

Data File : VW011114.D
Acq On : 02 Jul 2019 17:50
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

Quant Time: Jul 03 05:15:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 02 12:27:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	339207	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	311222	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	153343	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	134129	25.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.56%
7) Chloroethane-d5	2.89	69	95090	26.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.68%
10) 1,1-Dichloroethene-d2	4.02	63	276369	25.19	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.76%
20) 2-Butanone-d5	7.07	46	115241	56.48	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	112.96%
24) Chloroform-d	7.65	84	243176	26.15	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.60%
26) 1,2-Dichloroethane-d4	8.31	65	155521	27.16	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	108.64%
29) Benzene-d6	8.27	84	500017	26.08	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.32%
33) 1,2-Dichloropropane-d6	9.27	67	164686	26.38	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.52%
37) Toluene-d8	10.32	98	448180	26.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.92%
38) trans-1,3-Dichloropropene-	10.58	79	70698	26.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	106.52%
39) 2-Hexanone-d5	10.93	63	81261	56.76	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	113.52%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	142987	27.69	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	110.76%
61) 1,2-Dichlorobenzene-d4	13.85	152	153701	26.11	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	104.44%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	108747	26.066 ug/L	99
3) Chloromethane	2.21	50	101696	22.453 ug/L	100
5) Vinyl chloride	2.36	62	139345	23.571 ug/L	98
6) Bromomethane	2.78	94	65066	23.525 ug/L	98
8) Chloroethane	2.92	64	73881	24.726 ug/L	100
9) Trichlorofluoromethane	3.25	101	42791	21.141 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	109200	24.213 ug/L	98
12) 1,1-Dichloroethene	4.04	96	107808	24.185 ug/L	83
13) Acetone	4.12	43	87020	43.666 ug/L	100
14) Carbon disulfide	4.39	76	296211	23.230 ug/L	100
15) Methyl Acetate	4.67	43	84850	26.166 ug/L	99
16) Methylene chloride	4.92	84	118076	23.688 ug/L	97
17) Methyl tert-butyl Ether	5.43	73	179196	25.922 ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	107314	23.824 ug/L	99
19) 1,1-Dichloroethane	6.21	63	224832	24.586 ug/L	100
21) 2-Butanone	7.17	43	122919	47.779 ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	120185	24.649 ug/L	97

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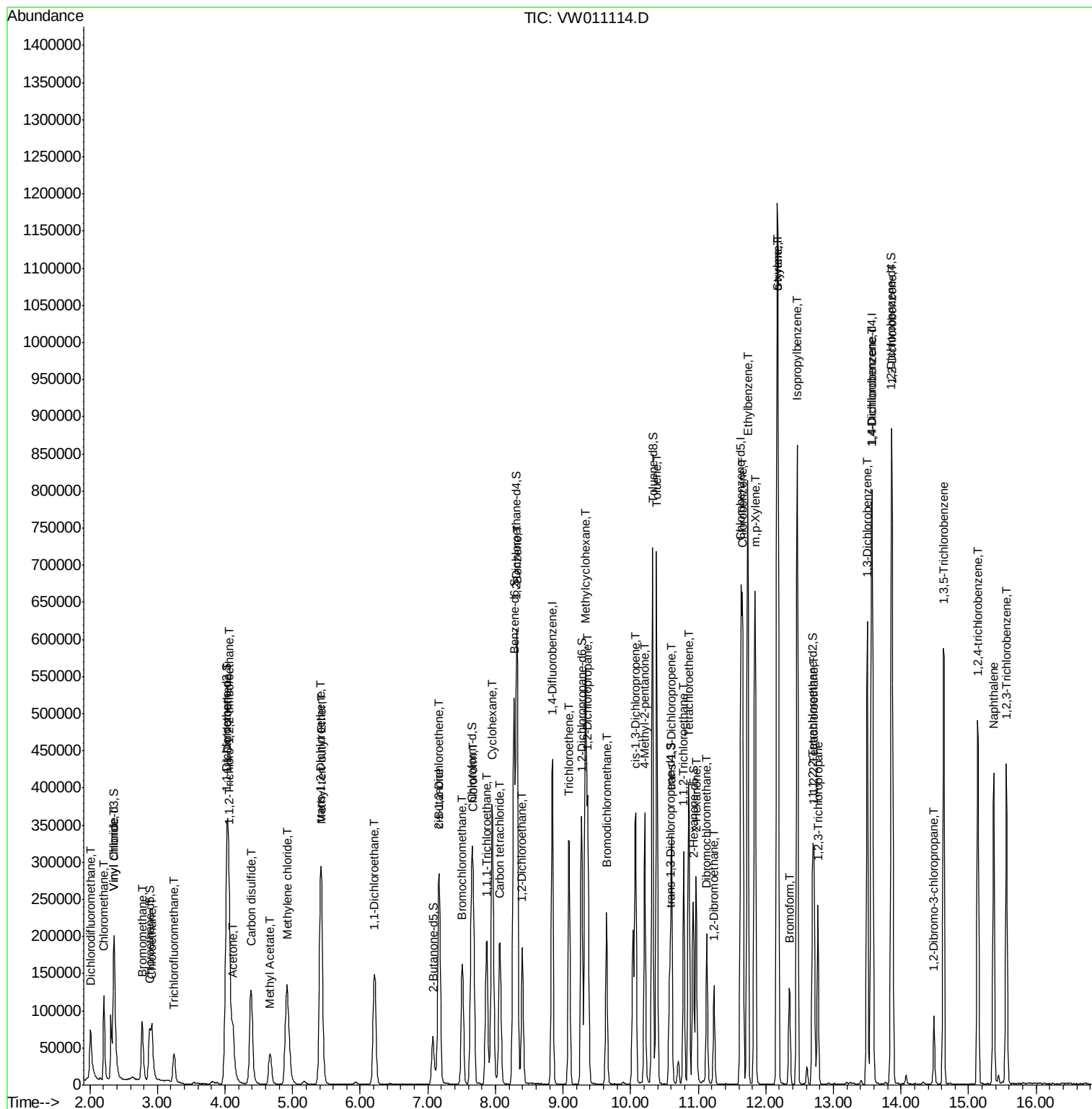
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	51346	25.097	ug/L	97
25) Chloroform	7.67	83	210035	24.248	ug/L	100
27) 1,2-Dichloroethane	8.40	62	166932	25.211	ug/L	99
30) Cyclohexane	7.95	56	224719	23.749	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	154117	23.860	ug/L	100
32) Carbon tetrachloride	8.06	117	143721	23.725	ug/L	99
34) Benzene	8.32	78	471842	24.258	ug/L	100
35) Trichloroethene	9.09	95	117061	23.849	ug/L	98
36) Methylcyclohexane	9.34	83	207932	23.540	ug/L	99
40) 1,2-Dichloropropane	9.37	63	131541	24.680	ug/L	99
41) Bromodichloromethane	9.64	83	152759	24.859	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	200516	25.497	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	254849	51.580	ug/L	99
44) Toluene	10.38	91	492577	24.466	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	166179	25.538	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	92562	25.078	ug/L	97
47) Tetrachloroethene	10.86	164	87015	23.456	ug/L	98
49) 2-Hexanone	10.97	43	188477	52.407	ug/L	99
50) Dibromochloromethane	11.13	129	99378	25.284	ug/L	99
51) 1,2-Dibromoethane	11.23	107	88834	24.926	ug/L	97
52) Chlorobenzene	11.66	112	296756	24.127	ug/L	98
53) Ethylbenzene	11.73	91	558638	24.463	ug/L	100
54) m,p-Xylene	11.84	106	202432	24.415	ug/L	97
55) o-xylene	12.16	106	194010	24.597	ug/L	100
56) Styrene	12.18	104	340995	25.202	ug/L	99
57) Isopropylbenzene	12.46	105	529525	24.594	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	125977	25.656	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	96983	25.719	ug/L	100
62) Bromoform	12.35	173	57346	25.093	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	229476	24.324	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	232572	24.081	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	218405	24.871	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	21200	24.589	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	176263	24.659	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	149569	24.977	ug/L	98
69) Naphthalene	15.37	128	338307	26.975	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	141271	25.784	ug/L	99

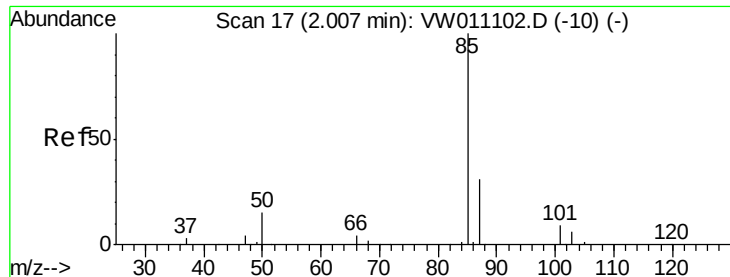
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 26.066 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

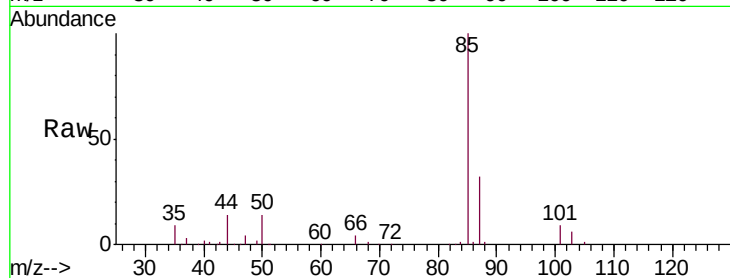
VSTD02513

Tgt Ion: 85 Resp: 108747

Ion Ratio Lower Upper

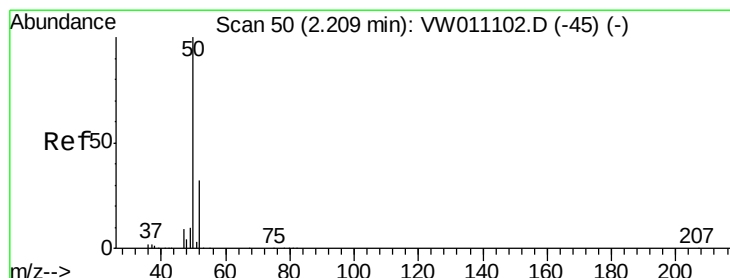
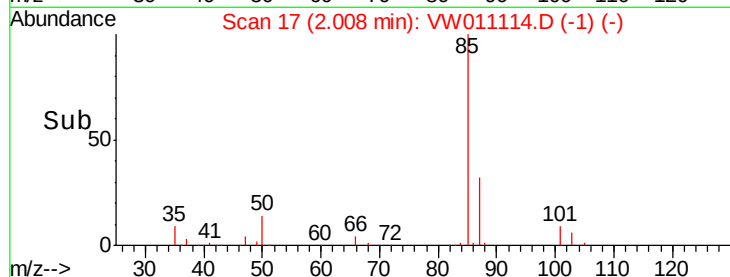
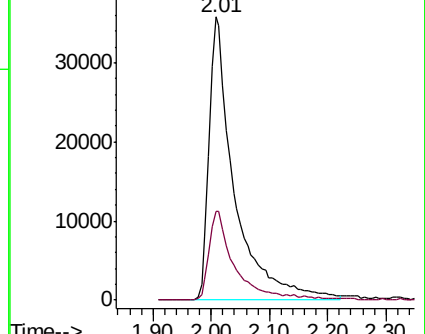
85 100

87 30.2 20.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 22.453 ug/L

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW011114.D

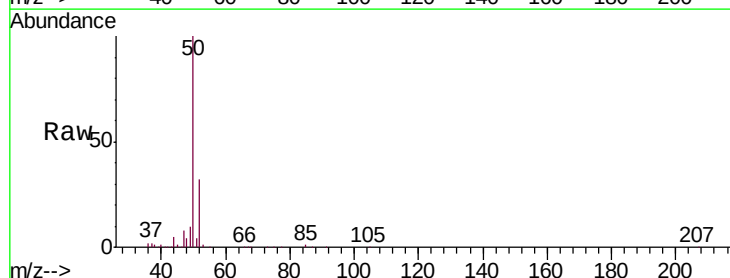
Acq: 02 Jul 2019 17:50

Tgt Ion: 50 Resp: 101696

Ion Ratio Lower Upper

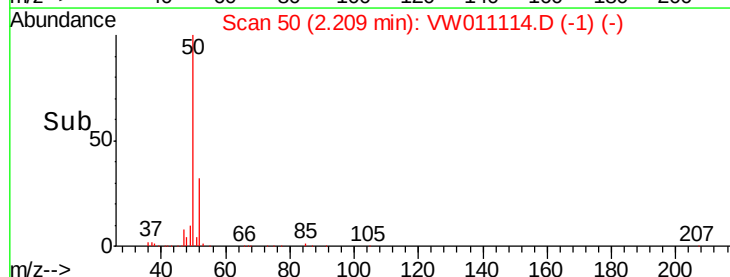
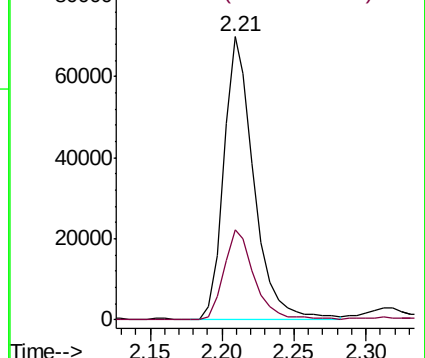
50 100

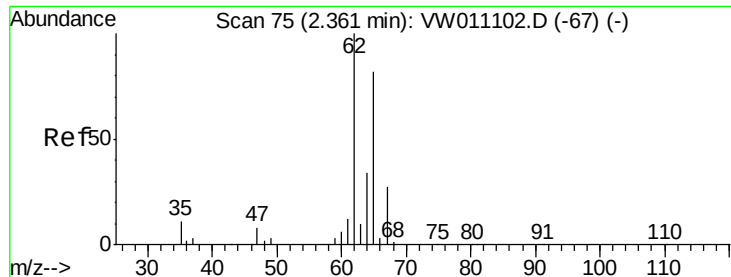
52 31.9 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 23.571 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

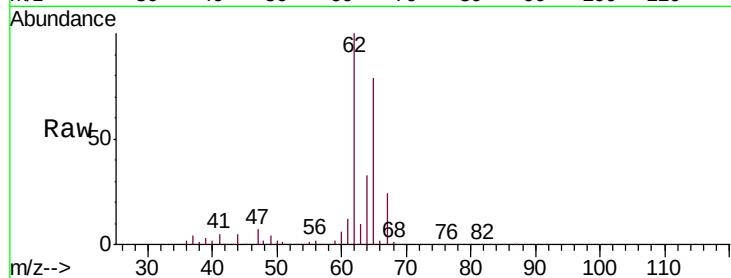
VSTD02513

Tgt Ion: 62 Resp: 139345

Ion Ratio Lower Upper

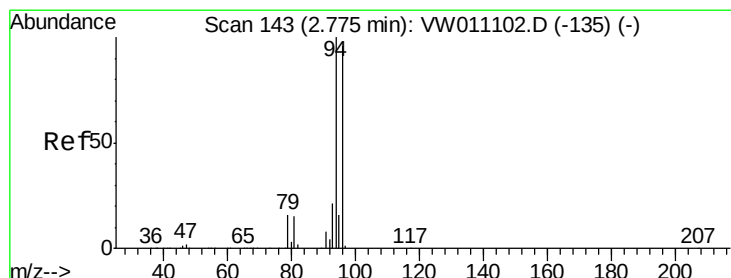
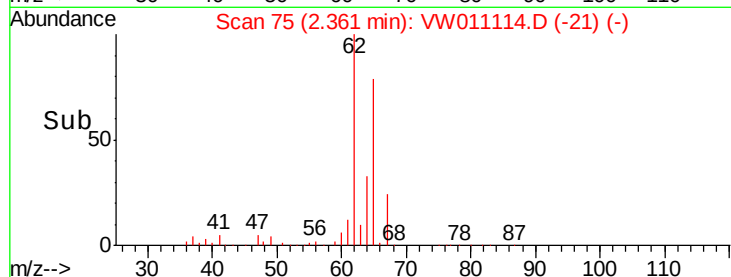
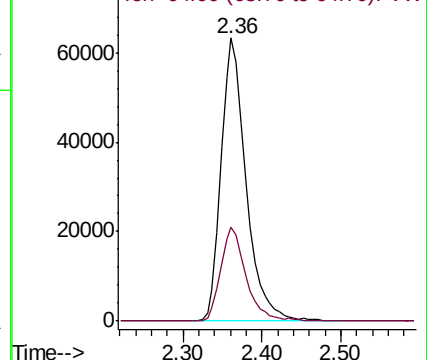
62 100

64 33.1 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 23.525 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW011114.D

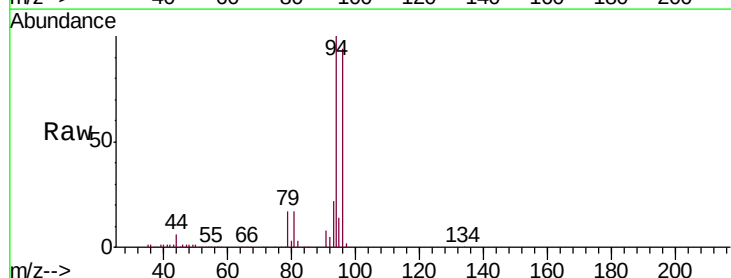
Acq: 02 Jul 2019 17:50

Tgt Ion: 94 Resp: 65066

Ion Ratio Lower Upper

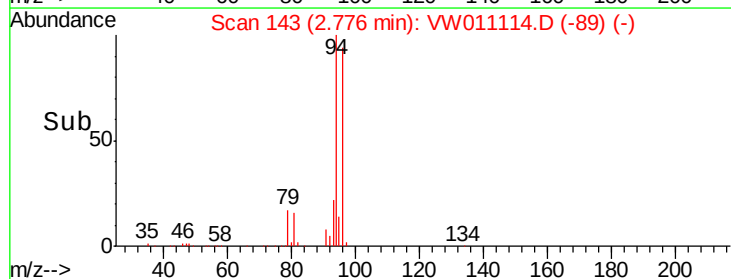
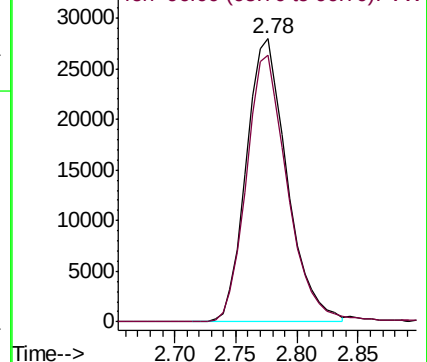
94 100

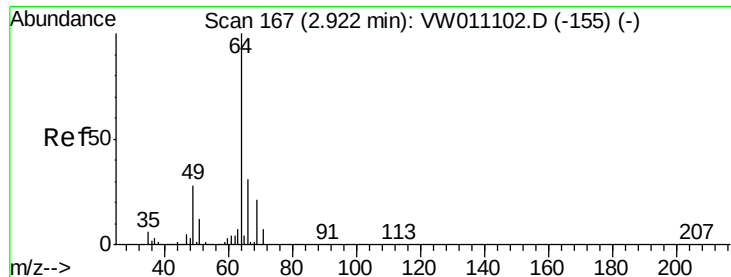
96 94.9 9.3 177.3



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 24.726 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

