

Data File : VW010839.D
Acq On : 18 Jun 2019 09:54
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

Quant Time: Jun 19 04:48:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM061119S.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 18 05:48:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	380346	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	341969	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	164898	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	126464	22.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.32%
7) Chloroethane-d5	2.88	69	99017	23.57	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.28%
10) 1,1-Dichloroethene-d2	4.01	63	270213	23.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.12%
20) 2-Butanone-d5	7.07	46	87719	40.36	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	80.72%
24) Chloroform-d	7.65	84	202002	25.84	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.36%
26) 1,2-Dichloroethane-d4	8.30	65	148940	23.39	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.56%
29) Benzene-d6	8.27	84	499995	24.49	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.96%
33) 1,2-Dichloropropane-d6	9.27	67	160692	24.53	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.12%
37) Toluene-d8	10.32	98	454231	24.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.04%
38) trans-1,3-Dichloropropene-	10.58	79	72259	24.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.52%
39) 2-Hexanone-d5	10.93	63	73780	47.14	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.28%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	134133	24.18	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.72%
61) 1,2-Dichlorobenzene-d4	13.86	152	151128	24.08	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.32%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.00	85	150243	24.669	ug/L 100
3) Chloromethane	2.21	50	165039	24.366	ug/L 100
5) Vinyl chloride	2.35	62	154507	24.881	ug/L 99
6) Bromomethane	2.77	94	71059	25.403	ug/L 97
8) Chloroethane	2.92	64	89664	24.655	ug/L 100
9) Trichlorofluoromethane	3.26	101	206243	25.103	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	115862	24.103	ug/L 100
12) 1,1-Dichloroethene	4.04	96	105654	23.890	ug/L 97
13) Acetone	4.12	43	104279	44.657	ug/L 100
14) Carbon disulfide	4.38	76	299090	22.917	ug/L 99
15) Methyl Acetate	4.67	43	81831	21.827	ug/L 100
16) Methylene chloride	4.92	84	120221	23.034	ug/L 98
17) Methyl tert-butyl Ether	5.43	73	330091	22.540	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	117624	23.854	ug/L 97
19) 1,1-Dichloroethane	6.22	63	246342	23.975	ug/L 99
21) 2-Butanone	7.17	43	129253	40.525	ug/L 99
22) cis-1,2-Dichloroethene	7.17	96	133392	23.772	ug/L 99

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Quant Title : VOC Analysis
QLast Update : Tue Jun 18 05:48:46 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	53176	23.102	ug/L	99
25) Chloroform	7.68	83	276116	23.349	ug/L	99
27) 1,2-Dichloroethane	8.40	62	174205	23.037	ug/L	99
30) Cyclohexane	7.95	56	244971	24.177	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	205724	25.172	ug/L	100
32) Carbon tetrachloride	8.07	117	172523	25.317	ug/L	99
34) Benzene	8.32	78	510602	24.275	ug/L	100
35) Trichloroethene	9.09	95	130099	24.136	ug/L	99
36) Methylcyclohexane	9.34	83	228843	24.098	ug/L	99
40) 1,2-Dichloropropane	9.37	63	142239	24.262	ug/L	100
41) Bromodichloromethane	9.65	83	170548	24.705	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	216952	24.174	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	257974	45.798	ug/L	100
44) Toluene	10.39	91	536352	24.347	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	187152	24.766	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	97030	23.249	ug/L	98
47) Tetrachloroethene	10.87	164	97764	24.204	ug/L	95
49) 2-Hexanone	10.97	43	197196	47.226	ug/L	98
50) Dibromochloromethane	11.13	129	110766	23.948	ug/L	98
51) 1,2-Dibromoethane	11.24	107	90095	22.545	ug/L	98
52) Chlorobenzene	11.66	112	330165	24.039	ug/L	99
53) Ethylbenzene	11.73	91	619503	24.572	ug/L	99
54) m,p-Xylene	11.84	106	221249	24.352	ug/L	96
55) o-xylene	12.17	106	215075	24.413	ug/L	96
56) Styrene	12.18	104	370689	24.180	ug/L	98
57) Isopropylbenzene	12.46	105	600304	24.886	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	131104	23.446	ug/L	100
59) 1,2,3-Trichloropropane	12.77	75	103417	23.395	ug/L	100
62) Bromoform	12.35	173	64778	23.162	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	255545	24.018	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	254672	23.651	ug/L	100
65) 1,2-Dichlorobenzene	13.87	146	236740	23.783	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	23799	22.680	ug/L	92
67) 1,3,5-Trichlorobenzene	14.63	180	201315	24.930	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	166085	24.645	ug/L	98
69) Naphthalene	15.37	128	344301	24.165	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	148031	24.516	ug/L	99

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

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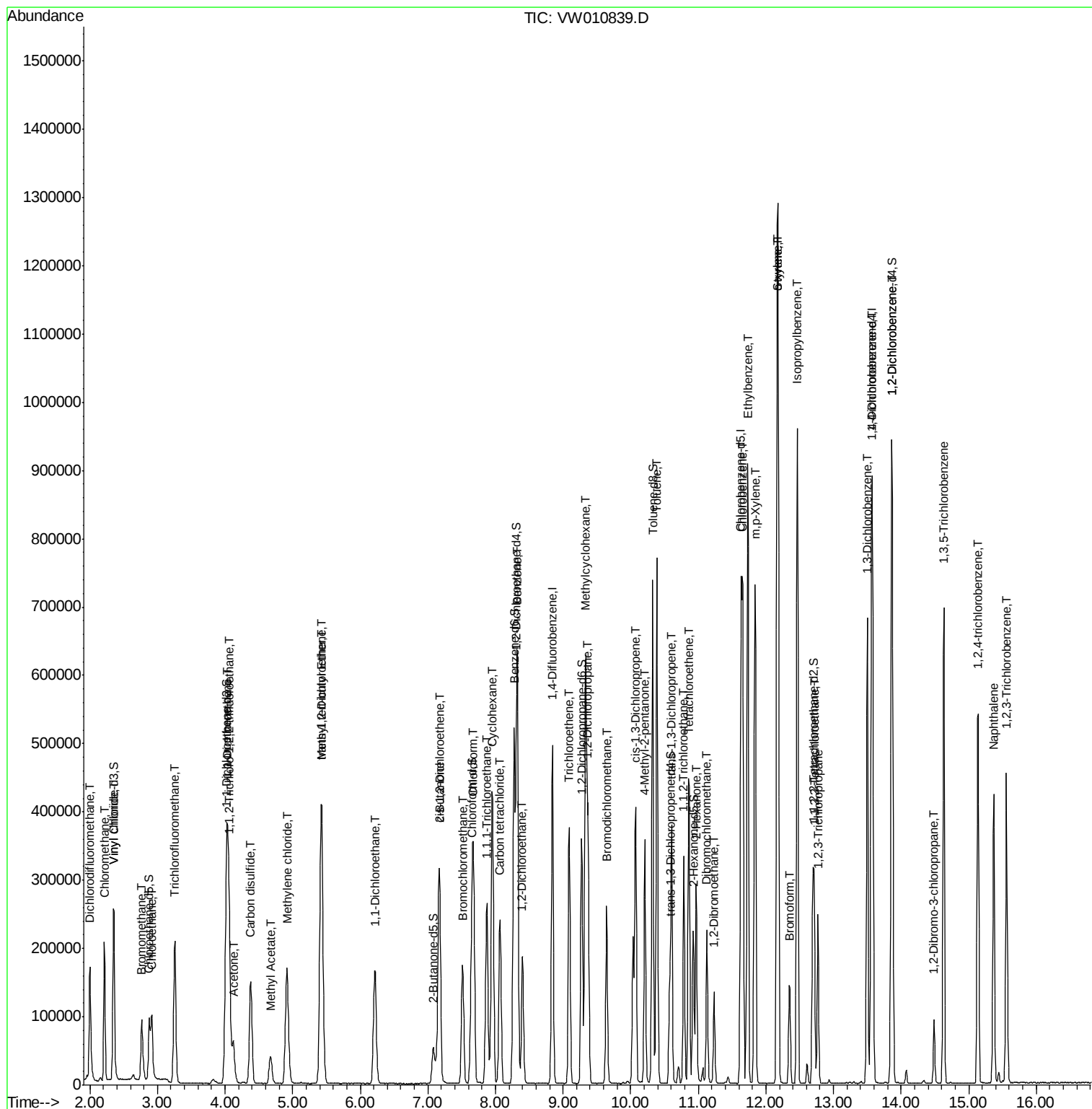
Quant Time: Jun 19 04:48:01 2019

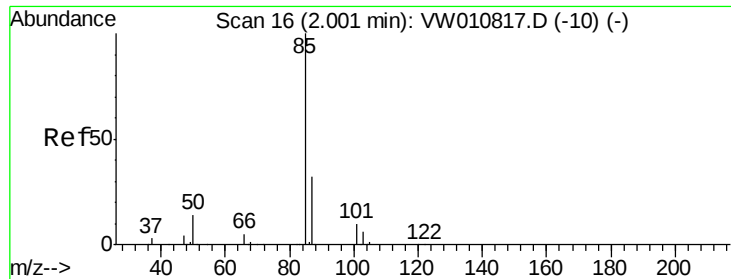
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM061119S.M

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#2

Dichlorodifluoromethane

Concen: 24.669 ug/L

RT: 2.00 min Scan# 16

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

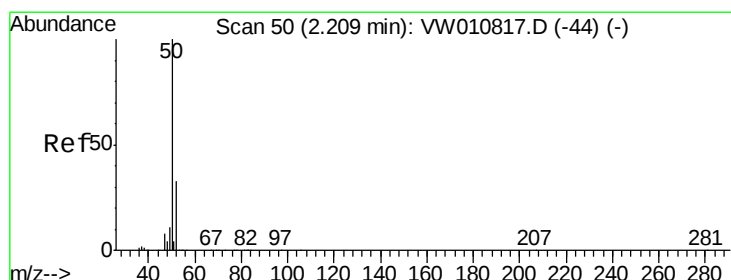
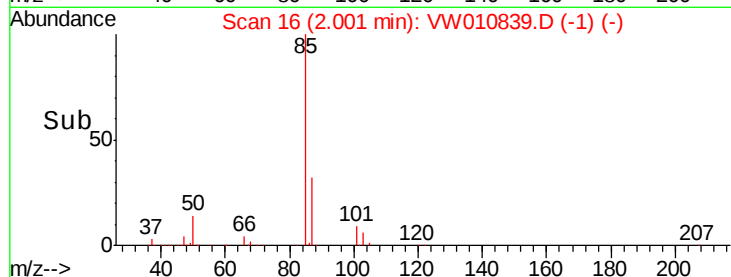
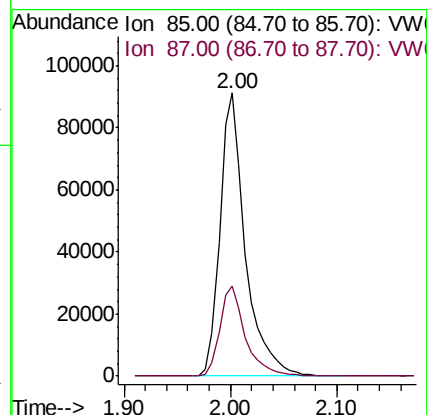
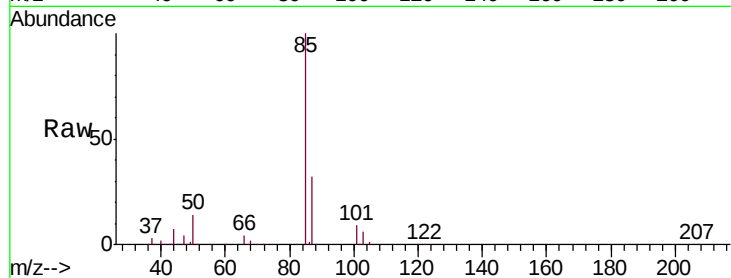
VSTD02523

Tgt Ion: 85 Resp: 150243

Ion Ratio Lower Upper

85 100

87 32.0 22.4 41.6



#3

Chloromethane

Concen: 24.366 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW010839.D

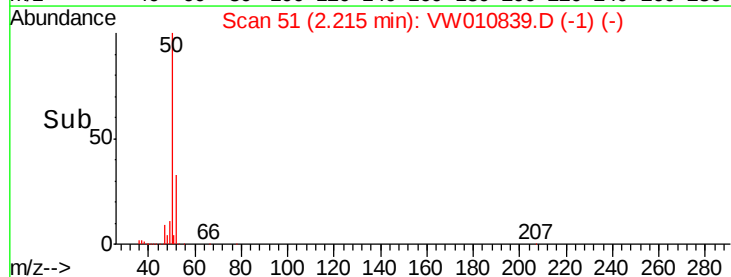
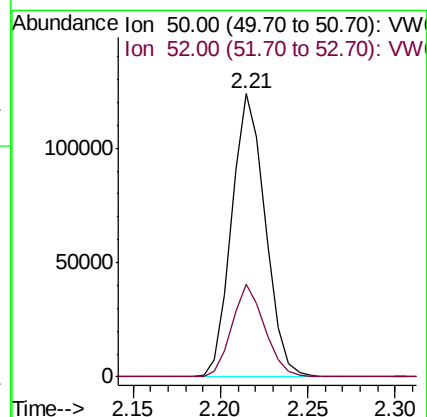
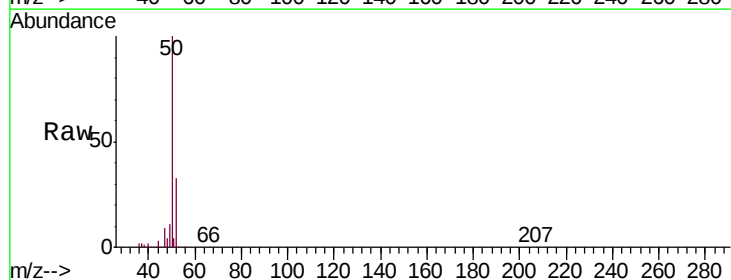
Acq: 18 Jun 2019 09:54

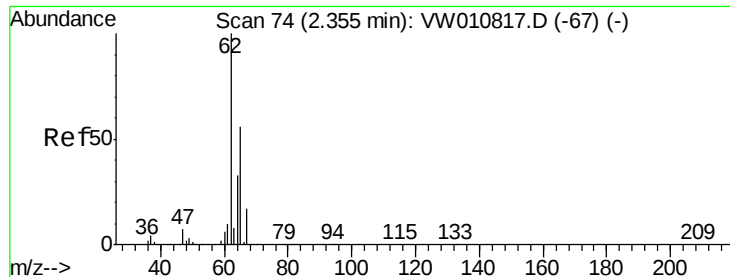
Tgt Ion: 50 Resp: 165039

Ion Ratio Lower Upper

50 100

52 32.9 22.8 42.4





#5

Vinyl chloride

Concen: 24.881 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

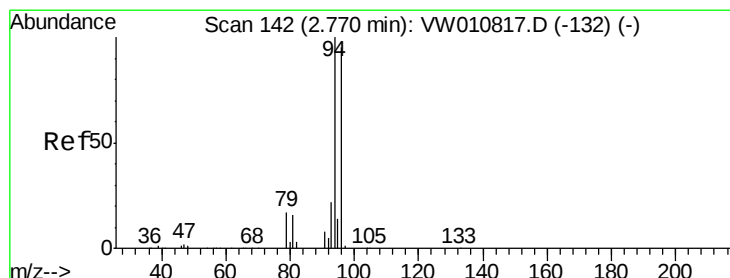
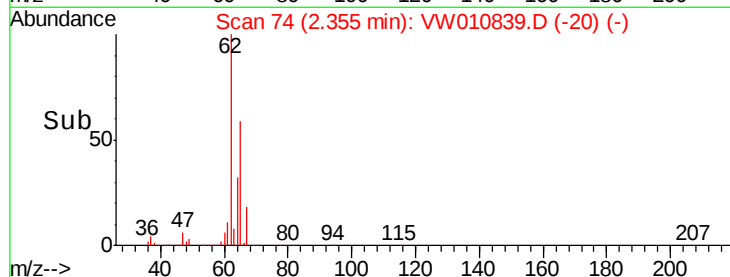
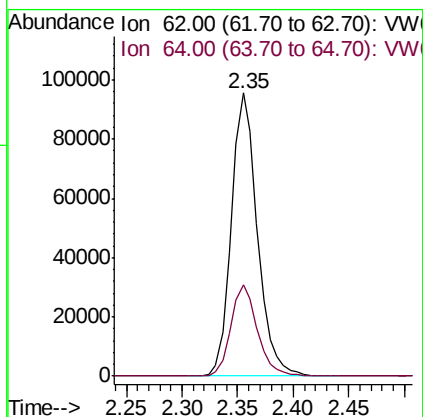
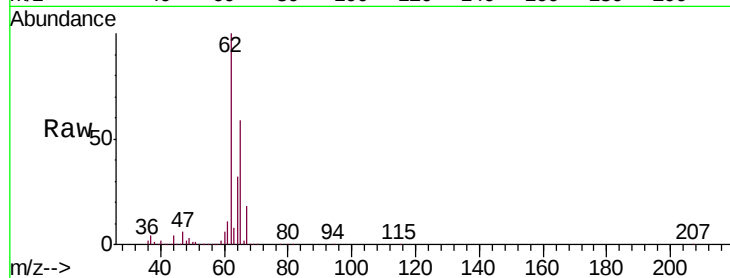
VSTD02523

Tgt Ion: 62 Resp: 154507

Ion Ratio Lower Upper

62 100

64 32.3 22.4 41.6



#6

Bromomethane

Concen: 25.403 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.00 min

Lab File: VW010839.D

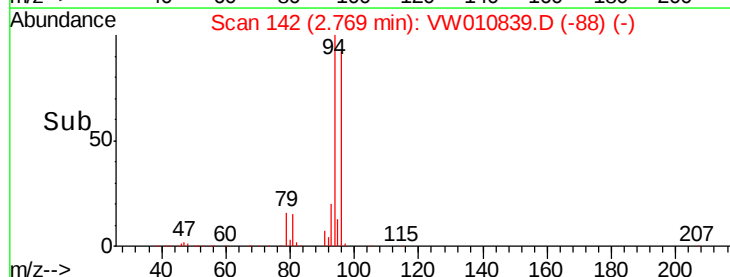
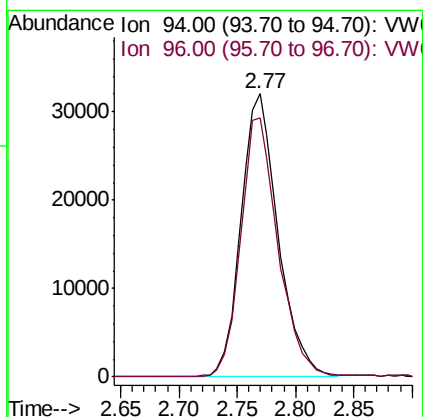
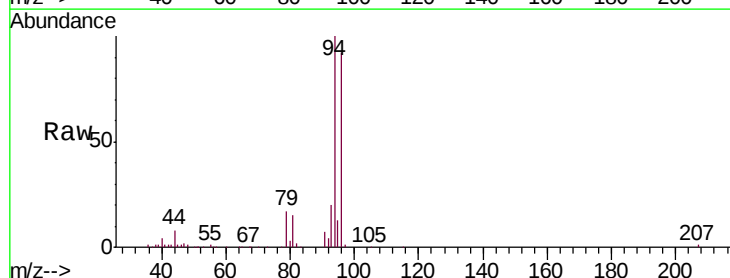
Acq: 18 Jun 2019 09:54

