

Data File : VW008002.D
Acq On : 28 Dec 2018 13:30
Operator : SY/AP
Sample : VSTDCCC025EC
Misc : 4.83G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02595

Quant Time: Dec 28 22:38:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122618S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 28 22:34:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	84365	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	78425	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	39150	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	18196	21.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.56%
7) Chloroethane-d5	2.89	69	12610	22.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.04%
10) 1,1-Dichloroethene-d2	4.01	63	49541	22.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.04%
20) 2-Butanone-d5	7.07	46	16788	47.35	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.70%
24) Chloroform-d	7.65	84	50764	22.62	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.48%
26) 1,2-Dichloroethane-d4	8.31	65	30028	22.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.24%
29) Benzene-d6	8.27	84	89054	20.25	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	81.00%
33) 1,2-Dichloropropane-d6	9.27	67	24140	20.18	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	80.72%
37) Toluene-d8	10.32	98	86563	20.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	80.80%
38) trans-1,3-Dichloropropene-	10.58	79	14377	20.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.72%
39) 2-Hexanone-d5	10.93	63	13950	45.59	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.18%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	26024	22.60	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.40%
61) 1,2-Dichlorobenzene-d4	13.86	152	33301	21.06	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	84.24%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	20982	22.566 ug/L	97
3) Chloromethane	2.22	50	17662	24.103 ug/L	97
5) Vinyl chloride	2.37	62	24057	26.392 ug/L	97
6) Bromomethane	2.79	94	13846	25.604 ug/L	97
8) Chloroethane	2.93	64	12130	26.784 ug/L	93
9) Trichlorofluoromethane	3.26	101	22481	28.561 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	27151	25.494 ug/L #	89
12) 1,1-Dichloroethene	4.03	96	26015	26.676 ug/L	99
13) Acetone	4.12	43	17737	51.200 ug/L	96
14) Carbon disulfide	4.37	76	80631	26.104 ug/L	99
15) Methyl Acetate	4.67	43	13557	25.717 ug/L	96
16) Methylene chloride	4.90	84	31276	22.911 ug/L	96
17) Methyl tert-butyl Ether	5.42	73	44424	25.628 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	27498	25.994 ug/L	94
19) 1,1-Dichloroethane	6.21	63	45838	26.045 ug/L	92
21) 2-Butanone	7.18	43	19175	48.644 ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	28725	25.340 ug/L	96

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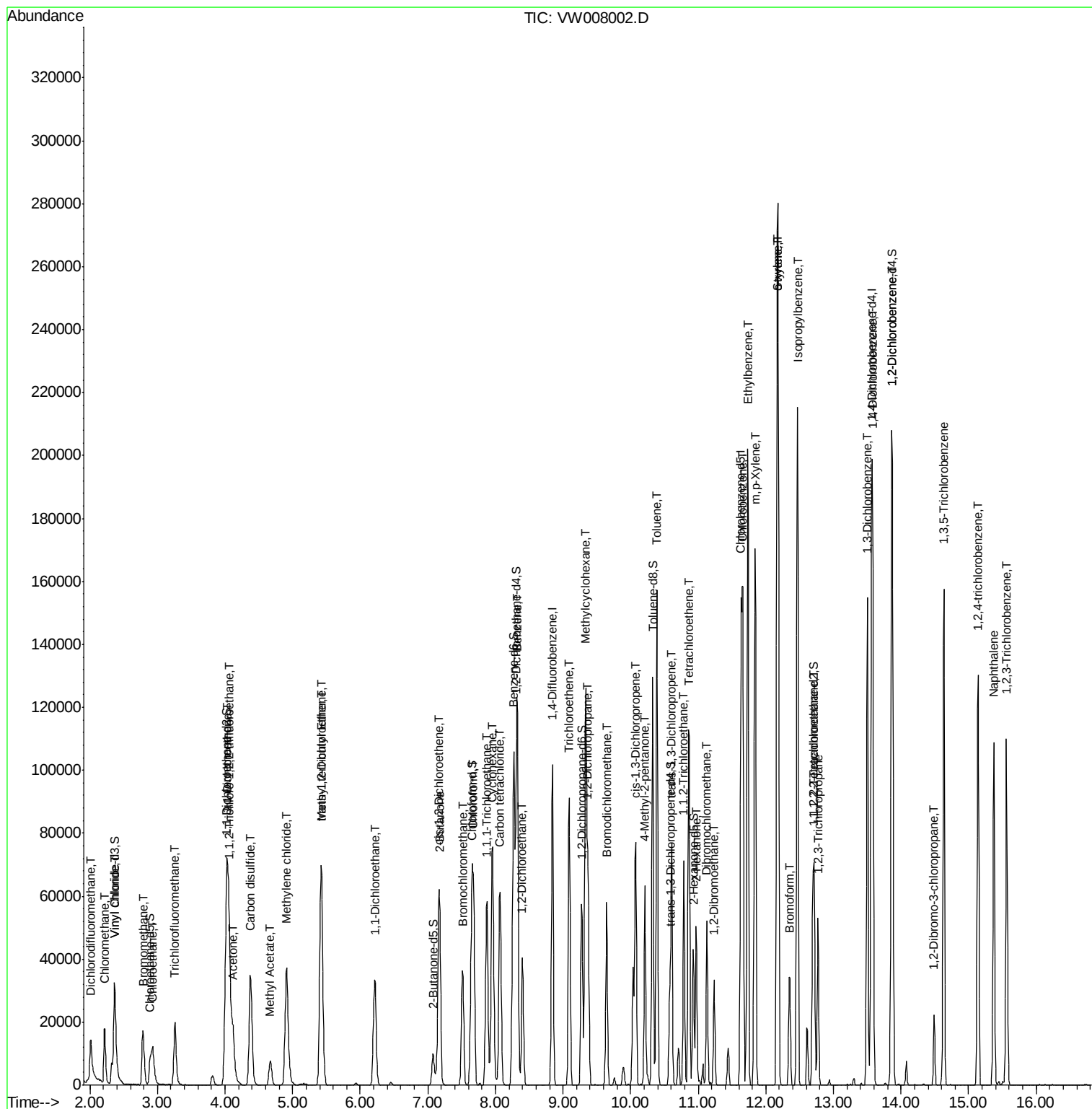
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	13626	26.698	ug/L	96
25) Chloroform	7.68	83	52015	26.242	ug/L	99
27) 1,2-Dichloroethane	8.40	62	38859	26.730	ug/L	96
30) Cyclohexane	7.96	56	41543	24.078	ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	49669	26.416	ug/L	98
32) Carbon tetrachloride	8.07	117	48088	26.639	ug/L	99
34) Benzene	8.32	78	103659	24.701	ug/L	100
35) Trichloroethene	9.09	95	30093	24.681	ug/L	97
36) Methylcyclohexane	9.34	83	52044	24.891	ug/L	98
40) 1,2-Dichloropropane	9.37	63	24242	24.574	ug/L	99
41) Bromodichloromethane	9.65	83	37628	25.936	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	42406	24.626	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	37459	47.977	ug/L	99
44) Toluene	10.39	91	117090	24.938	ug/L	97
45) trans-1,3-Dichloropropene	10.61	75	39512	24.902	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	21181	25.379	ug/L	99
47) Tetrachloroethene	10.87	164	24898	25.701	ug/L	96
49) 2-Hexanone	10.97	43	29729	52.776	ug/L	95
50) Dibromochloromethane	11.13	129	28309	26.624	ug/L	98
51) 1,2-Dibromoethane	11.24	107	22181	26.040	ug/L	94
52) Chlorobenzene	11.66	112	78969	25.837	ug/L	97
53) Ethylbenzene	11.73	91	137590	25.505	ug/L	99
54) m,p-Xylene	11.84	106	52409	25.786	ug/L	97
55) o-xylene	12.17	106	48674	25.252	ug/L	99
56) Styrene	12.18	104	85187	26.074	ug/L	100
57) Isopropylbenzene	12.47	105	141983	26.003	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	25901	25.030	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	21462	25.785	ug/L	98
62) Bromoform	12.35	173	16618	26.925	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	61000	24.372	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	63013	25.317	ug/L	94
65) 1,2-Dichlorobenzene	13.87	146	57750	25.417	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	6125	27.342	ug/L	92
67) 1,3,5-Trichlorobenzene	14.63	180	46460	25.344	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	39019	24.796	ug/L	98
69) Naphthalene	15.37	128	93175	26.158	ug/L	99
70) 1,2,3-Trichlorobenzene	15.57	180	35482	25.471	ug/L	99

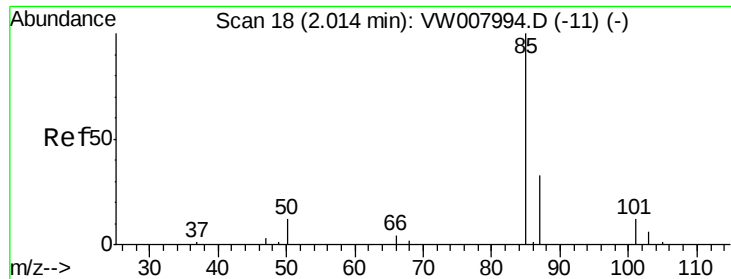
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.566 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

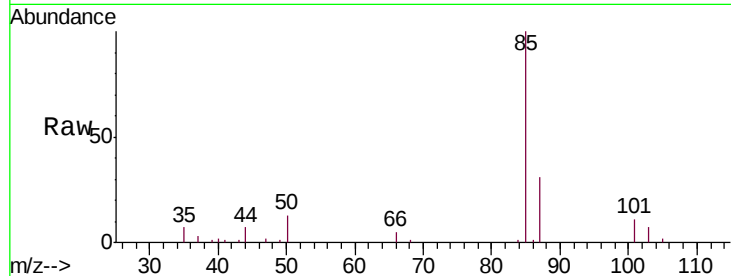
VSTD02595

Tgt Ion: 85 Resp: 20982

Ion Ratio Lower Upper

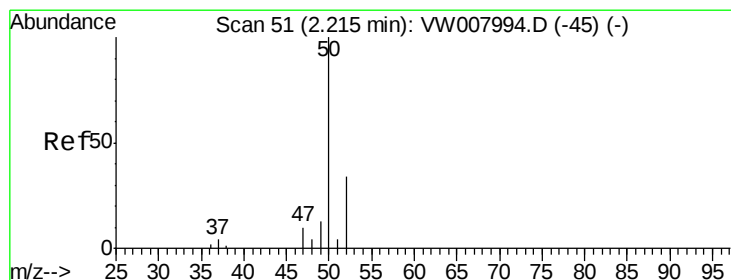
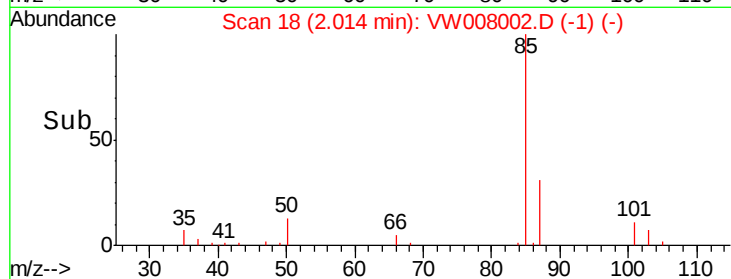
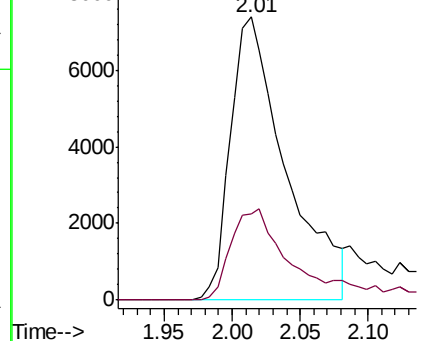
85 100

87 31.2 20.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 24.103 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW008002.D

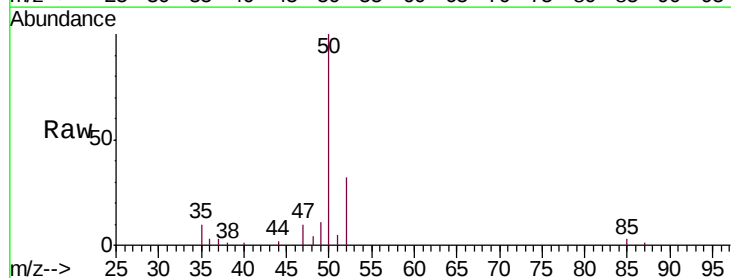
Acq: 28 Dec 2018 13:30

Tgt Ion: 50 Resp: 17662

Ion Ratio Lower Upper

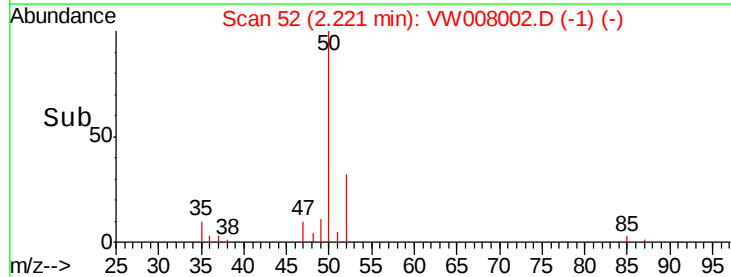
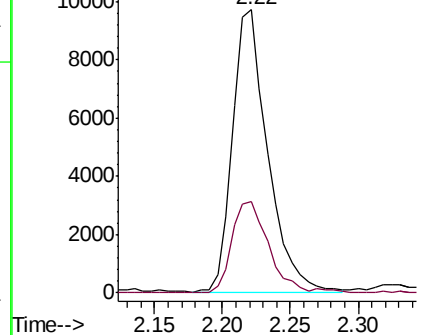
50 100

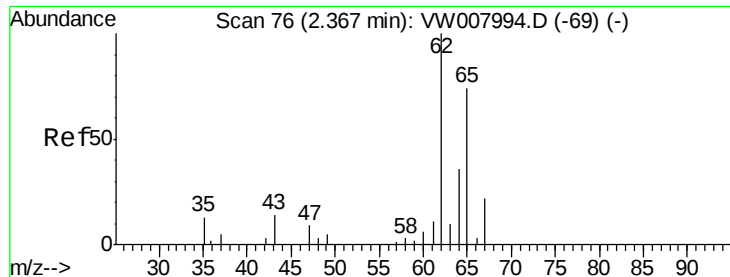
52 32.3 21.4 39.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 26.392 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

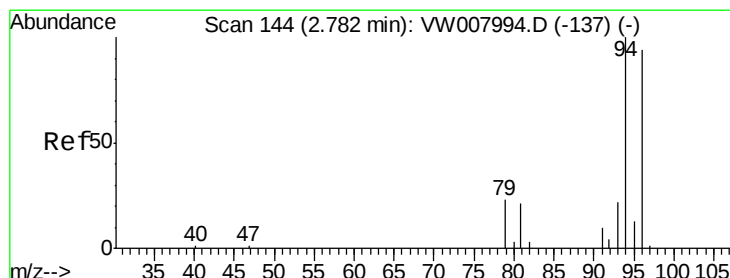
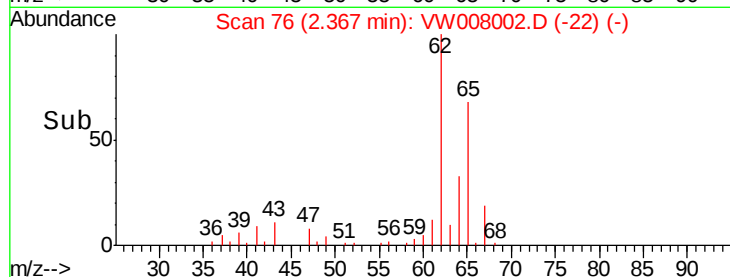
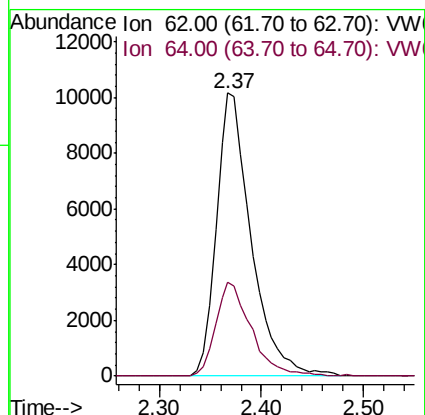
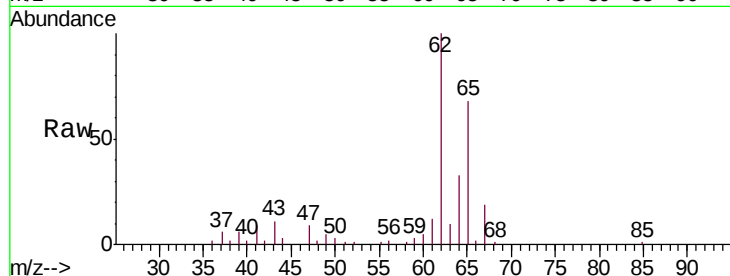
VSTD02595