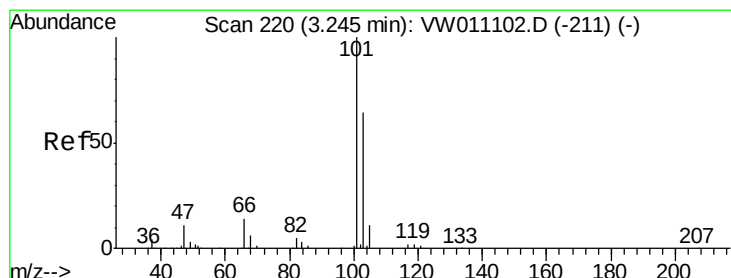
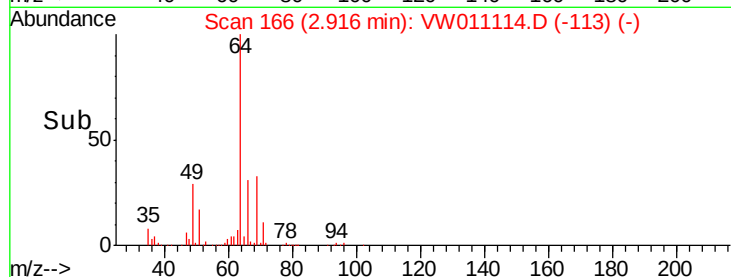
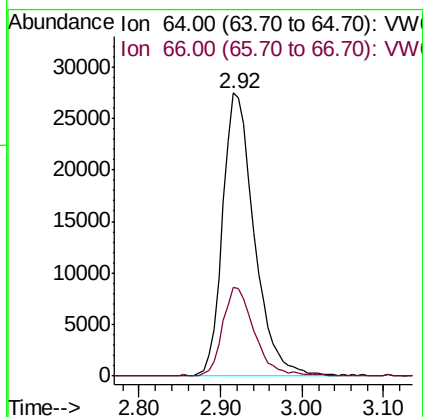
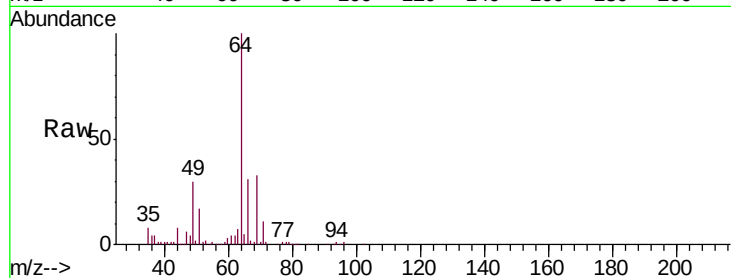
VSTD02513

Tgt Ion: 64 Resp: 73881

Ion Ratio Lower Upper

64 100

66 31.4 21.9 40.7



#9

Trichlorofluoromethane

Concen: 21.141 ug/L

RT: 3.25 min Scan# 220

Delta R.T. 0.00 min

Lab File: VW011114.D

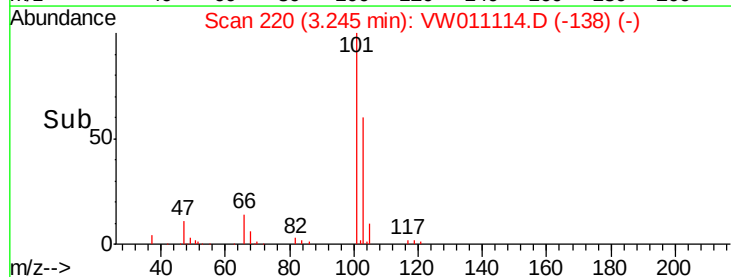
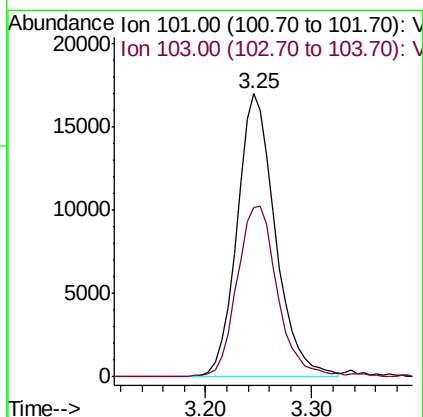
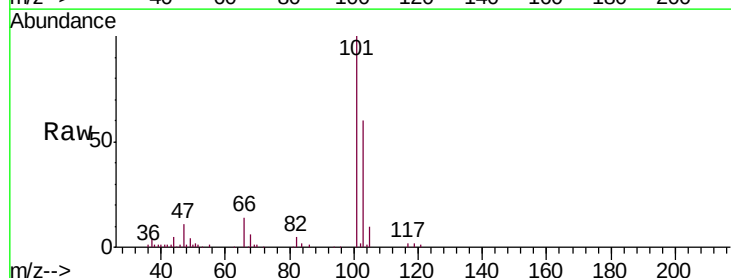
Acq: 02 Jul 2019 17:50

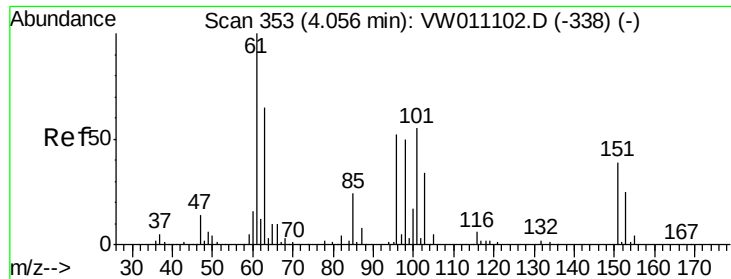
Tgt Ion: 101 Resp: 42791

Ion Ratio Lower Upper

101 100

103 63.9 44.6 82.8





#11

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

Concen: 24.213 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW011114.D

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Instrument :

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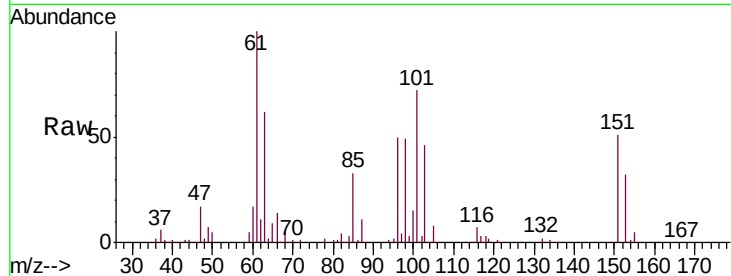
Tgt Ion: 101 Resp: 109200

Ion Ratio Lower Upper

101 100

85 43.3 33.8 50.8

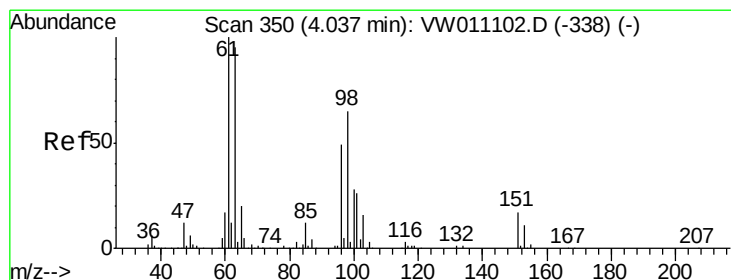
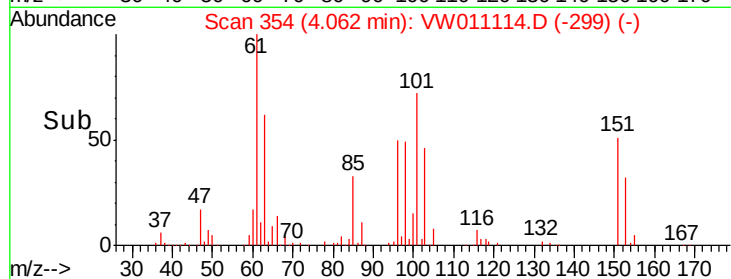
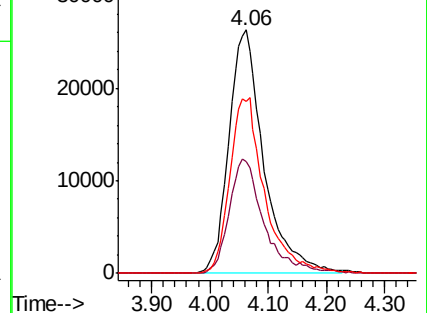
151 69.5 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 24.185 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW011114.D

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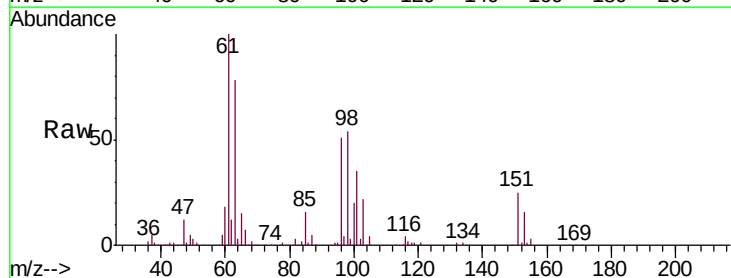
Tgt Ion: 96 Resp: 107808

Ion Ratio Lower Upper

96 100

61 195.8 142.2 264.0

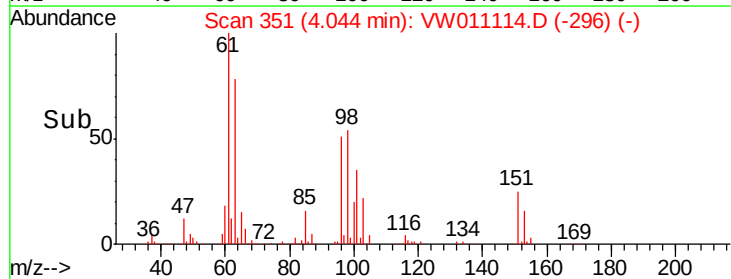
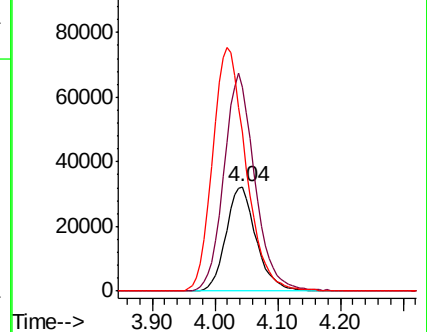
63 152.7 138.9 257.9

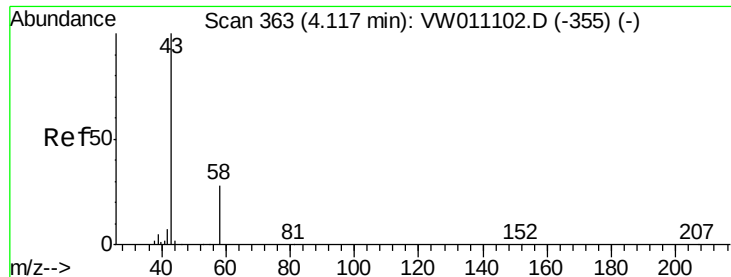


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 43.666 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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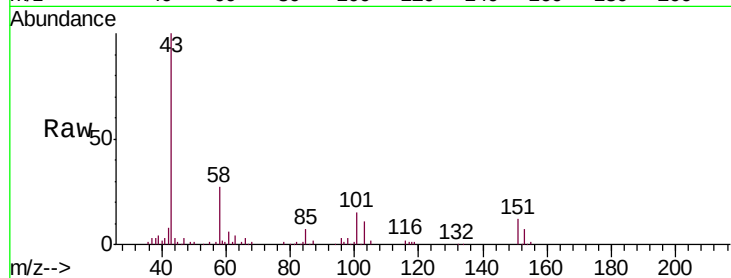
VSTD02513

Tgt Ion: 43 Resp: 87020

Ion Ratio Lower Upper

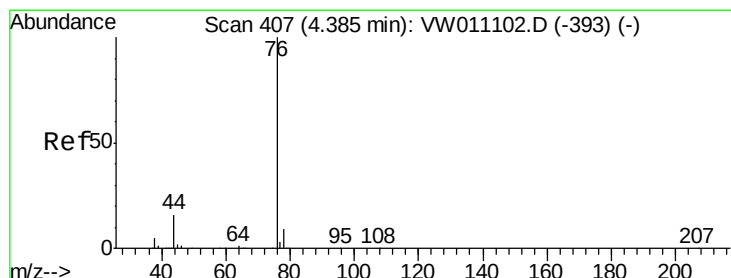
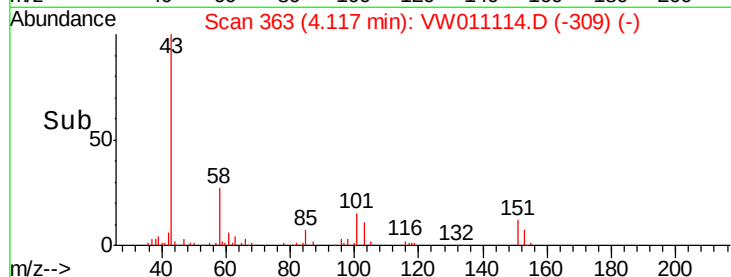
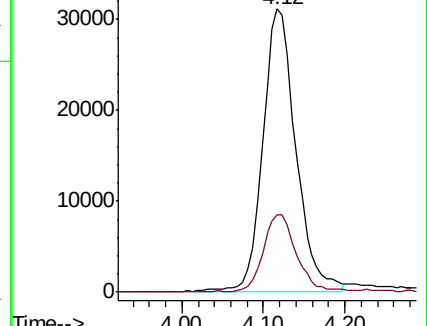
43 100

58 27.5 0.0 55.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 23.230 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW011114.D

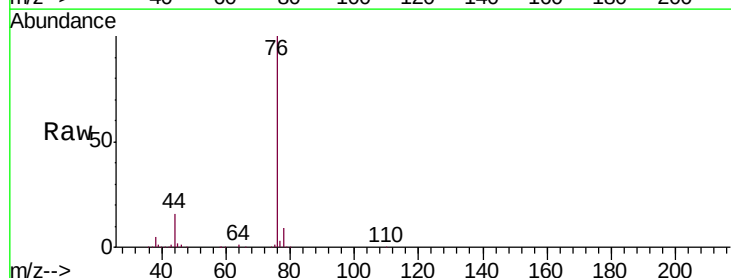
Acq: 02 Jul 2019 17:50

Tgt Ion: 76 Resp: 296211

Ion Ratio Lower Upper

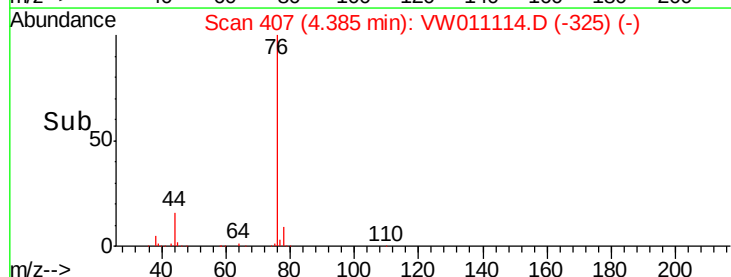
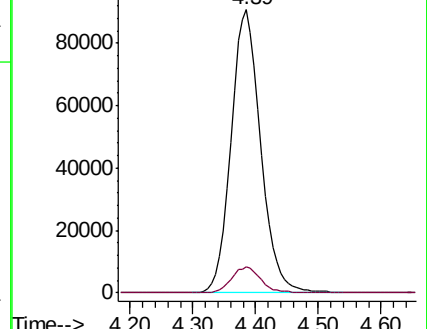
76 100

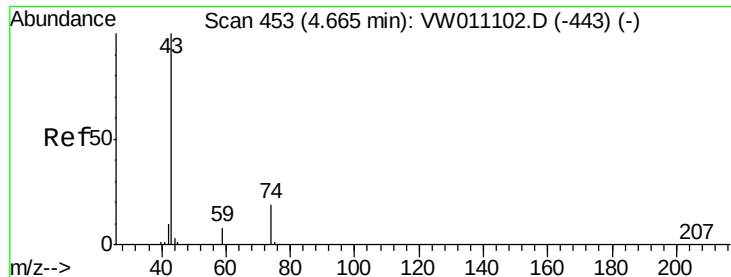
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

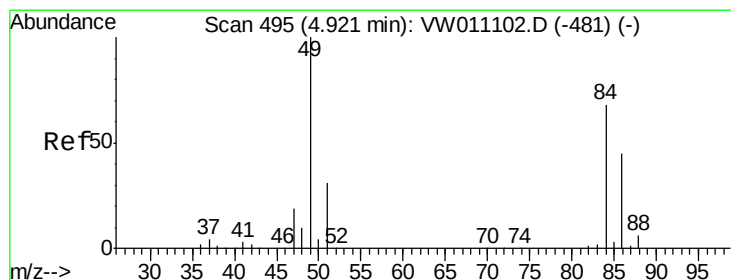
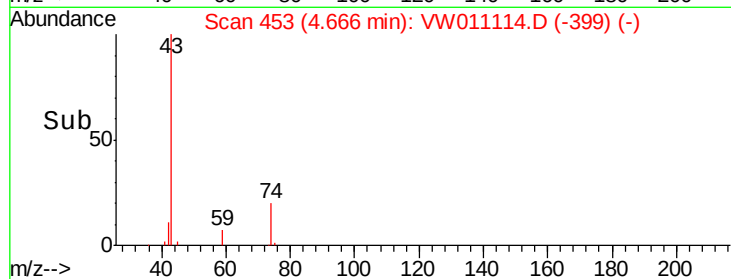
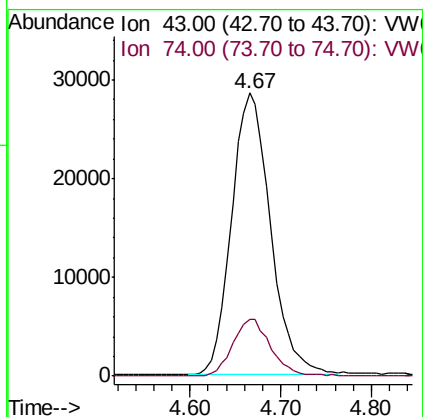
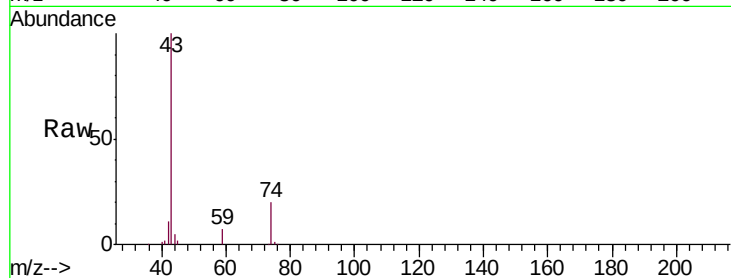




#15
Methyl Acetate
Concen: 26.166 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