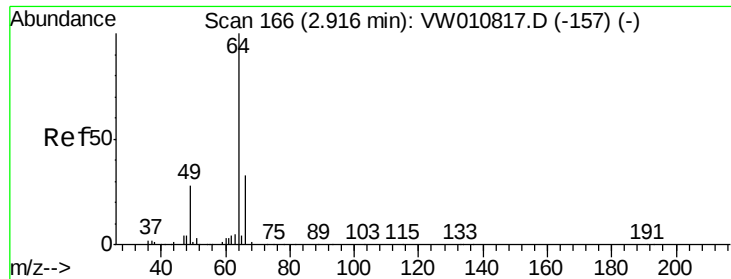
Tgt Ion: 94 Resp: 71059

Ion Ratio Lower Upper

94 100

96 92.0 9.5 180.7





#8

Chloroethane

Concen: 24.655 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

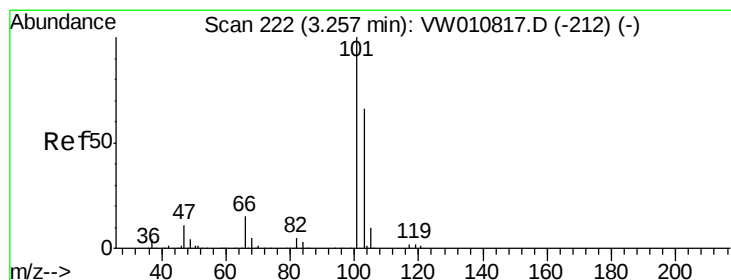
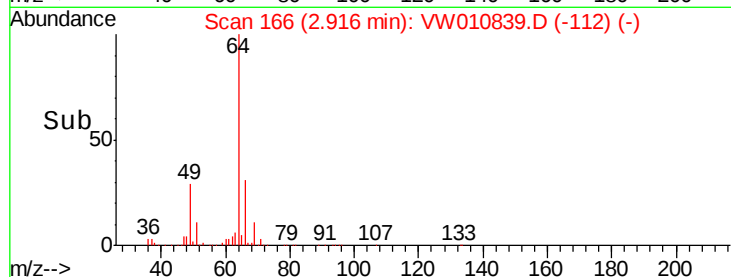
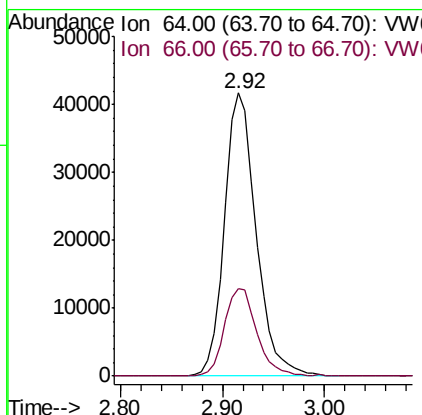
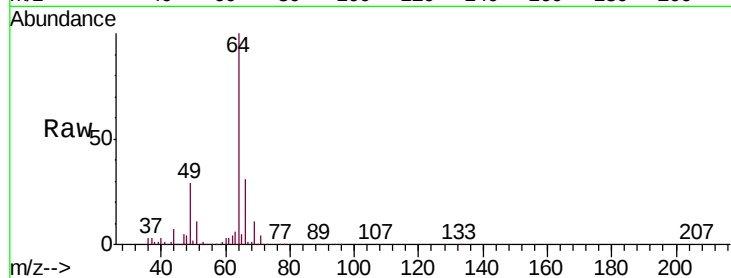
VSTD02523

Tgt Ion: 64 Resp: 89664

Ion Ratio Lower Upper

64 100

66 31.0 21.8 40.4



#9

Trichlorofluoromethane

Concen: 25.103 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW010839.D

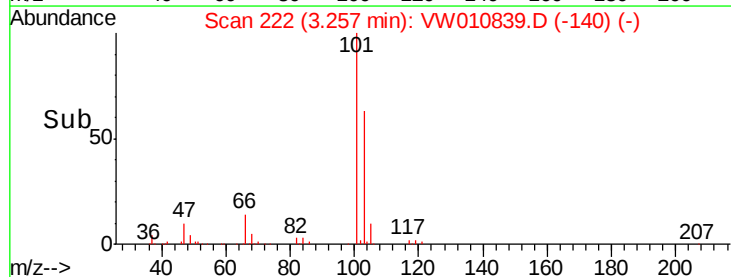
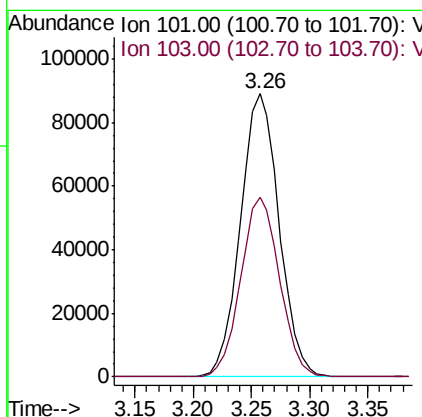
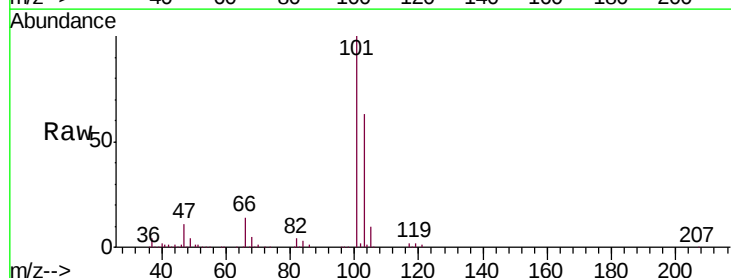
Acq: 18 Jun 2019 09:54

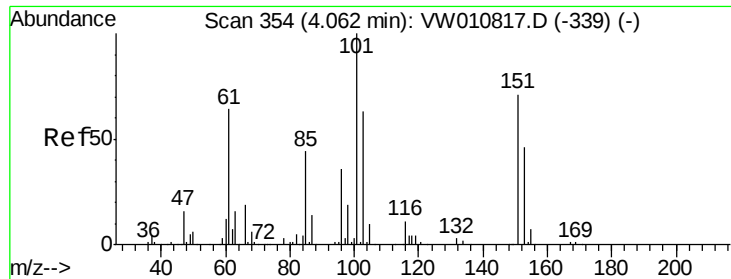
Tgt Ion: 101 Resp: 206243

Ion Ratio Lower Upper

101 100

103 64.0 45.1 83.7





#11

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

Concen: 24.103 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

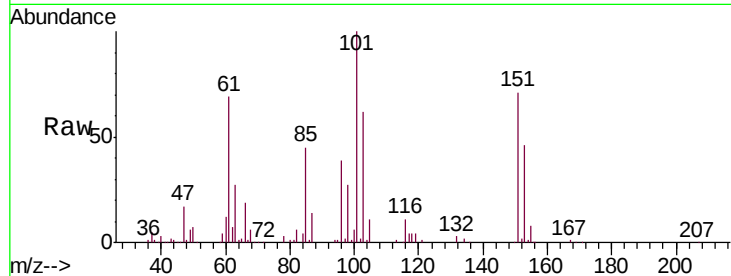
Tgt Ion: 101 Resp: 115862

Ion Ratio Lower Upper

101 100

85 45.3 35.9 53.9

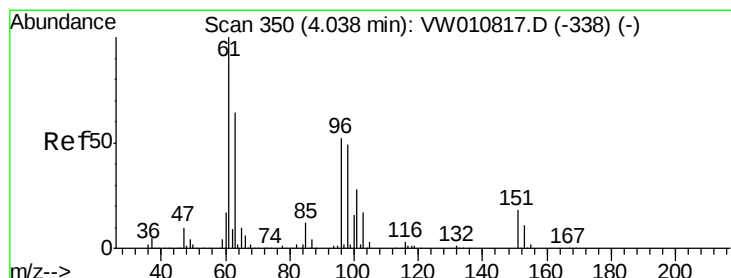
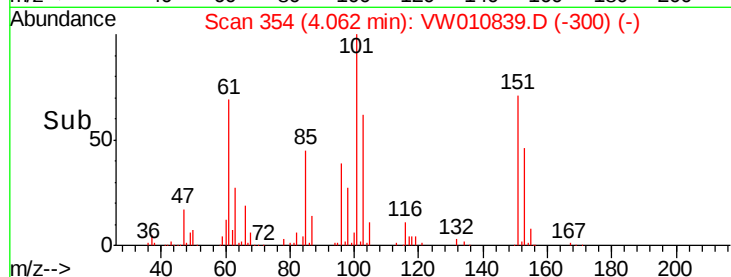
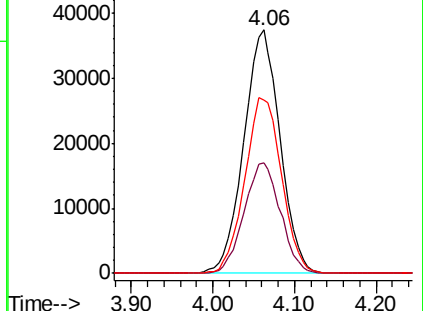
151 73.2 58.6 88.0



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: 23.890 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

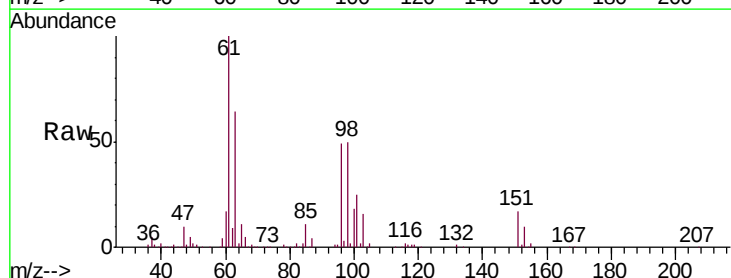
Tgt Ion: 96 Resp: 105654

Ion Ratio Lower Upper

96 100

61 204.7 139.9 259.7

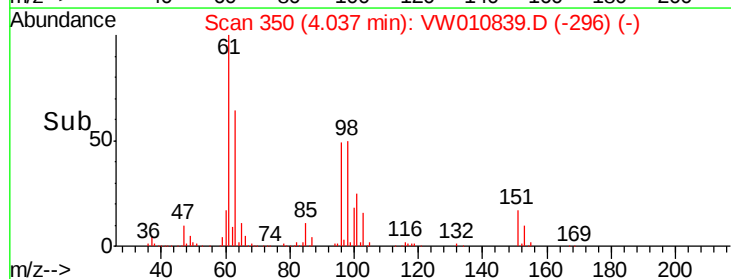
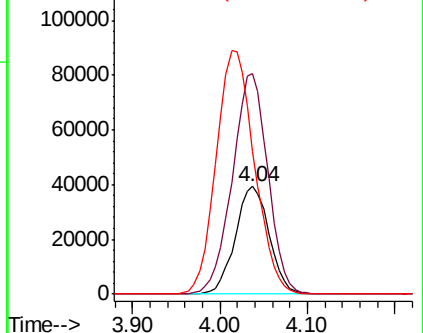
63 131.8 89.2 165.8

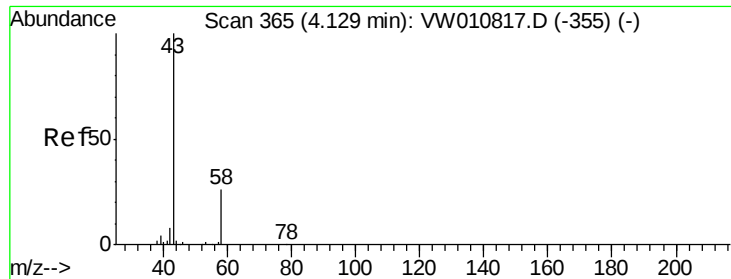


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 44.657 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

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Acq: 18 Jun 2019 09:54

Instrument :

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ClientSampleId :

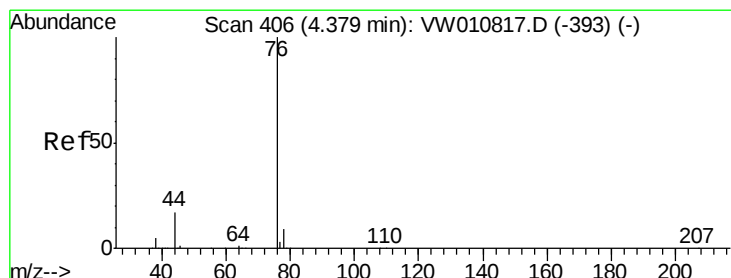
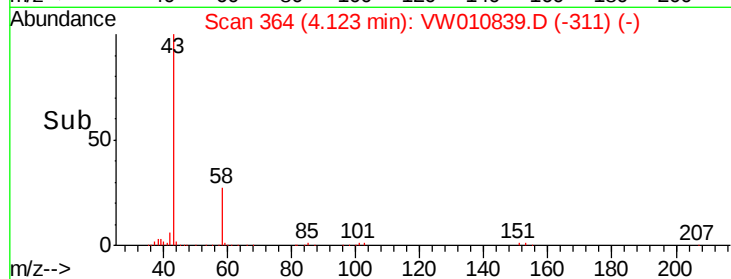
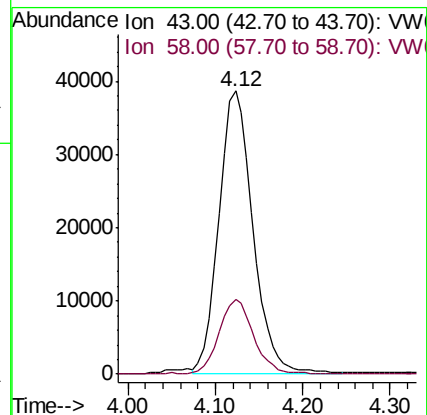
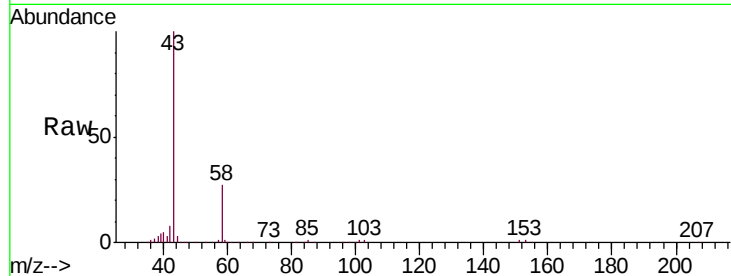
VSTD02523

Tgt Ion: 43 Resp: 104279

Ion Ratio Lower Upper

43 100

58 27.1 0.0 54.6



#14

Carbon disulfide

Concen: 22.917 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW010839.D

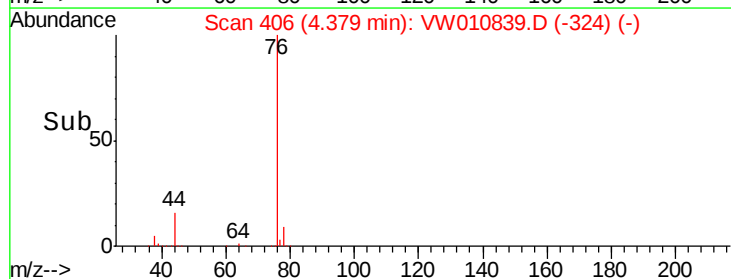
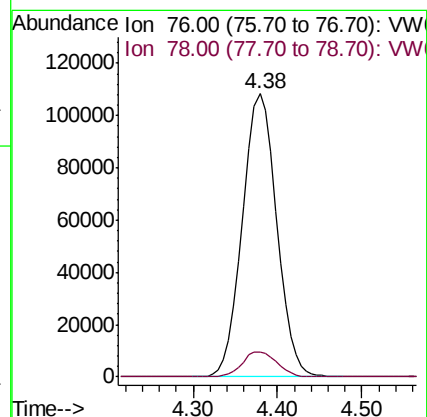
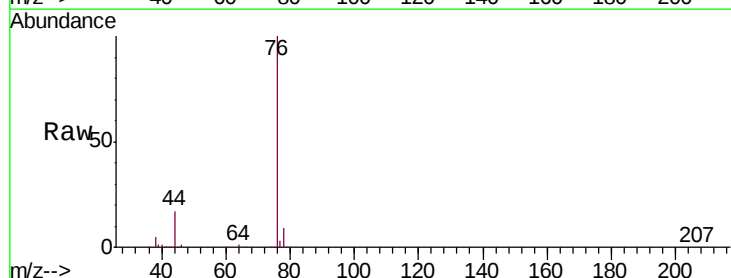
Acq: 18 Jun 2019 09:54

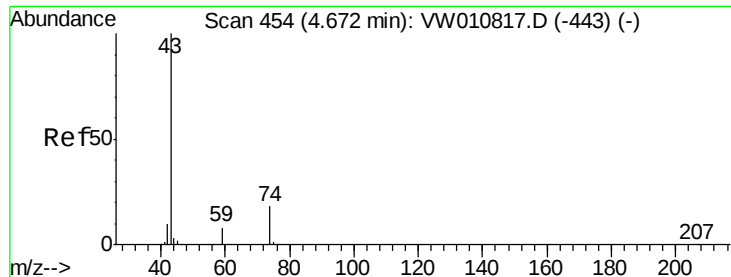
Tgt Ion: 76 Resp: 299090

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.4





#15

Methyl Acetate

Concen: 21.827 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

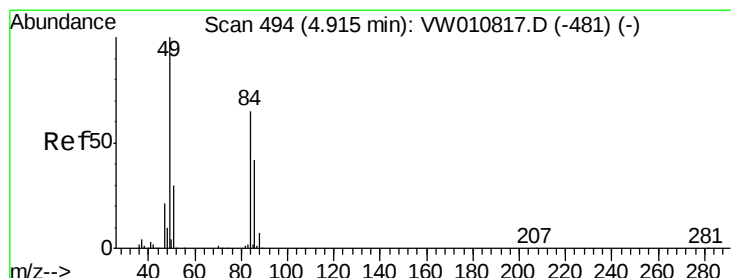
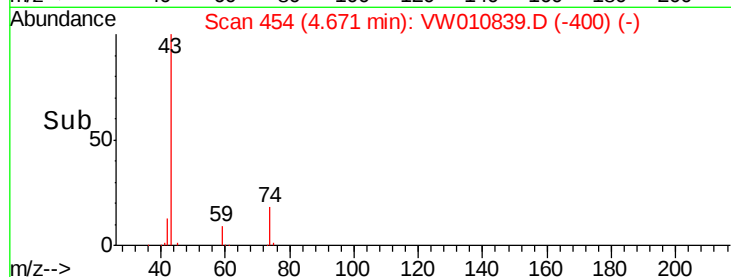
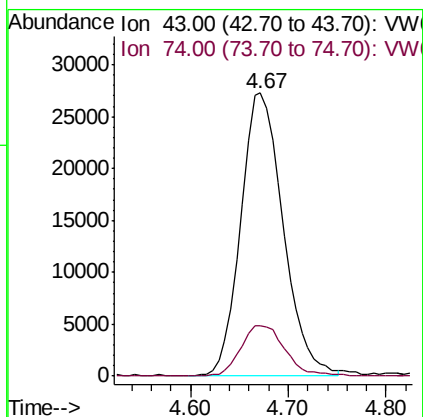
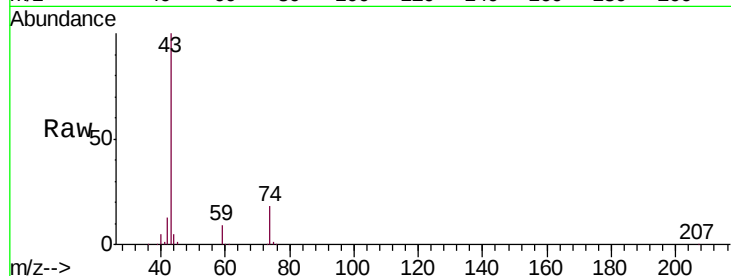
VSTD02523

