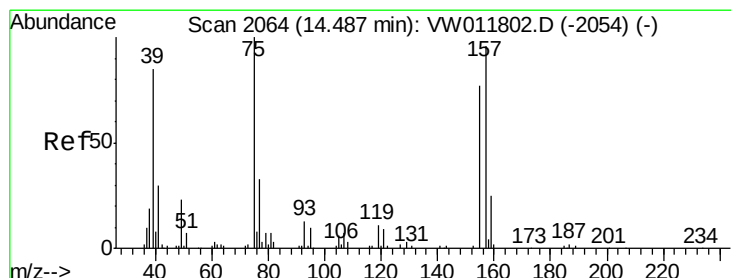
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

13.87



Time-->



#66

1,2-Dibromo-3-chloropropane

Concen: 20.093 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

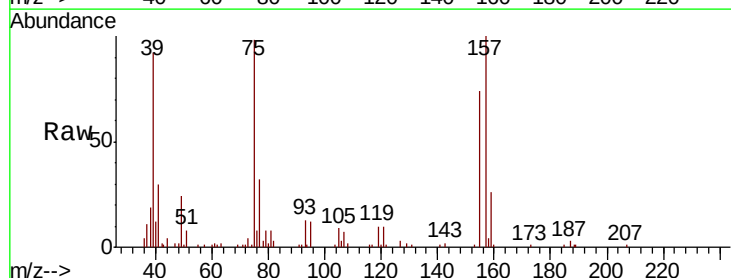
Tgt Ion: 75 Resp: 18220

Ion Ratio Lower Upper

75 100

157 102.4 79.3 118.9

155 75.4 59.9 89.9



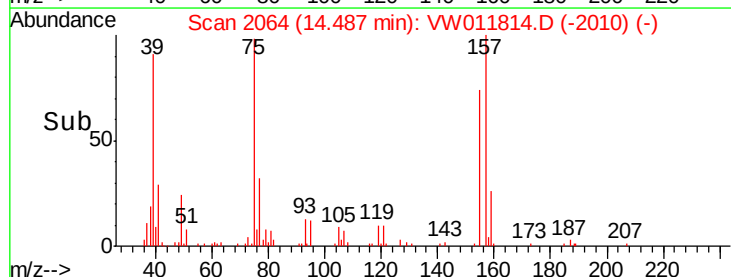
Abundance

Ion 75.00 (74.70 to 75.70): VW

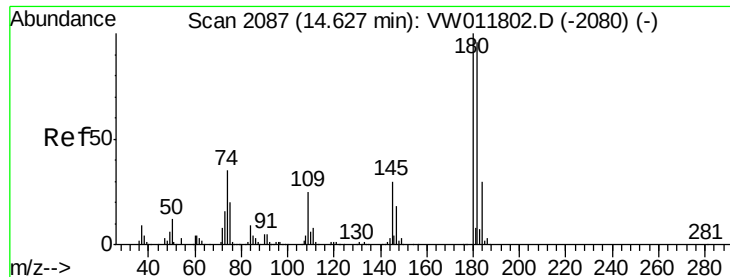
Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