Tgt Ion: 62 Resp: 24057

Ion Ratio Lower Upper

62 100

64 33.1 22.0 41.0



#6

Bromomethane

Concen: 25.604 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW008002.D

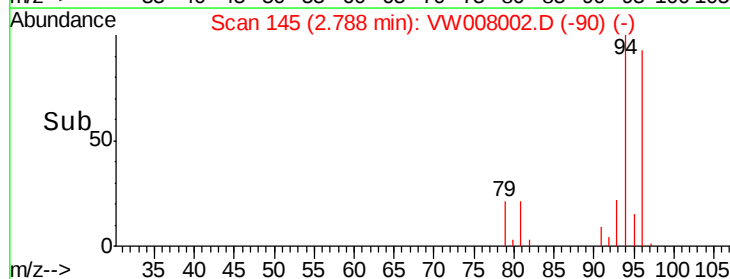
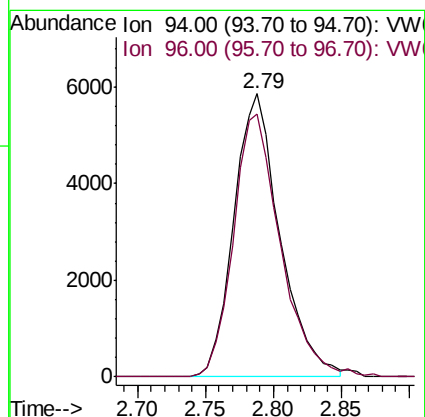
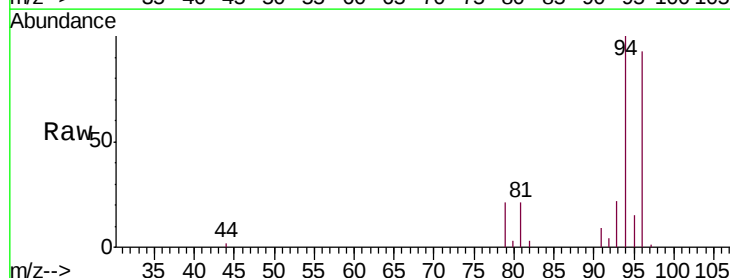
Acq: 28 Dec 2018 13:30

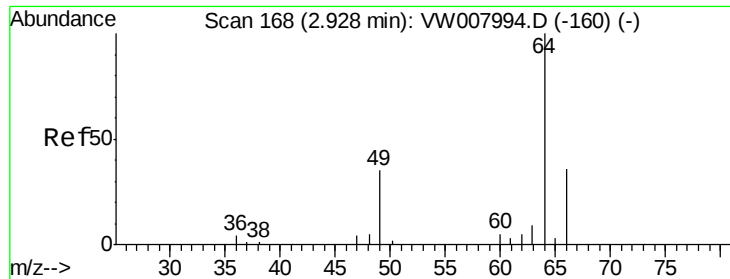
Tgt Ion: 94 Resp: 13846

Ion Ratio Lower Upper

94 100

96 94.9 9.2 175.4





#8

Chloroethane

Concen: 26.784 ug/L

RT: 2.93 min Scan# 169

Delta R.T. 0.01 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

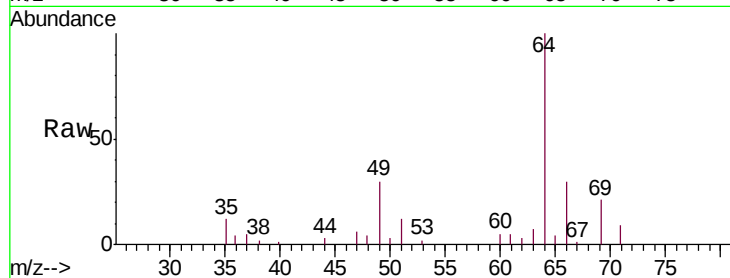
VSTD02595

Tgt Ion: 64 Resp: 12130

Ion Ratio Lower Upper

64 100

66 29.5 23.3 43.3



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW

2.93

4000

3000

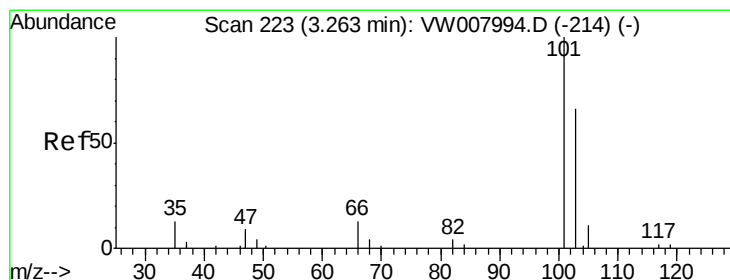
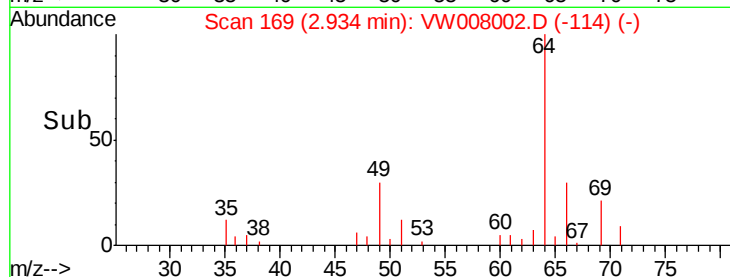
2000

1000

0

2.90 3.00

Time-->



#9

Trichlorofluoromethane

Concen: 28.561 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW008002.D

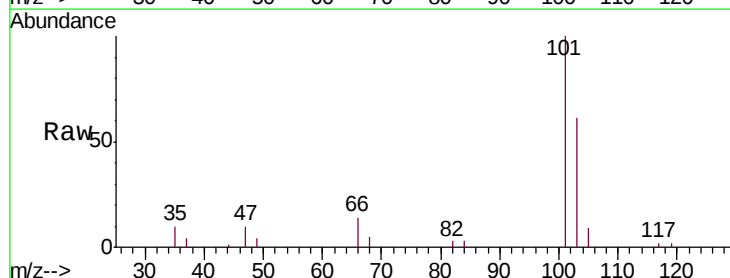
Acq: 28 Dec 2018 13:30

Tgt Ion: 101 Resp: 22481

Ion Ratio Lower Upper

101 100

103 63.9 44.7 83.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.26

10000

8000

6000

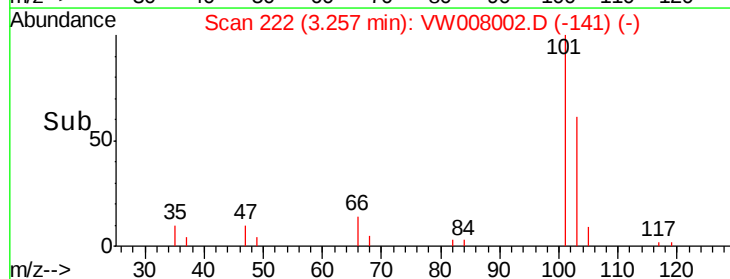
4000

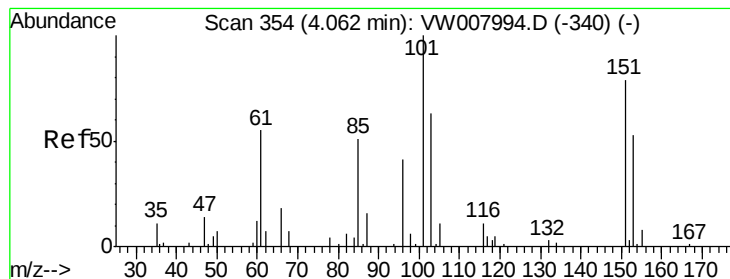
2000

0

3.20 3.30 3.40

Time-->





#11

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

Concen: 25.494 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampled :

VSTD02595

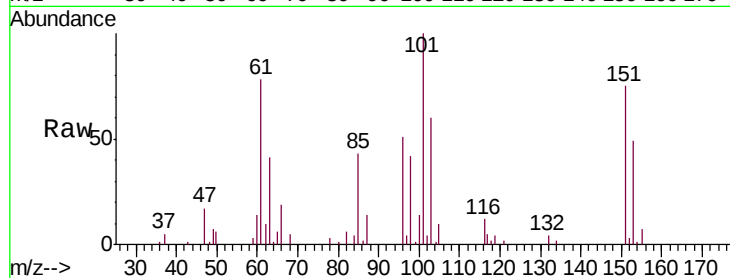
Tgt Ion: 101 Resp: 27151

Ion Ratio Lower Upper

101 100

85 25.6 33.4 50.2#

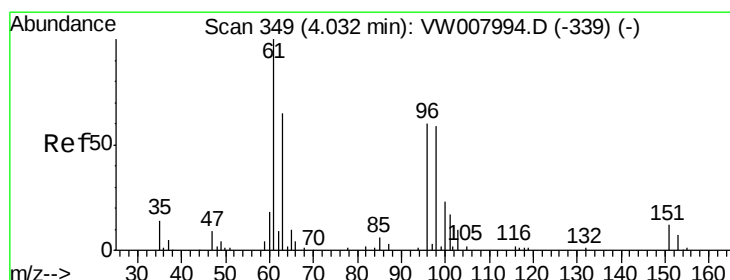
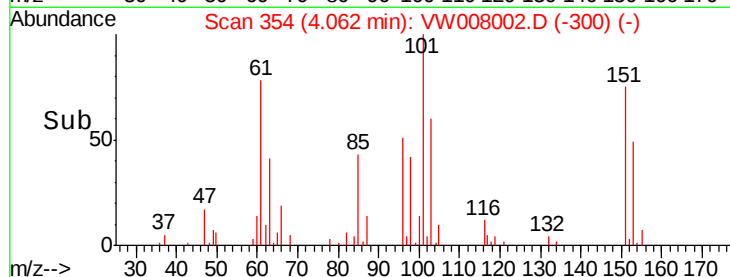
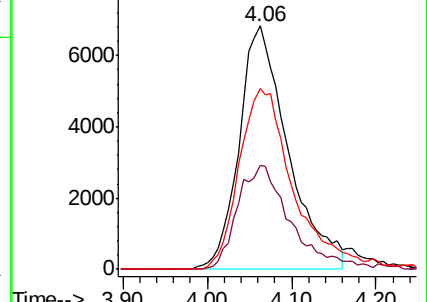
151 81.3 63.2 94.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.676 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

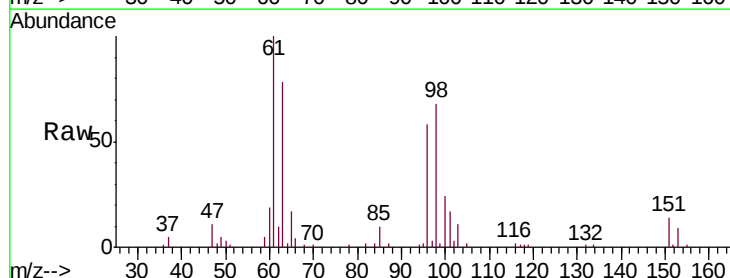
Tgt Ion: 96 Resp: 26015

Ion Ratio Lower Upper

96 100

61 171.5 120.3 223.3

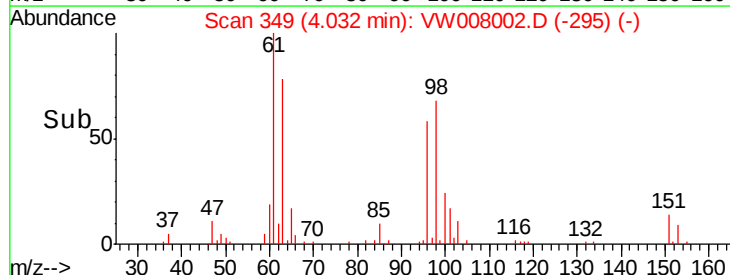
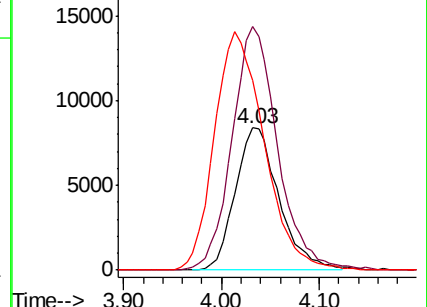
63 134.1 91.6 170.0

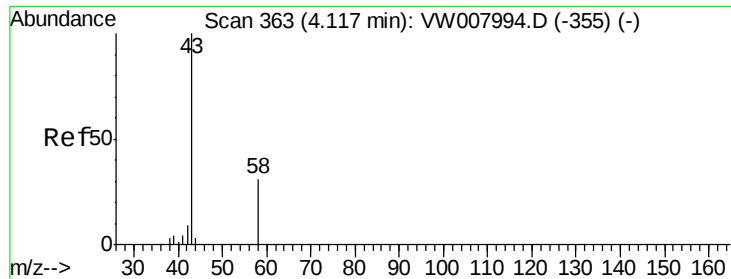


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 51.200 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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ClientSampleId :

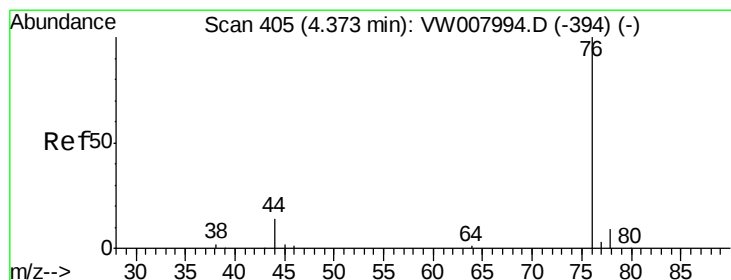
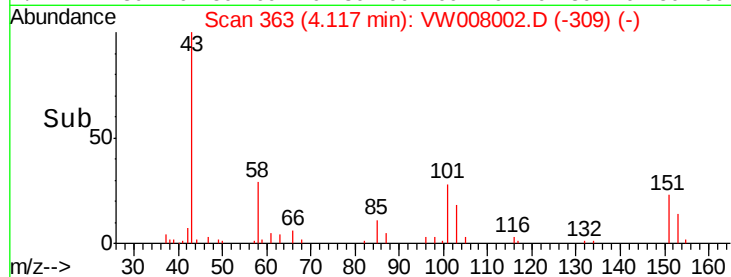
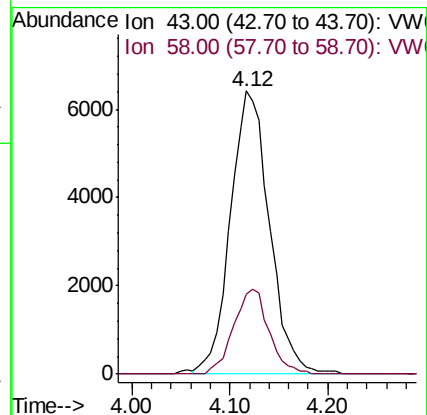
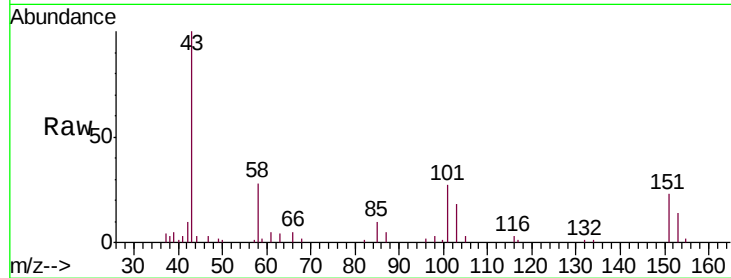
VSTD02595

Tgt Ion: 43 Resp: 17737

Ion Ratio Lower Upper

43 100

58 27.3 0.0 58.6



#14

Carbon disulfide

Concen: 26.104 ug/L

RT: 4.37 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW008002.D

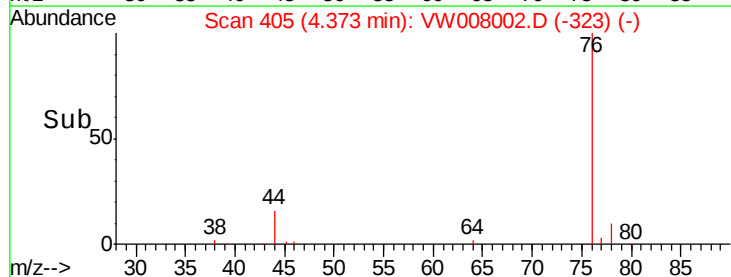
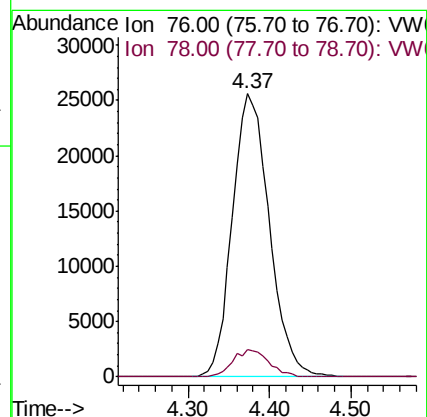
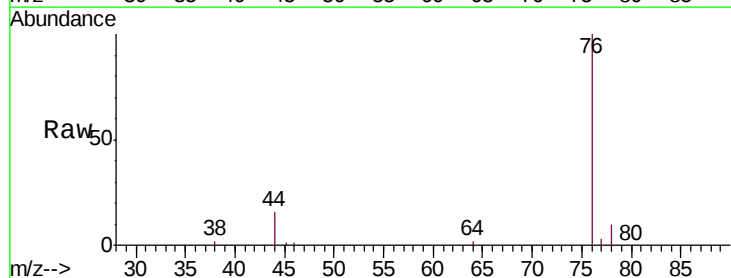
Acq: 28 Dec 2018 13:30

