

Data File : VW005517.D
Acq On : 19 Sep 2018 16:16
Operator : SY/AP
Sample : VSTD02593
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02593

Quant Time: Sep 19 17:16:20 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091918S.M
Quant Title : VOC Analysis
QLast Update : Wed Sep 19 15:19:52 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	467385	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	442673	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	227395	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	161012	29.85	ug/L	0.01
7) Chloroethane-d5	2.89	69	129785	34.03	ug/L	0.01
10) 1,1-Dichloroethene-d2	4.01	63	344113	35.73	ug/L	-0.01
20) 2-Butanone-d5	7.09	46	113038	55.64	ug/L	0.00
24) Chloroform-d	7.65	84	344531	39.52	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	203876	36.57	ug/L	0.00
29) Benzene-d6	8.27	84	697609	39.25	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.28	67	213473	42.08	ug/L	0.00
37) Toluene-d8	10.33	98	655101	36.39	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	97010	38.22	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	89681	56.78	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	179739	33.88	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	236790	34.70	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	145018	15.052	ug/L	96
3) Chloromethane	2.21	50	150230	16.933	ug/L	99
5) Vinyl chloride	2.37	62	145656	17.232	ug/L	99
6) Bromomethane	2.78	94	88511	20.212	ug/L	99
8) Chloroethane	2.93	64	86949	19.367	ug/L	95
9) Trichlorofluoromethane	3.26	101	128327	11.657	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	135359	22.507	ug/L	97
13) Acetone	4.12	43	65884	34.540	ug/L	99
14) Carbon disulfide	4.37	76	402119	20.137	ug/L	97
15) Methyl Acetate	4.67	43	78847	18.736	ug/L	99
16) Methylene chloride	4.91	84	146347	16.488	ug/L	99
17) Methyl tert-butyl Ether	5.43	73	206044	14.592	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	134717	23.719	ug/L	96
19) 1,1-Dichloroethane	6.21	63	263086	25.348	ug/L	96
21) 2-Butanone	7.18	43	98981	33.860	ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	150737	24.867	ug/L	96
23) Bromochloromethane	7.52	128	66301	23.470	ug/L	96
25) Chloroform	7.68	83	266955	24.459	ug/L	99
27) 1,2-Dichloroethane	8.40	62	192647	22.738	ug/L	97
30) Cyclohexane	7.96	56	254099	25.422	ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	219729	21.832	ug/L	100
32) Carbon tetrachloride	8.07	117	208756	22.357	ug/L	99
34) Benzene	8.33	78	589271	23.894	ug/L	100
35) Trichloroethene	9.09	95	150573	23.003	ug/L	99
36) Methylcyclohexane	9.34	83	275148	24.218	ug/L	99
40) 1,2-Dichloropropane	9.37	63	155750	25.582	ug/L	99
41) Bromodichloromethane	9.65	83	190596	24.421	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	234929	26.124	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	222682	38.256	ug/L	99
44) Toluene	10.39	91	632186	22.372	ug/L	100

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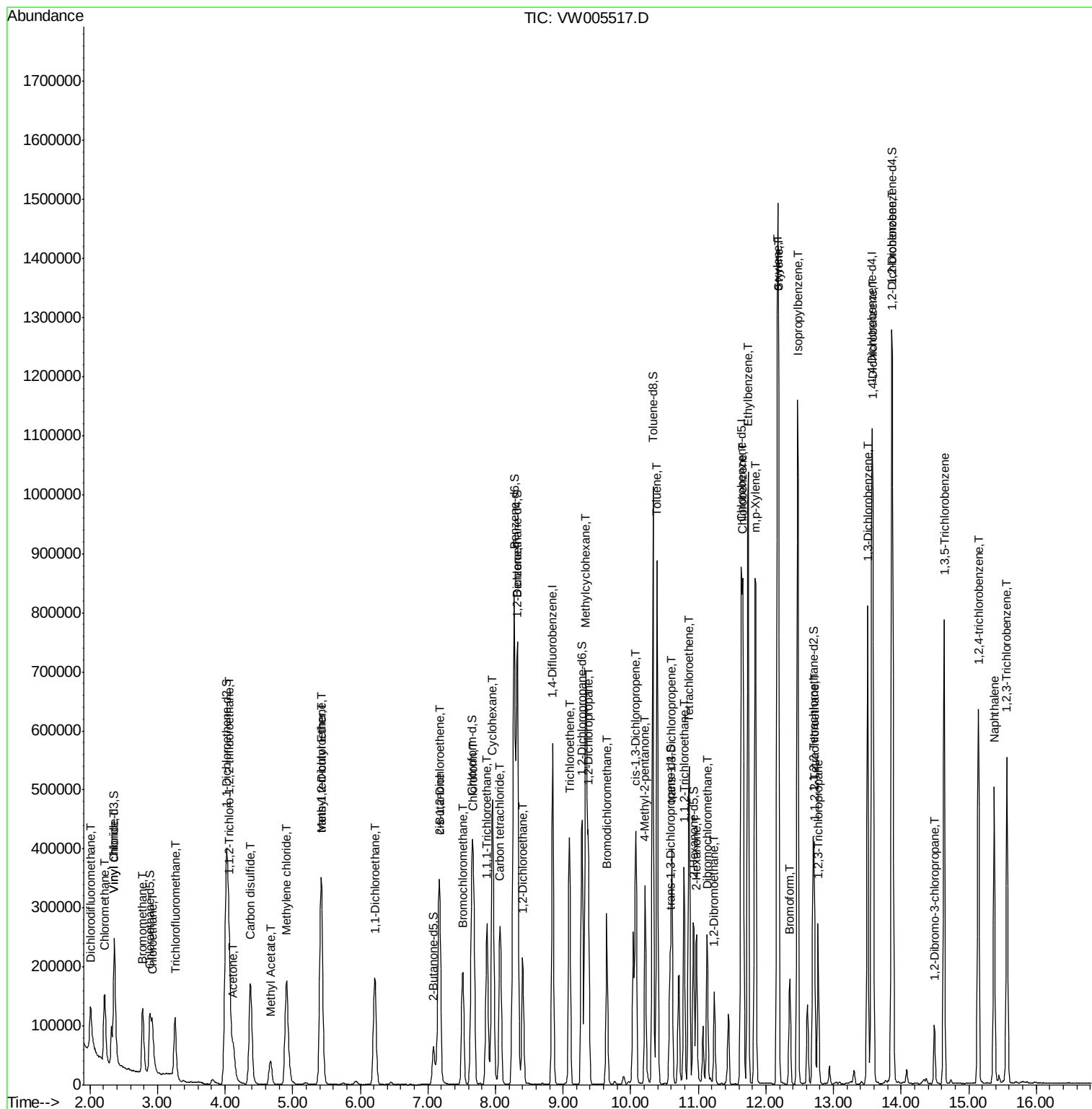
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	10.61	75	209146	24.823	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	112006	23.437	ug/L	99
47) Tetrachloroethene	10.87	164	122416	20.655	ug/L	98
49) 2-Hexanone	10.98	43	164667	38.480	ug/L	97
50) Dibromochloromethane	11.13	129	133884	23.451	ug/L	99
51) 1,2-Dibromoethane	11.24	107	104381	22.253	ug/L	99
52) Chlorobenzene	11.66	112	399468	21.664	ug/L	96
53) Ethylbenzene	11.74	91	723582	22.017	ug/L	100
54) m,p-Xylene	11.84	106	268606	21.828	ug/L	98
55) o-xylene	12.17	106	257498	22.284	ug/L	99
56) Styrene	12.19	104	450922	22.609	ug/L	100
57) Isopropylbenzene	12.47	105	721688	22.484	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.72	83	145758	22.182	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	112721	20.071	ug/L	99
62) Bromoform	12.35	173	81371	21.356	ug/L	98
63) 1,3-Dichlorobenzene	13.51	146	318161	22.004	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	329425	22.074	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	298147	21.538	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.49	75	25415	16.920	ug/L	96
67) 1,3,5-Trichlorobenzene	14.64	180	249141	21.761	ug/L	99
68) 1,2,4-trichlorobenzene	15.15	180	204233	21.582	ug/L	100
69) Naphthalene	15.38	128	415945	20.062	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	190142	21.379	ug/L	100

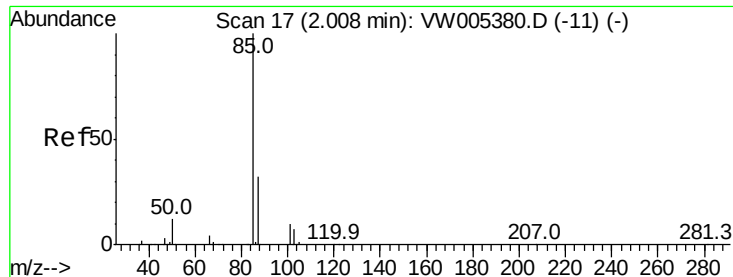
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 15.052 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

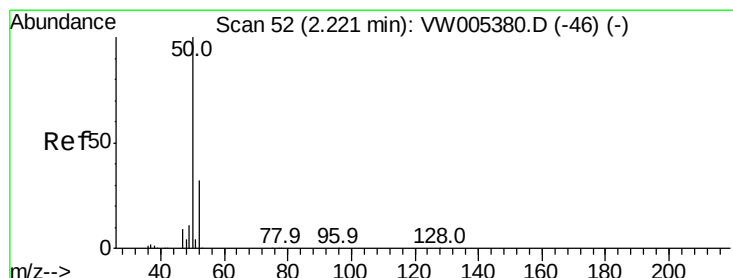
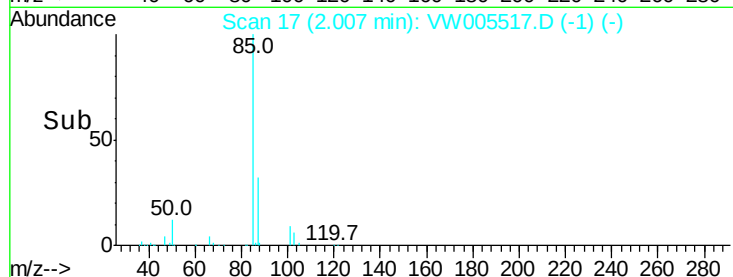
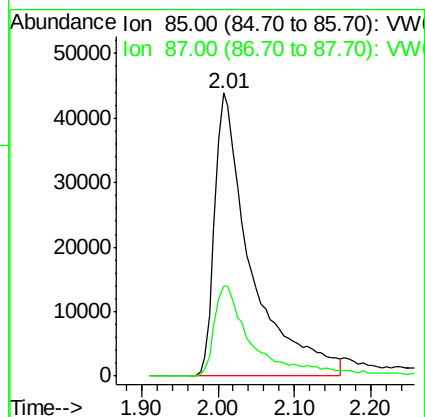
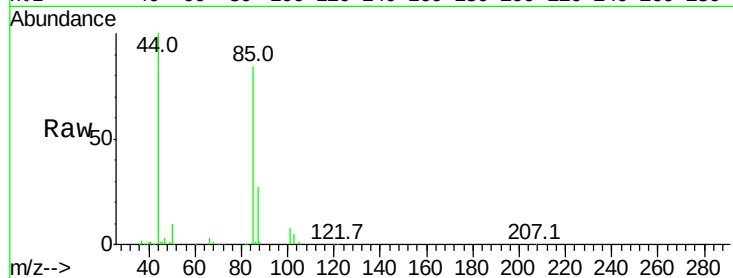
VSTD02593

Tgt Ion: 85 Resp: 145018

Ion Ratio Lower Upper

85 100

87 30.3 22.7 42.3



#3

Chloromethane

Concen: 16.933 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW005517.D

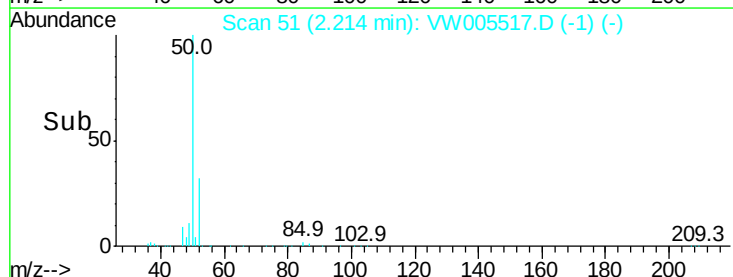
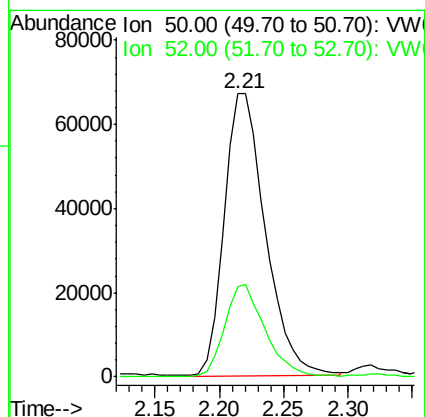
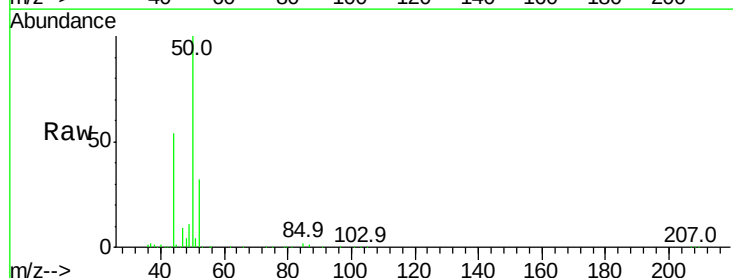
Acq: 19 Sep 2018 16:16

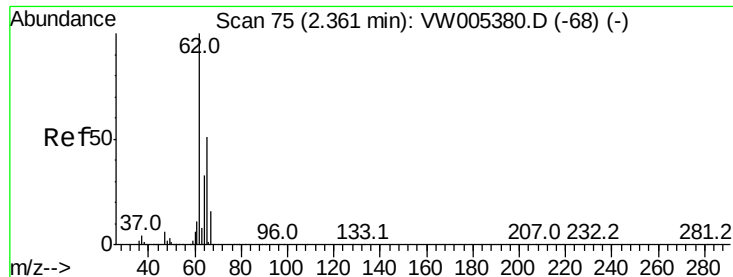
Tgt Ion: 50 Resp: 150230

Ion Ratio Lower Upper

50 100

52 32.0 22.9 42.5





#5

Vinyl chloride

Concen: 17.232 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

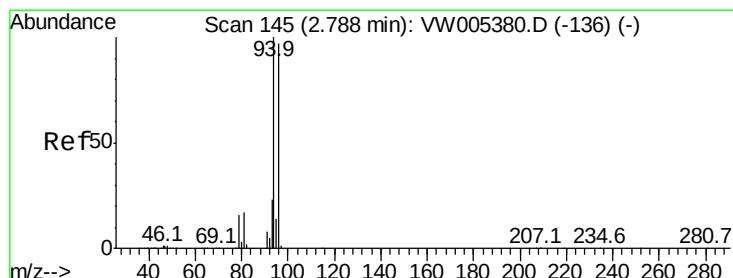
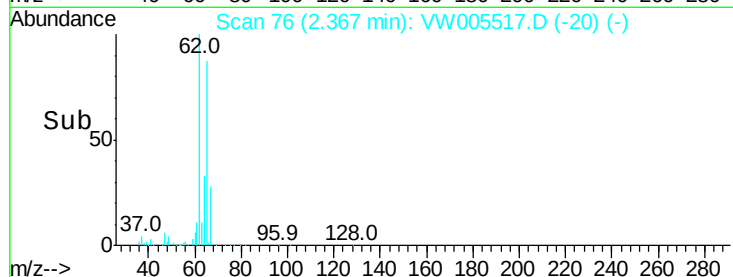
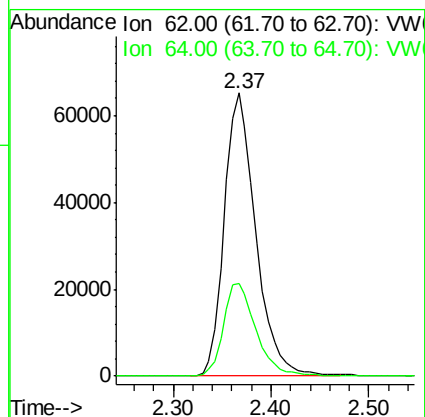
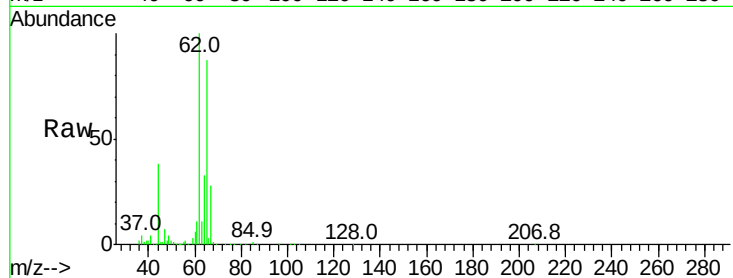
VSTD02593

Tgt Ion: 62 Resp: 145656

Ion Ratio Lower Upper

62 100

64 32.7 22.4 41.6



#6

Bromomethane

Concen: 20.212 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW005517.D

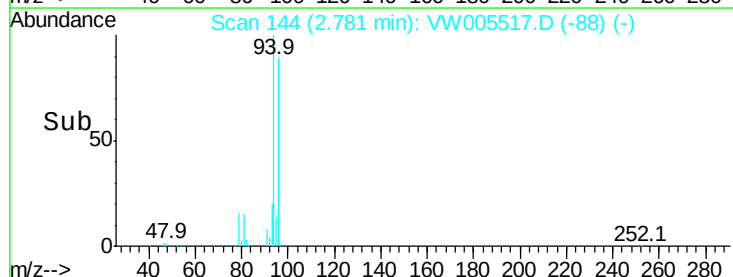
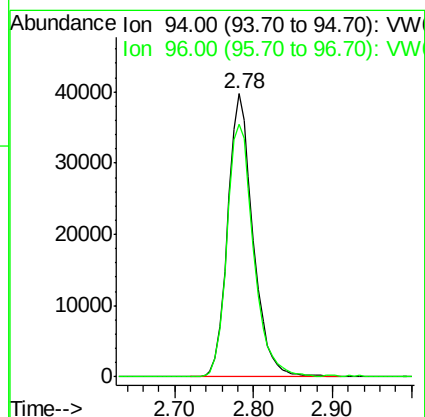
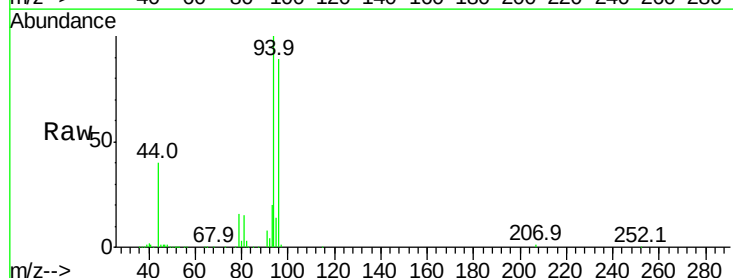
Acq: 19 Sep 2018 16:16