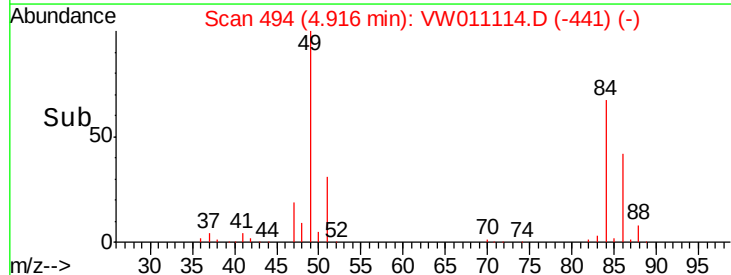
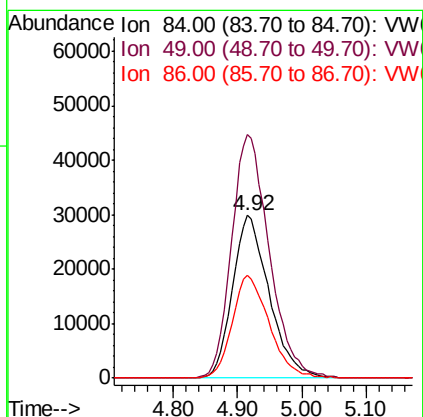
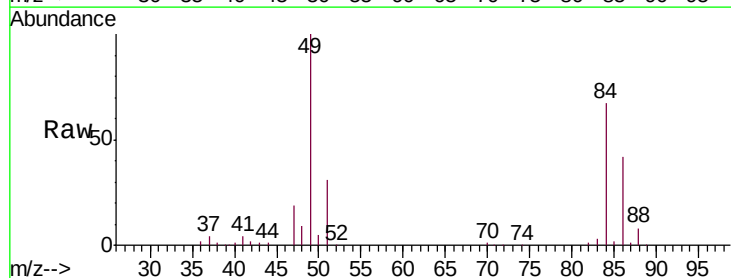
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

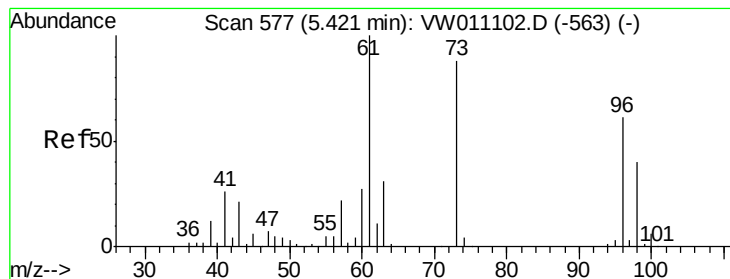
Tgt Ion: 43 Resp: 84850
Ion Ratio Lower Upper
43 100
74 19.4 15.1 22.7



#16
Methylene chloride
Concen: 23.688 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

Tgt Ion: 84 Resp: 118076
Ion Ratio Lower Upper
84 100
49 150.0 102.5 190.3
86 63.2 46.4 86.2





#17

Methyl tert-butyl Ether

Concen: 25.922 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

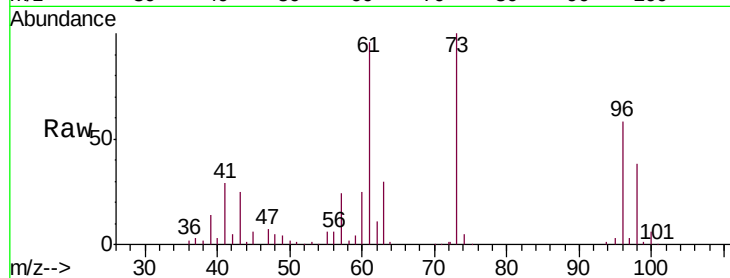
Tgt Ion: 73 Resp: 179196

Ion Ratio Lower Upper

73 100

43 24.9 20.2 30.2

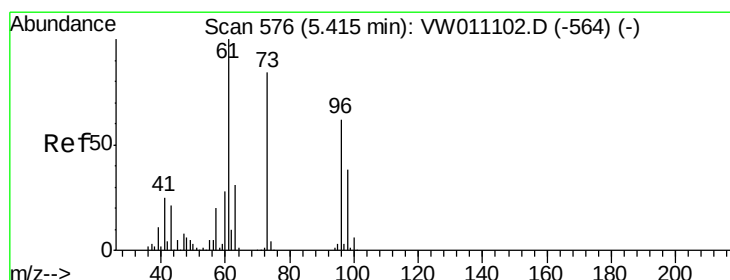
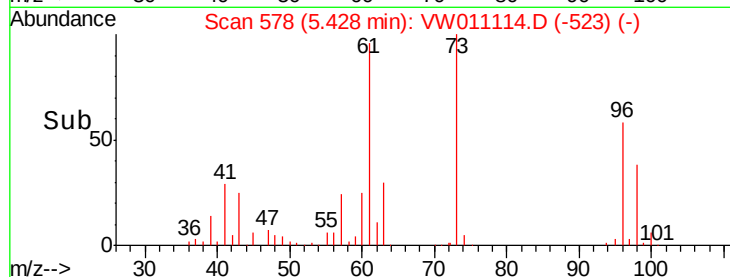
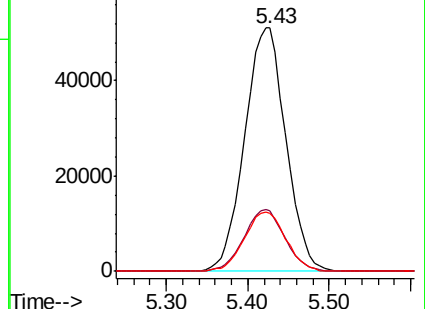
57 24.4 19.6 29.4



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 23.824 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

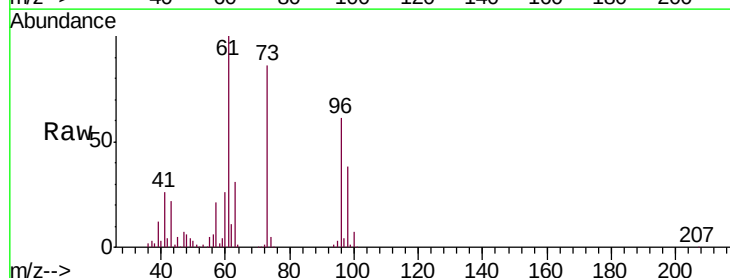
Tgt Ion: 96 Resp: 107314

Ion Ratio Lower Upper

96 100

61 164.6 113.7 211.1

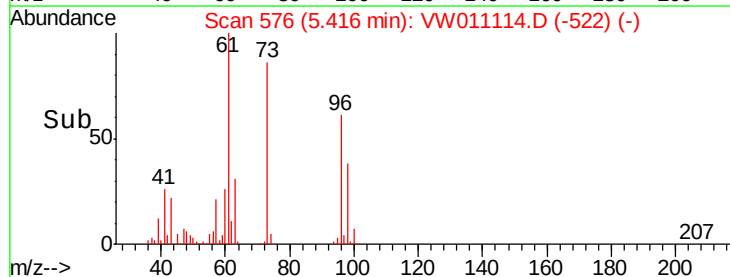
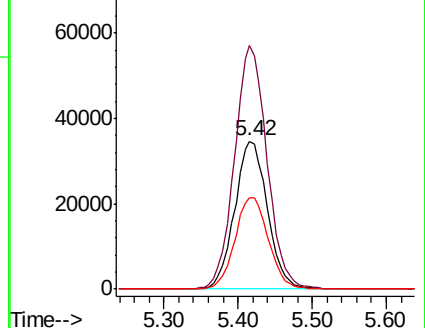
98 61.8 43.3 80.3

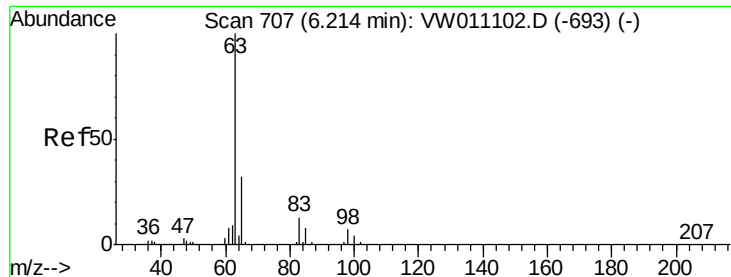


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW

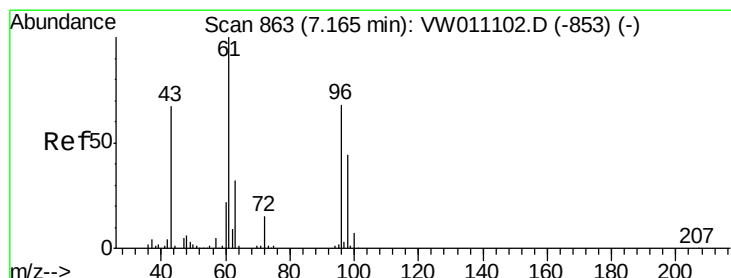
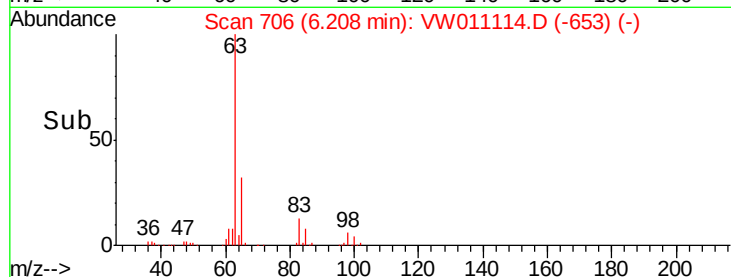
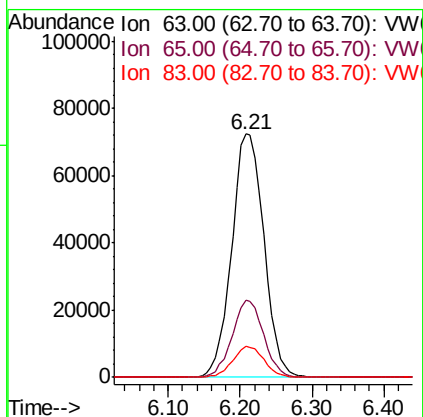
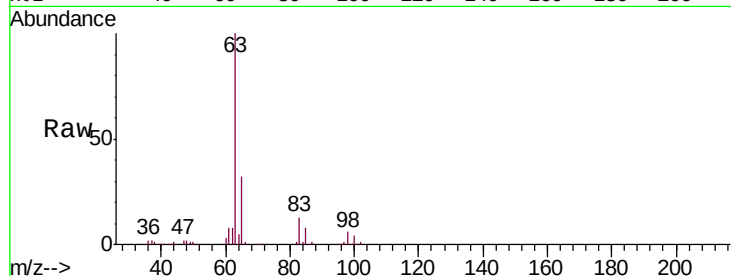




#19
 1,1-Dichloroethane
 Concen: 24.586 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW011114.D
 Acq: 02 Jul 2019 17:50

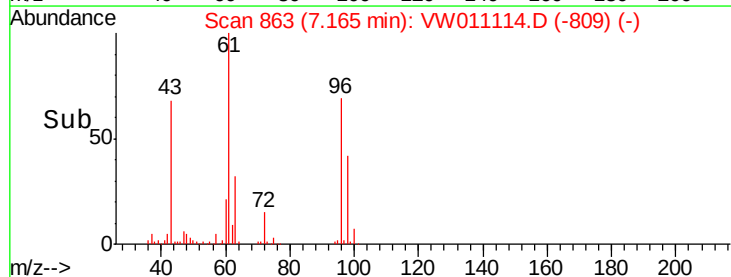
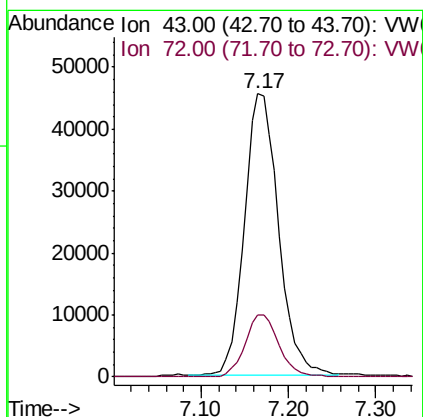
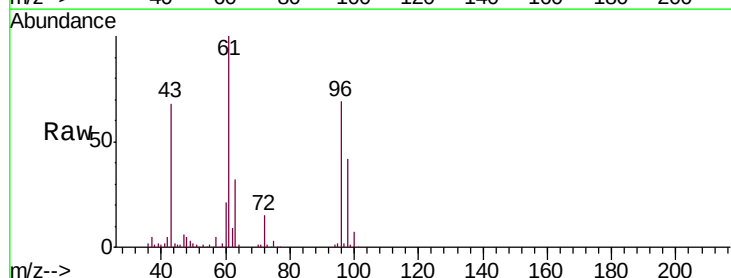
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

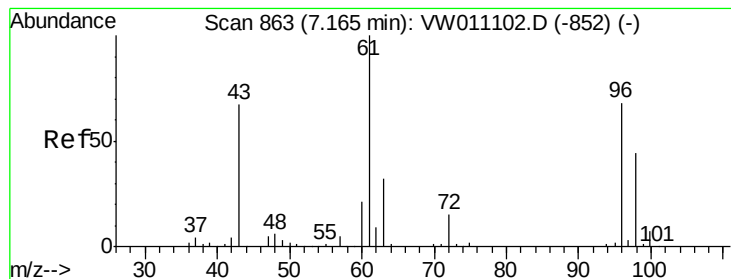
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.8	22.1	41.1
83	12.9	9.0	16.6



#21
 2-Butanone
 Concen: 47.779 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW011114.D
 Acq: 02 Jul 2019 17:50

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	11.2	33.6





#22

cis-1,2-Dichloroethene

Concen: 24.649 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

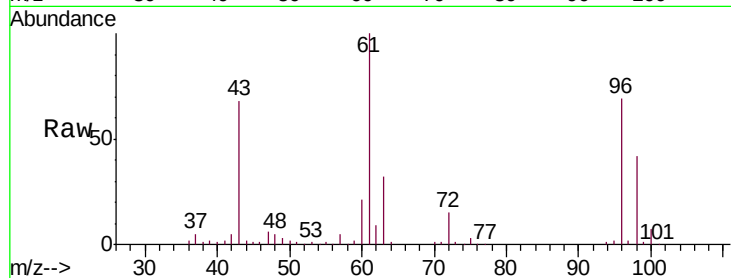
Tgt Ion: 96 Resp: 120185

Ion Ratio Lower Upper

96 100

61 144.0 103.2 191.6

98 60.0 44.8 83.2

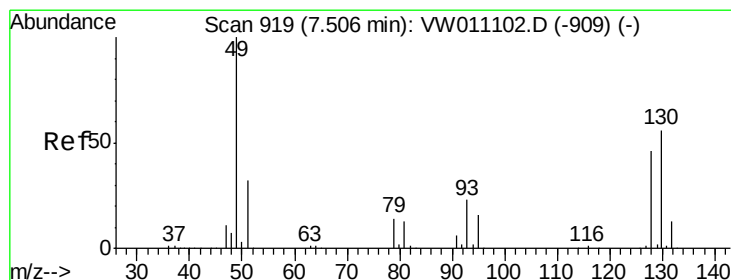
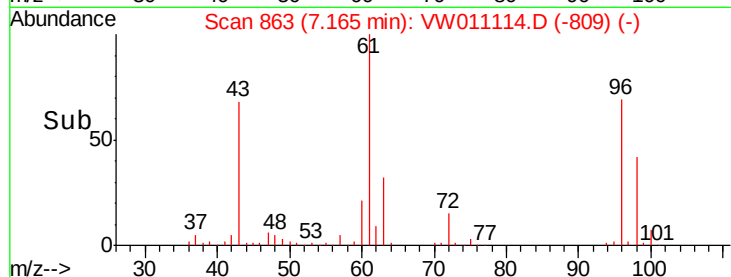
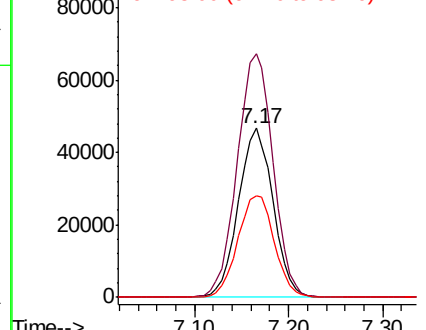


Abundance

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: 25.097 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Tgt Ion: 128 Resp: 51346

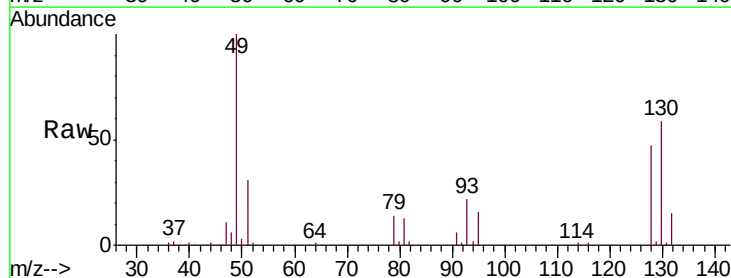
Ion Ratio Lower Upper

128 100

49 213.2 153.8 285.6

130 124.9 86.4 160.4

51 66.0 56.2 84.4



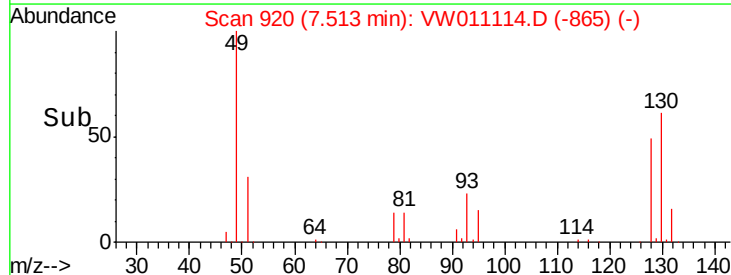
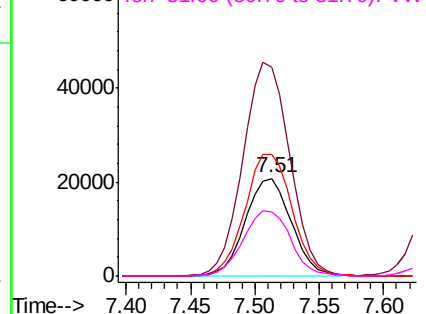
Abundance