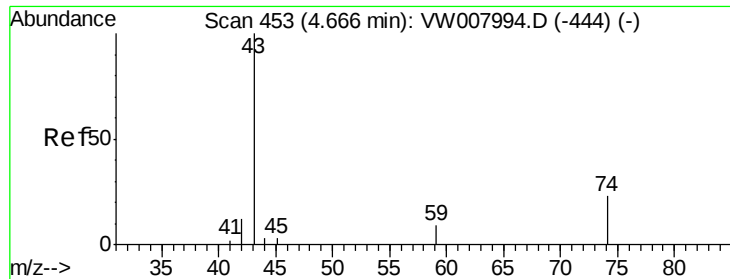
Tgt Ion: 76 Resp: 80631

Ion Ratio Lower Upper

76 100

78 9.8 7.5 11.3

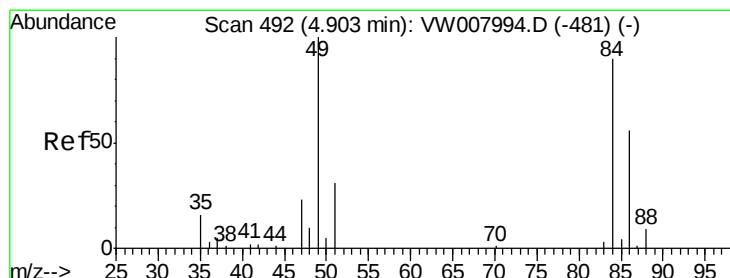
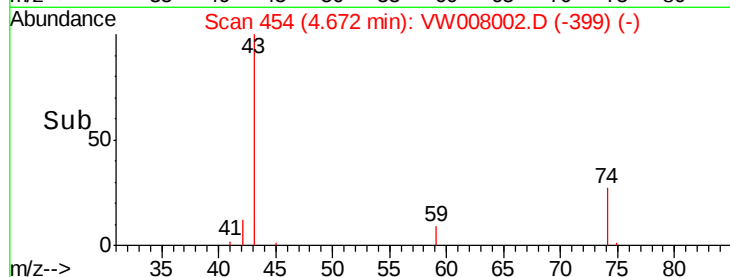
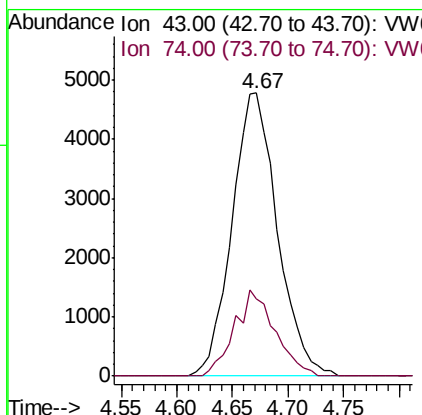
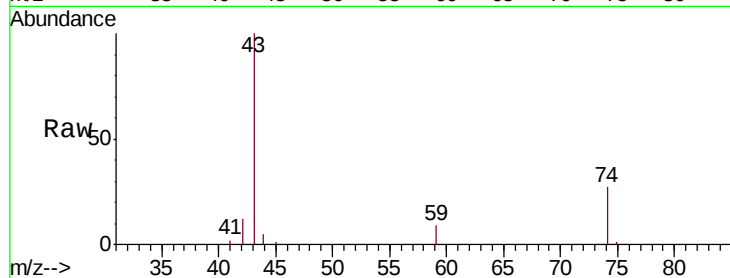




#15
Methyl Acetate
Concen: 25.717 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

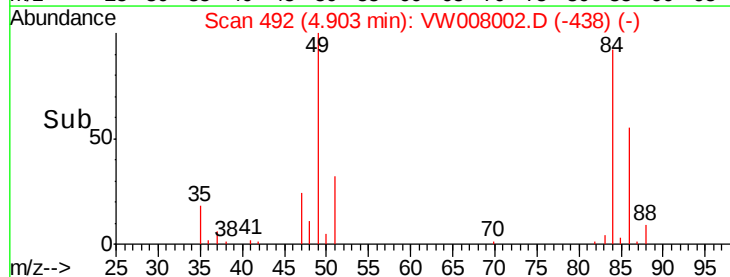
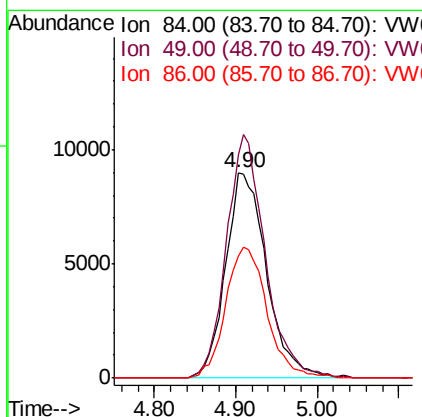
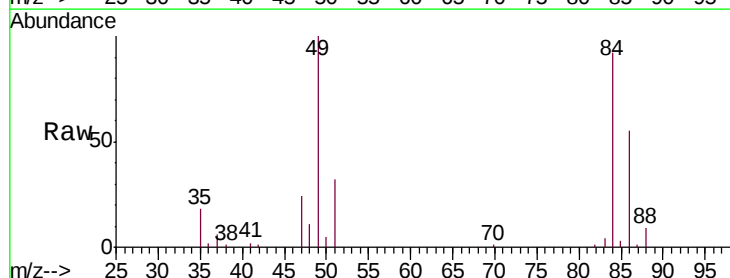
Instrument :
MSVOA_W
ClientSampleID :
VSTD02595

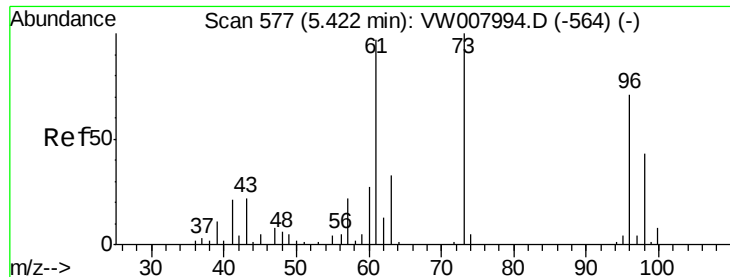
Tgt Ion: 43 Resp: 13557
Ion Ratio Lower Upper
43 100
74 27.2 20.2 30.2



#16
Methylene chloride
Concen: 22.911 ug/L
RT: 4.90 min Scan# 492
Delta R.T. 0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

Tgt Ion: 84 Resp: 31276
Ion Ratio Lower Upper
84 100
49 108.5 79.2 147.0
86 59.3 43.2 80.2

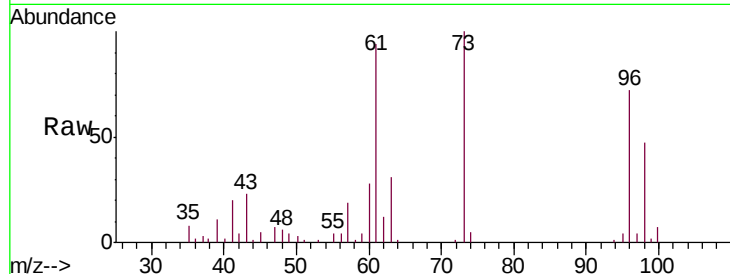




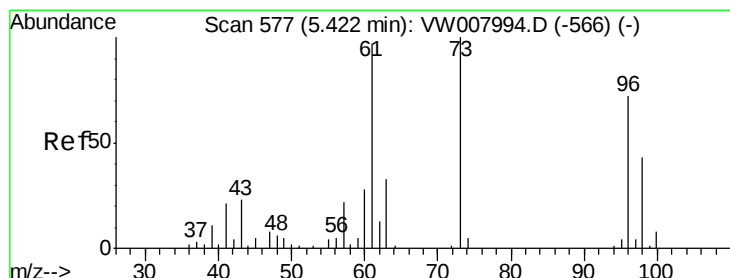
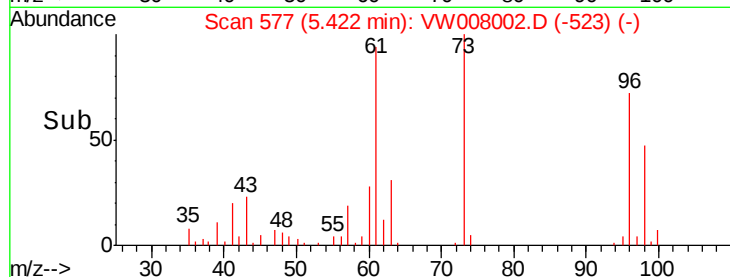
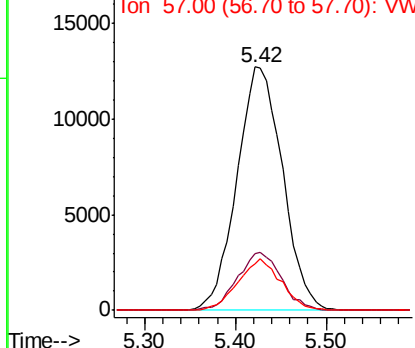
#17
Methyl tert-butyl Ether
Concen: 25.628 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

Instrument :
MSVOA_W
ClientSampleId :
VSTD02595

Tgt Ion: 73 Resp: 44424
Ion Ratio Lower Upper
73 100
43 23.0 18.5 27.7
57 19.7 16.4 24.6

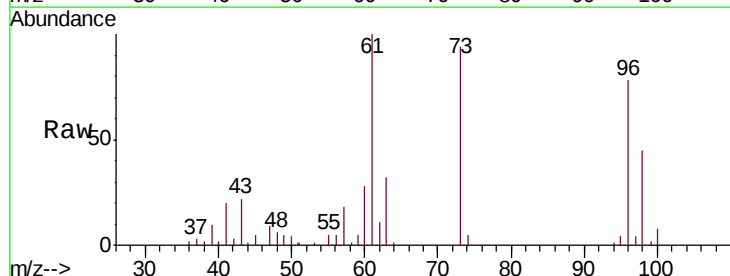


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

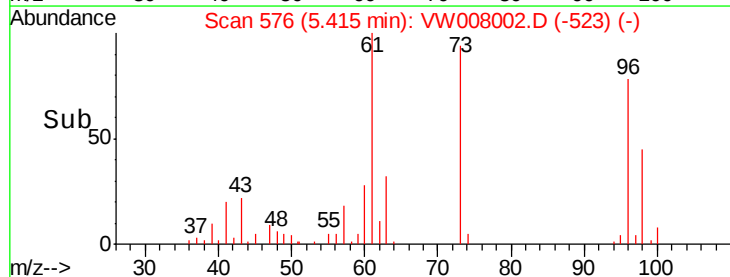
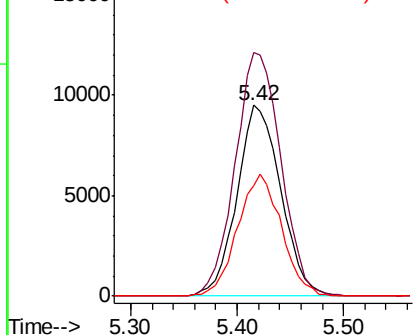


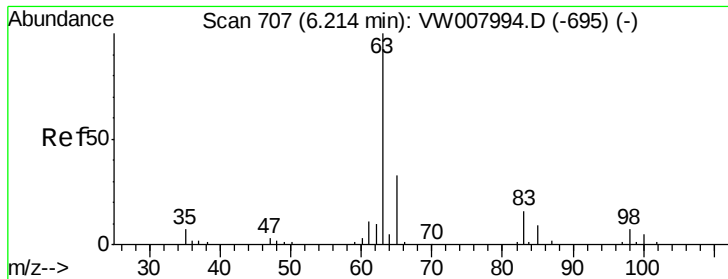
#18
trans-1,2-Dichloroethene
Concen: 25.994 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

Tgt Ion: 96 Resp: 27498
Ion Ratio Lower Upper
96 100
61 127.6 91.4 169.8
98 57.6 48.0 89.2



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

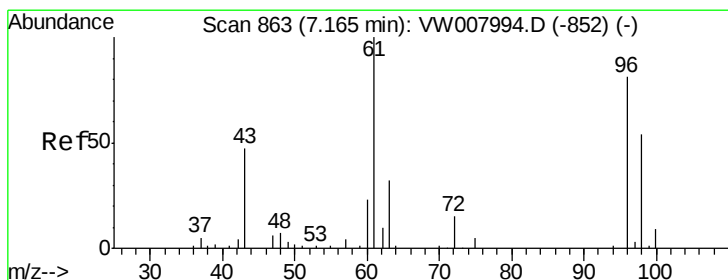
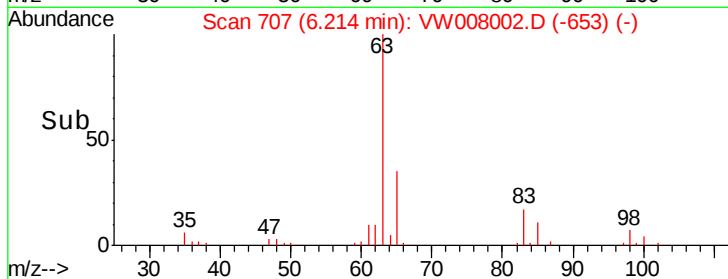
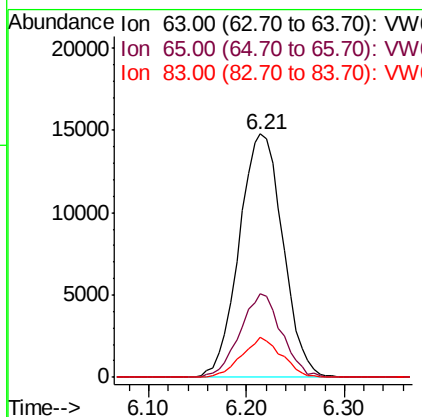
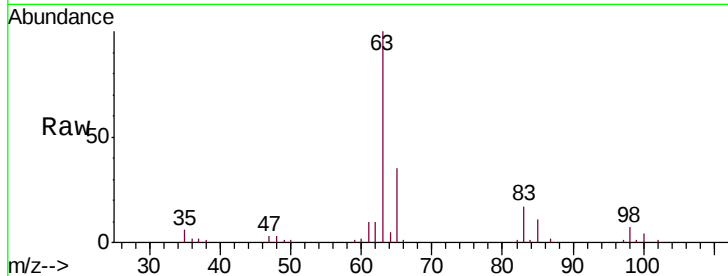




#19
 1,1-Dichloroethane
 Concen: 26.045 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

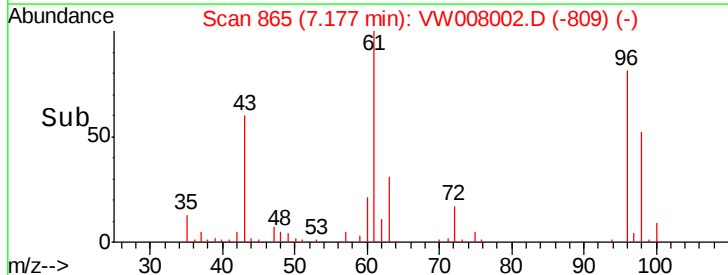
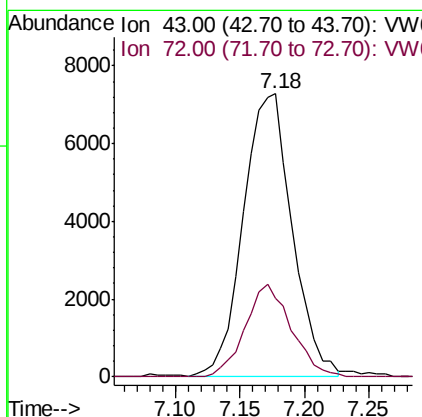
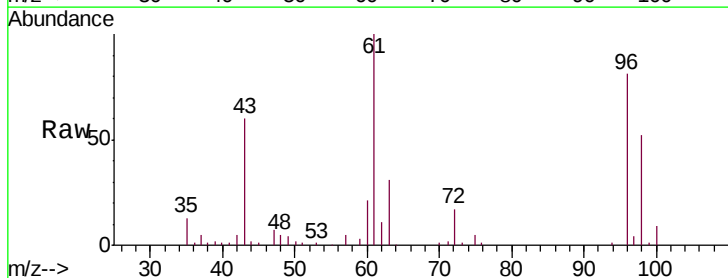
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02595