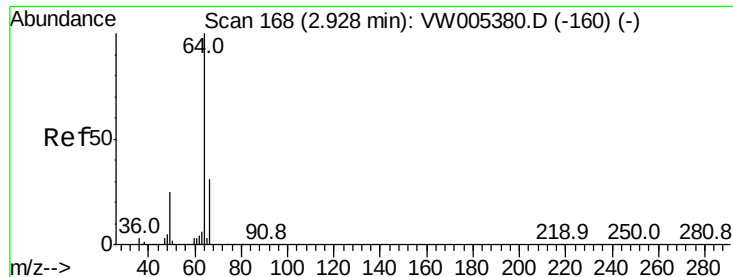
Tgt Ion: 94 Resp: 88511

Ion Ratio Lower Upper

94 100

96 94.0 9.3 176.3





#8

Chloroethane

Concen: 19.367 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

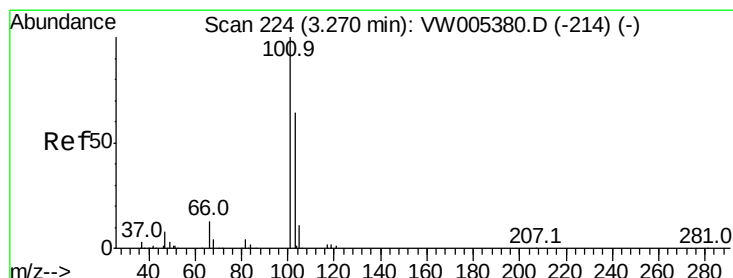
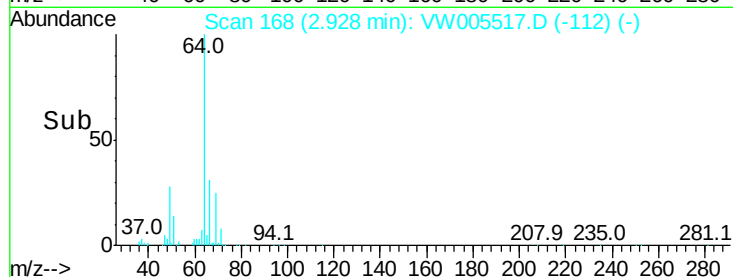
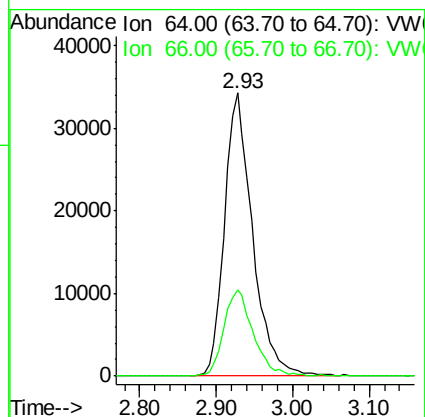
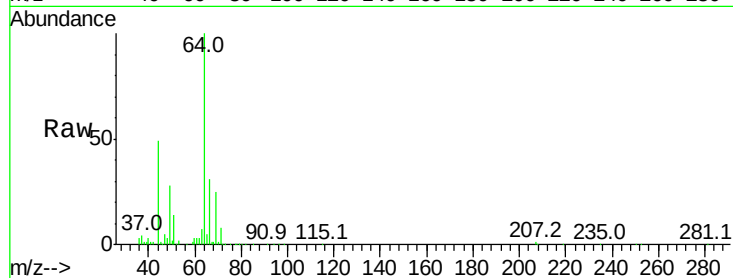
VSTD02593

Tgt Ion: 64 Resp: 86949

Ion Ratio Lower Upper

64 100

66 30.7 23.7 43.9



#9

Trichlorofluoromethane

Concen: 11.657 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW005517.D

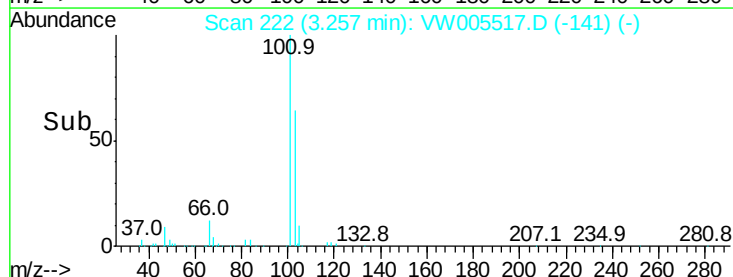
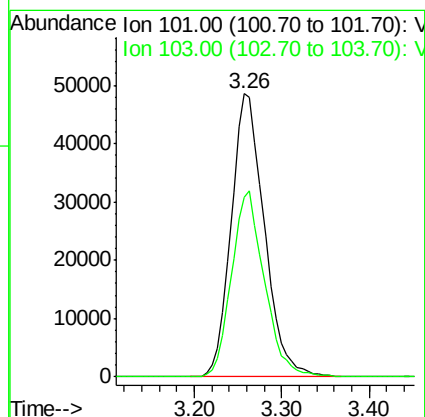
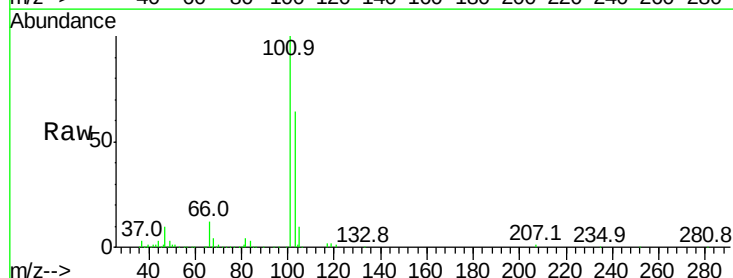
Acq: 19 Sep 2018 16:16

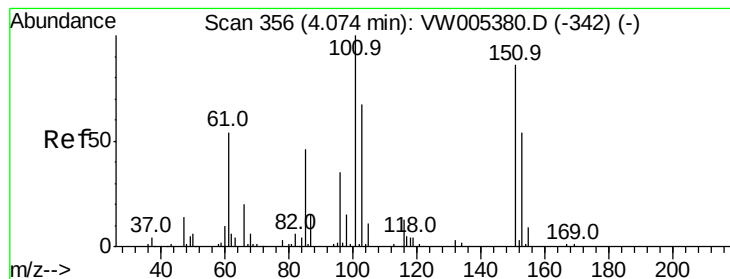
Tgt Ion: 101 Resp: 128327

Ion Ratio Lower Upper

101 100

103 64.7 44.9 83.5





#11

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

Concen: 22.507 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

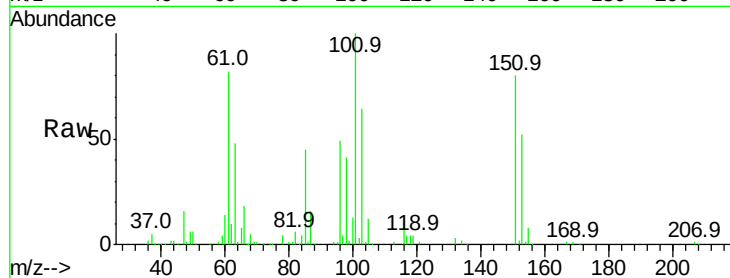
Tgt Ion:101 Resp: 135359

Ion Ratio Lower Upper

101 100

85 43.4 35.8 53.8

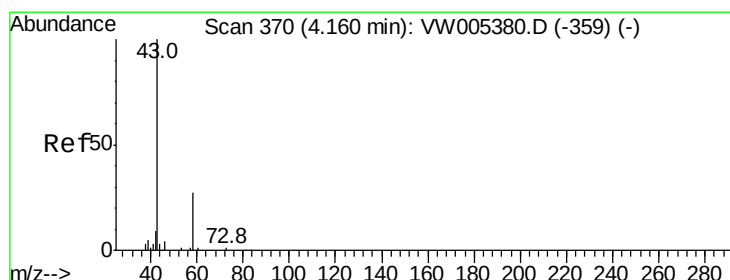
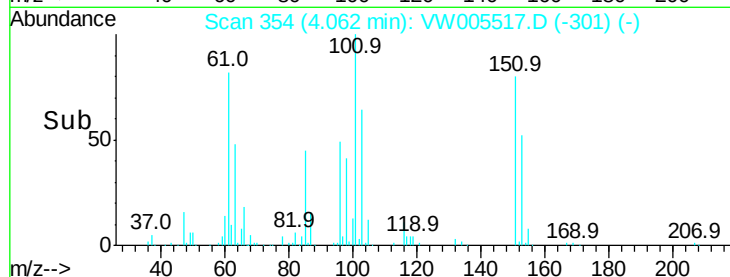
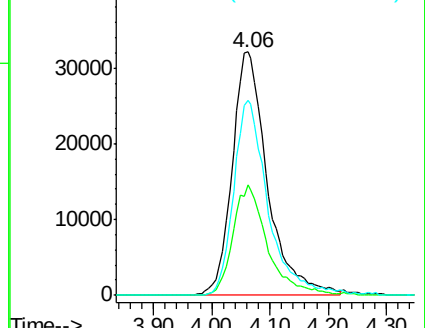
151 76.4 63.9 95.9



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



#13

Acetone

Concen: 34.540 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW005517.D

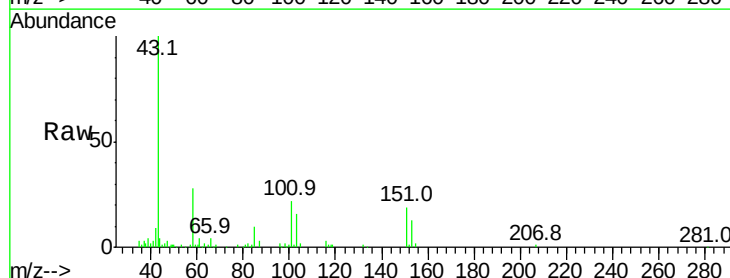
Acq: 19 Sep 2018 16:16

Tgt Ion: 43 Resp: 65884

Ion Ratio Lower Upper

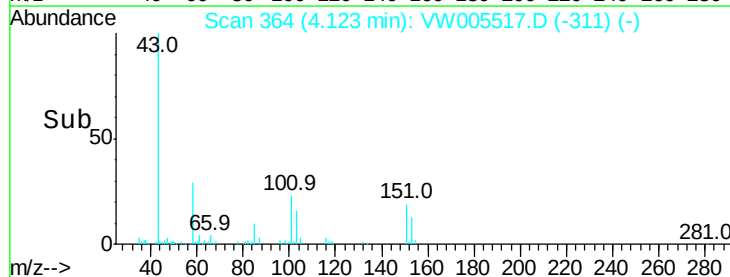
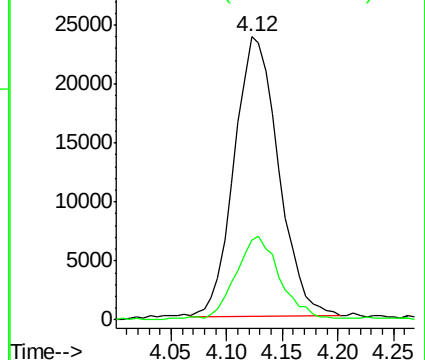
43 100

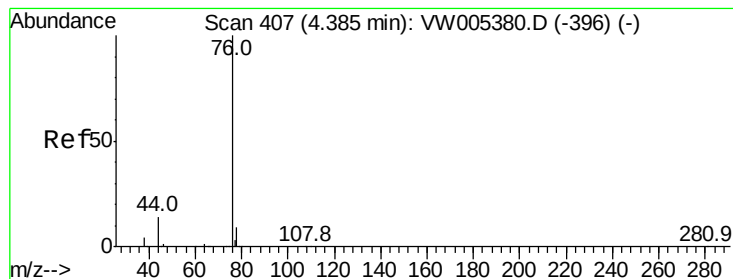
58 29.6 0.0 57.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 20.137 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampled :

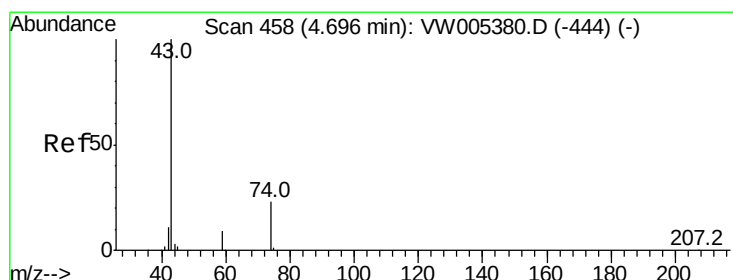
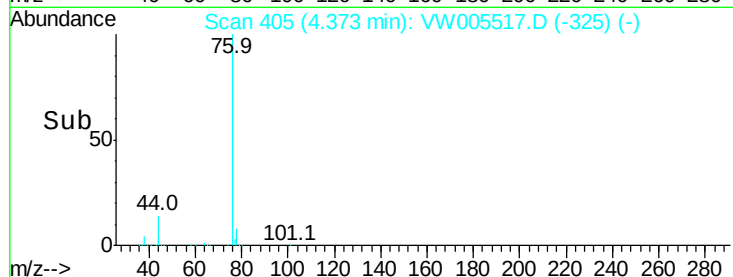
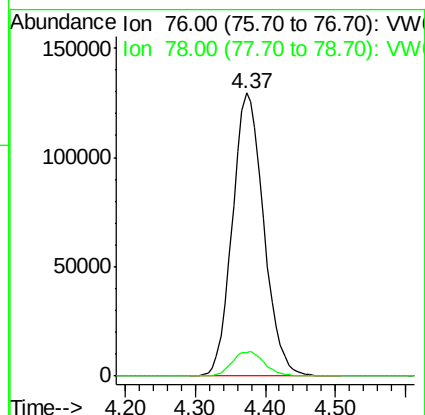
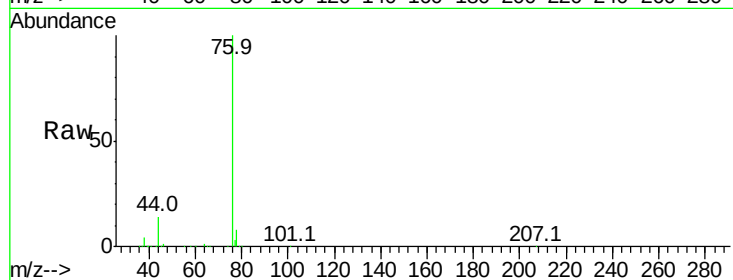
VSTD02593

Tgt Ion: 76 Resp: 402119

Ion Ratio Lower Upper

76 100

78 8.4 7.4 11.2



#15

Methyl Acetate

Concen: 18.736 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW005517.D

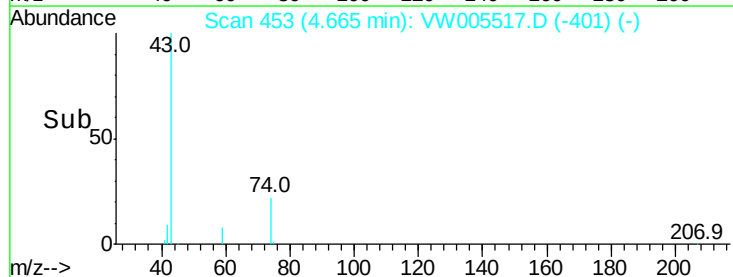
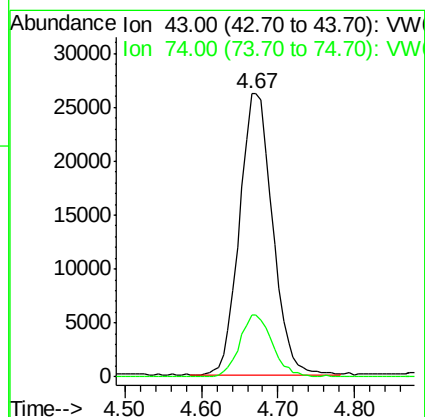
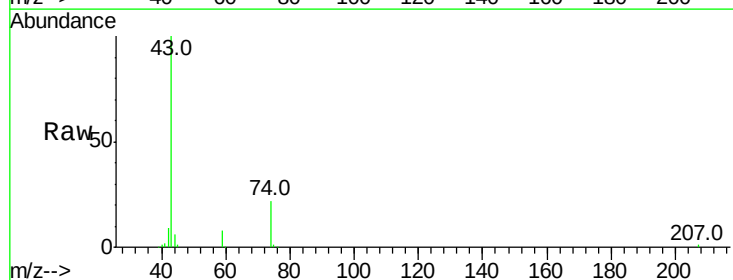
Acq: 19 Sep 2018 16:16

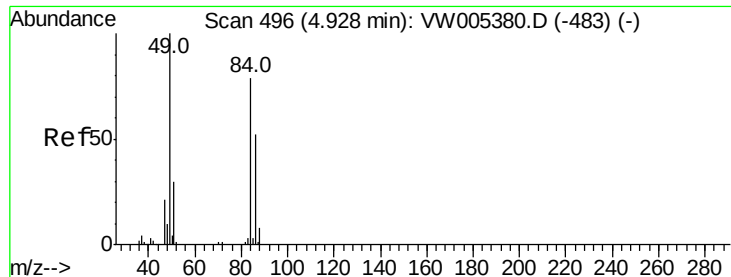
Tgt Ion: 43 Resp: 78847

Ion Ratio Lower Upper

43 100

74 21.6 17.5 26.3

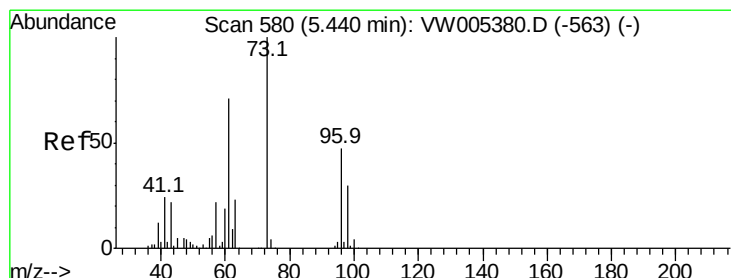
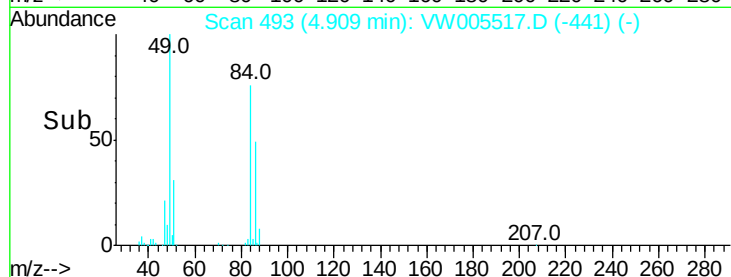
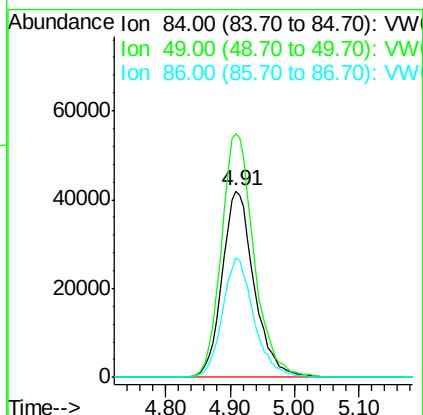
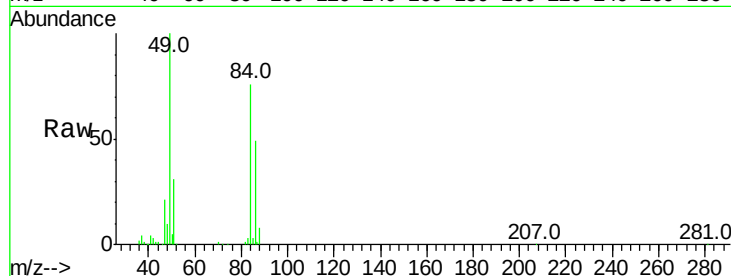