Tgt Ion: 43 Resp: 81831

Ion Ratio Lower Upper

43 100

74 18.7 15.0 22.6



#16

Methylene chloride

Concen: 23.034 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

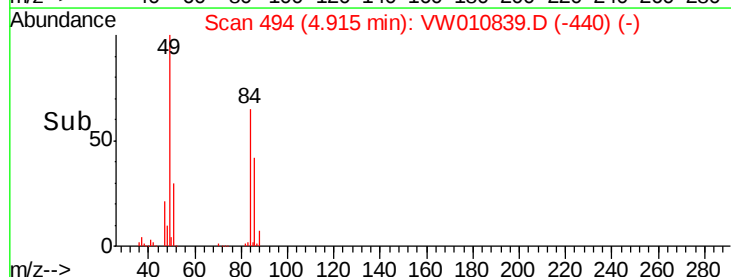
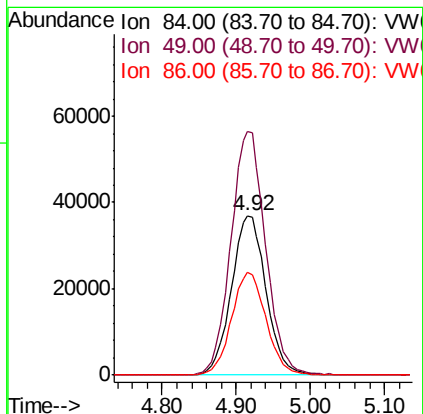
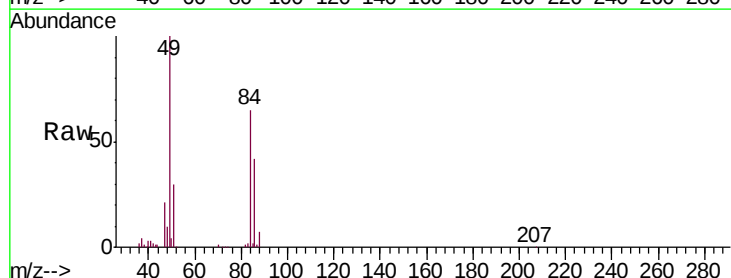
Tgt Ion: 84 Resp: 120221

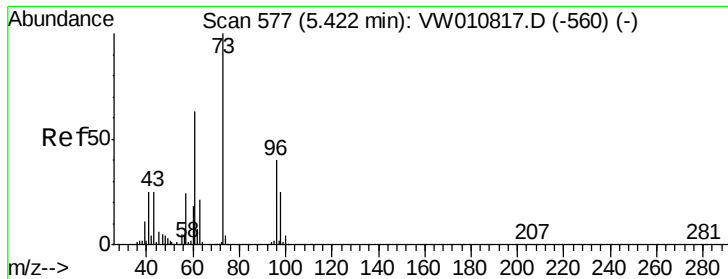
Ion Ratio Lower Upper

84 100

49 152.7 105.2 195.4

86 64.4 43.7 81.1

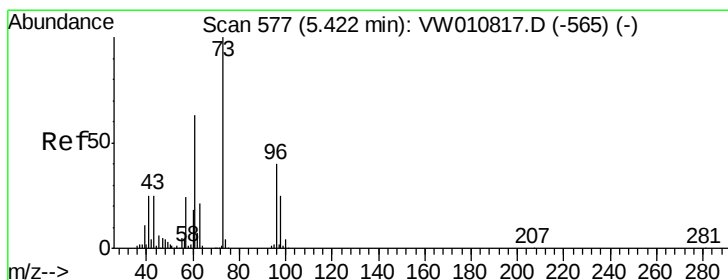
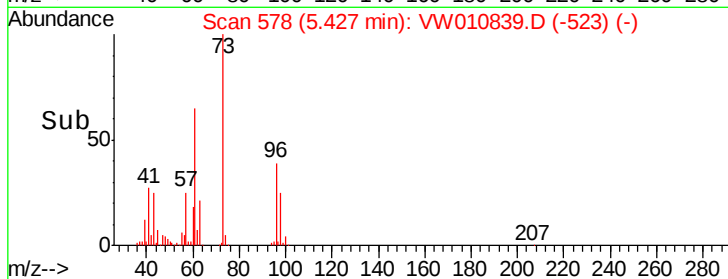
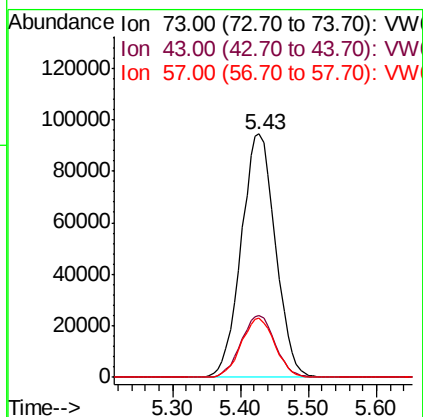
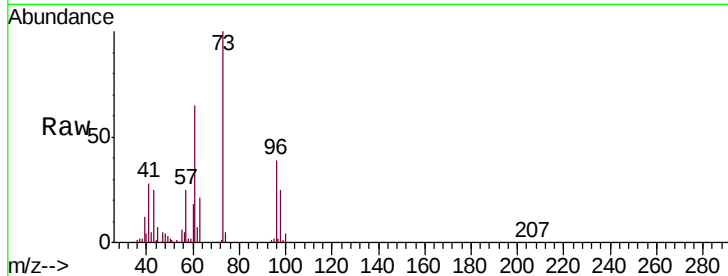




#17
Methyl tert-butyl Ether
Concen: 22.540 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW010839.D
Acq: 18 Jun 2019 09:54

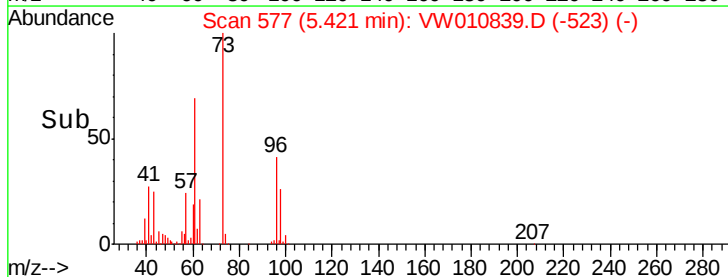
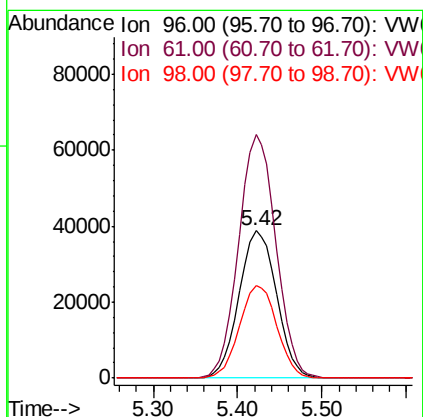
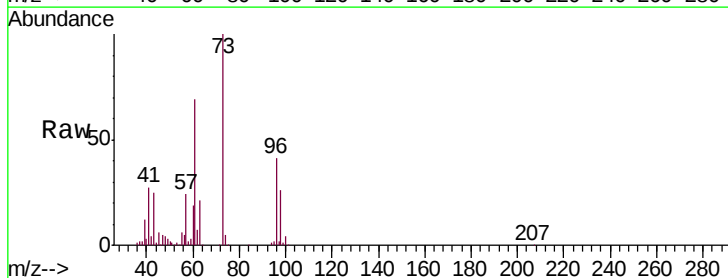
Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

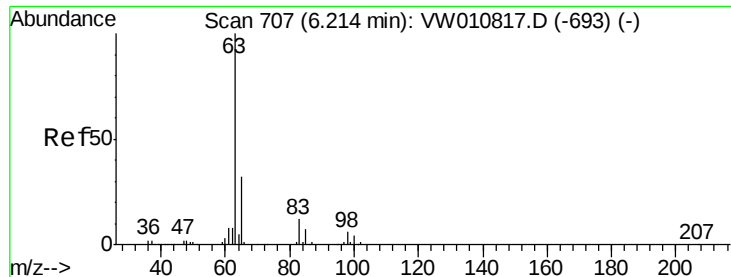
Tgt Ion: 73 Resp: 330091
Ion Ratio Lower Upper
73 100
43 25.5 19.8 29.6
57 24.2 19.2 28.8



#18
trans-1,2-Dichloroethene
Concen: 23.854 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW010839.D
Acq: 18 Jun 2019 09:54

Tgt Ion: 96 Resp: 117624
Ion Ratio Lower Upper
96 100
61 165.5 111.5 207.1
98 63.1 44.1 81.9

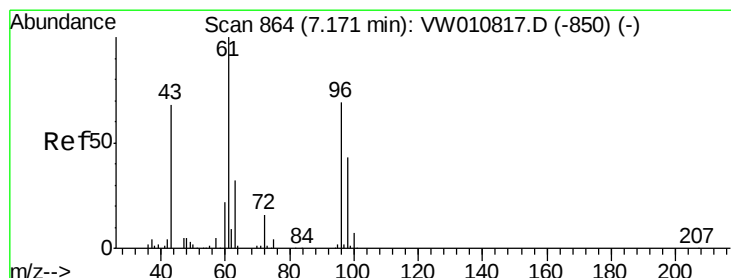
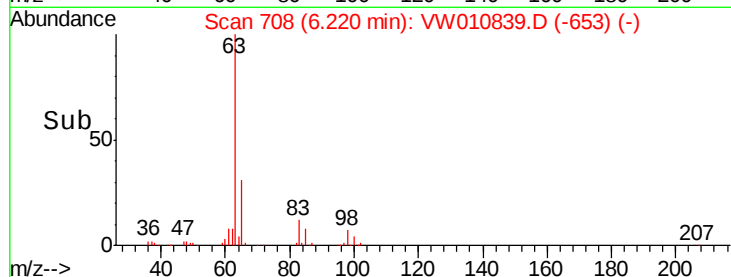
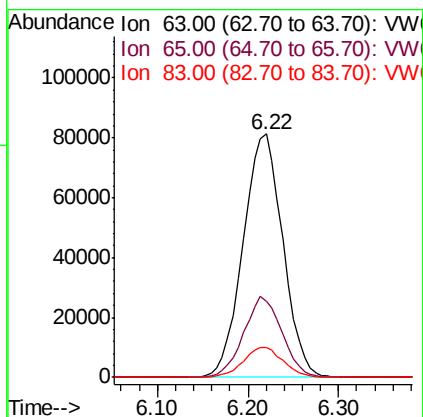
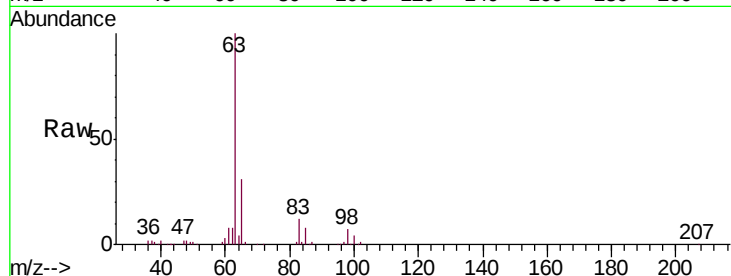




#19
 1,1-Dichloroethane
 Concen: 23.975 ug/L
 RT: 6.22 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

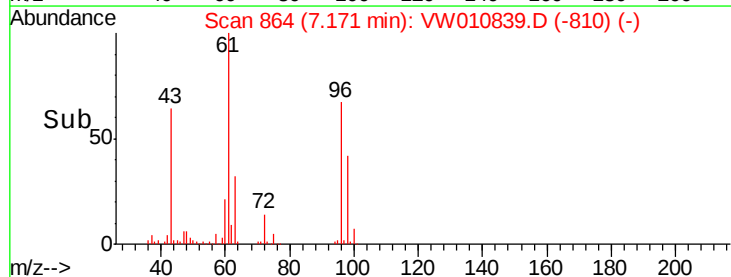
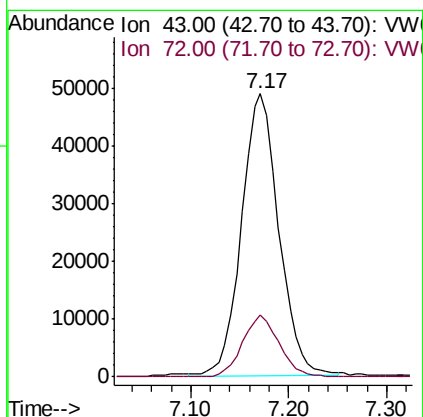
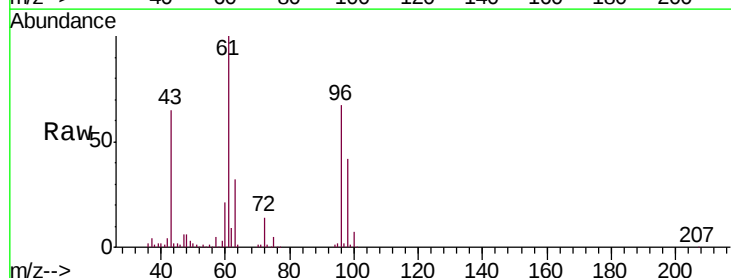
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02523

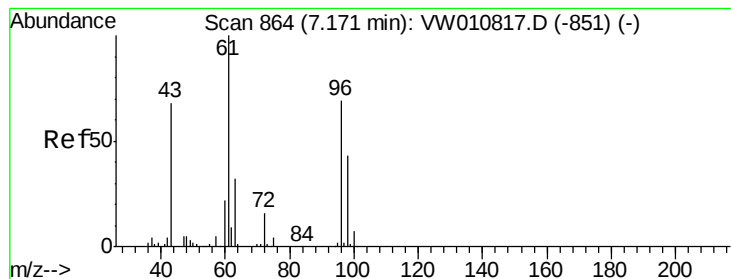
Tgt Ion: 63 Resp: 246342
 Ion Ratio Lower Upper
 63 100
 65 31.2 22.2 41.2
 83 12.1 8.6 16.0



#21
 2-Butanone
 Concen: 40.525 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

Tgt Ion: 43 Resp: 129253
 Ion Ratio Lower Upper
 43 100
 72 21.7 11.0 33.0



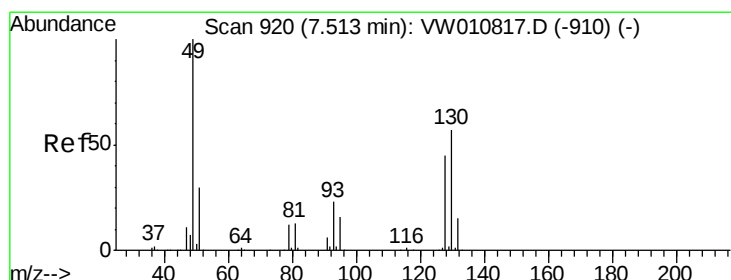
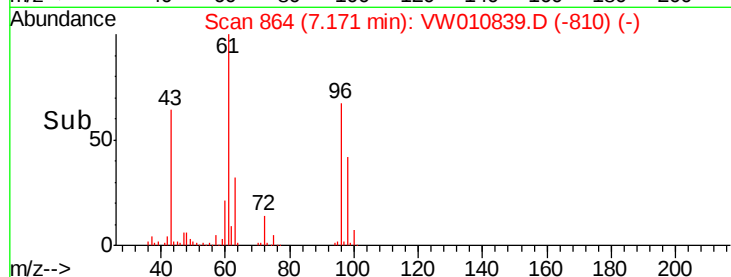
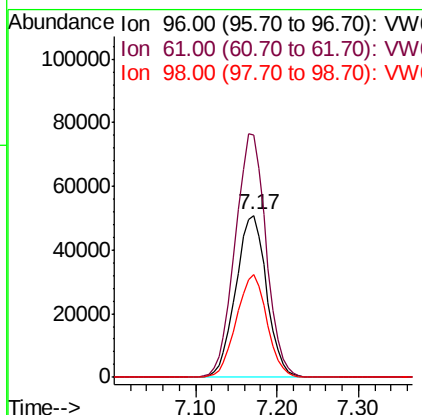
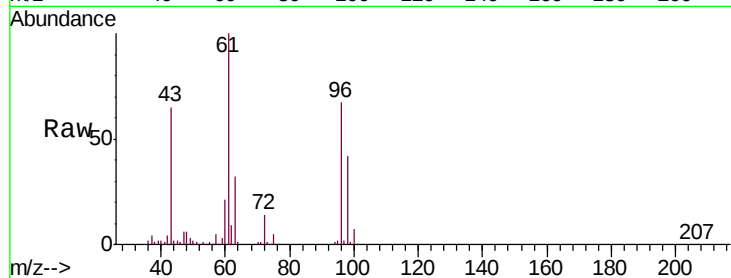


#22

cis-1,2-Dichloroethene
Concen: 23.772 ug/L
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW010839.D
Acq: 18 Jun 2019 09:54

Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

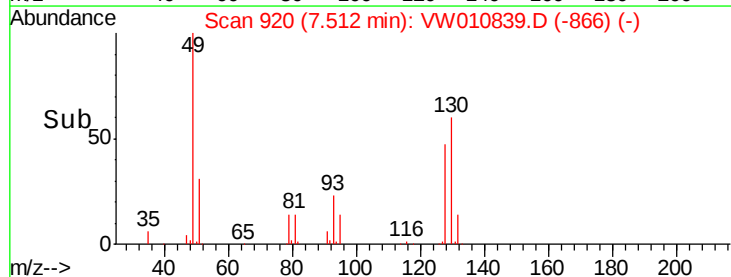
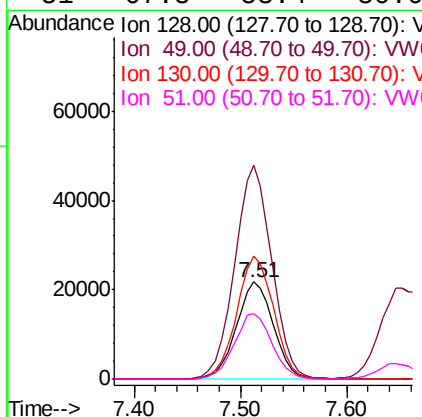
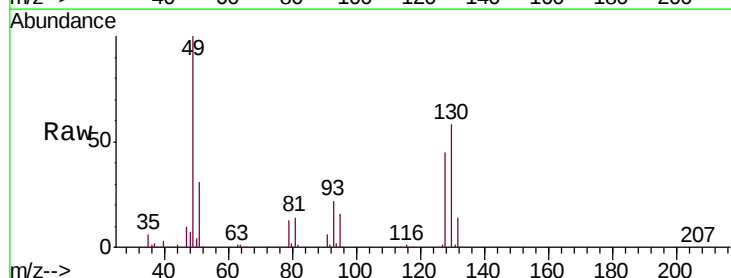
Tgt Ion: 96 Resp: 133392
Ion Ratio Lower Upper
96 100
61 149.5 105.3 195.6
98 63.4 44.6 82.8

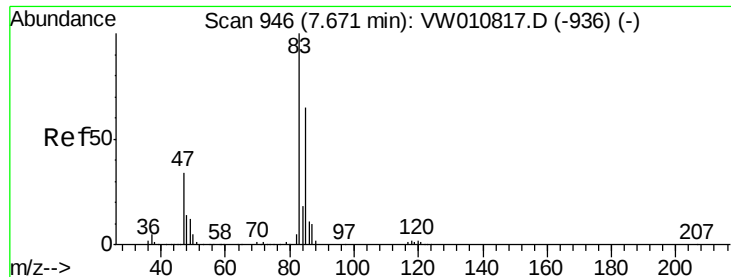


#23

Bromochloromethane
Concen: 23.102 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW010839.D
Acq: 18 Jun 2019 09:54

