

Data File : VW014867.D
Acq On : 04 Feb 2020 19:16
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

Quant Time: Feb 05 03:45:41 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM020320S.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 05 03:41:59 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1138953	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1024244	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	478755	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	410586	23.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.08%
7) Chloroethane-d5	2.89	69	323184	18.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.80%
10) 1,1-Dichloroethene-d2	4.03	63	766690	20.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.92%
20) 2-Butanone-d5	7.07	46	315314	47.03	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.06%
24) Chloroform-d	7.65	84	725722	20.01	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	80.04%
26) 1,2-Dichloroethane-d4	8.30	65	414393	20.33	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	81.32%
29) Benzene-d6	8.27	84	1509432	20.91	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	83.64%
33) 1,2-Dichloropropane-d6	9.27	67	491942	20.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	83.16%
37) Toluene-d8	10.32	98	1365902	21.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	86.68%
38) trans-1,3-Dichloropropene-	10.57	79	206275	22.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	88.08%
39) 2-Hexanone-d5	10.92	63	250258	54.02	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.04%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	419552	22.75	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.00%
61) 1,2-Dichlorobenzene-d4	13.85	152	447768	22.32	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.28%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	260461	18.159	ug/L	95
3) Chloromethane	2.21	50	363178	18.471	ug/L	99
5) Vinyl chloride	2.37	62	471391	23.851	ug/L	98
6) Bromomethane	2.78	94	239403	20.699	ug/L	98
8) Chloroethane	2.92	64	255903	19.942	ug/L	97
9) Trichlorofluoromethane	3.26	101	170254	14.796	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	361739	20.511	ug/L	99
12) 1,1-Dichloroethene	4.04	96	358485	21.552	ug/L	100
13) Acetone	4.12	43	225605	31.114	ug/L	97
14) Carbon disulfide	4.38	76	1034531	20.492	ug/L	100
15) Methyl Acetate	4.67	43	249665	23.007	ug/L	99
16) Methylene chloride	4.92	84	406971	19.351	ug/L	98
17) Methyl tert-butyl Ether	5.42	73	547153	25.920	ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	363730	21.309	ug/L	98
19) 1,1-Dichloroethane	6.21	63	735992	21.234	ug/L	98
21) 2-Butanone	7.16	43	341613	43.903	ug/L	97
22) cis-1,2-Dichloroethene	7.16	96	406184	23.022	ug/L	98

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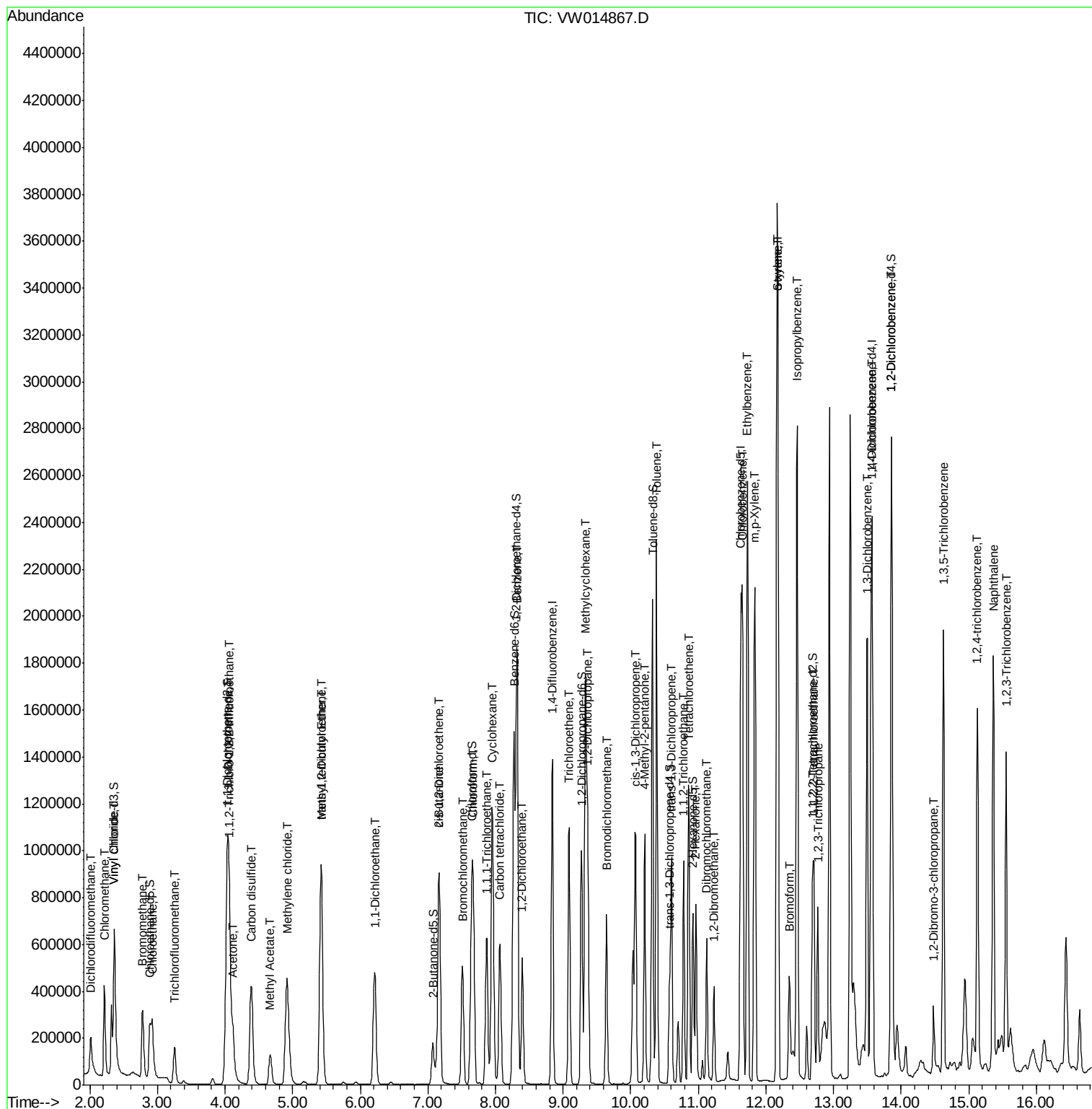
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	167279	22.172	ug/L	93
25) Chloroform	7.67	83	683425	21.598	ug/L	99
27) 1,2-Dichloroethane	8.40	62	481612	21.785	ug/L	96
30) Cyclohexane	7.95	56	718136	23.198	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	509789	21.209	ug/L	99
32) Carbon tetrachloride	8.07	117	455490	20.861	ug/L	100
34) Benzene	8.32	78	1588988	22.155	ug/L	100
35) Trichloroethene	9.09	95	390608	22.053	ug/L	99
36) Methylcyclohexane	9.34	83	706294	22.767	ug/L	96
40) 1,2-Dichloropropane	9.37	63	425205	21.982	ug/L	100
41) Bromodichloromethane	9.64	83	488666	22.047	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	643242	23.890	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	723657	50.951	ug/L	97
44) Toluene	10.38	91	1656299	23.082	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	516447	23.309	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	299857	23.426	ug/L	98
47) Tetrachloroethene	10.86	164	283791	21.477	ug/L	96
49) 2-Hexanone	10.96	43	507747	51.811	ug/L	97
50) Dibromochloromethane	11.13	129	318193	23.123	ug/L	100
51) 1,2-Dibromoethane	11.23	107	289064	24.018	ug/L	99
52) Chlorobenzene	11.65	112	1001403	22.876	ug/L	98
53) Ethylbenzene	11.72	91	1836894	23.626	ug/L	100
54) m,p-Xylene	11.83	106	679794	23.893	ug/L	98
55) o-xylene	12.16	106	651206	24.568	ug/L	96
56) Styrene	12.18	104	1118815	24.788	ug/L	97
57) Isopropylbenzene	12.46	105	1779723	24.829	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	407379	24.245	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	307048	23.870	ug/L	96
62) Bromoform	12.35	173	182868	23.108	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	753789	23.475	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	740251	22.871	ug/L	100
65) 1,2-Dichlorobenzene	13.86	146	701427	23.993	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.48	75	71780	25.156	ug/L	88
67) 1,3,5-Trichlorobenzene	14.63	180	552968	24.304	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	493880	27.784	ug/L	100
69) Naphthalene	15.36	128	1472866	40.839	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	448524	27.304	ug/L	99

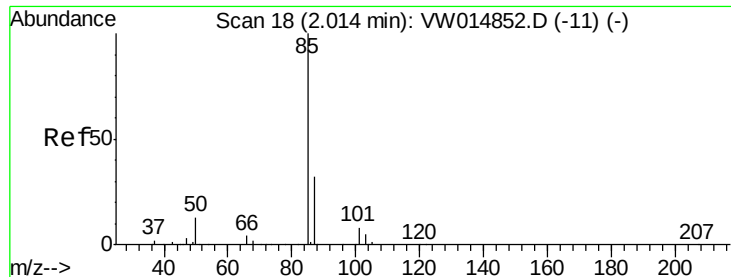
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 18.159 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

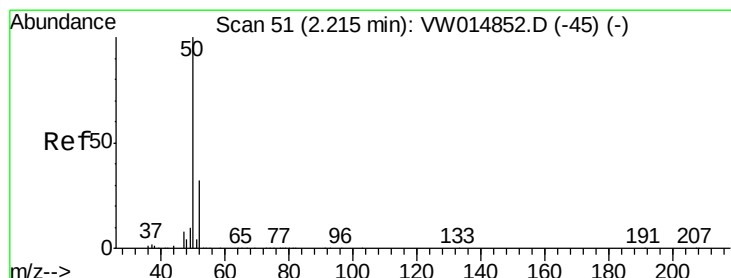
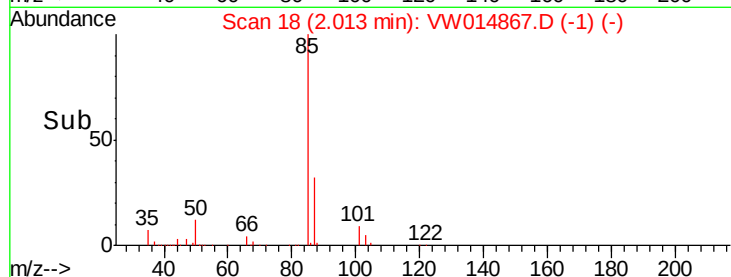
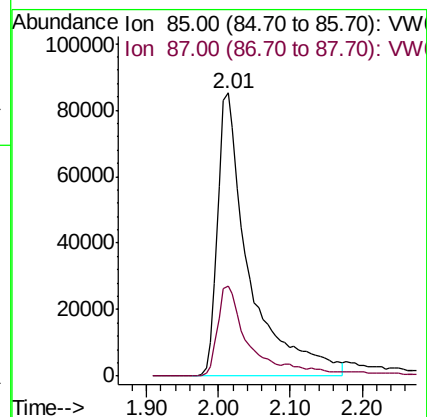
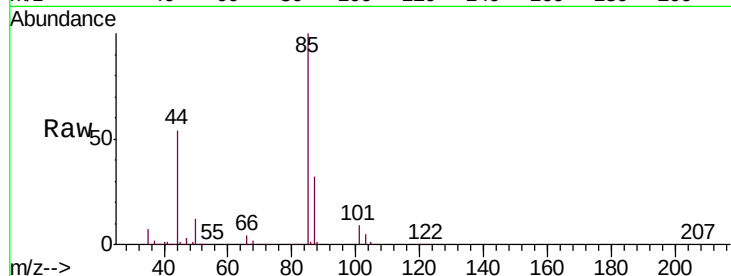
VSTD02512

Tgt Ion: 85 Resp: 260461

Ion Ratio Lower Upper

85 100

87 27.7 21.2 39.4



#3

Chloromethane

Concen: 18.471 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW014867.D

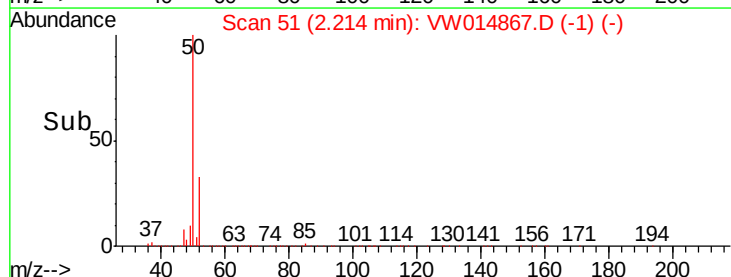
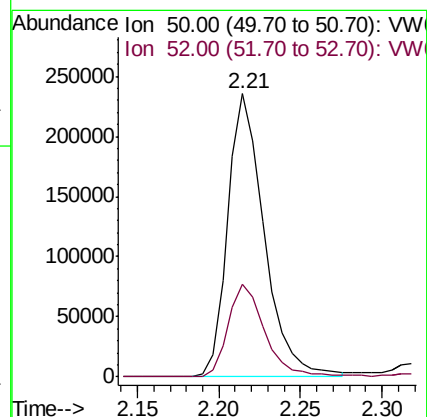
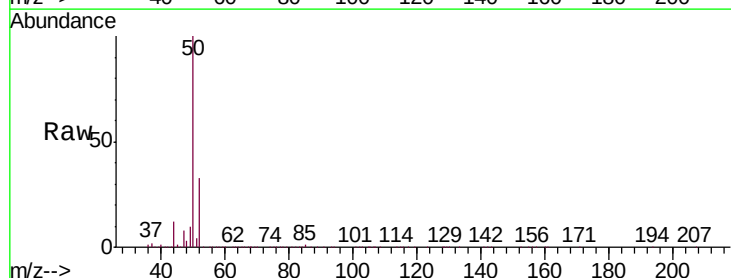
Acq: 04 Feb 2020 19:16

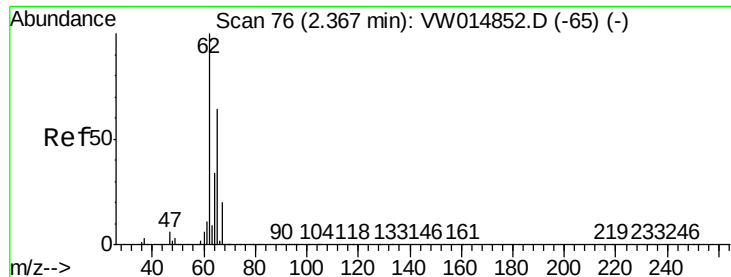
Tgt Ion: 50 Resp: 363178

Ion Ratio Lower Upper

50 100

52 32.9 22.6 42.0





#5

Vinyl chloride

Concen: 23.851 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

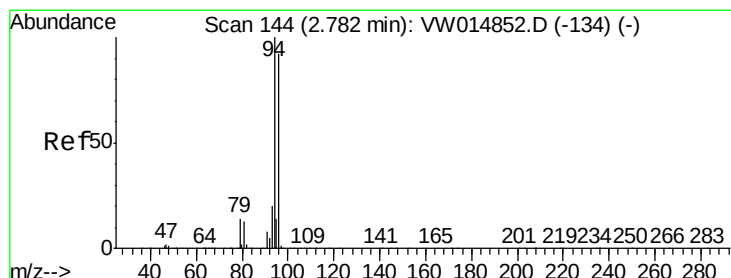
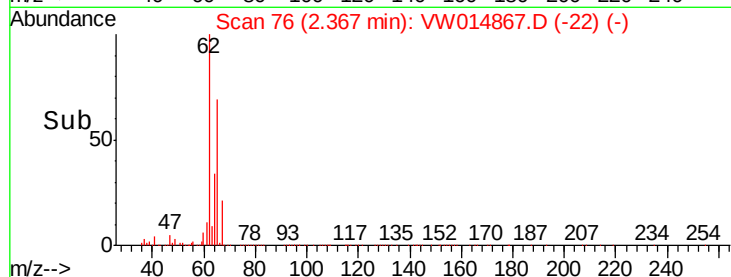
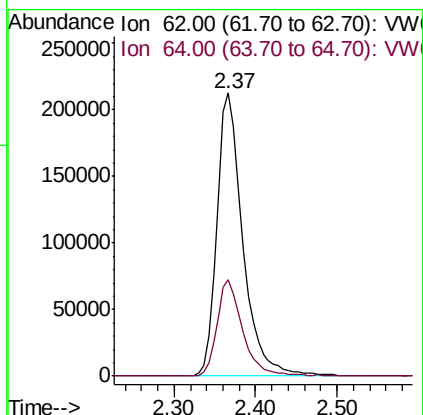
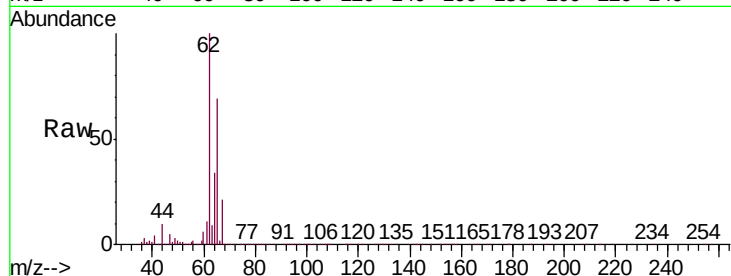
VSTD02512

Tgt Ion: 62 Resp: 471391

Ion Ratio Lower Upper

62 100

64 34.0 23.2 43.0



#6

Bromomethane

Concen: 20.699 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW014867.D

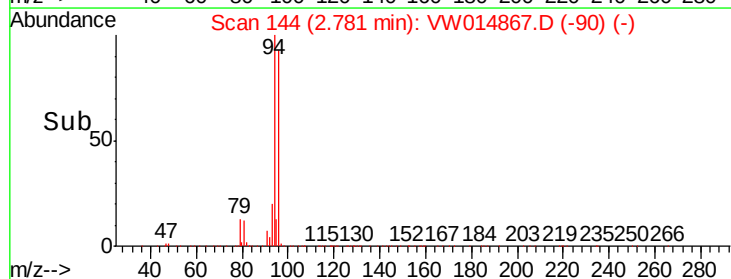
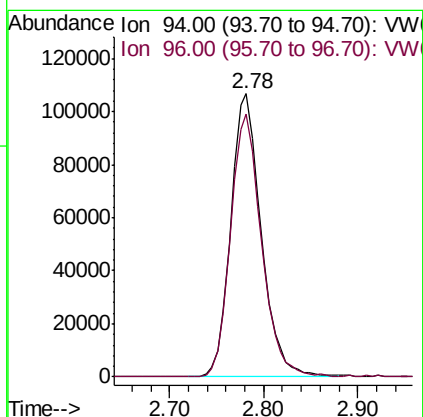
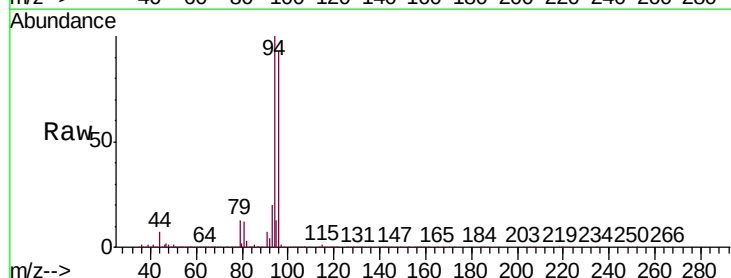
Acq: 04 Feb 2020 19:16