#16
Methylene chloride
Concen: 16.488 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW005517.D
Acq: 19 Sep 2018 16:16

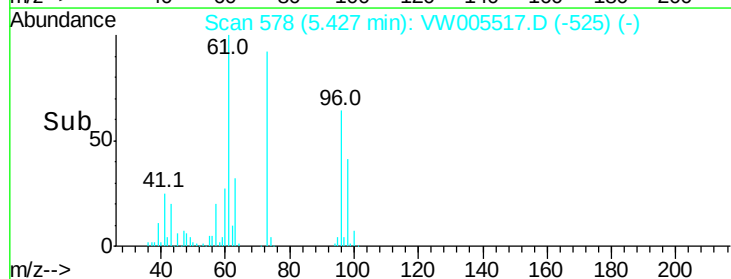
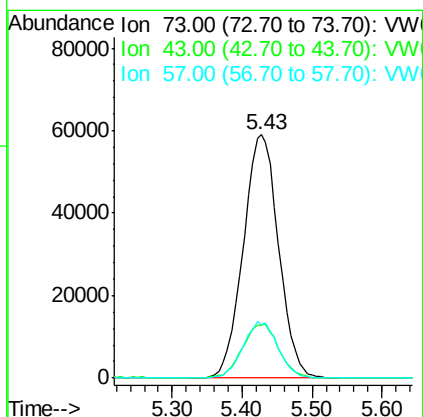
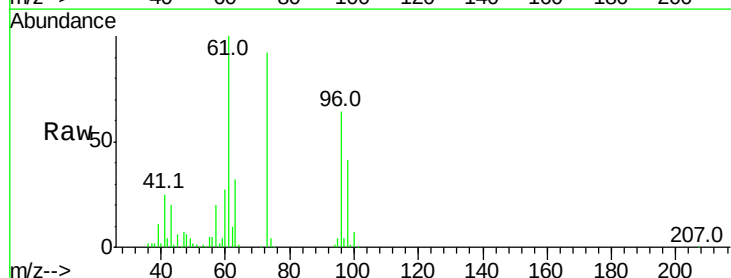
Instrument :
MSVOA_W
ClientSampleId :
VSTD02593

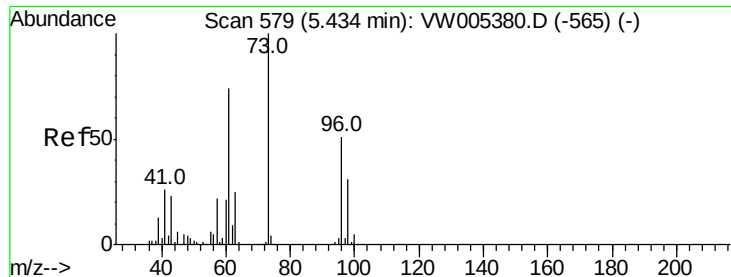
Tgt Ion: 84 Resp: 146347
Ion Ratio Lower Upper
84 100
49 130.7 90.9 168.7
86 64.0 43.6 81.0



#17
Methyl tert-butyl Ether
Concen: 14.592 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.01 min
Lab File: VW005517.D
Acq: 19 Sep 2018 16:16

Tgt Ion: 73 Resp: 206044
Ion Ratio Lower Upper
73 100
43 22.0 17.7 26.5
57 23.0 17.8 26.6





#18

trans-1,2-Dichloroethene

Concen: 23.719 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

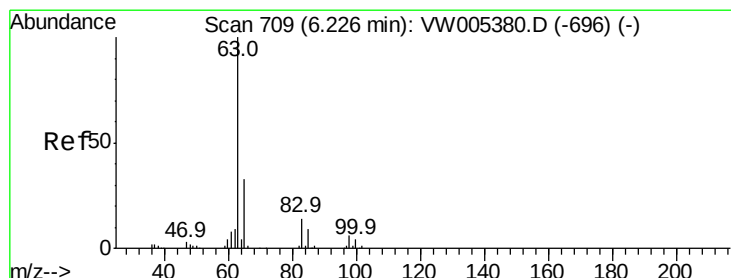
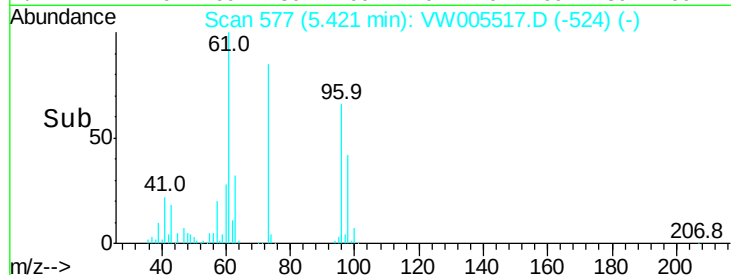
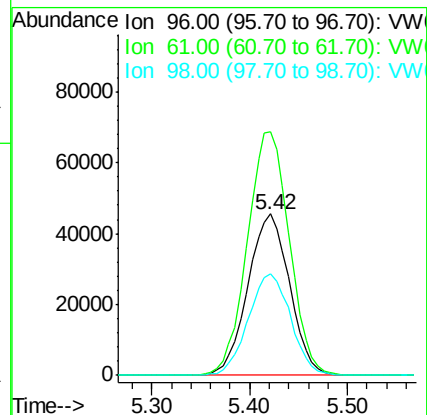
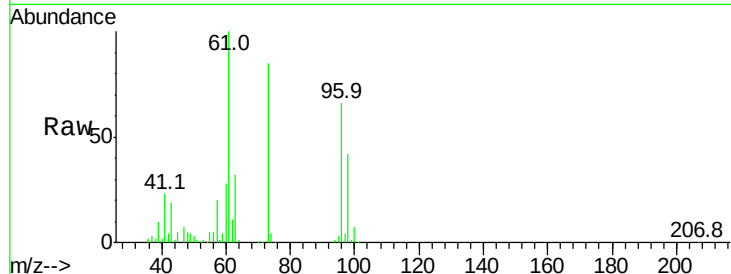
Tgt Ion: 96 Resp: 134717

Ion Ratio Lower Upper

96 100

61 150.6 103.0 191.2

98 63.0 47.2 87.6



#19

1,1-Dichloroethane

Concen: 25.348 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

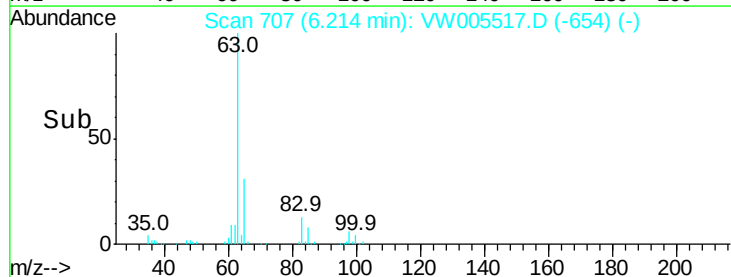
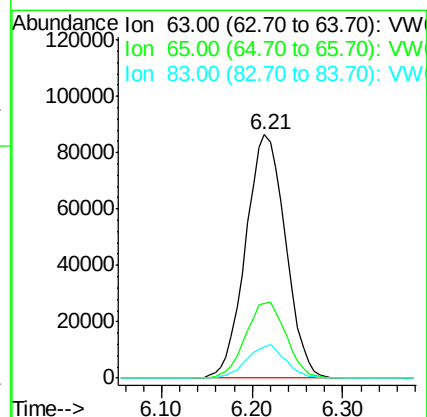
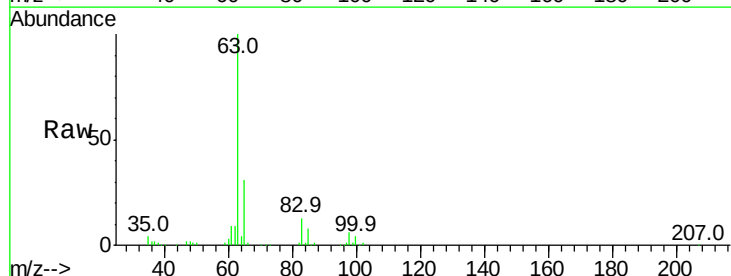
Tgt Ion: 63 Resp: 263086

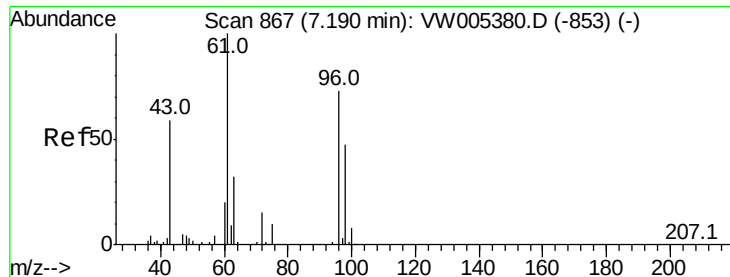
Ion Ratio Lower Upper

63 100

65 30.6 22.9 42.5

83 12.7 10.4 19.2





#21

2-Butanone

Concen: 33.860 ug/L

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

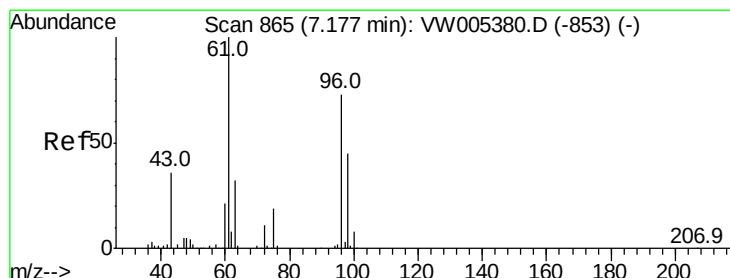
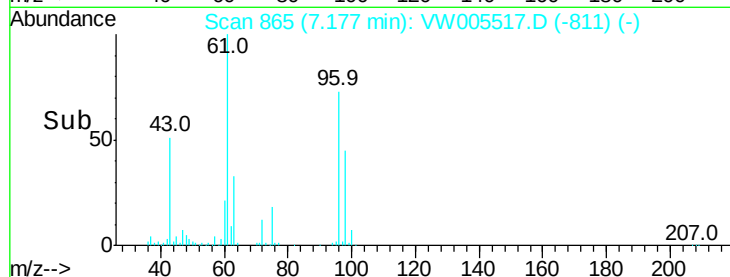
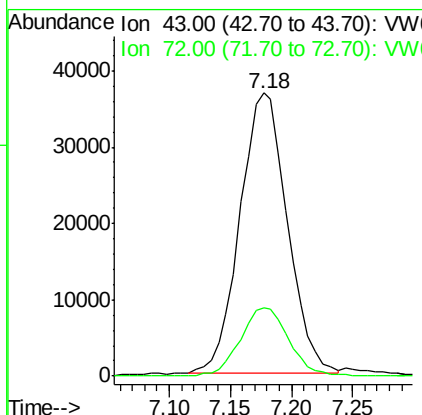
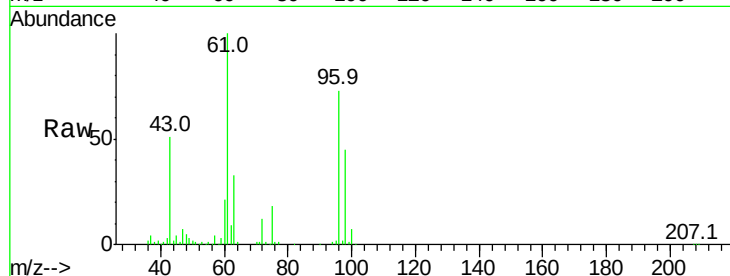
VSTD02593

Tgt Ion: 43 Resp: 98981

Ion Ratio Lower Upper

43 100

72 25.1 11.8 35.4



#22

cis-1,2-Dichloroethene

Concen: 24.867 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

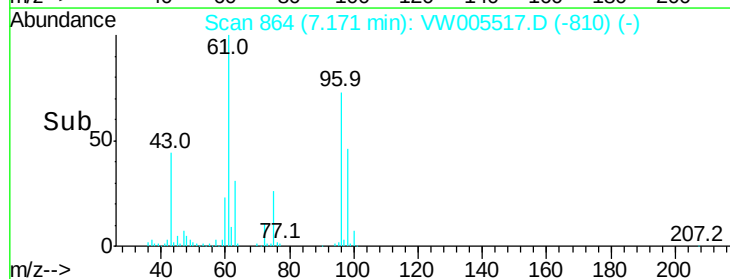
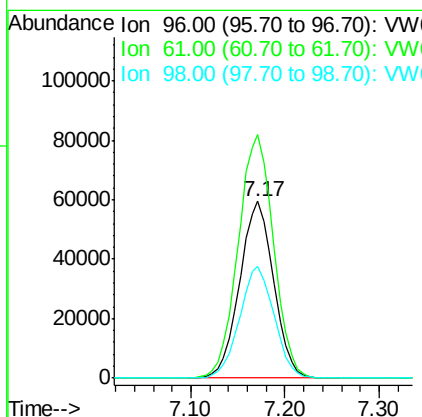
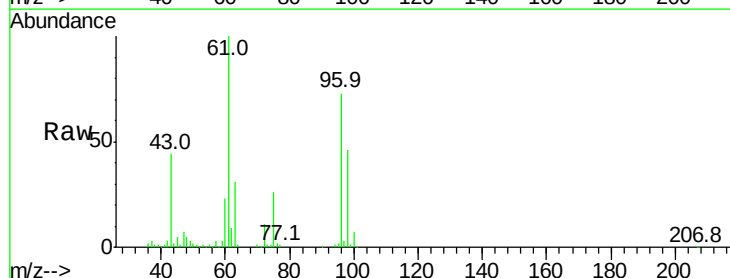
Tgt Ion: 96 Resp: 150737

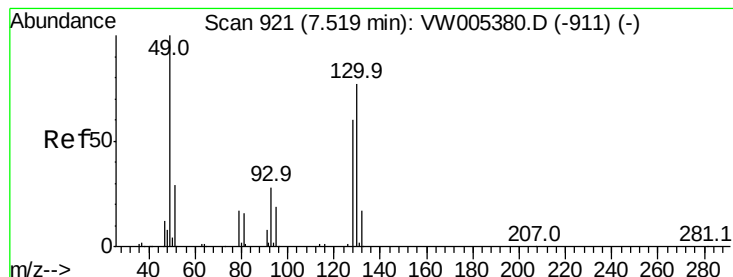
Ion Ratio Lower Upper

96 100

61 137.8 93.1 172.9

98 63.0 42.4 78.6





#23

Bromochloromethane

Concen: 23.470 ug/L

RT: 7.52 min Scan# 921

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :
MSVOA_W
ClientSampleId :
VSTD02593

Tgt Ion:128 Resp: 66301

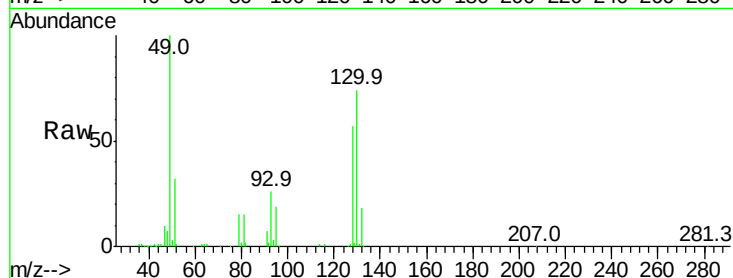
Ion Ratio Lower Upper

128 100

49 174.3 118.2 219.6

130 128.5 92.8 172.4

51 56.2 43.1 64.7

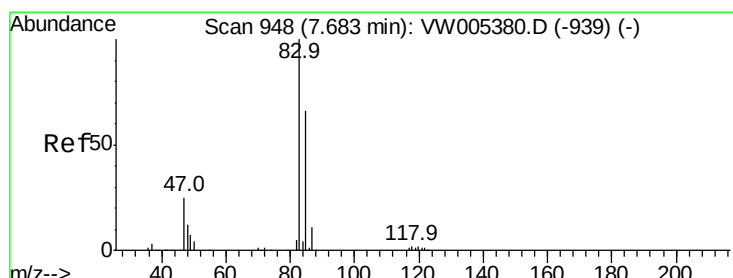
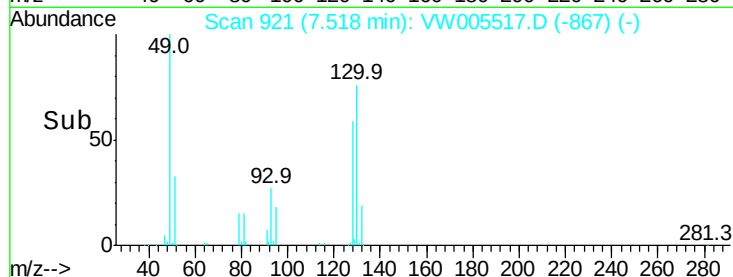
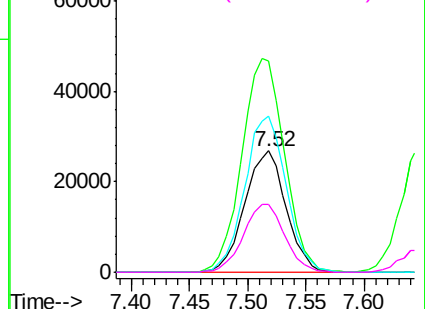


Abundance Ion 128.00 (127.70 to 128.70): V

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: 24.459 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.01 min