Tgt Ion: 128 Resp: 53176
Ion Ratio Lower Upper
128 100
49 220.3 155.1 288.1
130 127.2 91.3 169.6
51 67.5 53.4 80.0

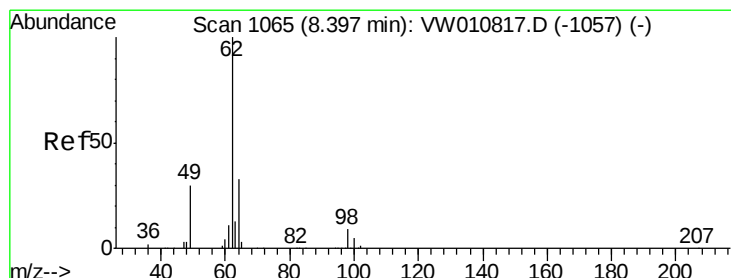
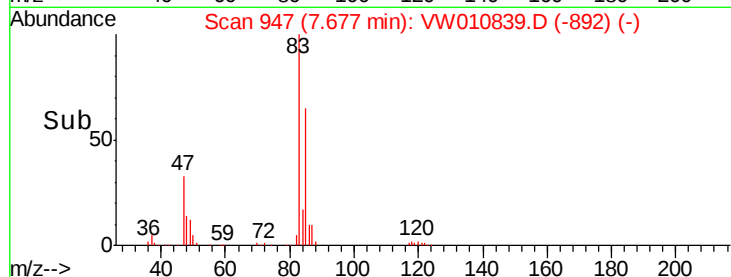
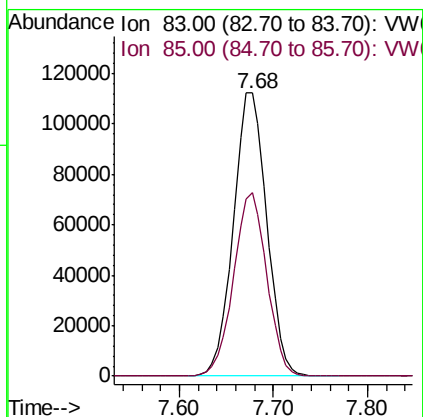
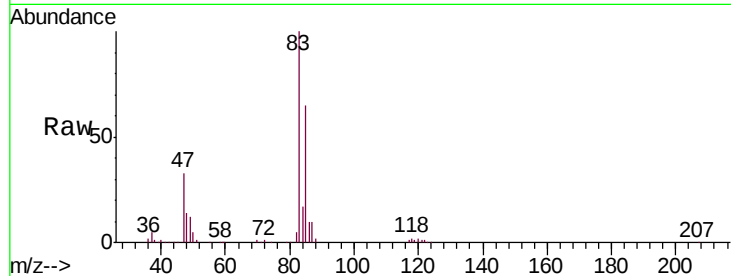




#25
Chloroform
Concen: 23.349 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW010839.D
Acq: 18 Jun 2019 09:54

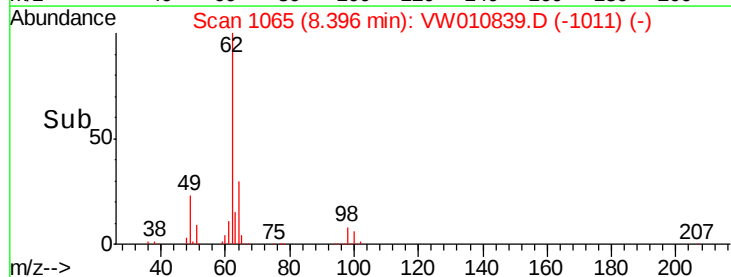
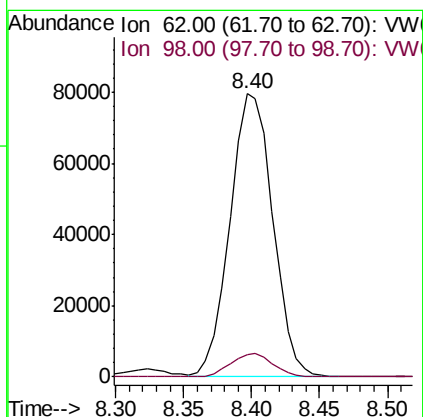
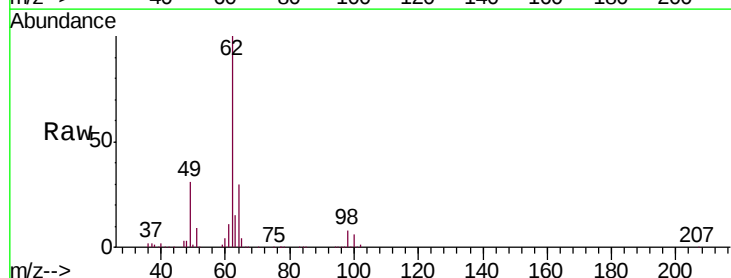
Instrument :
MSVOA_W
ClientSampled :
VSTD02523

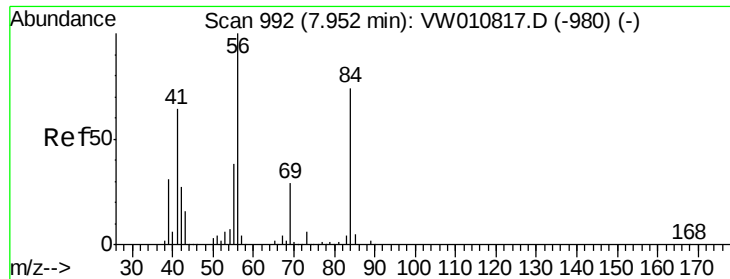
Tgt Ion: 83 Resp: 276116
Ion Ratio Lower Upper
83 100
85 64.5 45.4 84.4



#27
1,2-Dichloroethane
Concen: 23.037 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW010839.D
Acq: 18 Jun 2019 09:54

Tgt Ion: 62 Resp: 174205
Ion Ratio Lower Upper
62 100
98 8.0 6.6 10.0

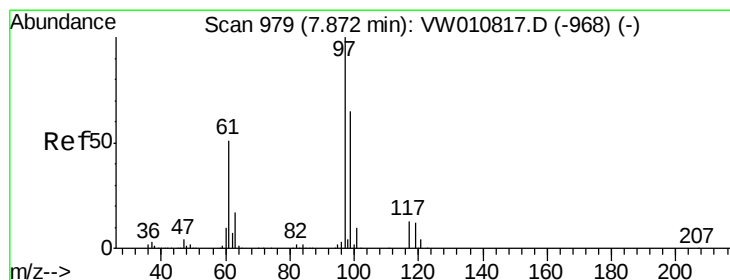
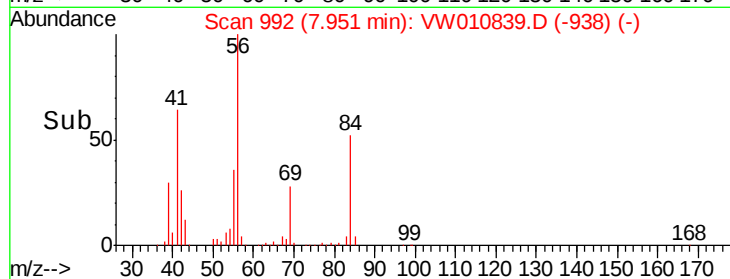
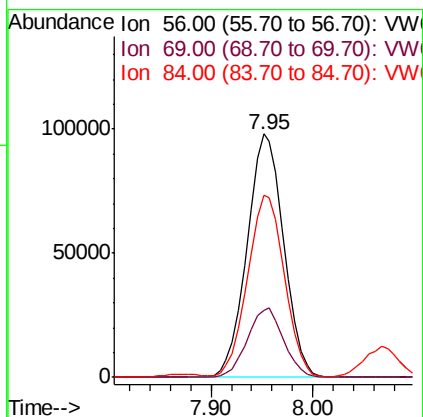
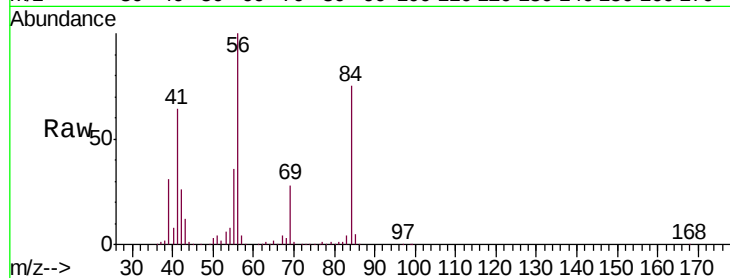




#30
Cyclohexane
Concen: 24.177 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW010839.D
Acq: 18 Jun 2019 09:54

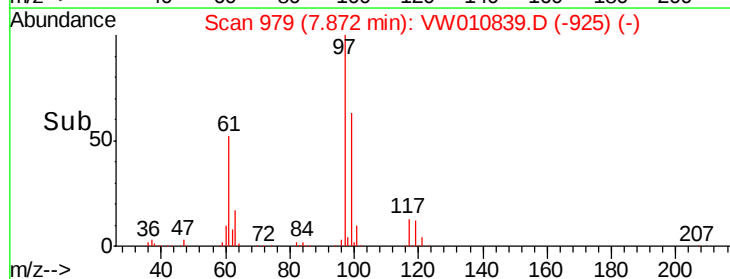
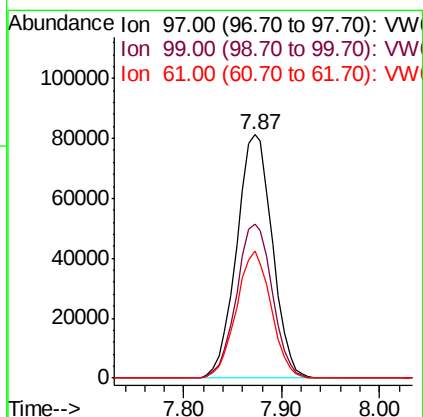
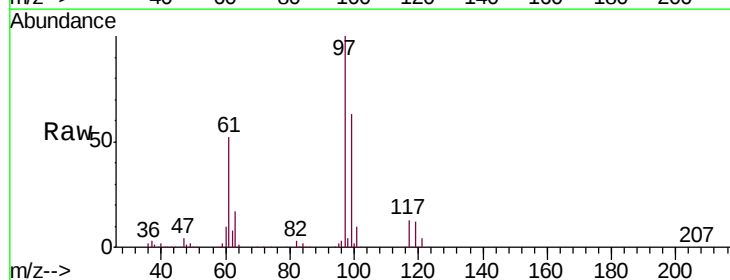
Instrument :
MSVOA_W
ClientSampleId :
VSTD02523

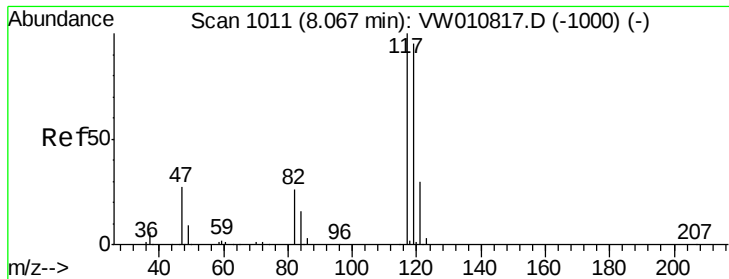
Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.1	22.6	33.8
84	75.4	61.1	91.7



#31
1,1,1-Trichloroethane
Concen: 25.172 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW010839.D
Acq: 18 Jun 2019 09:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.0	76.4
61	51.0	40.4	60.6





#32

Carbon tetrachloride

Concen: 25.317 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

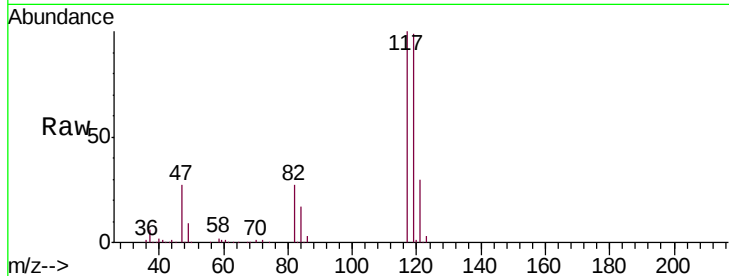
VSTD02523

Tgt Ion:117 Resp: 172523

Ion Ratio Lower Upper

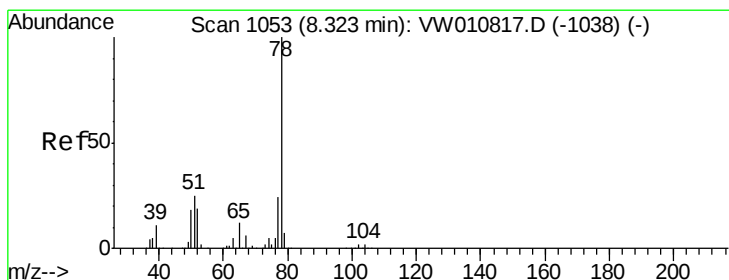
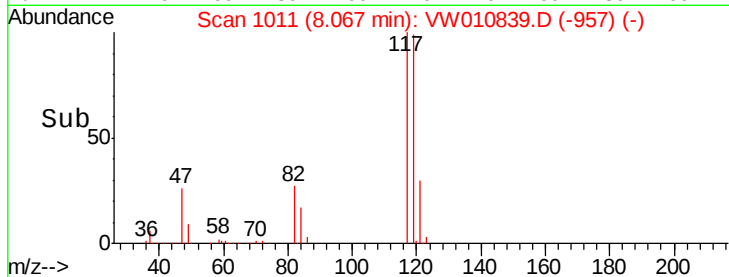
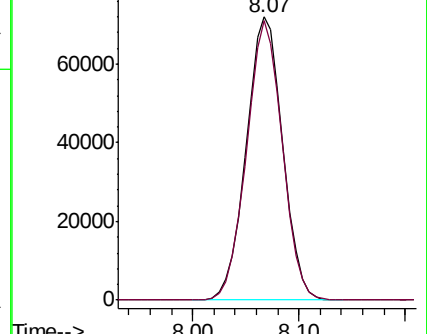
117 100

119 96.9 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: 24.275 ug/L

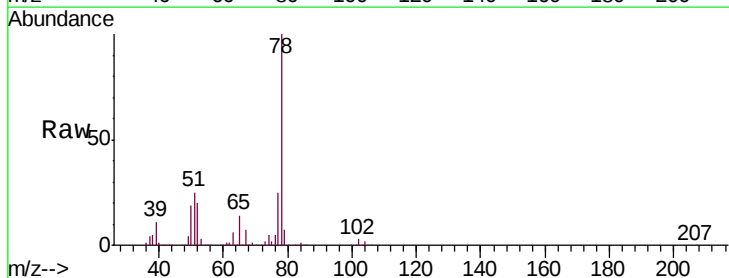
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

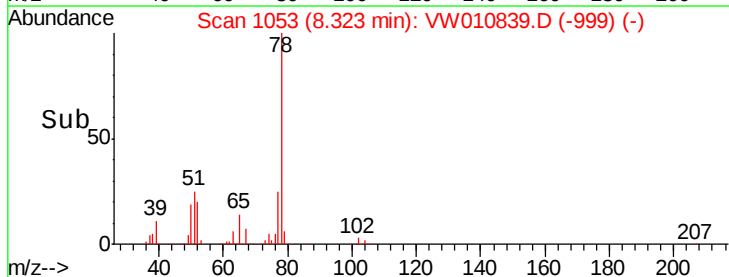
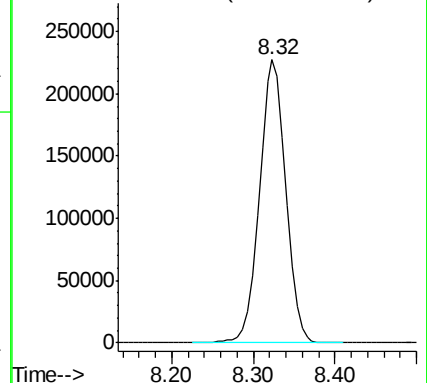
Lab File: VW010839.D

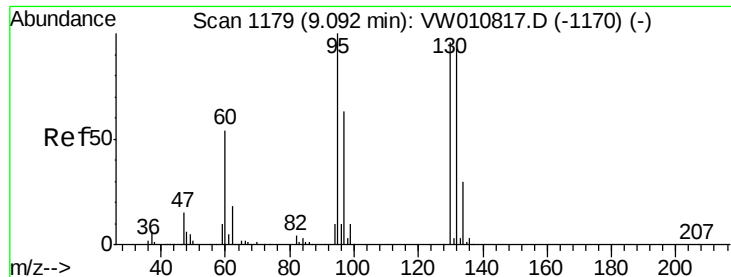
Acq: 18 Jun 2019 09:54

Tgt Ion: 78 Resp: 510602



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.136 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

Tgt Ion: 95 Resp: 130099

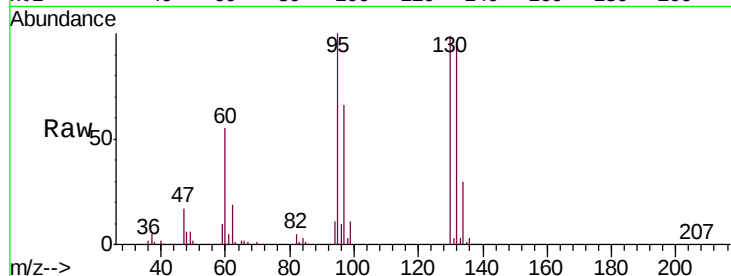
Ion Ratio Lower Upper

95 100

97 64.9 45.4 84.2

132 92.2 65.0 120.6

130 95.6 68.3 126.9

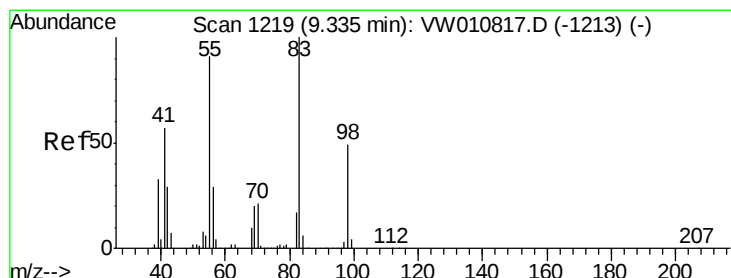
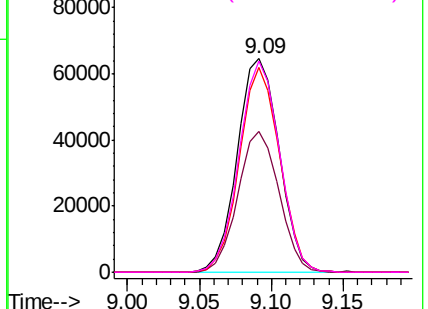
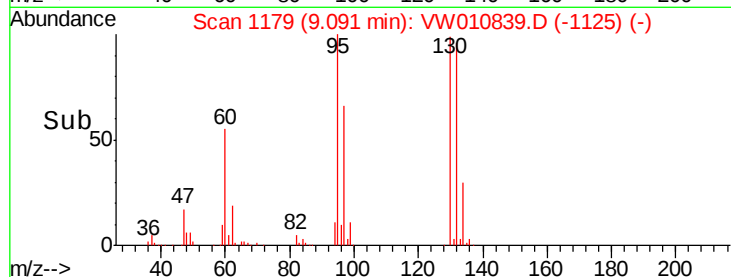