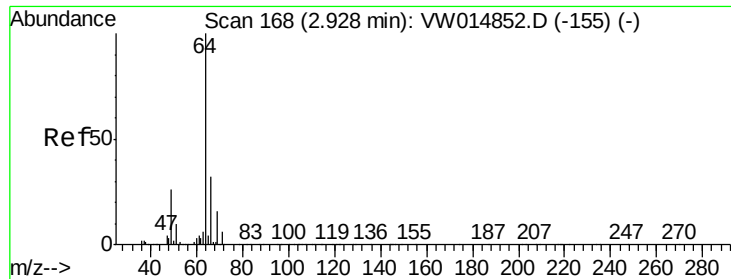
Tgt Ion: 94 Resp: 239403

Ion Ratio Lower Upper

94 100

96 93.2 9.5 179.9





#8

Chloroethane

Concen: 19.942 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

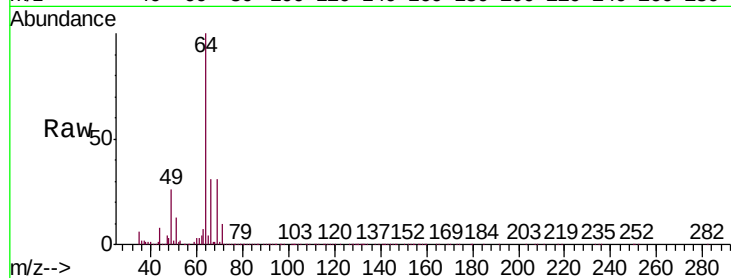
VSTD02512

Tgt Ion: 64 Resp: 255903

Ion Ratio Lower Upper

64 100

66 30.5 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW

2.92

100000

80000

60000

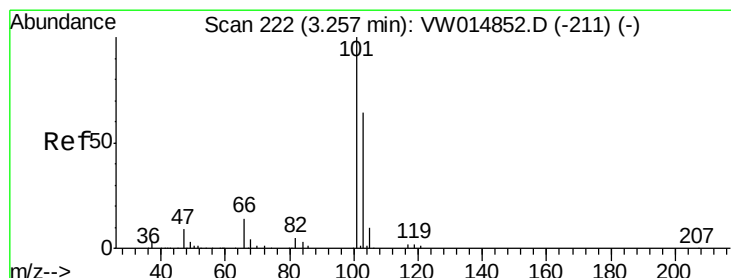
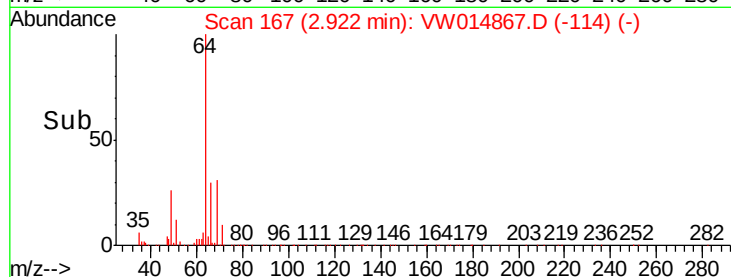
40000

20000

0

Time-->

2.80 2.90 3.00



#9

Trichlorofluoromethane

Concen: 14.796 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW014867.D

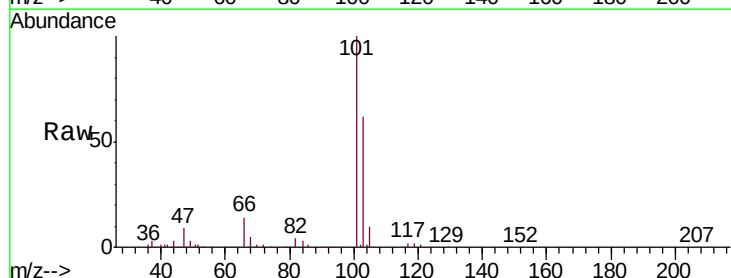
Acq: 04 Feb 2020 19:16

Tgt Ion: 101 Resp: 170254

Ion Ratio Lower Upper

101 100

103 65.3 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.26

80000

60000

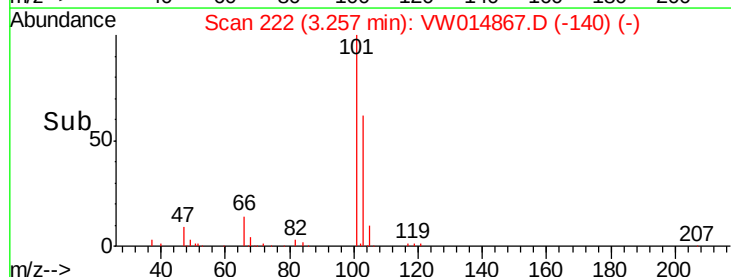
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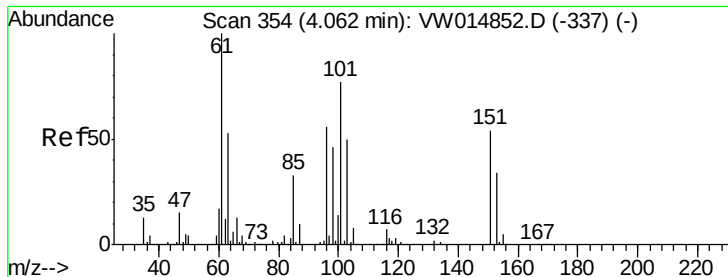
20000

0

Time-->

3.20 3.30





#11

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

Concen: 20.511 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

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ClientSampleId :

VSTD02512

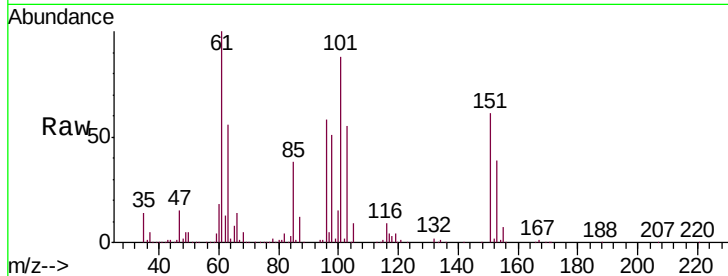
Tgt Ion: 101 Resp: 361739

Ion Ratio Lower Upper

101 100

85 42.8 34.9 52.3

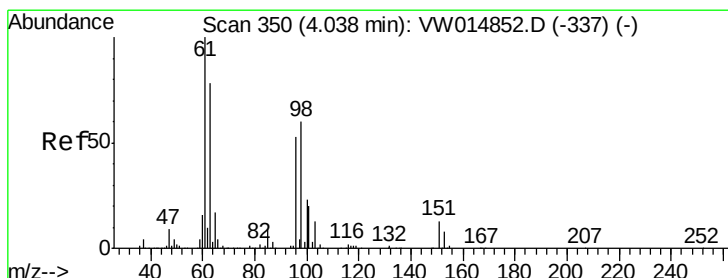
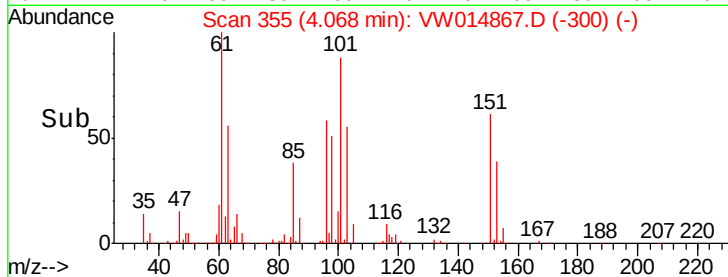
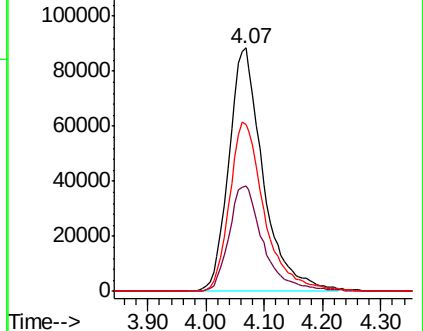
151 70.2 55.2 82.8



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: 21.552 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

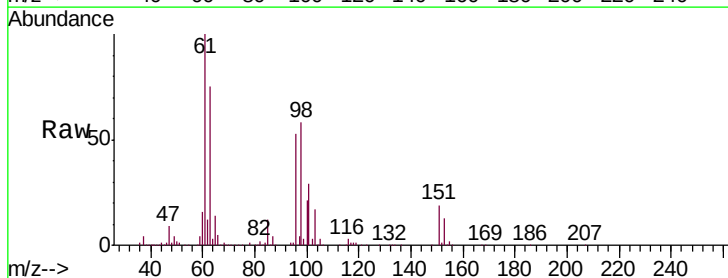
Tgt Ion: 96 Resp: 358485

Ion Ratio Lower Upper

96 100

61 187.7 131.5 244.3

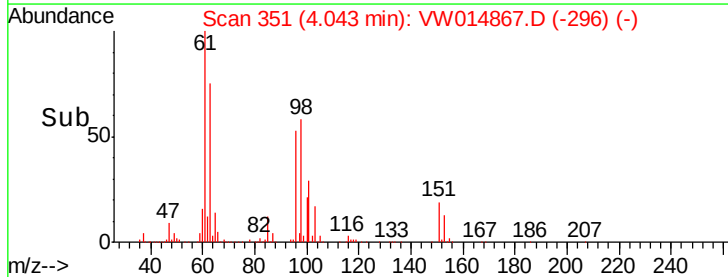
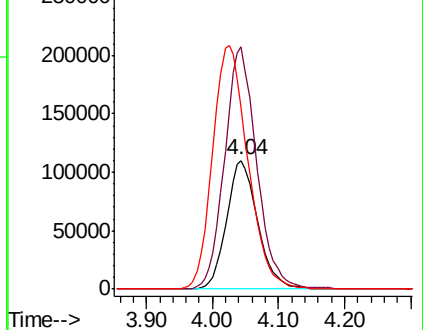
63 141.3 98.8 183.4

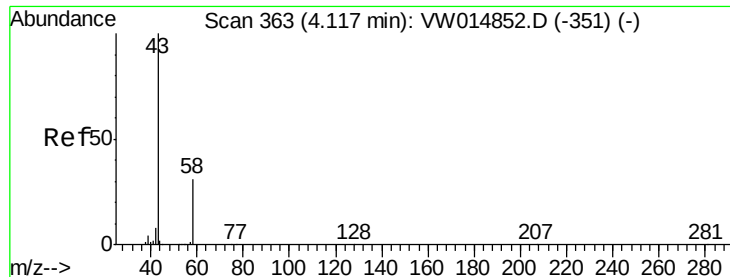


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 31.114 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

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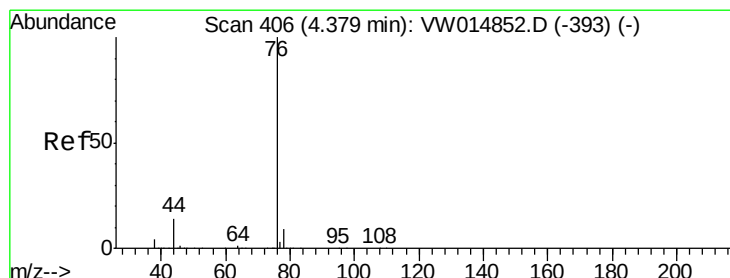
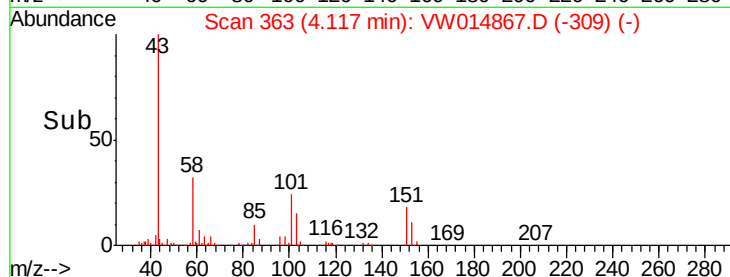
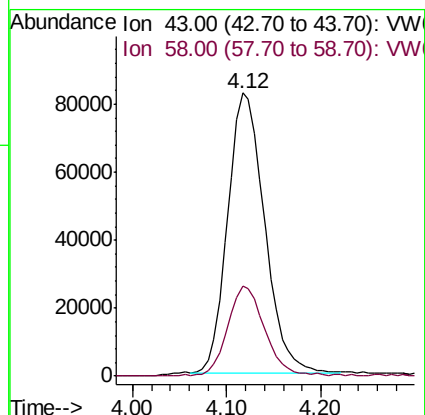
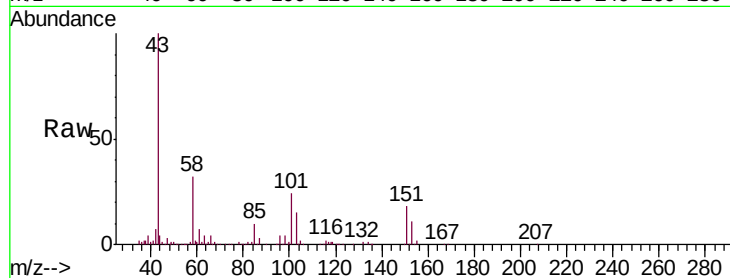
VSTD02512

Tgt Ion: 43 Resp: 225605

Ion Ratio Lower Upper

43 100

58 31.9 0.0 60.2



#14

Carbon disulfide

Concen: 20.492 ug/L

RT: 4.38 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014867.D

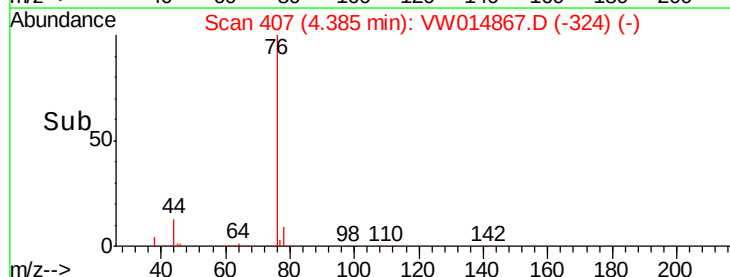
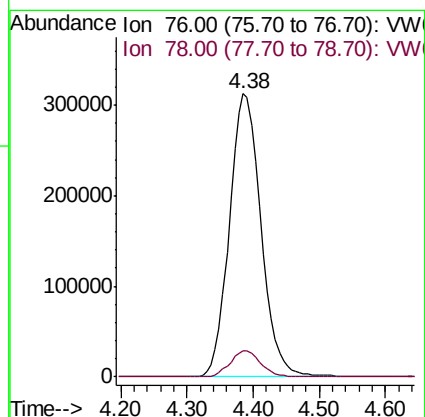
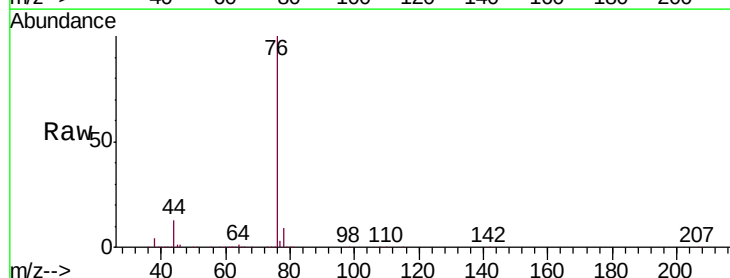
Acq: 04 Feb 2020 19:16

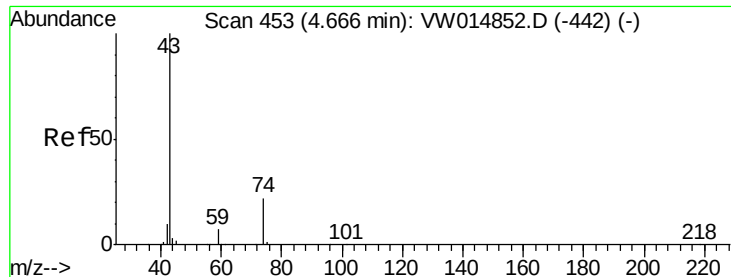
Tgt Ion: 76 Resp: 1034531

Ion Ratio Lower Upper

76 100

78 9.4 7.5 11.3

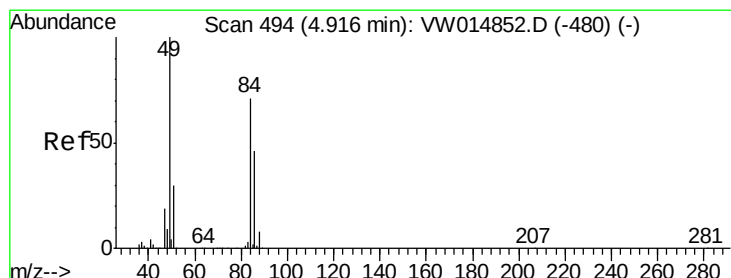
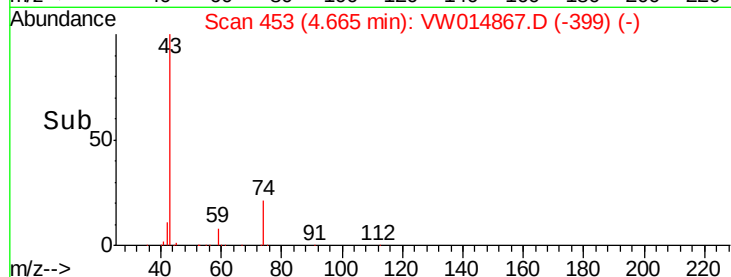
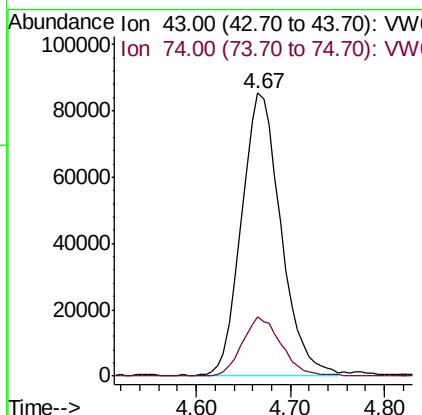
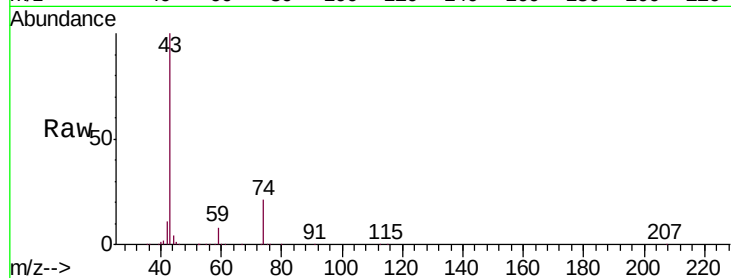




#15
Methyl Acetate
Concen: 23.007 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