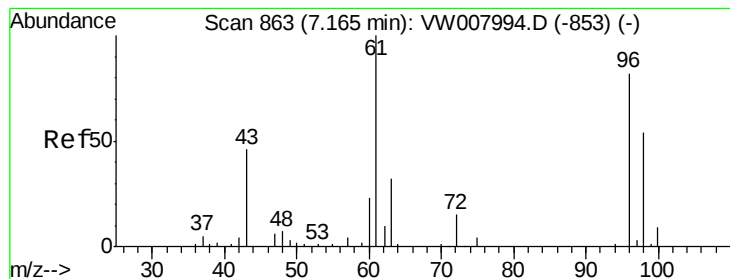
Tgt Ion: 63 Resp: 45838
 Ion Ratio Lower Upper
 63 100
 65 34.5 20.6 38.4
 83 16.6 10.0 18.6



#21
 2-Butanone
 Concen: 48.644 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Tgt Ion: 43 Resp: 19175
 Ion Ratio Lower Upper
 43 100
 72 30.7 14.4 43.4



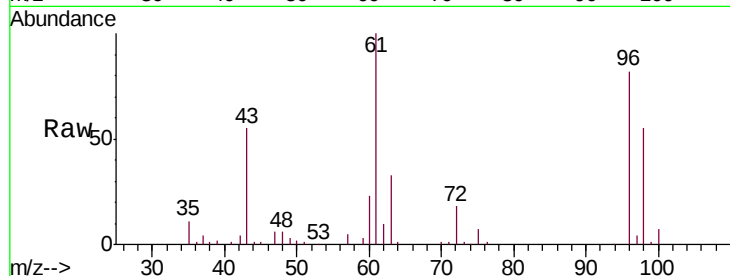


#22

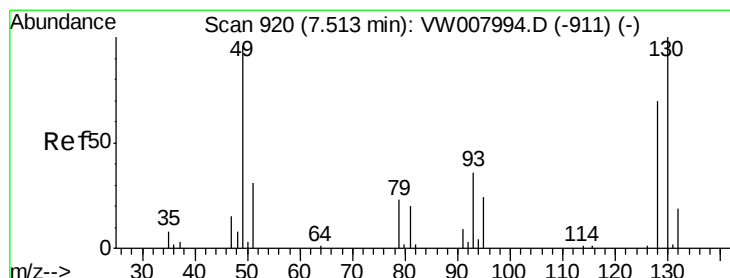
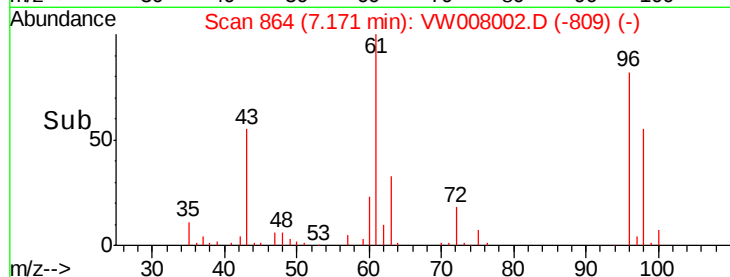
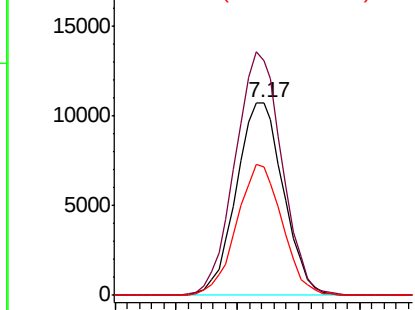
cis-1,2-Dichloroethene
 Concen: 25.340 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02595

Tgt Ion: 96 Resp: 28725
 Ion Ratio Lower Upper
 96 100
 61 121.8 83.4 155.0
 98 66.7 42.3 78.5



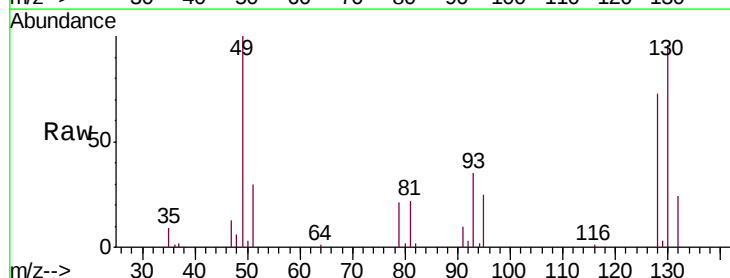
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



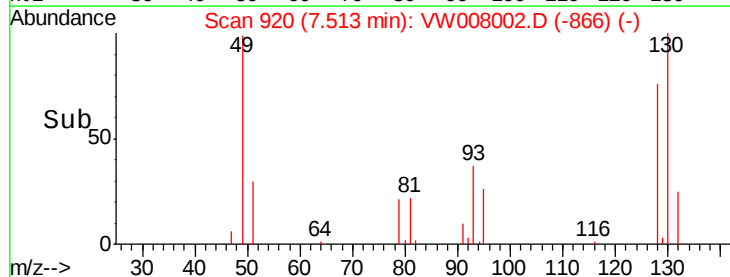
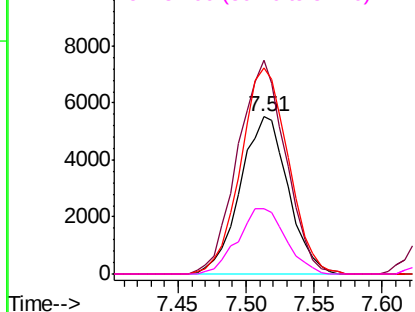
#23

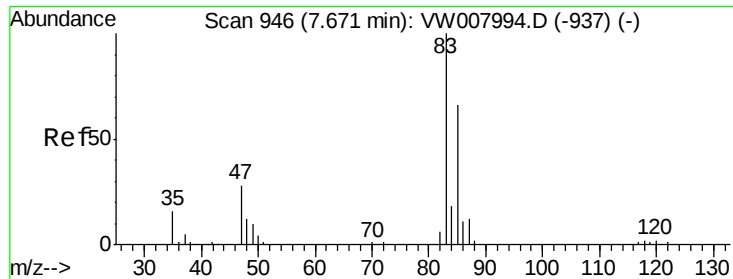
Bromochloromethane
 Concen: 26.698 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Tgt Ion: 128 Resp: 13626
 Ion Ratio Lower Upper
 128 100
 49 136.2 96.9 180.1
 130 131.3 86.2 160.0
 51 41.3 33.5 50.3



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

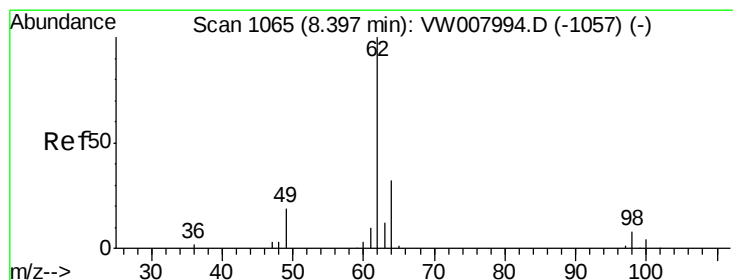
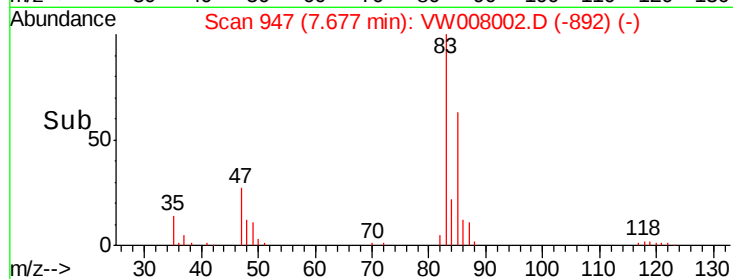
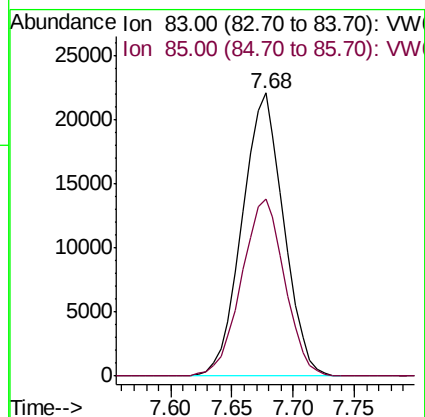
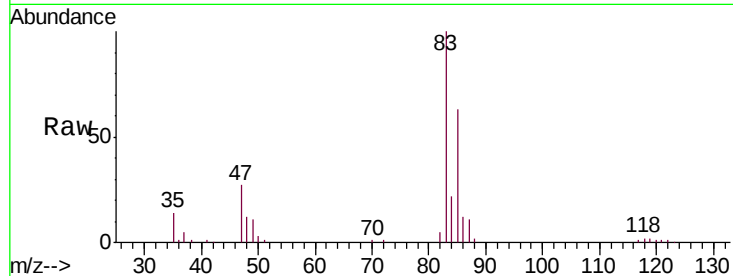




#25
Chloroform
Concen: 26.242 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

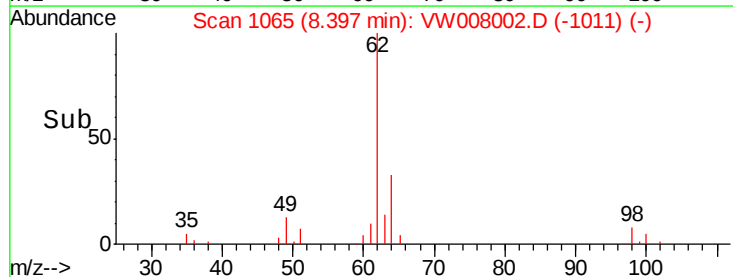
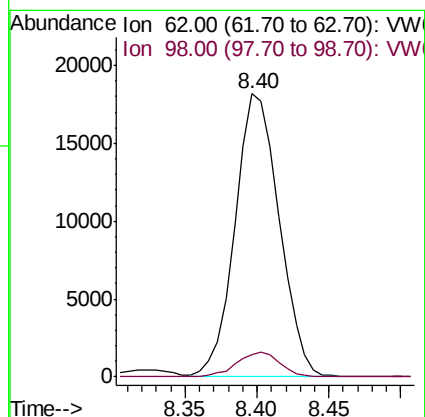
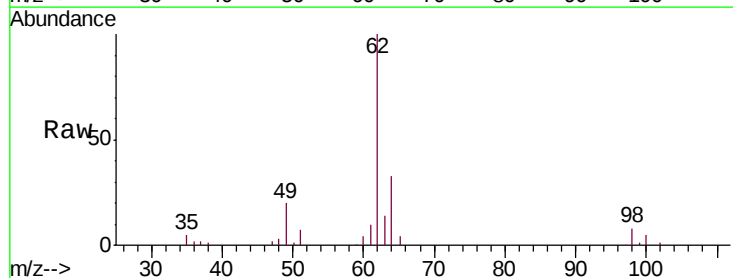
Instrument :
MSVOA_W
ClientSampleId :
VSTD02595

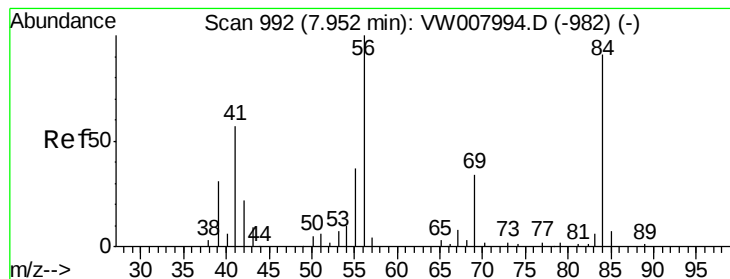
Tgt Ion: 83 Resp: 52015
Ion Ratio Lower Upper
83 100
85 65.0 45.8 85.2



#27
1,2-Dichloroethane
Concen: 26.730 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

Tgt Ion: 62 Resp: 38859
Ion Ratio Lower Upper
62 100
98 8.1 5.4 8.2





#30

Cyclohexane

Concen: 24.078 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02595

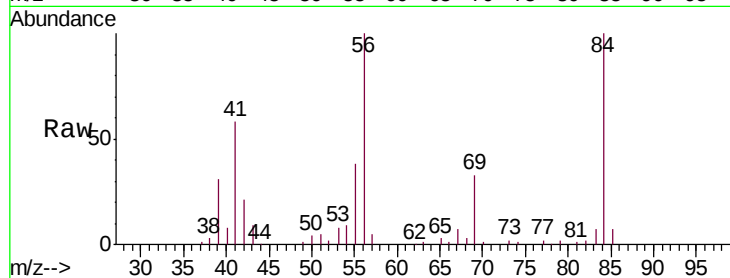
Tgt Ion: 56 Resp: 41543

Ion Ratio Lower Upper

56 100

69 33.6 26.2 39.4

84 96.0 74.3 111.5

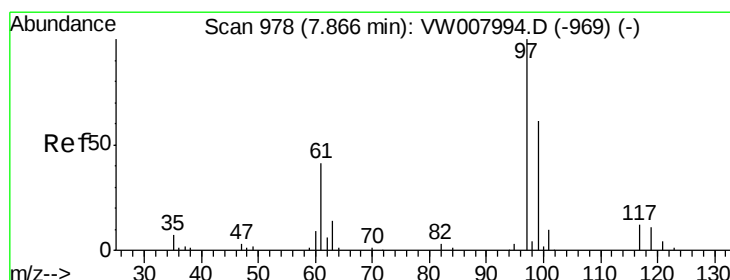
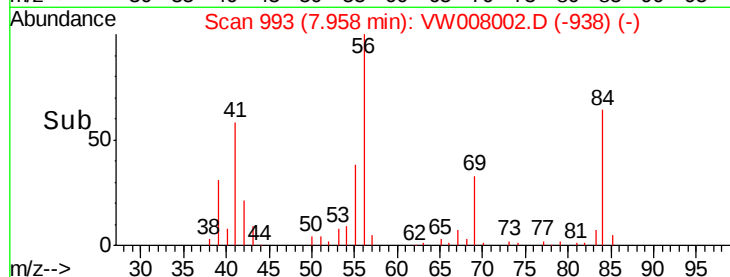
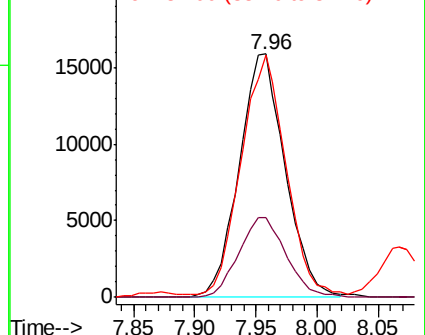


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 26.416 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

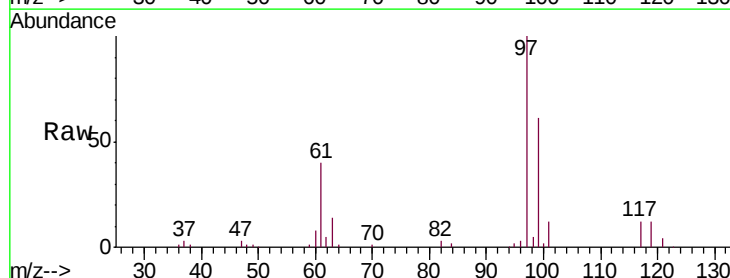
Tgt Ion: 97 Resp: 49669

Ion Ratio Lower Upper

97 100

99 62.8 52.3 78.5

61 41.5 33.5 50.3

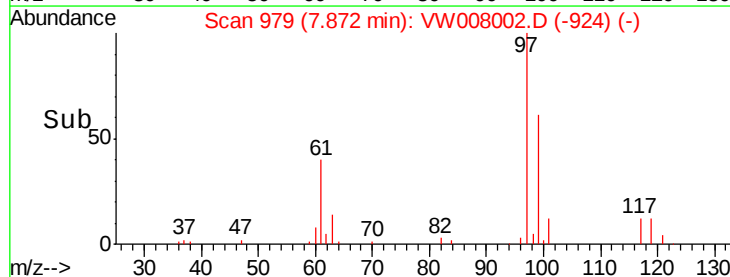
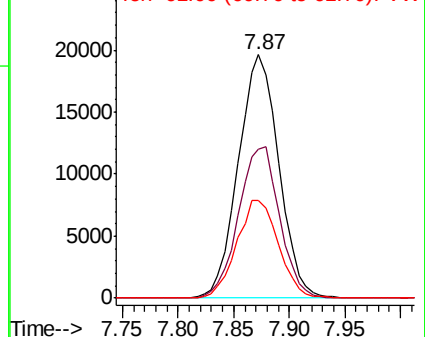


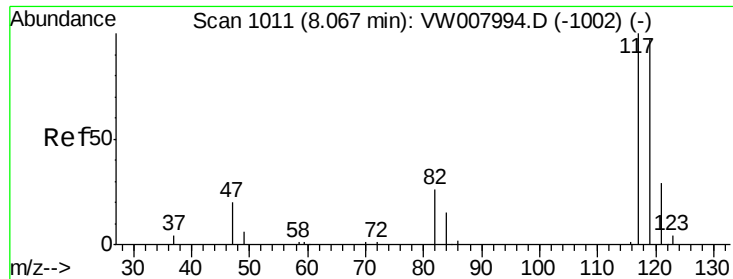
Abundance

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: 26.639 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