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 24.098 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

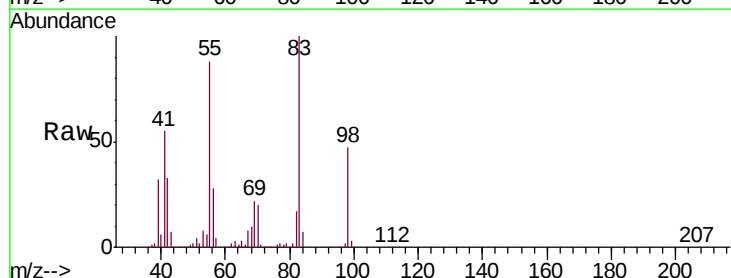
Tgt Ion: 83 Resp: 228843

Ion Ratio Lower Upper

83 100

55 88.7 71.6 107.4

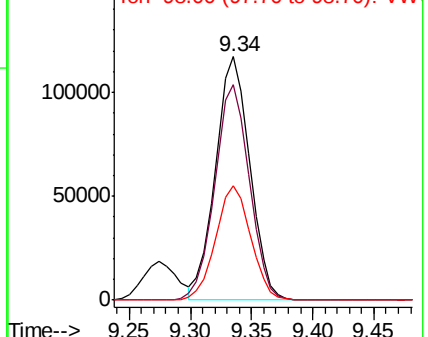
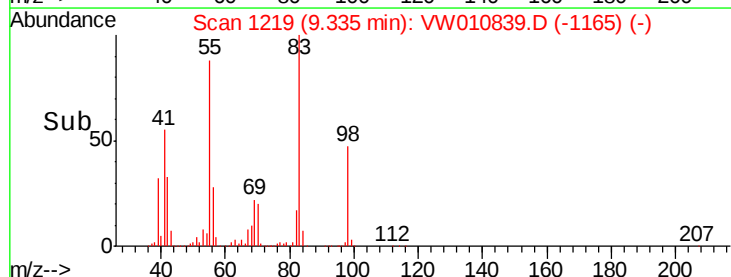
98 47.9 38.2 57.2

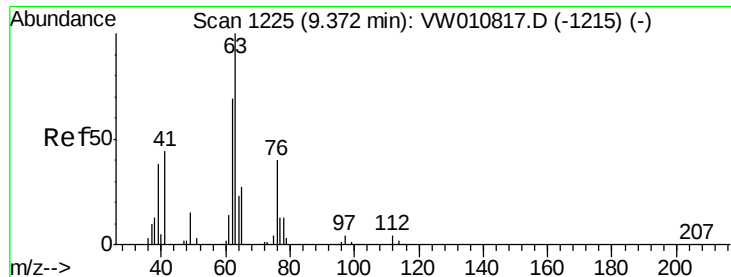


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

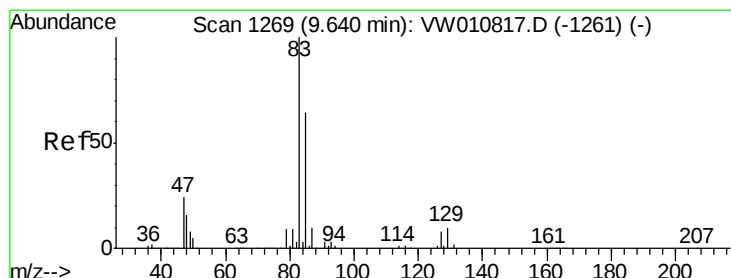
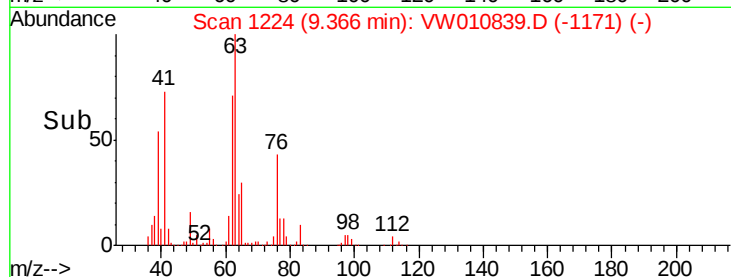
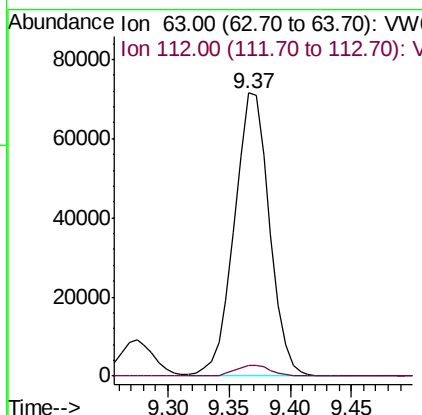
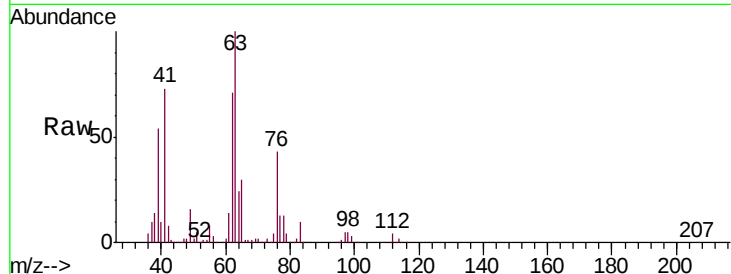




#40
 1,2-Dichloropropane
 Concen: 24.262 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.01 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

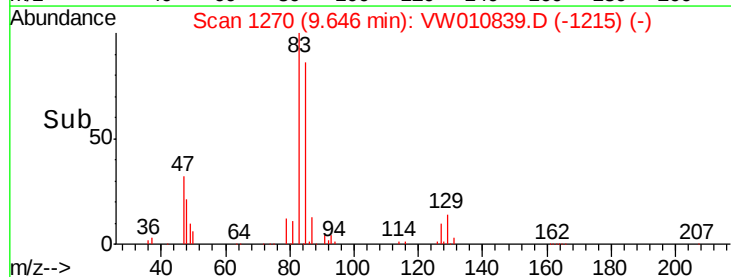
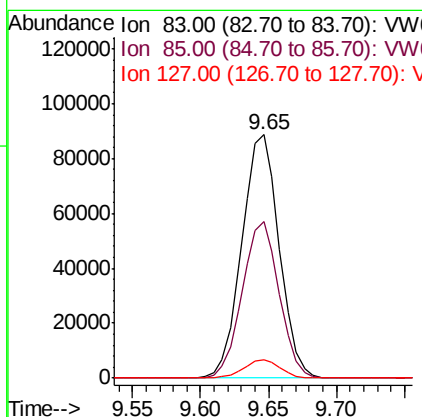
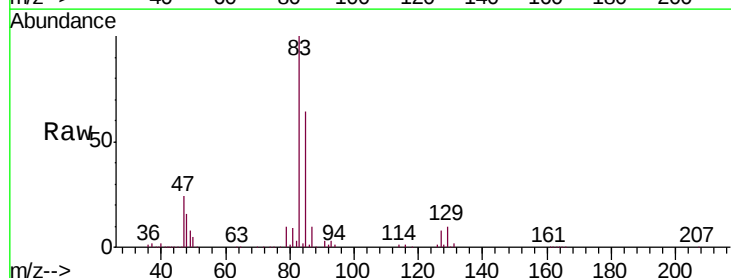
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02523

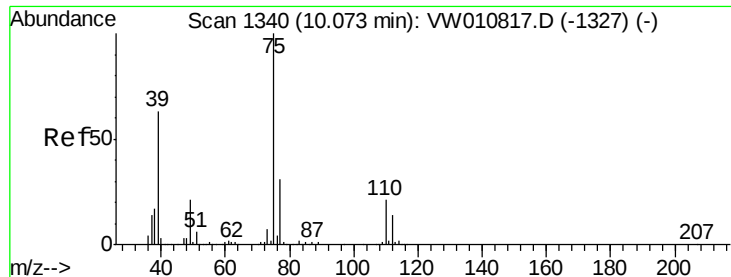
Tgt Ion: 63 Resp: 142239
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.1 4.7



#41
 Bromodichloromethane
 Concen: 24.705 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

Tgt Ion: 83 Resp: 170548
 Ion Ratio Lower Upper
 83 100
 85 64.4 44.7 82.9
 127 7.6 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 24.174 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

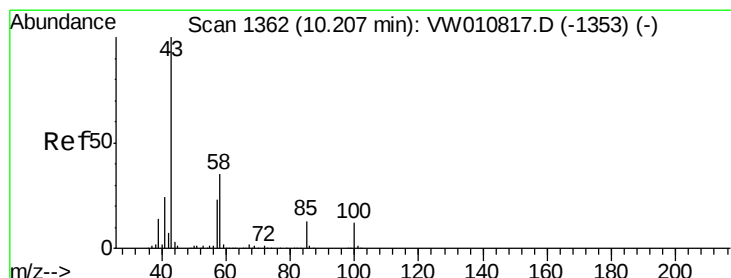
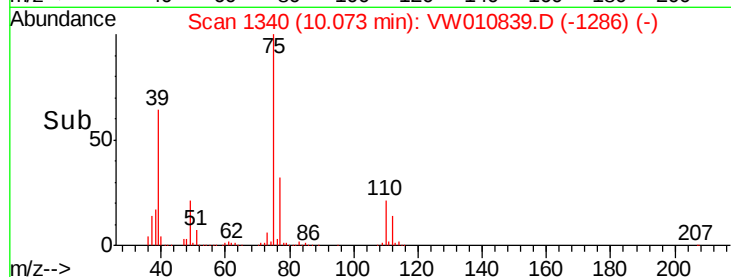
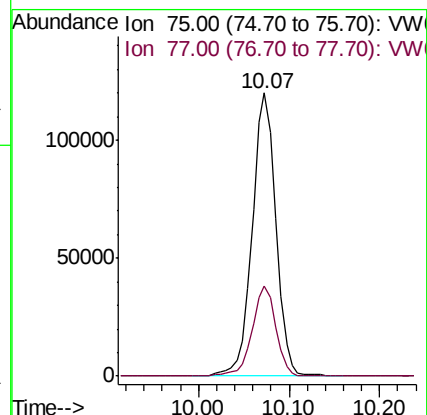
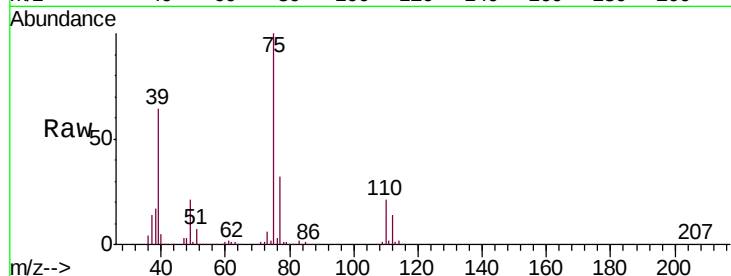
VSTD02523

Tgt Ion: 75 Resp: 216952

Ion Ratio Lower Upper

75 100

77 31.6 22.0 41.0



#43

4-Methyl-2-pentanone

Concen: 45.798 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

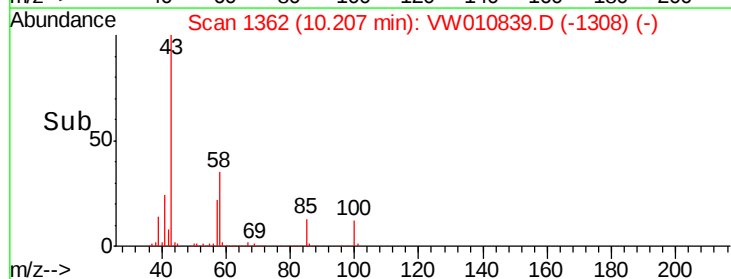
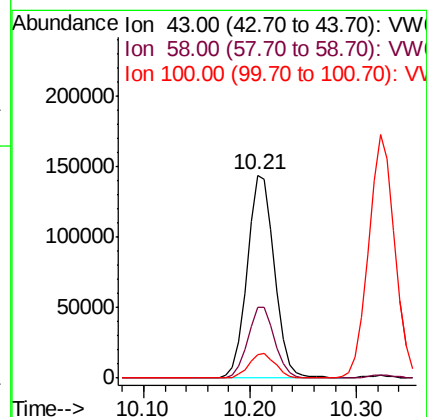
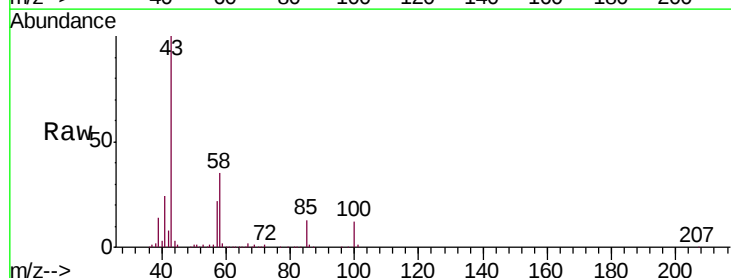
Tgt Ion: 43 Resp: 257974

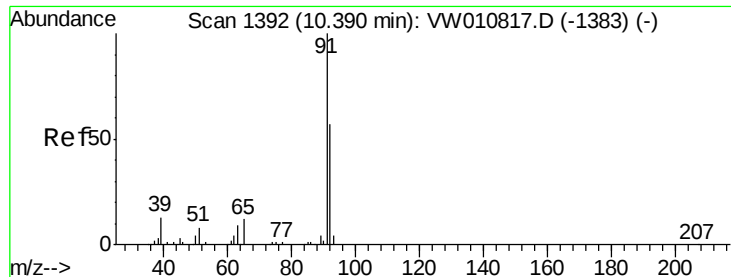
Ion Ratio Lower Upper

43 100

58 34.7 28.0 42.0

100 12.0 9.8 14.6





#44

Toluene

Concen: 24.347 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

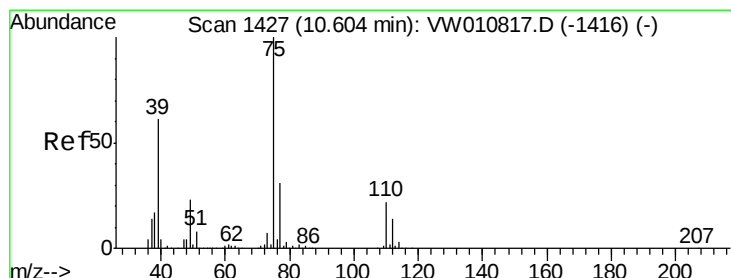
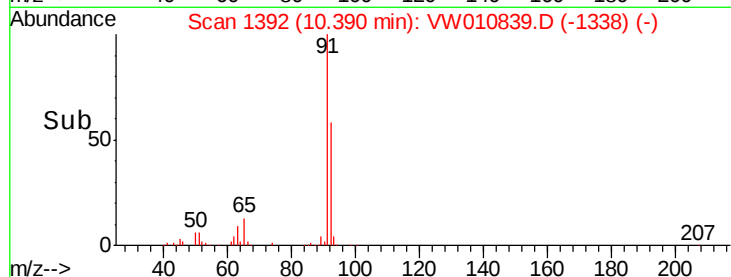
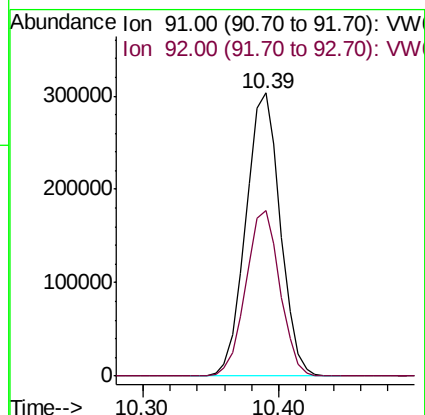
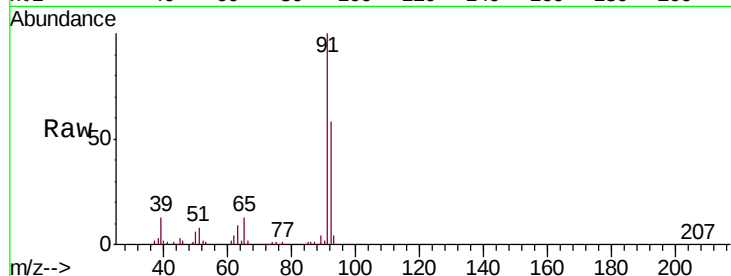
VSTD02523

Tgt Ion: 91 Resp: 536352

Ion Ratio Lower Upper

91 100

92 58.3 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 24.766 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW010839.D

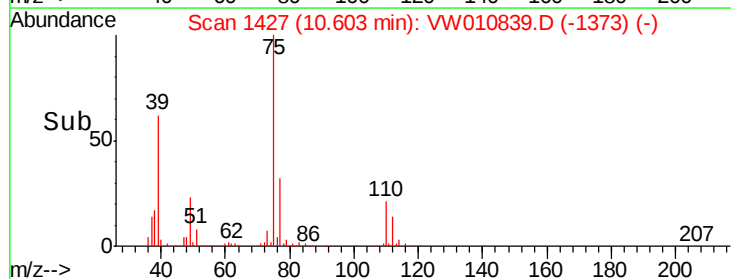
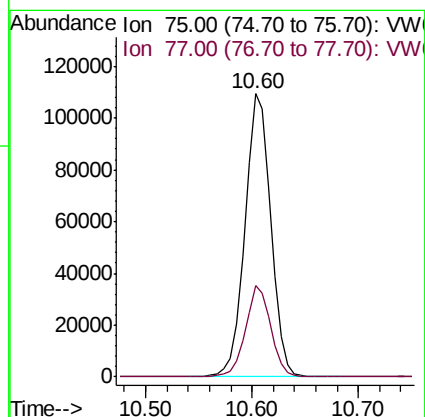
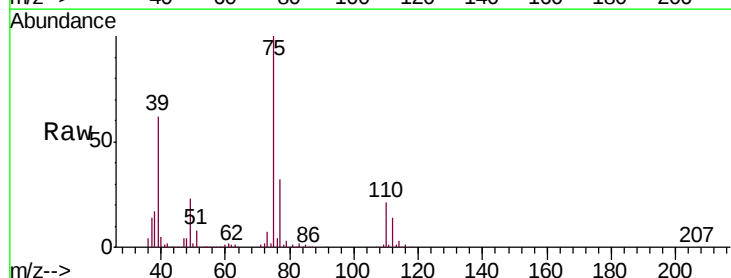
Acq: 18 Jun 2019 09:54

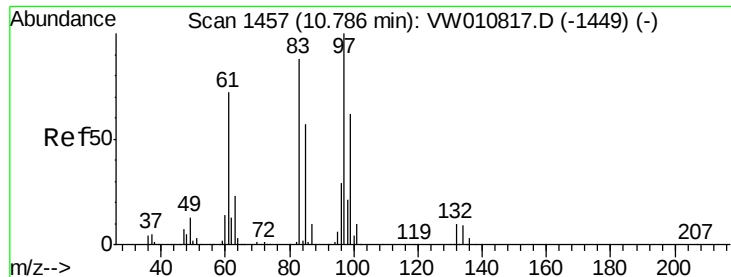
Tgt Ion: 75 Resp: 187152

Ion Ratio Lower Upper

75 100

77 32.1 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 23.249 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