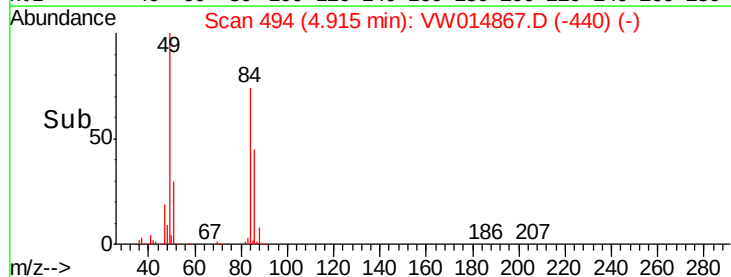
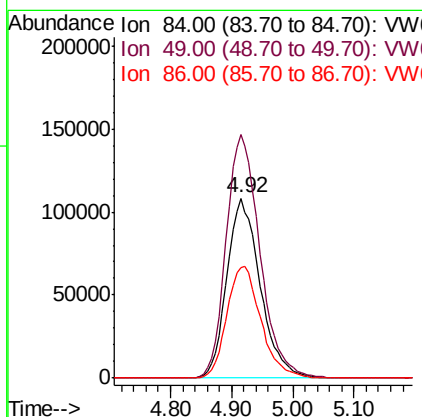
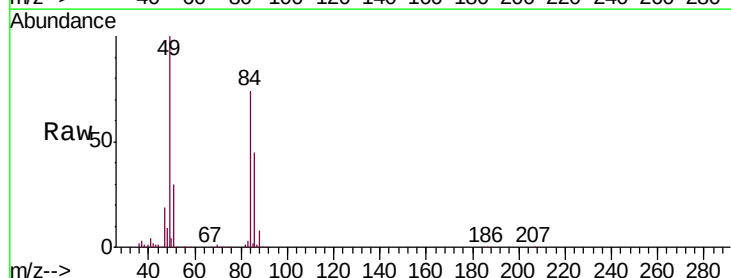
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

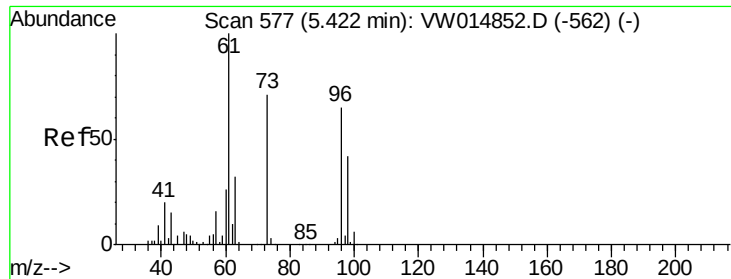
Tgt Ion: 43 Resp: 249665
Ion Ratio Lower Upper
43 100
74 20.8 16.3 24.5



#16
Methylene chloride
Concen: 19.351 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

Tgt Ion: 84 Resp: 406971
Ion Ratio Lower Upper
84 100
49 135.5 96.6 179.4
86 61.6 43.8 81.4

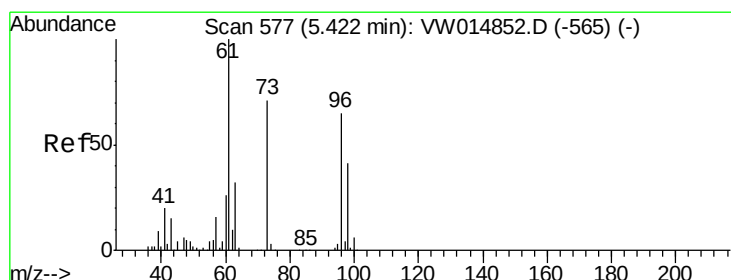
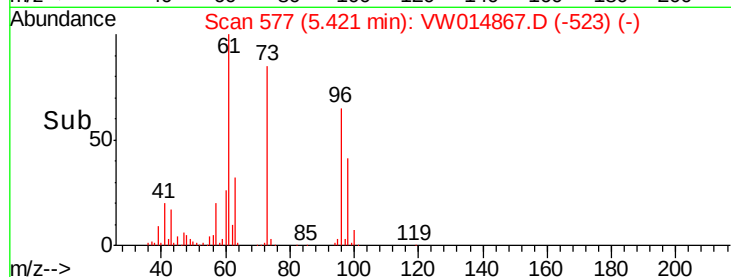
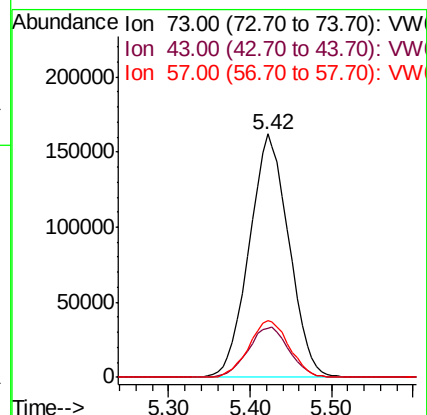
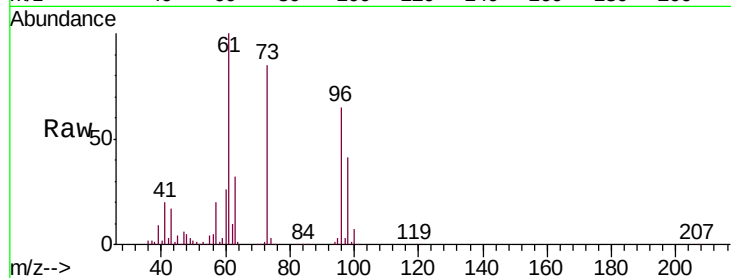




#17
Methyl tert-butyl Ether
Concen: 25.920 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

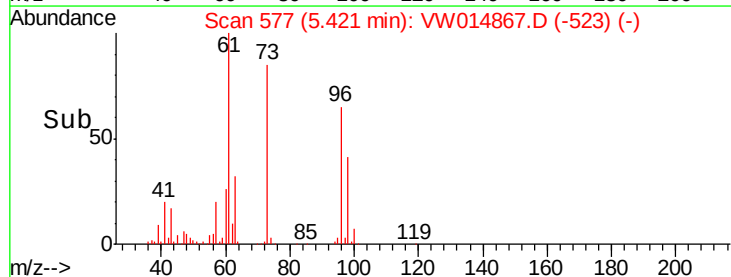
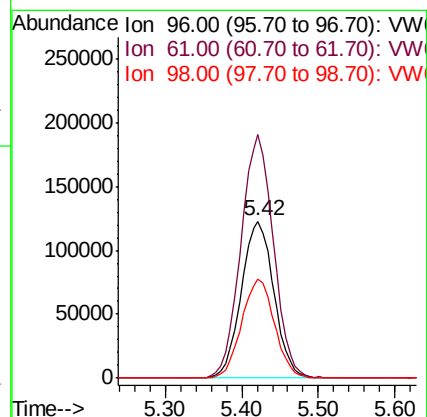
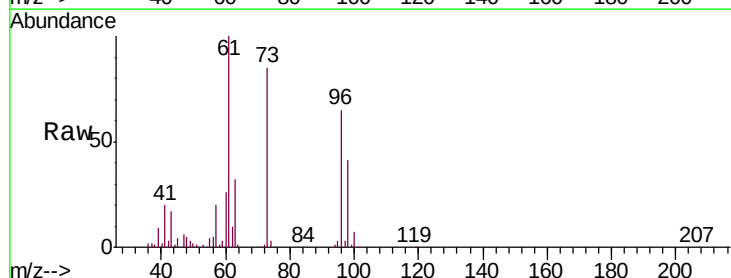
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

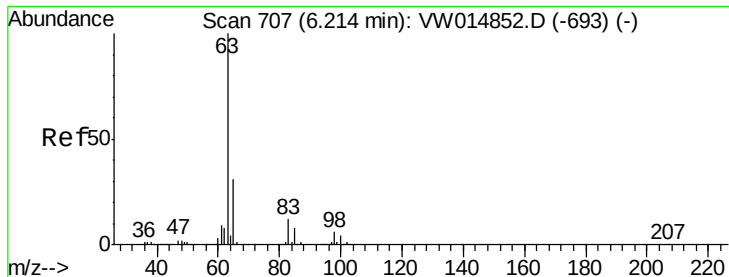
Tgt Ion: 73 Resp: 547153
Ion Ratio Lower Upper
73 100
43 21.1 17.6 26.4
57 23.8 19.8 29.6



#18
trans-1,2-Dichloroethene
Concen: 21.309 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

Tgt Ion: 96 Resp: 363730
Ion Ratio Lower Upper
96 100
61 155.0 106.3 197.3
98 62.9 43.5 80.9





#19

1,1-Dichloroethane

Concen: 21.234 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

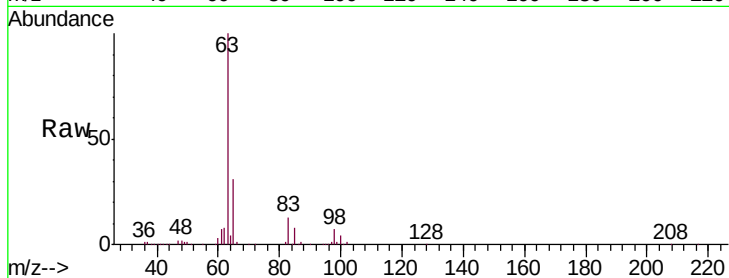
Tgt Ion: 63 Resp: 735992

Ion Ratio Lower Upper

63 100

65 31.2 23.0 42.6

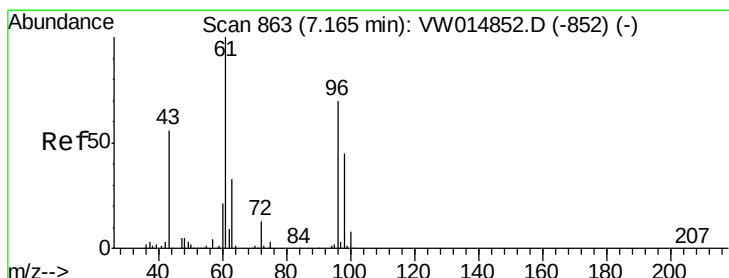
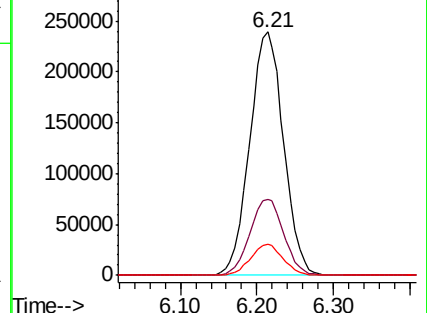
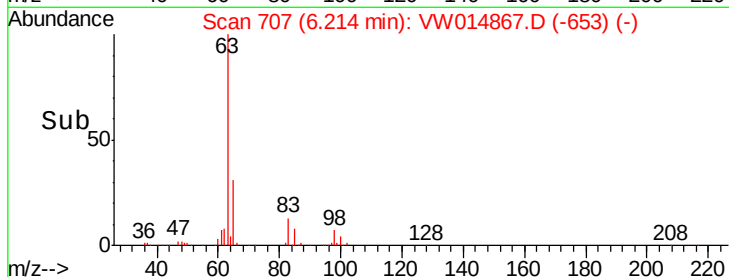
83 12.6 9.0 16.6



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: 43.903 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014867.D

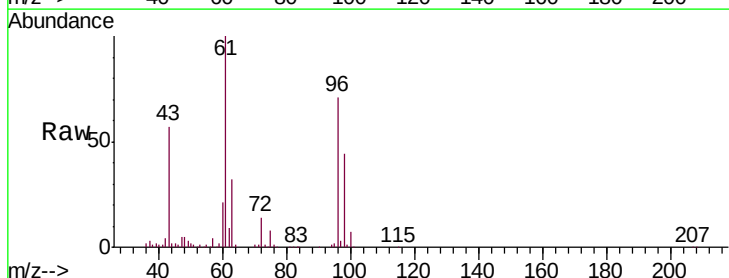
Acq: 04 Feb 2020 19:16

Tgt Ion: 43 Resp: 341613

Ion Ratio Lower Upper

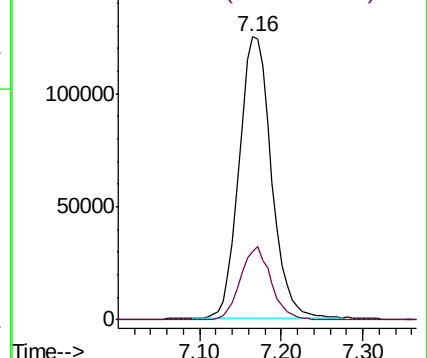
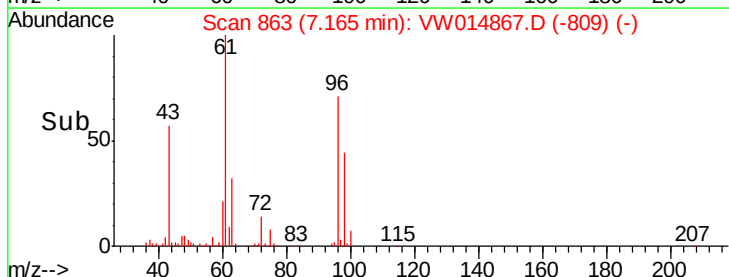
43 100

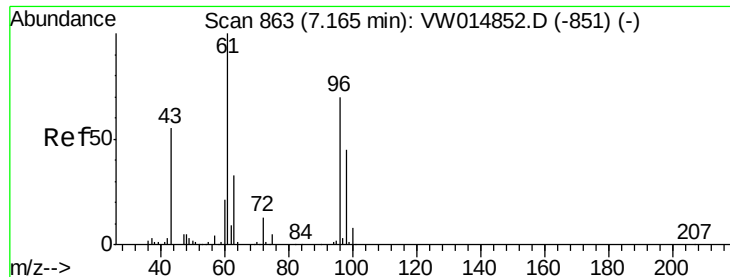
72 24.7 11.7 35.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



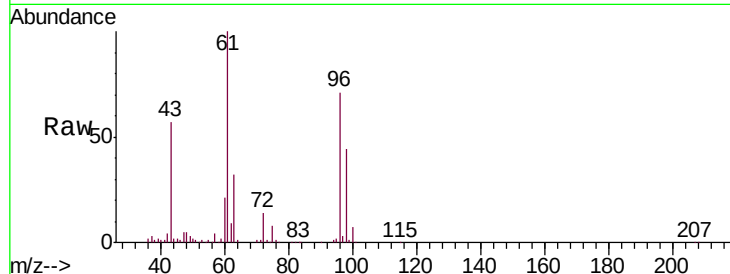


#22

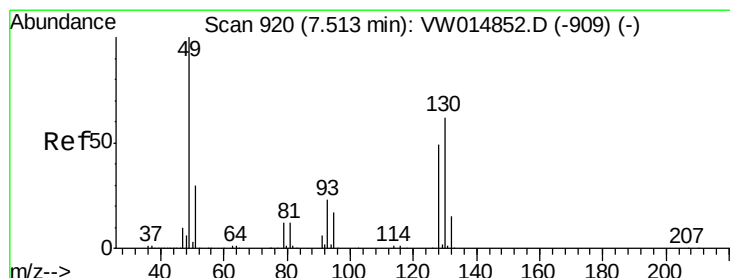
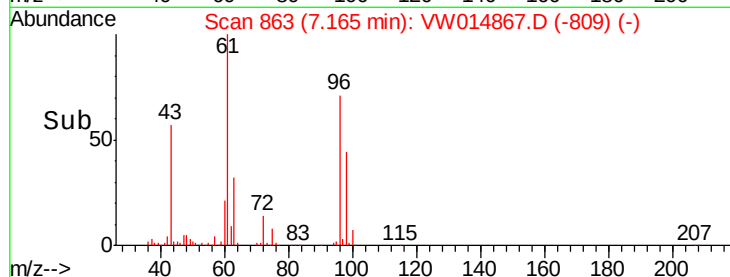
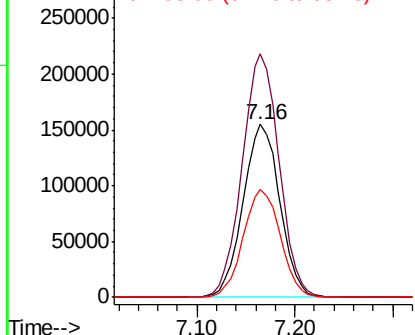
cis-1,2-Dichloroethene
 Concen: 23.022 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

Tgt Ion: 96 Resp: 406184
 Ion Ratio Lower Upper
 96 100
 61 140.7 100.6 186.8
 98 62.6 44.0 81.8



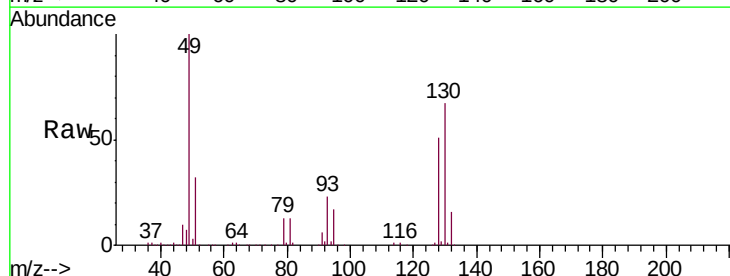
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



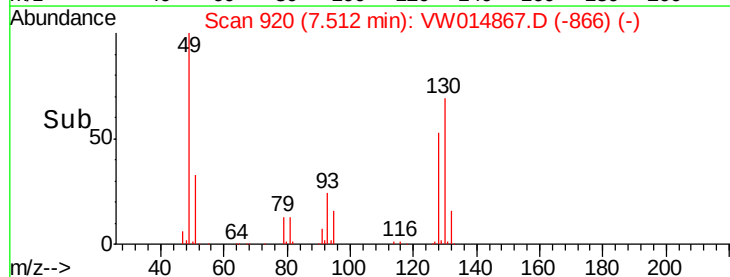
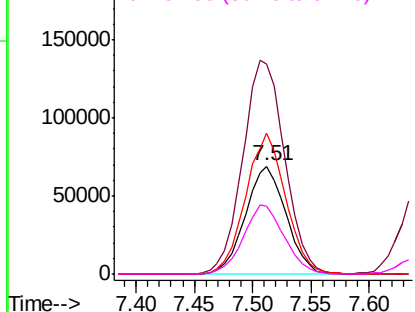
#23

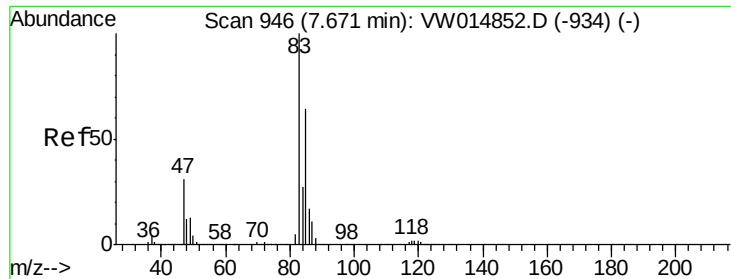
Bromochloromethane
 Concen: 22.172 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

Tgt Ion: 128 Resp: 167279
 Ion Ratio Lower Upper
 128 100
 49 195.3 150.7 279.9
 130 130.5 90.6 168.3
 51 63.0 52.6 79.0



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: 21.598 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