Lab File: VW005517.D

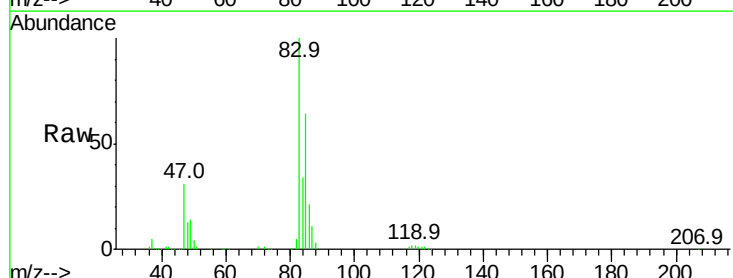
Acq: 19 Sep 2018 16:16

Tgt Ion: 83 Resp: 266955

Ion Ratio Lower Upper

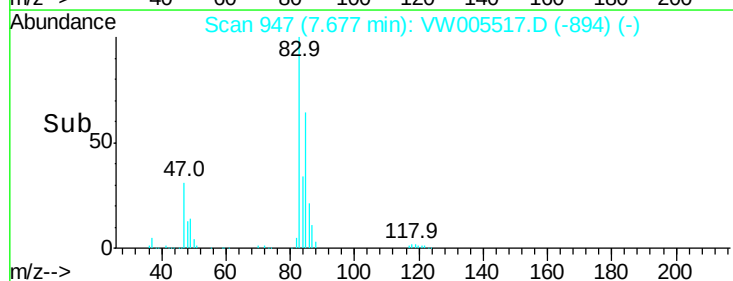
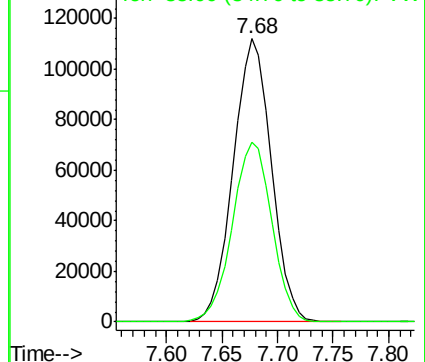
83 100

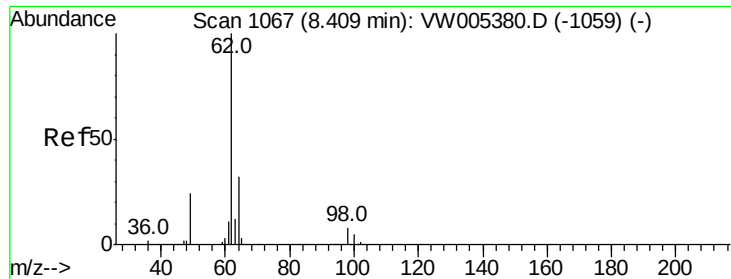
85 65.7 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 22.738 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. -0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

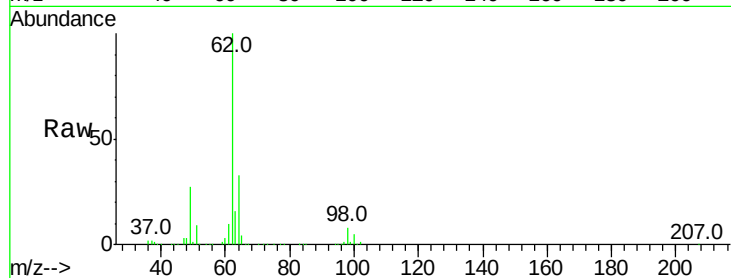
VSTD02593

Tgt Ion: 62 Resp: 192647

Ion Ratio Lower Upper

62 100

98 8.5 6.0 9.0



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

8.40

100000

80000

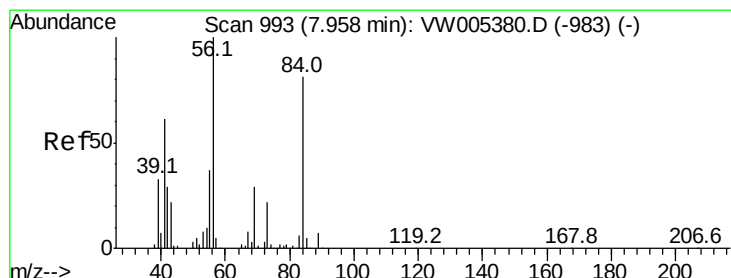
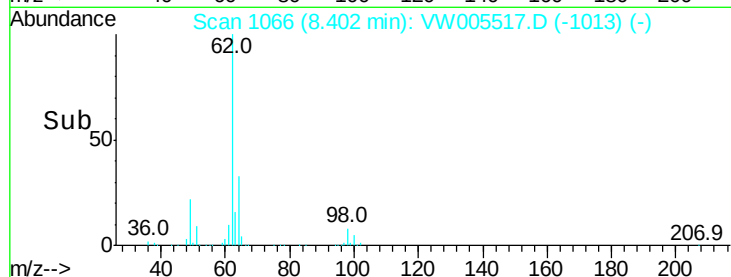
60000

40000

20000

0

Time--> 8.30 8.35 8.40 8.45 8.50



#30

Cyclohexane

Concen: 25.422 ug/L

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

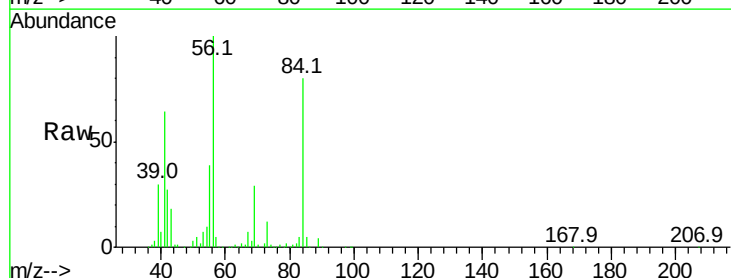
Tgt Ion: 56 Resp: 254099

Ion Ratio Lower Upper

56 100

69 29.5 24.7 37.1

84 80.7 67.4 101.0



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

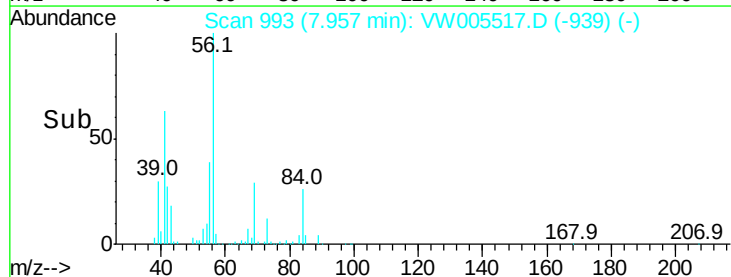
7.96

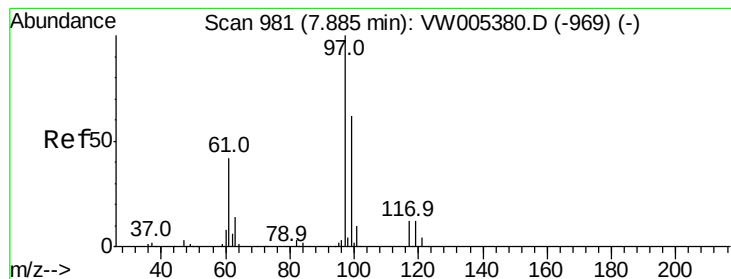
100000

50000

0

Time--> 7.90 8.00





#31

1,1,1-Trichloroethane

Concen: 21.832 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

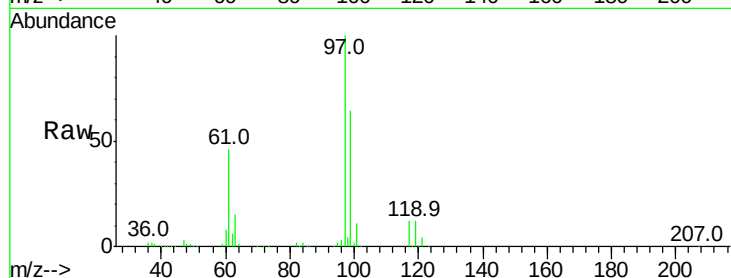
Tgt Ion: 97 Resp: 219729

Ion Ratio Lower Upper

97 100

99 64.6 51.4 77.0

61 46.2 37.0 55.6

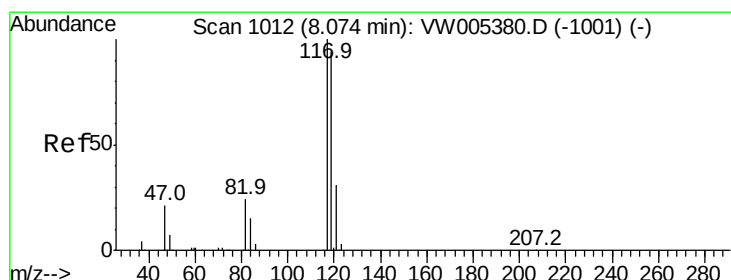
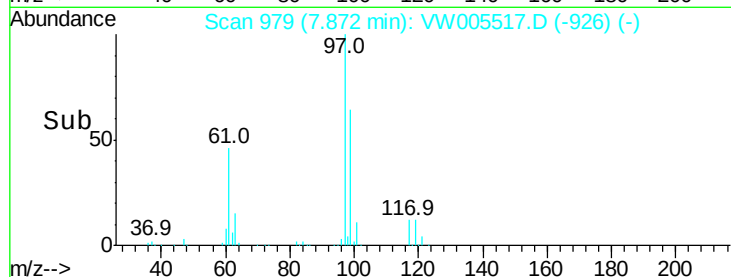
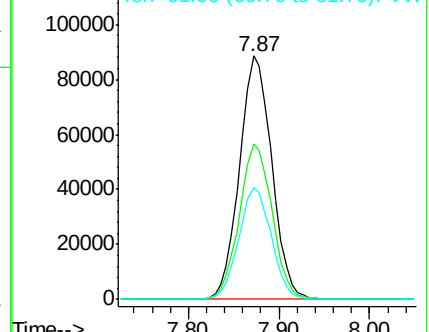


Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 22.357 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.01 min

Lab File: VW005517.D

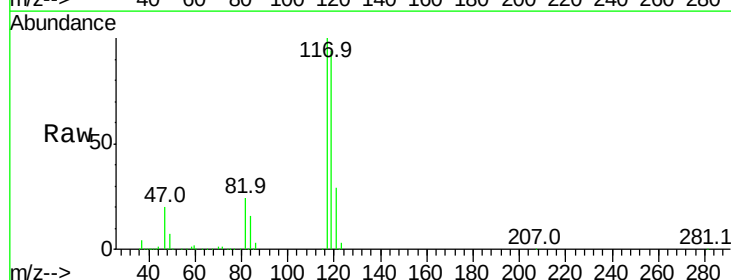
Acq: 19 Sep 2018 16:16

Tgt Ion: 117 Resp: 208756

Ion Ratio Lower Upper

117 100

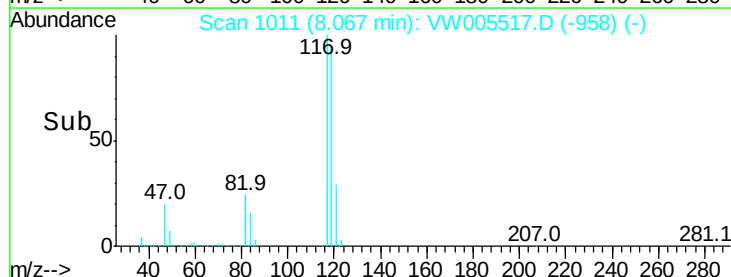
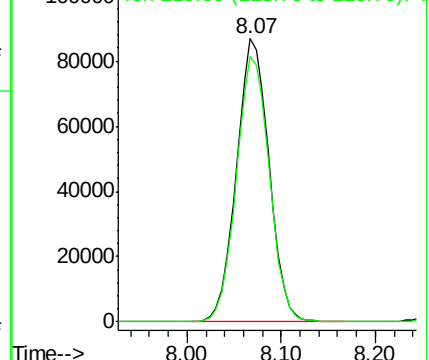
119 95.2 77.0 115.6

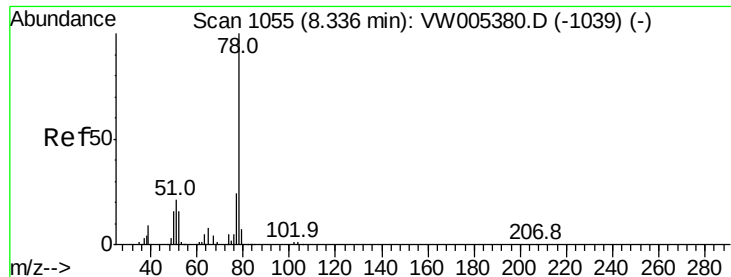


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 23.894 ug/L

RT: 8.33 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

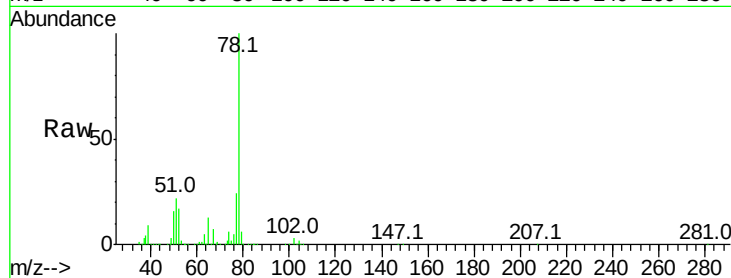
Instrument :

MSVOA_W

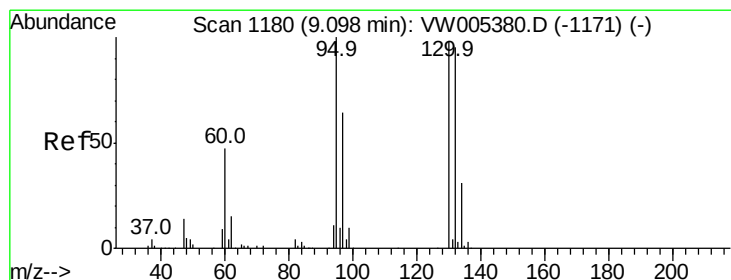
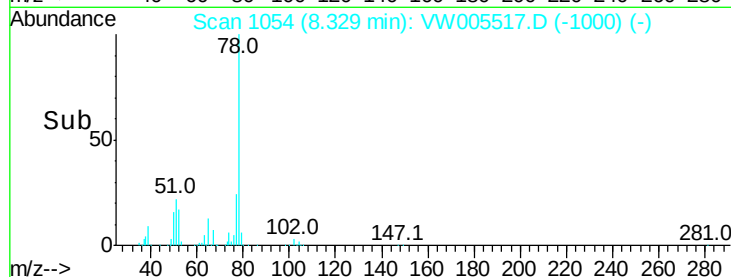
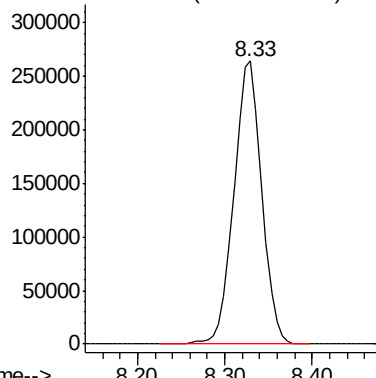
ClientSampleId :

VSTD02593

Tgt Ion: 78 Resp: 589271



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 23.003 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Tgt Ion: 95 Resp: 150573

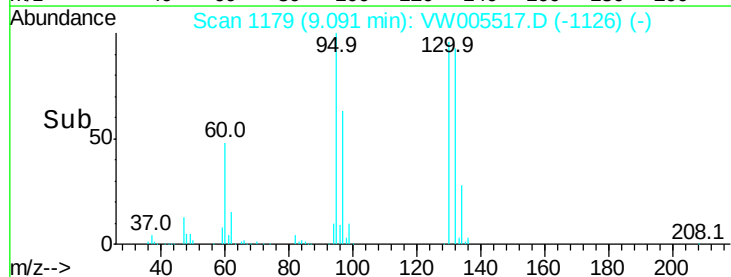
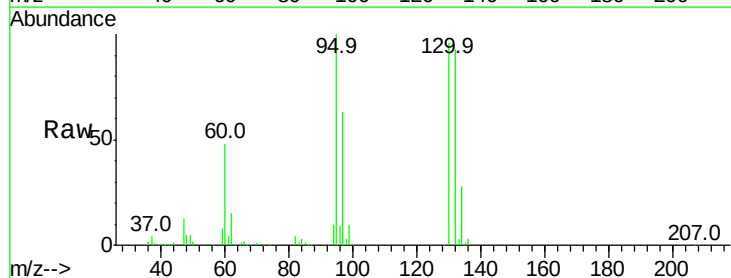
Ion	Ratio	Lower	Upper
95	100		
97	64.3	45.0	83.6
132	94.8	67.2	124.8
130	98.0	68.8	127.8

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

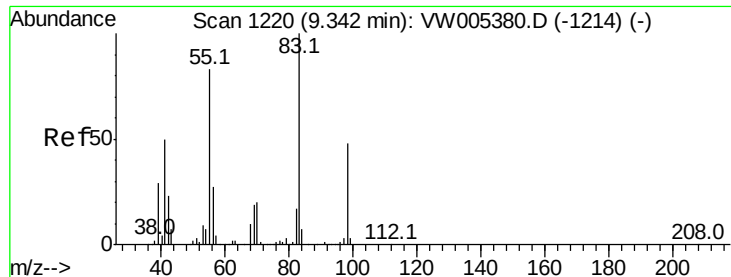


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

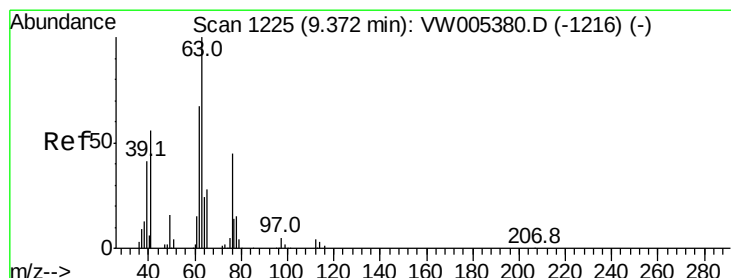
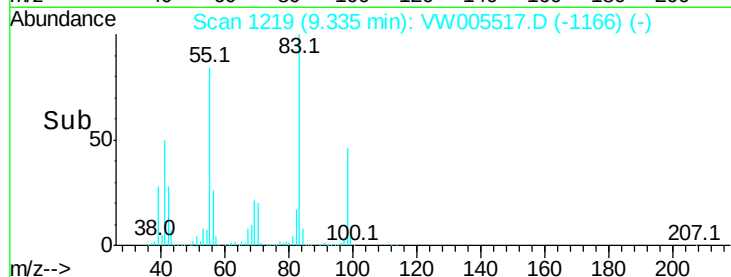
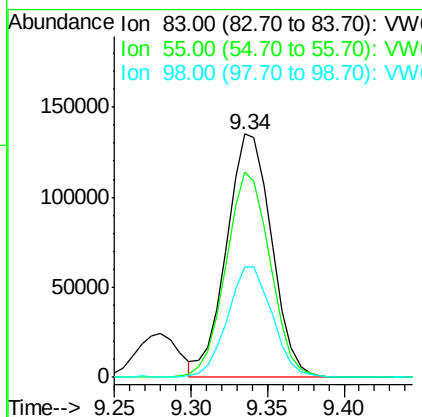
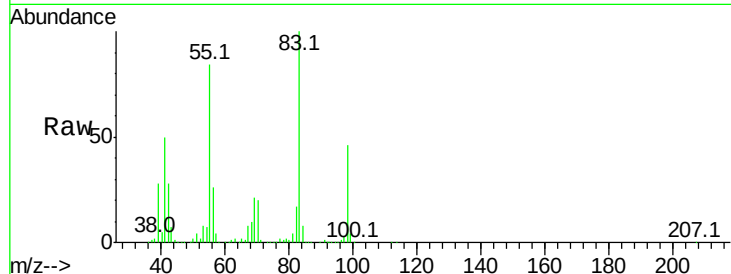
Ion 130.00 (129.70 to 130.70): V



