

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101620\
 Data File : VW016921.D
 Acq On : 15 Oct 2020 18:53
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

Quant Time: Oct 16 08:16:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM100720S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 16 08:07:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	478023	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	440841	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	218098	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	116098	24.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.48%
7) Chloroethane-d5	2.90	69	101631	25.69	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.76%
10) 1,1-Dichloroethene-d2	4.03	63	239033	23.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.48%
20) 2-Butanone-d5	7.09	46	66314	62.08	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	124.16%
24) Chloroform-d	7.65	84	282540	28.01	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	112.04%
26) 1,2-Dichloroethane-d4	8.31	65	135387	27.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	111.16%
29) Benzene-d6	8.27	84	540122	26.98	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	107.92%
33) 1,2-Dichloropropane-d6	9.28	67	152413	28.33	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	113.32%
37) Toluene-d8	10.33	98	507526	26.86	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.44%
38) trans-1,3-Dichloropropene-	10.58	79	64155	27.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	108.12%
39) 2-Hexanone-d5	10.93	63	55529	66.73	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	133.46%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	131801	30.32	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	121.28%#
61) 1,2-Dichlorobenzene-d4	13.85	152	194913	28.18	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	112.72%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	100733	17.630	ug/L	95
3) Chloromethane	2.21	50	86758	17.226	ug/L	99
5) Vinyl chloride	2.37	62	139406	21.321	ug/L	98
6) Bromomethane	2.79	94	93493	19.450	ug/L	100
8) Chloroethane	2.93	64	83538	20.701	ug/L	97
9) Trichlorofluoromethane	3.27	101	97301	19.260	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	134019	20.824	ug/L	100
12) 1,1-Dichloroethene	4.04	96	126317	20.438	ug/L #	80
13) Acetone	4.14	43	33568	41.529	ug/L	93
14) Carbon disulfide	4.40	76	342367	19.319	ug/L	100
15) Methyl Acetate	4.68	43	41856	21.673	ug/L	100
16) Methylene chloride	4.92	84	135830	20.589	ug/L	96
17) Methyl tert-butyl Ether	5.43	73	148945	21.536	ug/L	100
18) trans-1,2-Dichloroethene	5.43	96	130641	20.233	ug/L	98
19) 1,1-Dichloroethane	6.23	63	206066	20.725	ug/L	99
21) 2-Butanone	7.18	43	53068	39.109	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	136314	20.691	ug/L	93

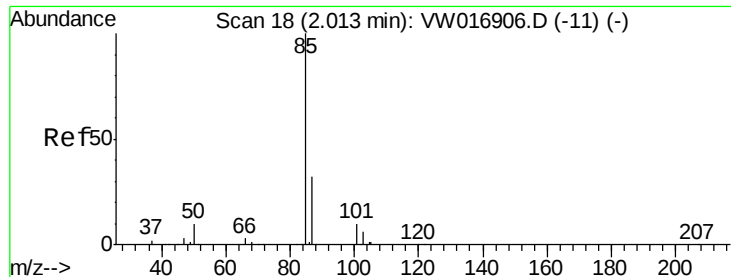
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101620\
 Data File : VW016921.D
 Acq On : 15 Oct 2020 18:53
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Quant Time: Oct 16 08:16:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM100720S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 16 08:07:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	64310	20.787	ug/L	98
25) Chloroform	7.68	83	223263	20.793	ug/L	100
27) 1,2-Dichloroethane	8.40	62	133994	20.861	ug/L	97
30) Cyclohexane	7.96	56	181636	19.868	ug/L	99
31) 1,1,1-Trichloroethane	7.88	97	192044	20.485	ug/L	100
32) Carbon tetrachloride	8.07	117	184498	20.167	ug/L	97
34) Benzene	8.33	78	481151	20.324	ug/L	100
35) Trichloroethene	9.09	95	133746	19.973	ug/L	98
36) Methylcyclohexane	9.34	83	222449	19.757	ug/L	98
40) 1,2-Dichloropropane	9.37	63	111468	20.823	ug/L	100
41) Bromodichloromethane	9.65	83	154068	20.487	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	176072	20.629	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	120380	44.667	ug/L	99
44) Toluene	10.39	91	540440	20.578	ug/L	98
45) trans-1,3-Dichloropropene	10.61	75	149333	20.792	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	93941	21.587	ug/L	96
47) Tetrachloroethene	10.87	164	149995	24.161	ug/L	99
49) 2-Hexanone	10.97	43	80903	45.480	ug/L	99
50) Dibromochloromethane	11.13	129	112635	20.820	ug/L	100
51) 1,2-Dibromoethane	11.24	107	89775	20.993	ug/L	95
52) Chlorobenzene	11.66	112	357021	20.256	ug/L	97
53) Ethylbenzene	11.73	91	609029	20.672	ug/L	98
54) m,p-Xylene	11.84	106	236991	20.683	ug/L	94
55) o-xylene	12.17	106	223011	20.371	ug/L	100
56) Styrene	12.18	104	386446	21.392	ug/L	97
57) Isopropylbenzene	12.46	105	623254	20.790	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	102889	21.394	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	74570	21.404	ug/L	98
62) Bromoform	12.35	173	63359	20.651	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	289053	20.825	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	282542	20.354	ug/L	100
65) 1,2-Dichlorobenzene	13.87	146	259870	20.910	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	15640	20.747	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	210205	20.374	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	172287	20.330	ug/L	97
69) Naphthalene	15.37	128	305746	21.788	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	154023	21.151	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 17.630 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

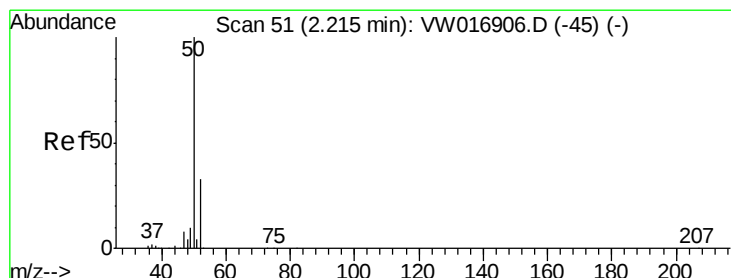
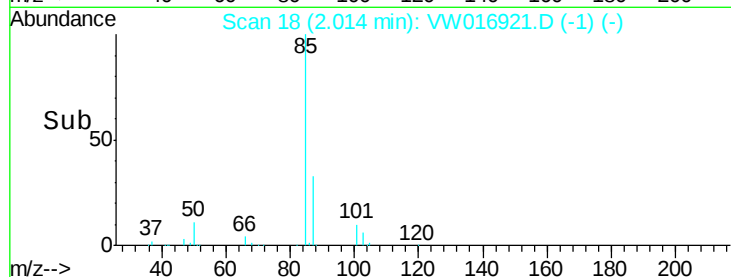
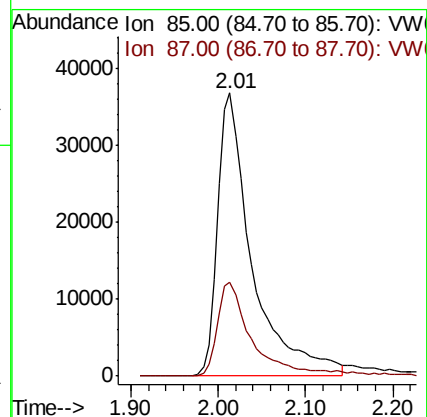
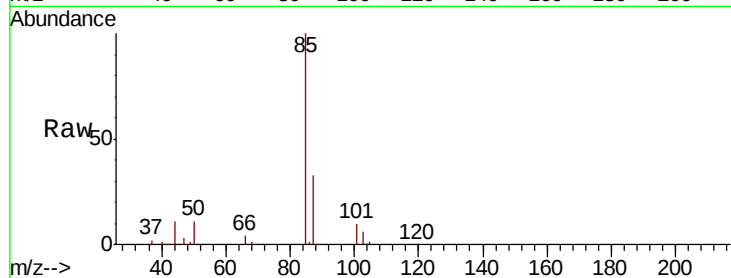
VSTD02512

Tot Ion: 85 Resp: 100733

Ion Ratio Lower Upper

85 100

87 31.9 20.4 37.8



#3

Chloromethane

Concen: 17.226 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW016921.D

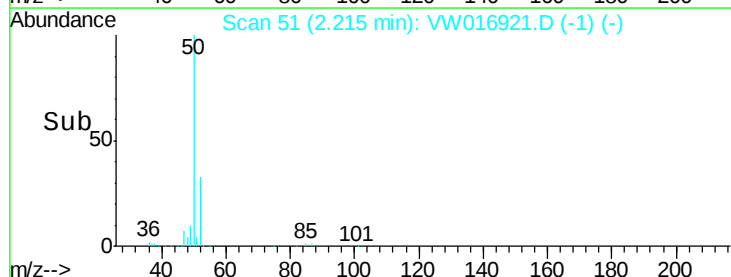
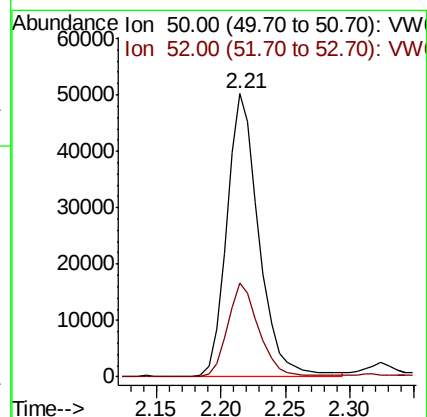
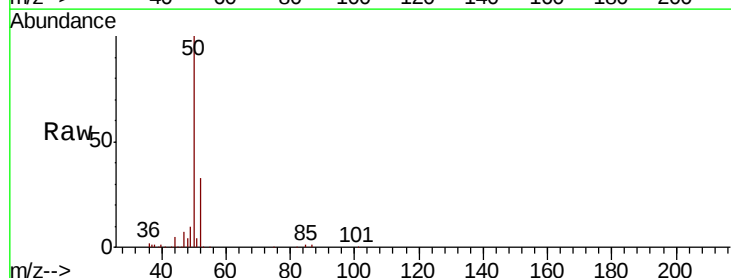
Acq: 15 Oct 2020 18:53

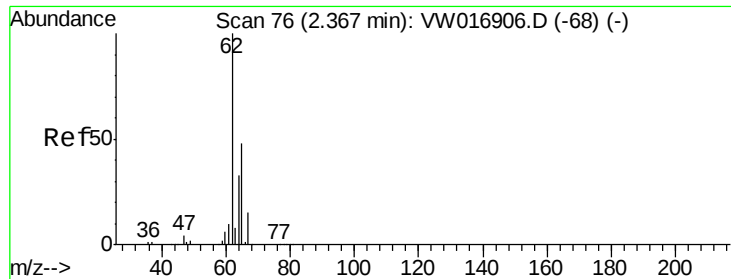
Tgt Ion: 50 Resp: 86758

Ion Ratio Lower Upper

50 100

52 33.0 22.7 42.3





#5

Vinyl chloride

Concen: 21.321 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

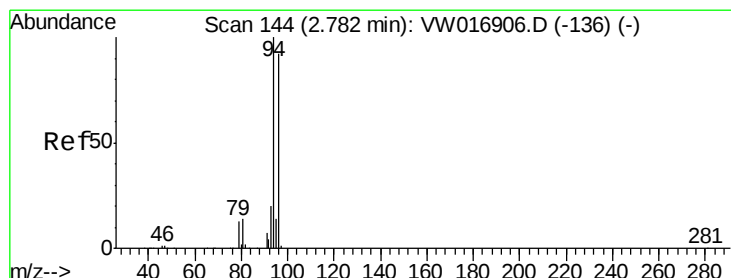
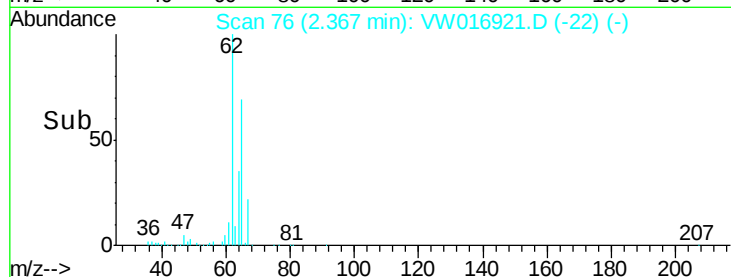
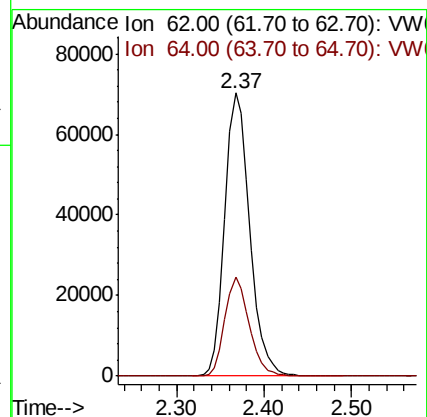
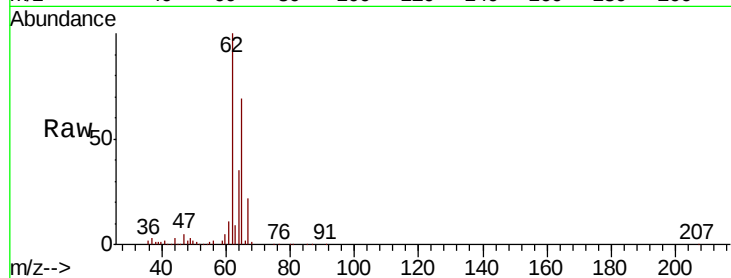
VSTD02512

Tot Ion: 62 Resp: 139406

Ion Ratio Lower Upper

62 100

64 34.9 23.5 43.7



#6

Bromomethane

Concen: 19.450 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW016921.D

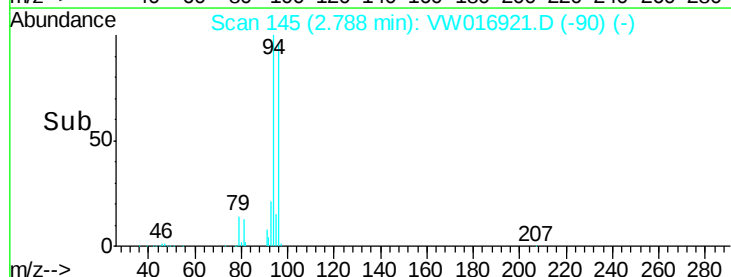
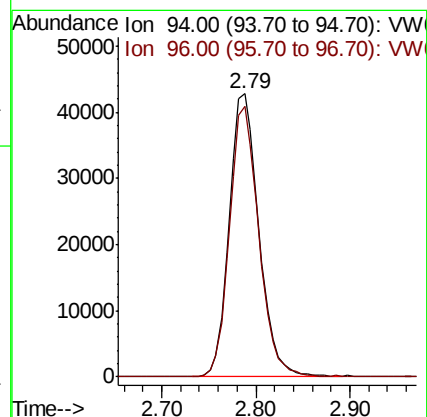
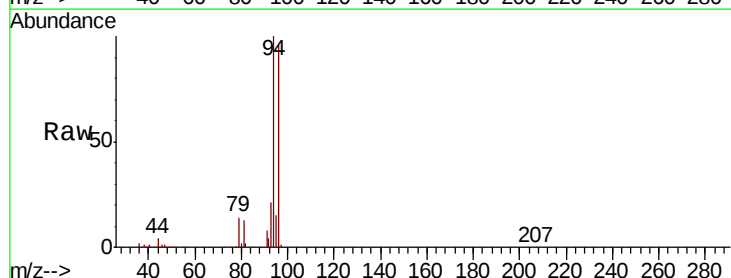
Acq: 15 Oct 2020 18:53

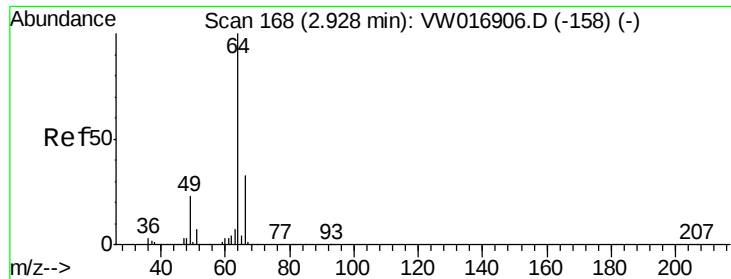
Tgt Ion: 94 Resp: 93493

Ion Ratio Lower Upper

94 100

96 94.7 9.5 180.7





#8

Chloroethane

Concen: 20.701 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

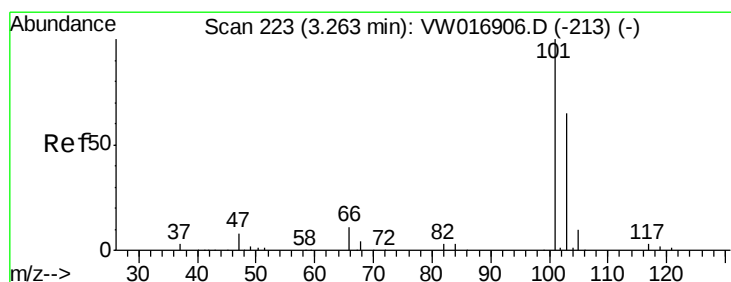
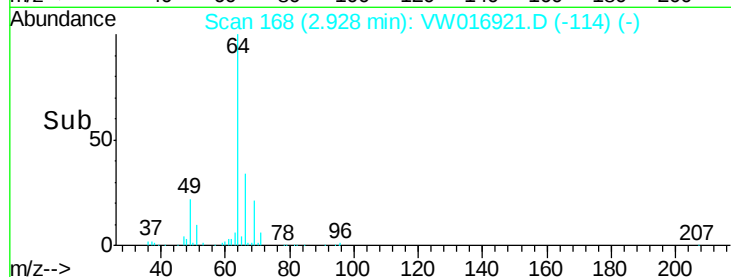
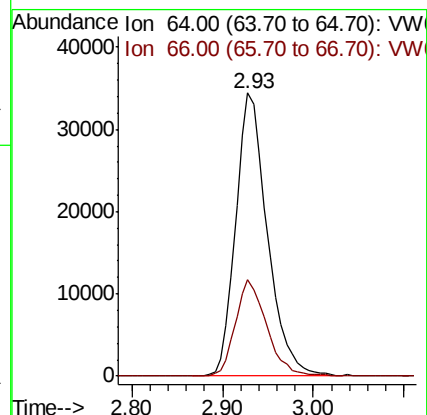
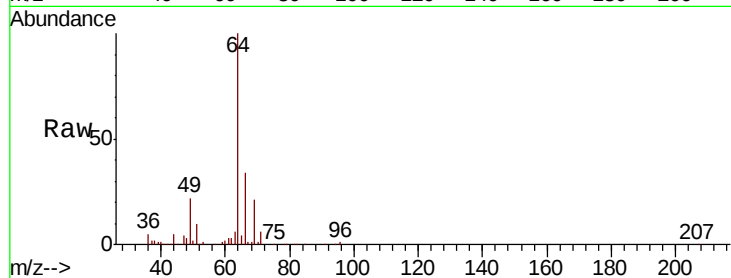
VSTD02512