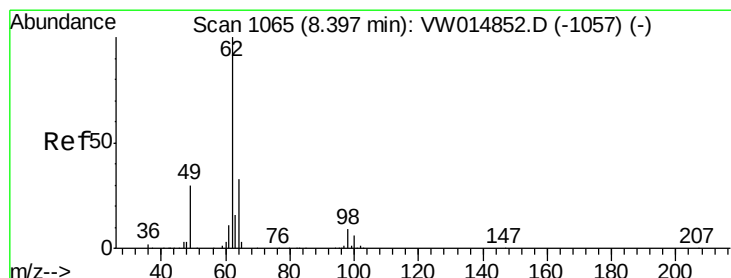
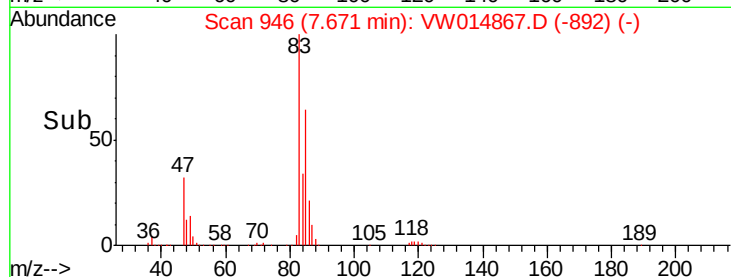
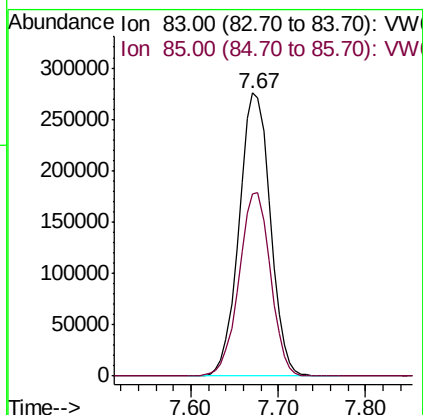
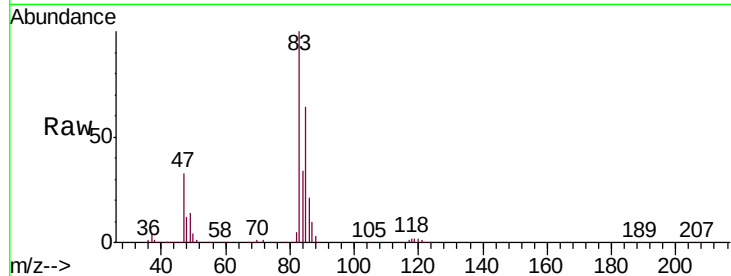
VSTD02512

Tgt Ion: 83 Resp: 683425

Ion Ratio Lower Upper

83 100

85 65.3 45.4 84.2



#27

1,2-Dichloroethane

Concen: 21.785 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014867.D

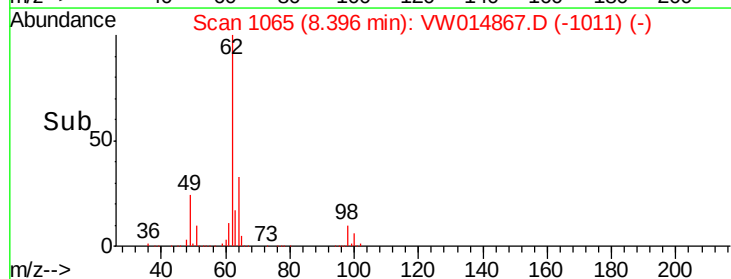
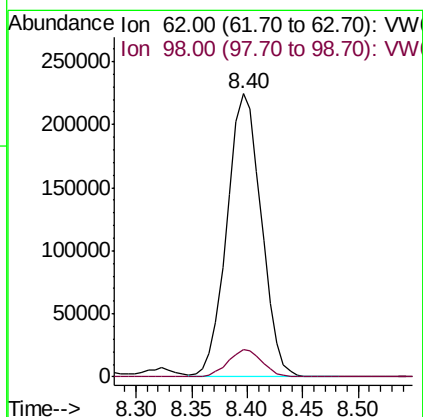
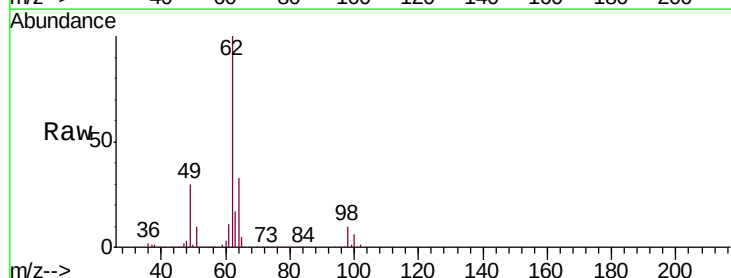
Acq: 04 Feb 2020 19:16

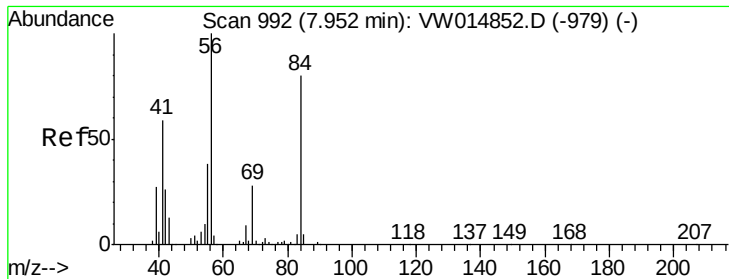
Tgt Ion: 62 Resp: 481612

Ion Ratio Lower Upper

62 100

98 9.8 6.8 10.2

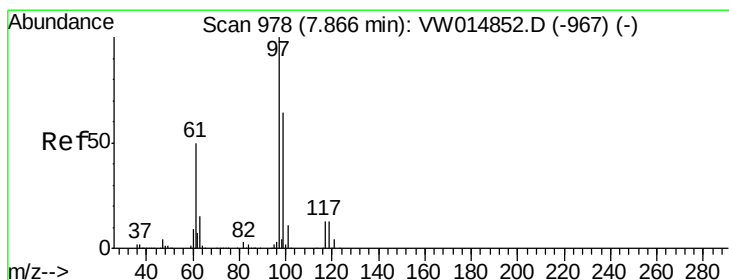
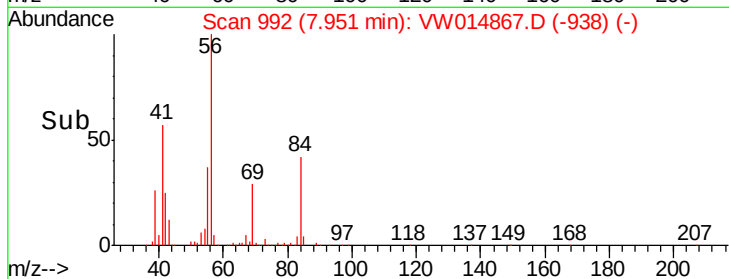
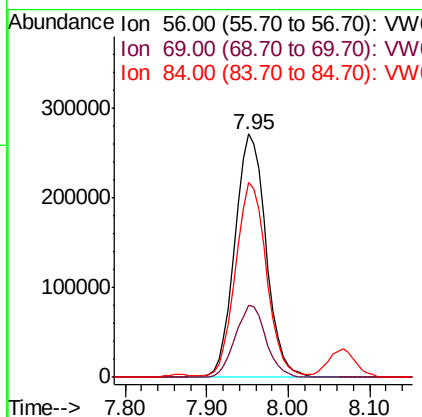
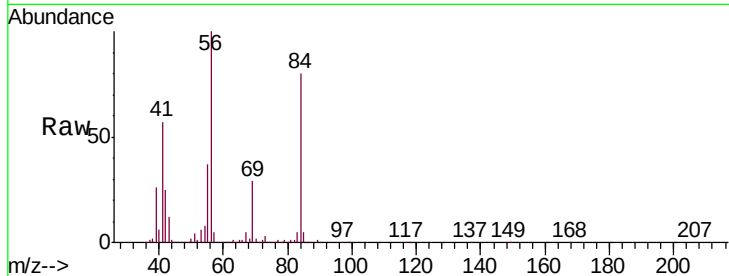




#30
Cyclohexane
Concen: 23.198 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

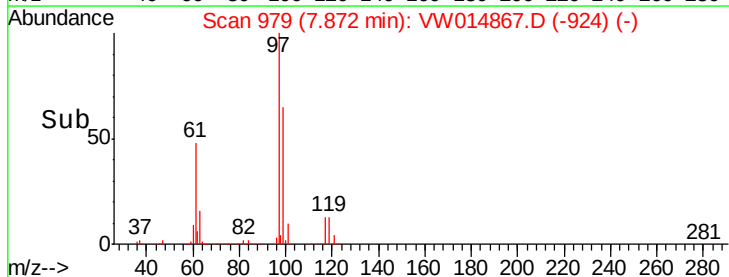
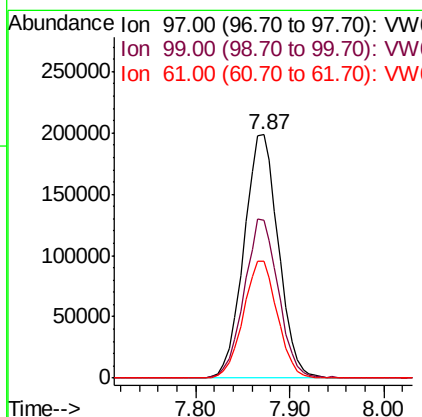
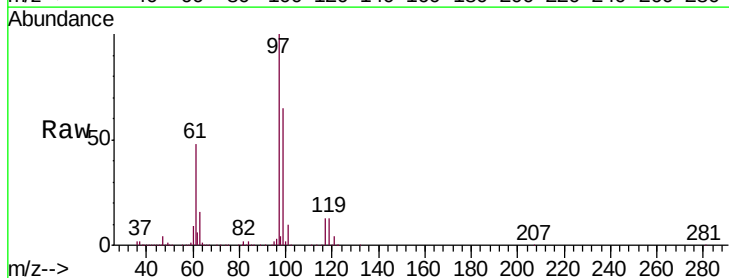
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

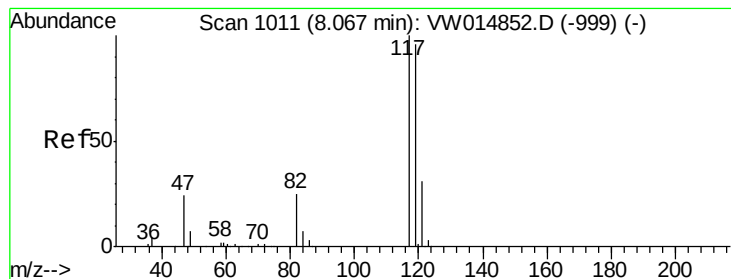
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.2	22.6	33.8
84	79.9	62.2	93.4



#31
1,1,1-Trichloroethane
Concen: 21.209 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.4	77.0
61	47.6	39.0	58.4





#32

Carbon tetrachloride

Concen: 20.861 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

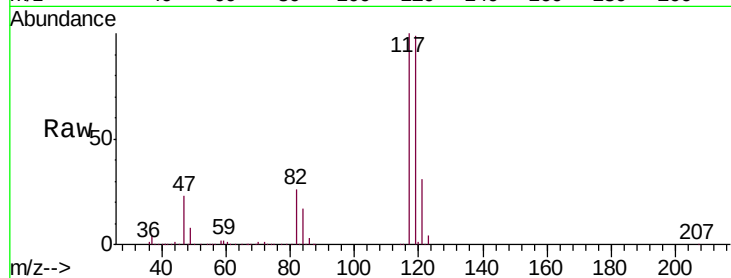
VSTD02512

Tgt Ion:117 Resp: 455490

Ion Ratio Lower Upper

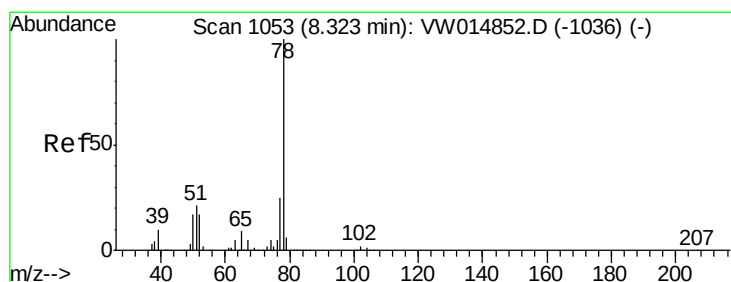
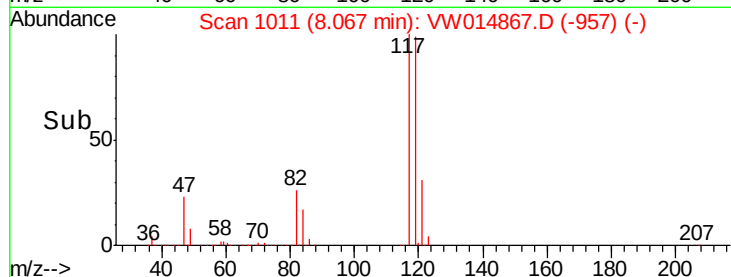
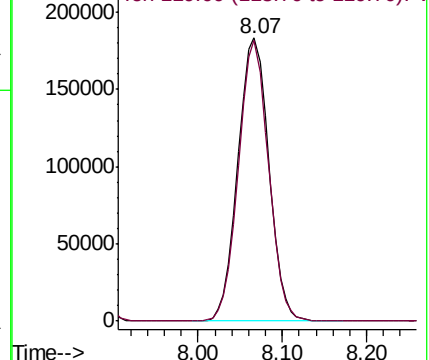
117 100

119 95.9 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 22.155 ug/L

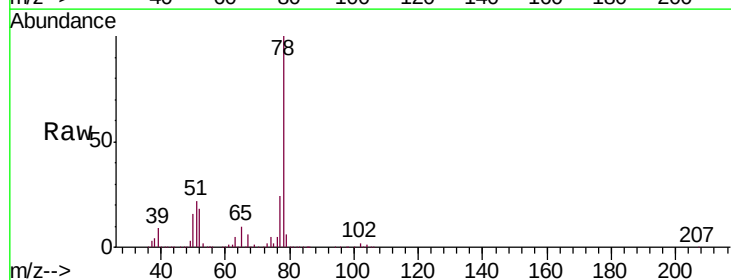
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

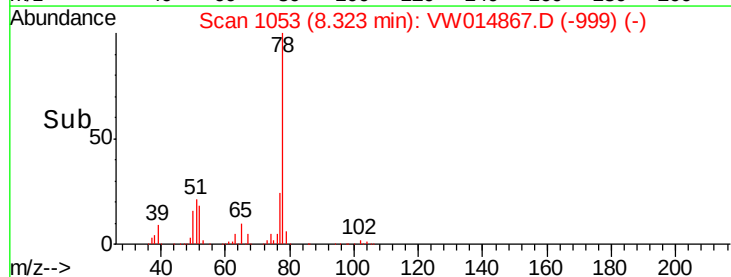
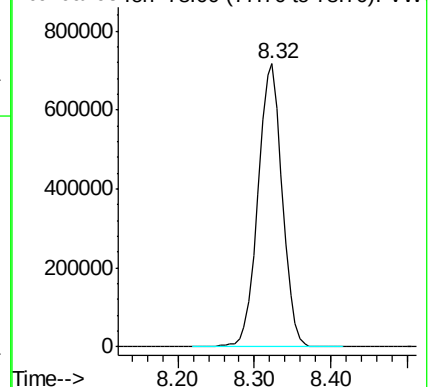
Lab File: VW014867.D

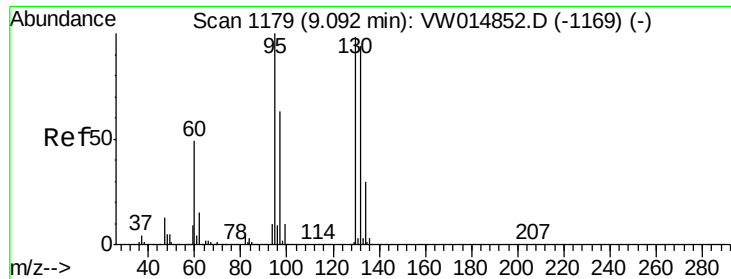
Acq: 04 Feb 2020 19:16

Tgt Ion: 78 Resp: 1588988



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 22.053 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tgt Ion: 95 Resp: 390608

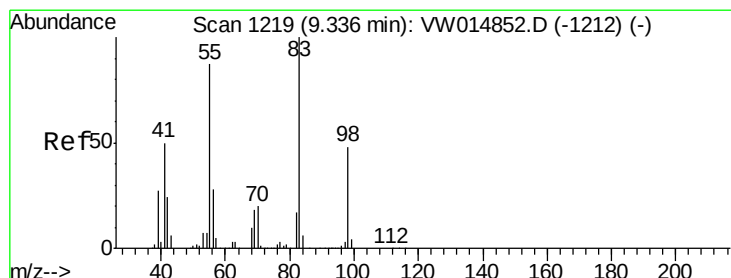
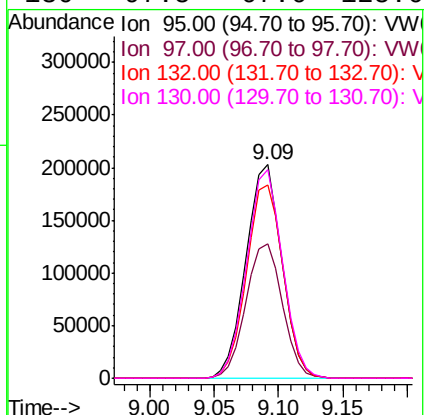
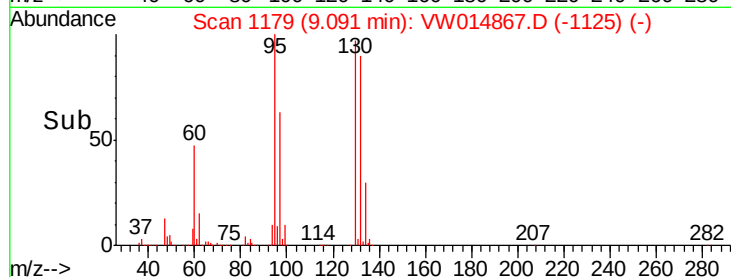
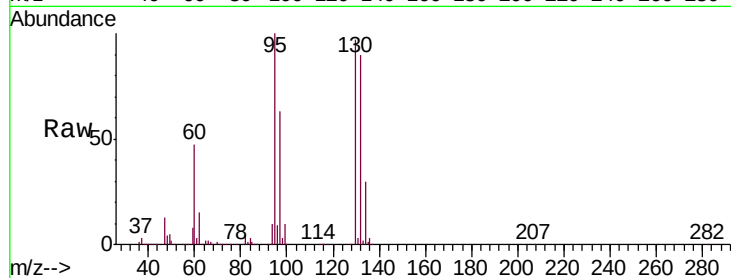
Ion Ratio Lower Upper