#36
Methylcyclohexane
Concen: 24.218 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.01 min
Lab File: VW005517.D
Acq: 19 Sep 2018 16:16

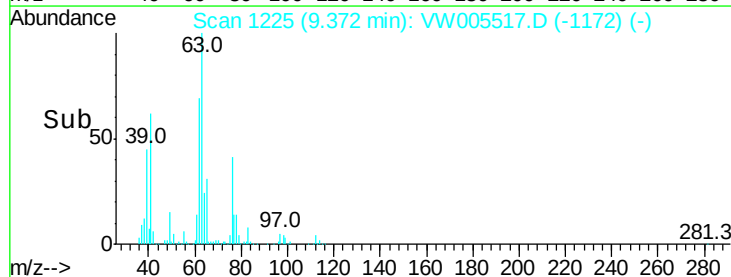
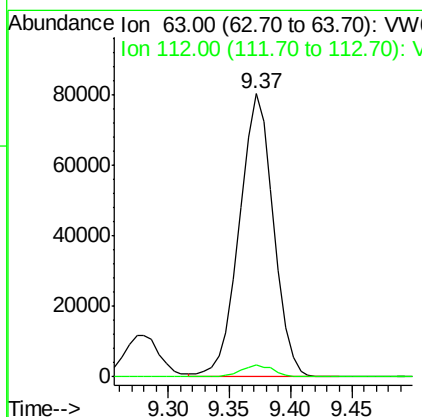
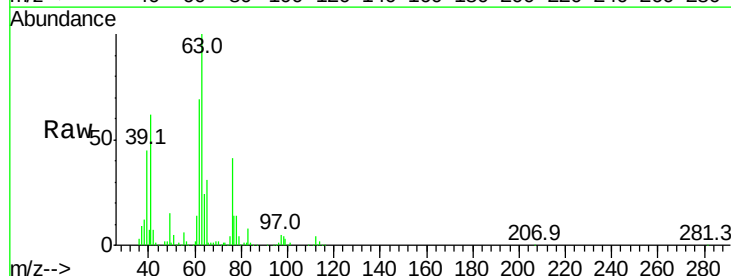
Instrument :
MSVOA_W
ClientSampleId :
VSTD02593

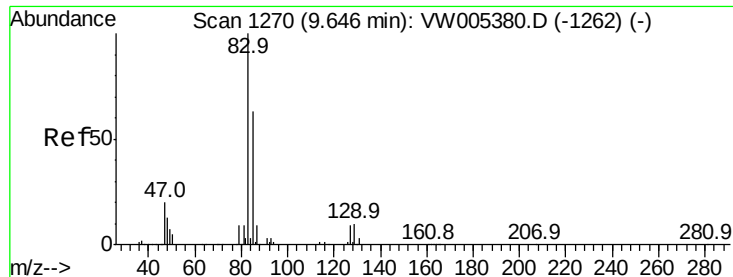
Tgt Ion: 83 Resp: 275148
Ion Ratio Lower Upper
83 100
55 83.0 66.4 99.6
98 45.4 37.3 55.9



#40
1,2-Dichloropropane
Concen: 25.582 ug/L
RT: 9.37 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VW005517.D
Acq: 19 Sep 2018 16:16

Tgt Ion: 63 Resp: 155750
Ion Ratio Lower Upper
63 100
112 4.0 3.4 5.2





#41

Bromodichloromethane

Concen: 24.421 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

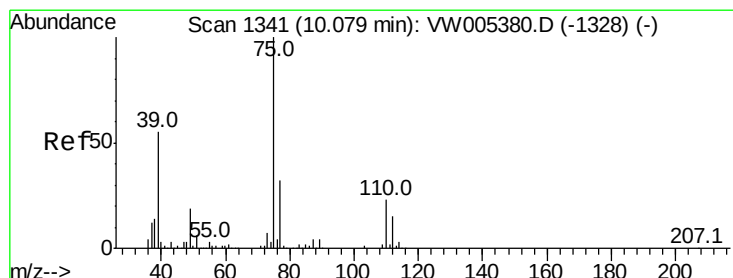
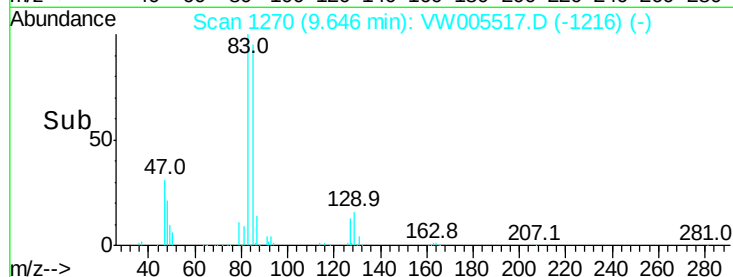
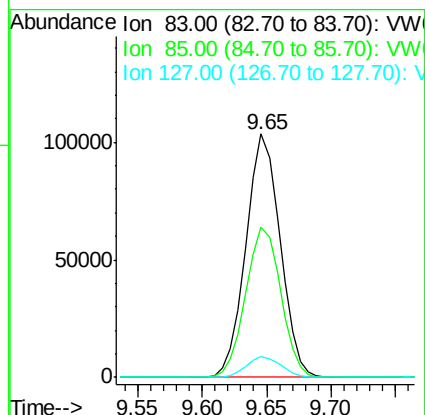
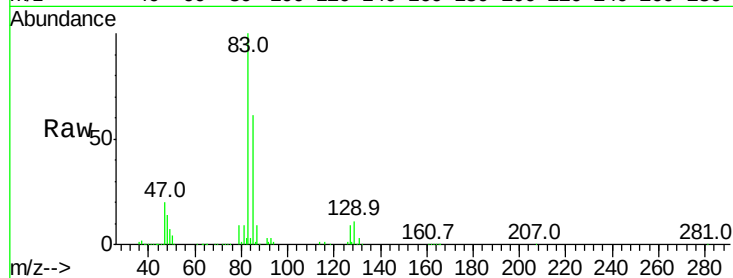
Tgt Ion: 83 Resp: 190596

Ion Ratio Lower Upper

83 100

85 61.5 44.0 81.6

127 8.5 7.5 11.3



#42

cis-1,3-Dichloropropene

Concen: 26.124 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VW005517.D

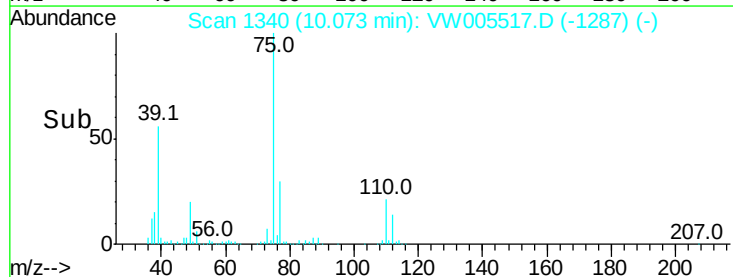
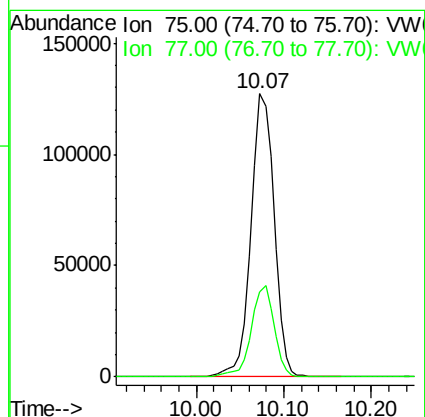
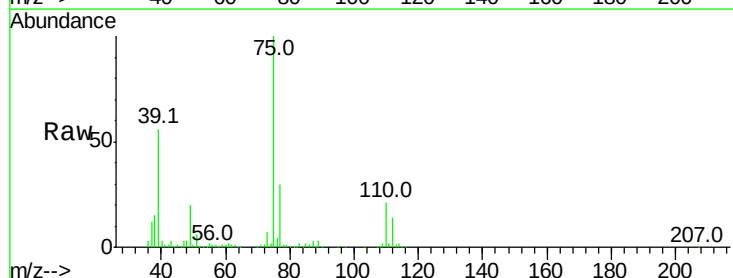
Acq: 19 Sep 2018 16:16

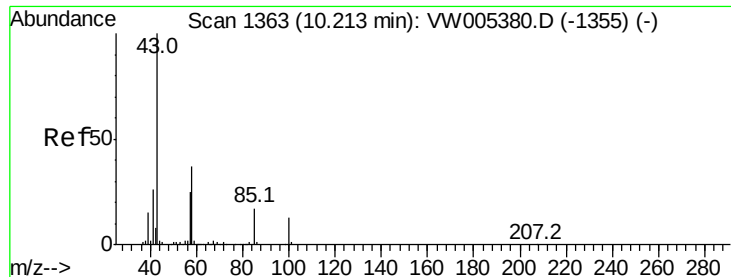
Tgt Ion: 75 Resp: 234929

Ion Ratio Lower Upper

75 100

77 30.1 22.3 41.3





#43

4-Methyl-2-pentanone

Concen: 38.256 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

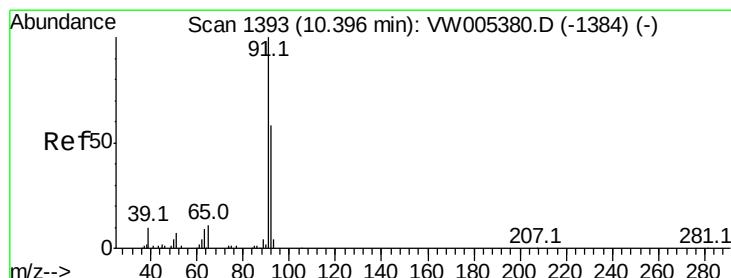
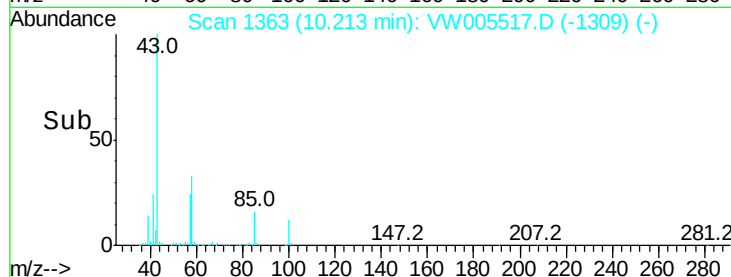
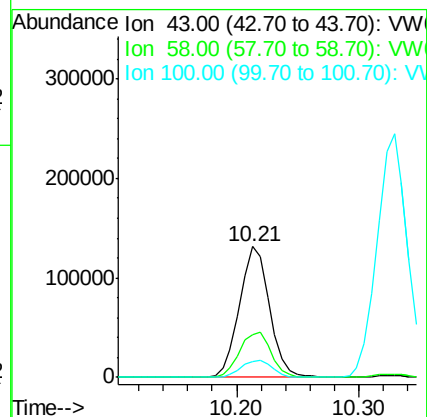
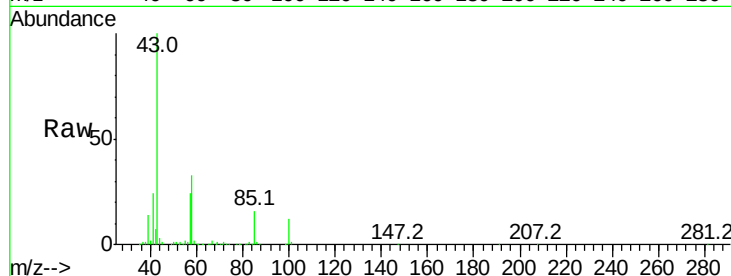
Tgt Ion: 43 Resp: 222682

Ion Ratio Lower Upper

43 100

58 36.5 29.8 44.8

100 13.5 11.4 17.0



#44

Toluene

Concen: 22.372 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW005517.D

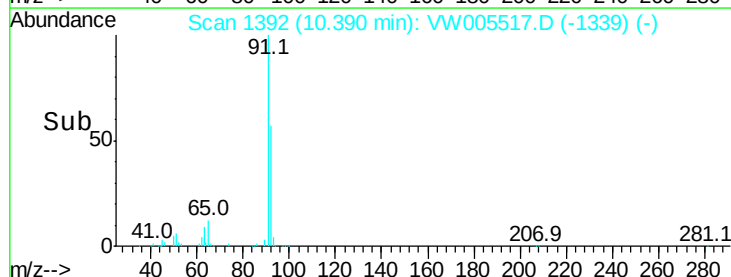
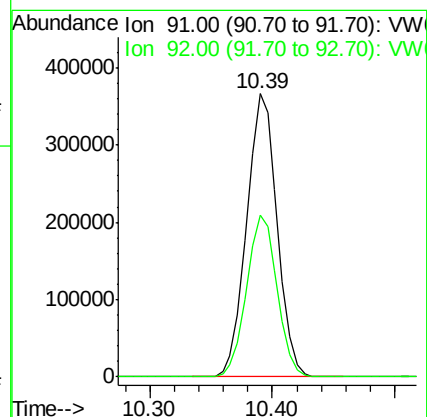
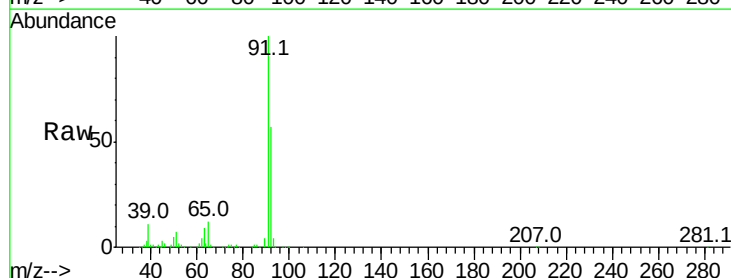
Acq: 19 Sep 2018 16:16

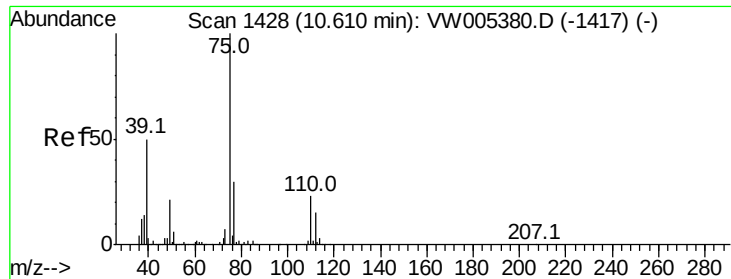
Tgt Ion: 91 Resp: 632186

Ion Ratio Lower Upper

91 100

92 57.1 39.8 74.0





#45

trans-1,3-Dichloropropene

Concen: 24.823 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

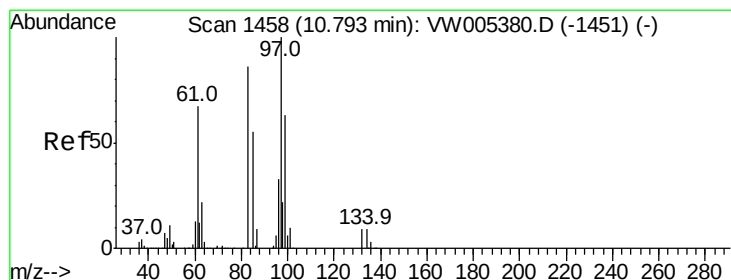
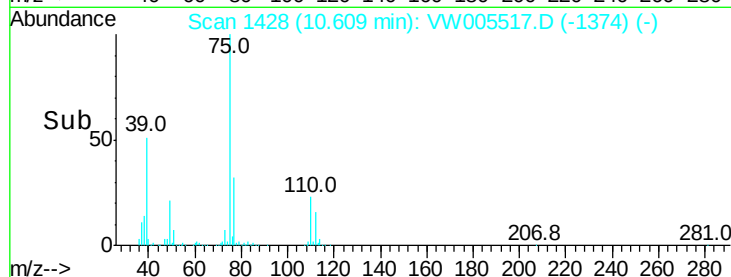
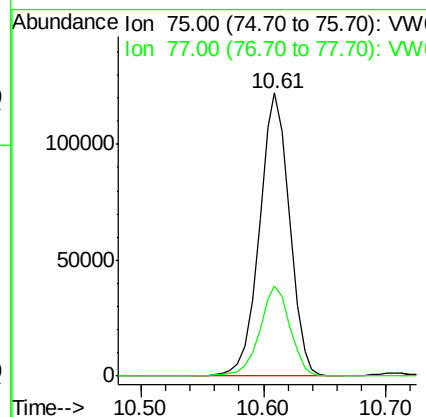
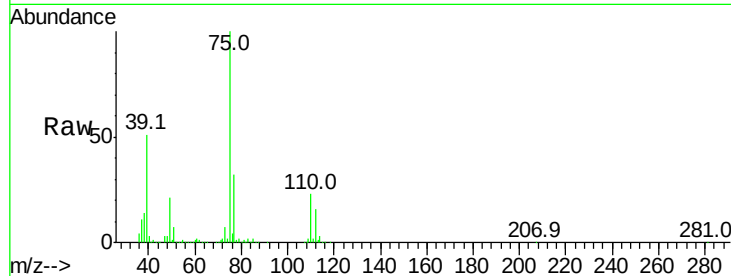
VSTD02593

Tgt Ion: 75 Resp: 209146

Ion Ratio Lower Upper

75 100

77 31.6 22.3 41.3



#46

1,1,2-Trichloroethane

Concen: 23.437 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Tgt Ion: 97 Resp: 112006