Tgt Ion: 97 Resp: 97030

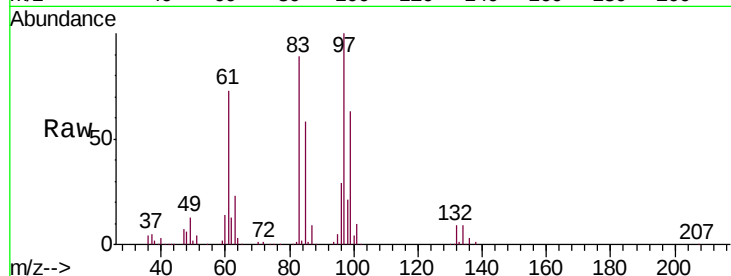
Ion Ratio Lower Upper

97 100

83 89.4 60.8 113.0

85 57.7 39.8 73.8

99 63.2 42.7 79.3



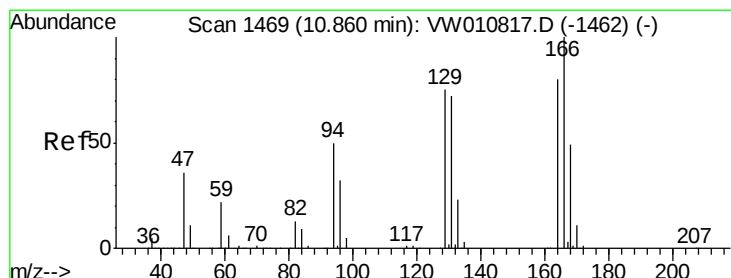
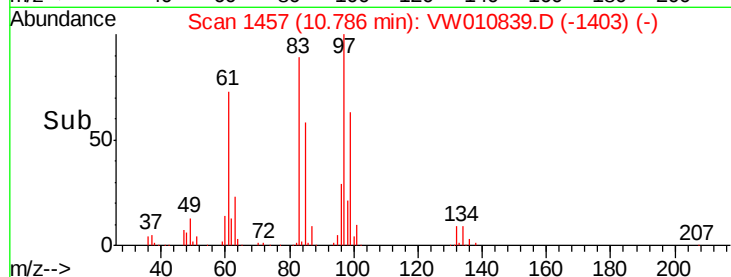
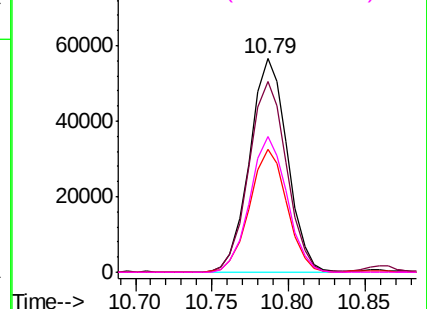
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 24.204 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Tgt Ion: 164 Resp: 97764

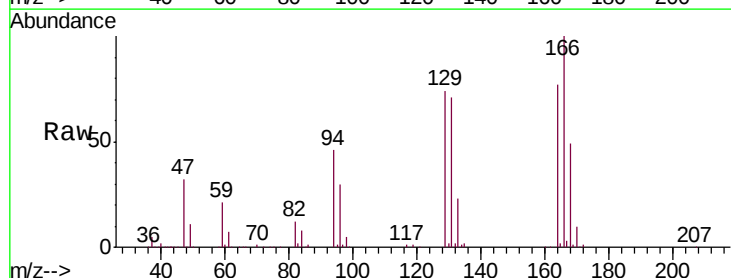
Ion Ratio Lower Upper

164 100

129 96.2 64.5 119.7

131 92.2 63.6 118.0

166 130.3 85.8 159.3



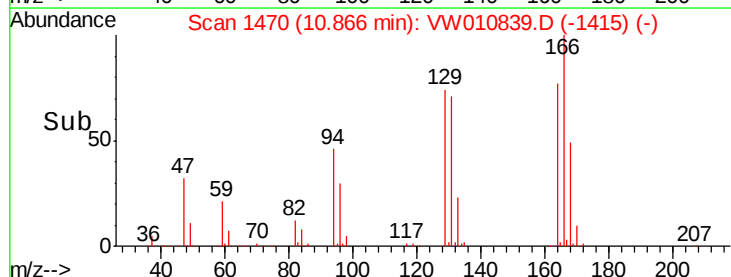
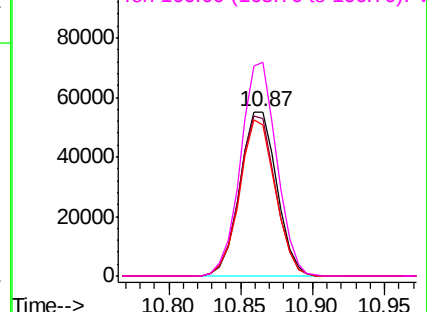
Abundance

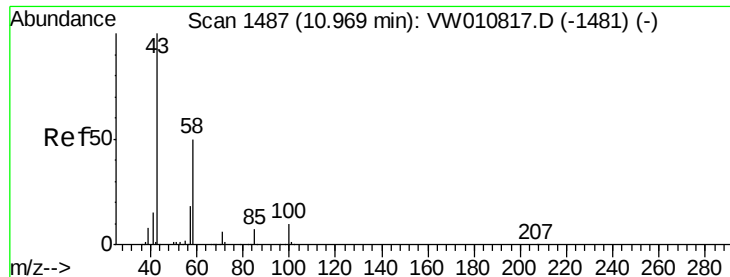
Ion 164.00 (163.70 to 164.70): V

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: 47.226 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

Tgt Ion: 43 Resp: 197196

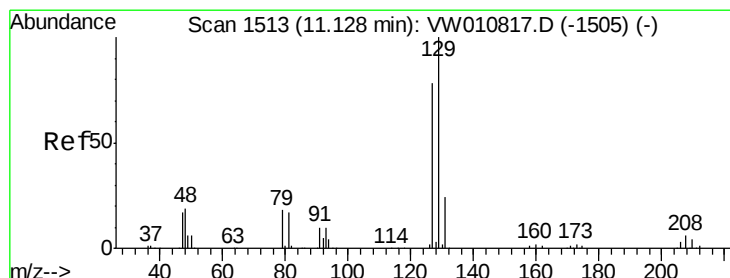
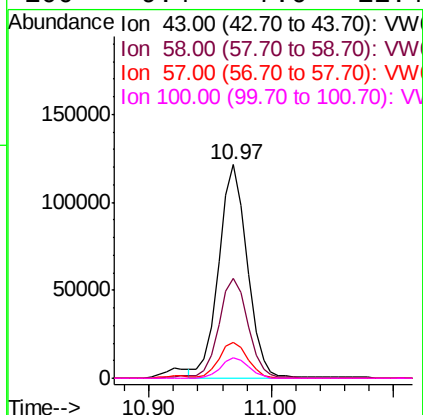
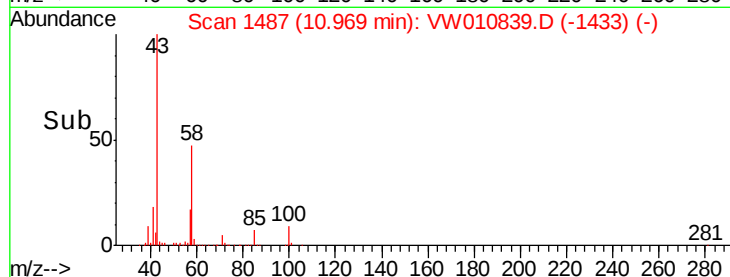
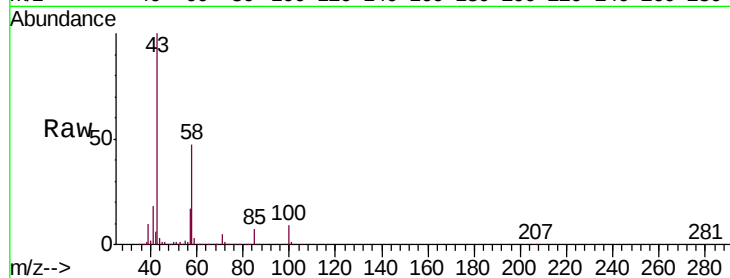
Ion Ratio Lower Upper

43 100

58 47.2 39.5 59.3

57 17.0 13.8 20.8

100 9.4 7.6 11.4



#50

Dibromochloromethane

Concen: 23.948 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW010839.D

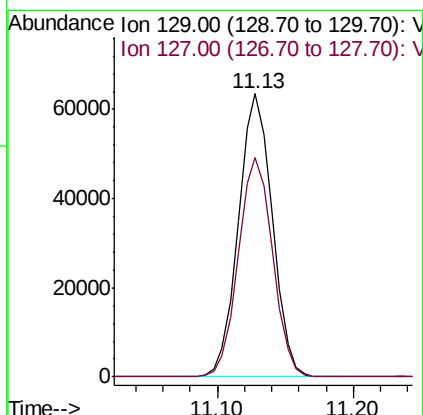
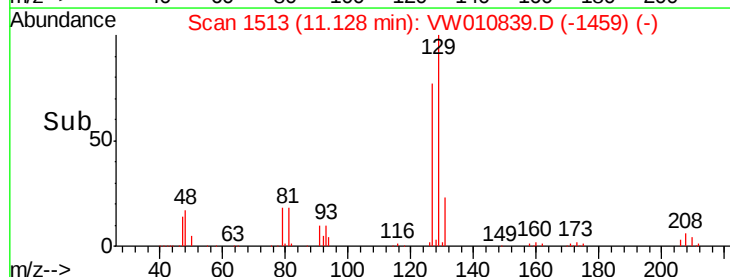
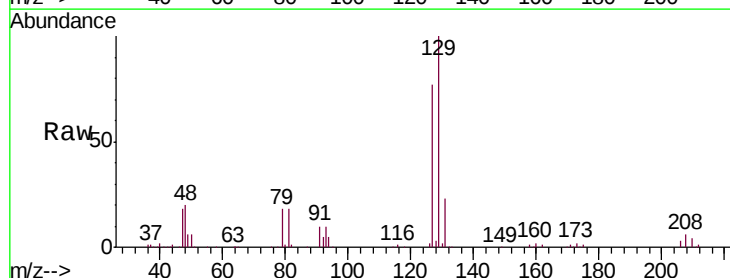
Acq: 18 Jun 2019 09:54

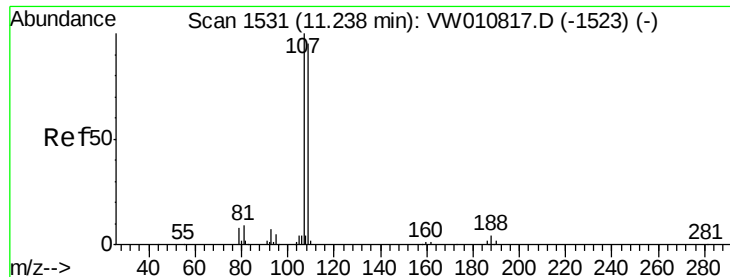
Tgt Ion: 129 Resp: 110766

Ion Ratio Lower Upper

129 100

127 77.3 53.1 98.7

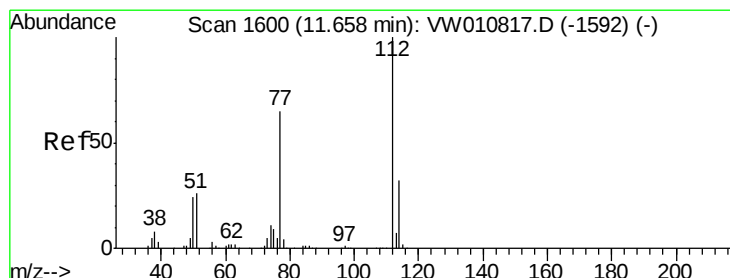
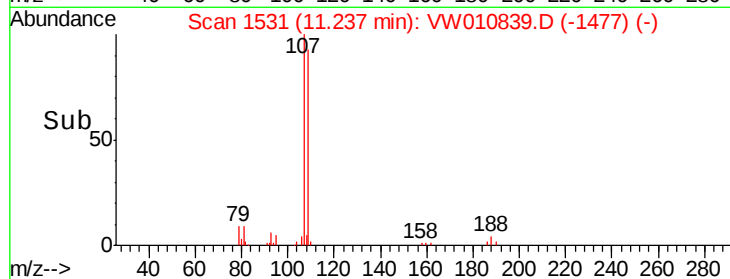
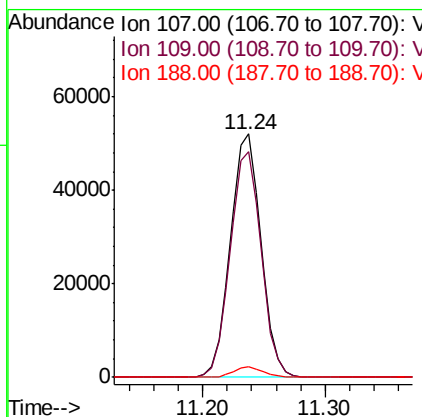
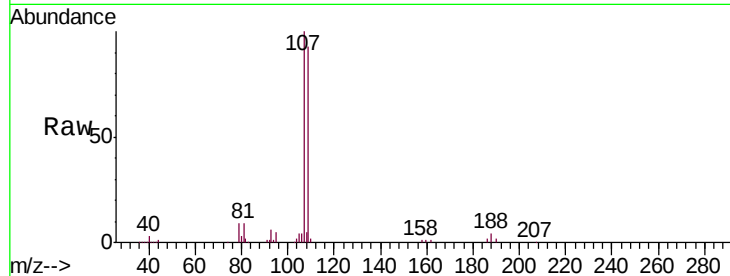




#51
 1,2-Dibromoethane
 Concen: 22.545 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

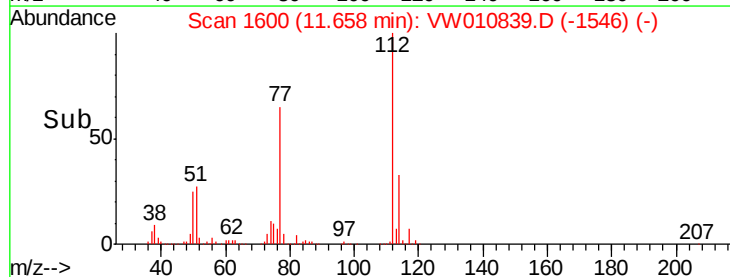
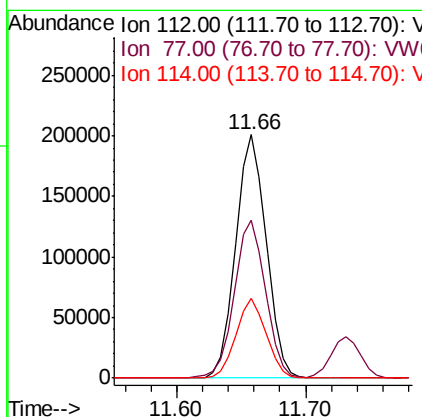
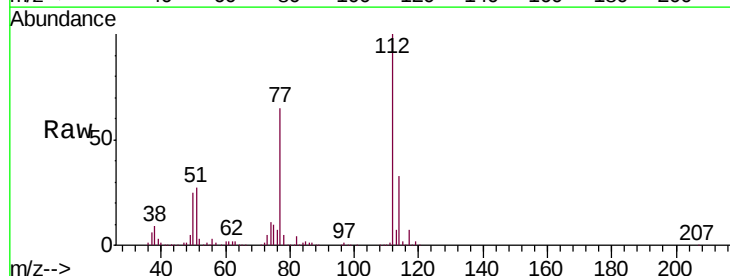
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02523

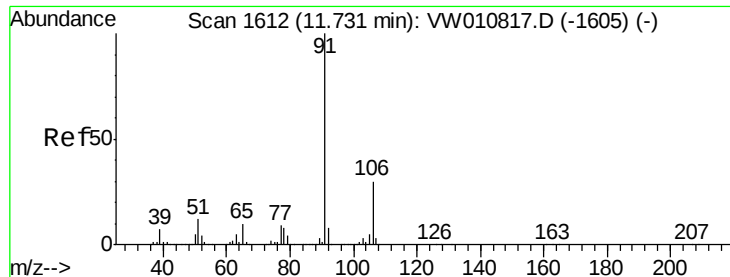
Tgt Ion:107 Resp: 90095
 Ion Ratio Lower Upper
 107 100
 109 92.6 66.0 122.6
 188 4.2 3.1 4.7



#52
 Chlorobenzene
 Concen: 24.039 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

Tgt Ion:112 Resp: 330165
 Ion Ratio Lower Upper
 112 100
 77 64.8 51.8 77.8
 114 32.9 22.1 41.1





#53

Ethylbenzene

Concen: 24.572 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

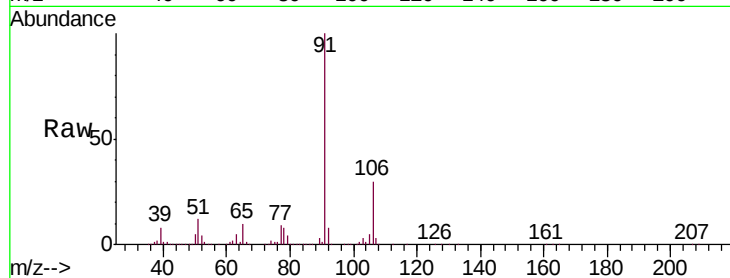
VSTD02523

Tgt Ion: 91 Resp: 619503

Ion Ratio Lower Upper

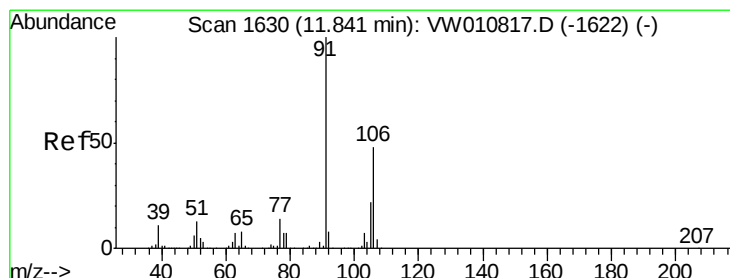
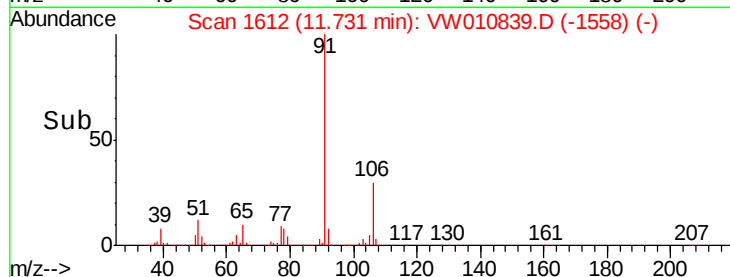
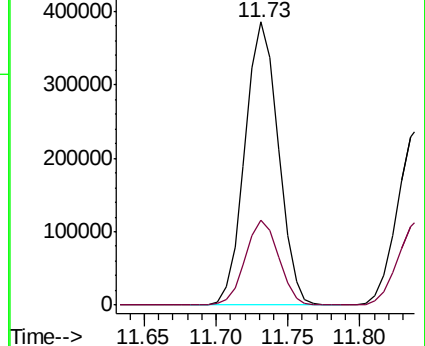
91 100

106 29.9 21.1 39.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 24.352 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW010839.D