14.49



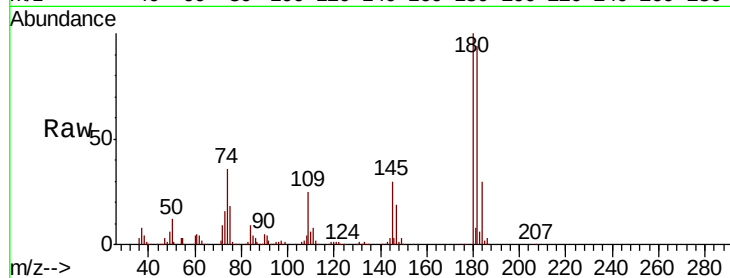
Time-->



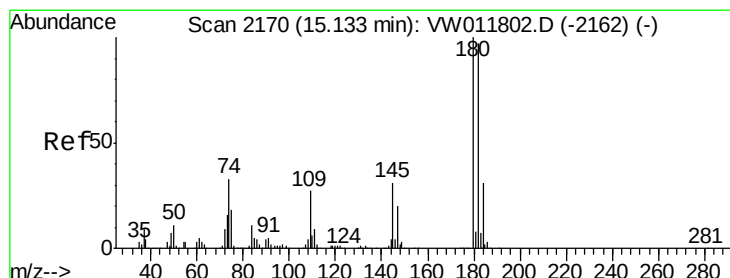
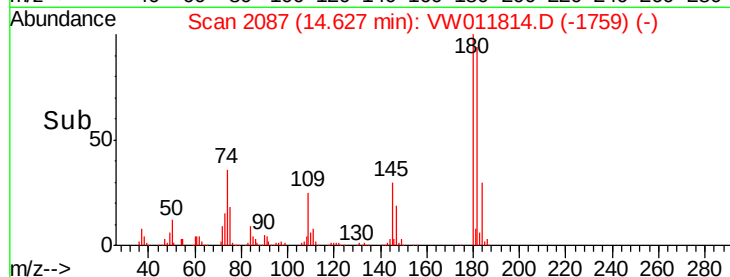
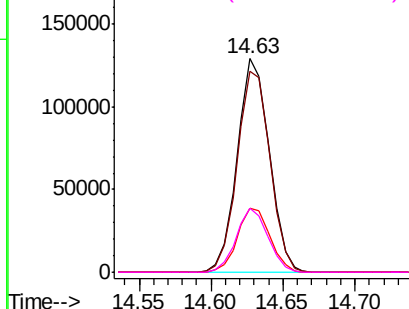
#67
 1,3,5-Trichlorobenzene
 Concen: 28.097 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW011814.D
 Acq: 09 Aug 2019 15:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

Tgt Ion:	180	Resp:	200089
Ion	Ratio	Lower	Upper
180	100		
182	95.9	75.9	113.9
184	30.5	24.2	36.2
145	29.5	23.0	34.6

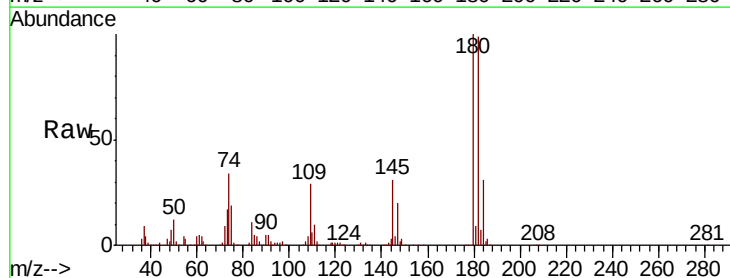


Abundance Ion 180.00 (179.70 to 180.70): V
 200000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

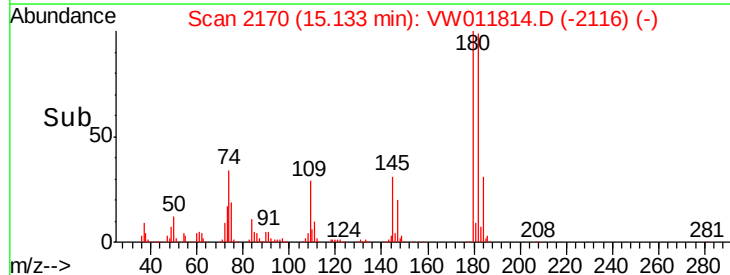
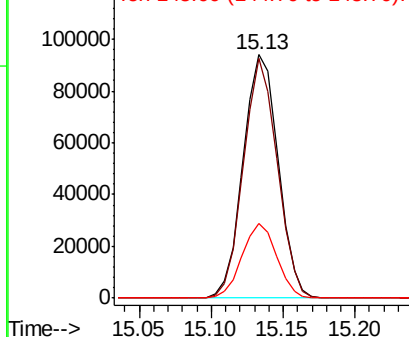


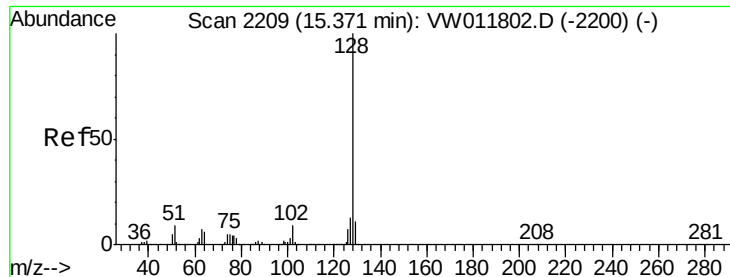
#68
 1,2,4-trichlorobenzene
 Concen: 27.631 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW011814.D
 Acq: 09 Aug 2019 15:40