Tot Ion: 64 Resp: 83538

Ion Ratio Lower Upper

64 100

66 34.0 22.5 41.7



#9

Trichlorofluoromethane

Concen: 19.260 ug/L

RT: 3.27 min Scan# 224

Delta R.T. 0.01 min

Lab File: VW016921.D

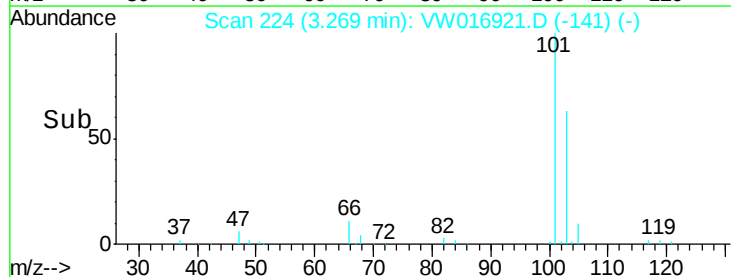
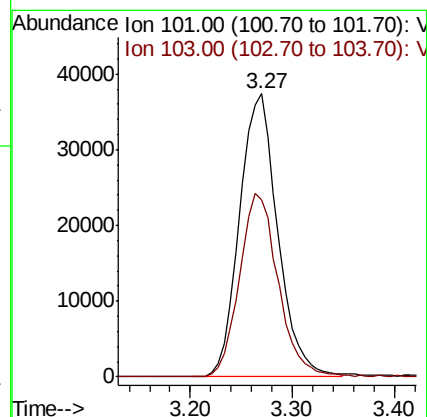
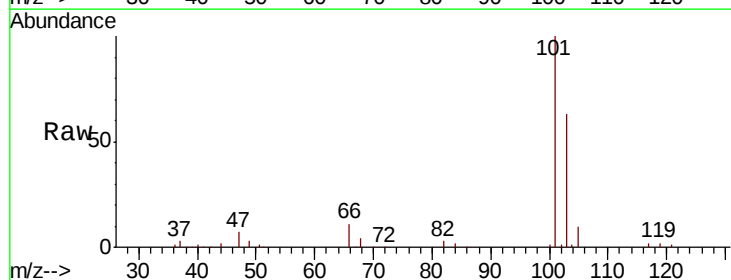
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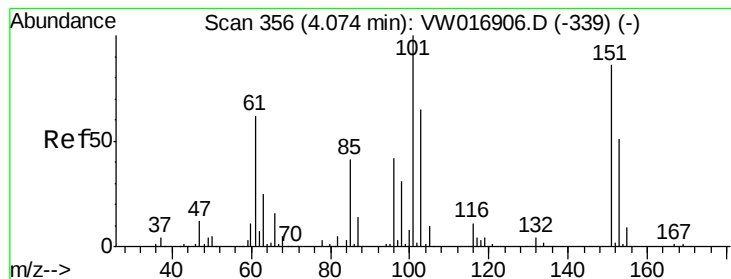
Tgt Ion: 101 Resp: 97301

Ion Ratio Lower Upper

101 100

103 65.6 45.2 84.0





#11

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

Concen: 20.824 ug/L

RT: 4.07 min Scan# 356

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

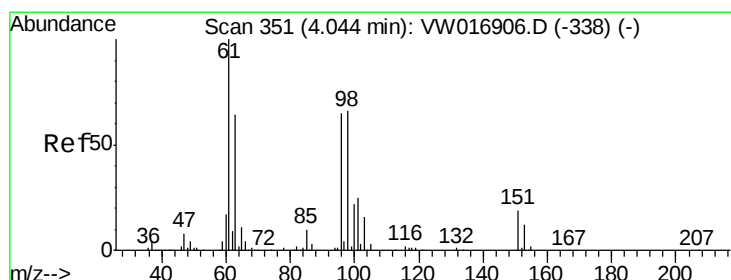
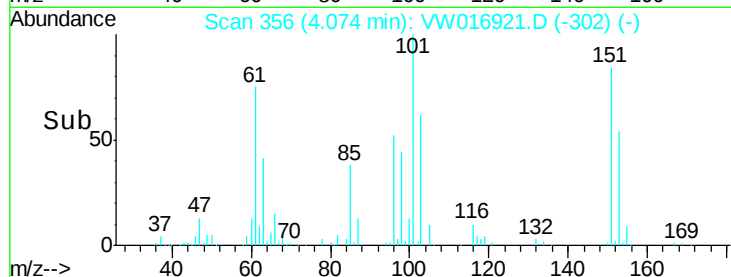
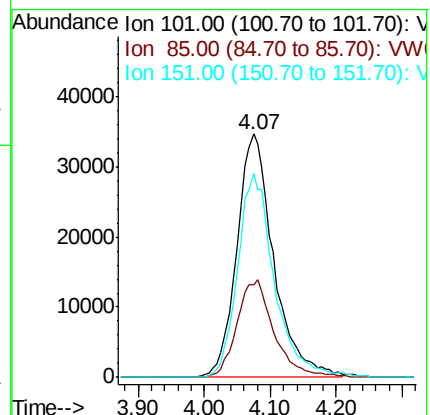
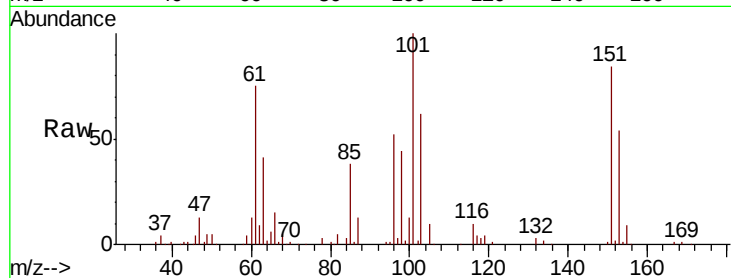
Tot Ion:101 Resp: 134019

Ion Ratio Lower Upper

101 100

85 39.4 31.7 47.5

151 82.6 66.6 99.8



#12

1,1-Dichloroethene

Concen: 20.438 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

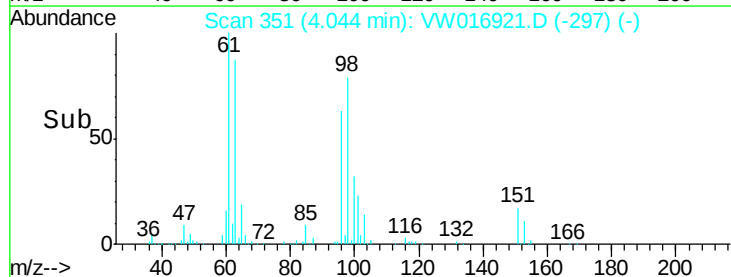
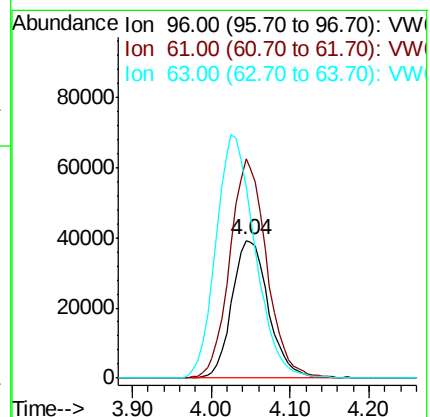
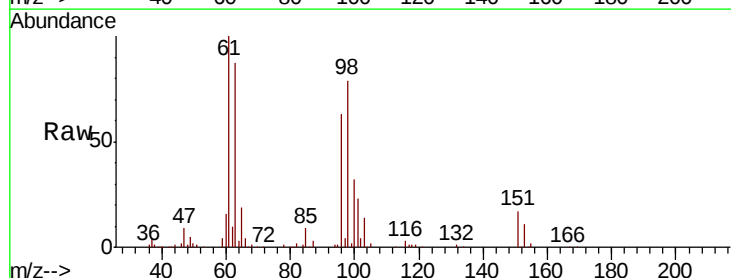
Tgt Ion: 96 Resp: 126317

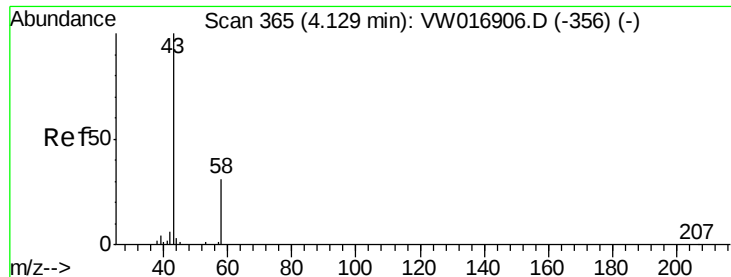
Ion Ratio Lower Upper

96 100

61 159.8 105.1 195.1

63 138.8 69.9 129.7#





#13

Acetone

Concen: 41.529 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

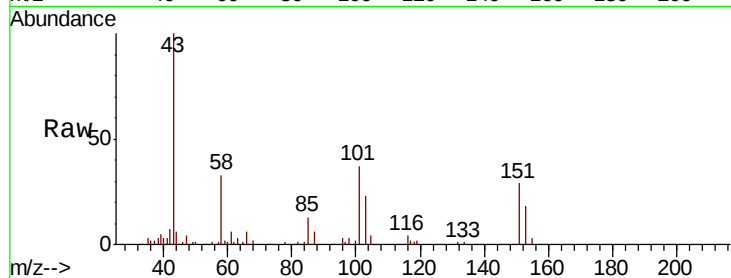
VSTD02512

Tot Ion: 43 Resp: 33568

Ion Ratio Lower Upper

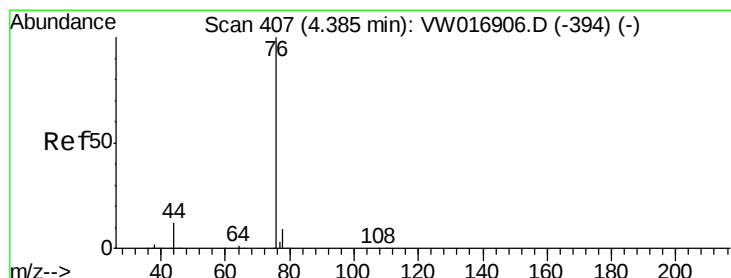
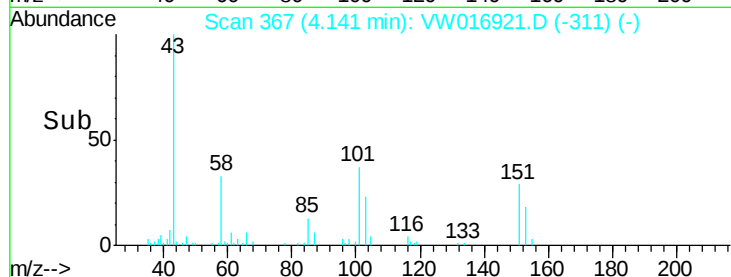
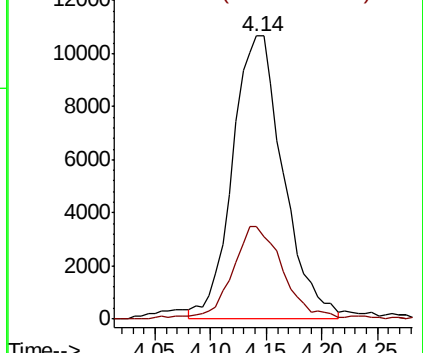
43 100

58 30.0 0.0 67.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 19.319 ug/L

RT: 4.40 min Scan# 409

Delta R.T. 0.01 min

Lab File: VW016921.D

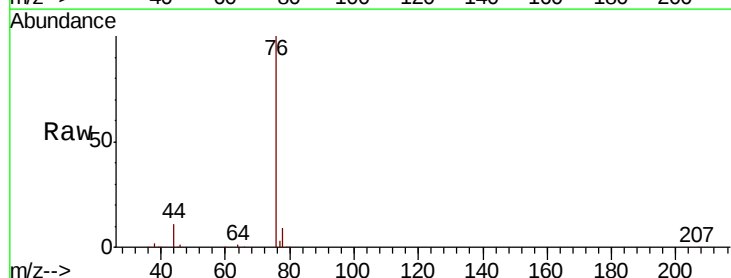
Acq: 15 Oct 2020 18:53

Tgt Ion: 76 Resp: 342367

Ion Ratio Lower Upper

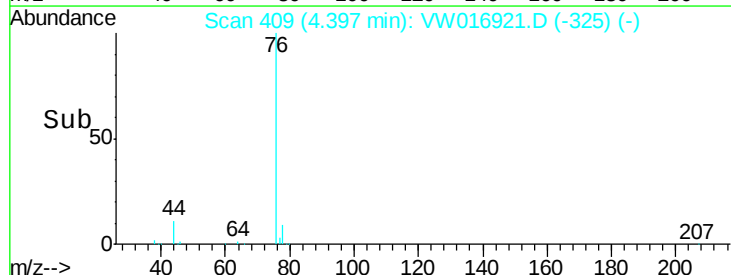
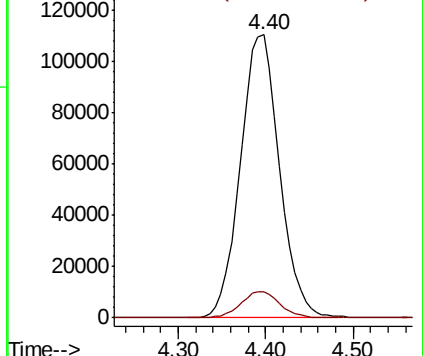
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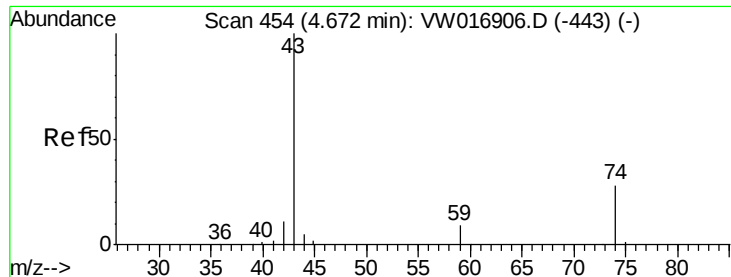
78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

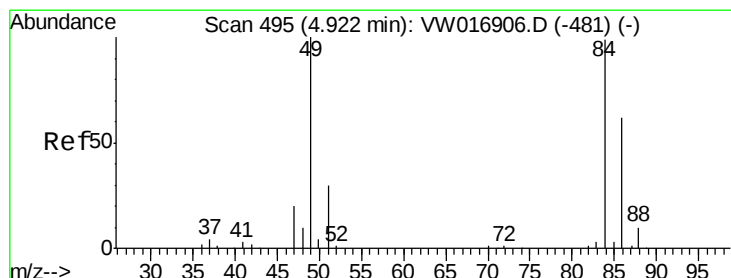
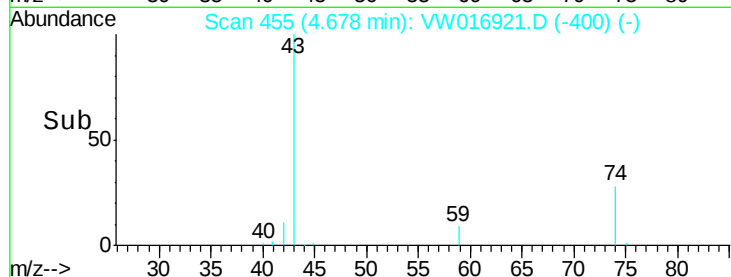
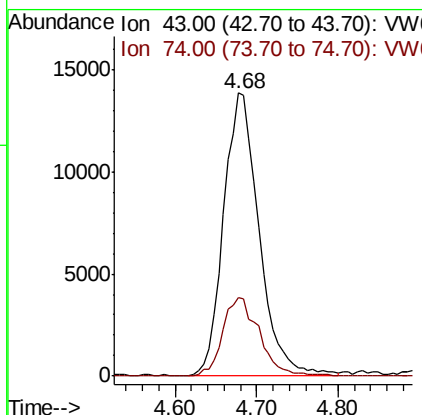
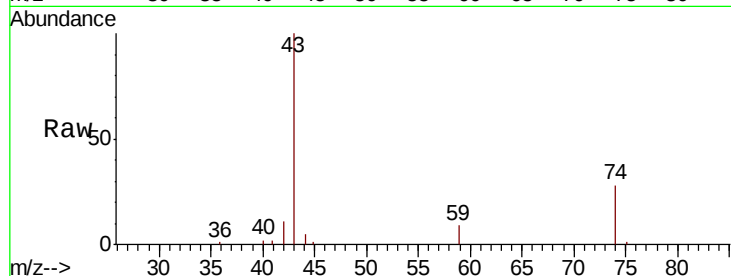




#15
Methyl Acetate
Concen: 21.673 ug/L
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW016921.D
Acq: 15 Oct 2020 18:53

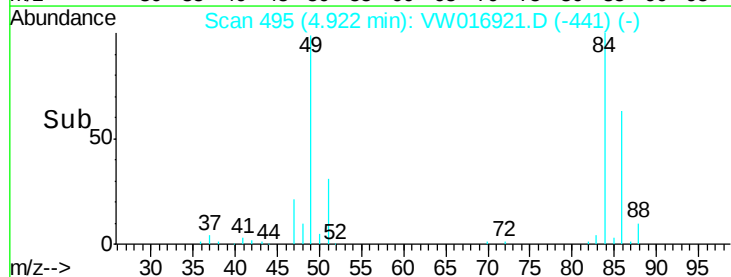
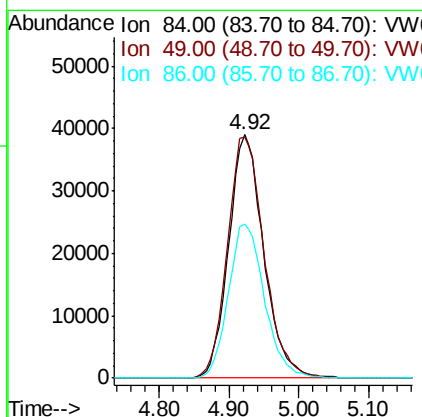
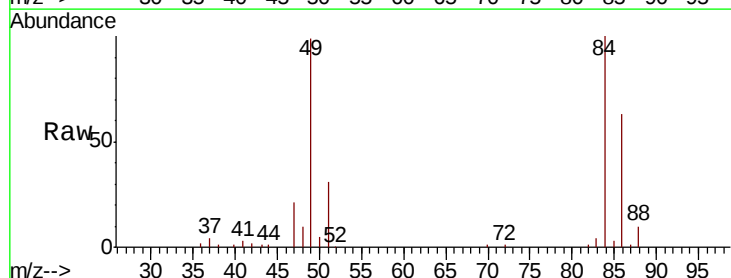
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