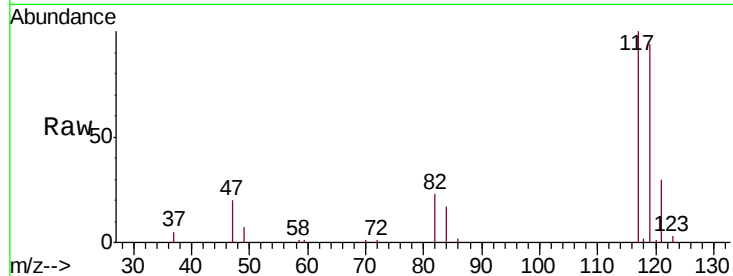
VSTD02595

Tgt Ion:117 Resp: 48088

Ion Ratio Lower Upper

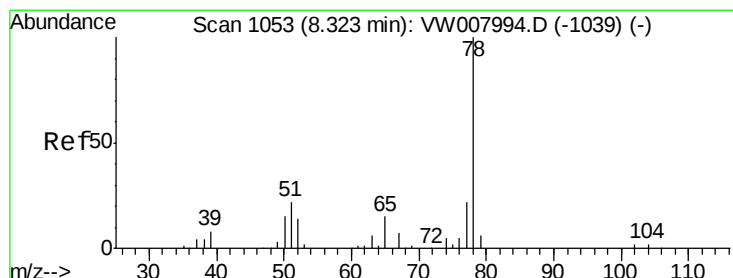
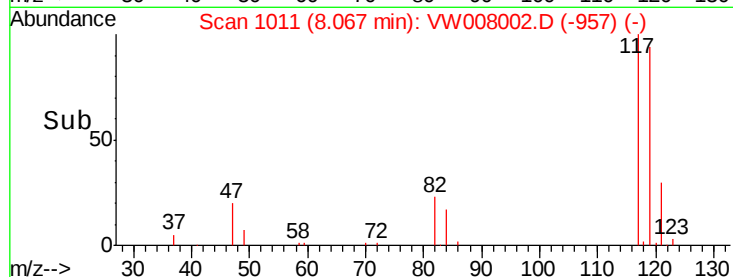
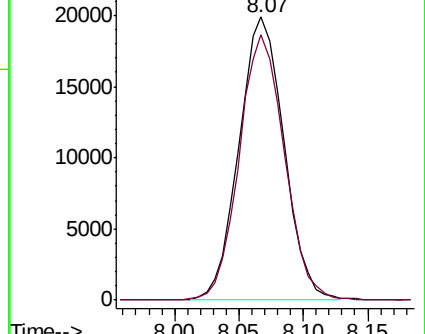
117 100

119 94.4 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.701 ug/L

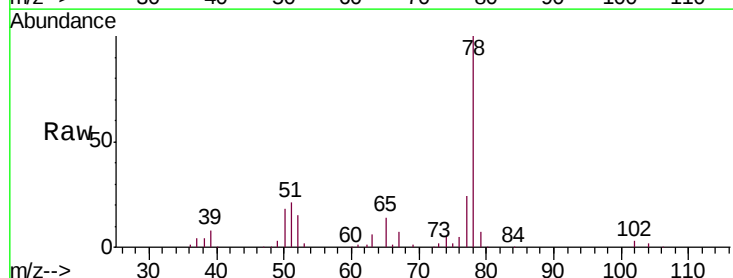
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

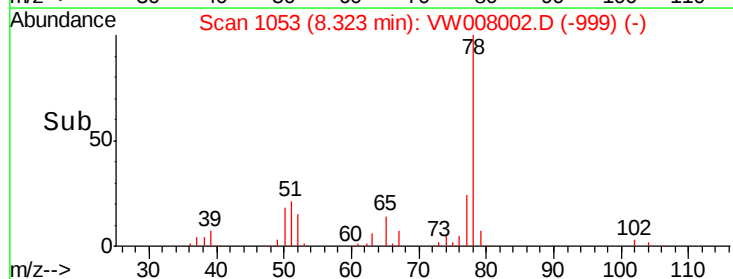
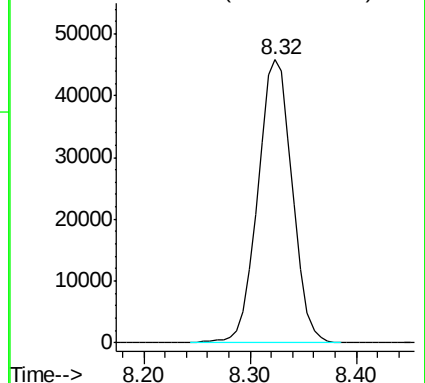
Lab File: VW008002.D

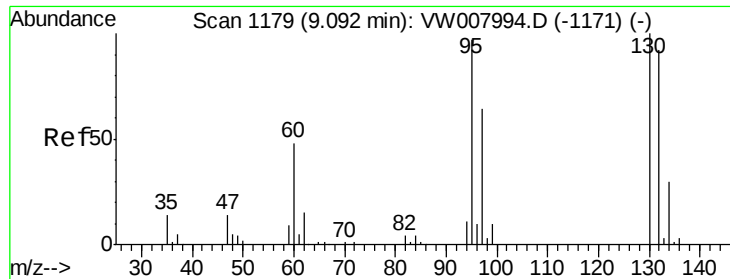
Acq: 28 Dec 2018 13:30

Tgt Ion: 78 Resp: 103659



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.681 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02595

Tgt Ion: 95 Resp: 30093

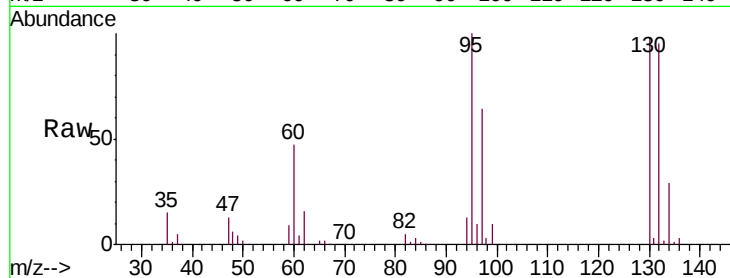
Ion Ratio Lower Upper

95 100

97 65.7 44.4 82.5

132 99.3 67.8 126.0

130 103.8 70.3 130.7

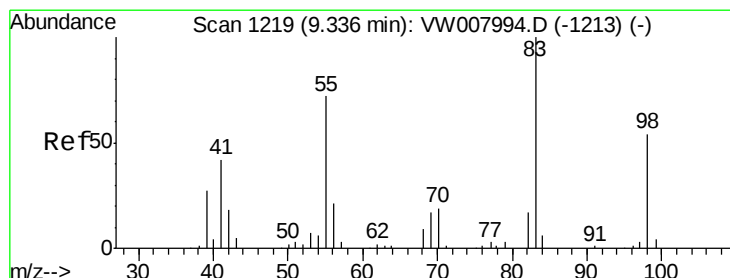
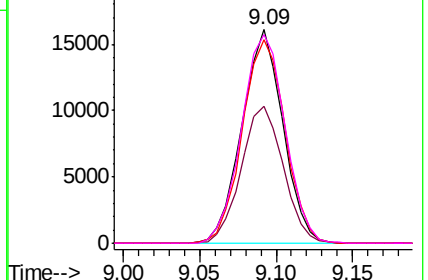
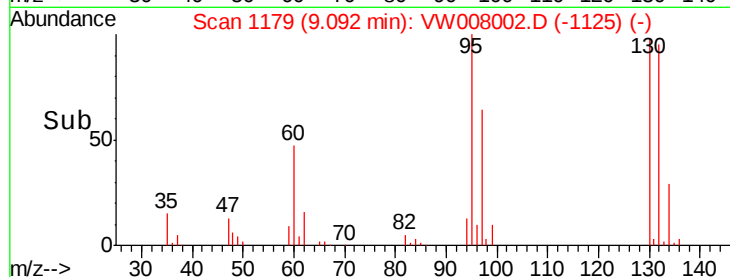


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 24.891 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

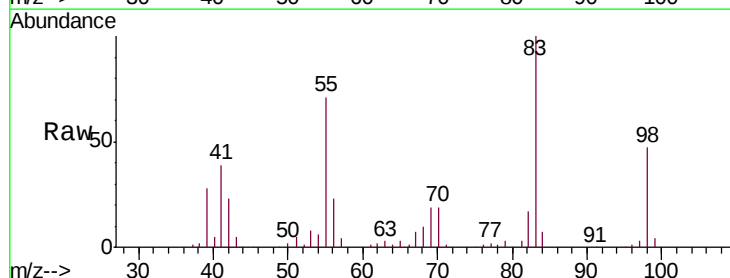
Tgt Ion: 83 Resp: 52044

Ion Ratio Lower Upper

83 100

55 71.4 59.4 89.0

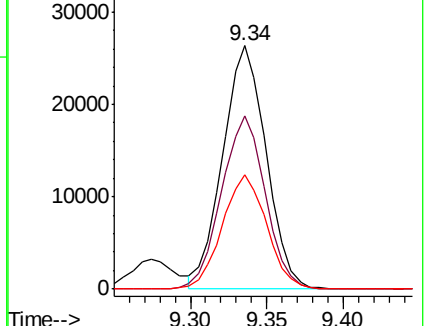
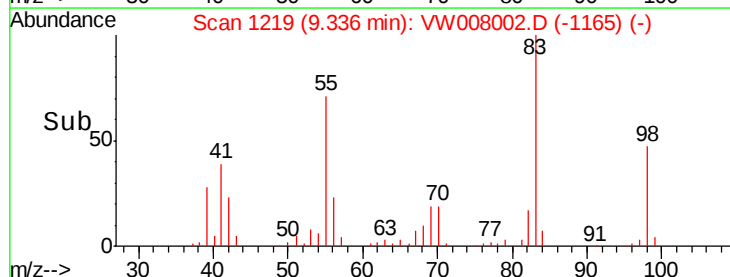
98 47.8 38.2 57.2

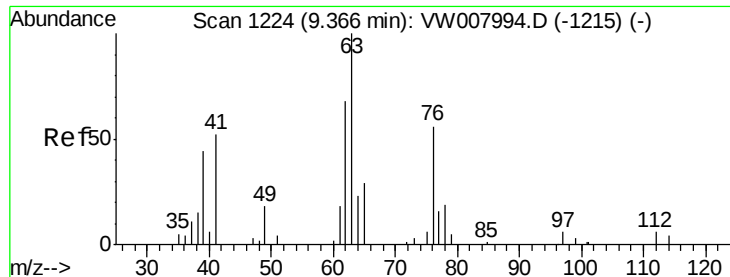


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

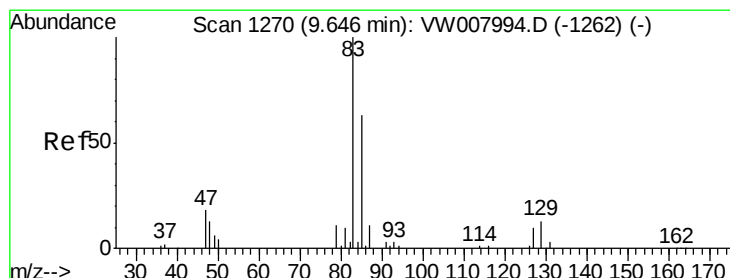
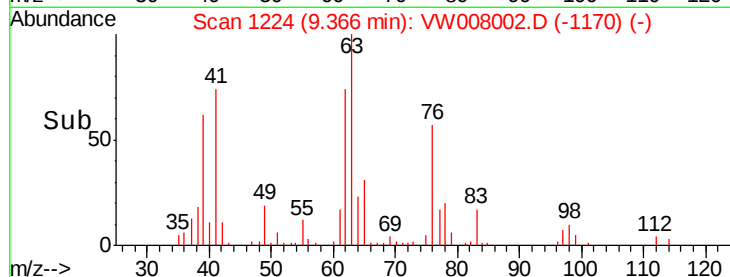
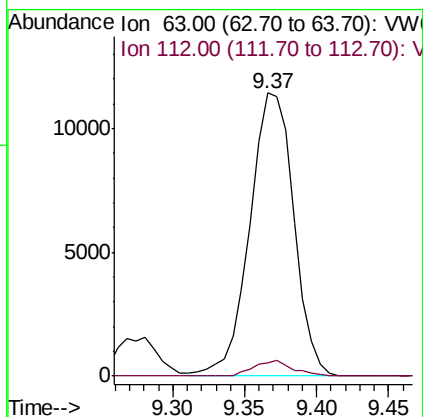
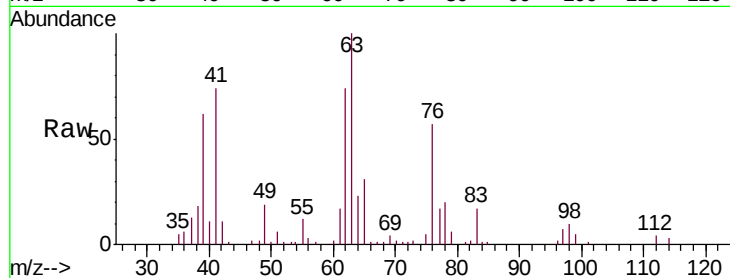




#40
 1,2-Dichloropropane
 Concen: 24.574 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

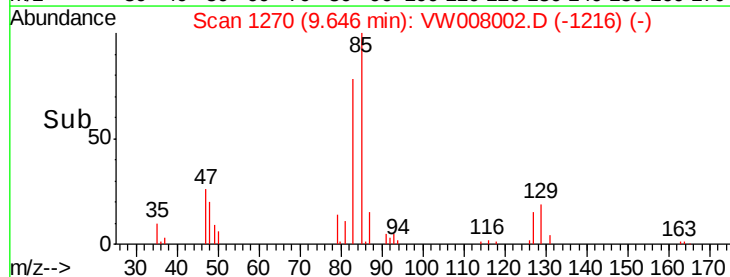
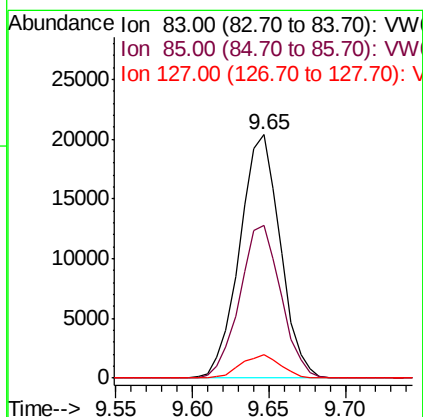
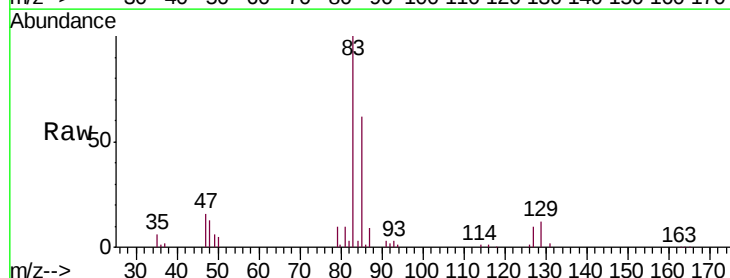
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02595

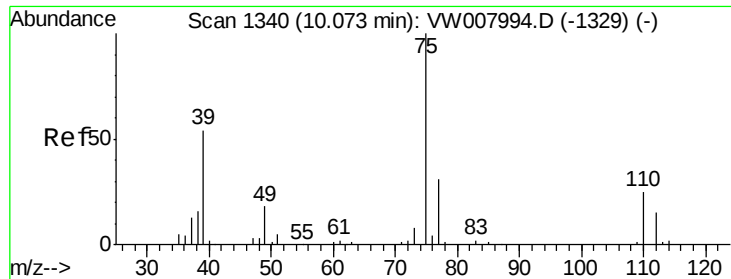
Tgt Ion: 63 Resp: 24242
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.7 5.5



#41
 Bromodichloromethane
 Concen: 25.936 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Tgt Ion: 83 Resp: 37628
 Ion Ratio Lower Upper
 83 100
 85 62.5 44.4 82.5
 127 9.6 7.0 10.6