Tgt Ion:	180	Resp:	158472
Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.3	115.9
145	30.3	24.3	36.5



Abundance Ion 180.00 (179.70 to 180.70): V
 120000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 23.301 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

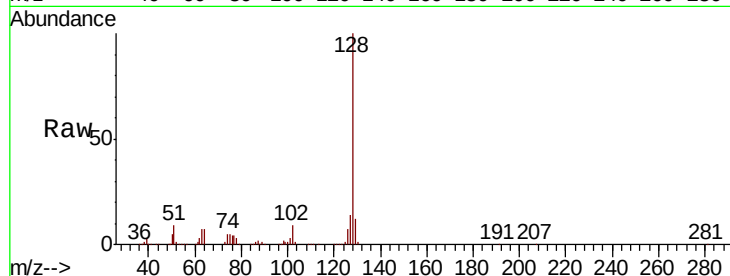
Tgt Ion:128 Resp: 269117

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

127 13.4 10.6 16.0



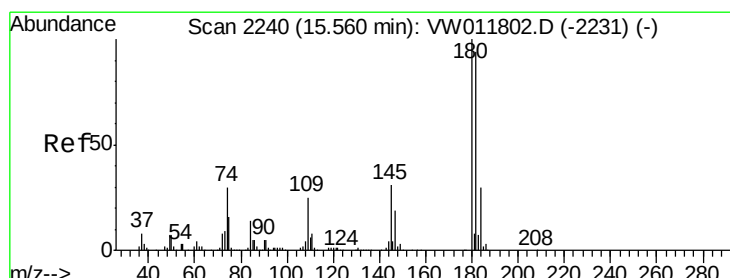
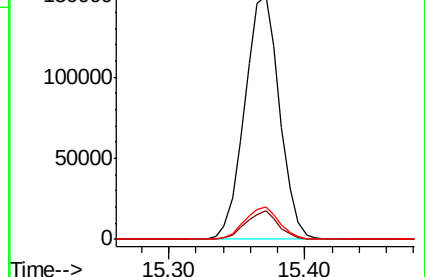
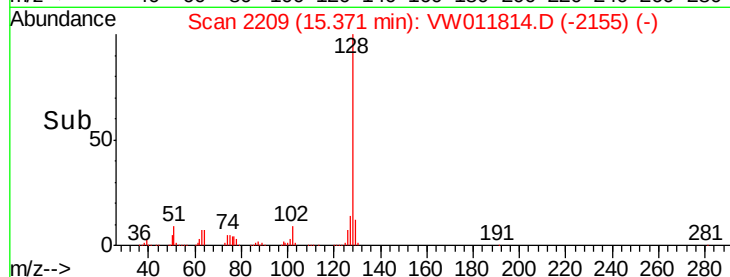
Abundance

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

15.37



#70

1,2,3-Trichlorobenzene

Concen: 26.295 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW011814.D

Acq: 09 Aug 2019 15:40

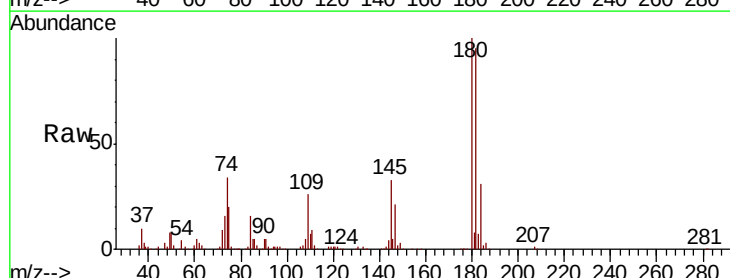
Tgt Ion:180 Resp: 139671

Ion Ratio Lower Upper

180 100

182 95.9 74.9 112.3

145 32.3 25.6 38.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

15.55