95 100

97 64.1 44.4 82.5

132 92.1 64.3 119.5

130 97.5 67.6 125.6



#36

Methylcyclohexane

Concen: 22.767 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

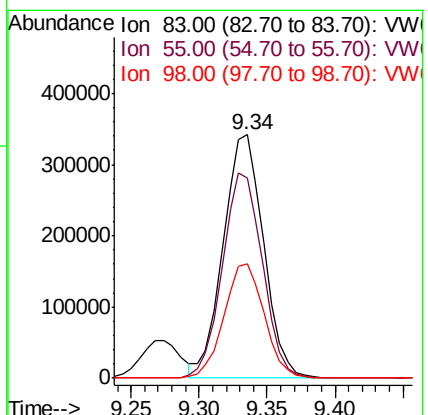
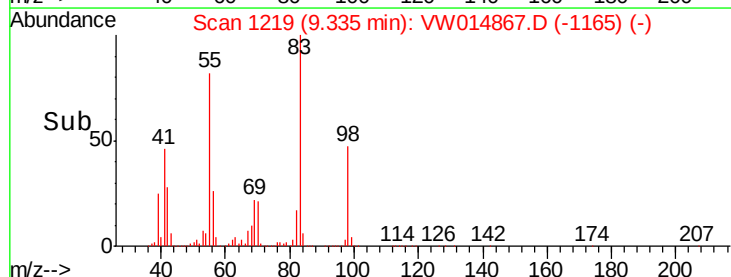
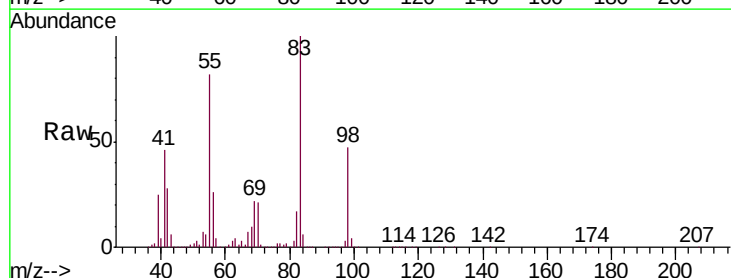
Tgt Ion: 83 Resp: 706294

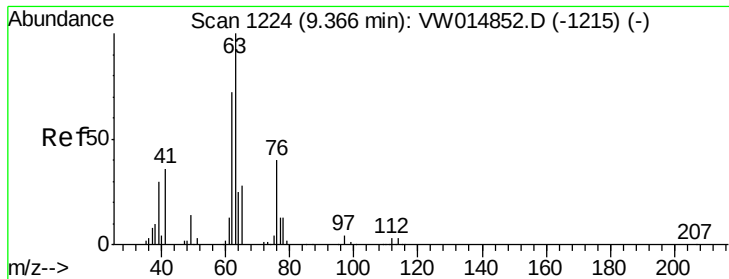
Ion Ratio Lower Upper

83 100

55 83.4 71.0 106.6

98 46.8 37.7 56.5

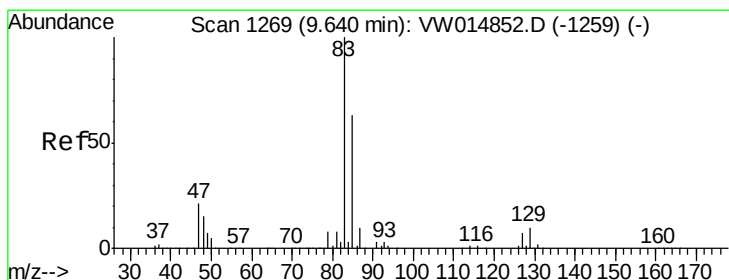
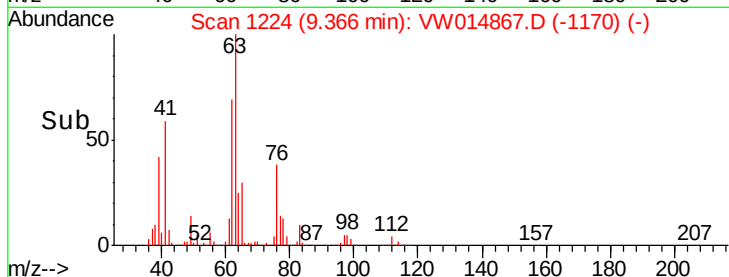
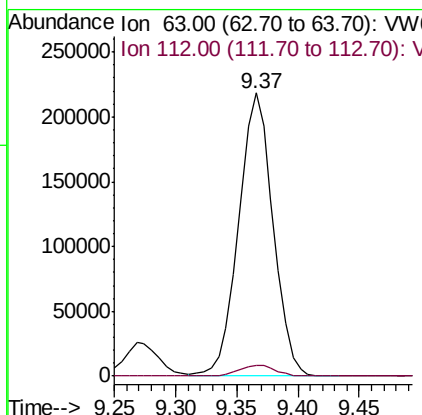
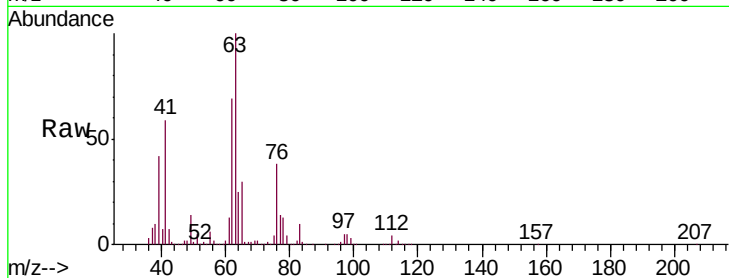




#40
 1,2-Dichloropropane
 Concen: 21.982 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

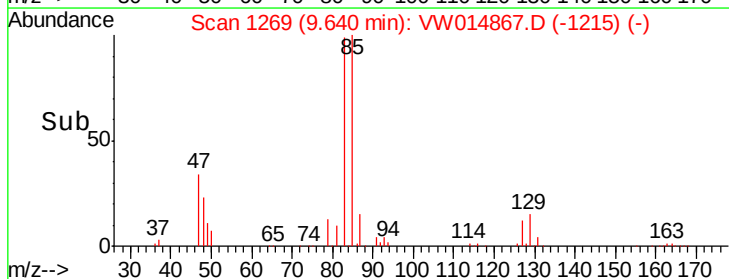
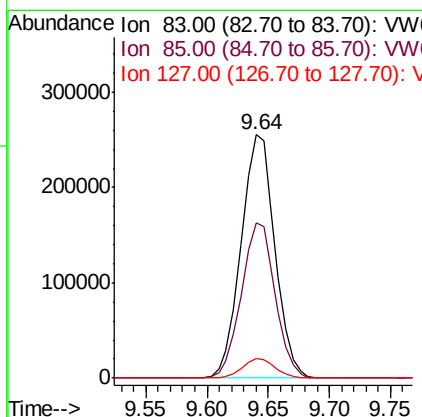
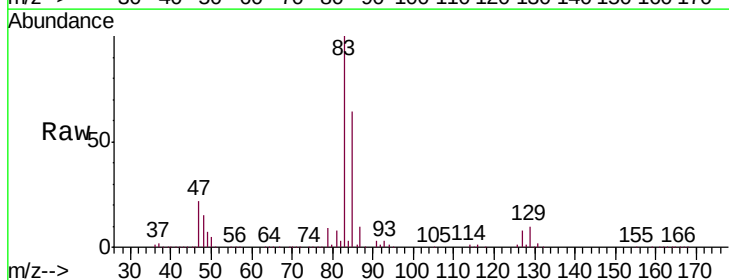
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

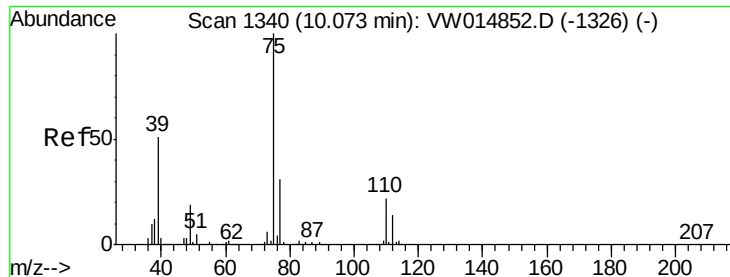
Tgt Ion: 63 Resp: 425205
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.2 4.8



#41
 Bromodichloromethane
 Concen: 22.047 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

Tgt Ion: 83 Resp: 488666
 Ion Ratio Lower Upper
 83 100
 85 63.9 44.2 82.0
 127 7.9 6.0 9.0

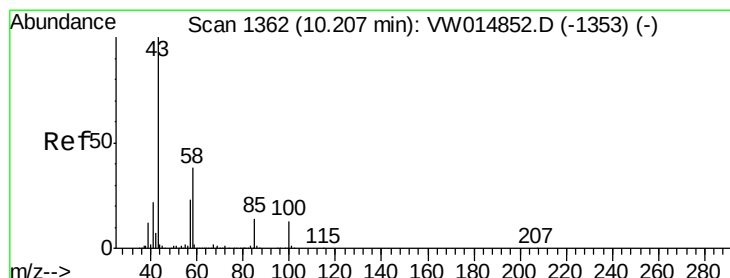
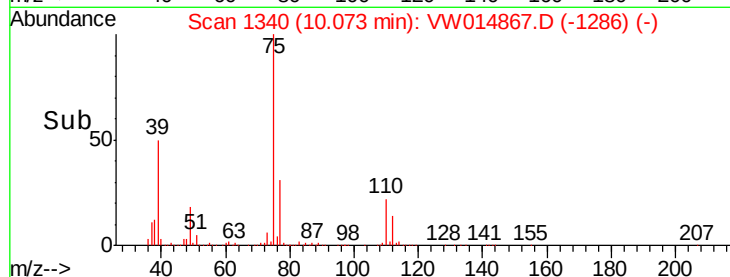
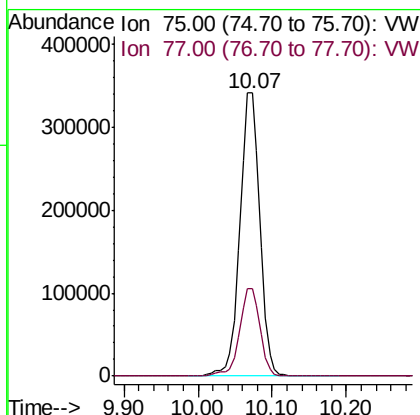
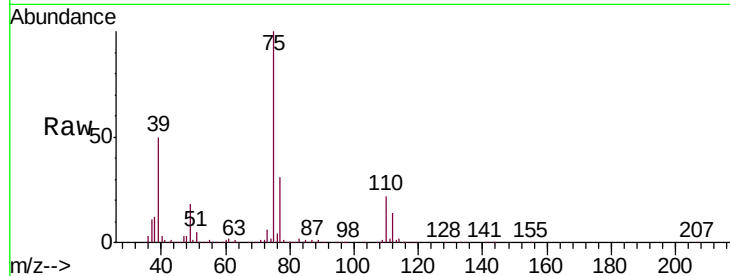




#42
 cis-1,3-Dichloropropene
 Concen: 23.890 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

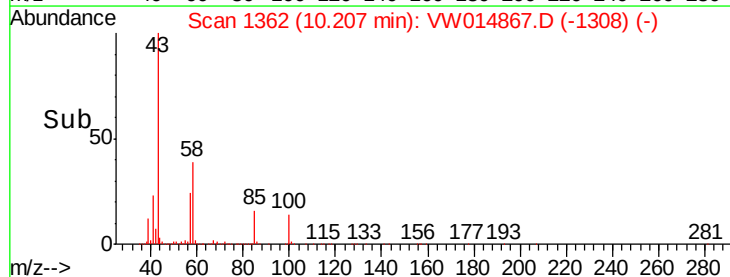
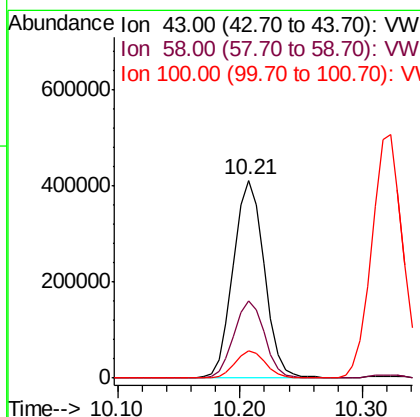
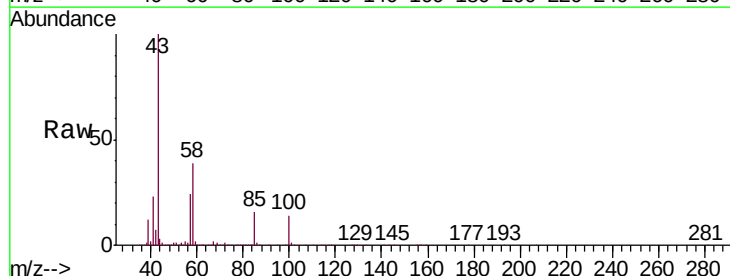
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

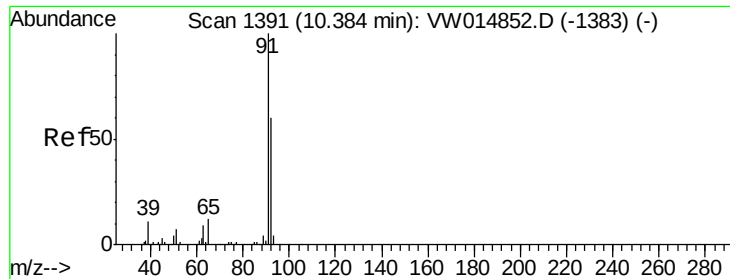
Tgt Ion: 75 Resp: 643242
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.1 41.1



#43
 4-Methyl-2-pentanone
 Concen: 50.951 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

Tgt Ion: 43 Resp: 723657
 Ion Ratio Lower Upper
 43 100
 58 38.6 29.3 43.9
 100 13.6 10.2 15.4





#44

Toluene

Concen: 23.082 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

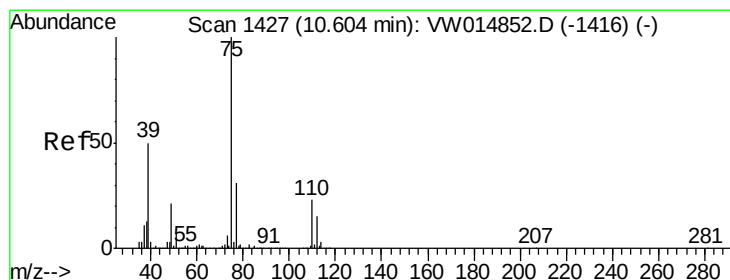
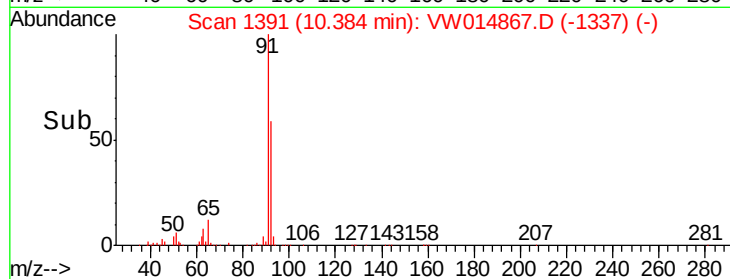
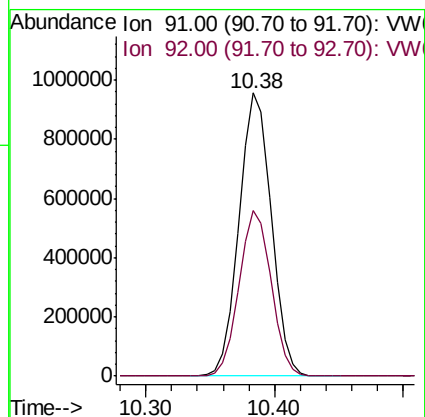
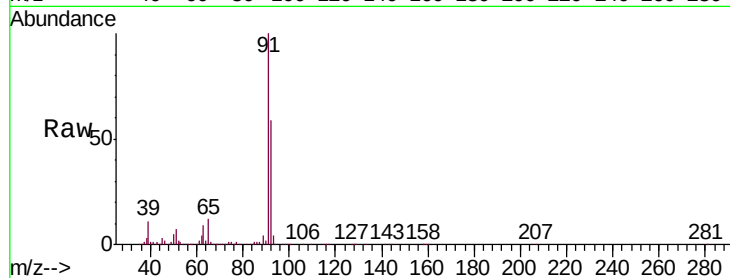
VSTD02512

Tgt Ion: 91 Resp: 1656299

Ion Ratio Lower Upper

91 100

92 58.5 41.6 77.2



#45

trans-1,3-Dichloropropene

Concen: 23.309 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014867.D

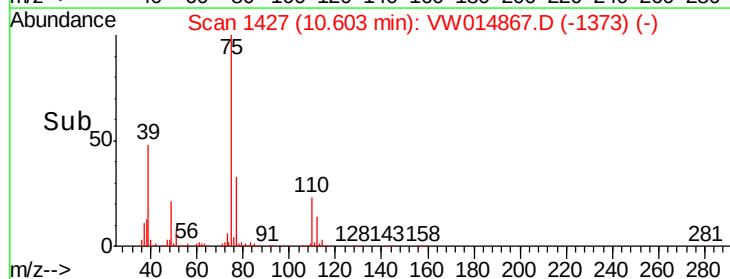
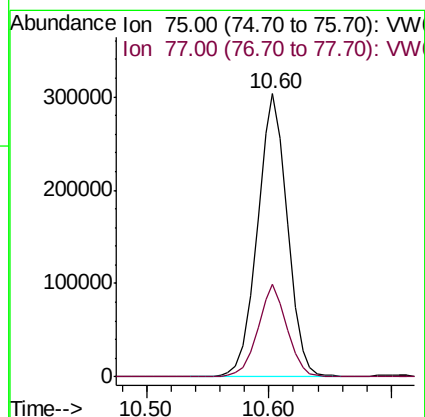
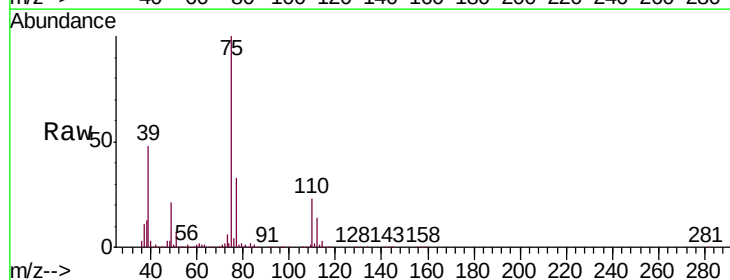
Acq: 04 Feb 2020 19:16

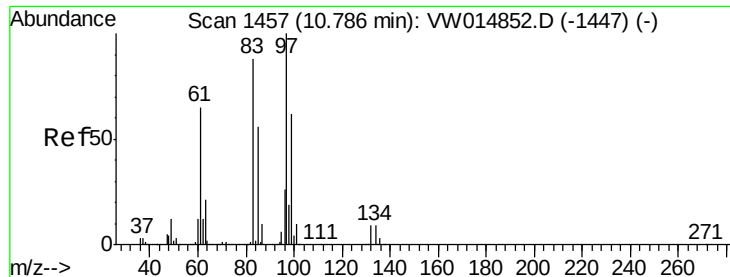
Tgt Ion: 75 Resp: 516447

Ion Ratio Lower Upper

75 100

77 32.6 22.7 42.1





#46

1,1,2-Trichloroethane

Concen: 23.426 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tgt Ion: 97 Resp: 299857