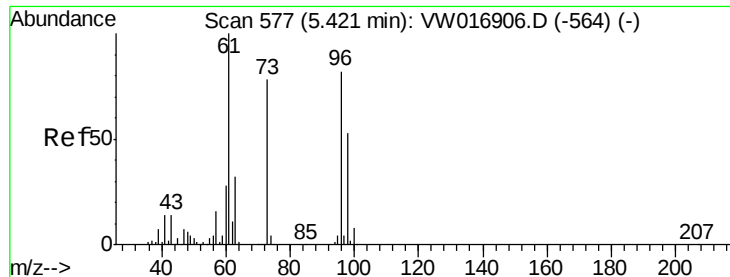
Tot Ion: 43 Resp: 41856
Ion Ratio Lower Upper
43 100
74 28.4 22.7 34.1



#16
Methylene chloride
Concen: 20.589 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW016921.D
Acq: 15 Oct 2020 18:53

Tgt Ion: 84 Resp: 135830
Ion Ratio Lower Upper
84 100
49 99.3 73.1 135.8
86 63.4 46.0 85.4

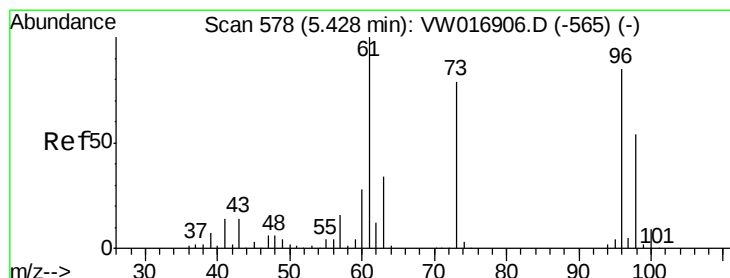
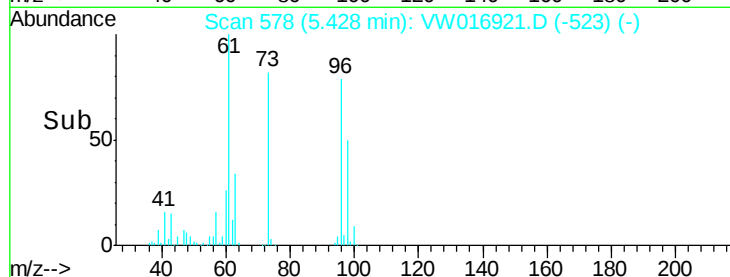
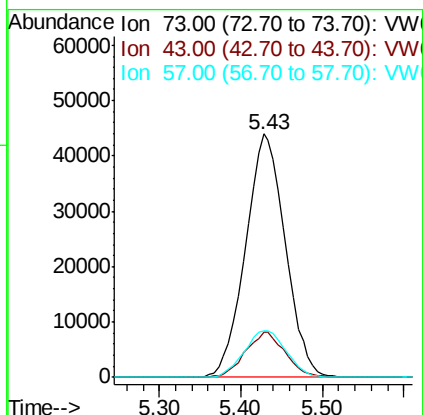
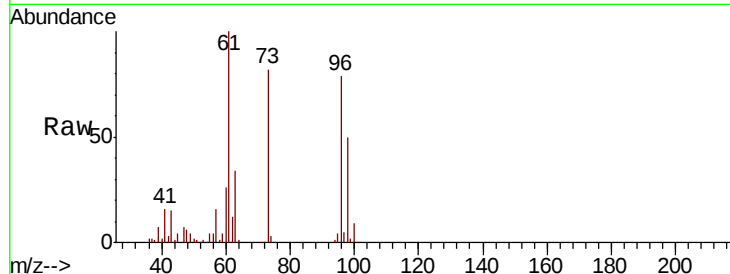




#17
Methvl tert-butvl Ether
Concen: 21.536 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW016921.D
Acq: 15 Oct 2020 18:53

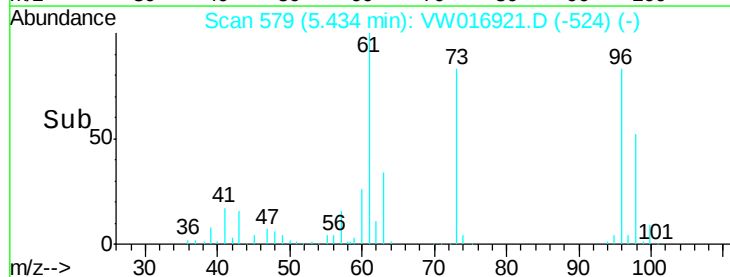
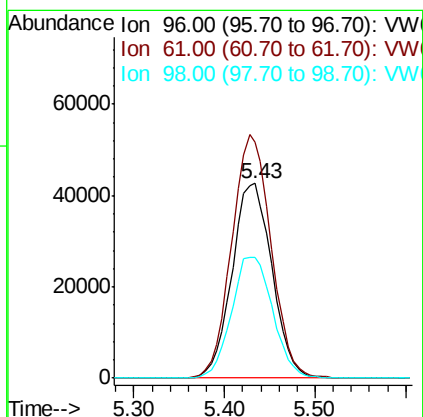
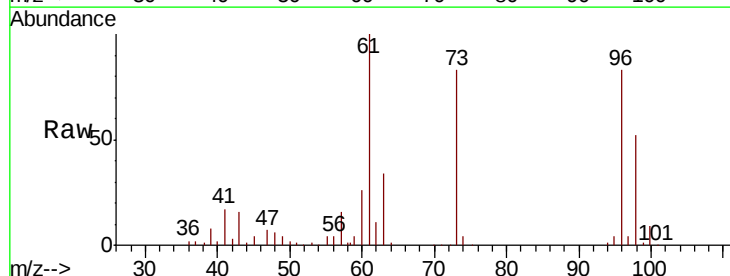
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

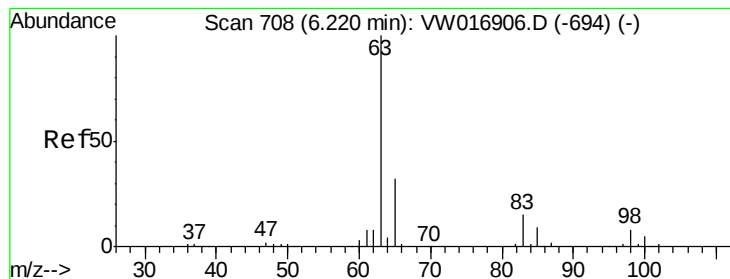
Tot Ion	Ratio	Lower	Upper
73	100		
43	18.6	15.0	22.4
57	20.4	16.4	24.6



#18
trans-1,2-Dichloroethene
Concen: 20.233 ug/L
RT: 5.43 min Scan# 579
Delta R.T. 0.01 min
Lab File: VW016921.D
Acq: 15 Oct 2020 18:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	121.1	82.5	153.3
98	62.4	43.3	80.5





#19

1,1-Dichloroethane

Concen: 20.725 ug/L

RT: 6.23 min Scan# 709

Delta R.T. 0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

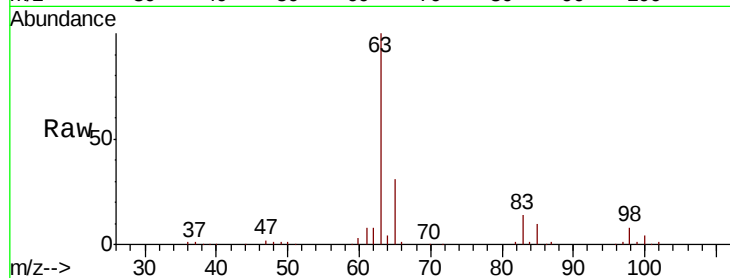
Tot Ion: 63 Resp: 206066

Ion Ratio Lower Upper

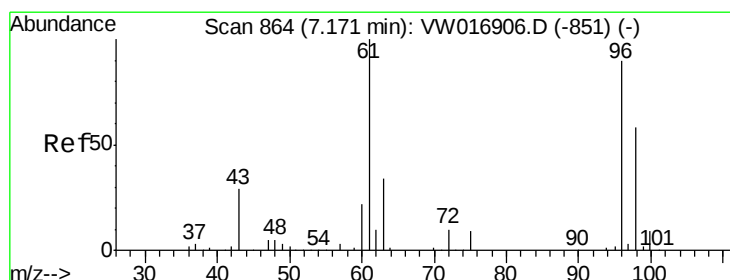
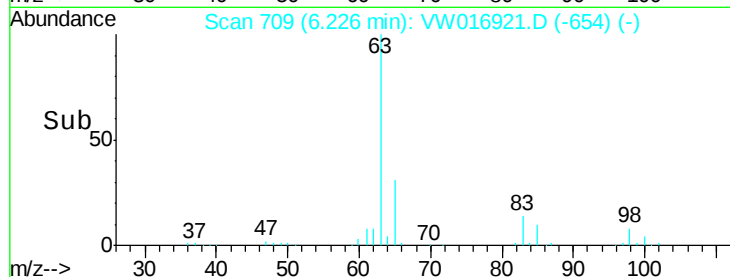
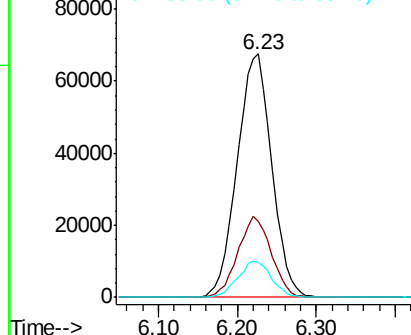
63 100

65 31.4 22.7 42.1

83 14.2 9.9 18.5



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: 39.109 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW016921.D

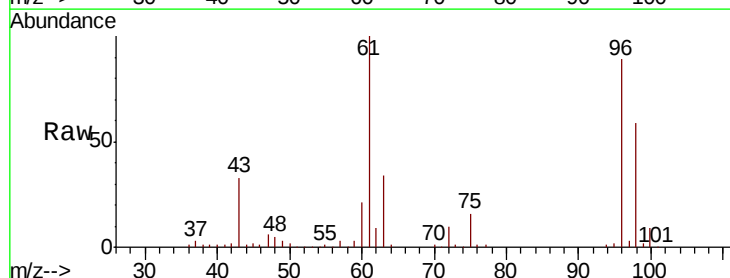
Acq: 15 Oct 2020 18:53

Tgt Ion: 43 Resp: 53068

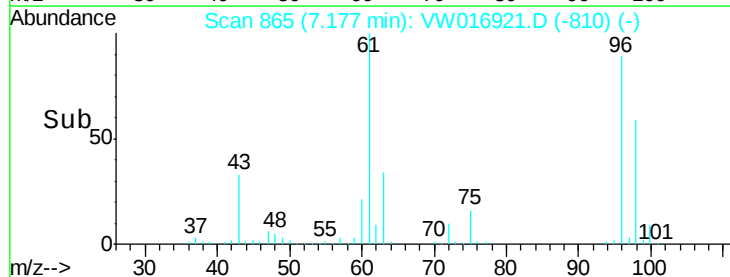
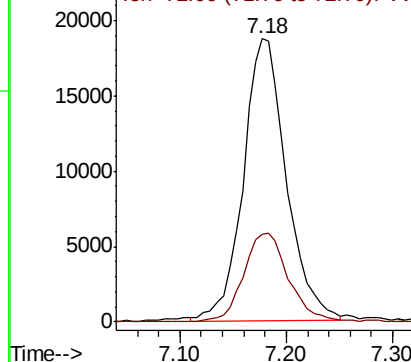
Ion Ratio Lower Upper

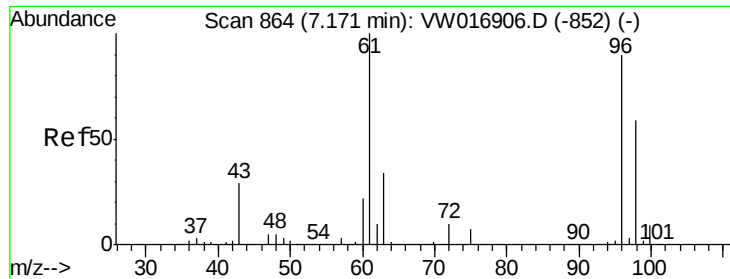
43 100

72 32.7 16.2 48.5



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



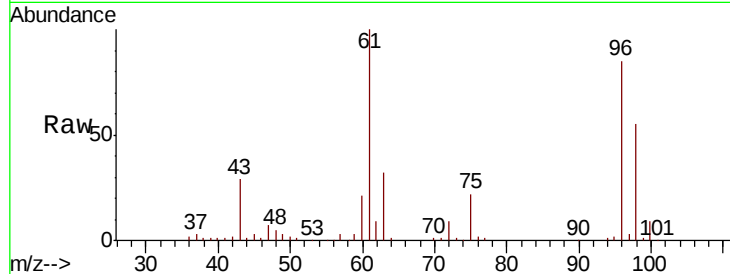


#22

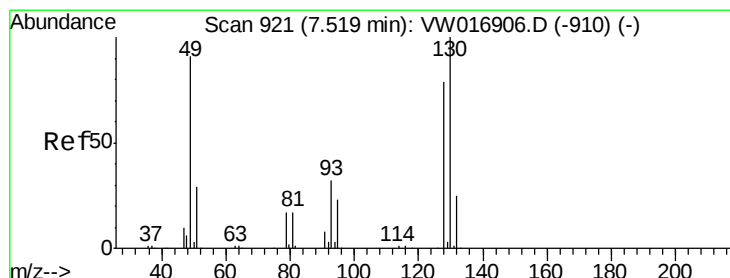
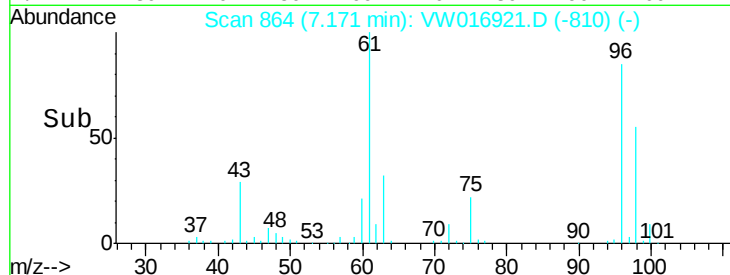
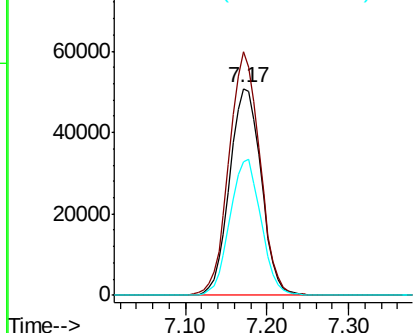
cis-1,2-Dichloroethene
 Concen: 20.691 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

Tot Ion: 96 Resp: 136314
 Ion Ratio Lower Upper
 96 100
 61 117.6 76.0 141.2
 98 64.4 42.7 79.3



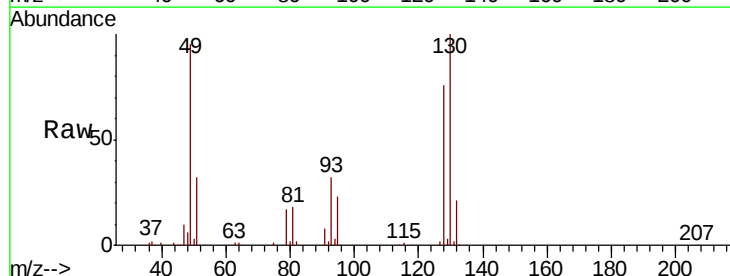
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



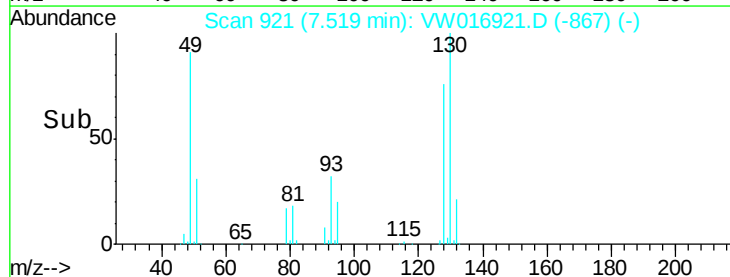
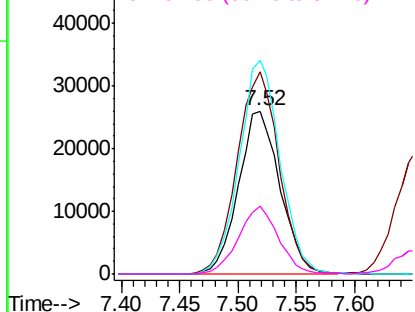
#23

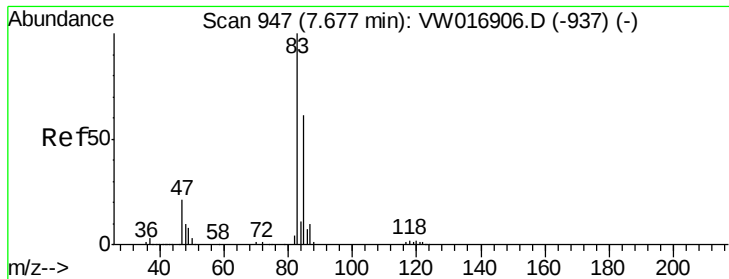
Bromochloromethane
 Concen: 20.787 ug/L
 RT: 7.52 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

Tgt Ion: 128 Resp: 64310
 Ion Ratio Lower Upper
 128 100
 49 123.9 88.5 164.3
 130 131.1 92.9 172.5
 51 41.4 32.6 48.8