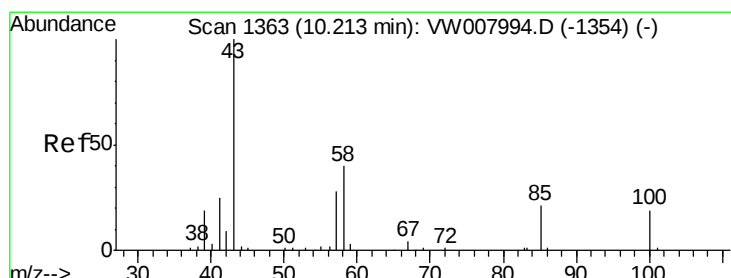
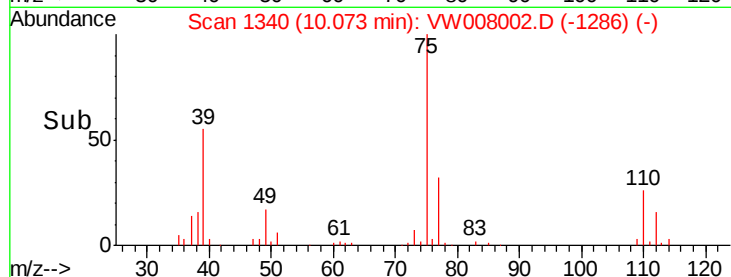
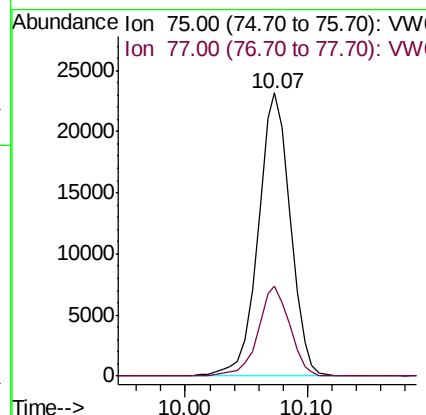
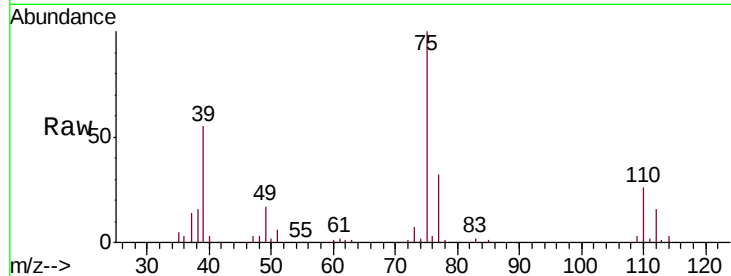




#42
 cis-1,3-Dichloropropene
 Concen: 24.626 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

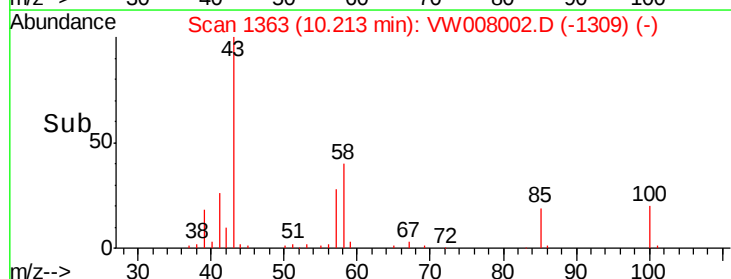
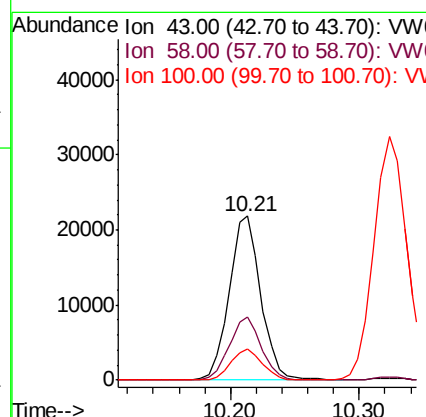
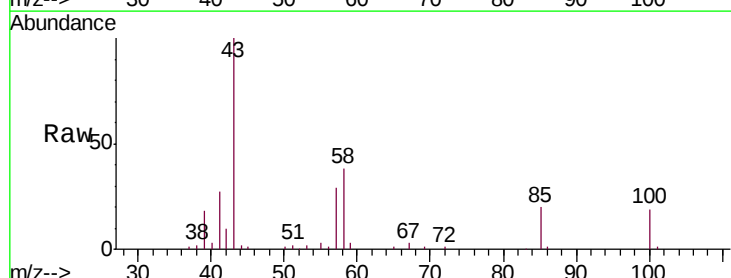
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02595

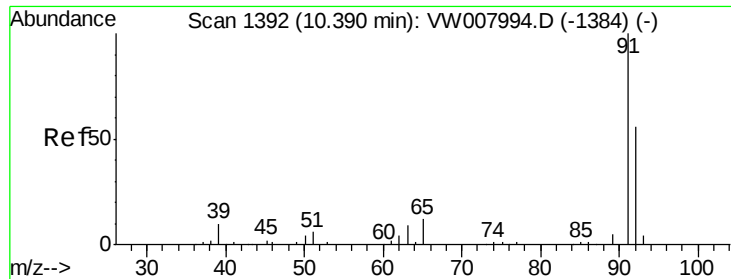
Tgt Ion: 75 Resp: 42406
 Ion Ratio Lower Upper
 75 100
 77 31.6 23.0 42.8



#43
 4-Methyl-2-pentanone
 Concen: 47.977 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Tgt Ion: 43 Resp: 37459
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.1 46.7
 100 18.8 14.0 21.0





#44

Toluene

Concen: 24.938 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

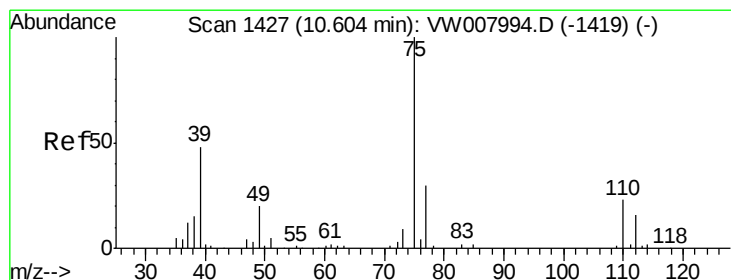
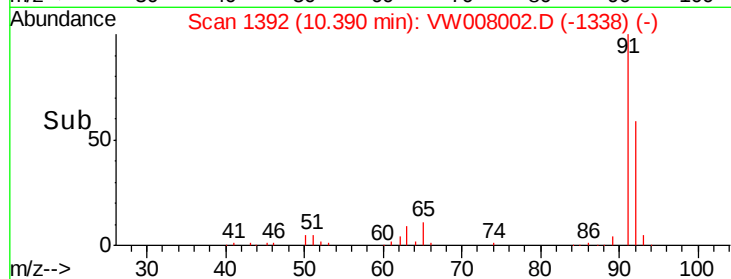
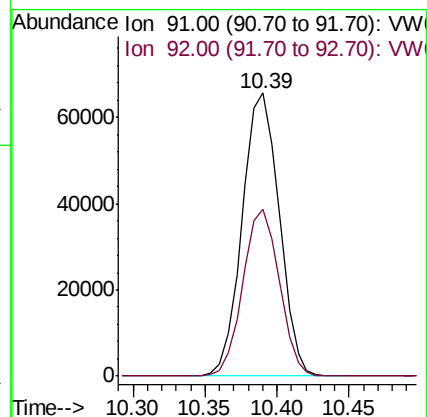
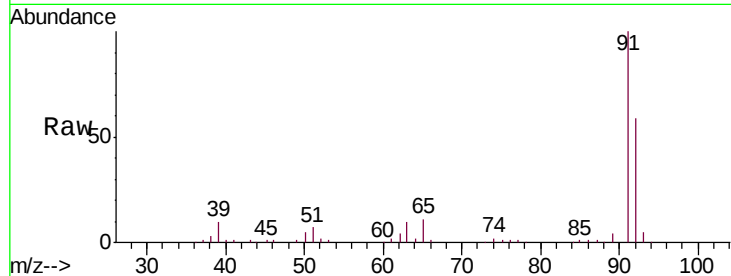
VSTD02595

Tgt Ion: 91 Resp: 117090

Ion Ratio Lower Upper

91 100

92 59.1 39.6 73.6



#45

trans-1,3-Dichloropropene

Concen: 24.902 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW008002.D

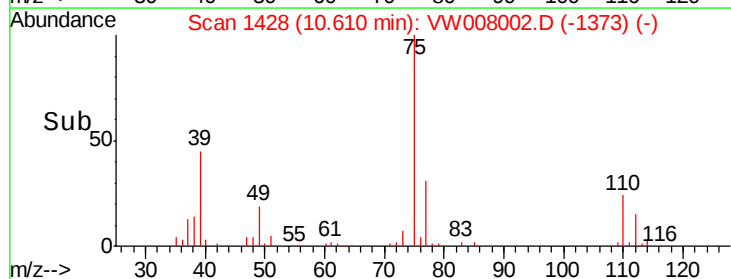
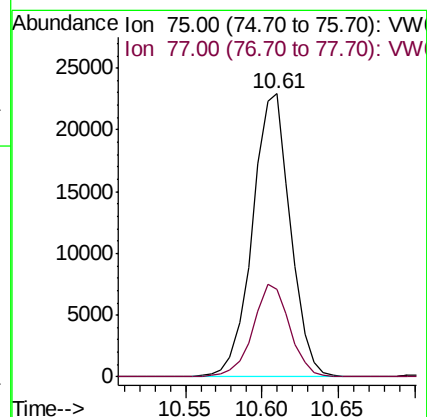
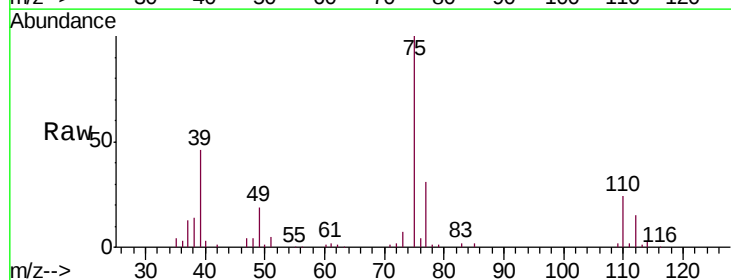
Acq: 28 Dec 2018 13:30

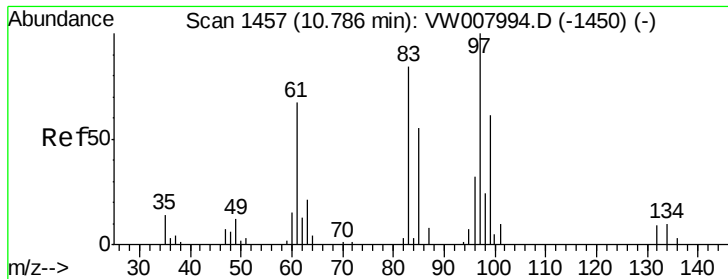
Tgt Ion: 75 Resp: 39512

Ion Ratio Lower Upper

75 100

77 30.7 21.1 39.3





#46

1,1,2-Trichloroethane

Concen: 25.379 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02595

Tgt Ion: 97 Resp: 21181

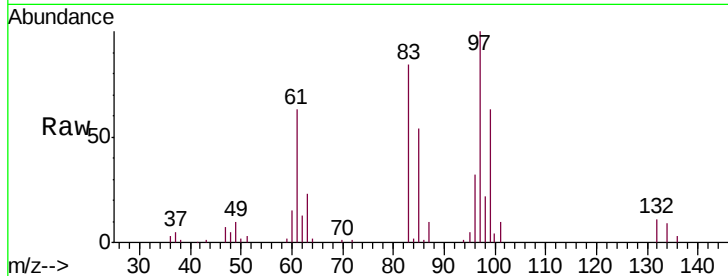
Ion Ratio Lower Upper

97 100

83 84.0 58.4 108.6

85 54.4 36.4 67.6

99 63.3 43.8 81.3



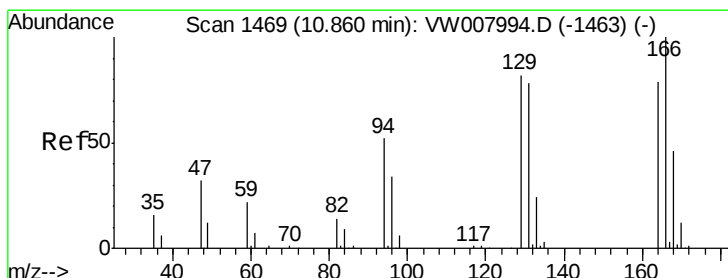
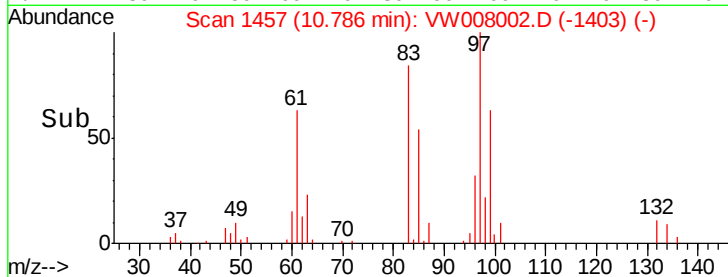
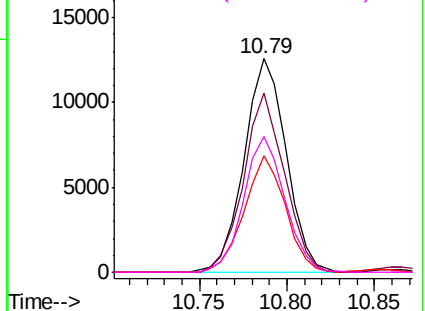
Abundance

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: 25.701 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Tgt Ion: 164 Resp: 24898

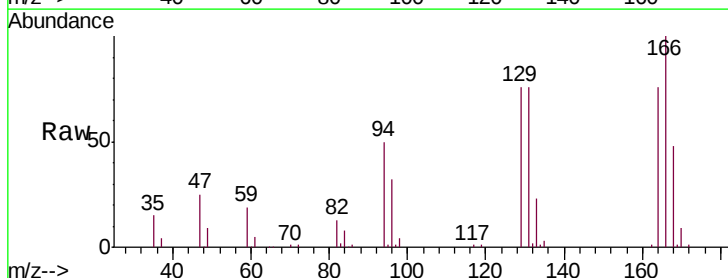
Ion Ratio Lower Upper

164 100

129 100.3 70.6 131.2

131 100.1 66.5 123.5

166 131.5 87.7 162.9



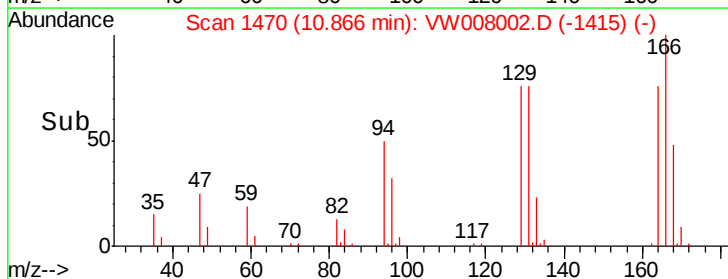
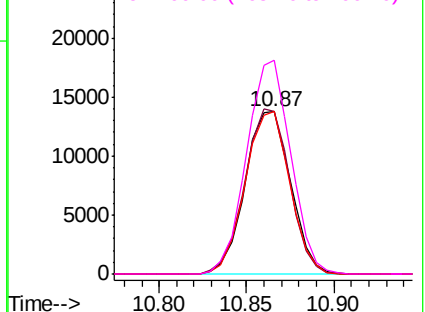
Abundance

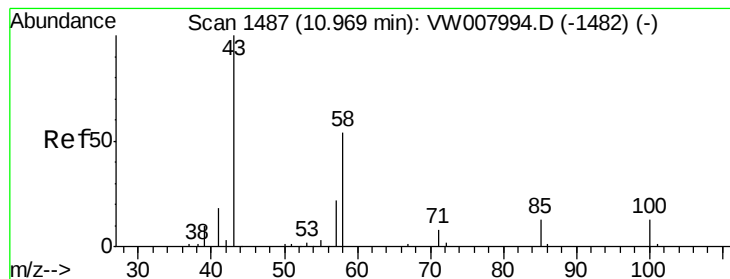
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 52.776 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02595

Tgt Ion: 43 Resp: 29729

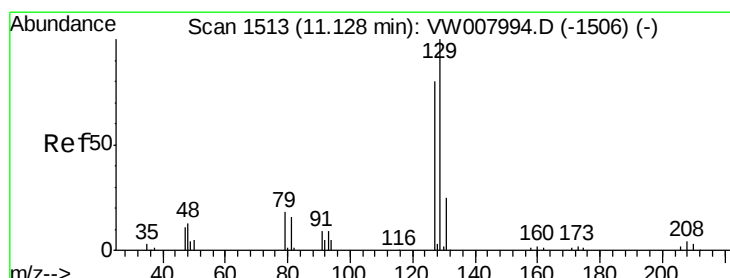
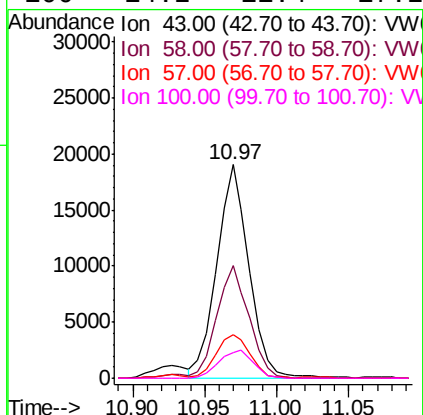
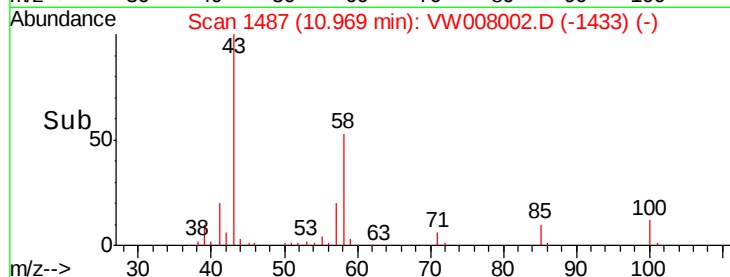
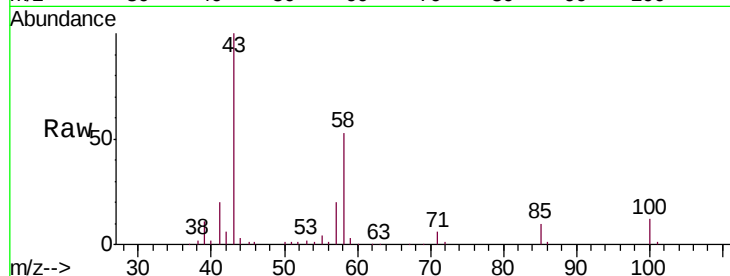
Ion Ratio Lower Upper