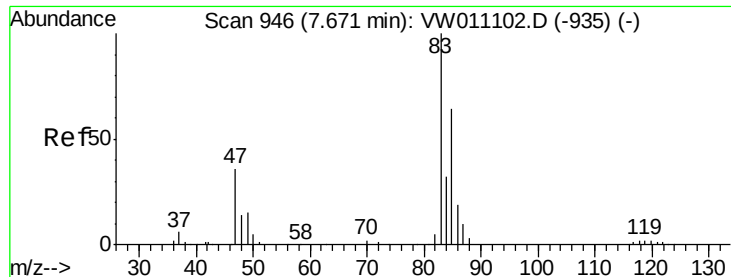
Ion 128.00 (127.70 to 128.70): V

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

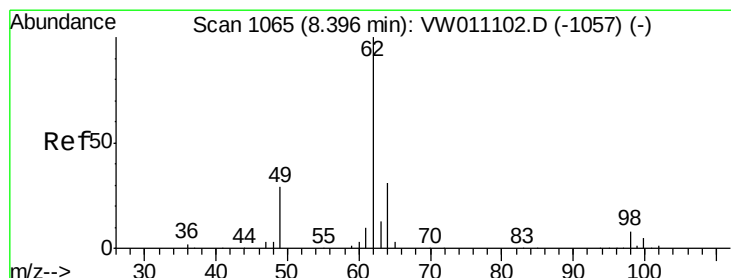
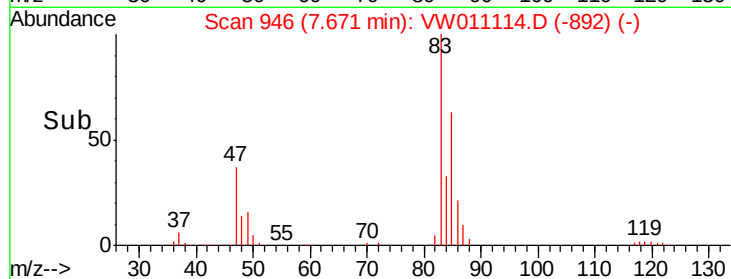
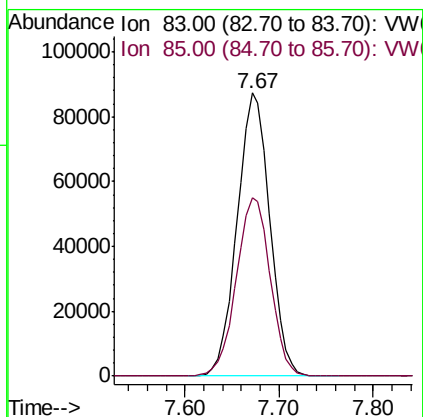
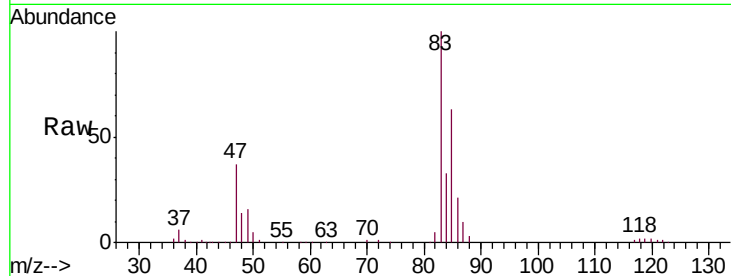




#25
Chloroform
Concen: 24.248 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

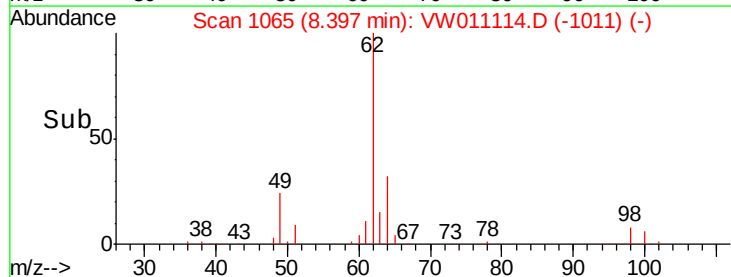
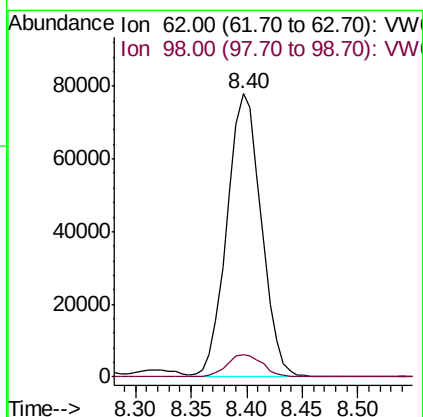
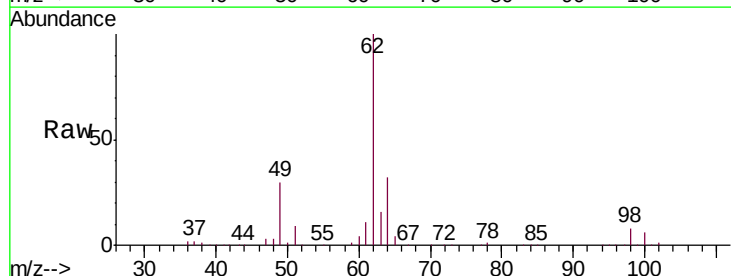
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

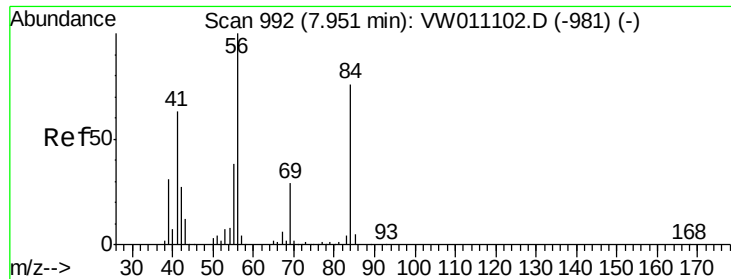
Tgt Ion: 83 Resp: 210035
Ion Ratio Lower Upper
83 100
85 65.5 45.6 84.6



#27
1,2-Dichloroethane
Concen: 25.211 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

Tgt Ion: 62 Resp: 166932
Ion Ratio Lower Upper
62 100
98 8.0 6.6 10.0

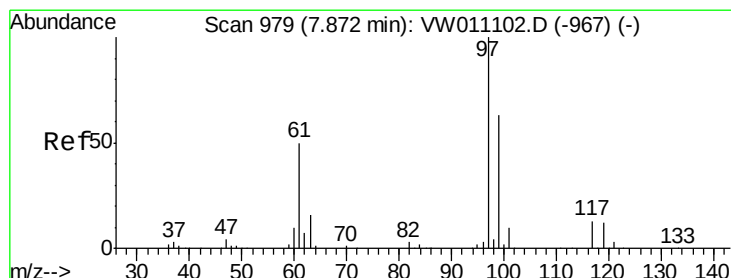
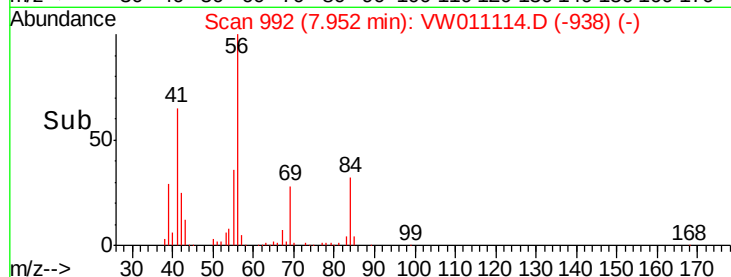
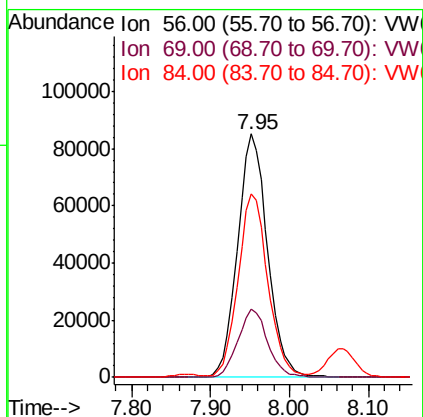
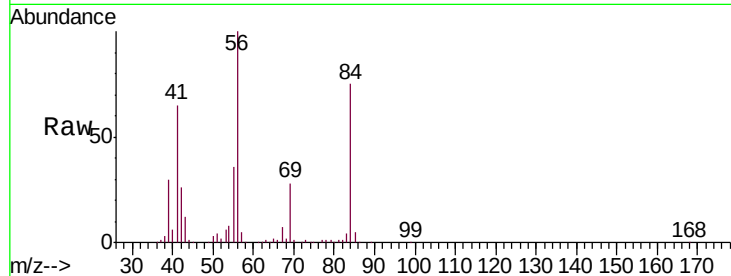




#30
Cyclohexane
Concen: 23.749 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

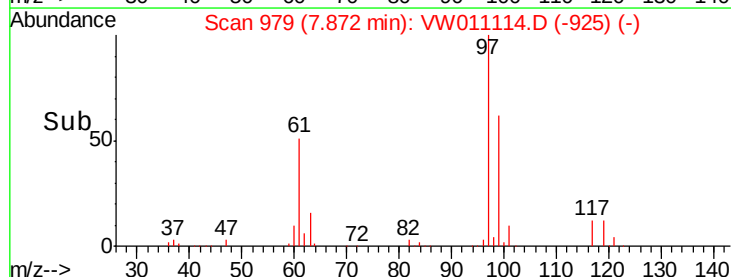
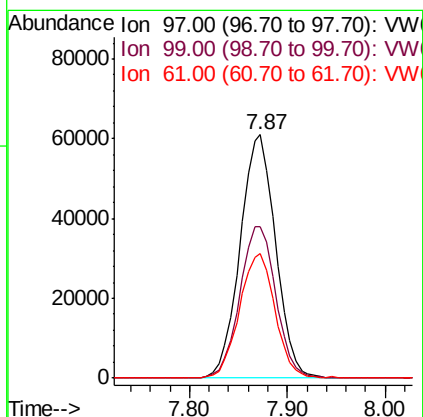
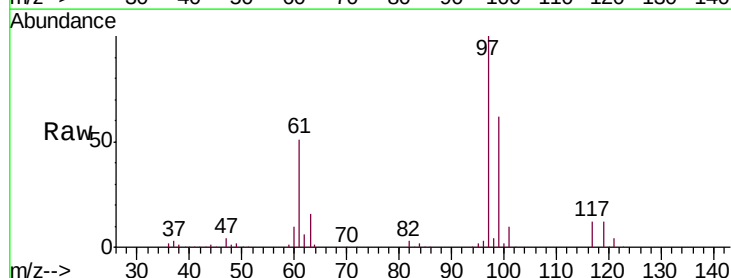
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

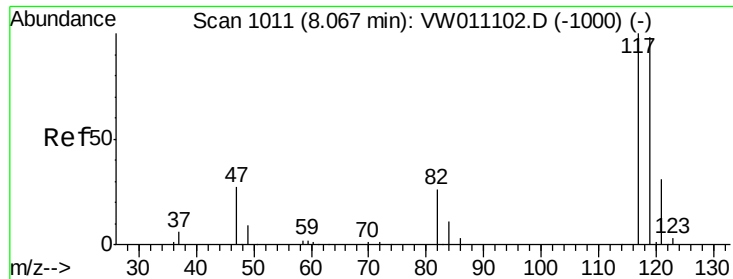
Tgt Ion: 56 Resp: 224719
Ion Ratio Lower Upper
56 100
69 27.8 22.5 33.7
84 75.2 60.9 91.3



#31
1,1,1-Trichloroethane
Concen: 23.860 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

Tgt Ion: 97 Resp: 154117
Ion Ratio Lower Upper
97 100
99 63.3 50.6 75.8
61 51.4 40.9 61.3





#32

Carbon tetrachloride

Concen: 23.725 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

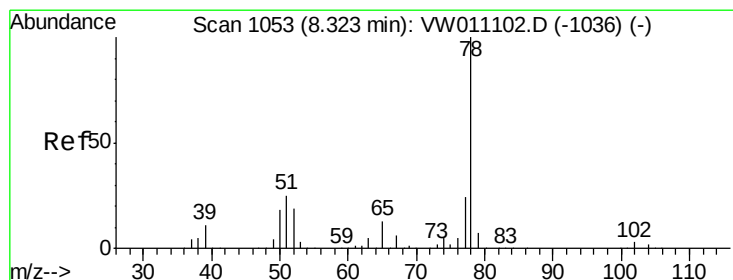
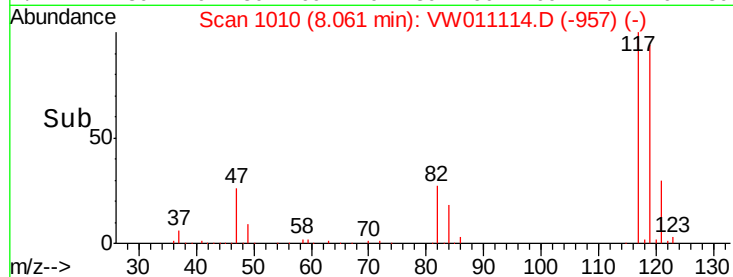
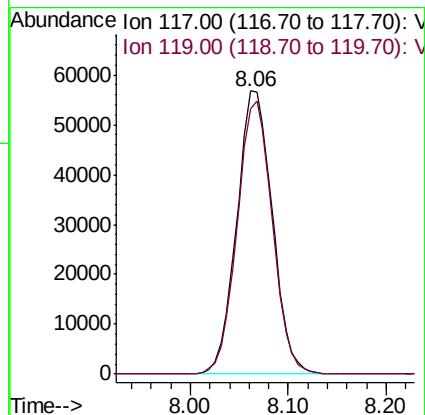
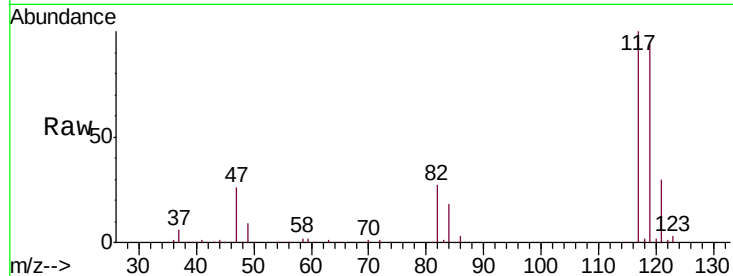
VSTD02513

Tgt Ion:117 Resp: 143721

Ion Ratio Lower Upper

117 100

119 95.4 77.4 116.0



#34

Benzene

Concen: 24.258 ug/L

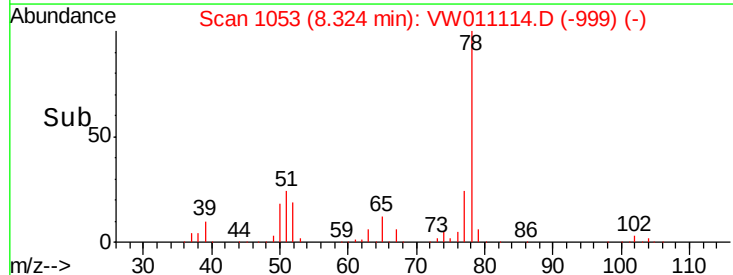
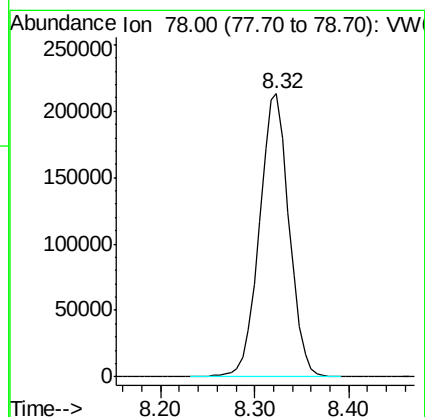
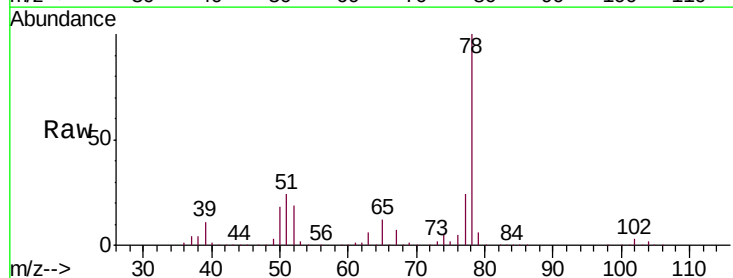
RT: 8.32 min Scan# 1053

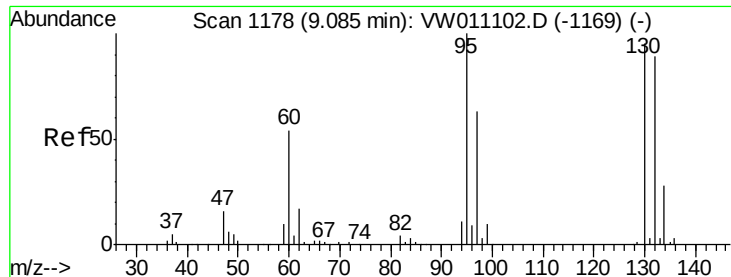
Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Tgt Ion: 78 Resp: 471842





#35

Trichloroethene

Concen: 23.849 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

Tgt Ion: 95 Resp: 117061

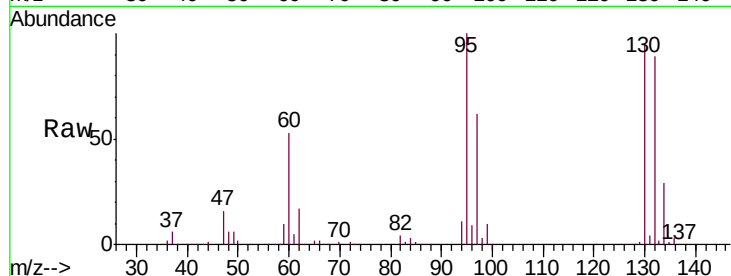
Ion Ratio Lower Upper

95 100

97 63.4 45.4 84.2

132 91.5 65.0 120.8

130 95.4 67.8 126.0



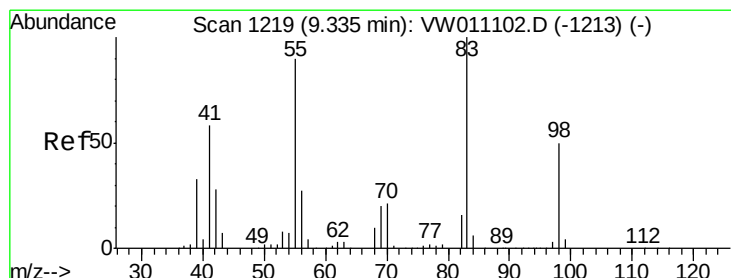
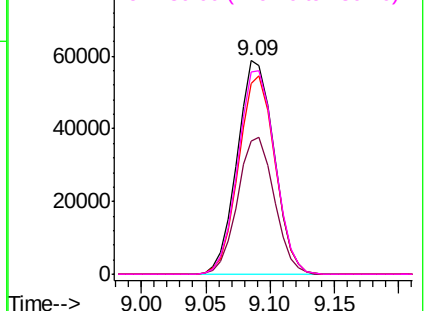
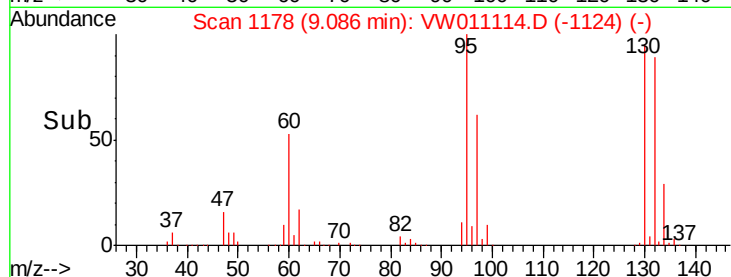
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 23.540 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