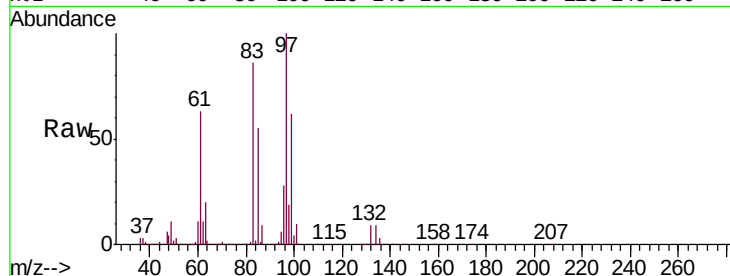
Ion Ratio Lower Upper

97 100

83 86.4 61.9 115.1

85 54.7 38.5 71.5

99 61.8 42.0 78.0



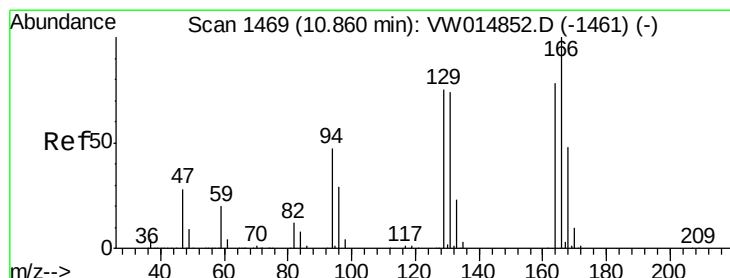
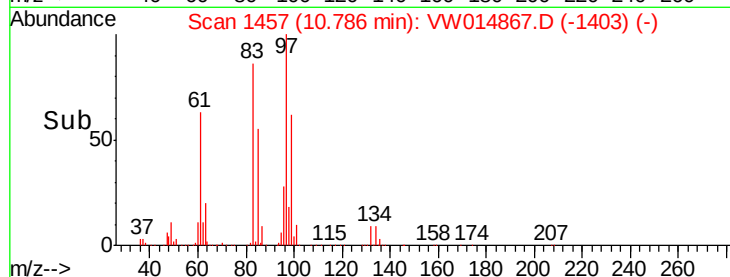
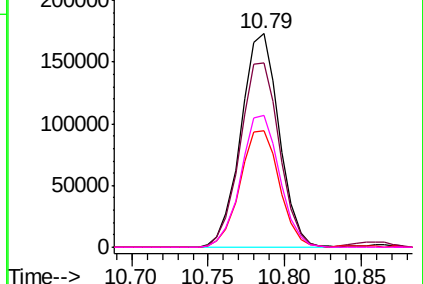
Abundance

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: 21.477 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Tgt Ion: 164 Resp: 283791

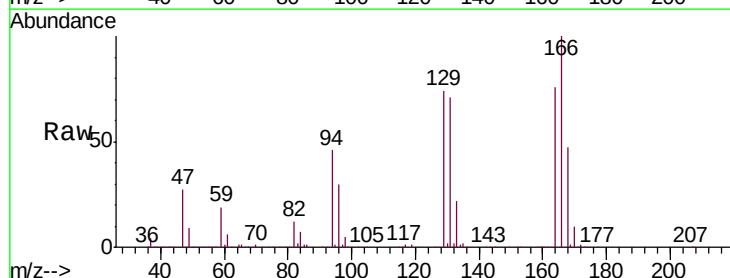
Ion Ratio Lower Upper

164 100

129 96.8 67.1 124.5

131 92.7 62.2 115.6

166 130.9 87.6 162.6



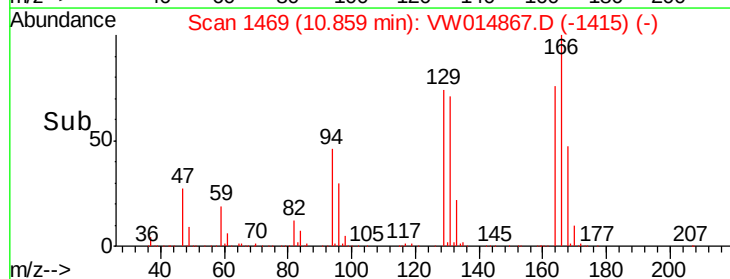
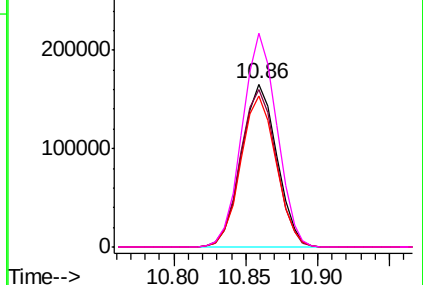
Abundance

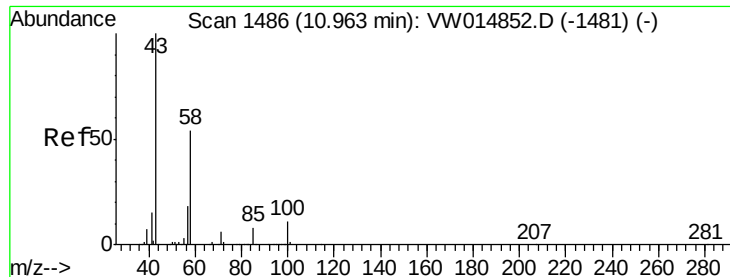
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 51.811 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

Tgt Ion: 43 Resp: 507747

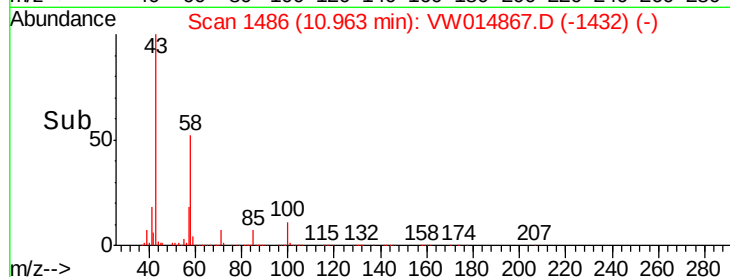
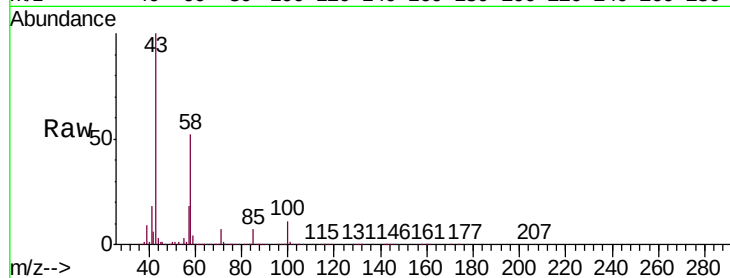
Ion Ratio Lower Upper

43 100

58 53.5 41.1 61.7

57 18.5 14.1 21.1

100 11.0 8.1 12.1

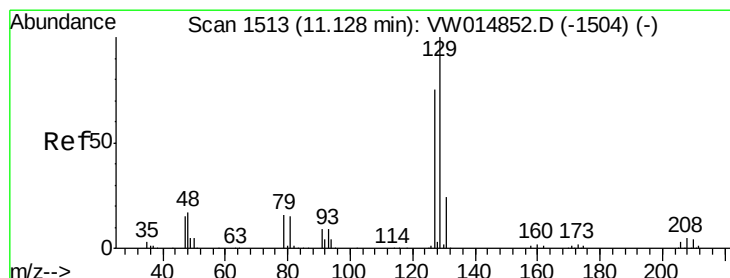
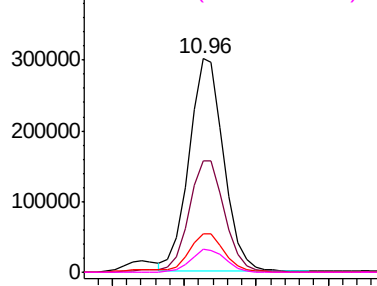


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 23.123 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW014867.D

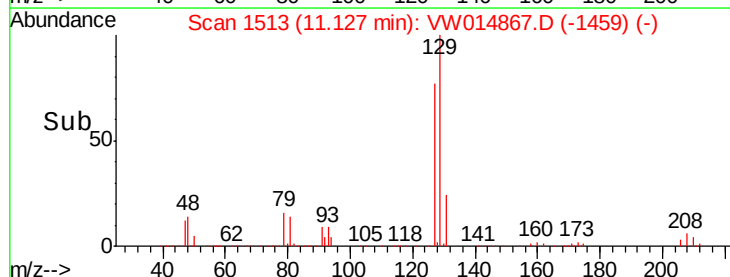
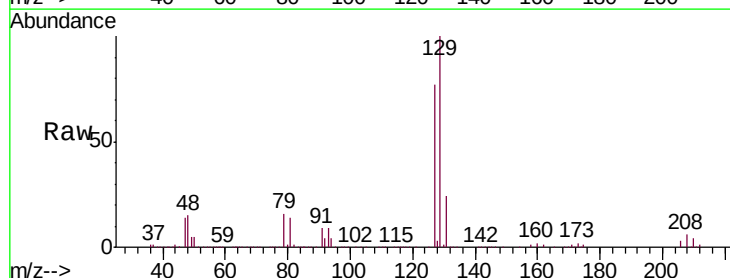
Acq: 04 Feb 2020 19:16

Tgt Ion: 129 Resp: 318193

Ion Ratio Lower Upper

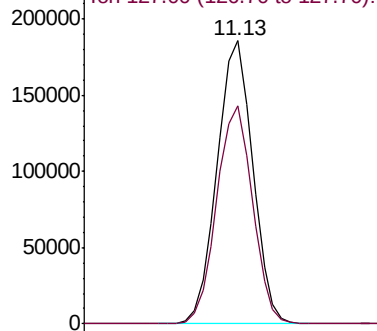
129 100

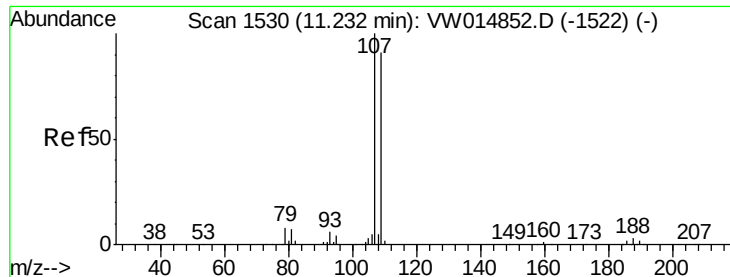
127 77.0 54.2 100.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 24.018 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

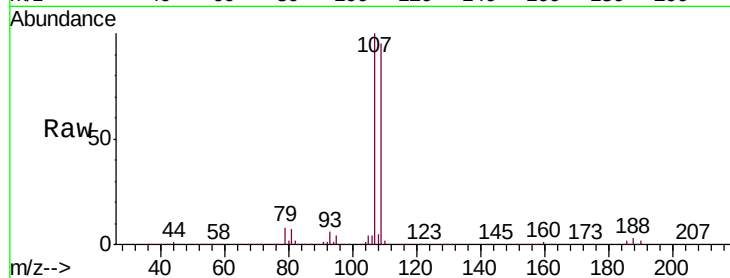
Tgt Ion:107 Resp: 289064

Ion Ratio Lower Upper

107 100

109 94.6 66.6 123.8

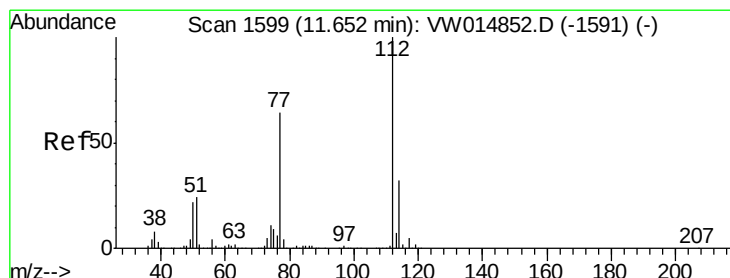
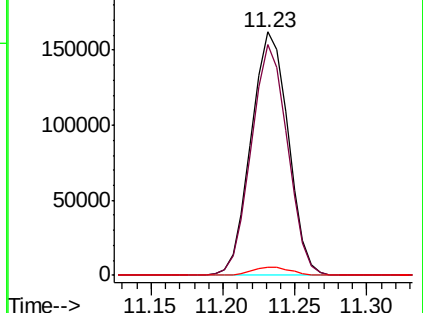
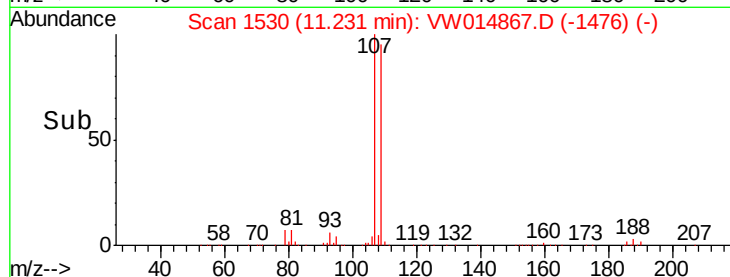
188 3.4 2.5 3.7



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: 22.876 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

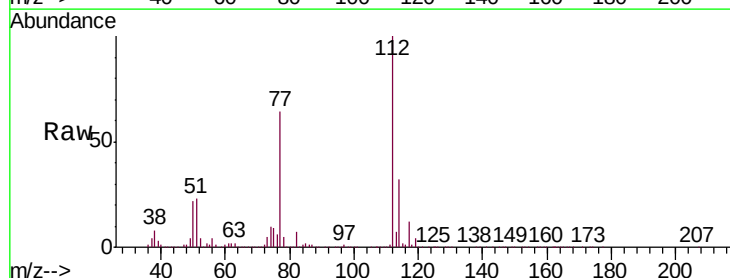
Tgt Ion:112 Resp: 1001403

Ion Ratio Lower Upper

112 100

77 64.0 49.8 74.8

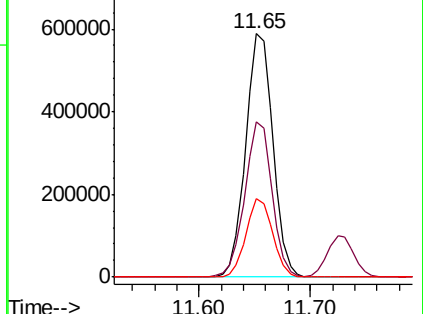
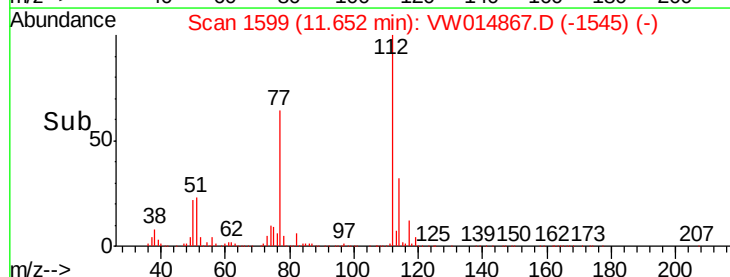
114 32.1 22.1 41.1

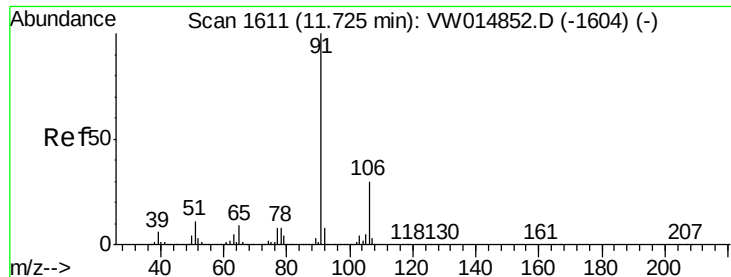


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 23.626 ug/L

RT: 11.72 min Scan# 1611

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

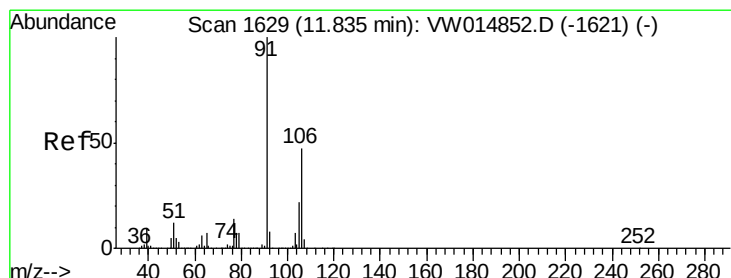
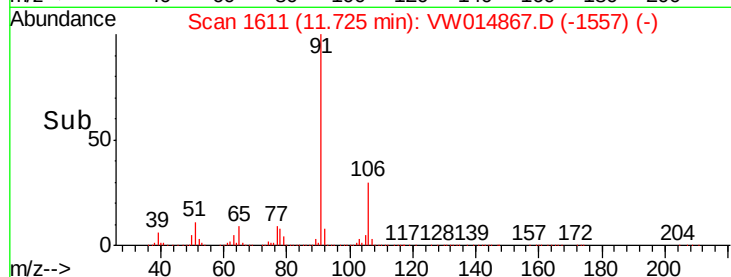
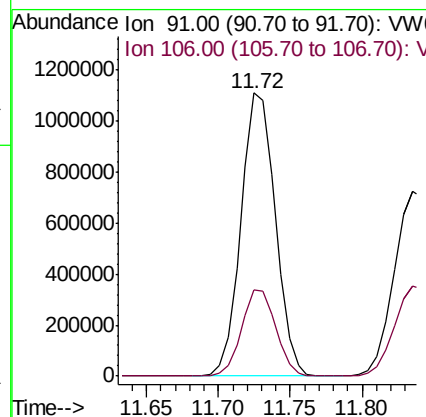
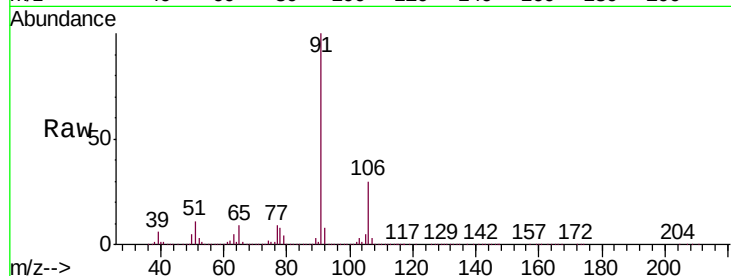
VSTD02512