43 100

58 52.2 46.2 69.4

57 21.5 17.9 26.9

100 14.2 11.4 17.2



#50

Dibromochloromethane

Concen: 26.624 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW008002.D

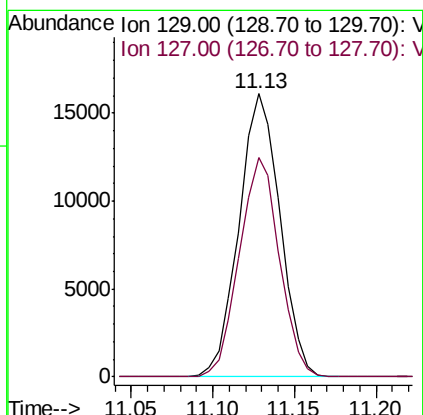
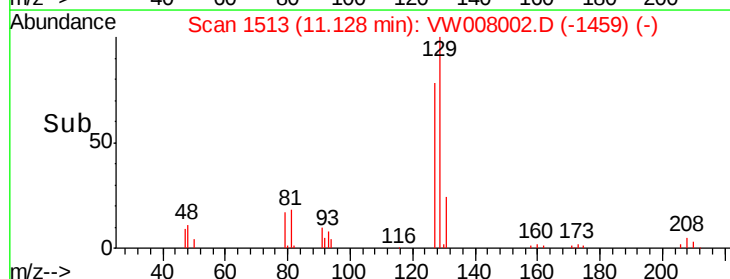
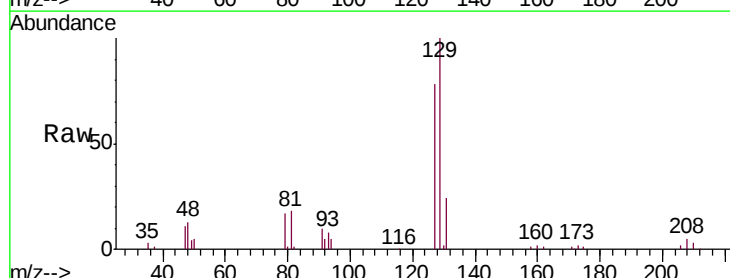
Acq: 28 Dec 2018 13:30

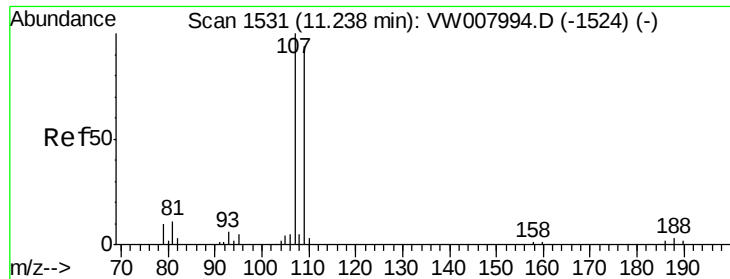
Tgt Ion: 129 Resp: 28309

Ion Ratio Lower Upper

129 100

127 77.5 55.8 103.6

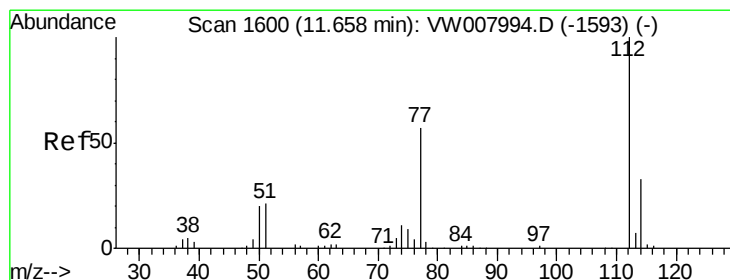
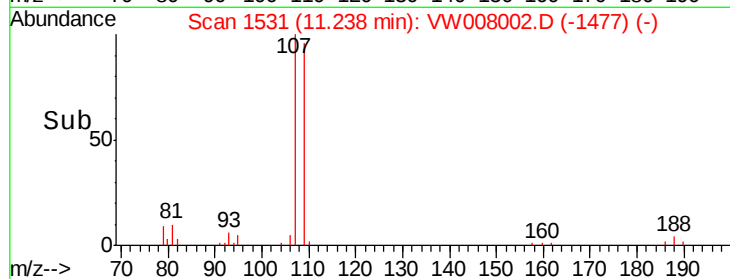
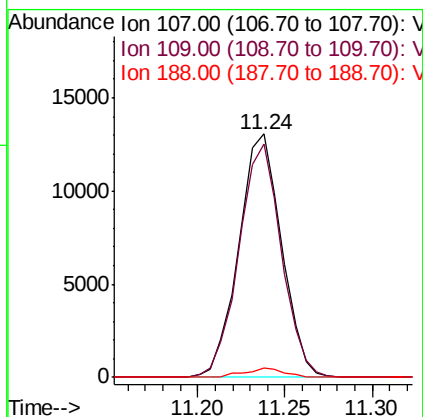
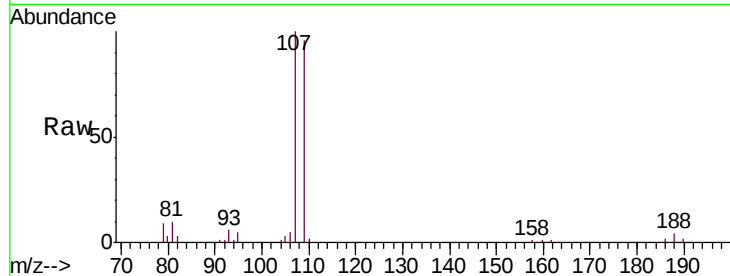




#51
1,2-Dibromoethane
Concen: 26.040 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. -0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

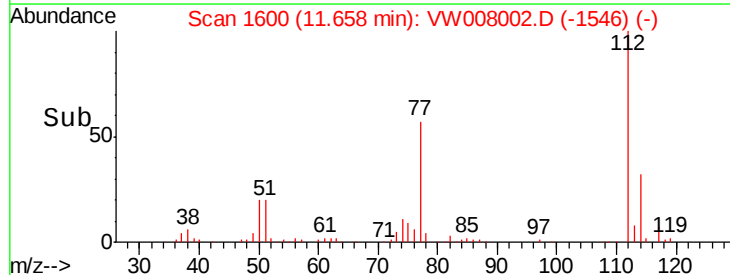
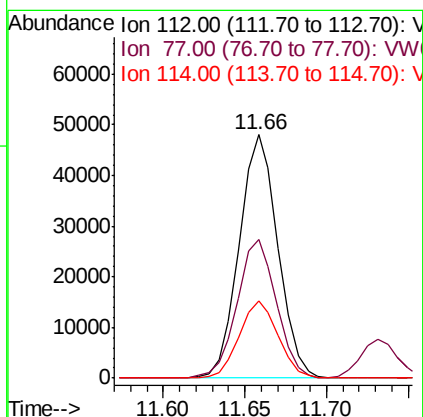
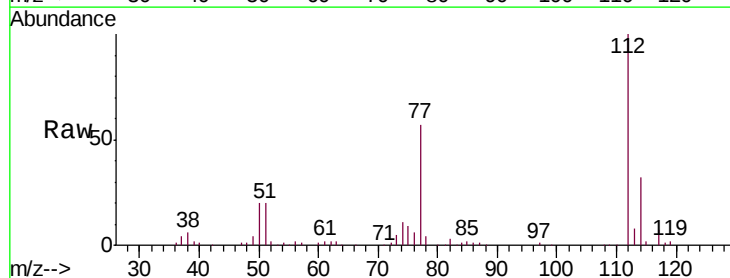
Instrument :
MSVOA_W
ClientSampleId :
VSTD02595

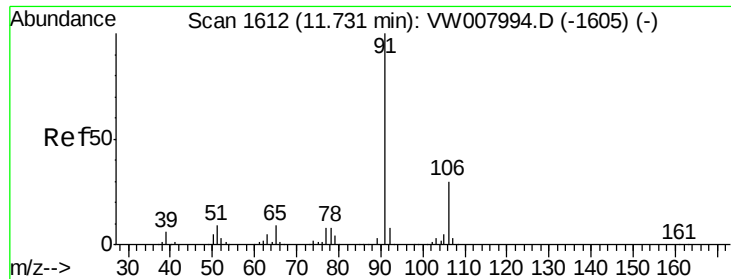
Tgt Ion:107 Resp: 22181
Ion Ratio Lower Upper
107 100
109 95.9 63.2 117.4
188 3.6 3.1 4.7



#52
Chlorobenzene
Concen: 25.837 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

Tgt Ion:112 Resp: 78969
Ion Ratio Lower Upper
112 100
77 56.9 47.8 71.6
114 31.9 22.2 41.2

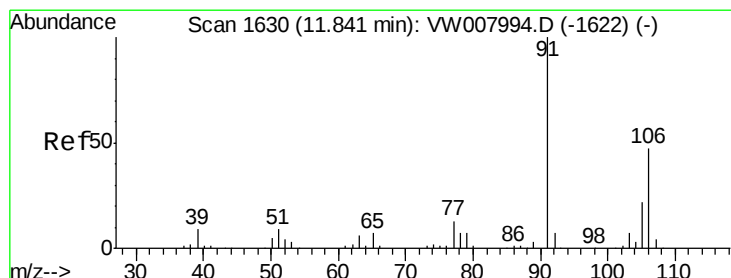
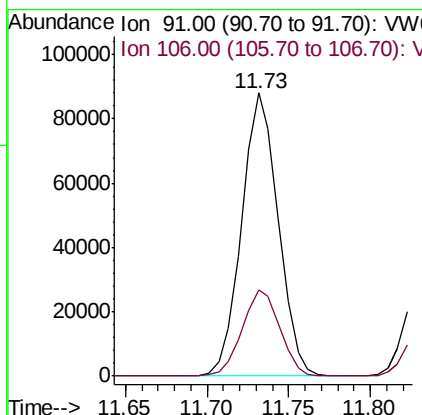
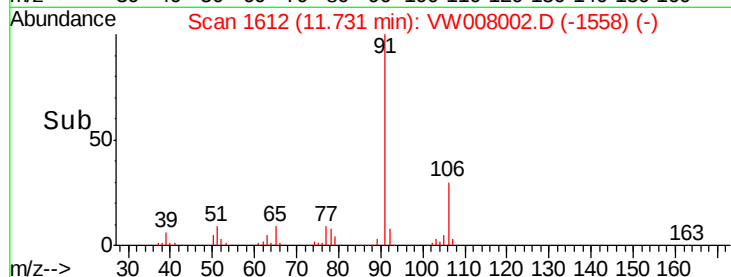
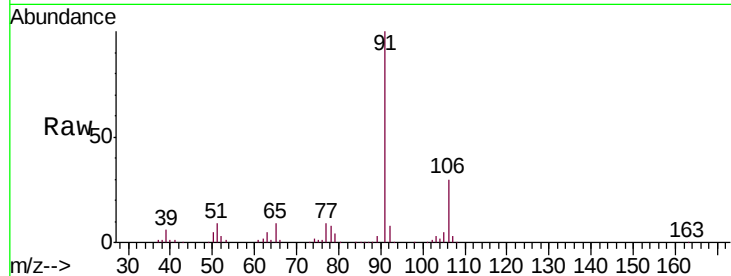




#53
Ethylbenzene
Concen: 25.505 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

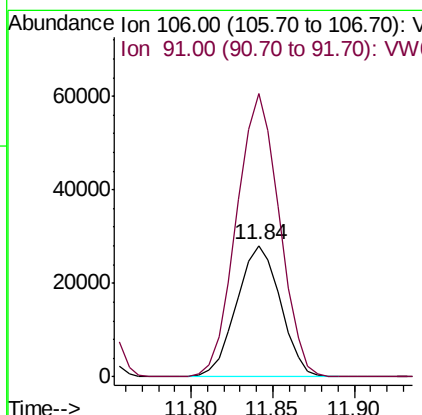
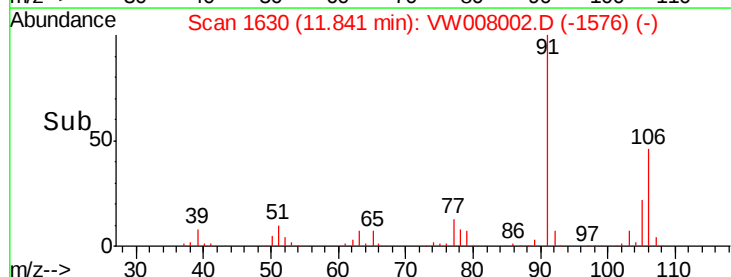
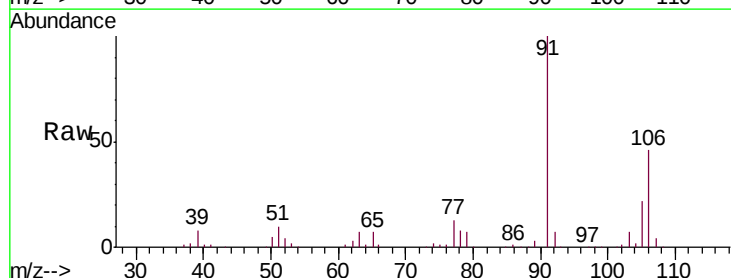
Instrument :
MSVOA_W
ClientSampleId :
VSTD02595

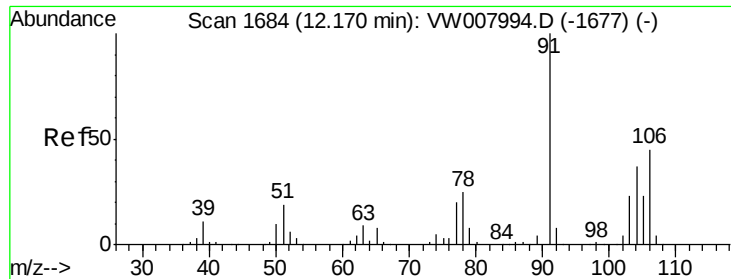
Tgt Ion: 91 Resp: 137590
Ion Ratio Lower Upper
91 100
106 30.4 21.5 39.9



#54
m,p-Xylene
Concen: 25.786 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

Tgt Ion: 106 Resp: 52409
Ion Ratio Lower Upper
106 100
91 215.6 147.8 274.4

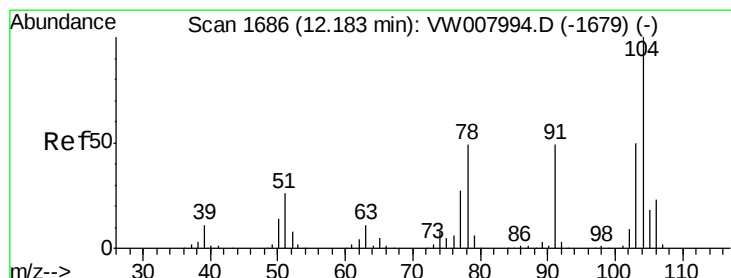
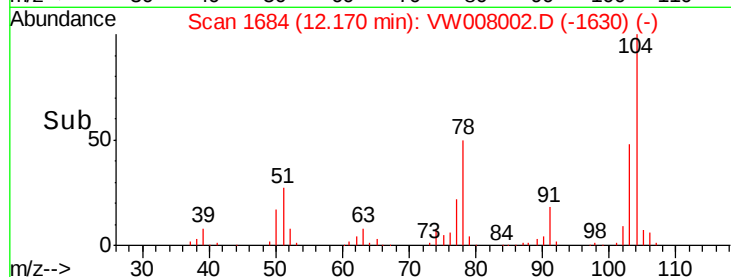
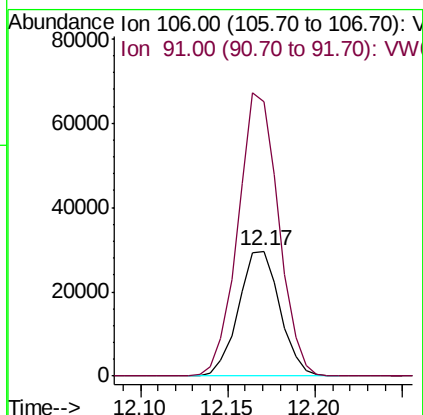
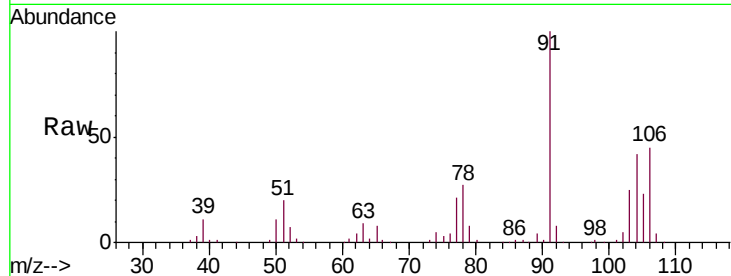