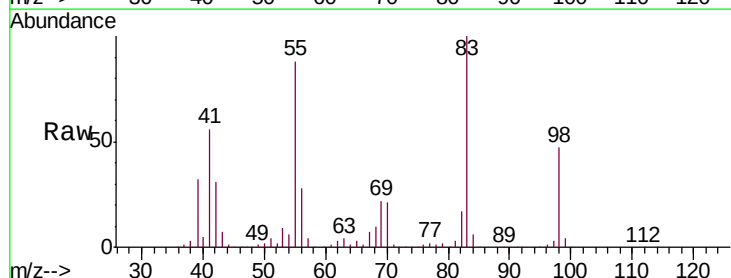
Tgt Ion: 83 Resp: 207932

Ion Ratio Lower Upper

83 100

55 90.9 72.2 108.4

98 47.6 38.2 57.4

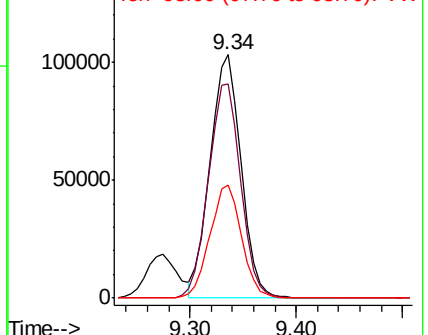
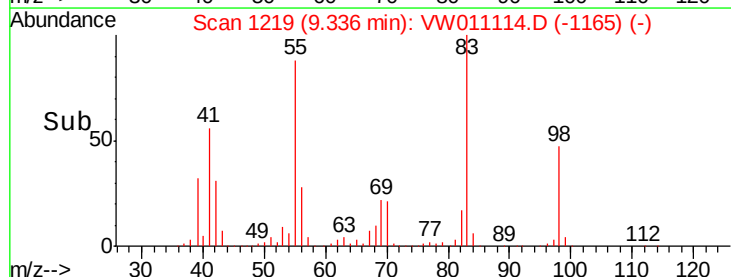


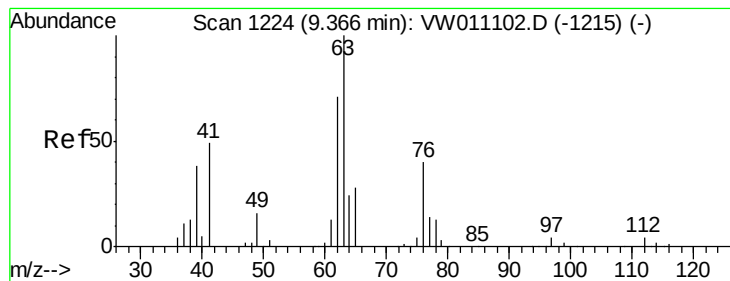
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 24.680 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

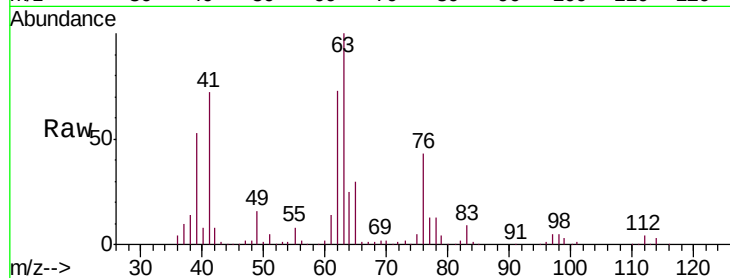
VSTD02513

Tgt Ion: 63 Resp: 131541

Ion Ratio Lower Upper

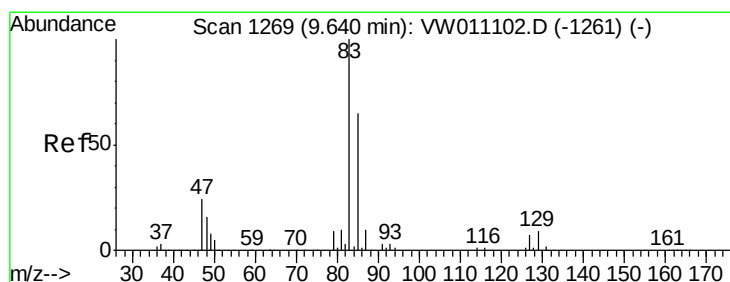
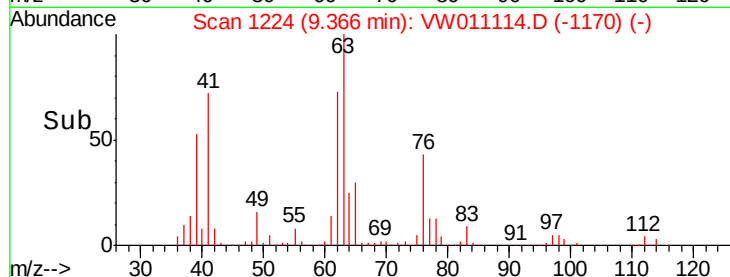
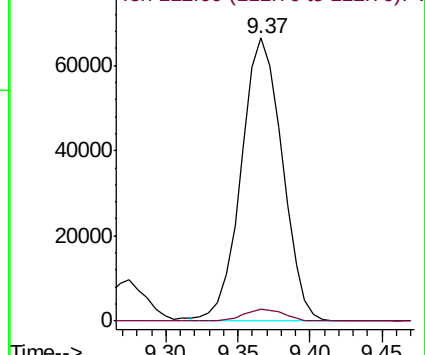
63 100

112 4.1 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 24.859 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

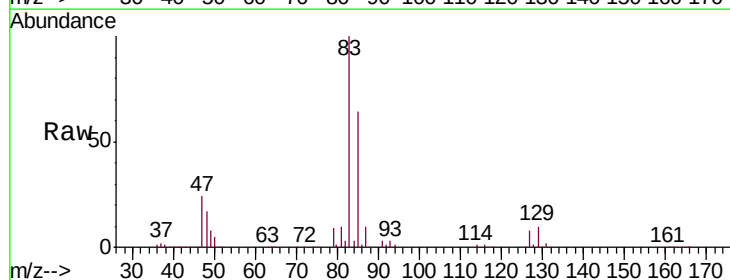
Tgt Ion: 83 Resp: 152759

Ion Ratio Lower Upper

83 100

85 64.4 45.5 84.5

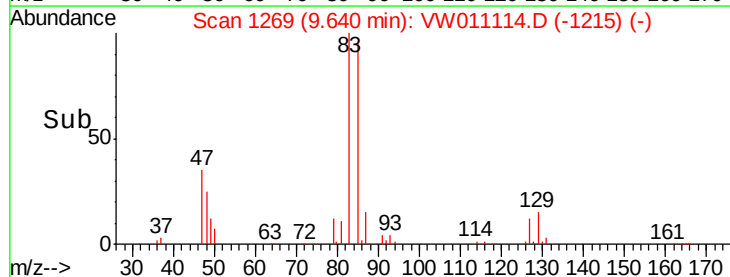
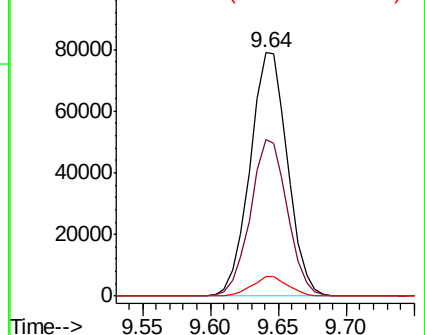
127 7.8 5.8 8.8

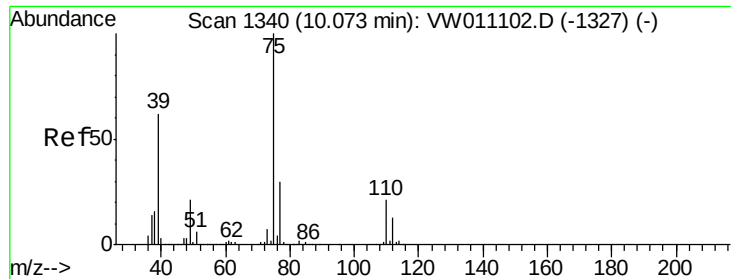


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 25.497 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

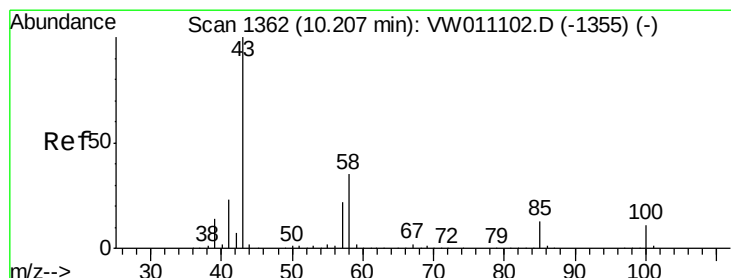
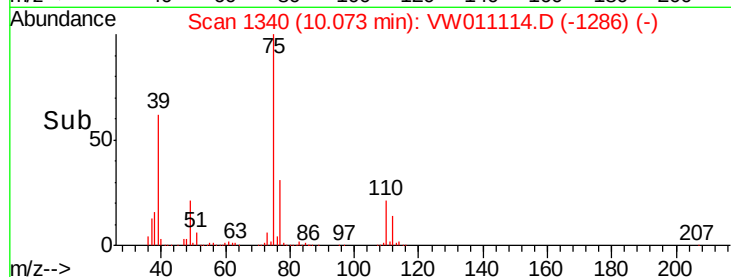
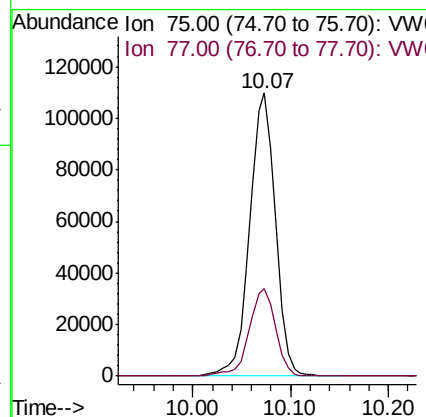
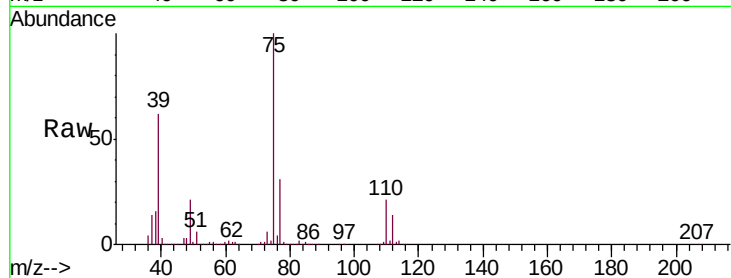
VSTD02513

Tgt Ion: 75 Resp: 200516

Ion Ratio Lower Upper

75 100

77 31.0 21.1 39.1



#43

4-Methyl-2-pentanone

Concen: 51.580 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

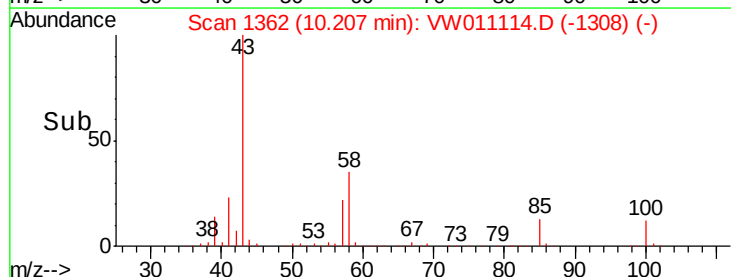
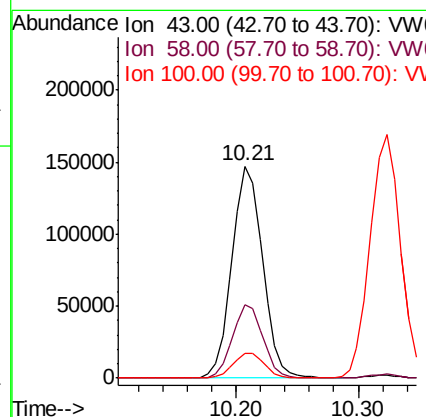
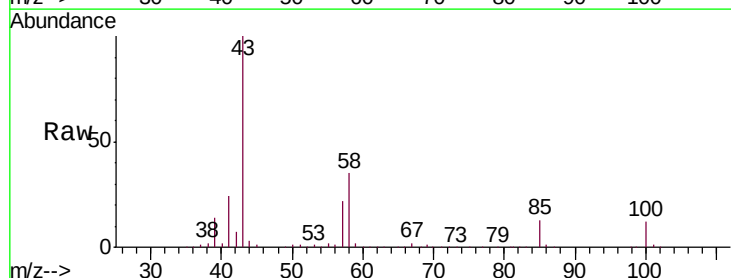
Tgt Ion: 43 Resp: 254849

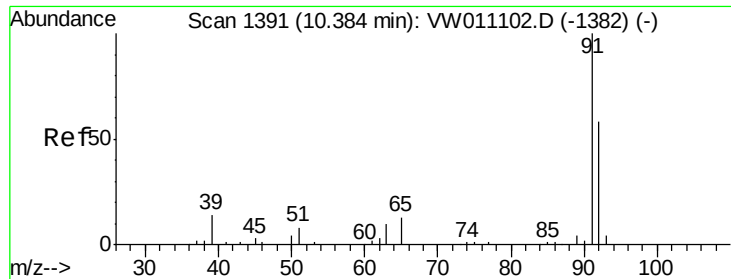
Ion Ratio Lower Upper

43 100

58 34.7 28.1 42.1

100 11.9 9.3 13.9





#44

Toluene

Concen: 24.466 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampled :

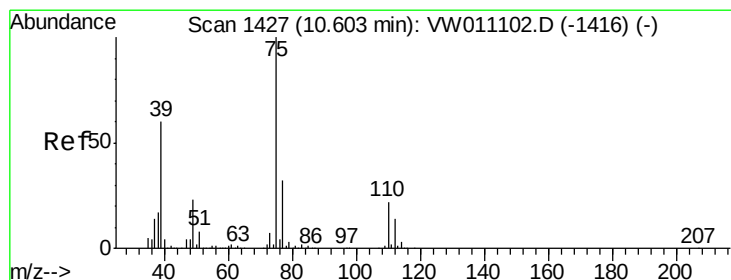
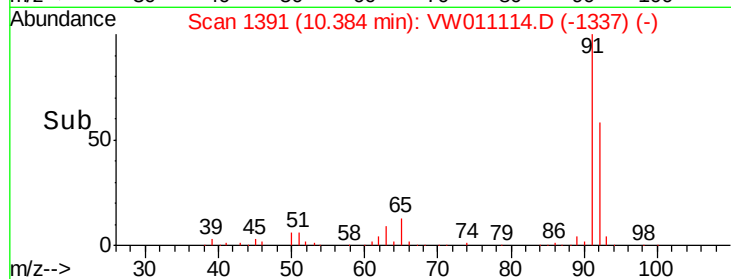
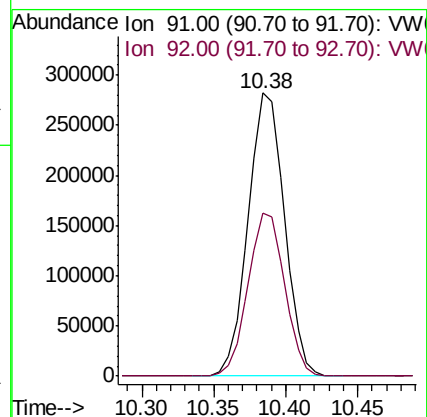
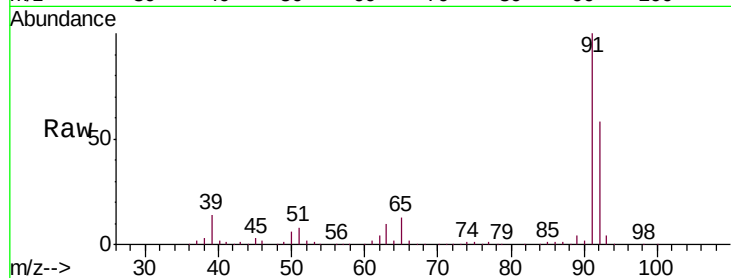
VSTD02513

Tgt Ion: 91 Resp: 492577

Ion Ratio Lower Upper

91 100

92 57.8 40.8 75.8



#45

trans-1,3-Dichloropropene

Concen: 25.538 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011114.D

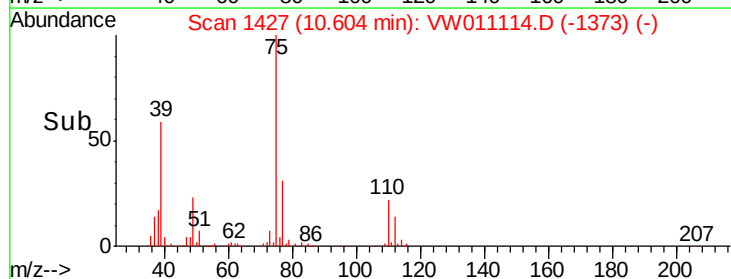
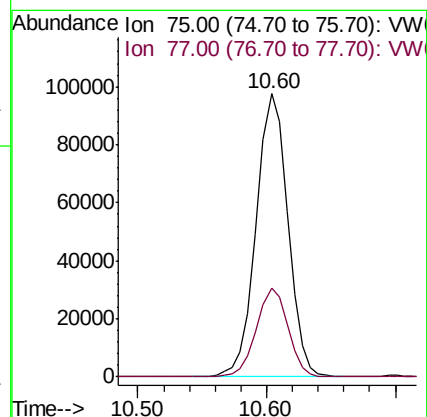
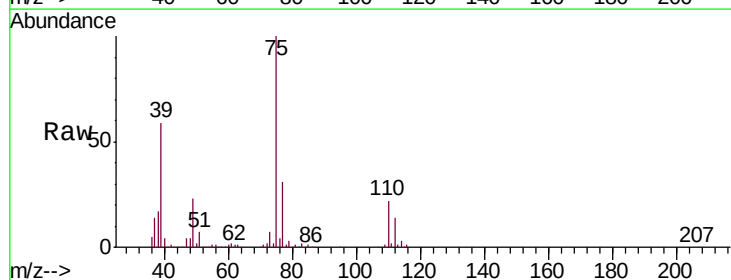
Acq: 02 Jul 2019 17:50