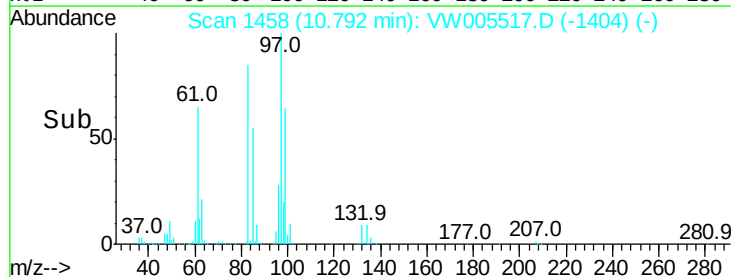
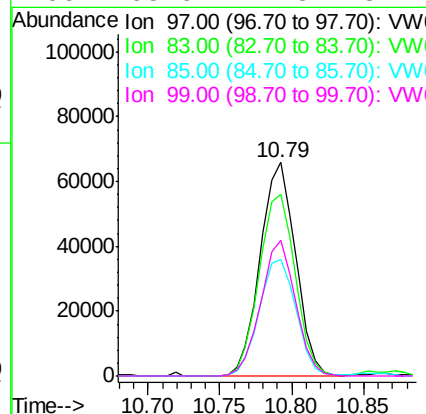
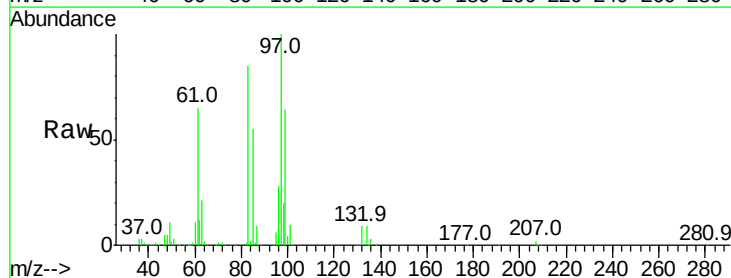
Ion Ratio Lower Upper

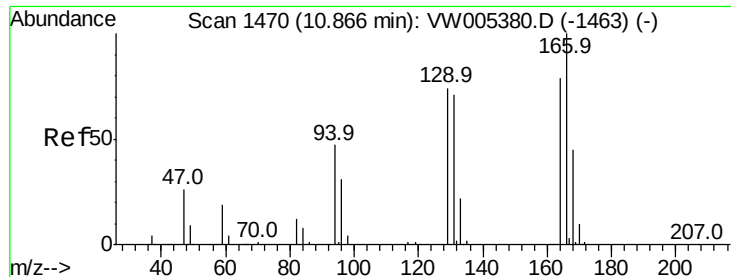
97 100

83 85.0 60.2 111.8

85 54.8 37.9 70.5

99 63.6 44.5 82.7





#47

Tetrachloroethene

Concen: 20.655 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

Tgt Ion:164 Resp: 122416

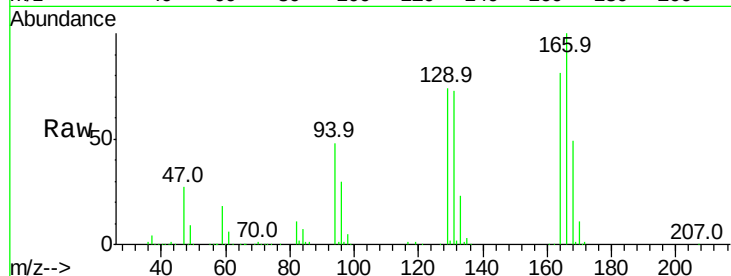
Ion Ratio Lower Upper

164 100

129 91.0 66.2 123.0

131 90.4 63.6 118.0

166 123.5 88.9 165.1

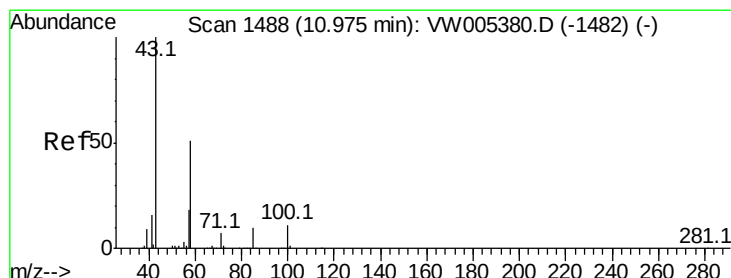
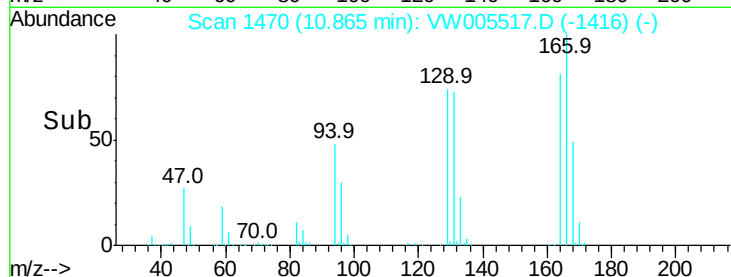
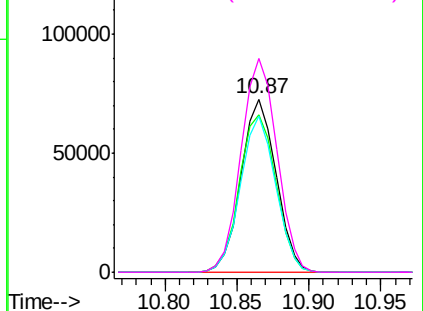


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

2-Hexanone

Concen: 38.480 ug/L

RT: 10.98 min Scan# 1488

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Tgt Ion: 43 Resp: 164667

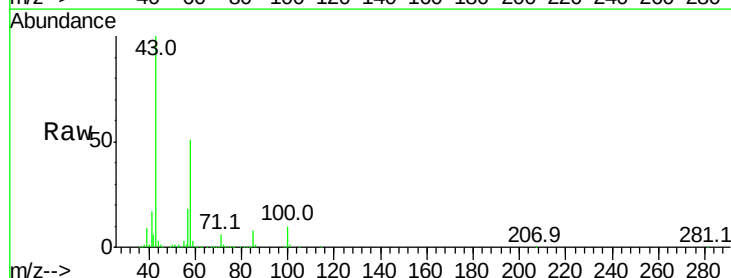
Ion Ratio Lower Upper

43 100

58 50.1 41.6 62.4

57 17.6 15.0 22.6

100 9.9 8.6 12.8

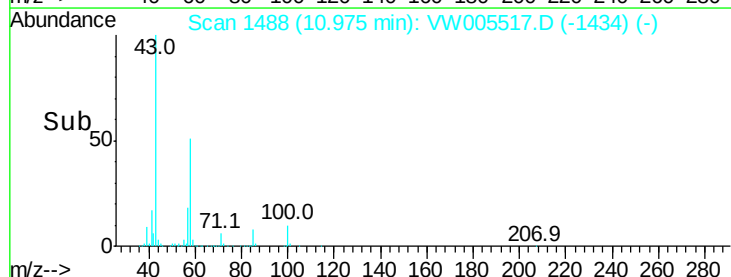
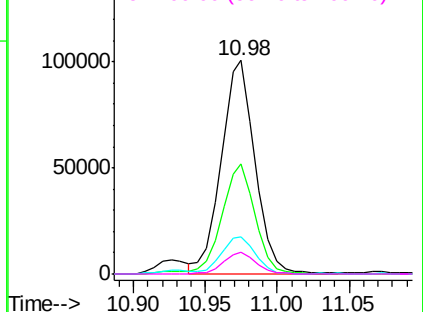


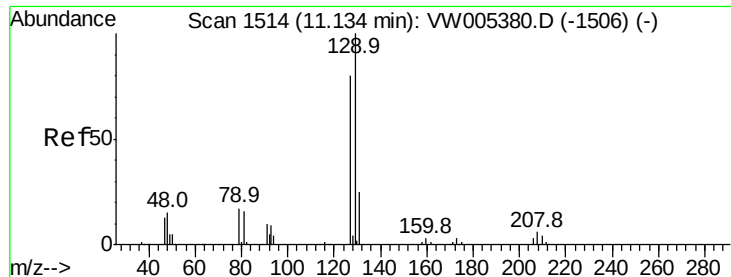
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#50

Dibromochloromethane

Concen: 23.451 ug/L

RT: 11.13 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

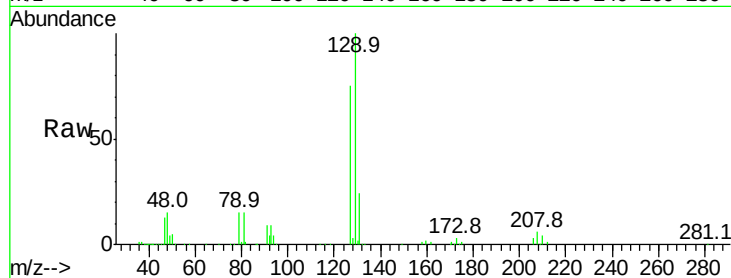
VSTD02593

Tgt Ion:129 Resp: 133884

Ion Ratio Lower Upper

129 100

127 75.0 53.1 98.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13

80000

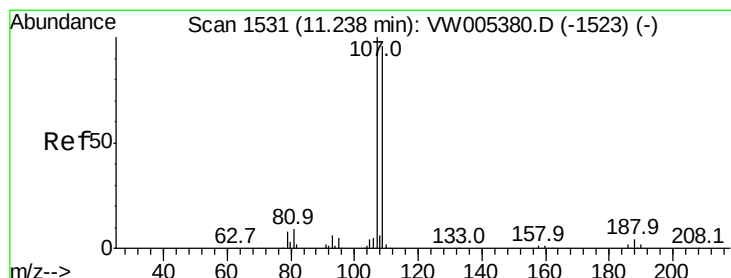
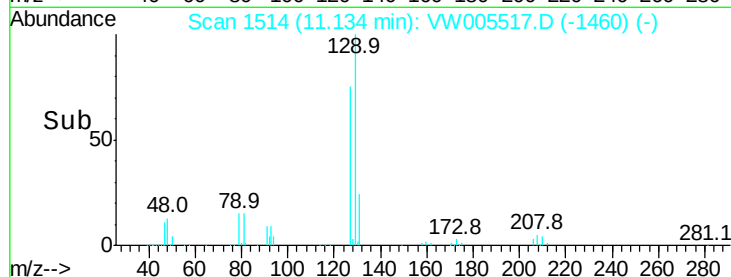
60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20



#51

1,2-Dibromoethane

Concen: 22.253 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

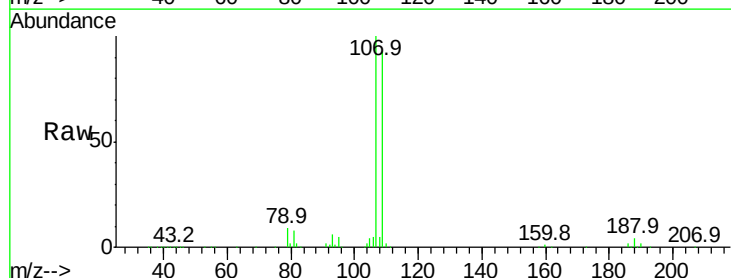
Tgt Ion:107 Resp: 104381

Ion Ratio Lower Upper

107 100

109 93.4 64.9 120.5

188 3.6 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

11.24

80000

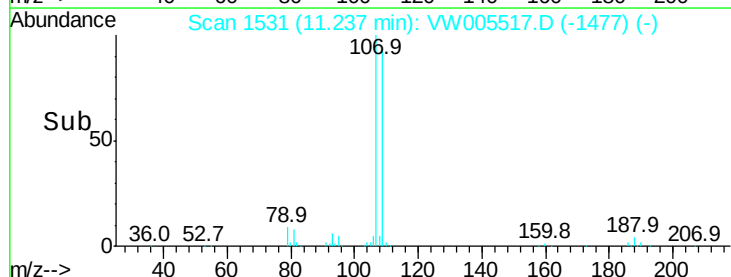
60000

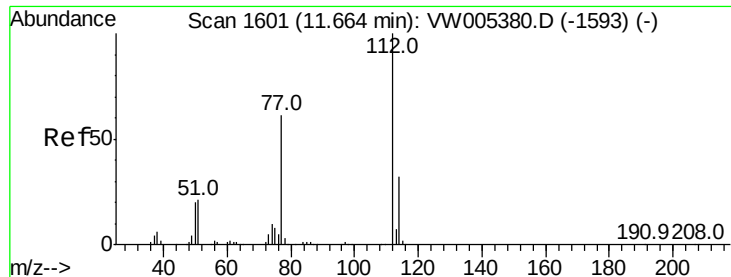
40000

20000

0

Time--> 11.20 11.30





#52

Chlorobenzene

Concen: 21.664 ug/L

RT: 11.66 min Scan# 1601

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

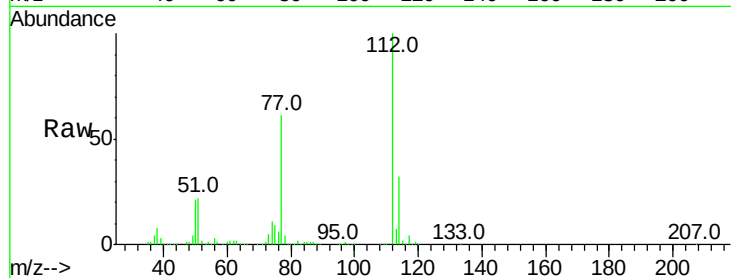
Tgt Ion: 112 Resp: 399468

Ion Ratio Lower Upper

112 100

77 60.6 45.1 67.7

114 32.1 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V

11.66

250000

200000

150000

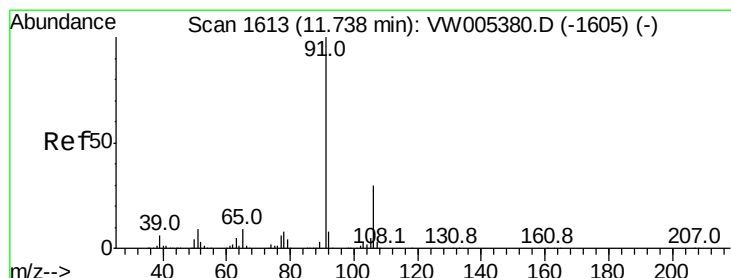
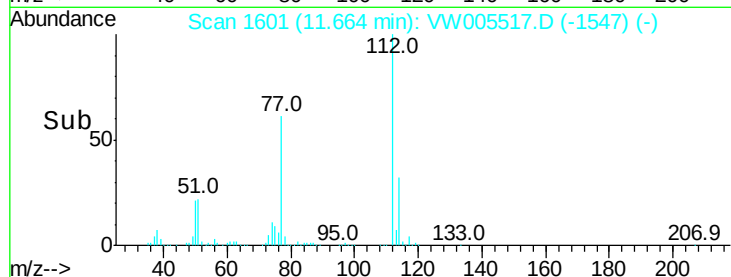
100000

50000

0

11.60 11.65 11.70

Time-->



#53

Ethylbenzene

Concen: 22.017 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. -0.00 min

Lab File: VW005517.D

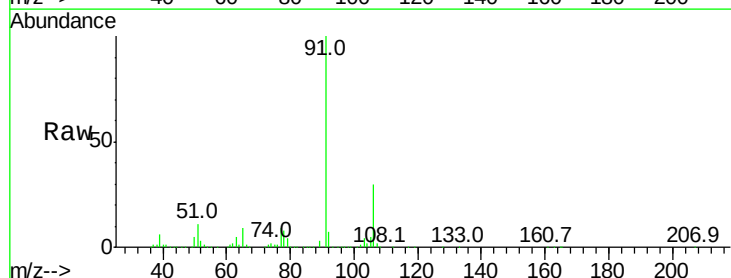
Acq: 19 Sep 2018 16:16

Tgt Ion: 91 Resp: 723582

Ion Ratio Lower Upper

91 100

106 29.7 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

11.74

500000

400000

300000

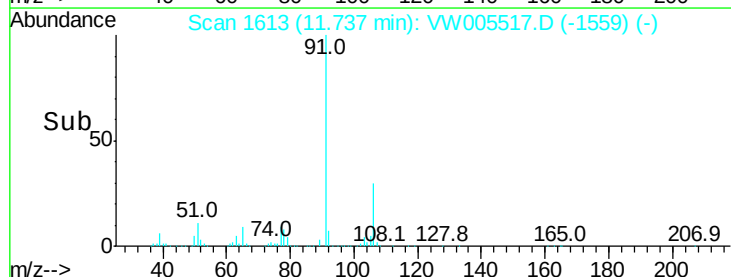
200000

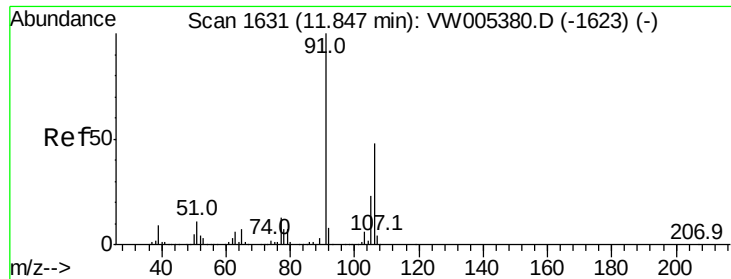
100000

0

11.65 11.70 11.75 11.80

Time-->





#54

m,p-Xylene

Concen: 21.828 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.01 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

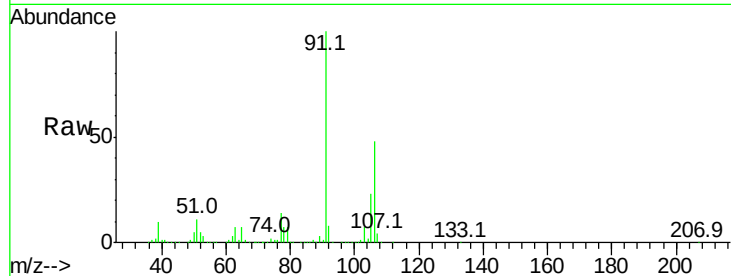
VSTD02593

Tgt Ion:106 Resp: 268606

Ion Ratio Lower Upper

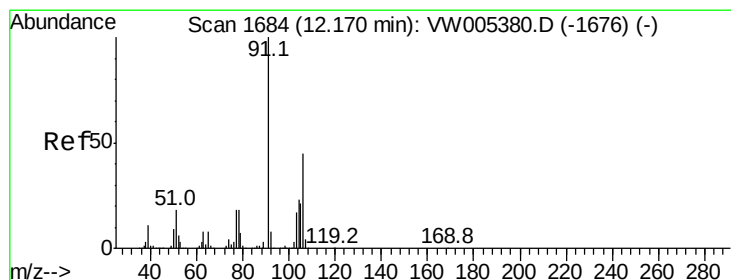
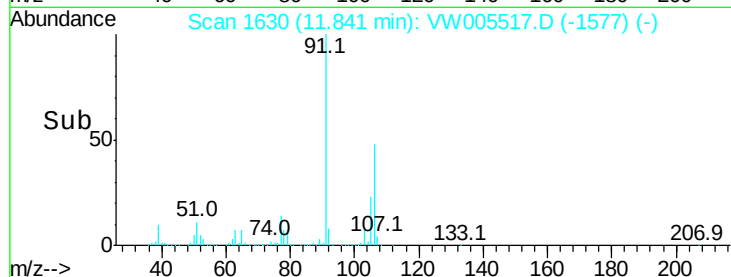
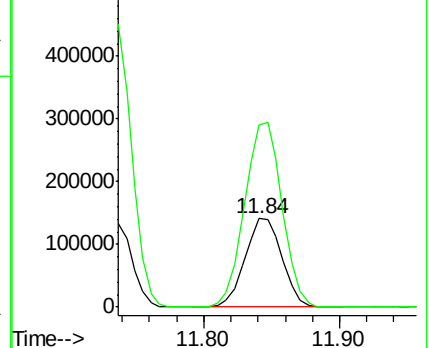
106 100