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





#25

Chloroform

Concen: 20.793 ug/L

RT: 7.68 min Scan# 948

Delta R.T. 0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

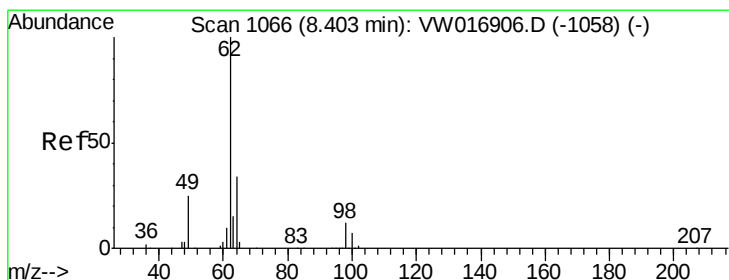
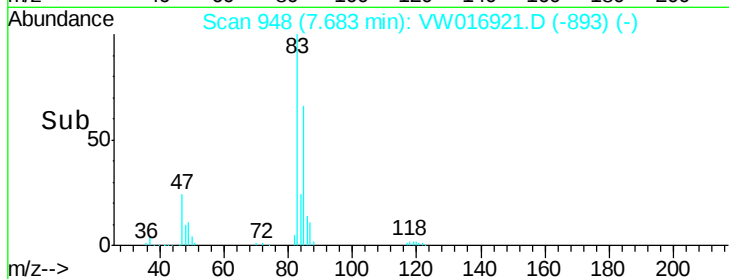
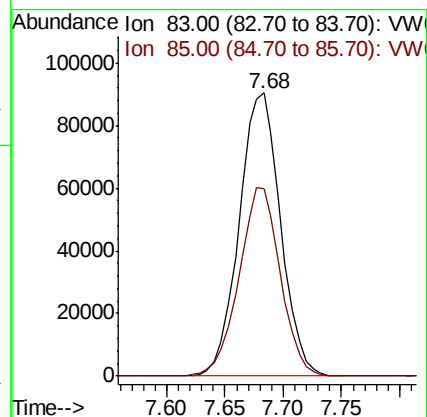
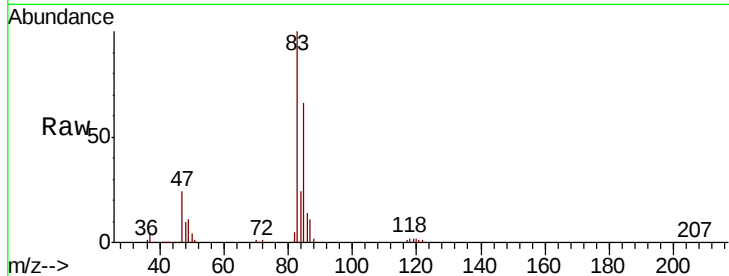
VSTD02512

Tot Ion: 83 Resp: 223263

Ion Ratio Lower Upper

83 100

85 66.6 46.9 87.1



#27

1,2-Dichloroethane

Concen: 20.861 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW016921.D

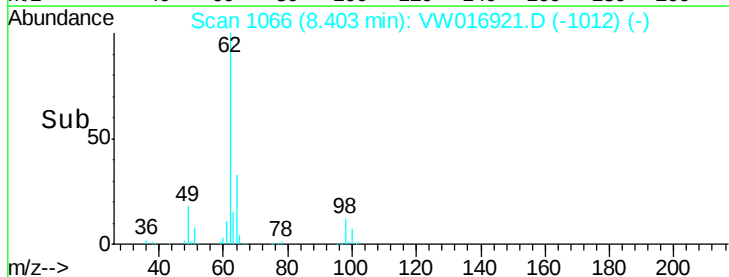
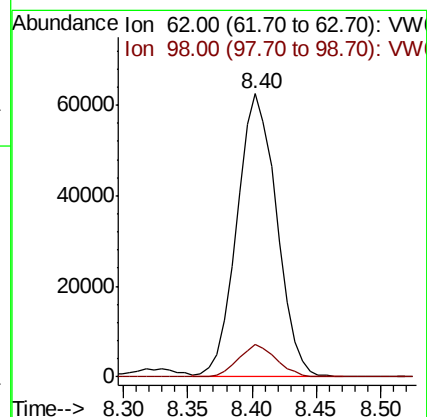
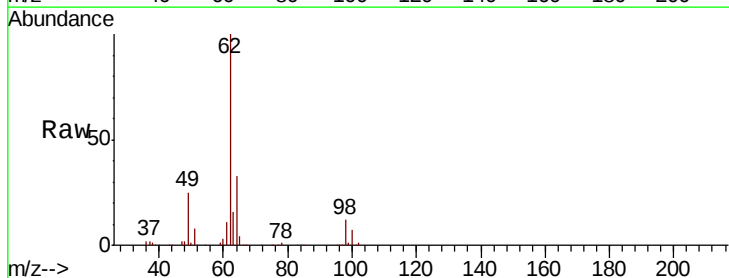
Acq: 15 Oct 2020 18:53

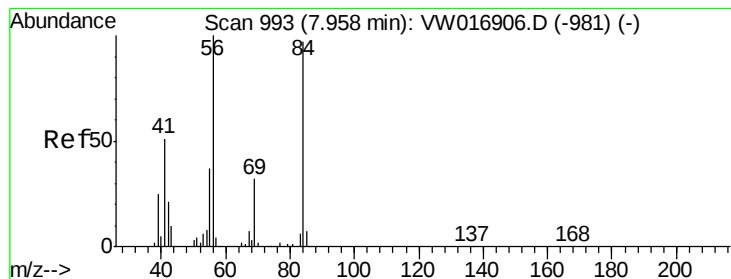
Tgt Ion: 62 Resp: 133994

Ion Ratio Lower Upper

62 100

98 11.7 8.6 12.8





#30

Cyclohexane

Concen: 19.868 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

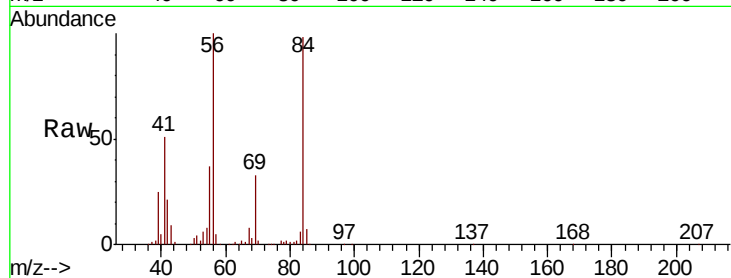
Tot Ion: 56 Resp: 181636

Ion Ratio Lower Upper

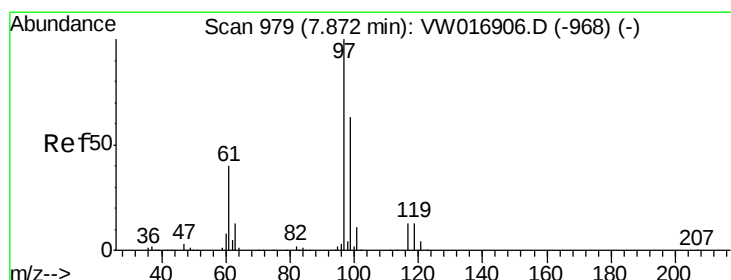
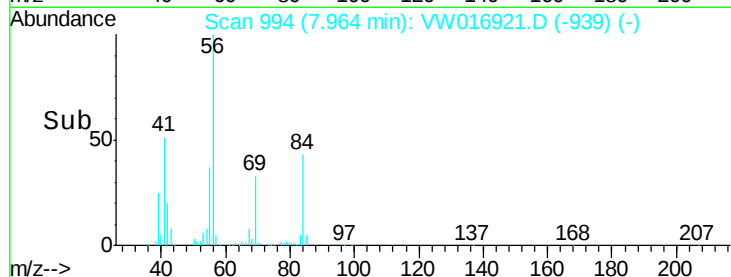
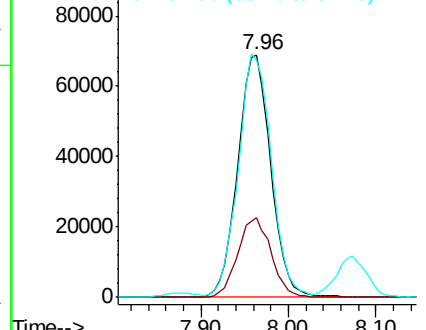
56 100

69 32.9 26.1 39.1

84 100.3 79.3 118.9



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: 20.485 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

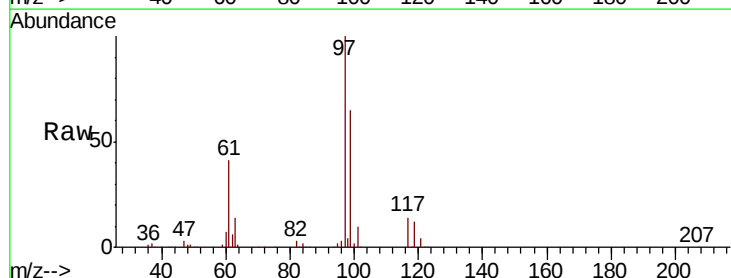
Tgt Ion: 97 Resp: 192044

Ion Ratio Lower Upper

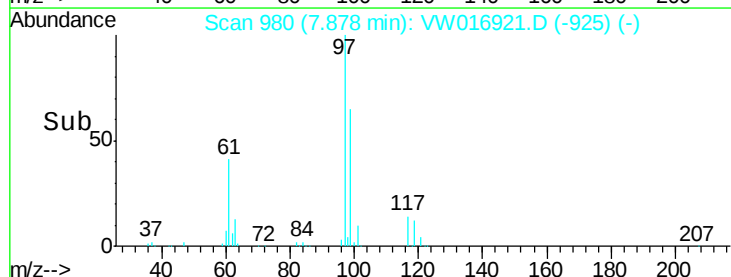
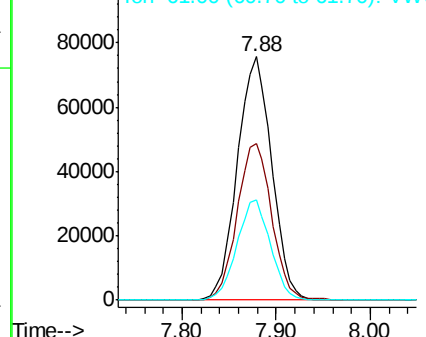
97 100

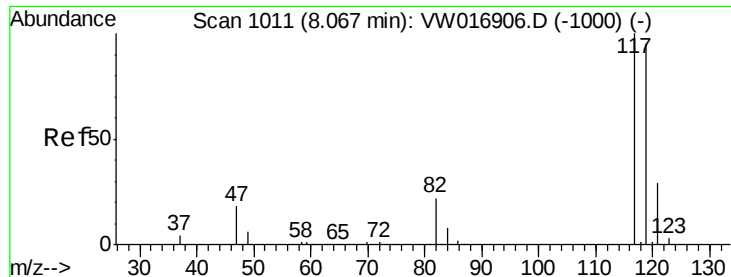
99 64.3 51.5 77.3

61 40.2 32.5 48.7



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: 20.167 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

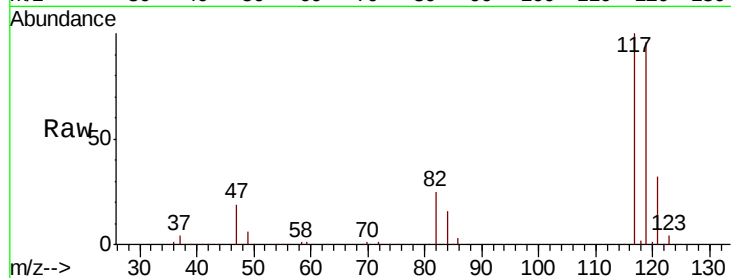
VSTD02512

Tot Ion:117 Resp: 184498

Ion Ratio Lower Upper

117 100

119 94.2 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

80000

60000

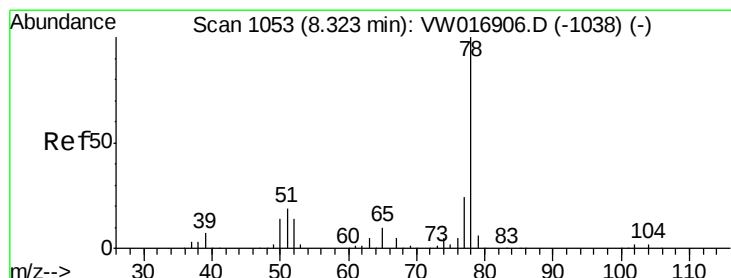
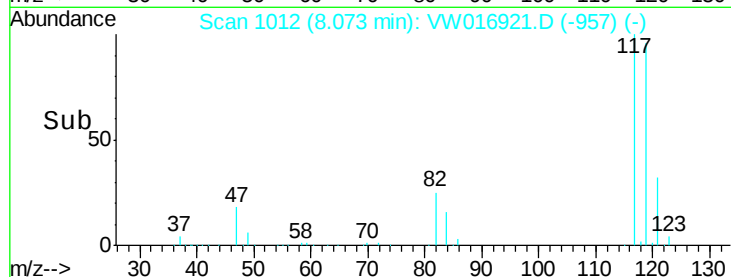
40000

20000

0

Time-->

7.95 8.00 8.05 8.10 8.15



#34

Benzene

Concen: 20.324 ug/L

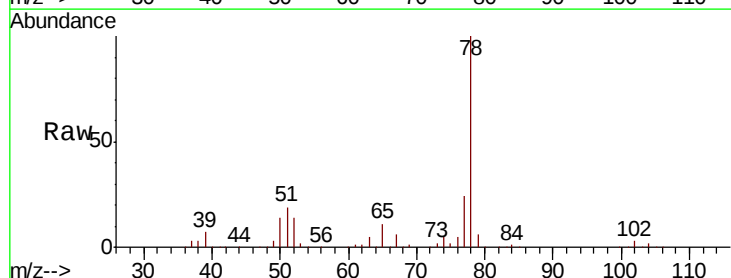
RT: 8.33 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Tgt Ion: 78 Resp: 481151



Abundance Ion 78.00 (77.70 to 78.70): VW

250000

200000

150000

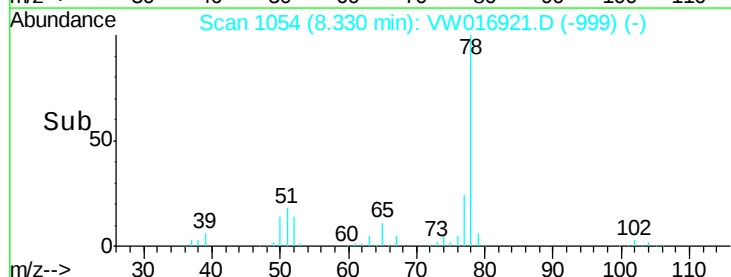
100000

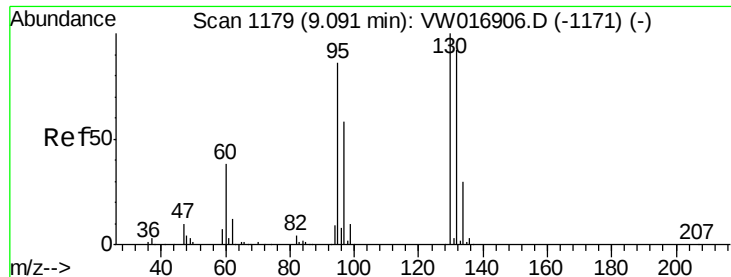
50000

0

Time-->

8.20 8.30 8.40

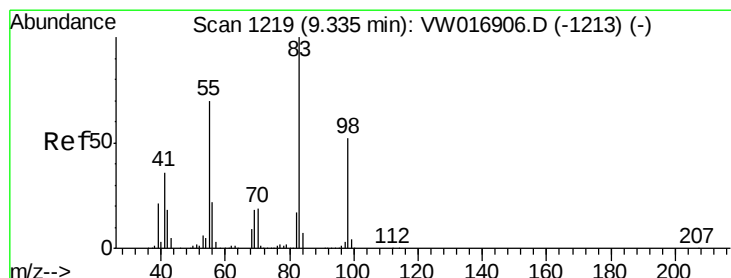
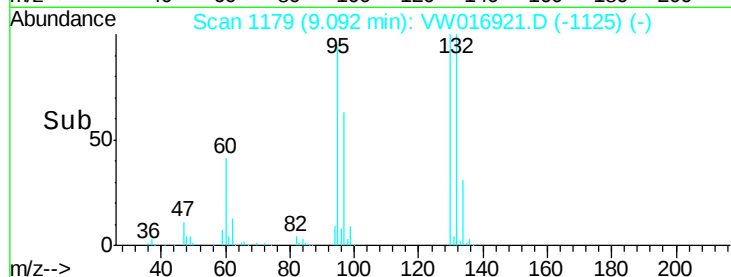
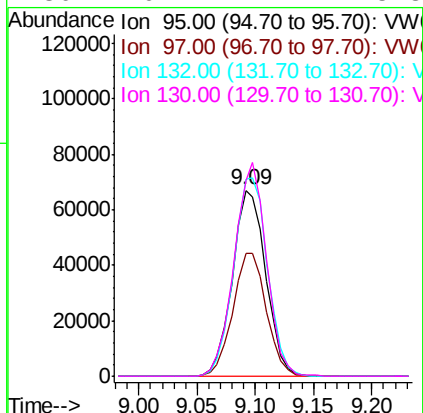
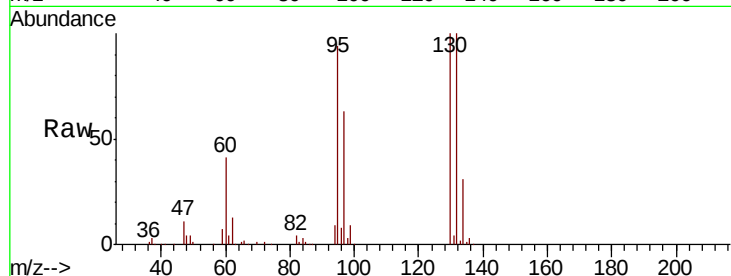




#35
 Trichloroethene
 Concen: 19.973 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

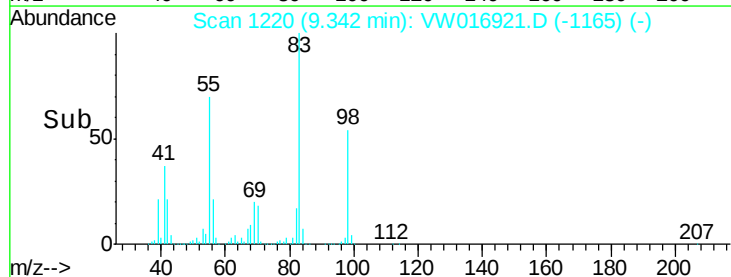
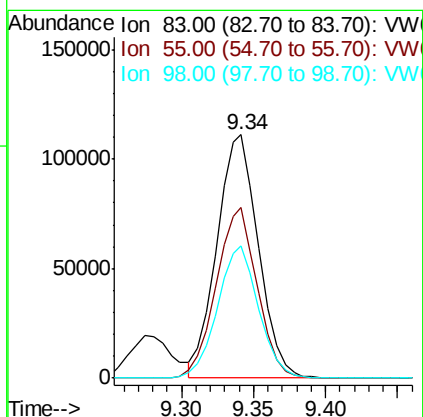
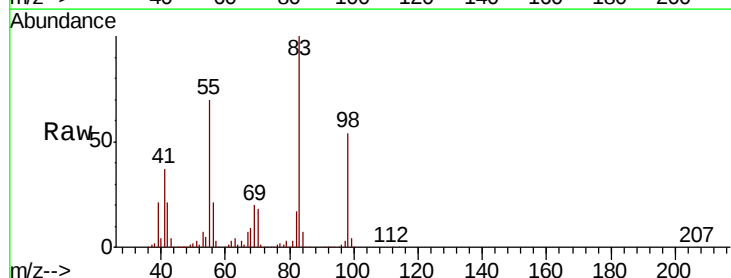
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