Tgt Ion: 91 Resp: 1836894

Ion Ratio Lower Upper

91 100

106 30.3 21.3 39.5



#54

m,p-Xylene

Concen: 23.893 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014867.D

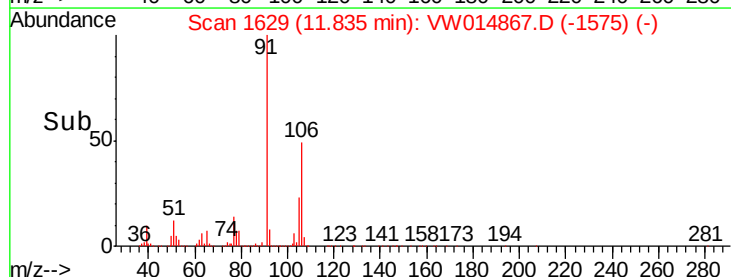
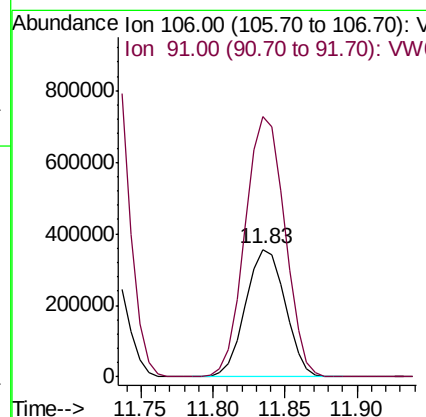
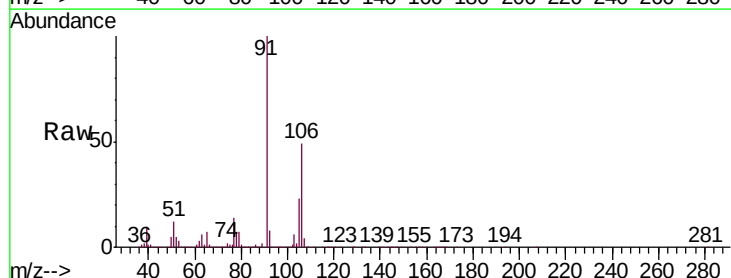
Acq: 04 Feb 2020 19:16

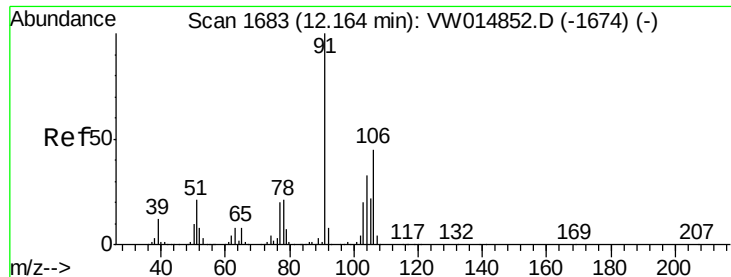
Tgt Ion: 106 Resp: 679794

Ion Ratio Lower Upper

106 100

91 204.4 145.3 269.9

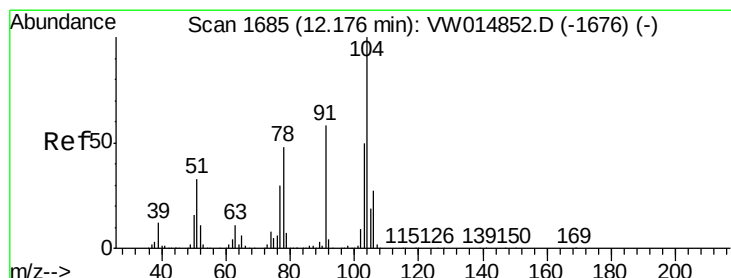
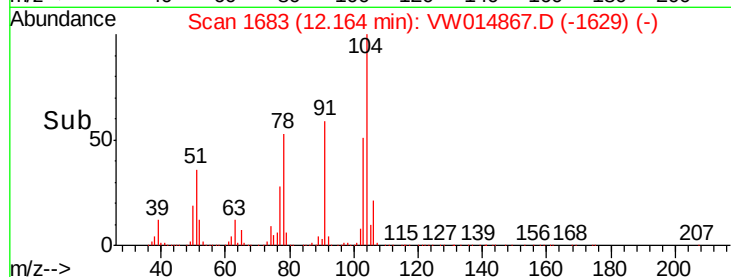
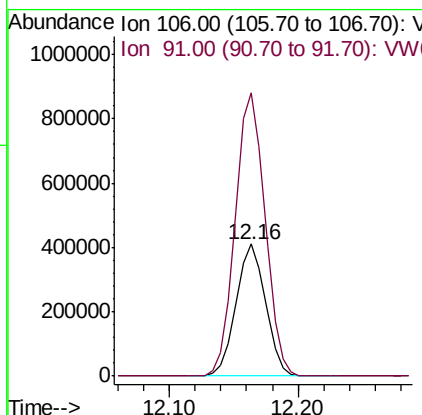
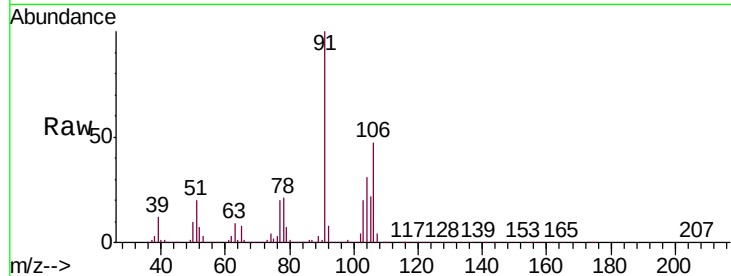




#55
o-xylene
Concen: 24.568 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

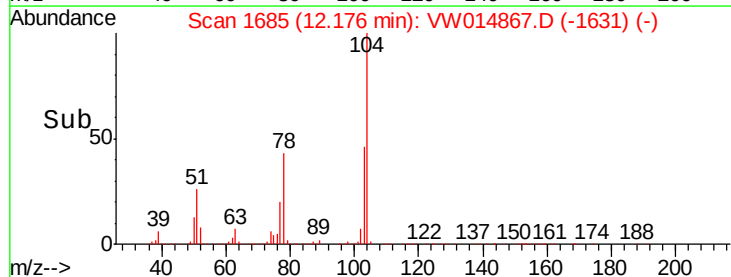
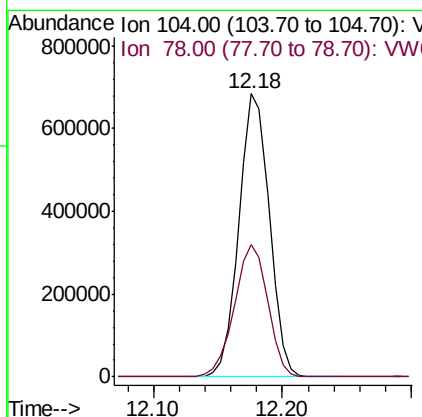
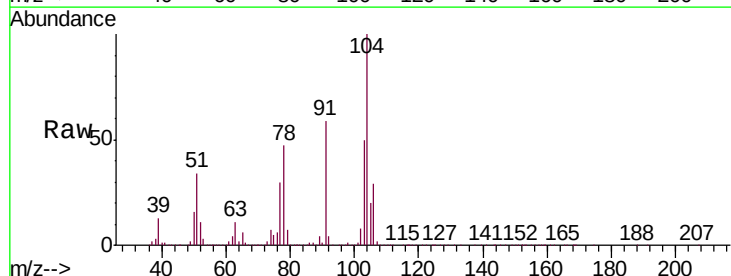
Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

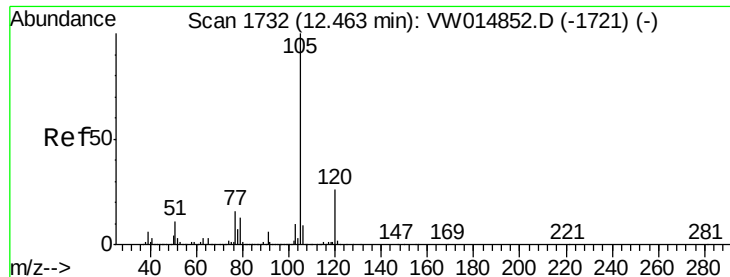
Tgt Ion:106 Resp: 651206
Ion Ratio Lower Upper
106 100
91 214.4 154.6 287.0



#56
Styrene
Concen: 24.788 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

Tgt Ion:104 Resp: 1118815
Ion Ratio Lower Upper
104 100
78 46.9 34.3 63.7





#57

Isopropylbenzene

Concen: 24.829 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

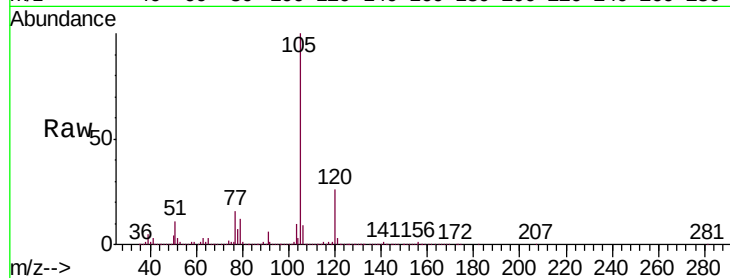
Tgt Ion:105 Resp: 1779723

Ion Ratio Lower Upper

105 100

120 25.8 20.5 30.7

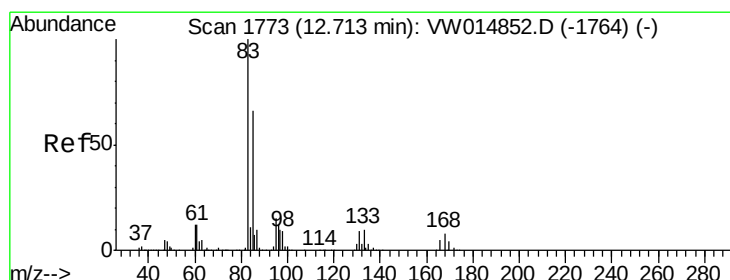
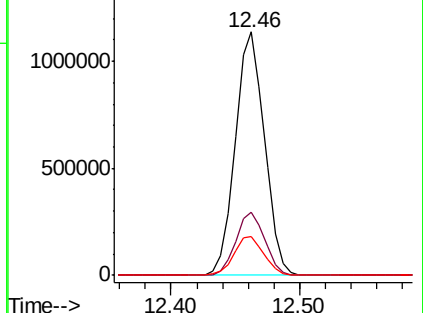
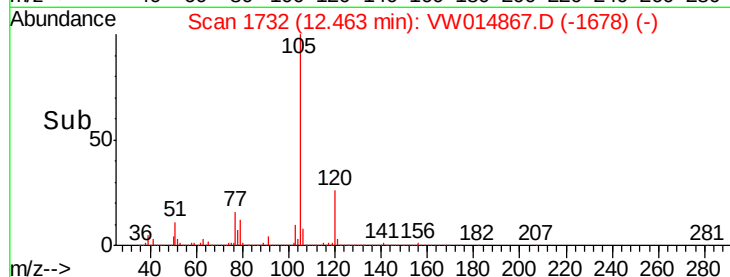
77 16.3 13.3 19.9



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: 24.245 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

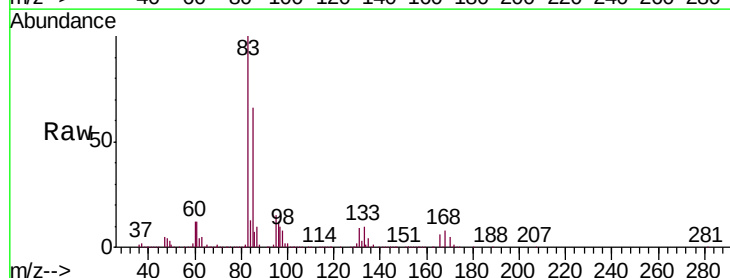
Tgt Ion: 83 Resp: 407379

Ion Ratio Lower Upper

83 100

85 65.8 44.9 83.5

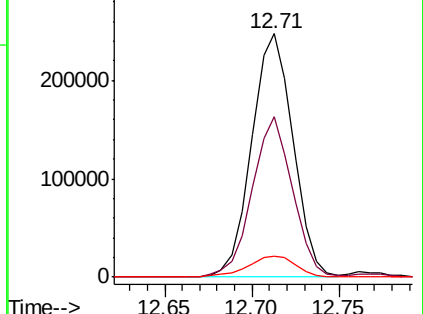
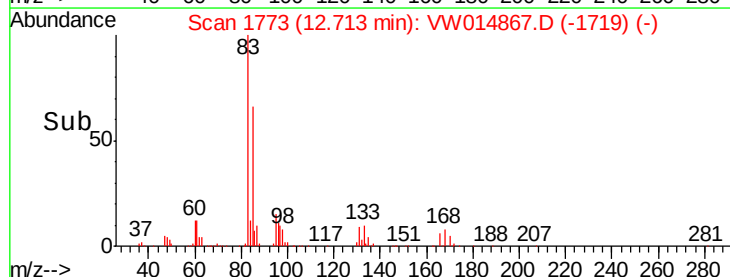
131 8.8 6.9 10.3

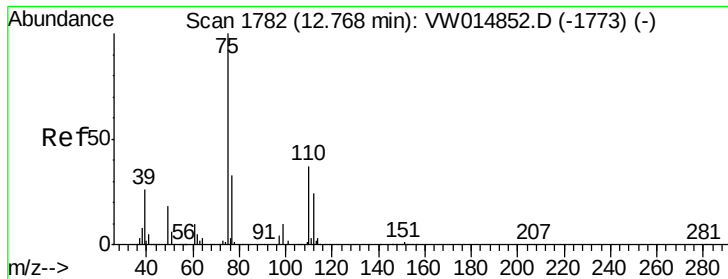


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.870 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

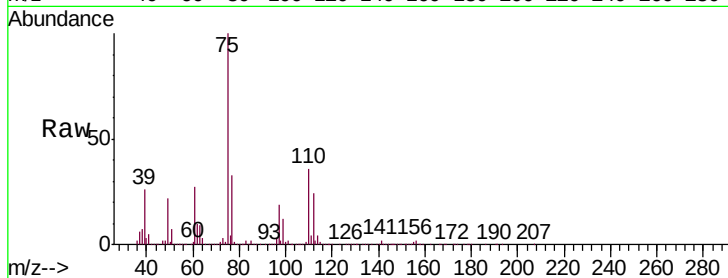
VSTD02512

Tgt Ion: 75 Resp: 307048

Ion Ratio Lower Upper

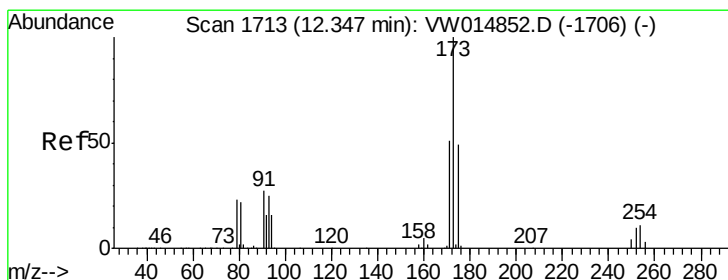
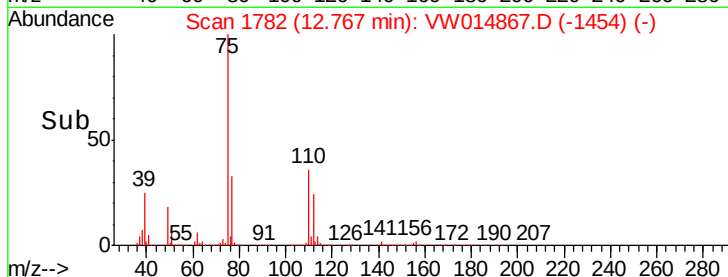
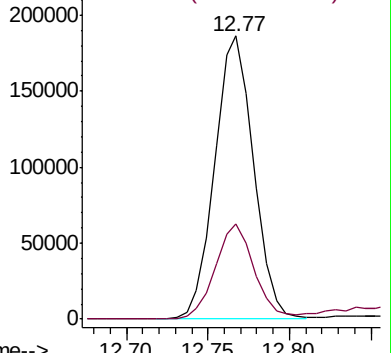
75 100

77 33.6 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#62

Bromoform

Concen: 23.108 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

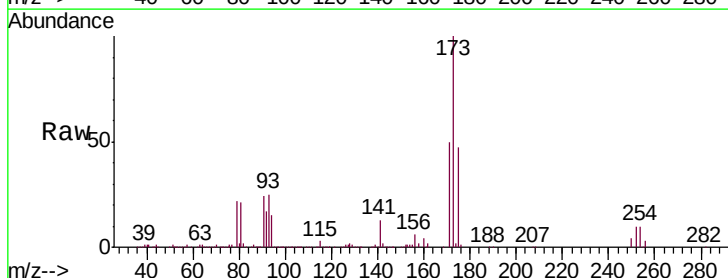
Tgt Ion: 173 Resp: 182868

Ion Ratio Lower Upper

173 100

175 48.8 38.2 57.4

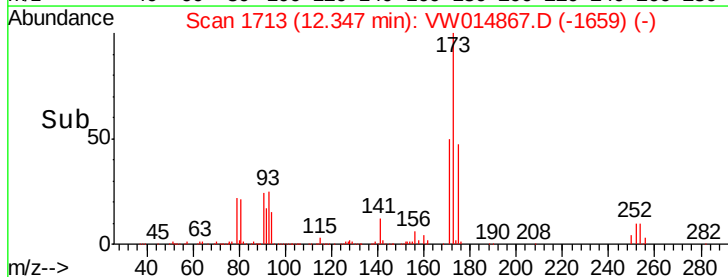
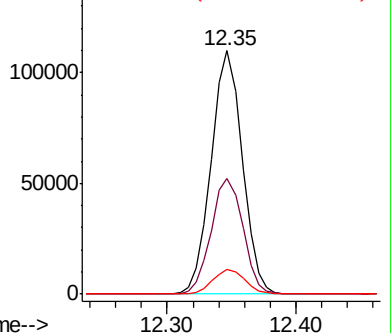
254 10.5 8.6 13.0

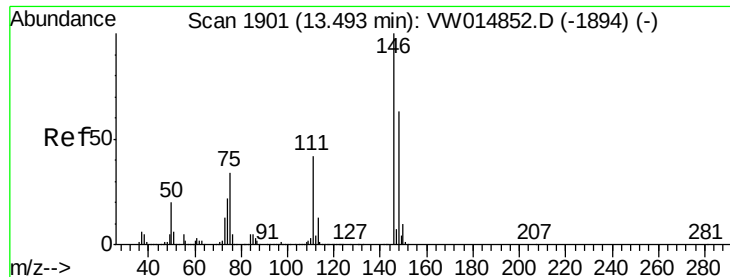


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#63

1,3-Dichlorobenzene

Concen: 23.475 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.01 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02512