91 206.6 146.4 271.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 22.284 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW005517.D

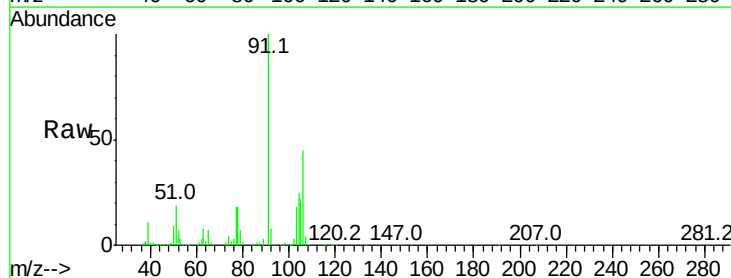
Acq: 19 Sep 2018 16:16

Tgt Ion:106 Resp: 257498

Ion Ratio Lower Upper

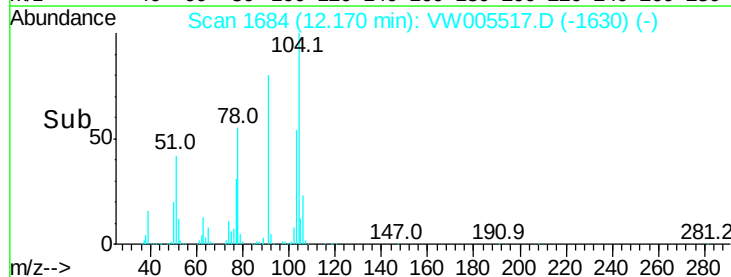
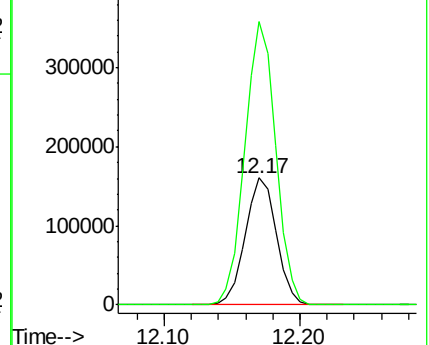
106 100

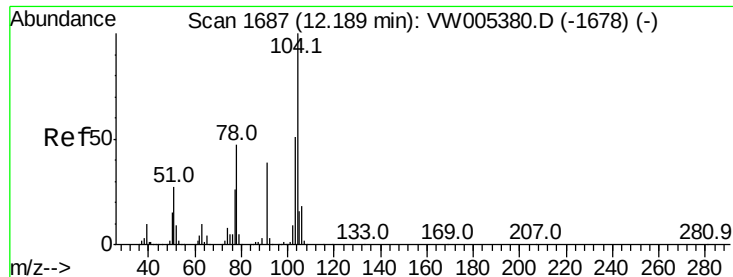
91 223.3 155.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 22.609 ug/L

RT: 12.19 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

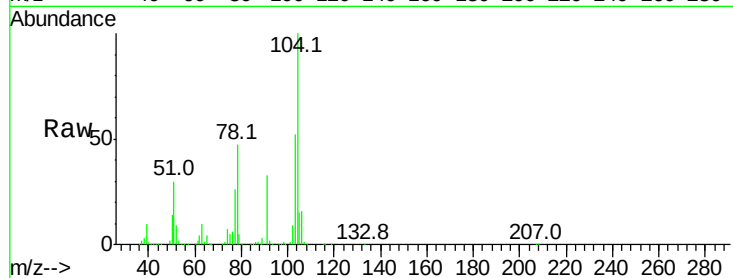
VSTD02593

Tgt Ion:104 Resp: 450922

Ion Ratio Lower Upper

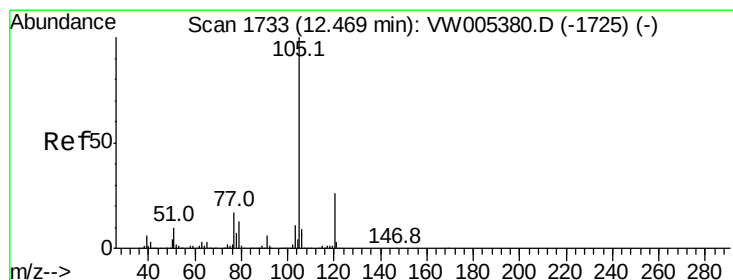
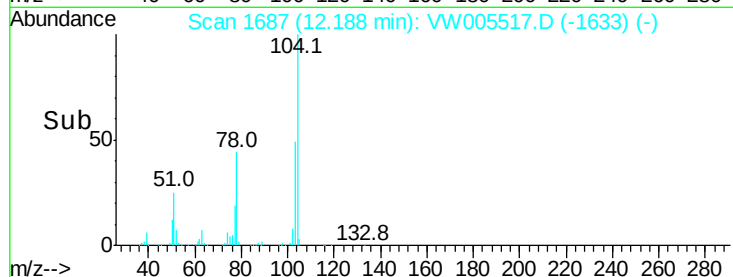
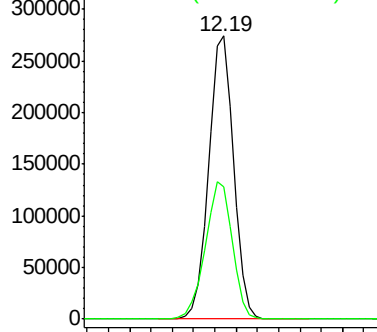
104 100

78 46.6 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 22.484 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

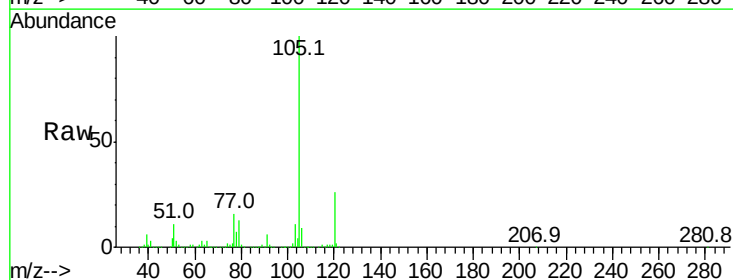
Tgt Ion:105 Resp: 721688

Ion Ratio Lower Upper

105 100

120 25.5 20.3 30.5

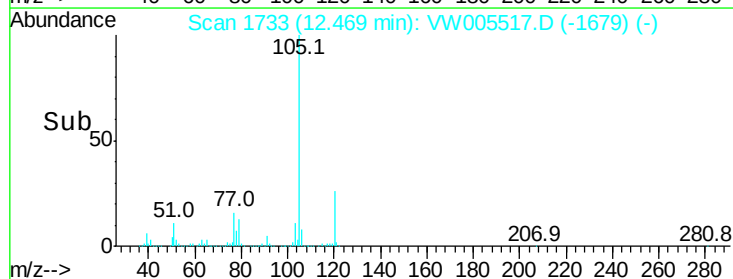
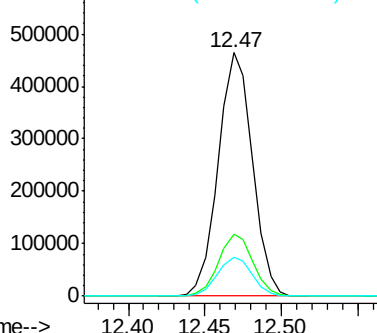
77 16.2 12.9 19.3

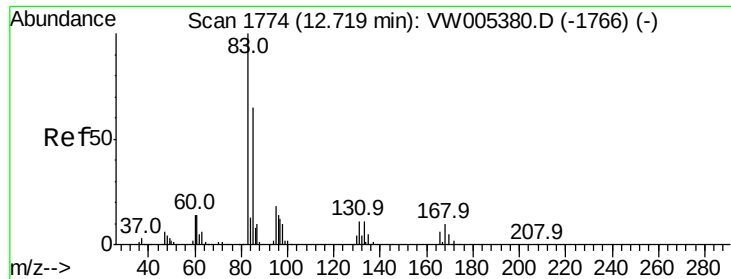


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 22.182 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

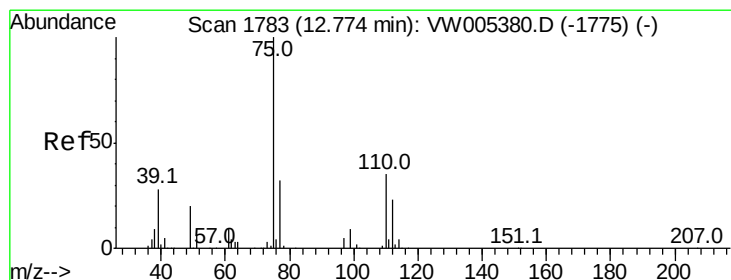
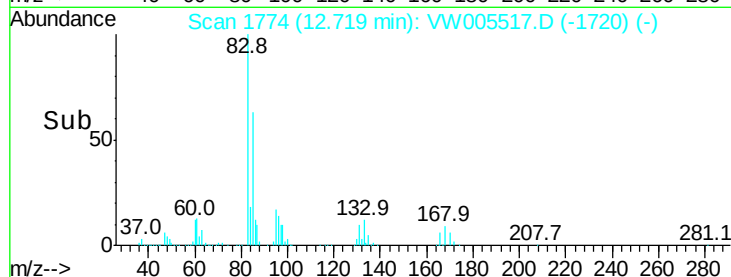
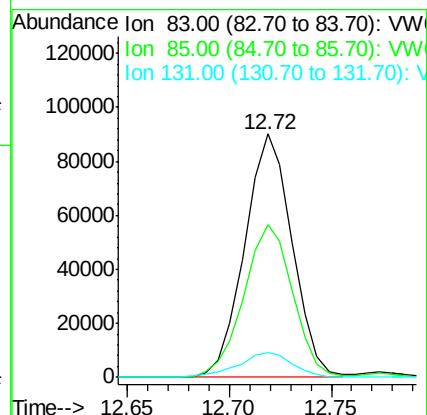
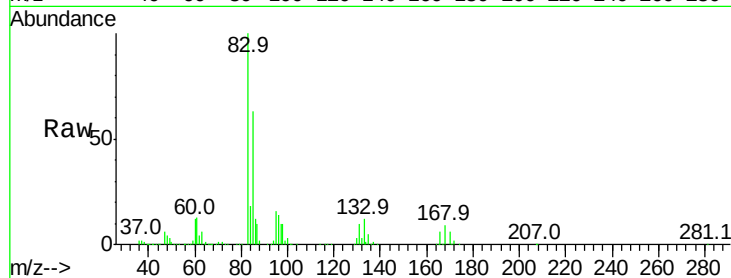
Tgt Ion: 83 Resp: 145758

Ion Ratio Lower Upper

83 100

85 62.7 43.2 80.2

131 9.9 7.9 11.9



#59

1,2,3-Trichloropropane

Concen: 20.071 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VW005517.D

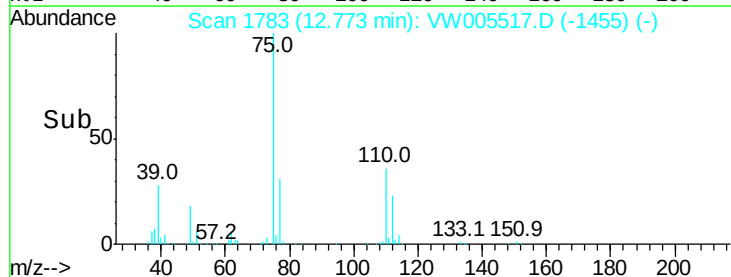
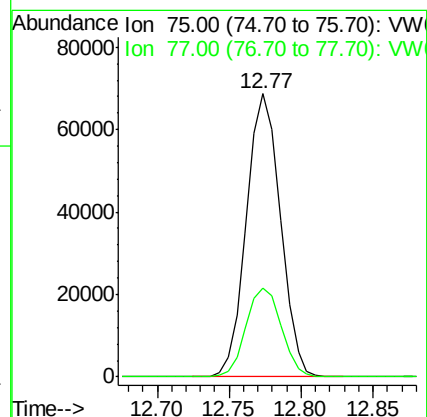
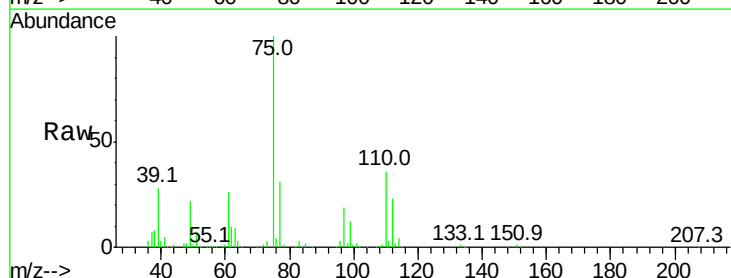
Acq: 19 Sep 2018 16:16

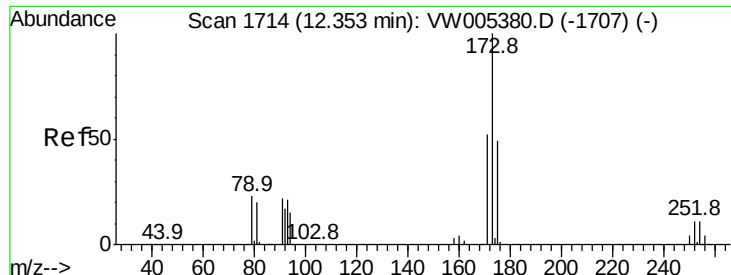
Tgt Ion: 75 Resp: 112721

Ion Ratio Lower Upper

75 100

77 32.4 25.7 38.5





#62

Bromoform

Concen: 21.356 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

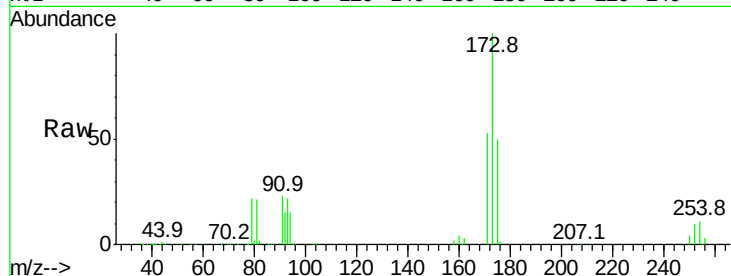
Tgt Ion:173 Resp: 81371

Ion Ratio Lower Upper

173 100

175 49.2 37.8 56.8

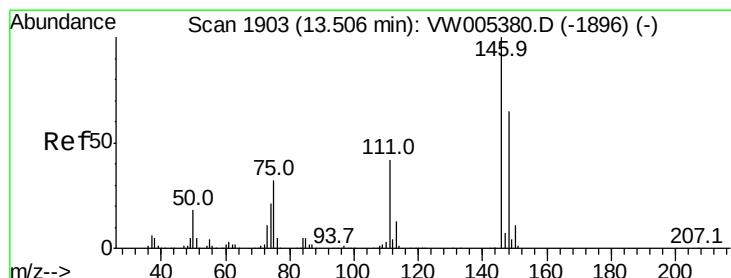
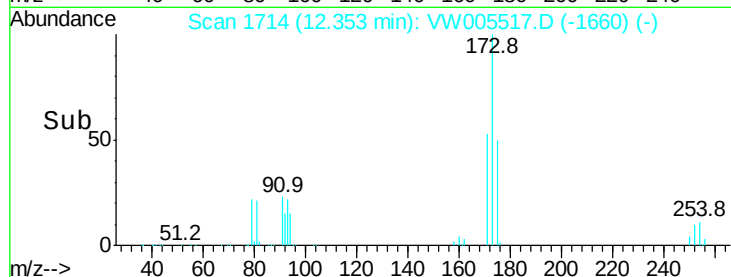
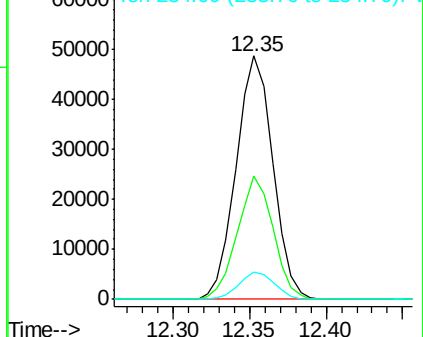
254 11.0 8.6 13.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 22.004 ug/L

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

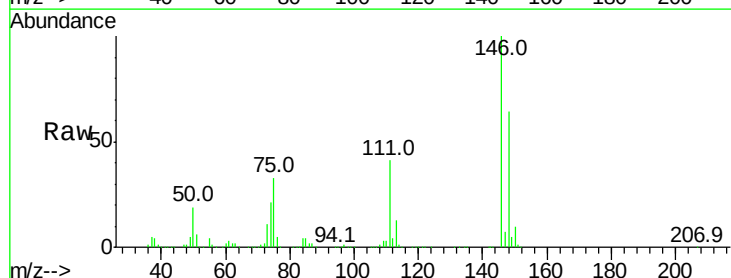
Tgt Ion:146 Resp: 318161

Ion Ratio Lower Upper

146 100

111 40.8 28.1 52.3

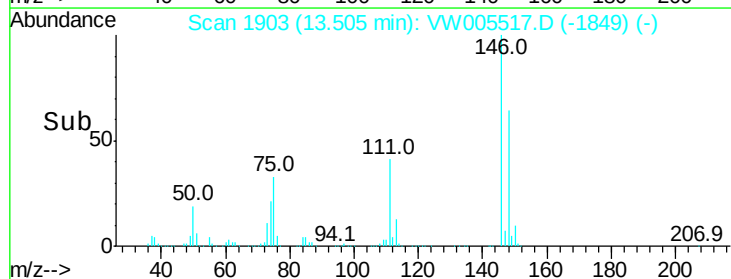
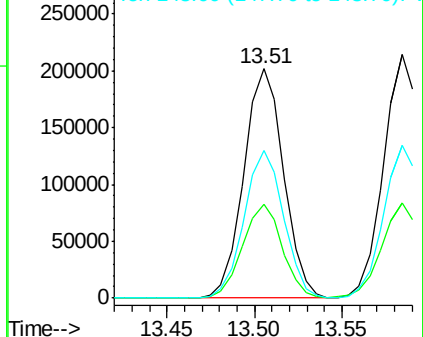
148 64.2 44.7 83.1