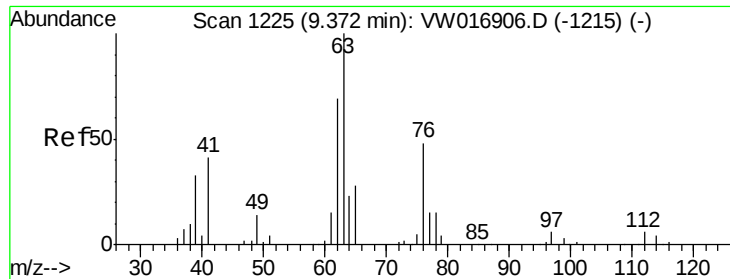
Tot Ion:	95	Resp:	133746
Ion	Ratio	Lower	Upper
95	100		
97	66.6	44.7	83.1
132	108.5	73.8	137.2
130	110.7	77.1	143.3



#36
 Methylcyclohexane
 Concen: 19.757 ug/L
 RT: 9.34 min Scan# 1220
 Delta R.T. 0.01 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

Tgt Ion:	83	Resp:	222449
Ion	Ratio	Lower	Upper
83	100		
55	69.0	54.2	81.4
98	53.9	41.4	62.2

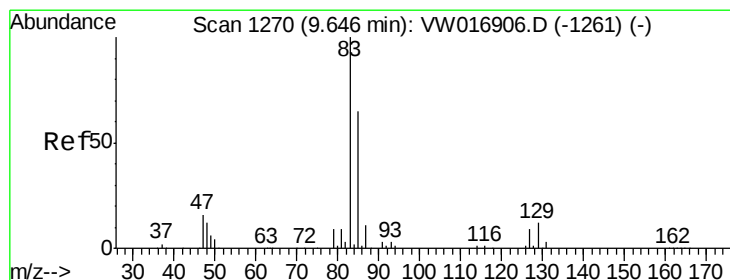
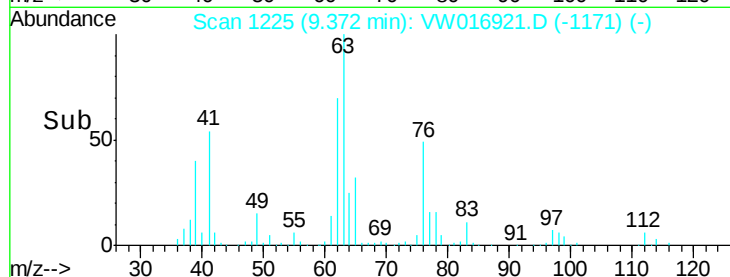
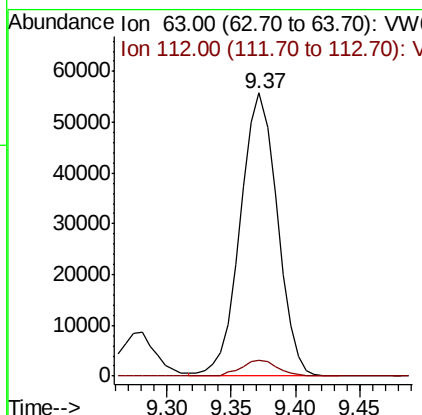
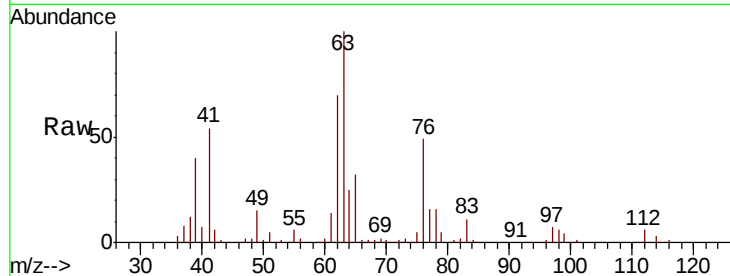




#40
 1,2-Dichloropropane
 Concen: 20.823 ug/L
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

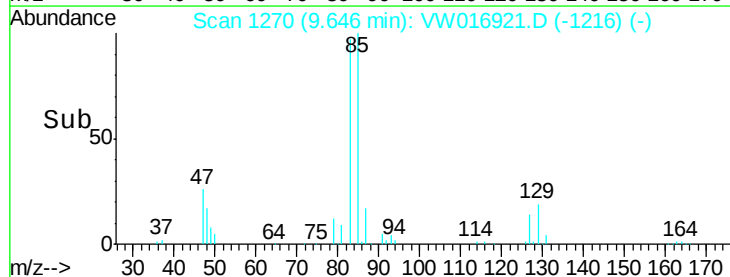
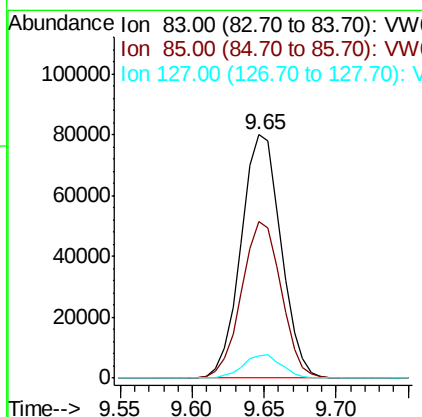
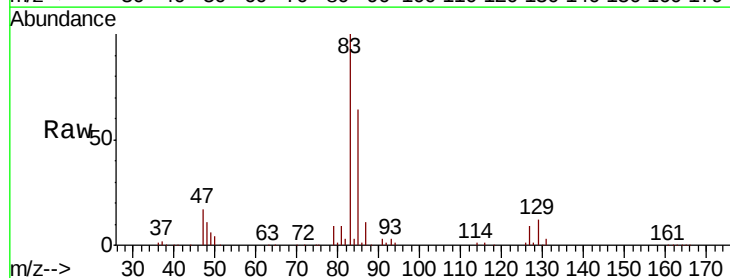
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

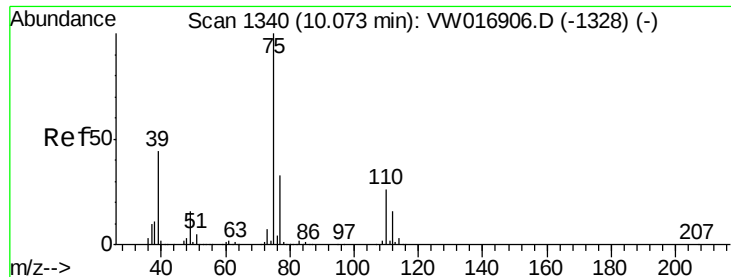
Tot Ion: 63 Resp: 111468
 Ion Ratio Lower Upper
 63 100
 112 5.6 4.5 6.7



#41
 Bromodichloromethane
 Concen: 20.487 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

Tgt Ion: 83 Resp: 154068
 Ion Ratio Lower Upper
 83 100
 85 64.5 46.2 85.8
 127 9.3 7.5 11.3





#42

cis-1,3-Dichloropropene

Concen: 20.629 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampled :

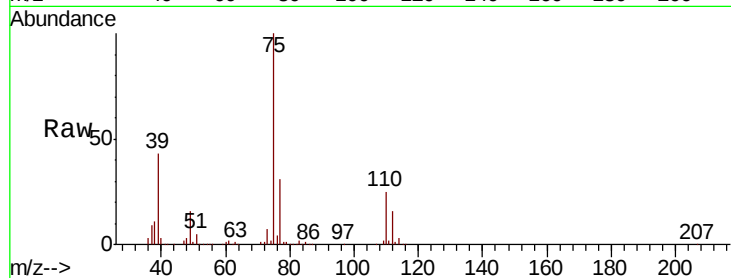
VSTD02512

Tot Ion: 75 Resp: 176072

Ion Ratio Lower Upper

75 100

77 31.0 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

80000

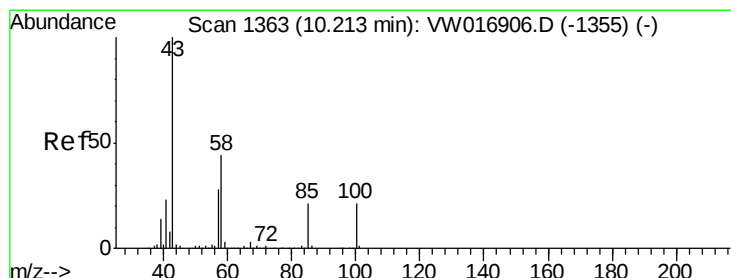
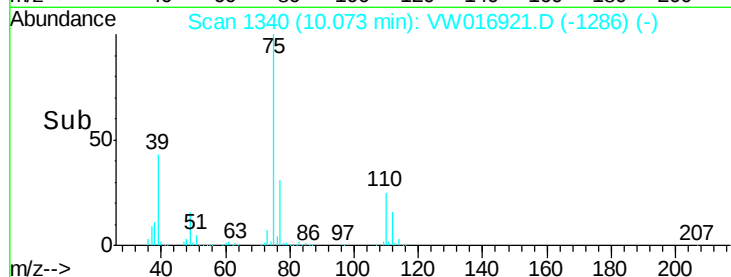
60000

40000

20000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 44.667 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

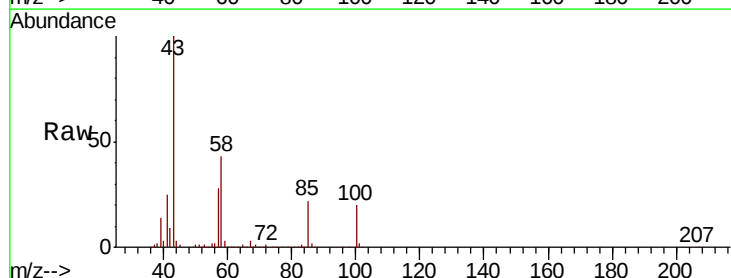
Tgt Ion: 43 Resp: 120380

Ion Ratio Lower Upper

43 100

58 43.0 34.7 52.1

100 20.3 16.9 25.3



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

250000

200000

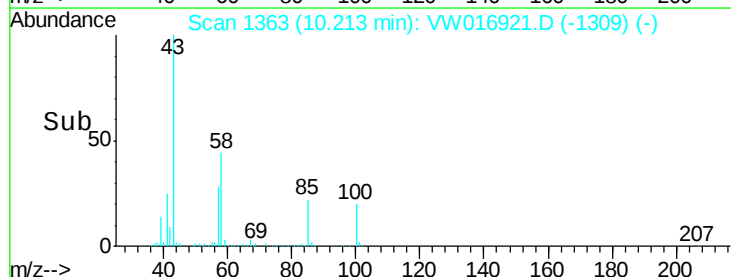
150000

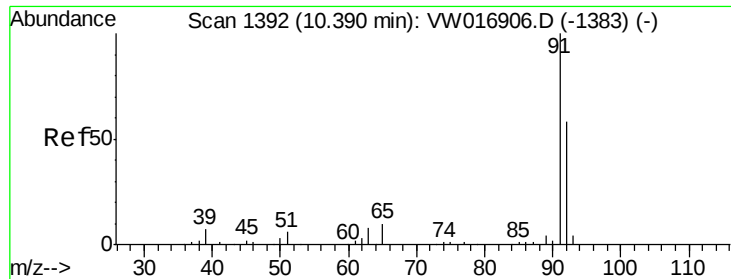
100000

50000

0

Time-->





#44

Toluene

Concen: 20.578 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

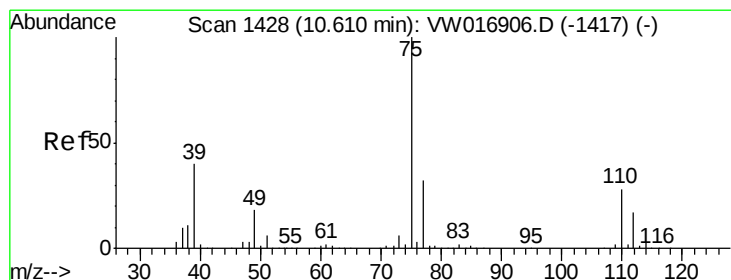
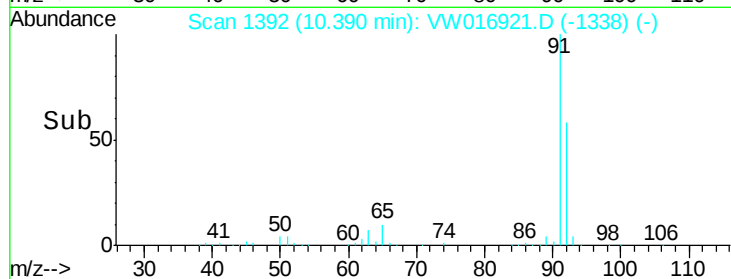
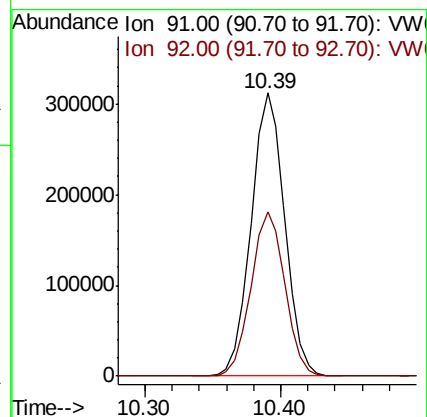
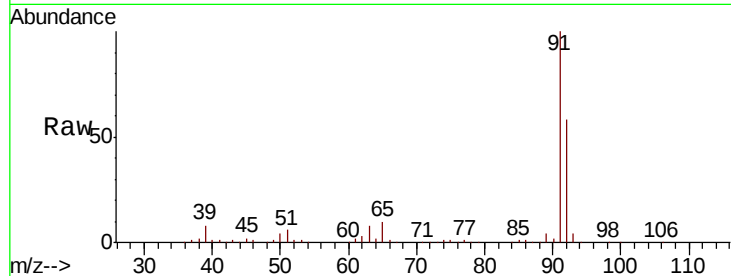
VSTD02512

Tot Ion: 91 Resp: 540440

Ion Ratio Lower Upper

91 100

92 57.9 39.4 73.2



#45

trans-1,3-Dichloropropene

Concen: 20.792 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016921.D

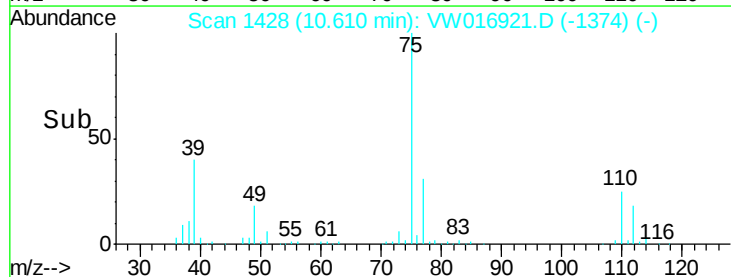
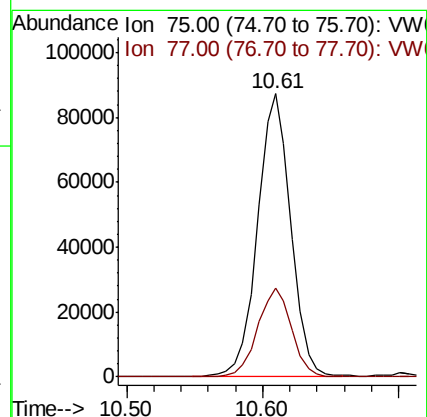
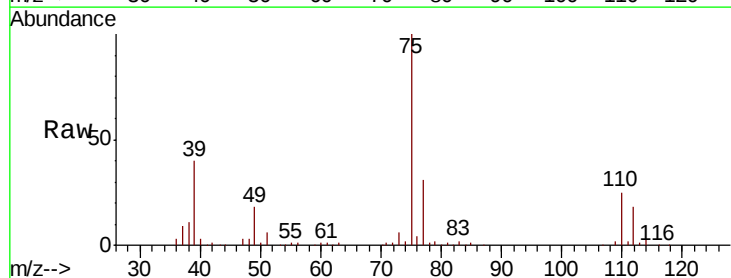
Acq: 15 Oct 2020 18:53

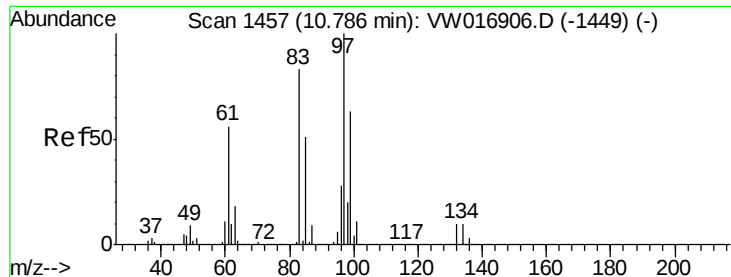
Tgt Ion: 75 Resp: 149333

Ion Ratio Lower Upper

75 100

77 31.3 22.2 41.2





#46

1,1,2-Trichloroethane

Concen: 21.587 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tot Ion: 97 Resp: 93941

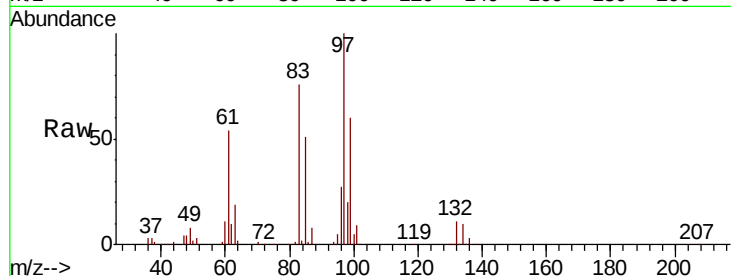
Ion Ratio Lower Upper

97 100

83 75.6 56.8 105.4

85 51.4 37.0 68.6

99 60.2 44.2 82.2



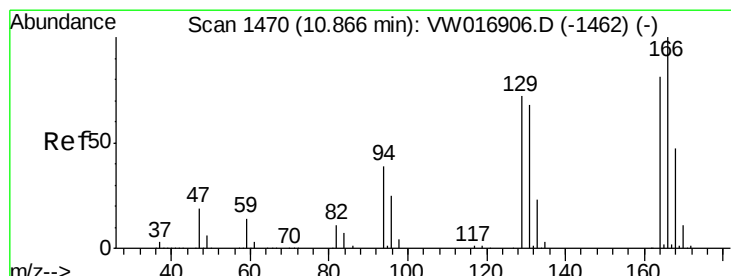
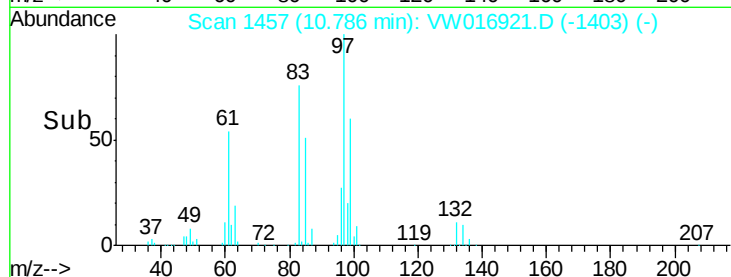
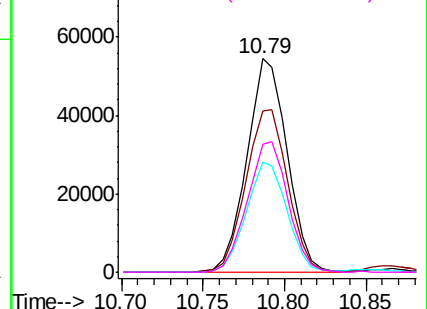
Abundance