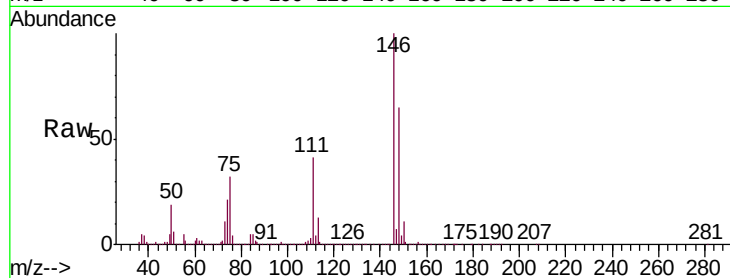
Tgt Ion:146 Resp: 753789

Ion Ratio Lower Upper

146 100

111 41.2 28.8 53.4

148 65.0 45.1 83.7

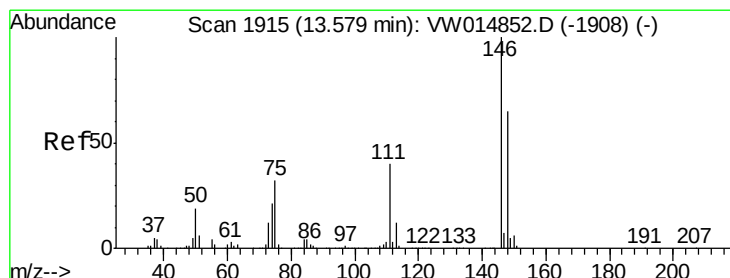
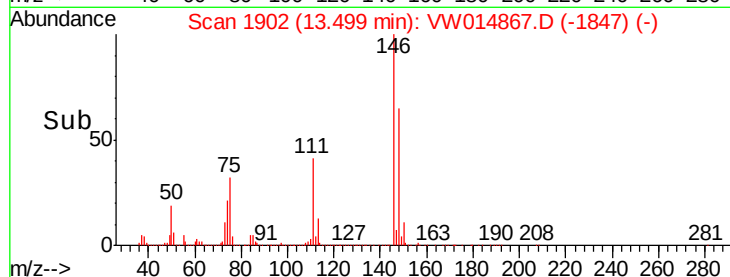
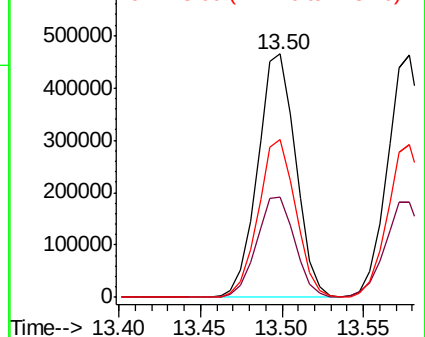


Abundance

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



#64

1,4-Dichlorobenzene

Concen: 22.871 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014867.D

Acq: 04 Feb 2020 19:16

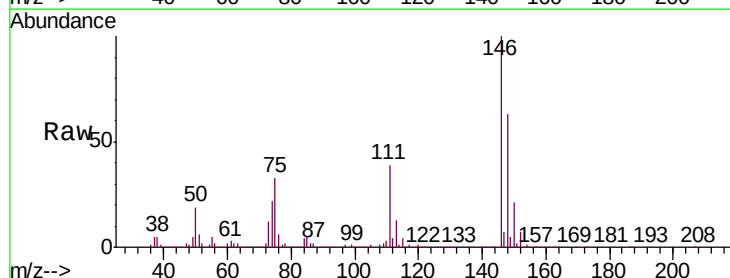
Tgt Ion:146 Resp: 740251

Ion Ratio Lower Upper

146 100

111 39.2 27.2 50.4

148 62.8 44.2 82.0

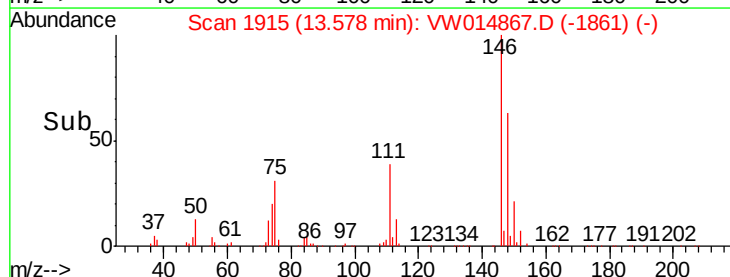
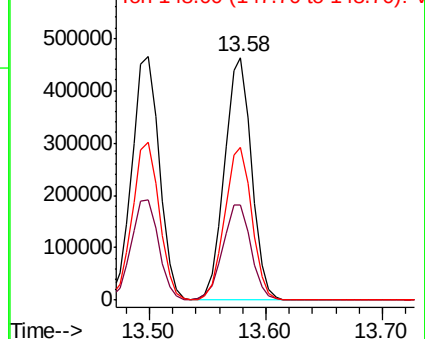


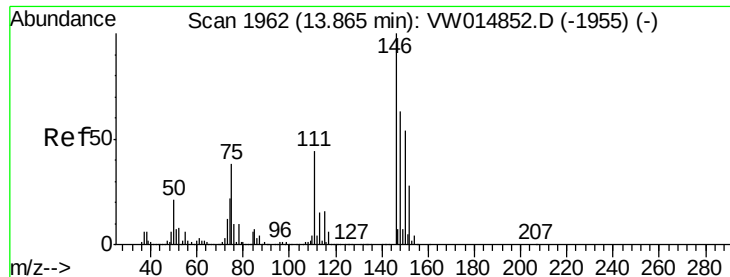
Abundance

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

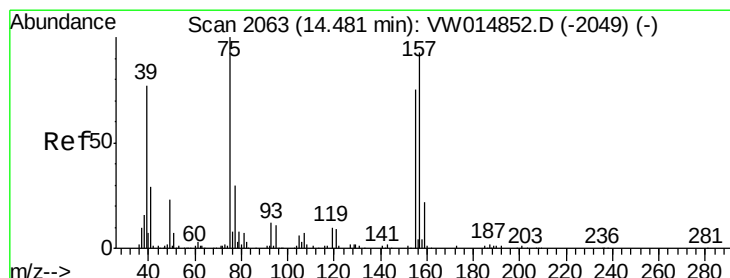
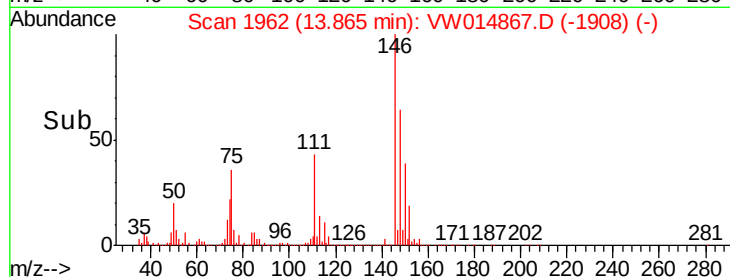
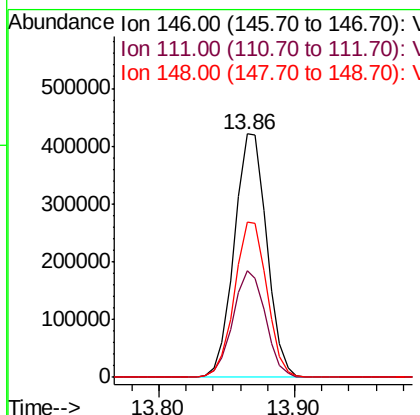
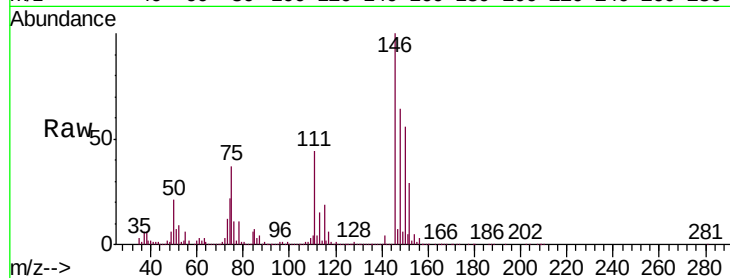




#65
 1,2-Dichlorobenzene
 Concen: 23.993 ug/L
 RT: 13.86 min Scan# 1962
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

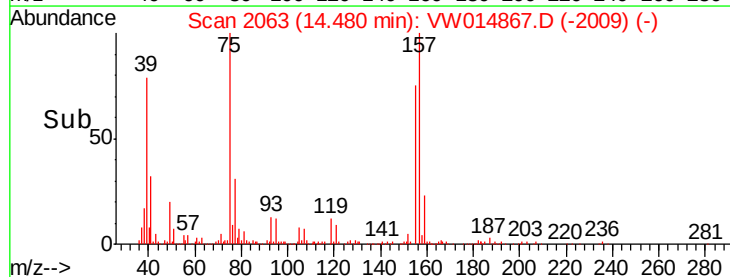
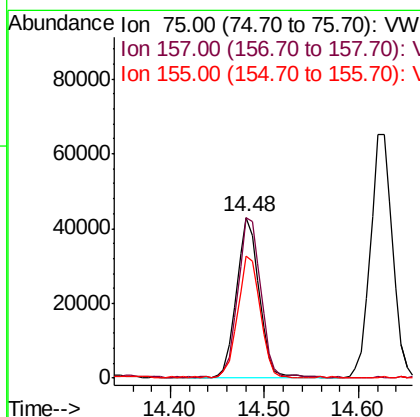
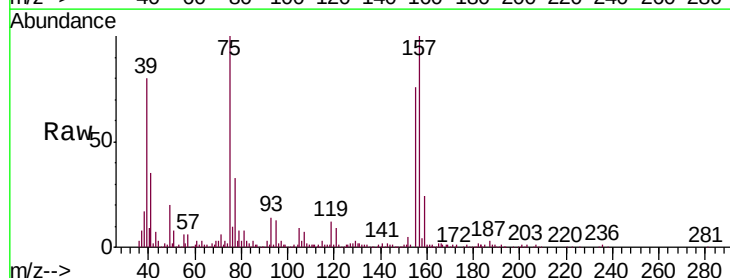
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

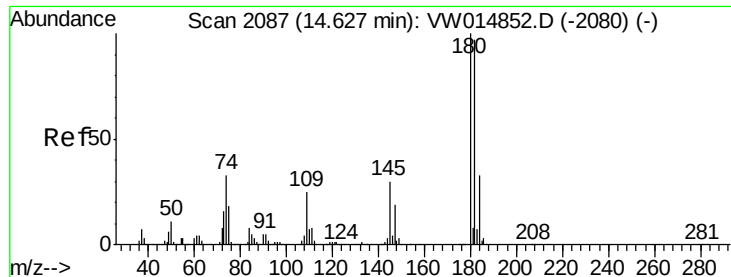
Tgt Ion: 146 Resp: 701427
 Ion Ratio Lower Upper
 146 100
 111 43.6 34.3 51.5
 148 64.0 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 25.156 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

Tgt Ion: 75 Resp: 71780
 Ion Ratio Lower Upper
 75 100
 157 100.1 68.2 102.2
 155 75.7 56.0 84.0

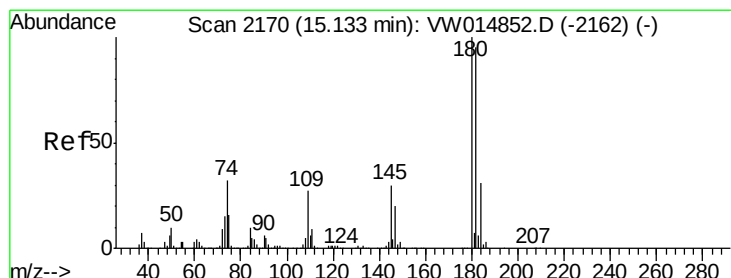
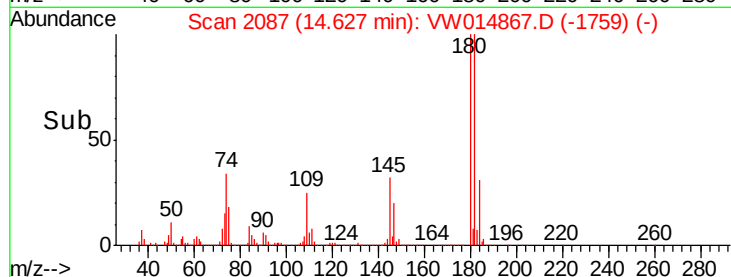
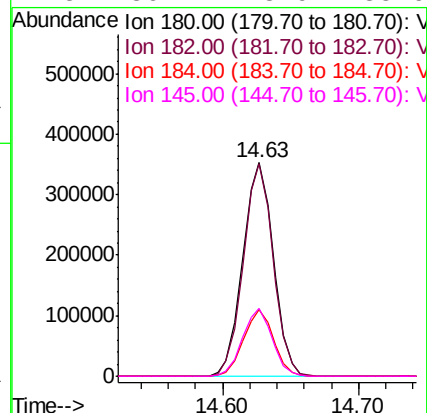
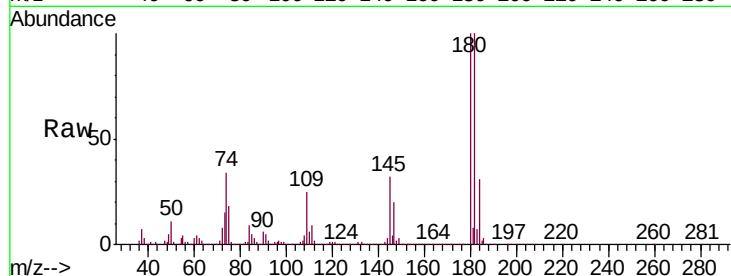




#67
 1,3,5-Trichlorobenzene
 Concen: 24.304 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

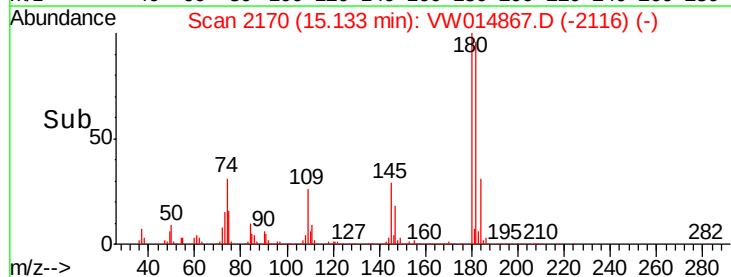
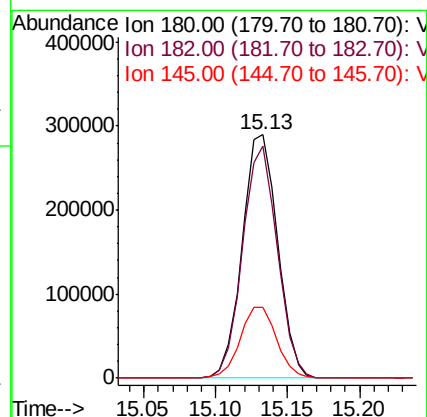
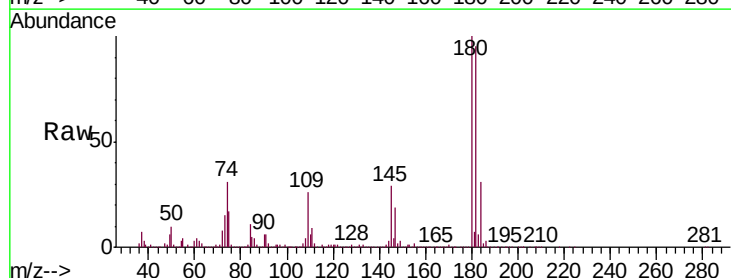
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02512

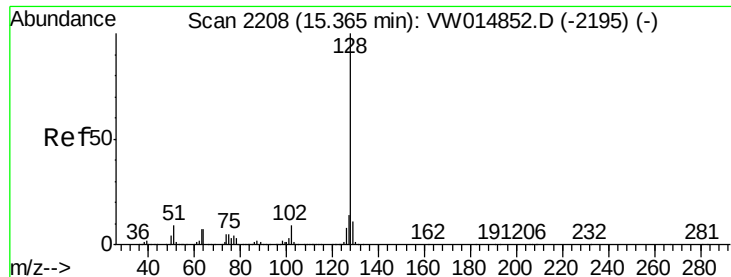
Tgt Ion:	180	Resp:	552968
Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.1	114.1
184	30.6	24.2	36.2
145	30.7	23.9	35.9



#68
 1,2,4-trichlorobenzene
 Concen: 27.784 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014867.D
 Acq: 04 Feb 2020 19:16

Tgt Ion:	180	Resp:	493880
Ion	Ratio	Lower	Upper
180	100		
182	93.2	74.7	112.1
145	29.9	24.1	36.1

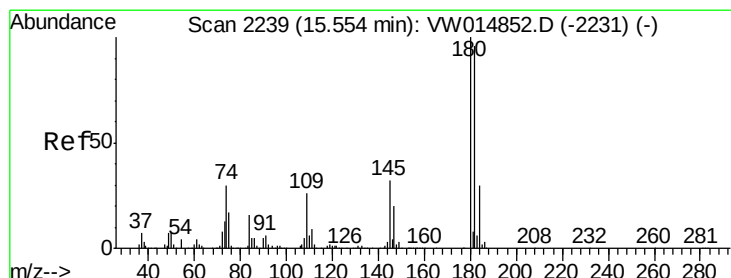
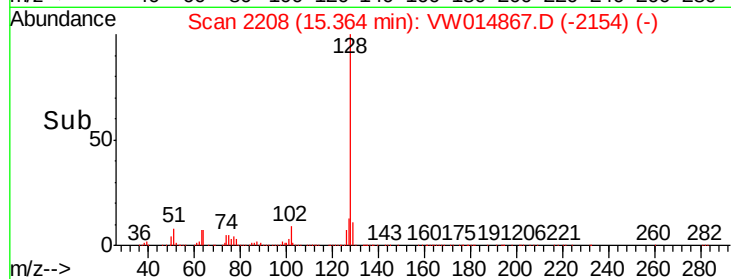
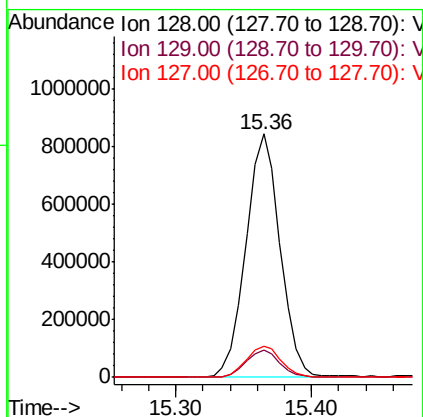
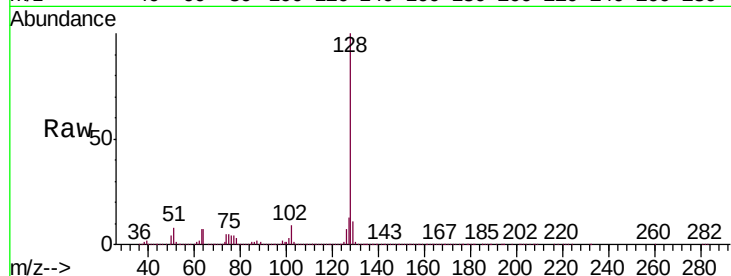




#69
Naphthalene
Concen: 40.839 ug/L
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

Instrument :
MSVOA_W
ClientSampleId :
VSTD02512

Tgt Ion:128 Resp: 1472866
Ion Ratio Lower Upper
128 100
129 11.0 8.7 13.1
127 13.2 10.6 15.8



#70
1,2,3-Trichlorobenzene
Concen: 27.304 ug/L
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW014867.D
Acq: 04 Feb 2020 19:16

Tgt Ion:180 Resp: 448524
Ion Ratio Lower Upper
180 100
182 94.8 76.4 114.6
145 33.8 25.7 38.5