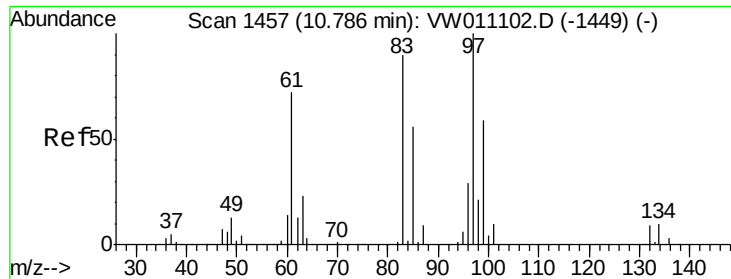
Tgt Ion: 75 Resp: 166179

Ion Ratio Lower Upper

75 100

77 31.4 22.3 41.5





#46

1,1,2-Trichloroethane

Concen: 25.078 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

Tgt Ion: 97 Resp: 92562

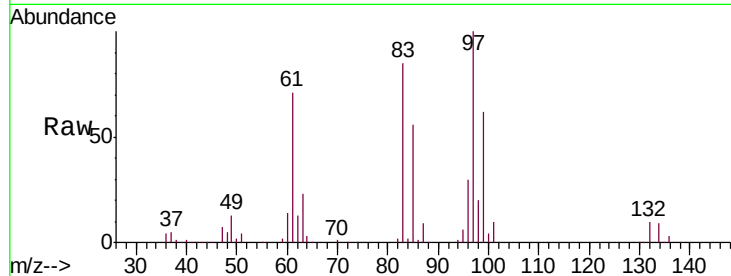
Ion Ratio Lower Upper

97 100

83 85.3 63.1 117.3

85 56.1 39.0 72.4

99 61.5 41.5 77.1



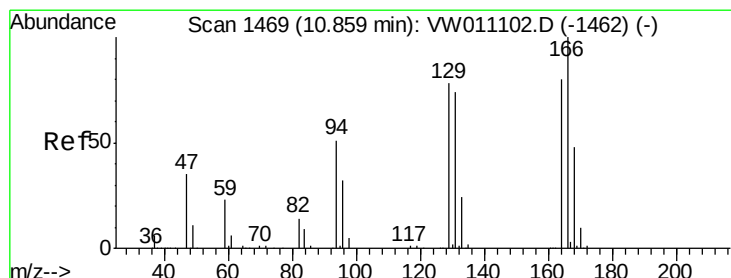
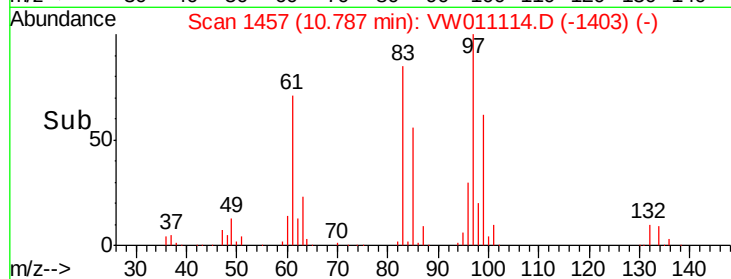
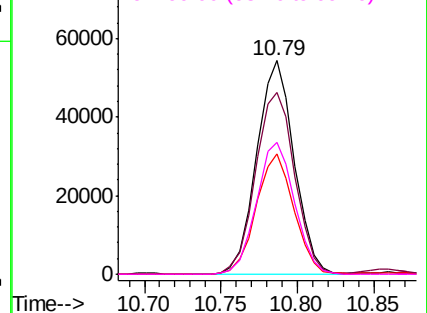
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 23.456 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Tgt Ion: 164 Resp: 87015

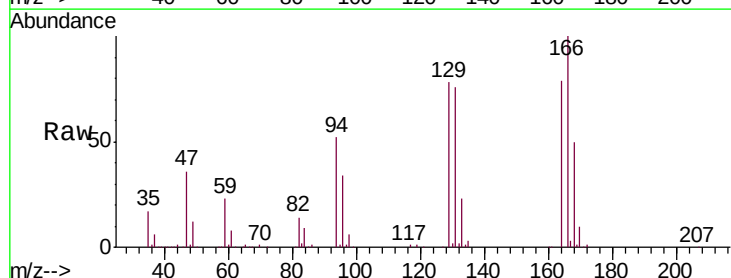
Ion Ratio Lower Upper

164 100

129 99.1 68.5 127.1

131 95.6 64.8 120.4

166 126.3 87.9 163.3



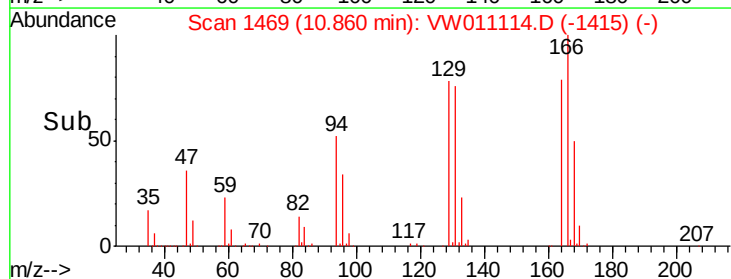
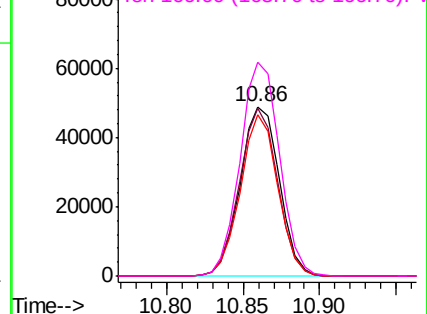
Abundance

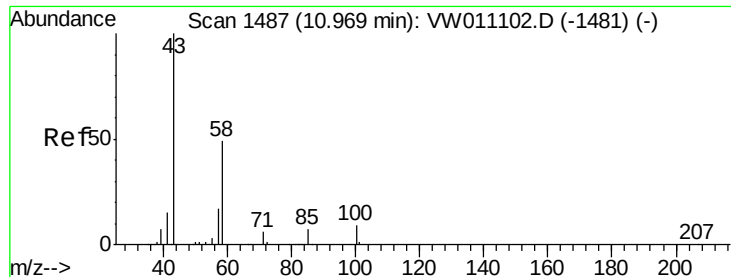
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

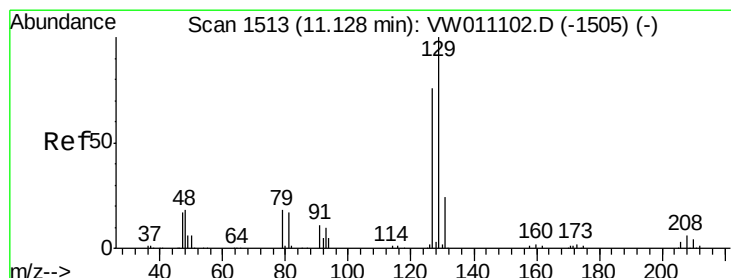
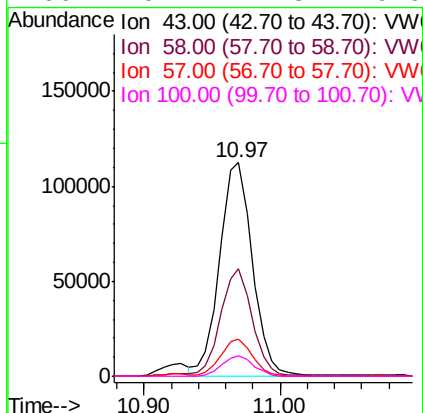
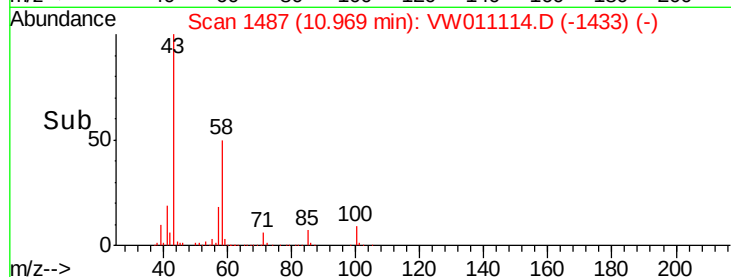
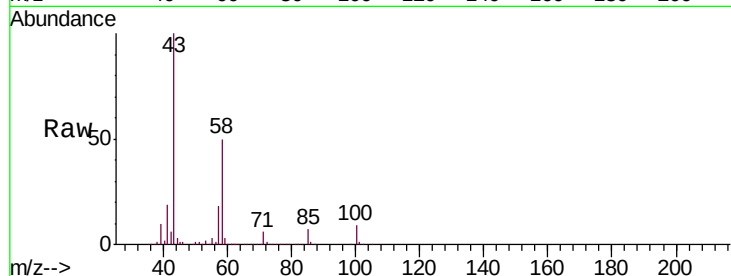




#49
2-Hexanone
Concen: 52.407 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

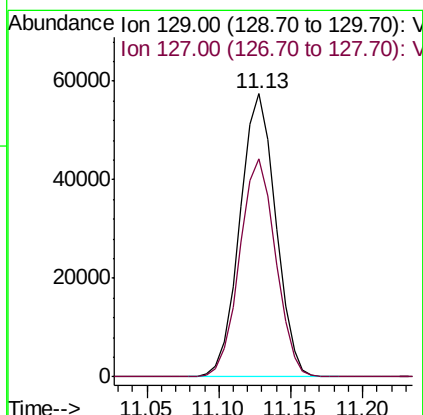
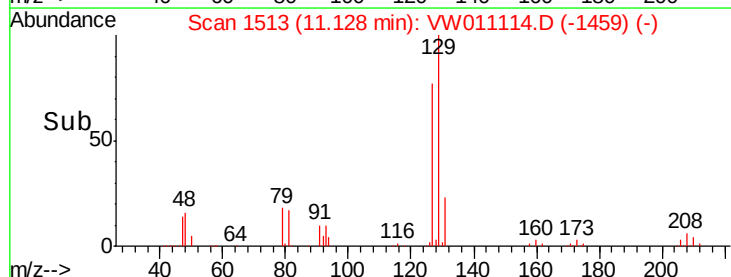
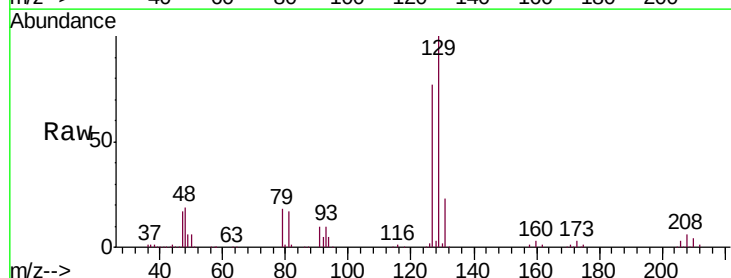
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

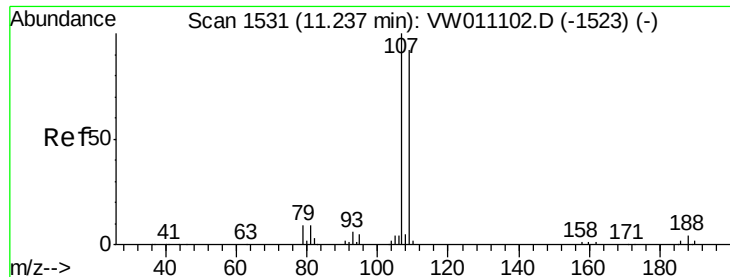
Tgt Ion: 43 Resp: 188477
Ion Ratio Lower Upper
43 100
58 48.7 38.4 57.6
57 17.1 13.3 19.9
100 9.2 7.3 10.9



#50
Dibromochloromethane
Concen: 25.284 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

Tgt Ion: 129 Resp: 99378
Ion Ratio Lower Upper
129 100
127 77.1 53.3 99.1

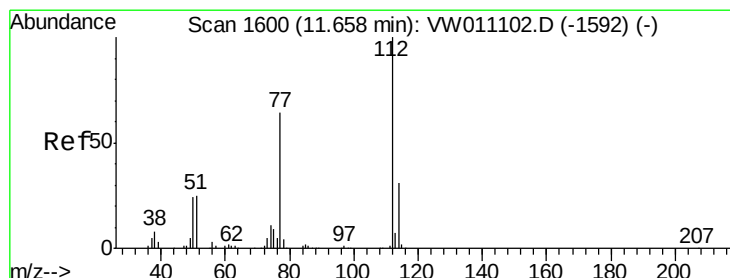
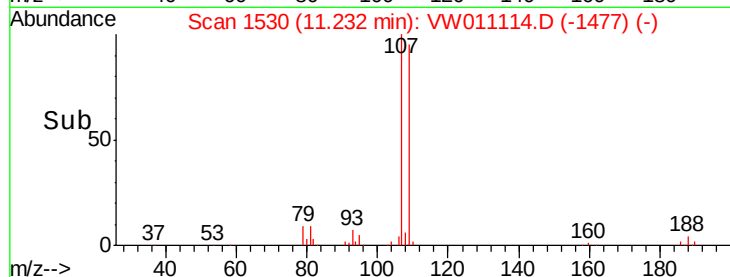
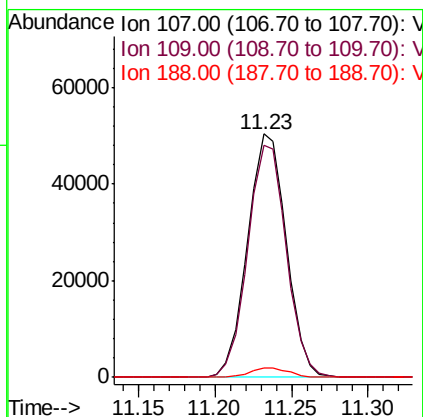
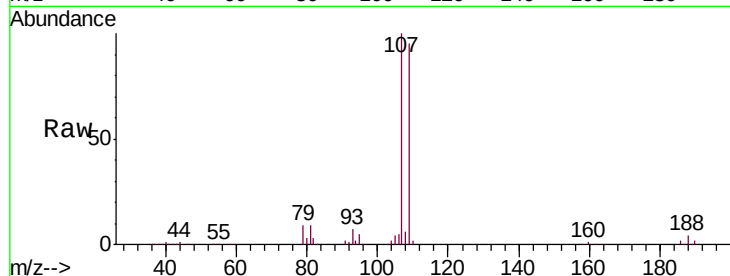




#51
1,2-Dibromoethane
Concen: 24.926 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.01 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

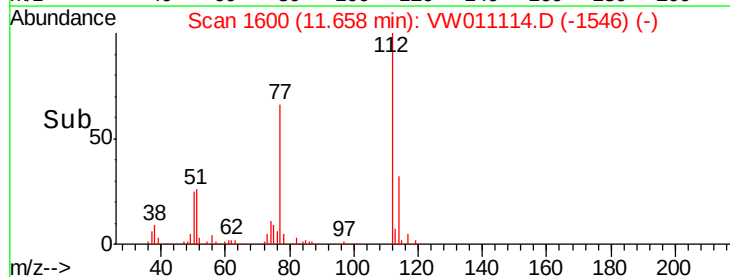
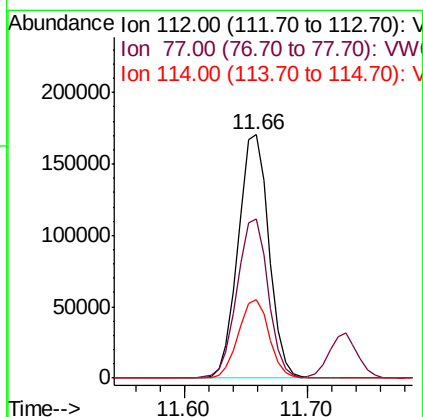
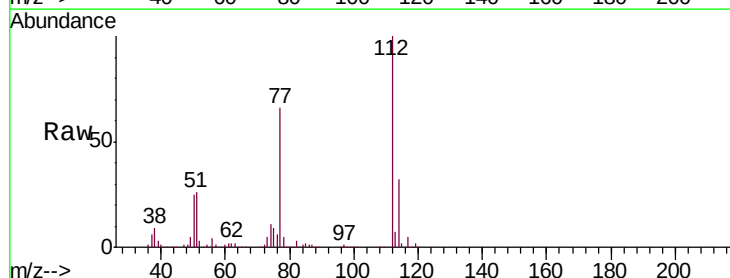
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

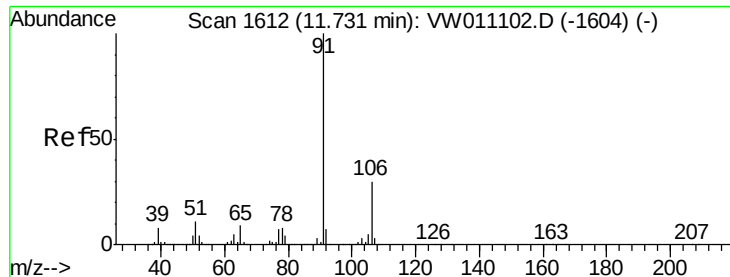
Tgt Ion:107 Resp: 88834
Ion Ratio Lower Upper
107 100
109 95.2 64.3 119.3
188 4.0 3.2 4.8



#52
Chlorobenzene
Concen: 24.127 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

Tgt Ion:112 Resp: 296756
Ion Ratio Lower Upper
112 100
77 65.6 51.2 76.8
114 32.5 22.0 40.8





#53

Ethylbenzene

Concen: 24.463 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

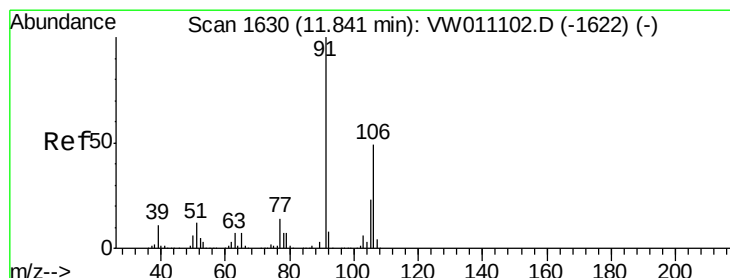
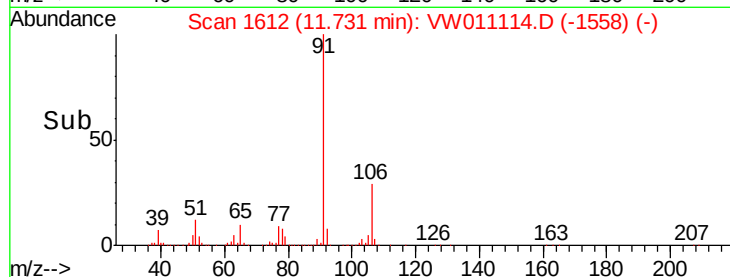
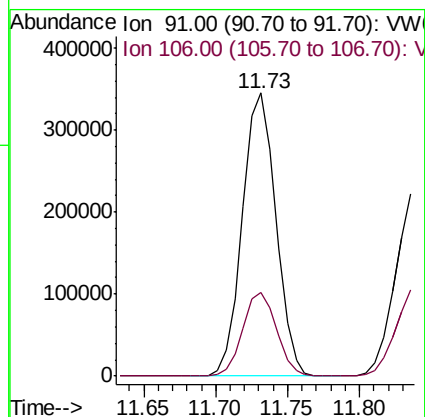
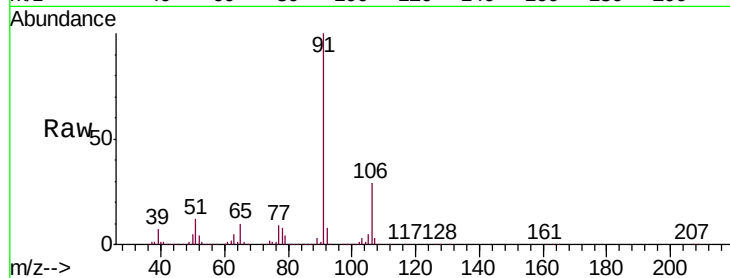
VSTD02513