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: 24.161 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Tgt Ion: 164 Resp: 149995

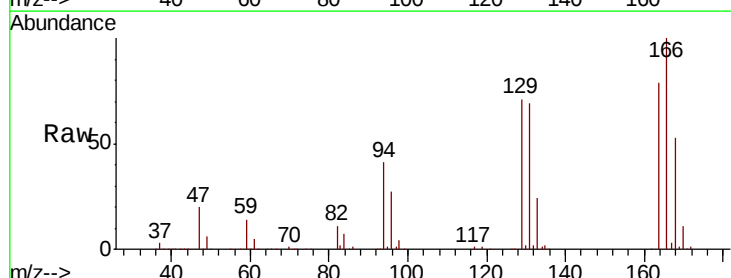
Ion Ratio Lower Upper

164 100

129 89.8 61.7 114.7

131 87.5 59.7 110.9

166 126.8 88.3 164.1



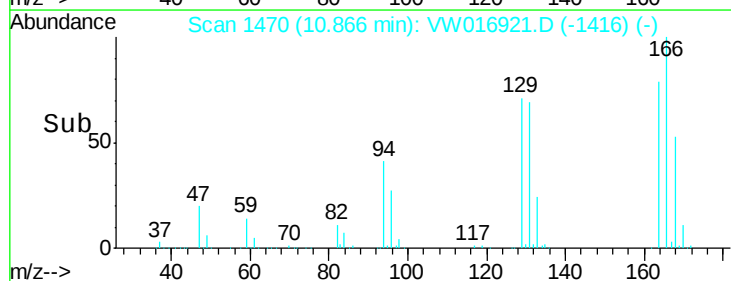
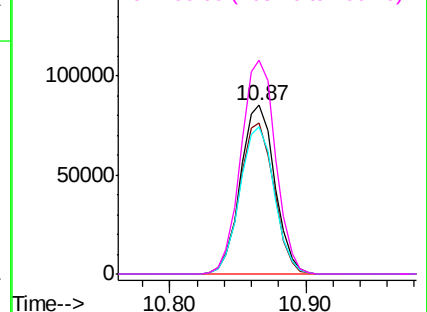
Abundance

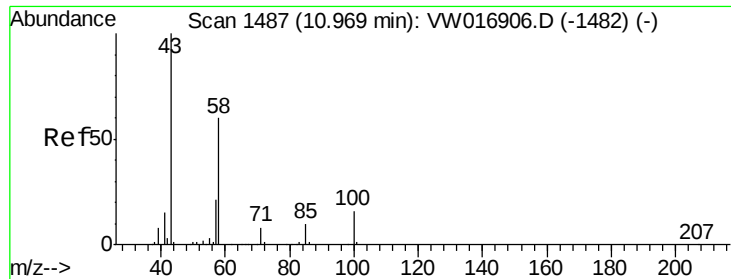
Ion 164.00 (163.70 to 164.70): V

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: 45.480 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tot Ion: 43 Resp: 80903

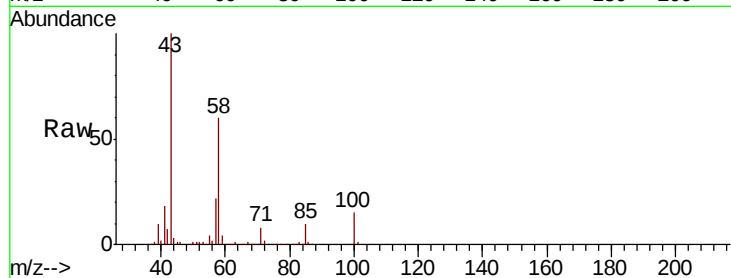
Ion Ratio Lower Upper

43 100

58 58.7 47.1 70.7

57 21.1 16.2 24.4

100 16.2 13.3 19.9

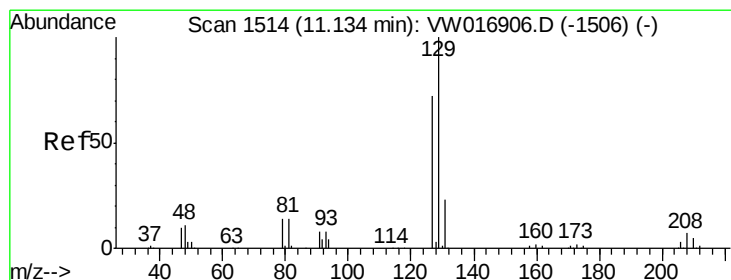
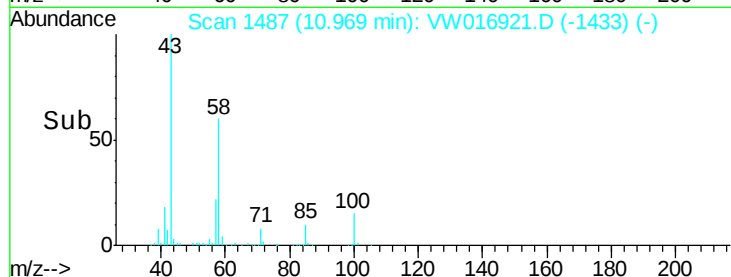
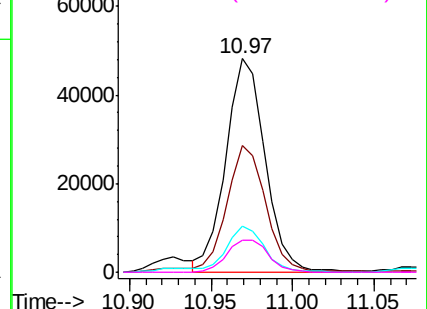


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 20.820 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VW016921.D

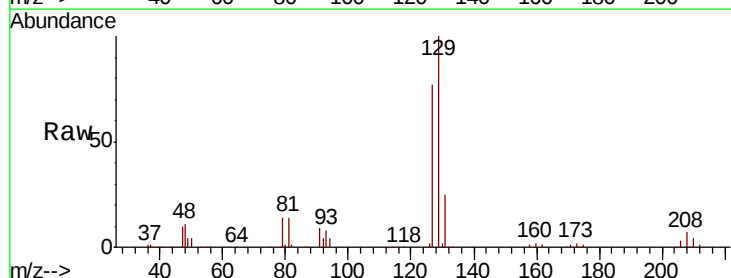
Acq: 15 Oct 2020 18:53

Tgt Ion: 129 Resp: 112635

Ion Ratio Lower Upper

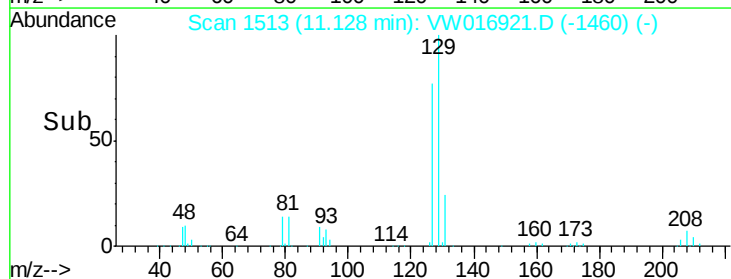
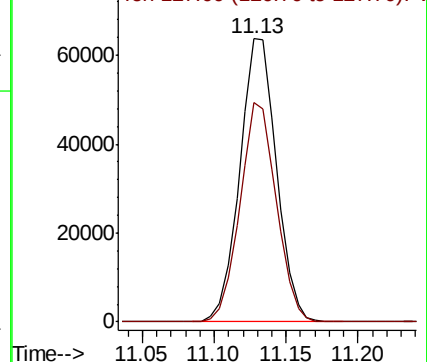
129 100

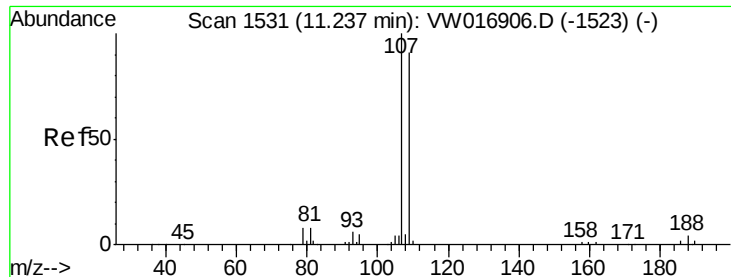
127 77.5 54.0 100.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

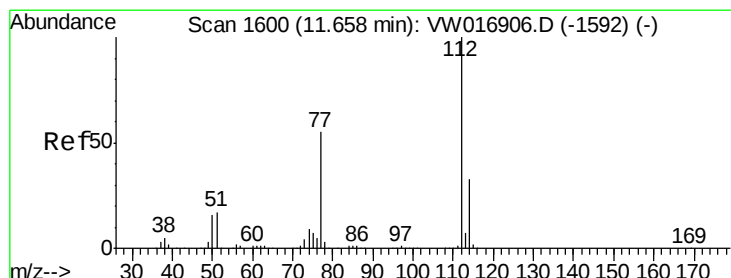
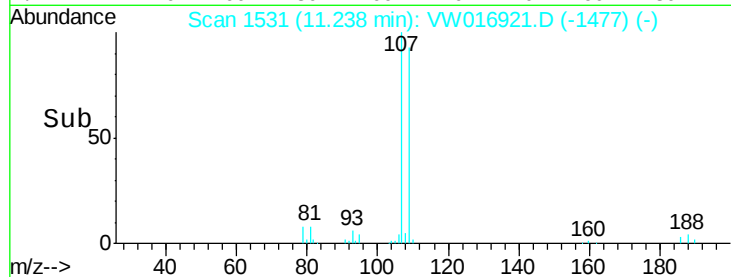
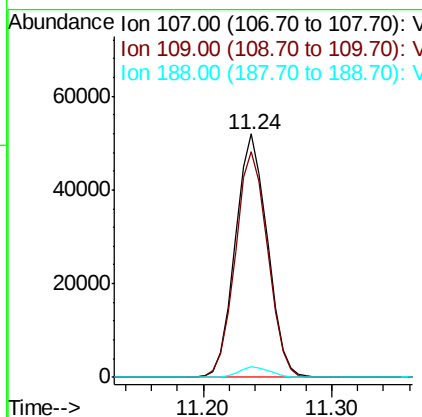
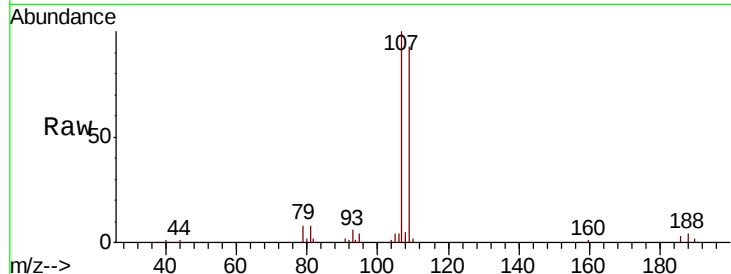




#51
1,2-Dibromoethane
Concen: 20.993 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.00 min
Lab File: VW016921.D
Acq: 15 Oct 2020 18:53

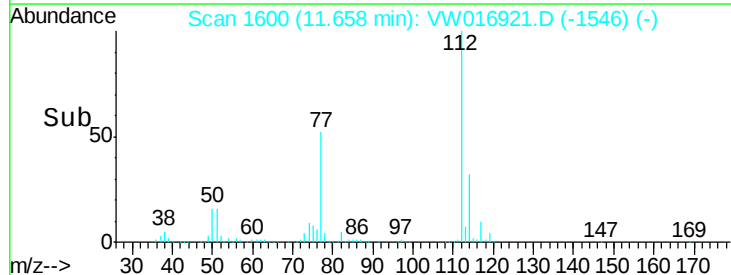
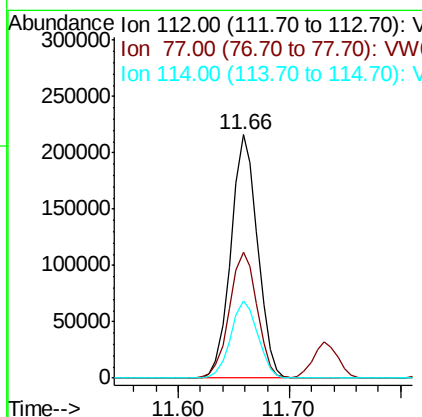
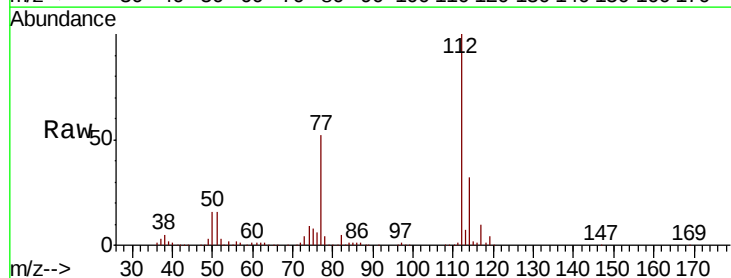
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

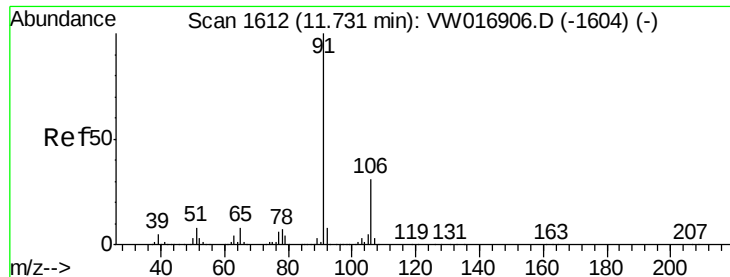
Tot Ion:107 Resp: 89775
Ion Ratio Lower Upper
107 100
109 92.5 68.4 127.0
188 4.3 3.4 5.0



#52
Chlorobenzene
Concen: 20.256 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW016921.D
Acq: 15 Oct 2020 18:53

Tgt Ion:112 Resp: 357021
Ion Ratio Lower Upper
112 100
77 51.6 44.0 66.0
114 31.5 22.3 41.3

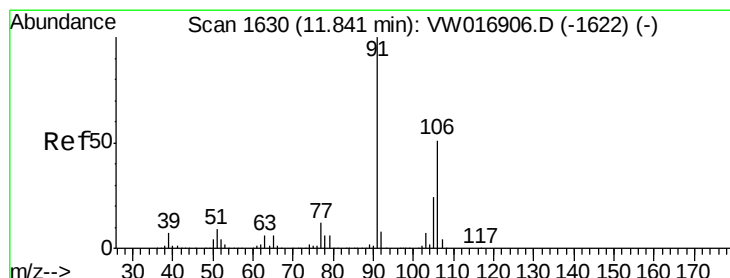
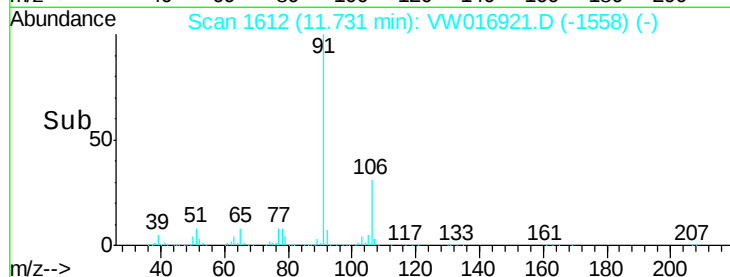
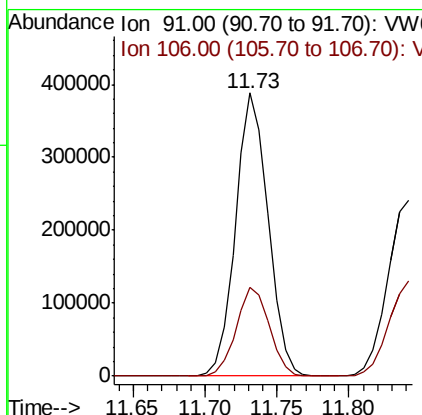
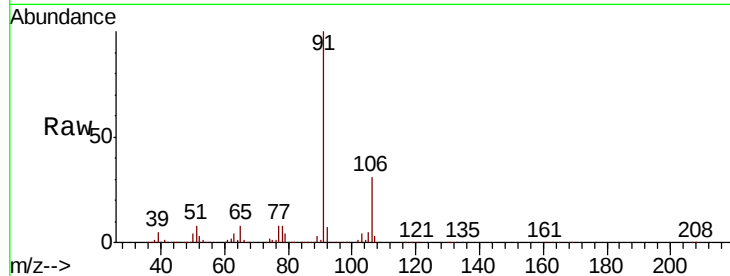




#53
Ethylbenzene
Concen: 20.672 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016921.D
Acq: 15 Oct 2020 18:53

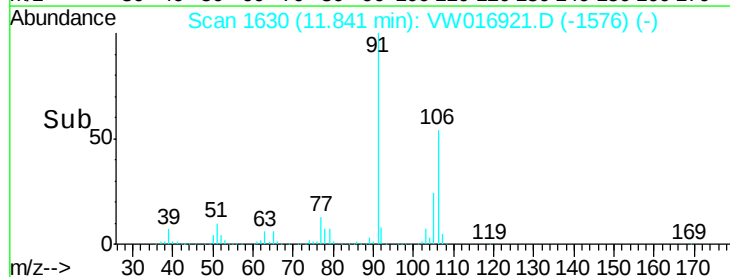
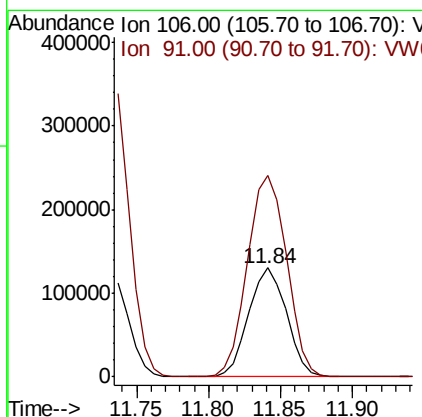
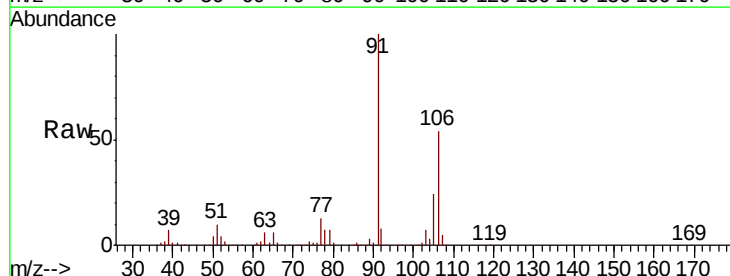
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