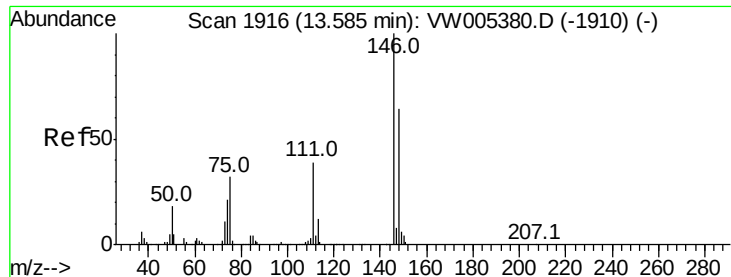


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 22.074 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

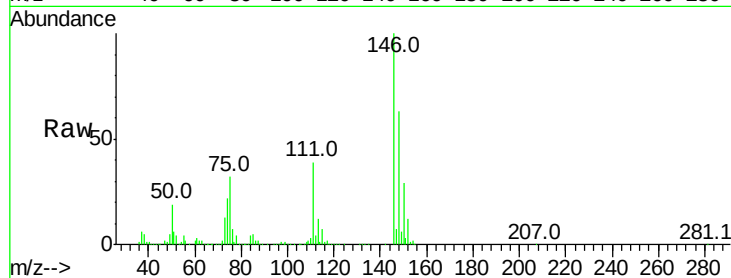
Tgt Ion:146 Resp: 329425

Ion Ratio Lower Upper

146 100

111 39.2 27.9 51.9

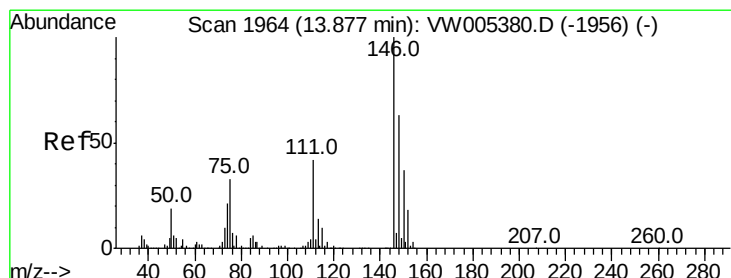
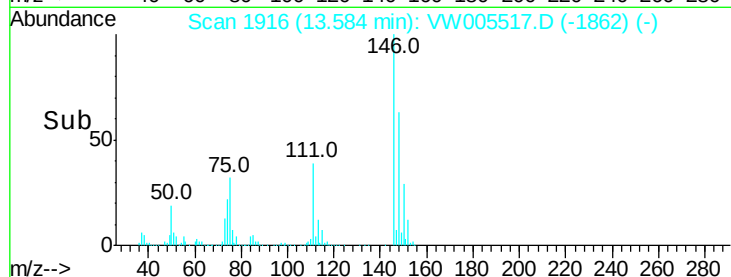
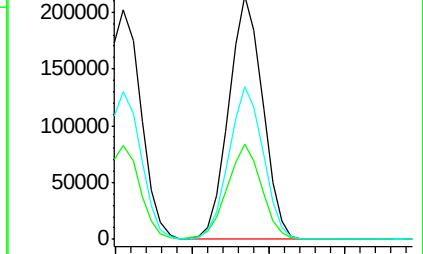
148 62.6 44.3 82.3



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: 21.538 ug/L

RT: 13.88 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

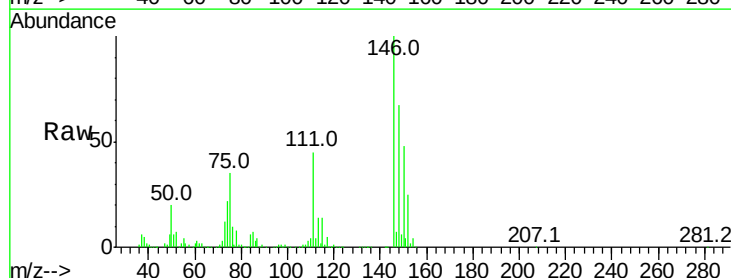
Tgt Ion:146 Resp: 298147

Ion Ratio Lower Upper

146 100

111 44.9 32.9 49.3

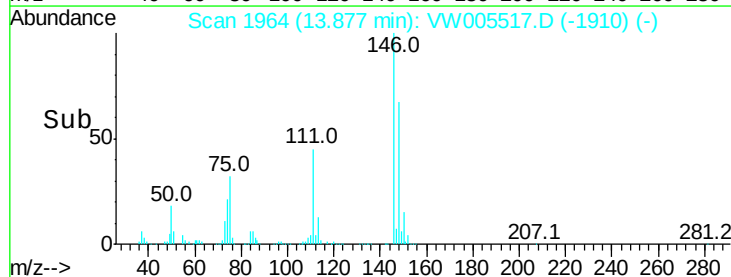
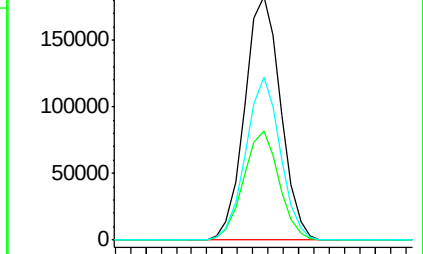
148 66.9 50.6 75.8

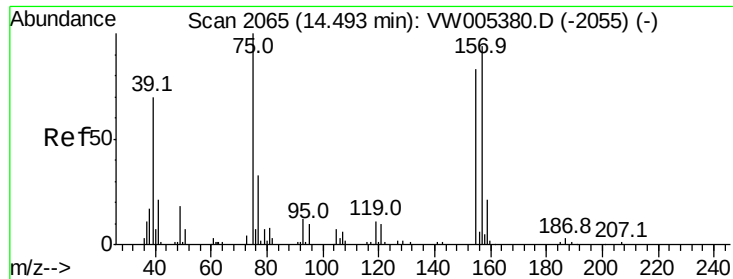


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dibromo-3-chloropropane

Concen: 16.920 ug/L

RT: 14.49 min Scan# 2065

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Instrument :

MSVOA_W

ClientSampleId :

VSTD02593

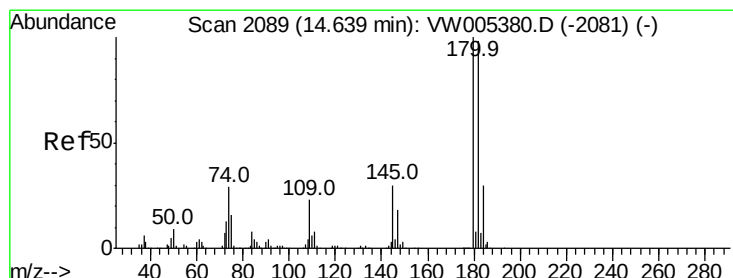
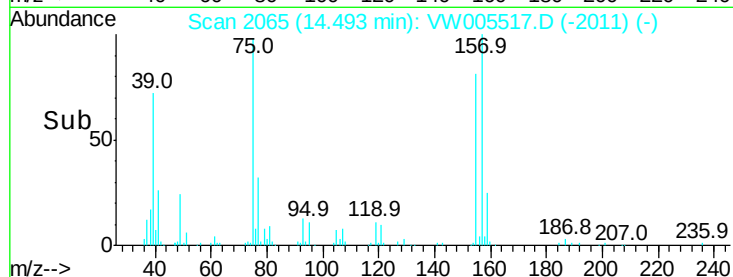
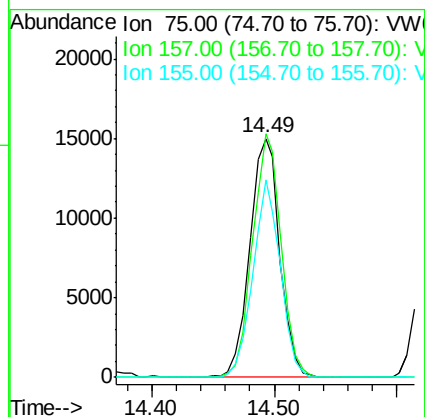
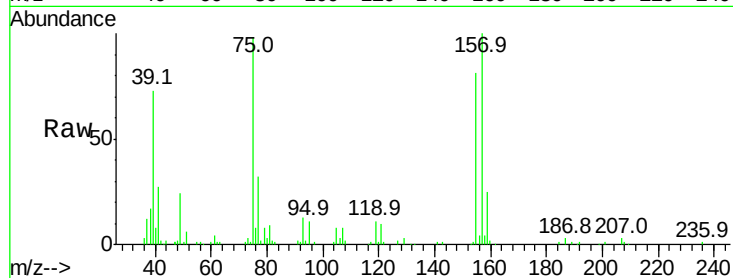
Tgt Ion: 75 Resp: 25415

Ion Ratio Lower Upper

75 100

157 101.9 86.3 129.5

155 82.7 66.6 100.0



#67

1,3,5-Trichlorobenzene

Concen: 21.761 ug/L

RT: 14.64 min Scan# 2089

Delta R.T. -0.00 min

Lab File: VW005517.D

Acq: 19 Sep 2018 16:16

Tgt Ion: 180 Resp: 249141

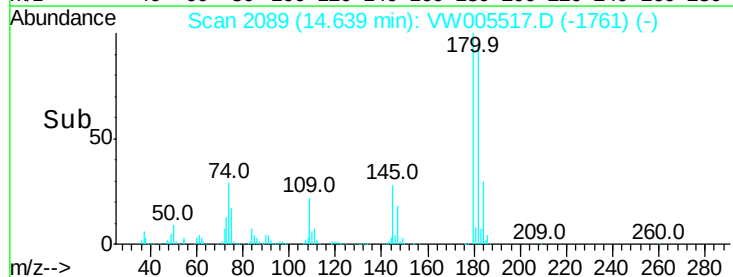
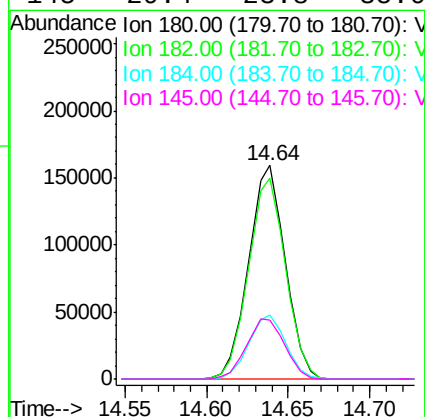
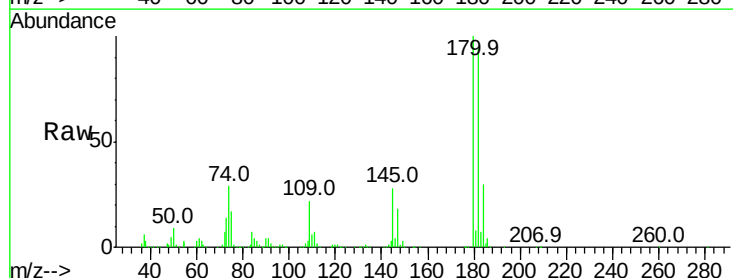
Ion Ratio Lower Upper

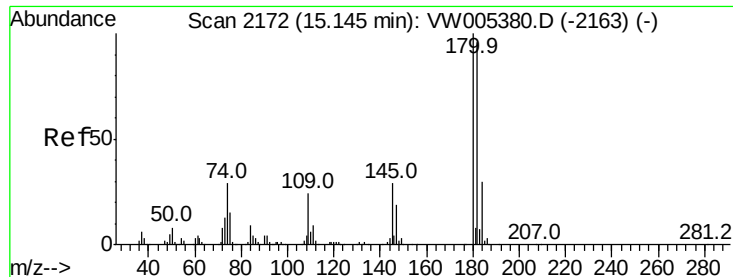
180 100

182 95.3 75.7 113.5

184 30.1 24.0 36.0

145 29.4 23.8 35.6

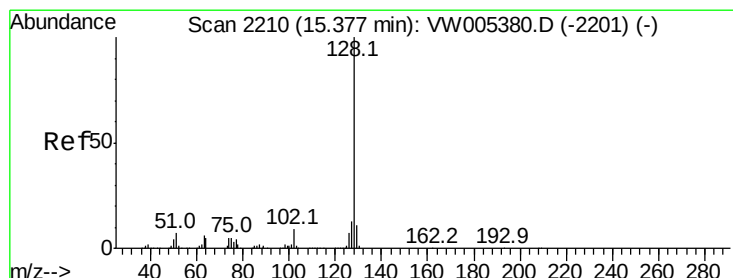
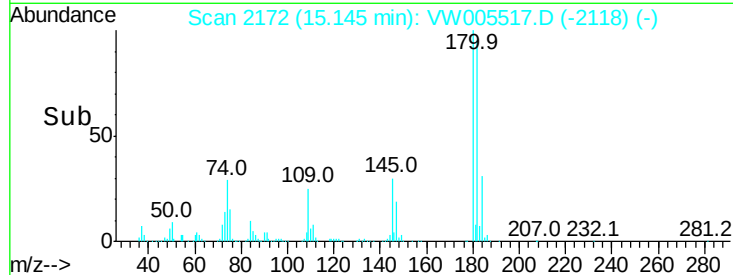
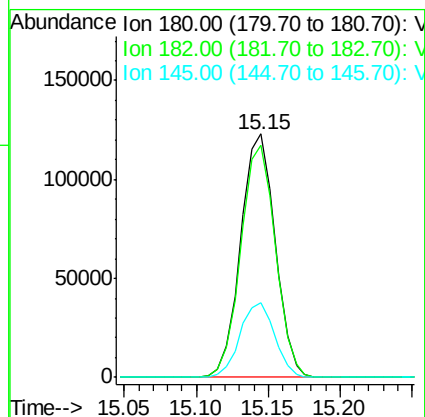
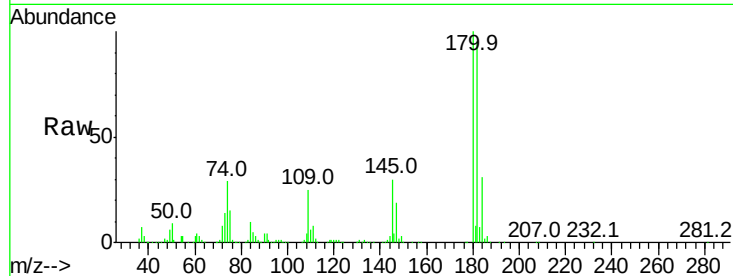




#68
 1,2,4-trichlorobenzene
 Concen: 21.582 ug/L
 RT: 15.15 min Scan# 2172
 Delta R.T. -0.00 min
 Lab File: VW005517.D
 Acq: 19 Sep 2018 16:16

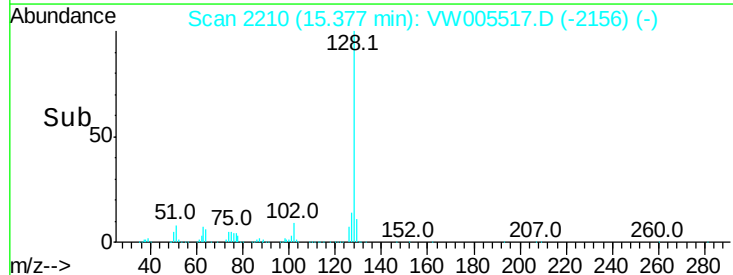
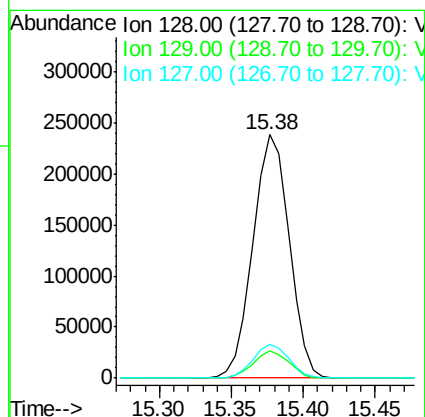
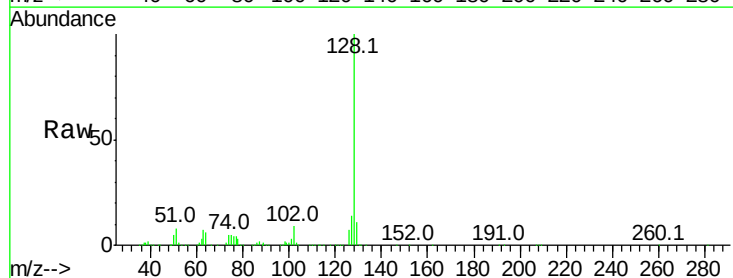
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02593

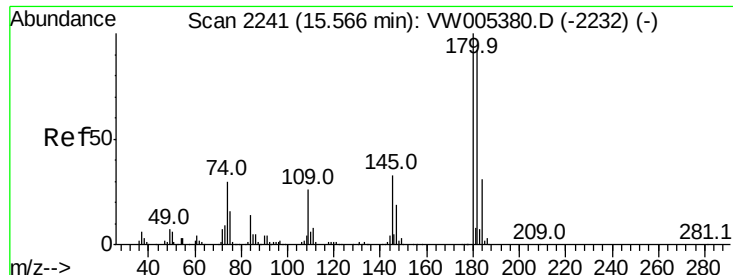
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	204233		
182	95.9	76.6	115.0	
145	30.8	24.2	36.4	



#69
 Naphthalene
 Concen: 20.062 ug/L
 RT: 15.38 min Scan# 2210
 Delta R.T. -0.00 min
 Lab File: VW005517.D
 Acq: 19 Sep 2018 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	415945		
129	11.1	8.8	13.2	
127	13.7	10.9	16.3	

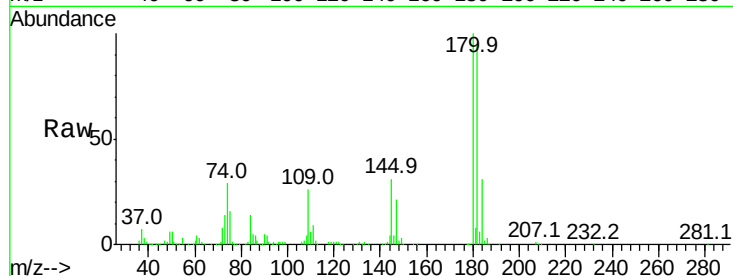




#70
 1,2,3-Trichlorobenzene
 Concen: 21.379 ug/L
 RT: 15.57 min Scan# 2241
 Delta R.T. -0.00 min
 Lab File: VW005517.D
 Acq: 19 Sep 2018 16:16

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02593

Tgt	Ion	Ratio	Lower	Upper
180	100			
182	95.7	76.9	115.3	
145	32.4	26.0	39.0	



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