Tgt Ion: 91 Resp: 558638

Ion Ratio Lower Upper

91 100

106 29.4 20.6 38.4



#54

m,p-Xylene

Concen: 24.415 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW011114.D

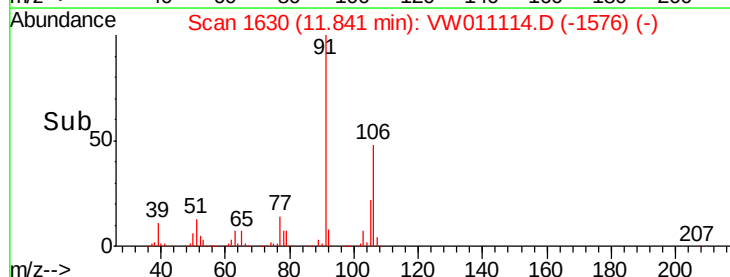
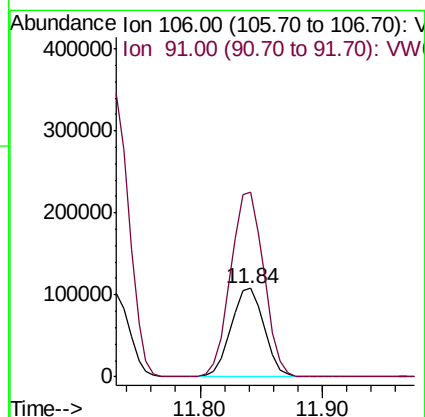
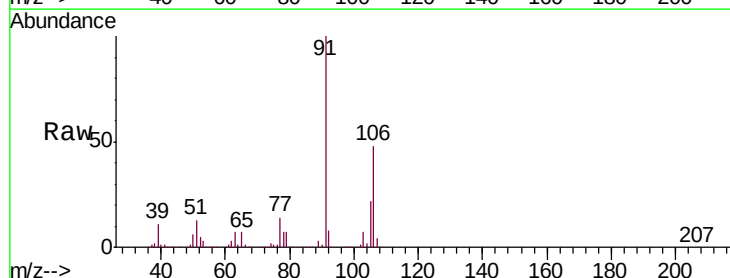
Acq: 02 Jul 2019 17:50

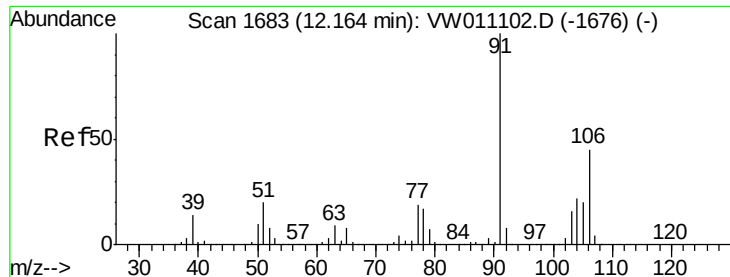
Tgt Ion: 106 Resp: 202432

Ion Ratio Lower Upper

106 100

91 208.9 142.6 264.8

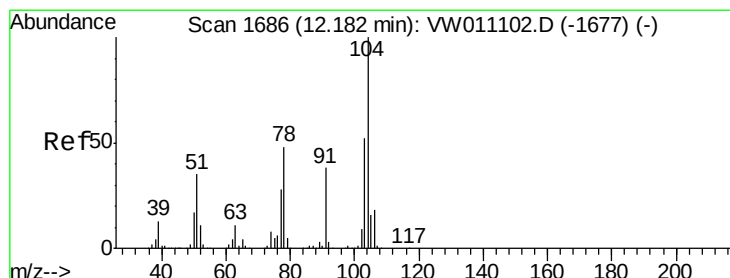
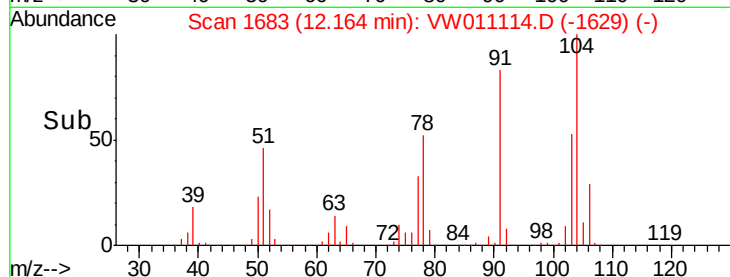
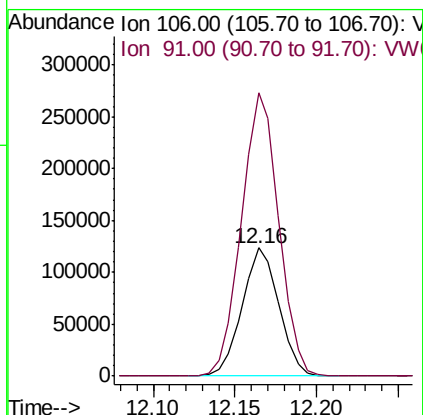
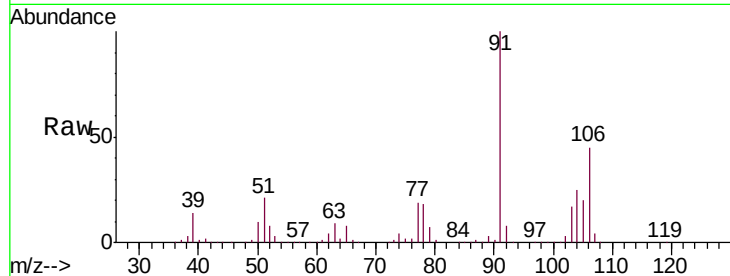




#55
o-xylene
Concen: 24.597 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

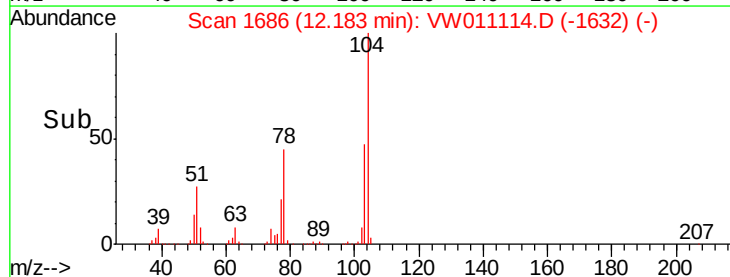
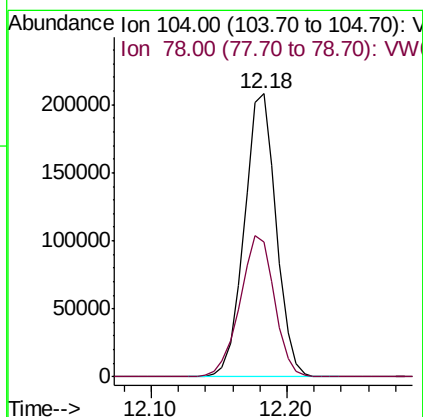
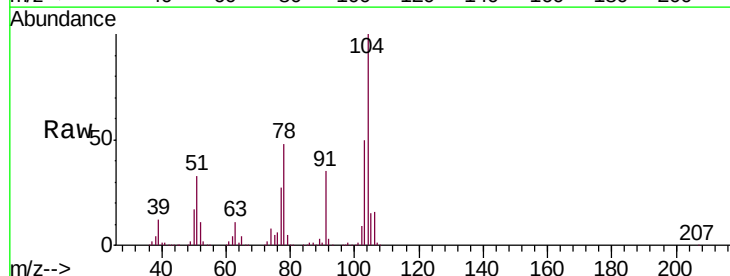
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

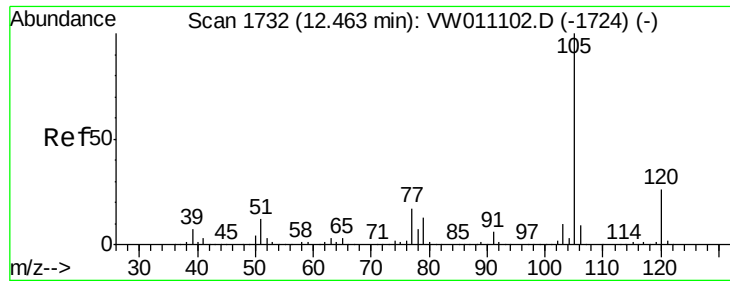
Tgt Ion:106 Resp: 194010
Ion Ratio Lower Upper
106 100
91 220.9 154.6 287.2



#56
Styrene
Concen: 25.202 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011114.D
Acq: 02 Jul 2019 17:50

Tgt Ion:104 Resp: 340995
Ion Ratio Lower Upper
104 100
78 47.8 33.7 62.7





#57

Isopropylbenzene

Concen: 24.594 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

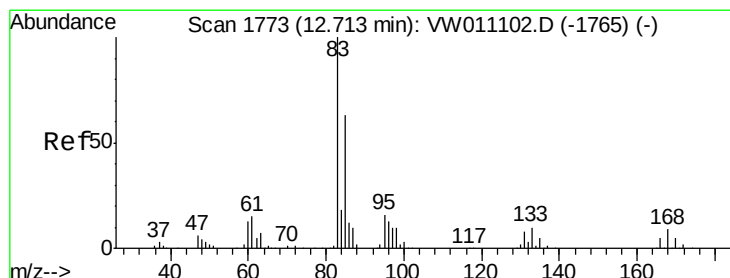
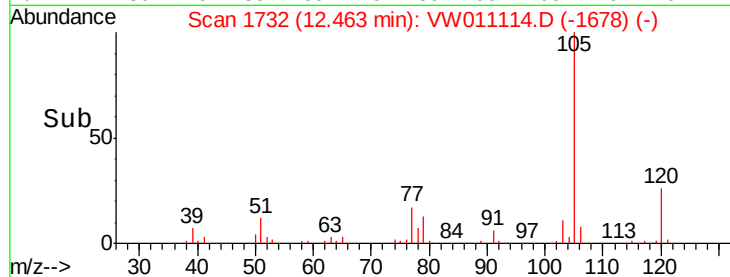
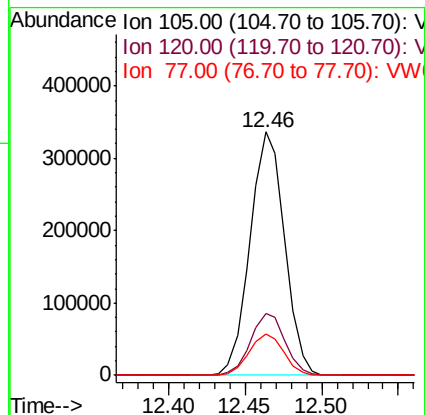
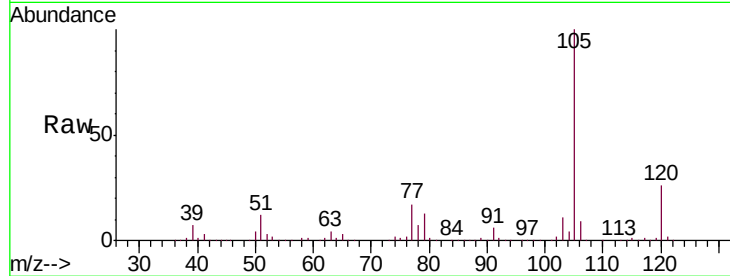
Tgt Ion: 105 Resp: 529525

Ion Ratio Lower Upper

105 100

120 25.4 20.7 31.1

77 17.0 13.5 20.3



#58

1,1,2,2-Tetrachloroethane

Concen: 25.656 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

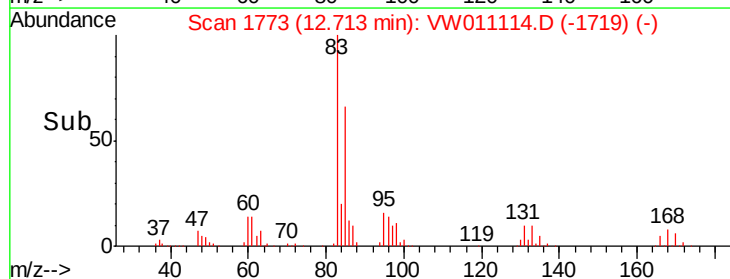
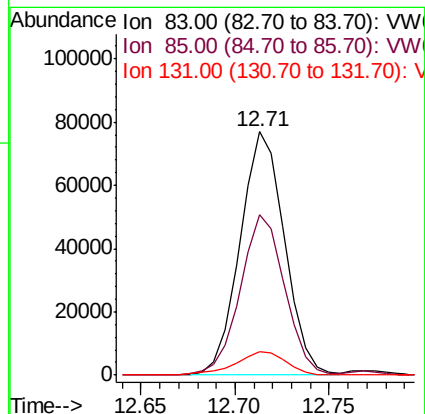
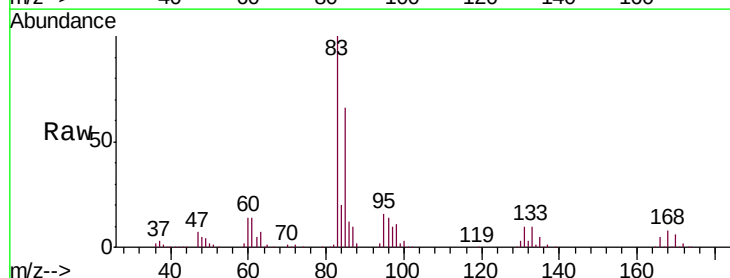
Tgt Ion: 83 Resp: 125977

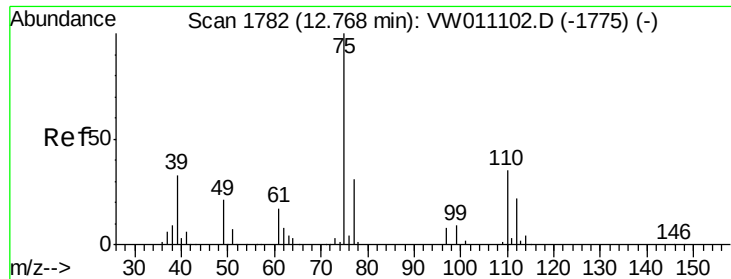
Ion Ratio Lower Upper

83 100

85 65.9 44.0 81.6

131 9.8 6.7 10.1





#59

1,2,3-Trichloropropane

Concen: 25.719 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

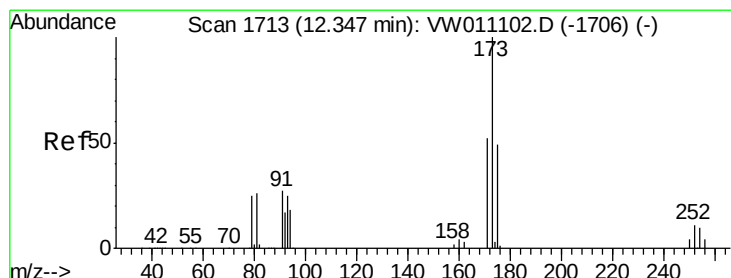
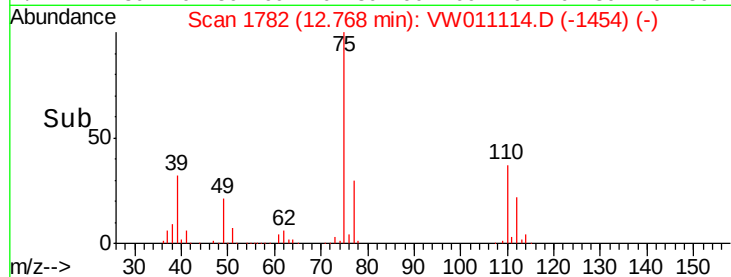
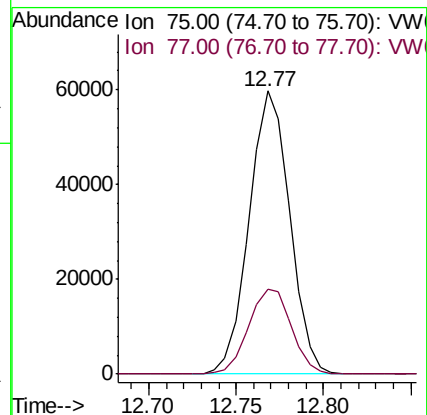
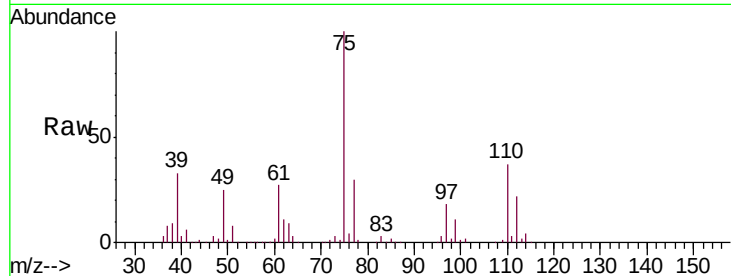
VSTD02513

Tgt Ion: 75 Resp: 96983

Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.0



#62

Bromoform

Concen: 25.093 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

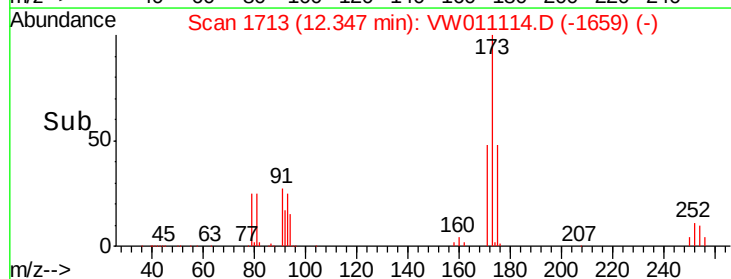
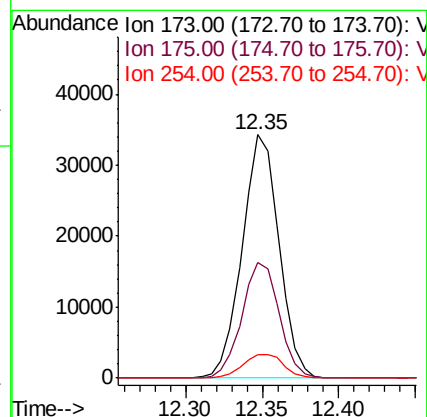
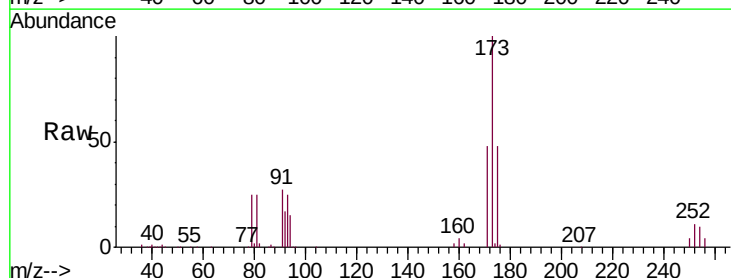
Tgt Ion: 173 Resp: 57346