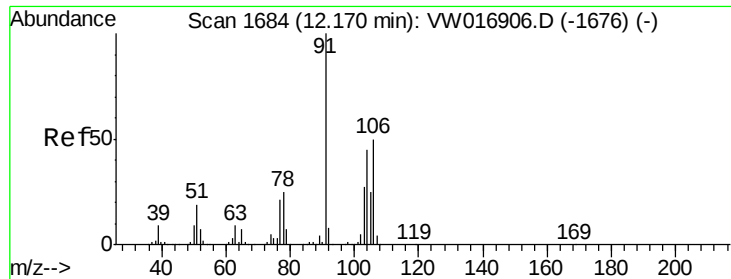
Tot Ion: 91 Resp: 609029
Ion Ratio Lower Upper
91 100
106 31.4 22.8 42.4



#54
m,p-Xylene
Concen: 20.683 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW016921.D
Acq: 15 Oct 2020 18:53

Tgt Ion: 106 Resp: 236991
Ion Ratio Lower Upper
106 100
91 185.0 135.6 251.8





#55

o-xylene

Concen: 20.371 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

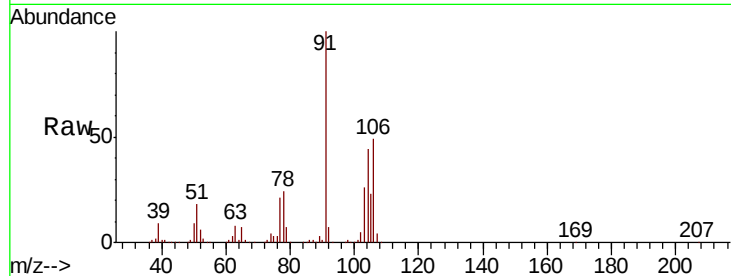
VSTD02512

Tot Ion:106 Resp: 223011

Ion Ratio Lower Upper

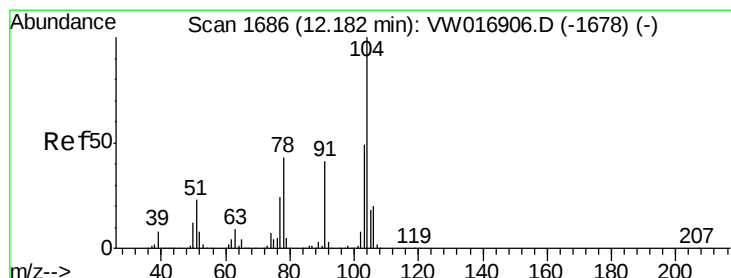
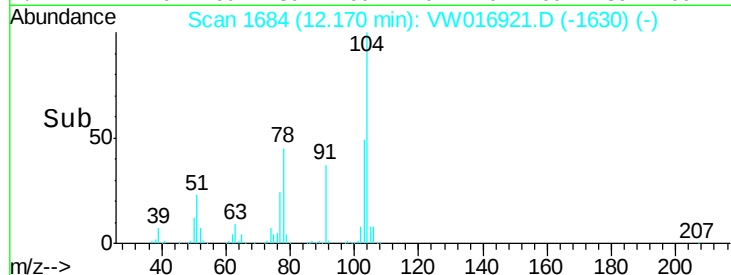
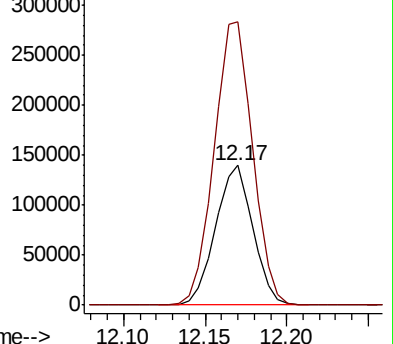
106 100

91 203.1 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 21.392 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW016921.D

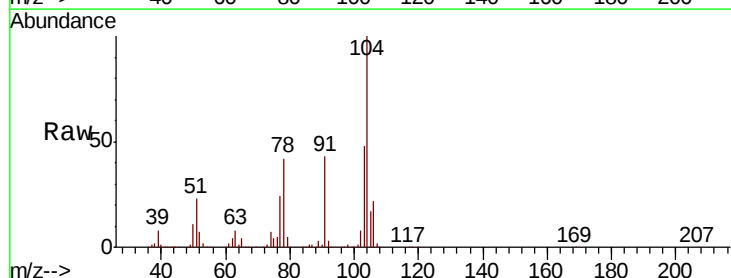
Acq: 15 Oct 2020 18:53

Tgt Ion:104 Resp: 386446

Ion Ratio Lower Upper

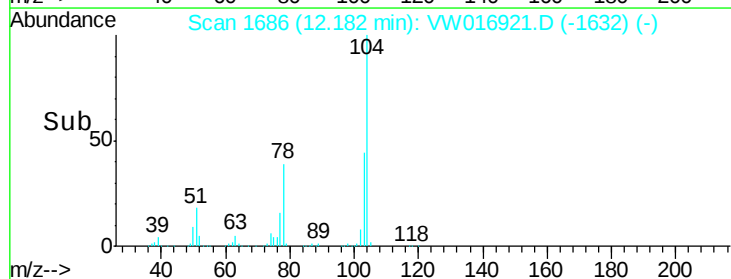
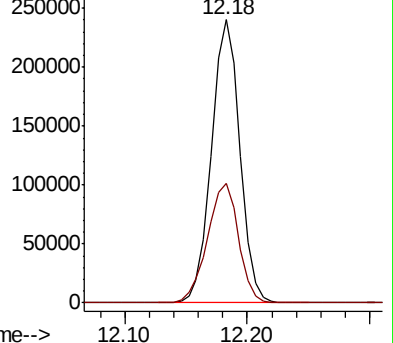
104 100

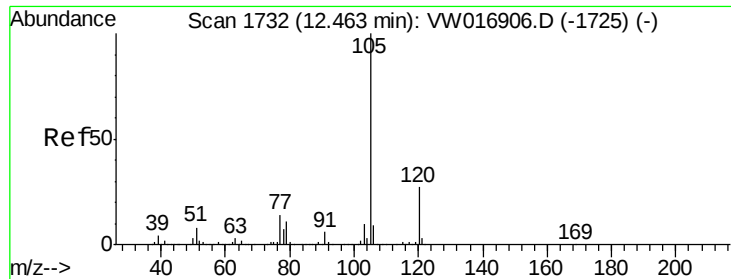
78 42.1 30.7 57.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 20.790 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

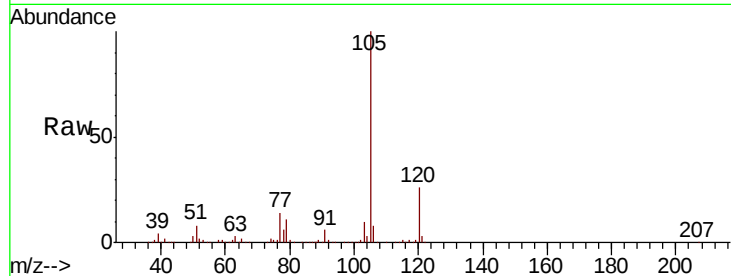
Tot Ion:105 Resp: 623254

Ion Ratio Lower Upper

105 100

120 26.6 21.5 32.3

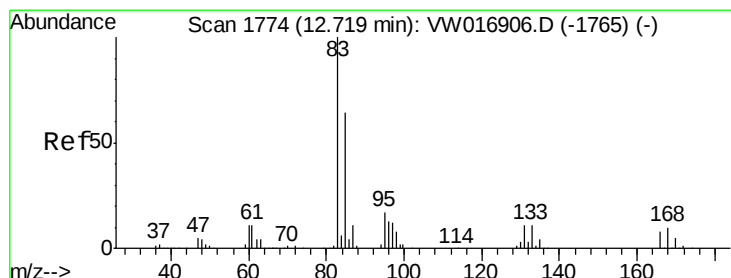
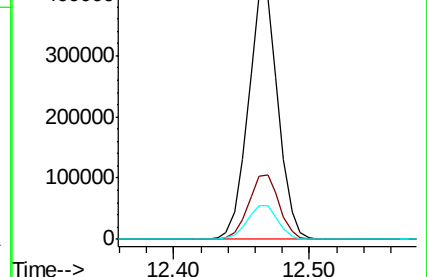
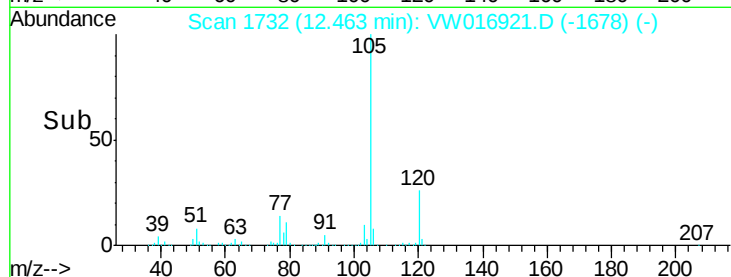
77 14.2 11.4 17.2



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: 21.394 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

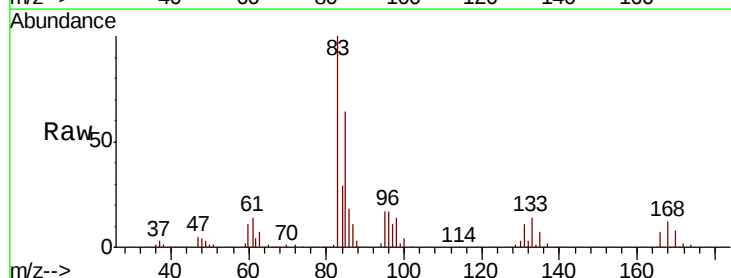
Tgt Ion: 83 Resp: 102889

Ion Ratio Lower Upper

83 100

85 64.0 43.3 80.5

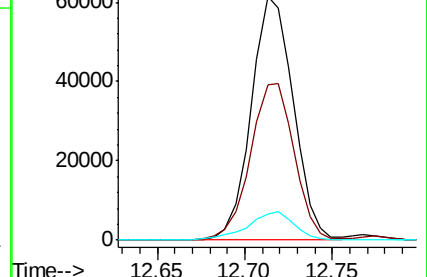
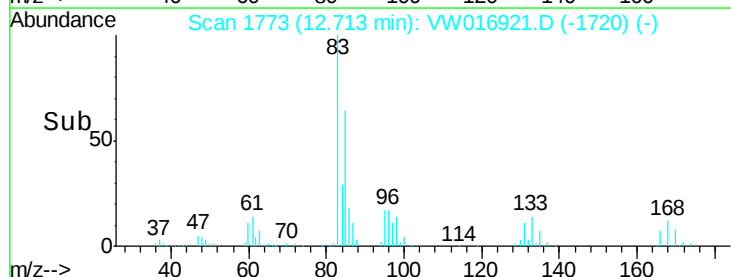
131 10.7 9.0 13.4

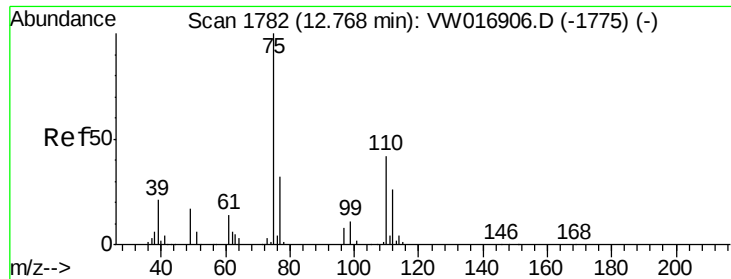


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 21.404 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

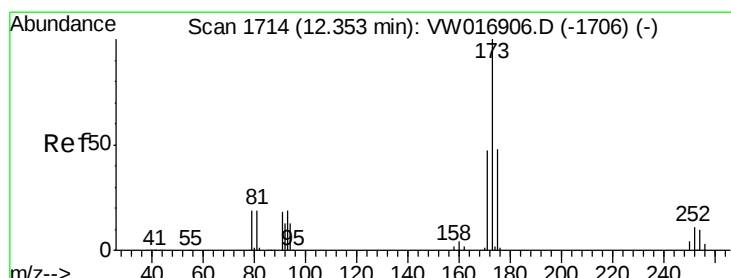
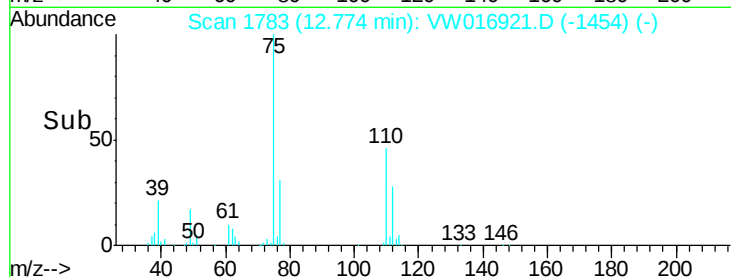
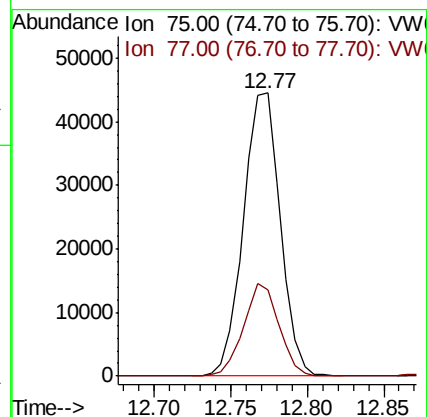
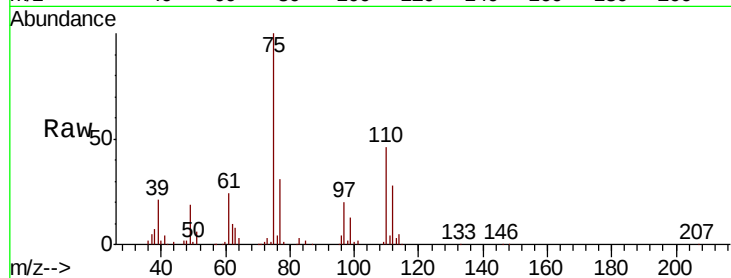
VSTD02512

Tot Ion: 75 Resp: 74570

Ion Ratio Lower Upper

75 100

77 31.5 26.2 39.2



#62

Bromoform

Concen: 20.651 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

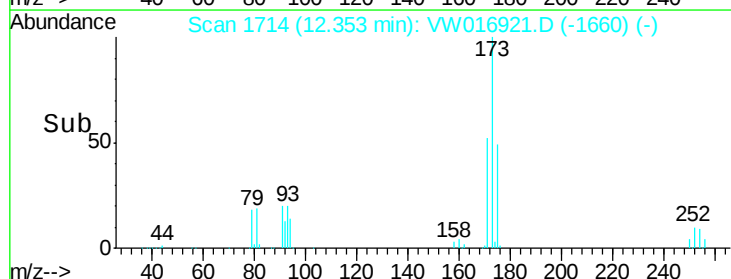
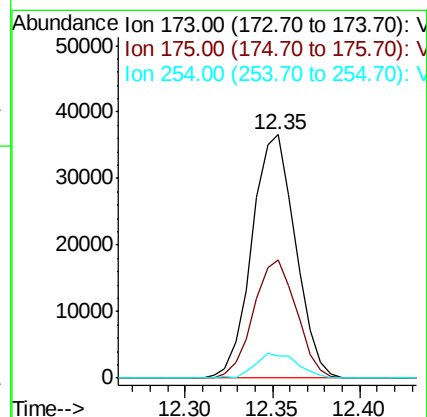
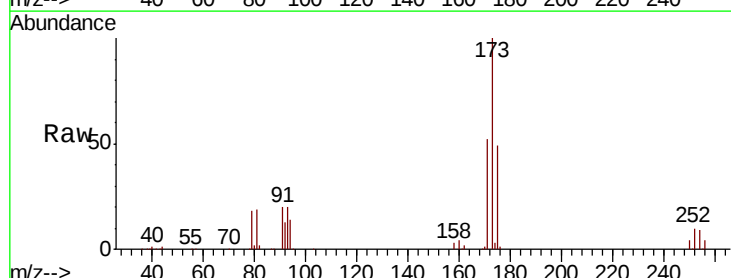
Tgt Ion: 173 Resp: 63359

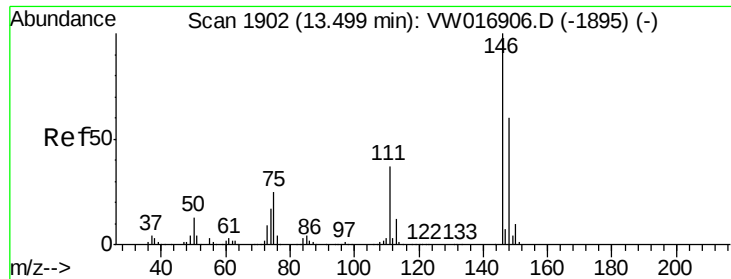
Ion Ratio Lower Upper

173 100

175 47.8 39.9 59.9

254 9.8 8.7 13.1

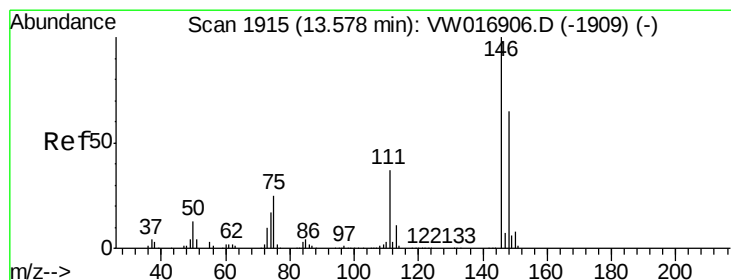
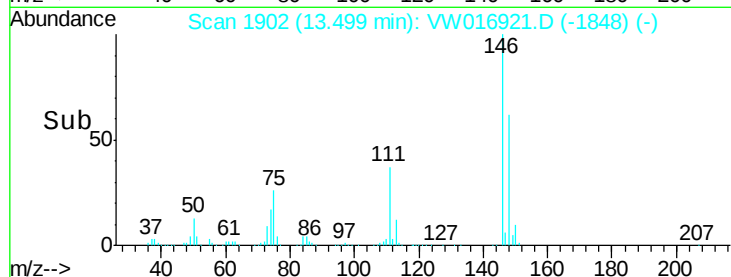
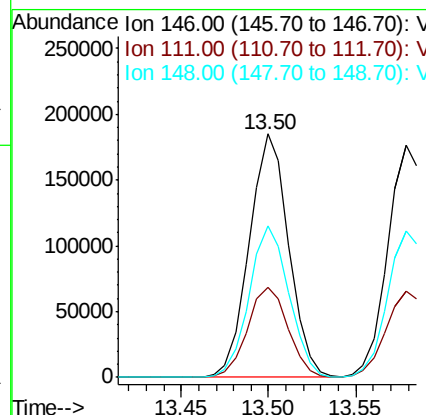
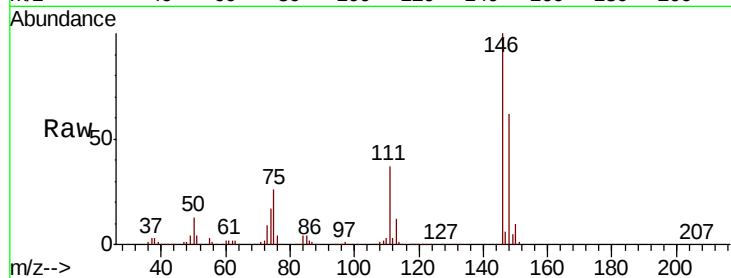