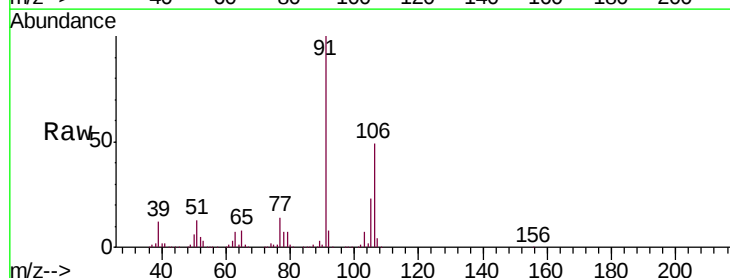
Acq: 18 Jun 2019 09:54

Tgt Ion: 106 Resp: 221249

Ion Ratio Lower Upper

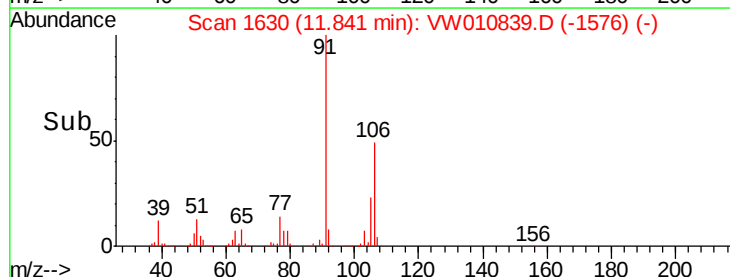
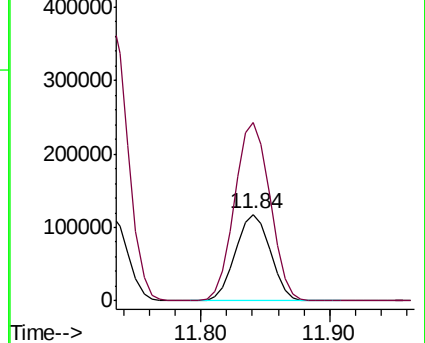
106 100

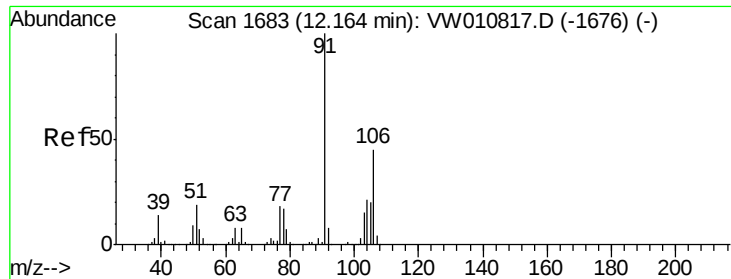
91 205.6 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 24.413 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampled :

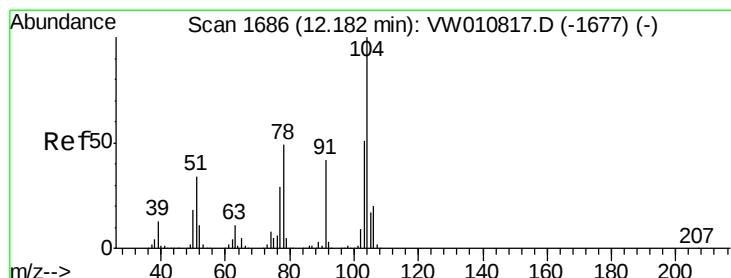
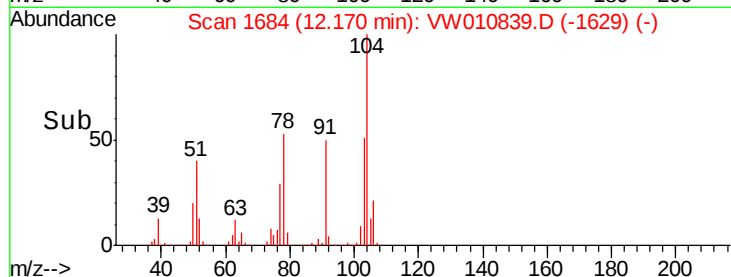
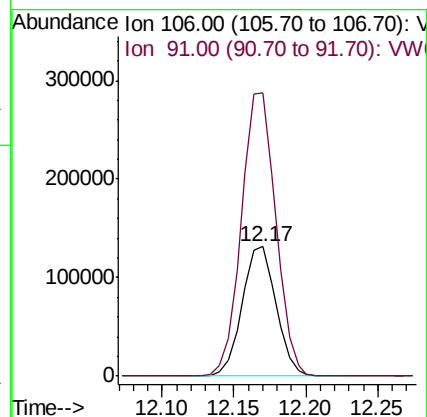
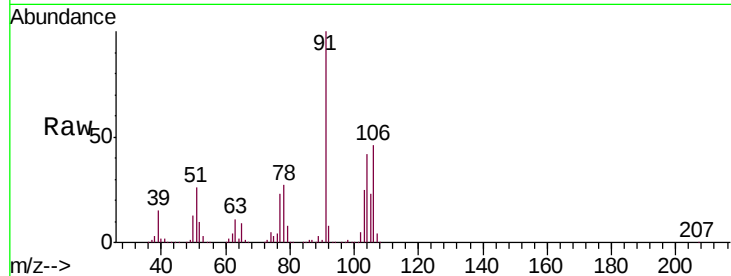
VSTD02523

Tgt Ion:106 Resp: 215075

Ion Ratio Lower Upper

106 100

91 218.8 157.8 293.1



#56

Styrene

Concen: 24.180 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW010839.D

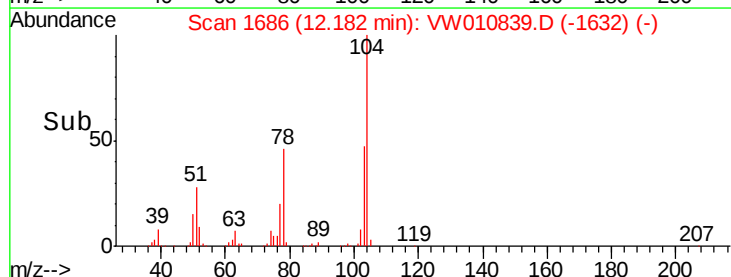
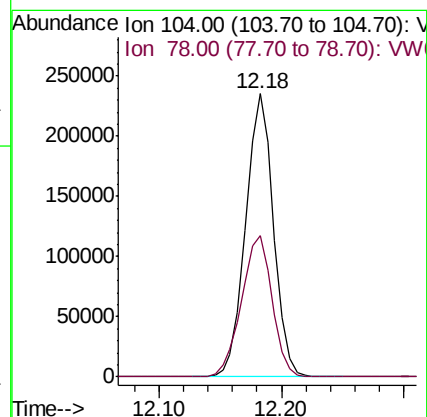
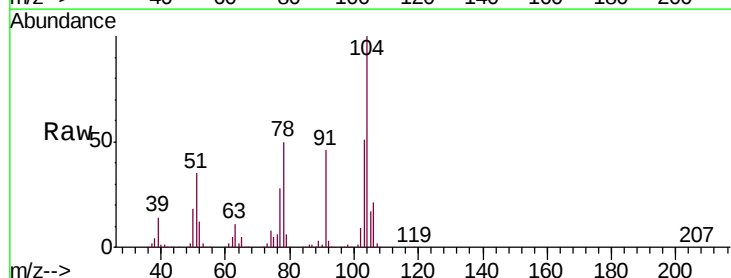
Acq: 18 Jun 2019 09:54

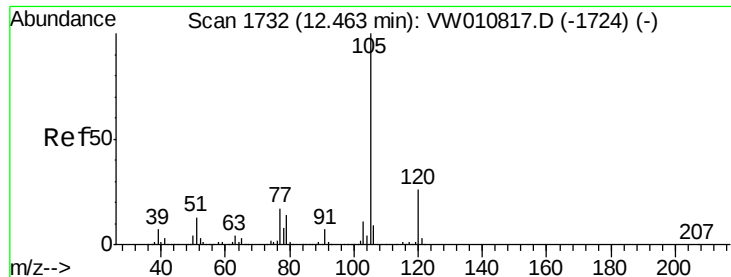
Tgt Ion:104 Resp: 370689

Ion Ratio Lower Upper

104 100

78 49.8 34.2 63.4





#57

Isopropylbenzene

Concen: 24.886 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

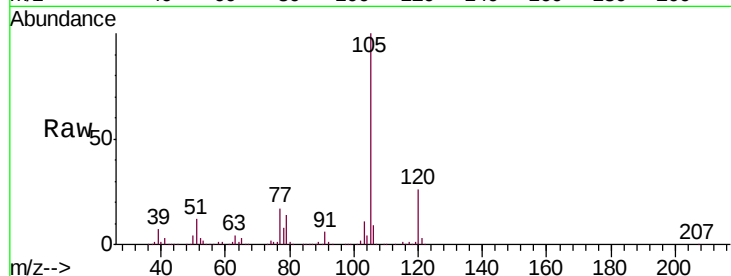
Tgt Ion: 105 Resp: 600304

Ion Ratio Lower Upper

105 100

120 26.0 20.5 30.7

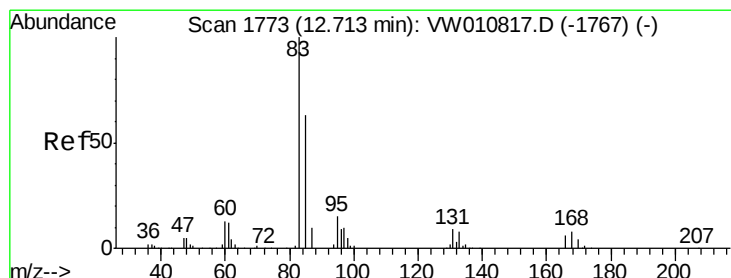
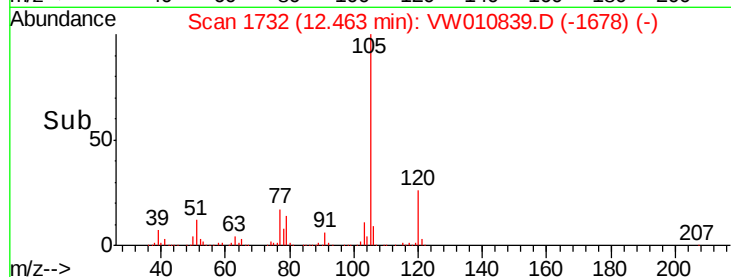
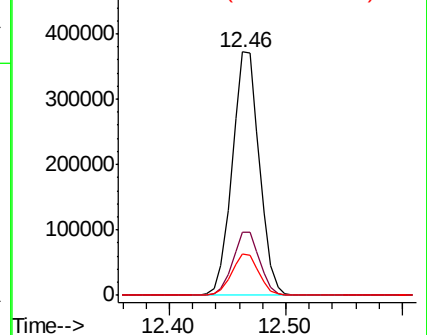
77 17.1 13.6 20.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 23.446 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

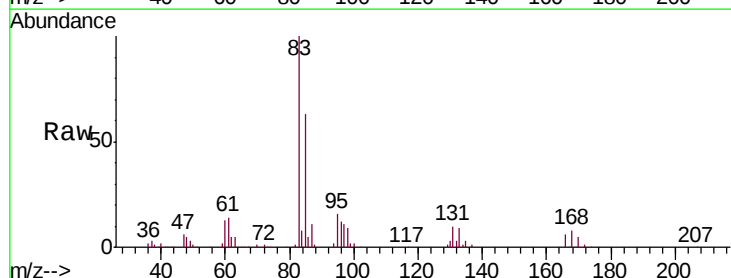
Tgt Ion: 83 Resp: 131104

Ion Ratio Lower Upper

83 100

85 62.7 44.0 81.6

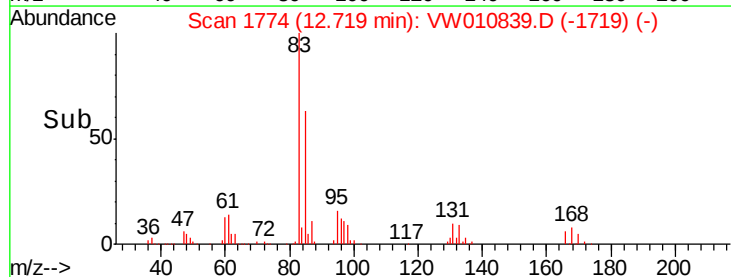
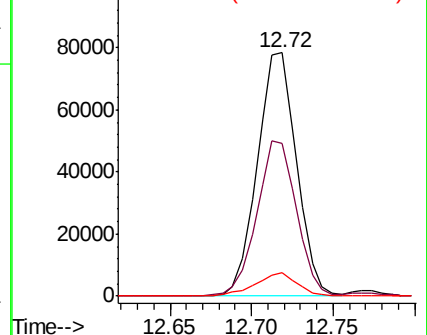
131 9.5 7.0 10.6

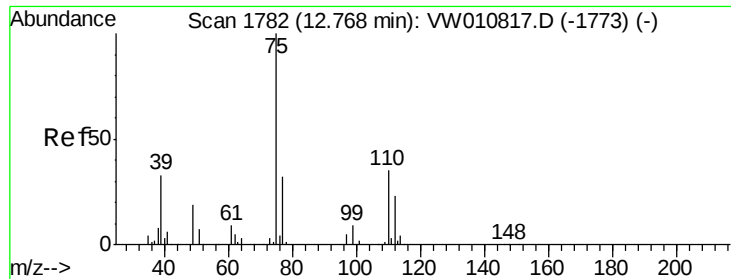


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.395 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

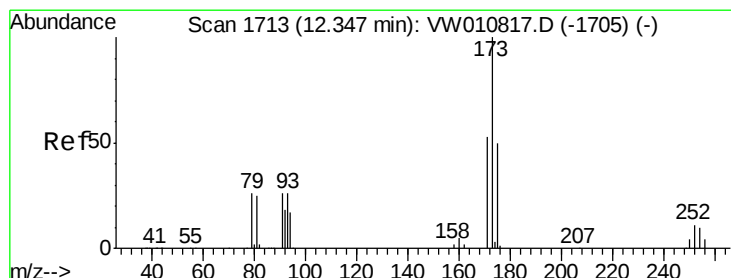
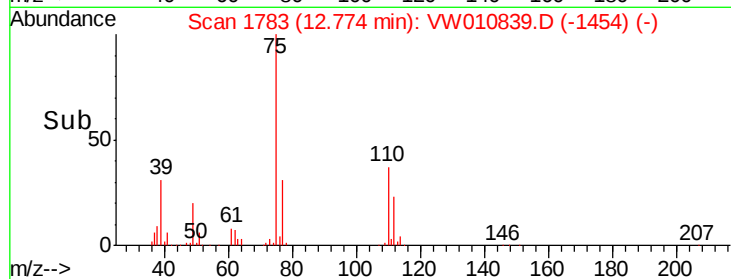
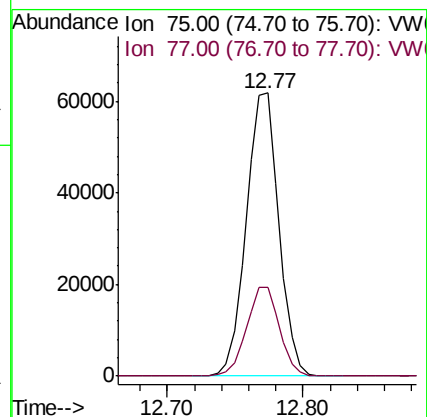
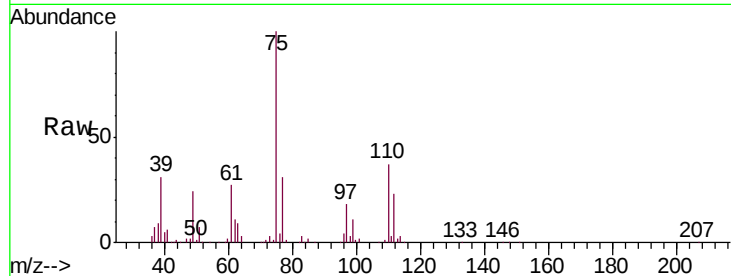
VSTD02523

Tgt Ion: 75 Resp: 103417

Ion Ratio Lower Upper

75 100

77 31.8 25.6 38.4



#62

Bromoform

Concen: 23.162 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

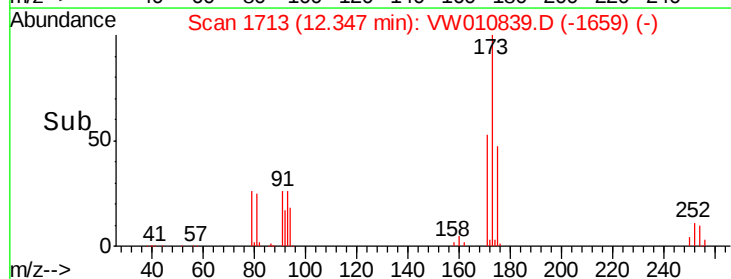
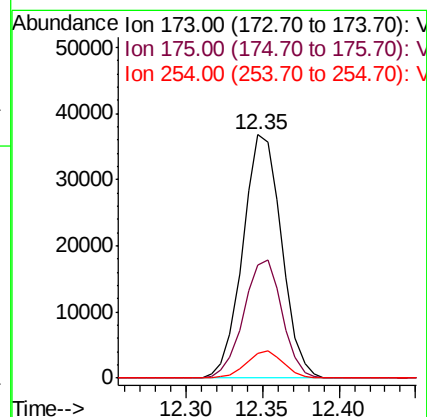
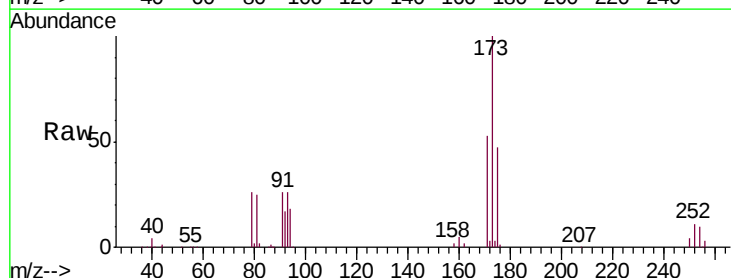
Tgt Ion: 173 Resp: 64778