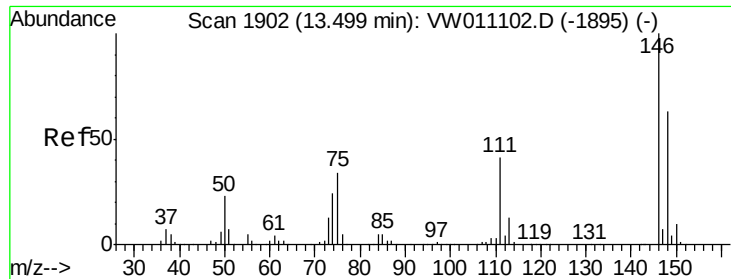
Ion Ratio Lower Upper

173 100

175 48.1 39.0 58.6

254 10.6 8.5 12.7





#63

1,3-Dichlorobenzene

Concen: 24.324 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

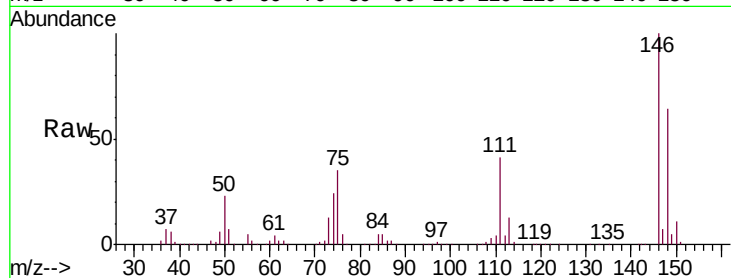
Tgt Ion:146 Resp: 229476

Ion Ratio Lower Upper

146 100

111 41.4 29.0 53.8

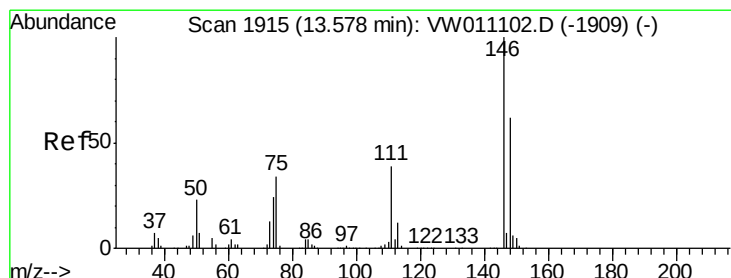
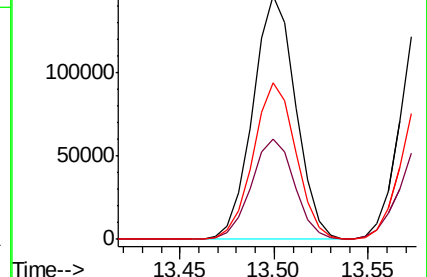
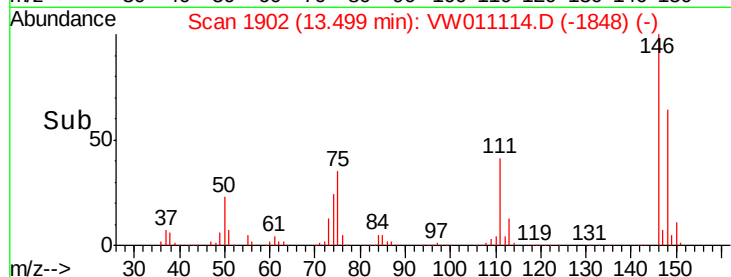
148 64.2 44.4 82.5



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: 24.081 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

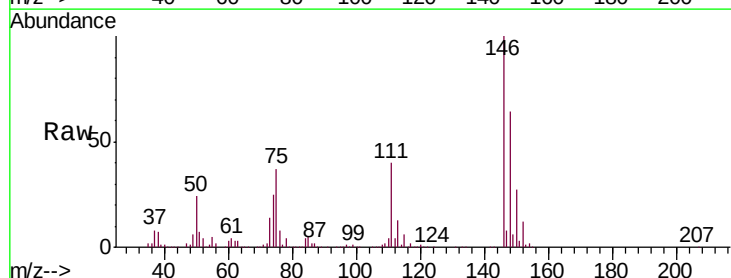
Tgt Ion:146 Resp: 232572

Ion Ratio Lower Upper

146 100

111 40.1 27.5 51.1

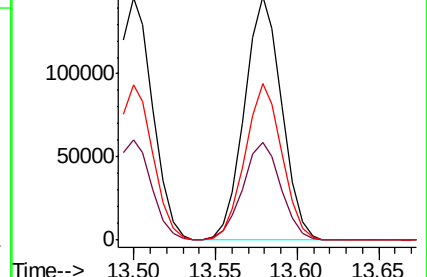
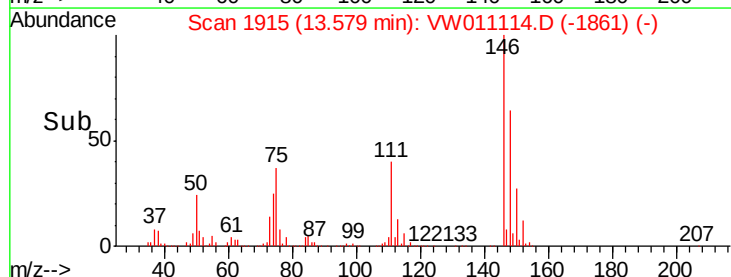
148 64.1 43.8 81.3

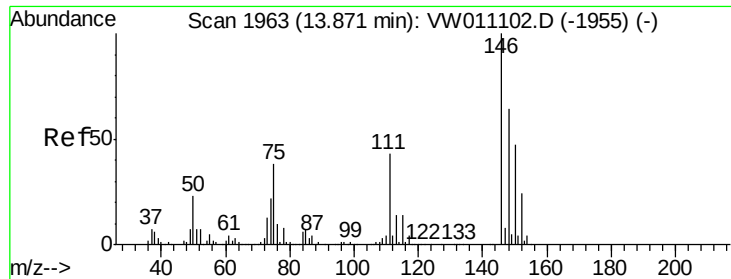


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

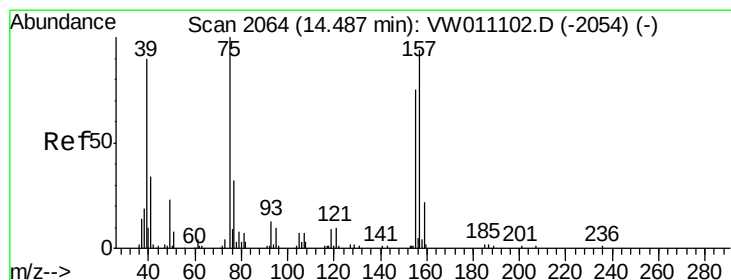
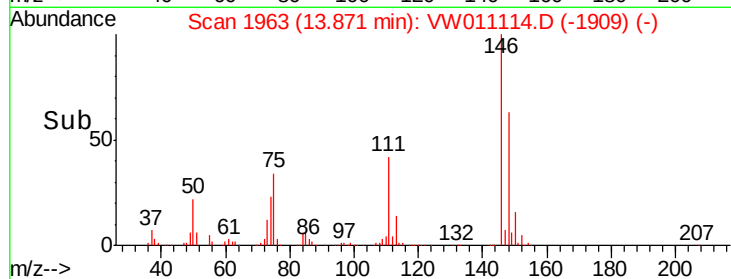
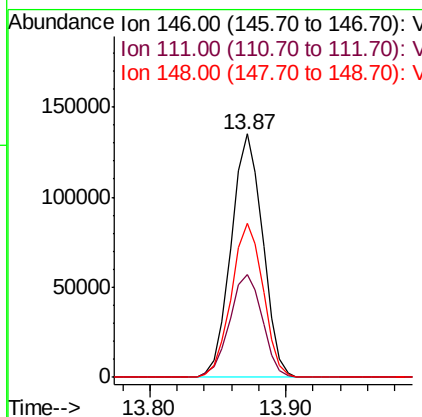
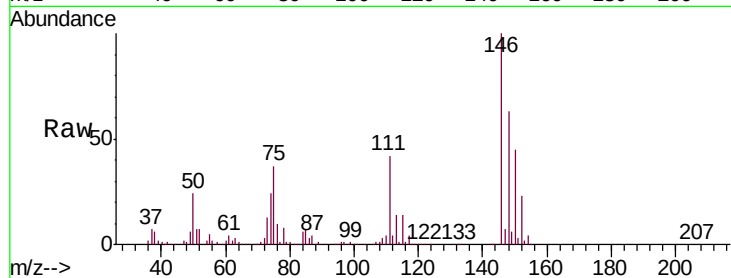




#65
 1,2-Dichlorobenzene
 Concen: 24.871 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011114.D
 Acq: 02 Jul 2019 17:50

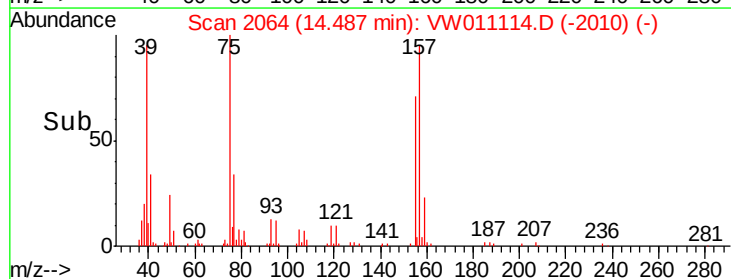
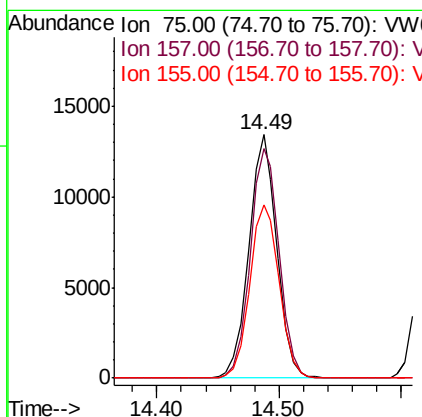
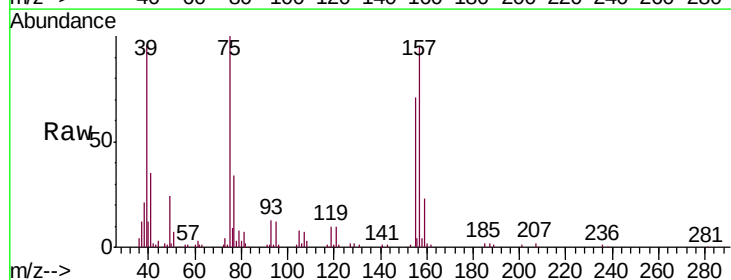
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

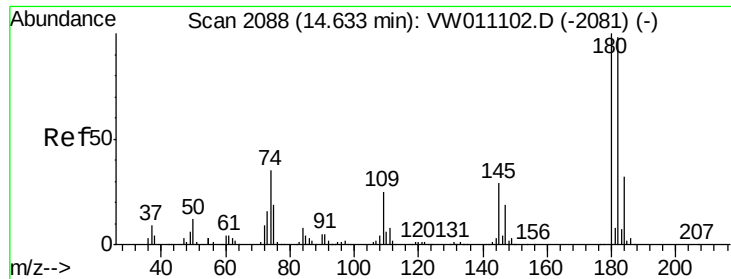
Tgt Ion: 146 Resp: 218405
 Ion Ratio Lower Upper
 146 100
 111 42.2 34.1 51.1
 148 63.0 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 24.589 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011114.D
 Acq: 02 Jul 2019 17:50

Tgt Ion: 75 Resp: 21200
 Ion Ratio Lower Upper
 75 100
 157 94.5 75.3 112.9
 155 71.3 60.2 90.2

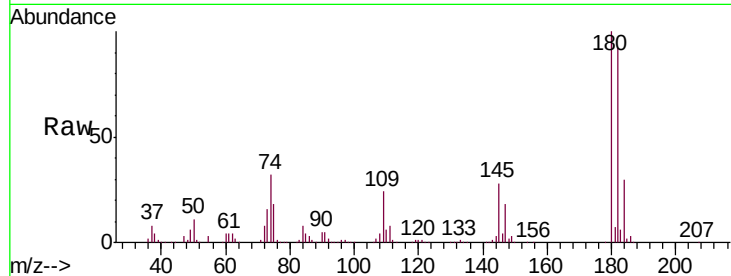




#67
 1,3,5-Trichlorobenzene
 Concen: 24.659 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW011114.D
 Acq: 02 Jul 2019 17:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.0	115.4
184	30.4	24.3	36.5
145	29.6	24.2	36.2



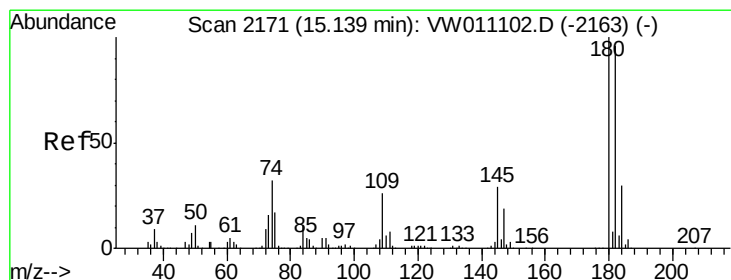
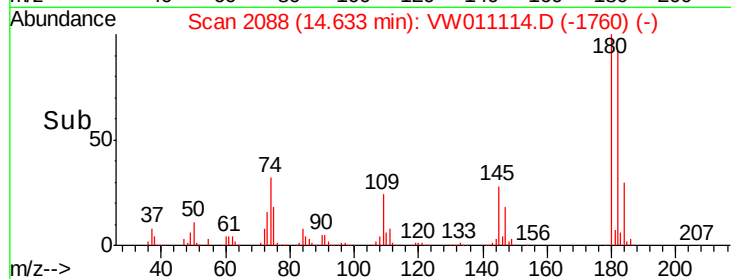
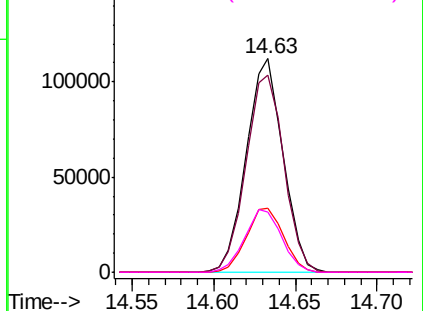
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

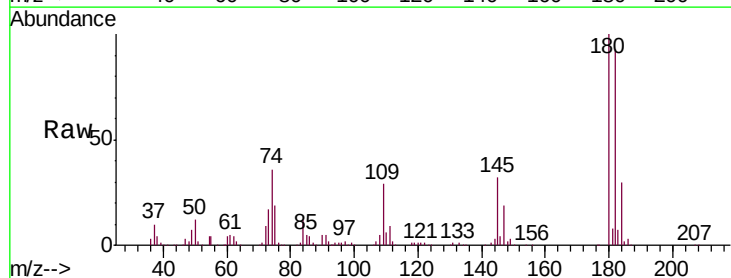
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 24.977 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW011114.D
 Acq: 02 Jul 2019 17:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	77.0	115.6
145	31.2	24.5	36.7

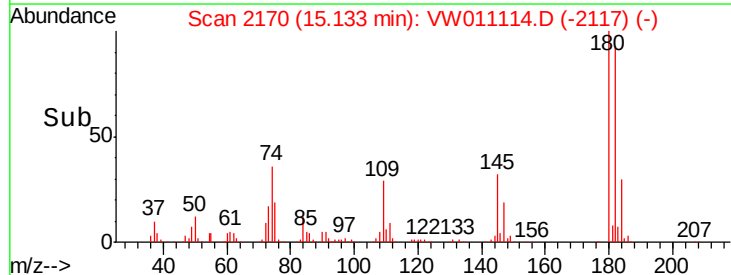
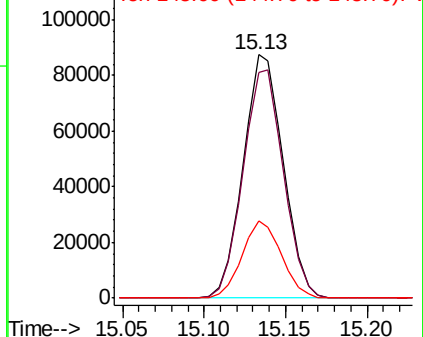


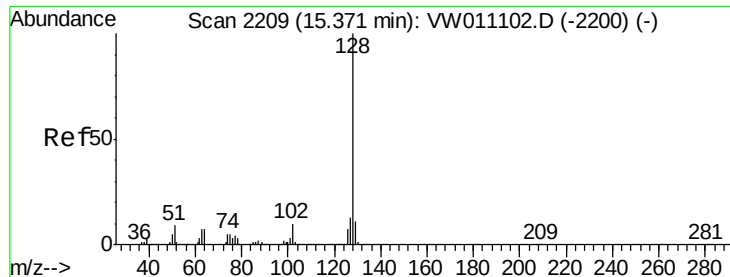
Abundance

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: 26.975 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

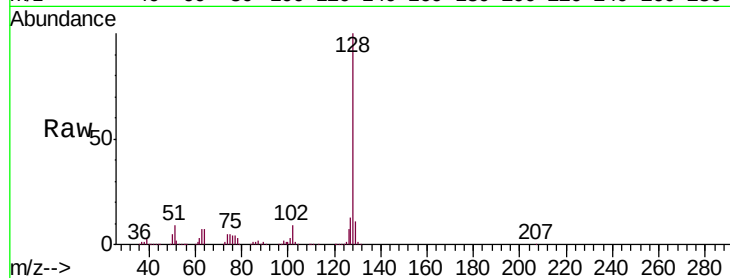
Tgt Ion:128 Resp: 338307

Ion Ratio Lower Upper

128 100

129 10.9 9.0 13.4

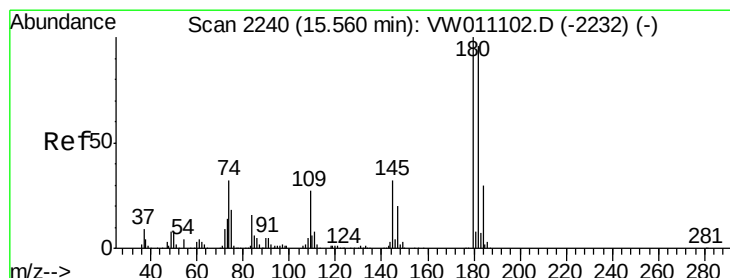
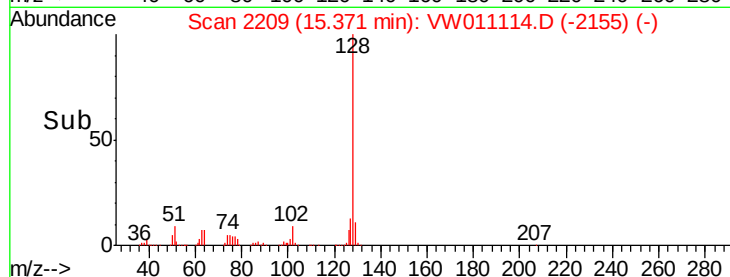
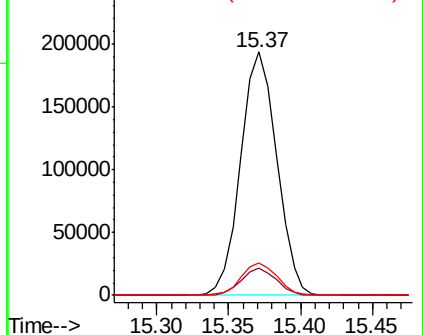
127 13.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.784 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW011114.D

Acq: 02 Jul 2019 17:50

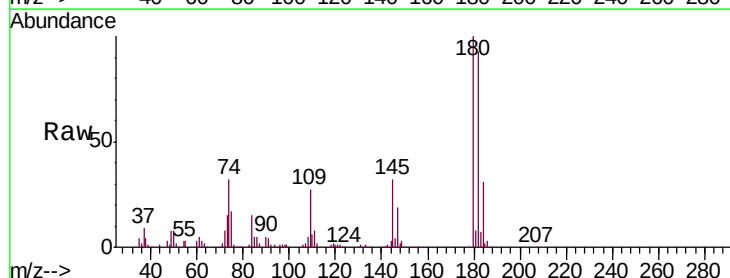
Tgt Ion:180 Resp: 141271

Ion Ratio Lower Upper

180 100

182 94.7 76.4 114.6

145 32.0 25.5 38.3



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