#63
 1,3-Dichlorobenzene
 Concen: 20.825 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

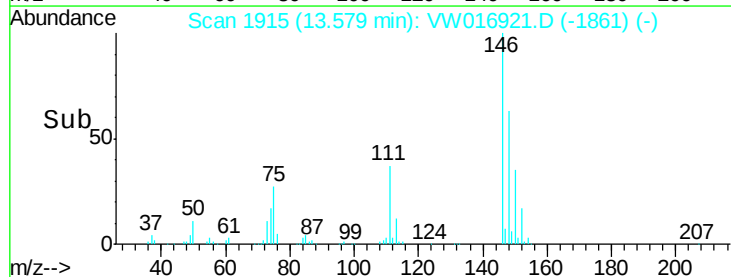
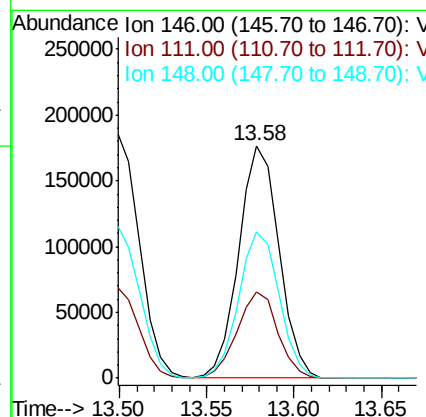
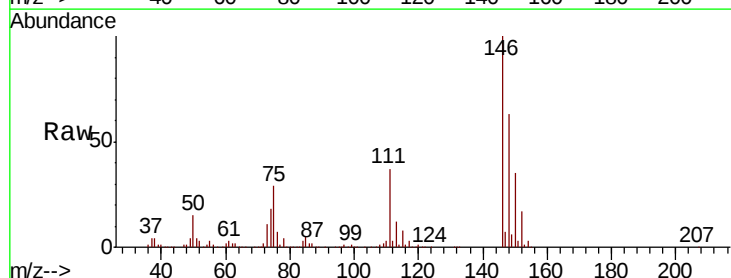
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

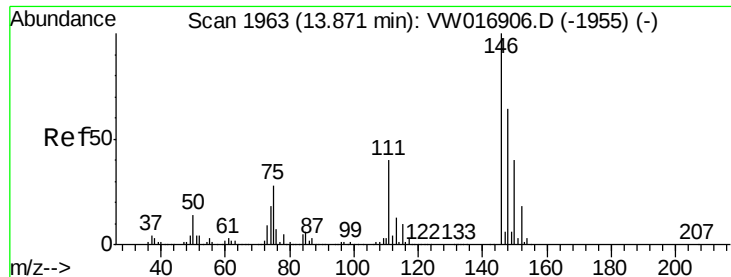
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	26.9	49.9
148	62.2	45.7	84.9



#64
 1,4-Dichlorobenzene
 Concen: 20.354 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	26.0	48.4
148	62.7	43.9	81.5

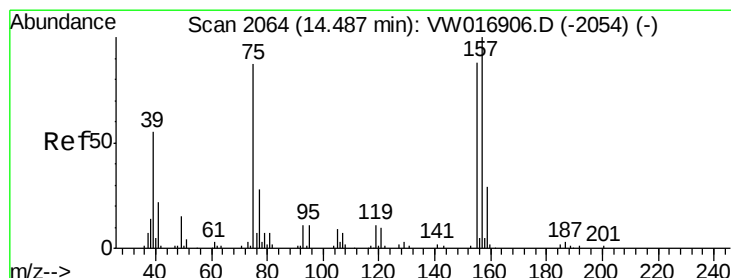
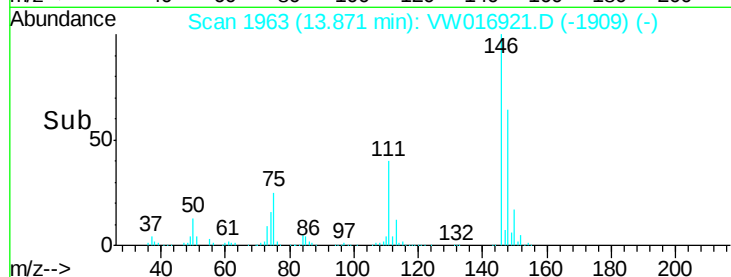
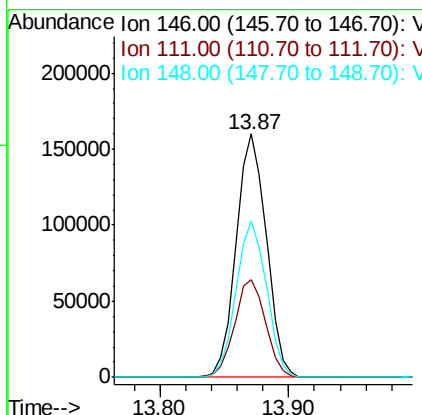
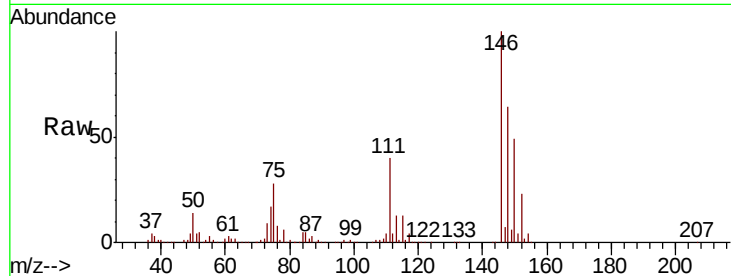




#65
 1,2-Dichlorobenzene
 Concen: 20.910 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

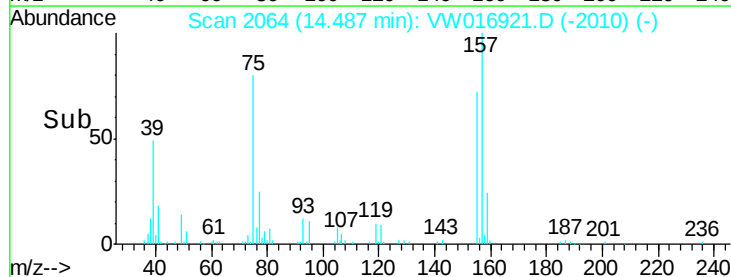
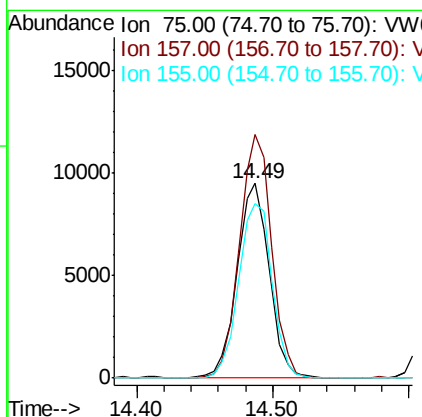
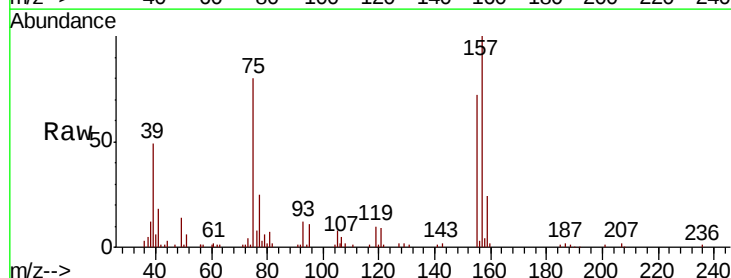
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

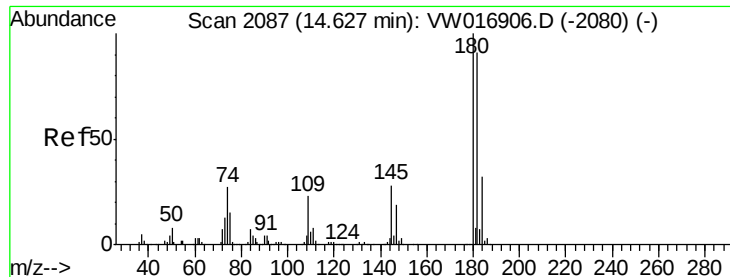
Tot Ion:146 Resp: 259870
 Ion Ratio Lower Upper
 146 100
 111 40.3 32.1 48.1
 148 64.5 51.8 77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 20.747 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

Tgt Ion: 75 Resp: 15640
 Ion Ratio Lower Upper
 75 100
 157 125.1 100.5 150.7
 155 90.0 74.7 112.1

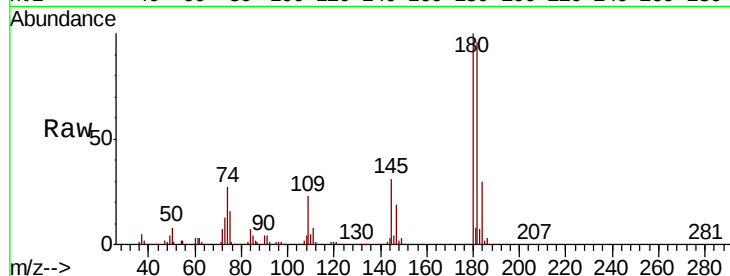




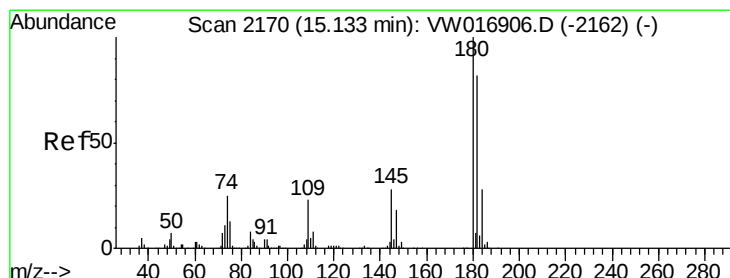
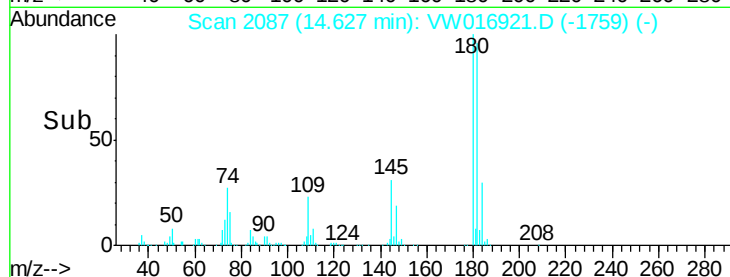
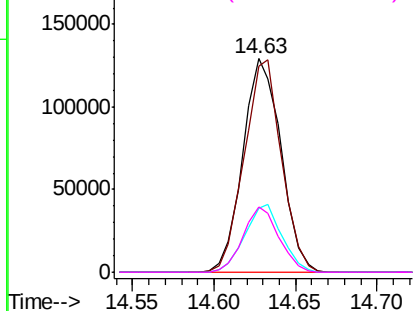
#67
 1,3,5-Trichlorobenzene
 Concen: 20.374 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

Tot Ion:180	Resp:	210205
Ion Ratio	Lower	Upper
180	100	
182	97.3	79.0 118.6
184	30.7	24.9 37.3
145	28.8	23.0 34.4

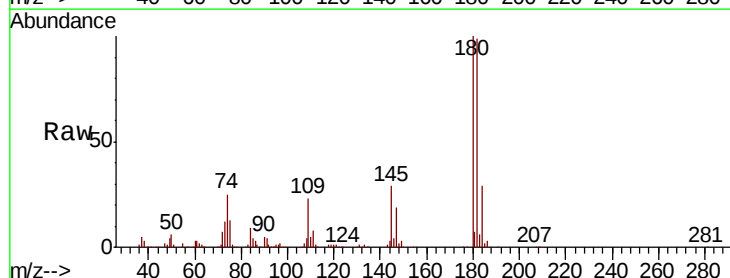


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

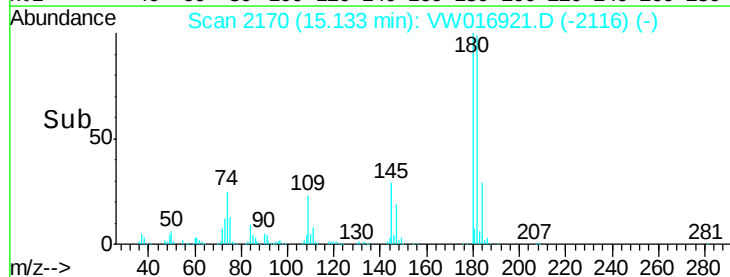
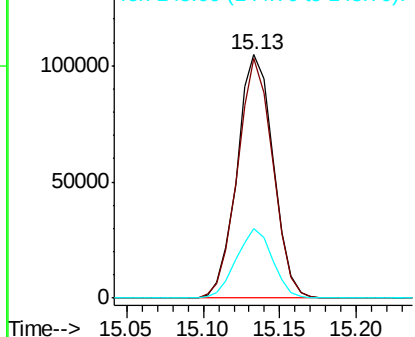


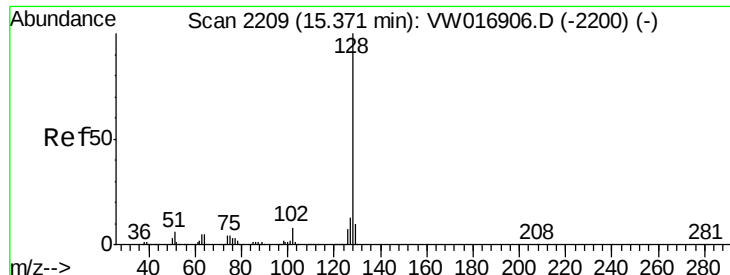
#68
 1,2,4-trichlorobenzene
 Concen: 20.330 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016921.D
 Acq: 15 Oct 2020 18:53

Tgt Ion:180	Resp:	172287
Ion Ratio	Lower	Upper
180	100	
182	95.9	74.2 111.2
145	28.7	23.4 35.0



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





#69

Naphthalene

Concen: 21.788 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

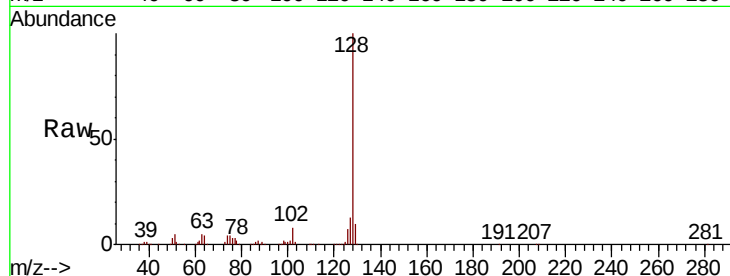
Tot Ion:128 Resp: 305746

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

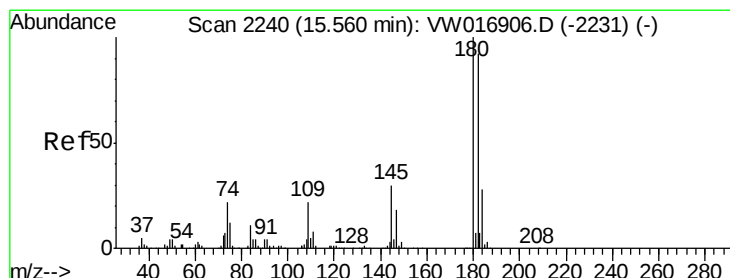
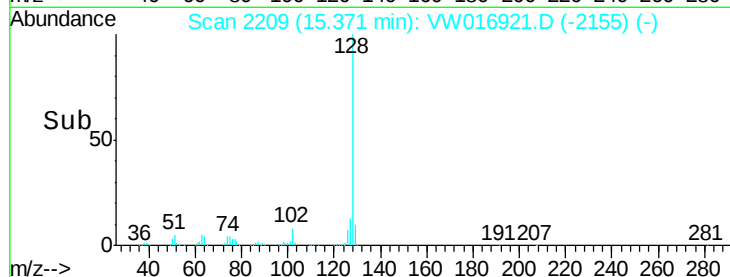
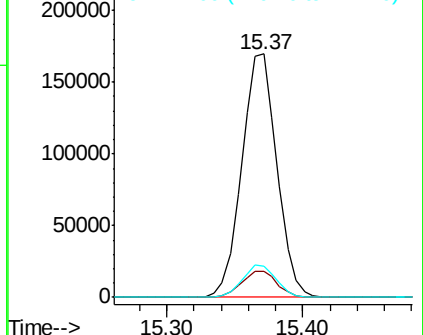
127 12.9 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 21.151 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW016921.D

Acq: 15 Oct 2020 18:53

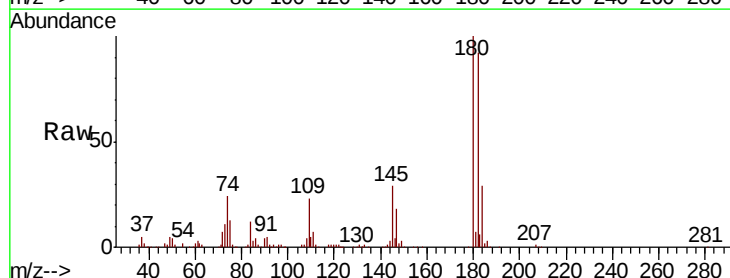
Tgt Ion:180 Resp: 154023

Ion Ratio Lower Upper

180 100

182 91.4 74.1 111.1

145 29.8 24.8 37.2



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