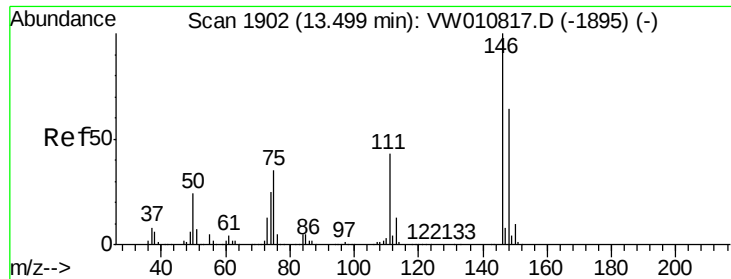
Ion Ratio Lower Upper

173 100

175 48.1 38.7 58.1

254 10.8 8.6 13.0

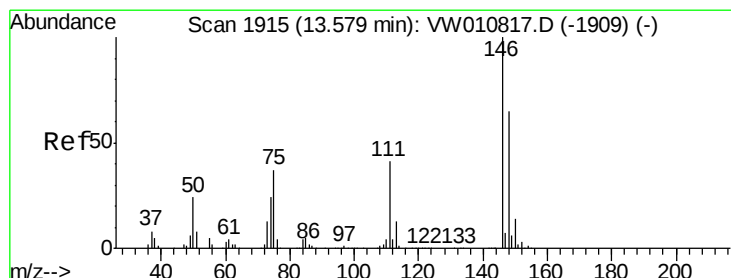
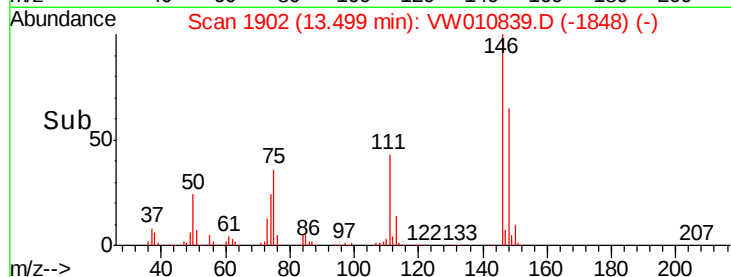
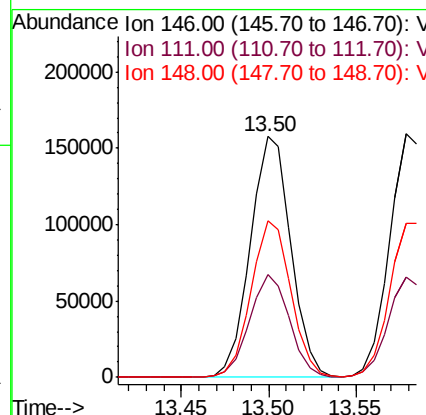
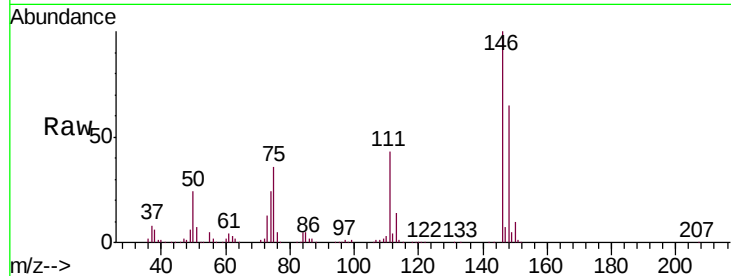




#63
 1,3-Dichlorobenzene
 Concen: 24.018 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

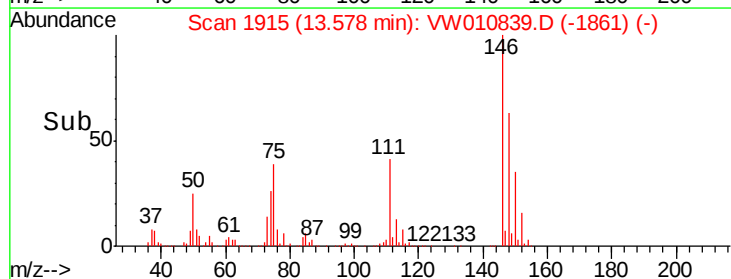
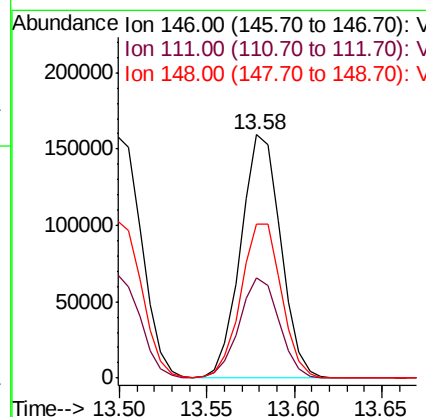
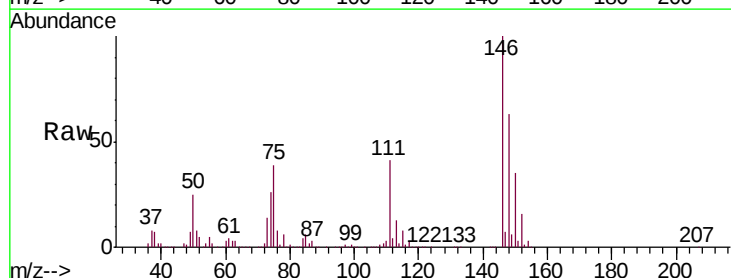
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02523

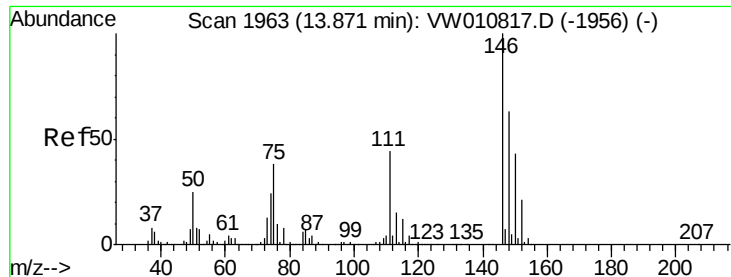
Tgt Ion:146 Resp: 255545
 Ion Ratio Lower Upper
 146 100
 111 42.8 28.6 53.2
 148 65.0 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 23.651 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

Tgt Ion:146 Resp: 254672
 Ion Ratio Lower Upper
 146 100
 111 41.0 29.0 53.9
 148 63.4 44.4 82.4

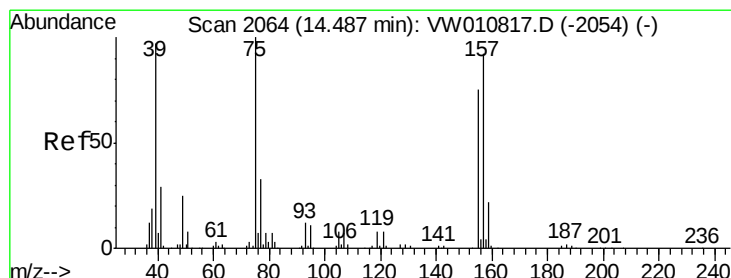
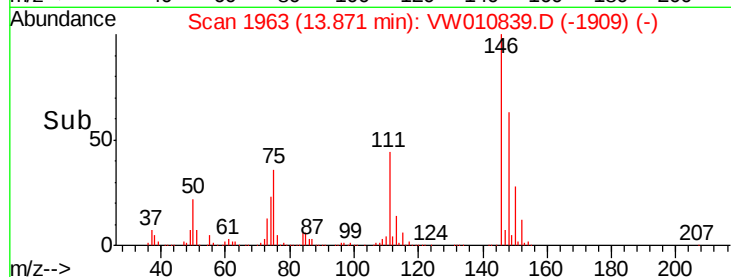
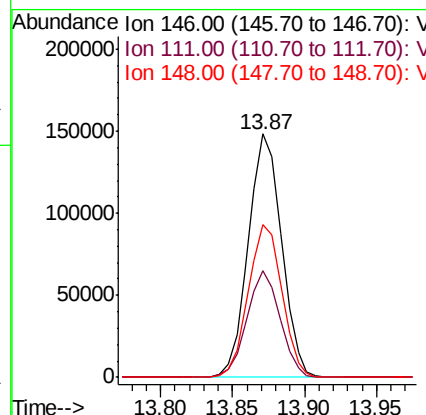
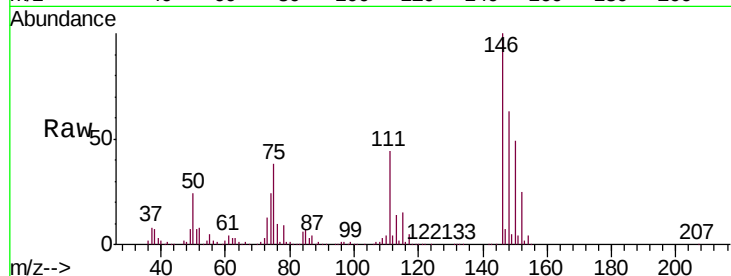




#65
 1,2-Dichlorobenzene
 Concen: 23.783 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

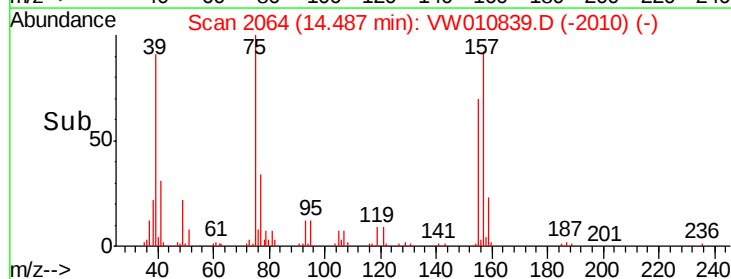
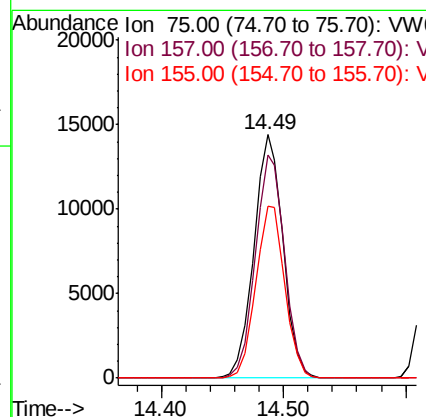
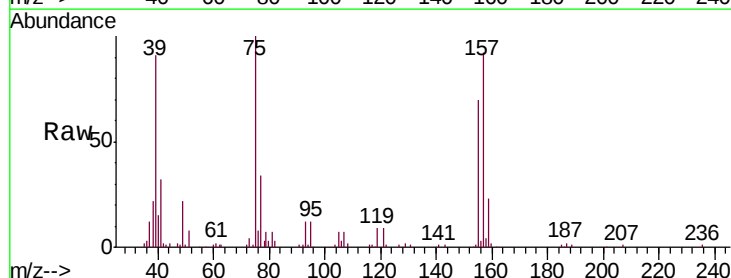
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02523

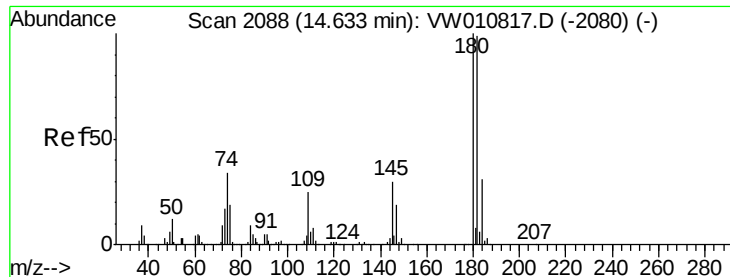
Tgt Ion: 146 Resp: 236740
 Ion Ratio Lower Upper
 146 100
 111 43.7 35.3 52.9
 148 62.9 51.9 77.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.680 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

Tgt Ion: 75 Resp: 23799
 Ion Ratio Lower Upper
 75 100
 157 91.7 79.1 118.7
 155 70.5 62.0 93.0

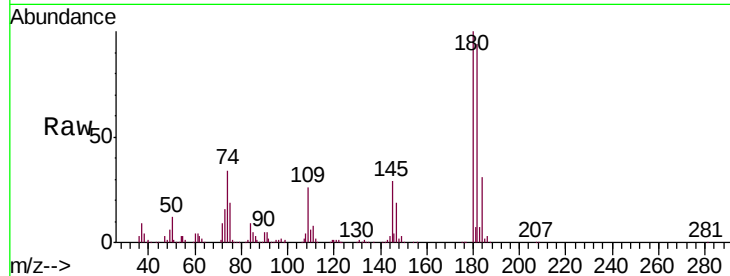




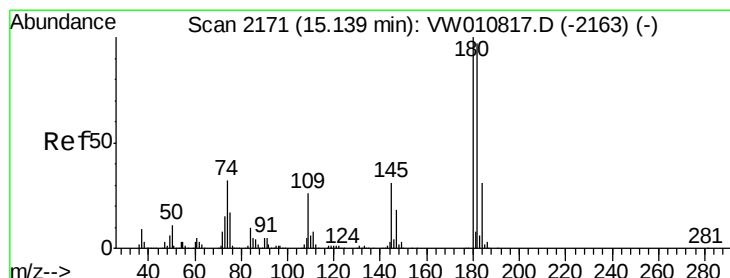
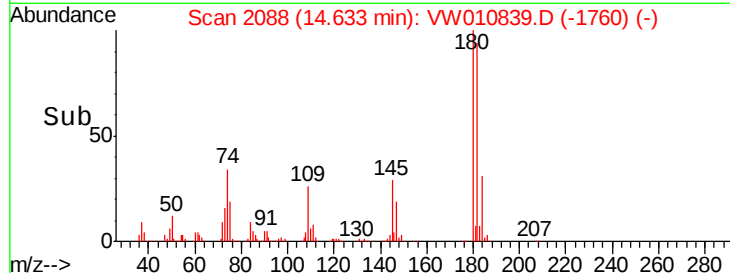
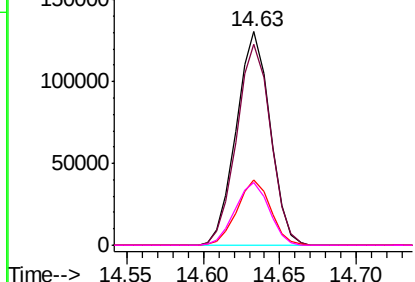
#67
 1,3,5-Trichlorobenzene
 Concen: 24.930 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02523

Tgt Ion:	180	Resp:	201315
Ion Ratio	Lower	Upper	
180	100		
182	94.6	76.5	114.7
184	30.1	24.6	37.0
145	29.7	24.1	36.1

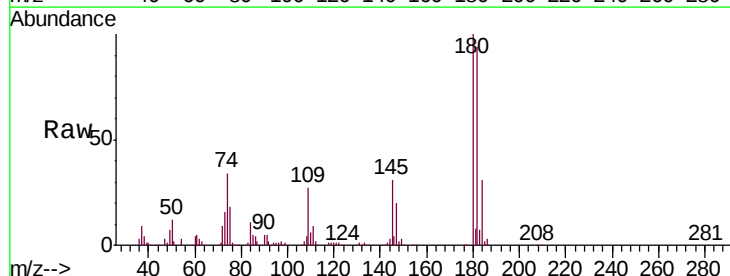


Abundance Ion 180.00 (179.70 to 180.70): V
 200000 Ion 182.00 (181.70 to 182.70): V
 150000 Ion 184.00 (183.70 to 184.70): V
 100000 Ion 145.00 (144.70 to 145.70): V
 50000
 0

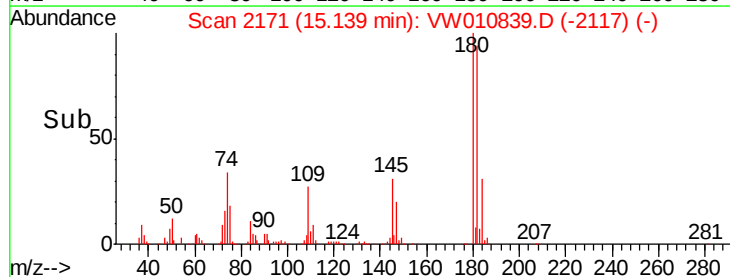
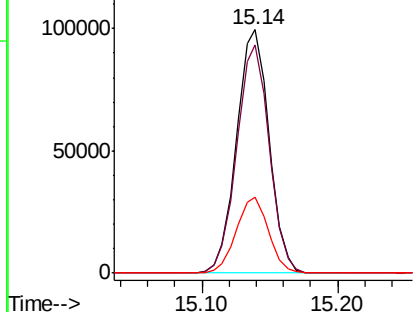


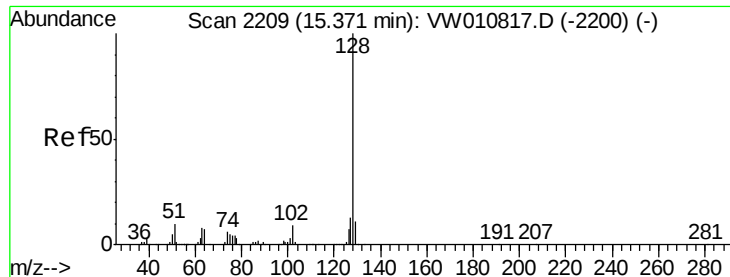
#68
 1,2,4-trichlorobenzene
 Concen: 24.645 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW010839.D
 Acq: 18 Jun 2019 09:54

Tgt Ion:	180	Resp:	166085
Ion Ratio	Lower	Upper	
180	100		
182	93.6	76.4	114.6
145	30.8	24.8	37.2



Abundance Ion 180.00 (179.70 to 180.70): V
 100000 Ion 182.00 (181.70 to 182.70): V
 50000 Ion 145.00 (144.70 to 145.70): V
 0





#69

Naphthalene

Concen: 24.165 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD02523

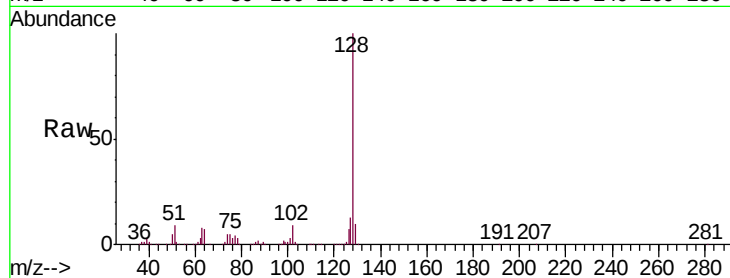
Tgt Ion:128 Resp: 344301

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

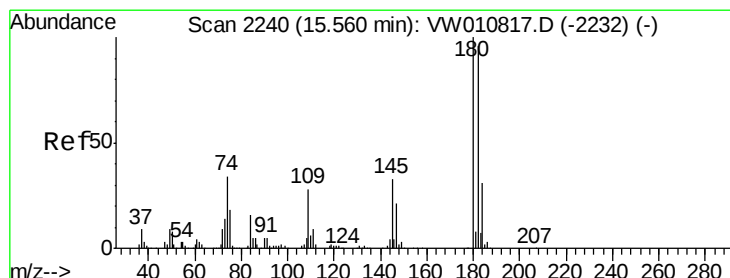
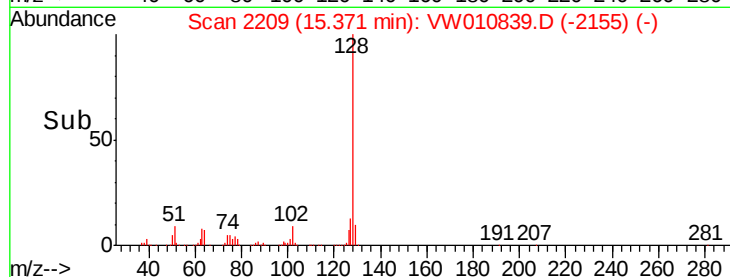
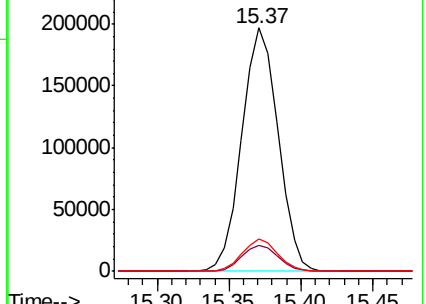
127 13.1 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 24.516 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW010839.D

Acq: 18 Jun 2019 09:54

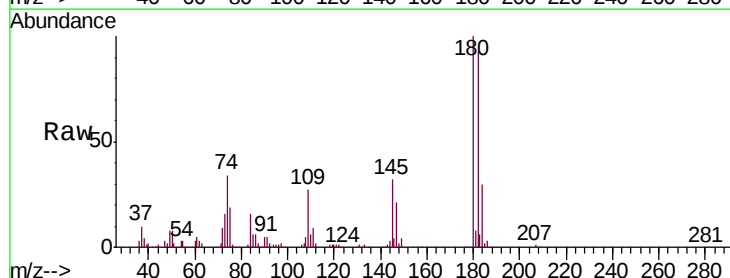
Tgt Ion:180 Resp: 148031

Ion Ratio Lower Upper

180 100

182 94.2 76.6 115.0

145 32.4 25.8 38.8



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