#55
o-xylene
Concen: 25.252 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

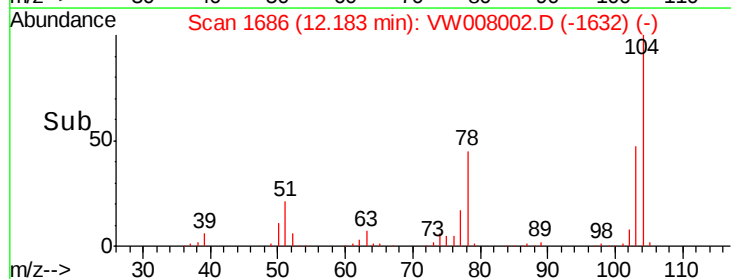
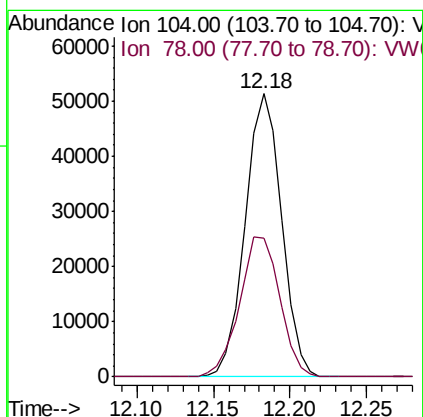
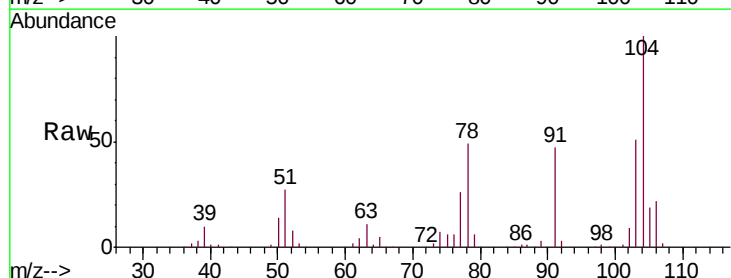
Instrument :
MSVOA_W
ClientSampleId :
VSTD02595

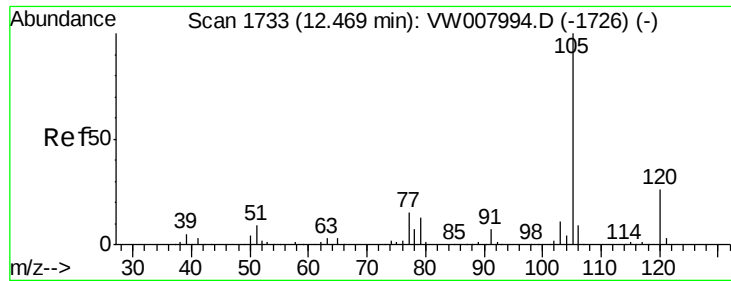
Tgt Ion:106 Resp: 48674
Ion Ratio Lower Upper
106 100
91 220.6 156.0 289.6



#56
Styrene
Concen: 26.074 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW008002.D
Acq: 28 Dec 2018 13:30

Tgt Ion:104 Resp: 85187
Ion Ratio Lower Upper
104 100
78 49.2 34.6 64.3





#57

Isopropylbenzene

Concen: 26.003 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02595

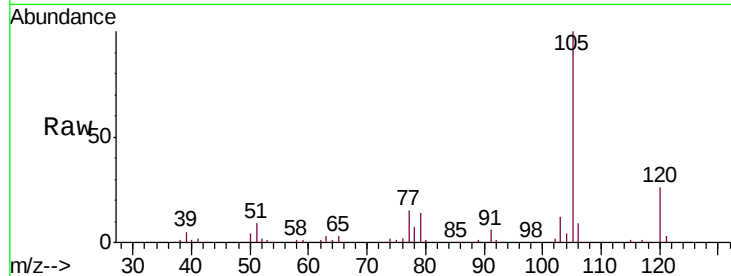
Tgt Ion: 105 Resp: 141983

Ion Ratio Lower Upper

105 100

120 25.8 21.1 31.7

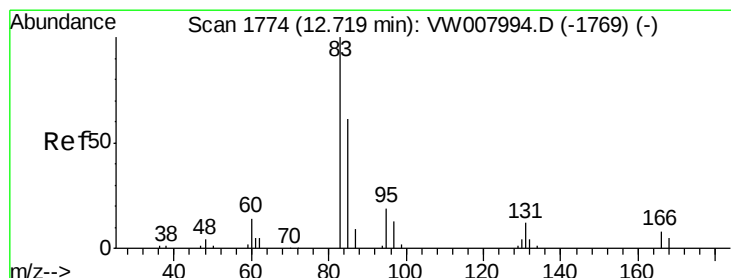
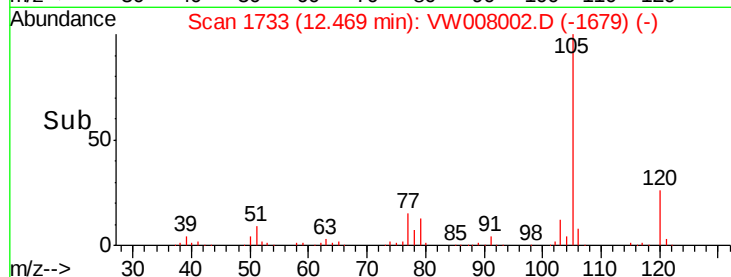
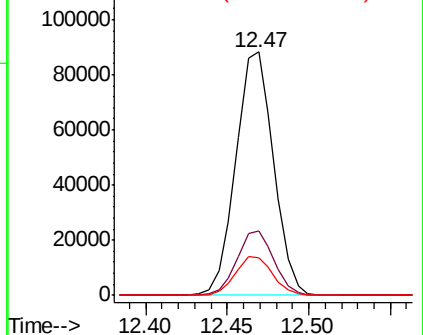
77 15.8 12.4 18.6



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: 25.030 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

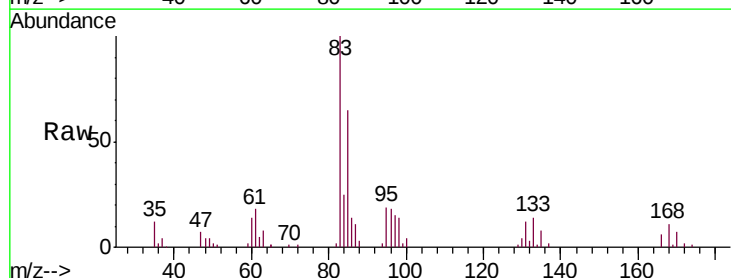
Tgt Ion: 83 Resp: 25901

Ion Ratio Lower Upper

83 100

85 64.9 46.6 86.6

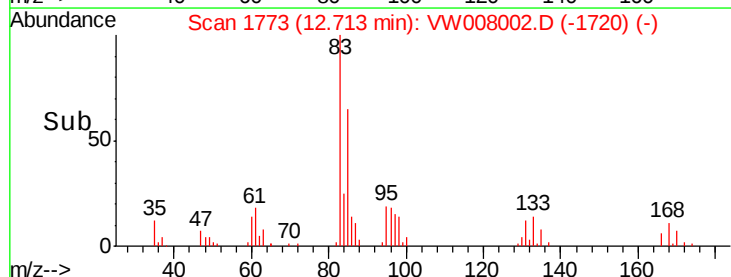
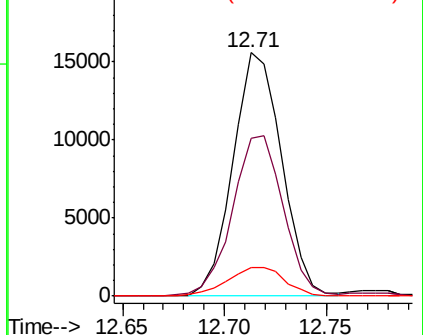
131 11.6 9.7 14.5

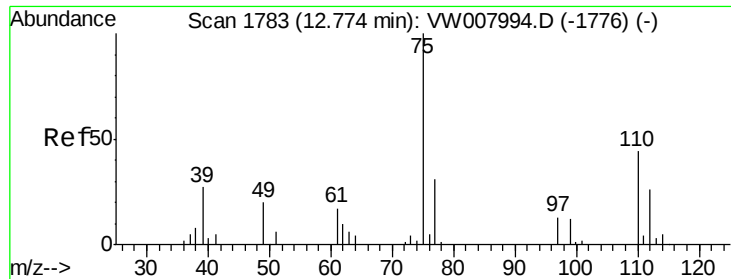


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

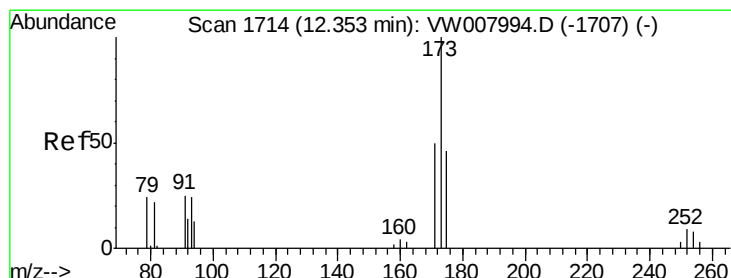
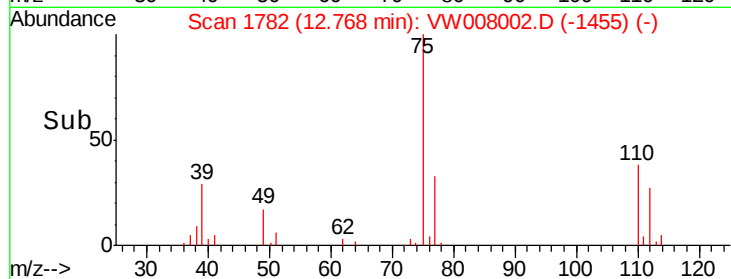
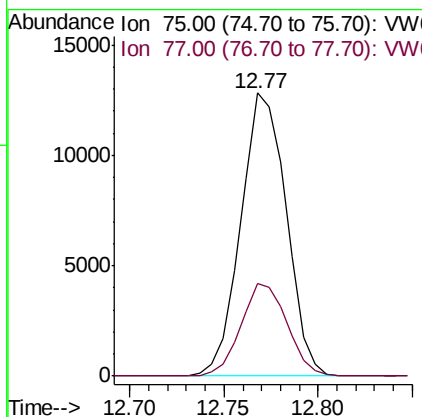
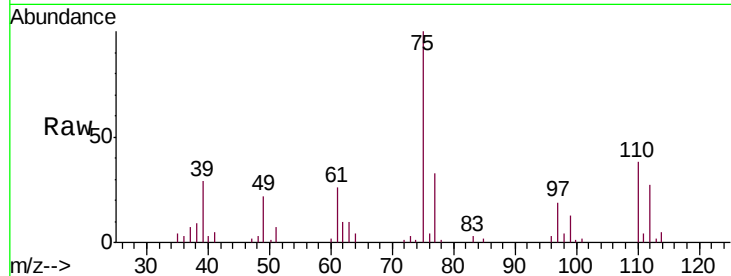




#59
 1,2,3-Trichloropropane
 Concen: 25.785 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.01 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

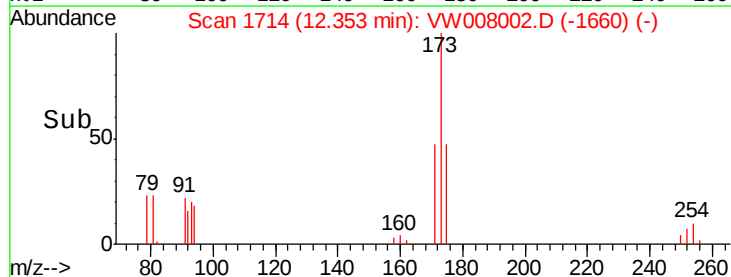
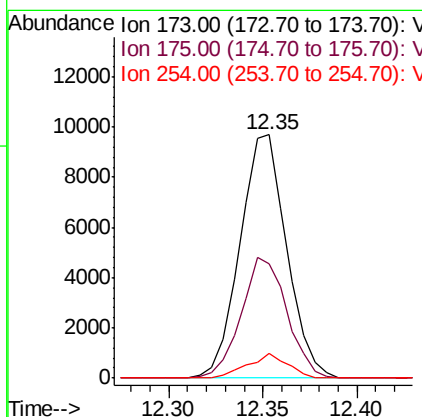
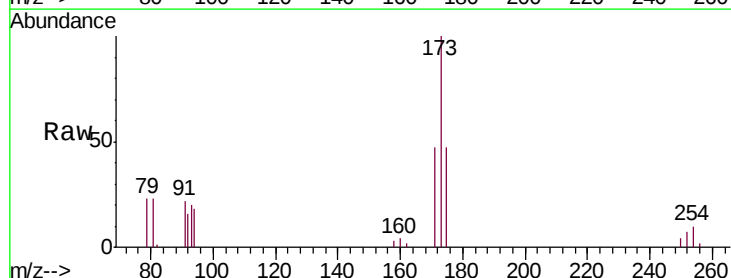
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02595

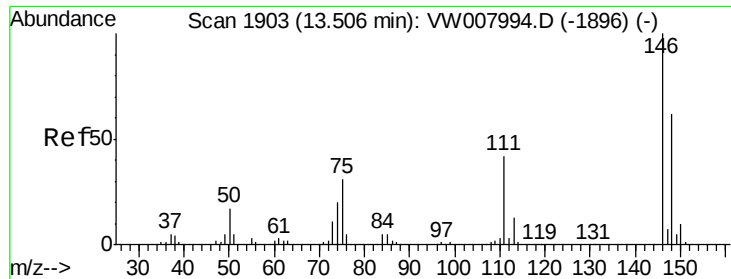
Tgt Ion: 75 Resp: 21462
 Ion Ratio Lower Upper
 75 100
 77 33.1 25.5 38.3



#62
 Bromoform
 Concen: 26.925 ug/L
 RT: 12.35 min Scan# 1714
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Tgt Ion: 173 Resp: 16618
 Ion Ratio Lower Upper
 173 100
 175 48.6 39.0 58.4
 254 8.6 5.8 8.8

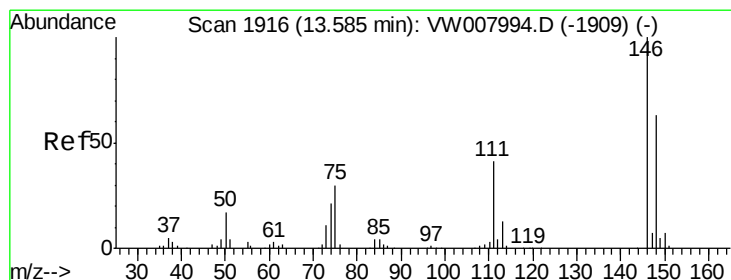
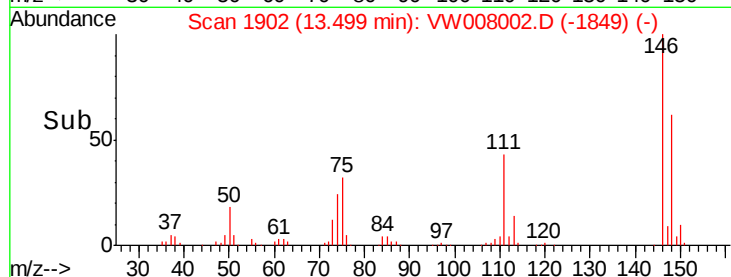
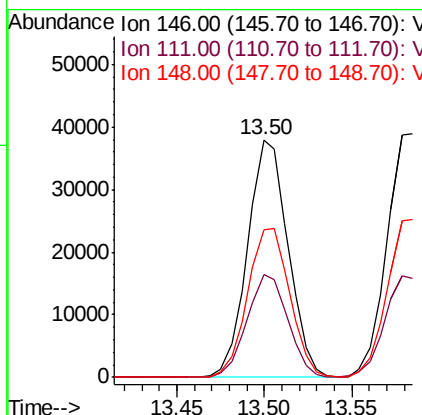
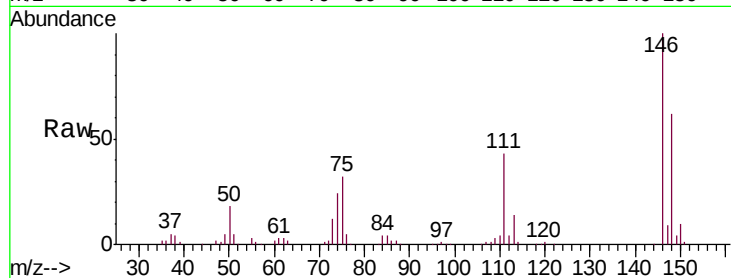




#63
 1,3-Dichlorobenzene
 Concen: 24.372 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.01 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

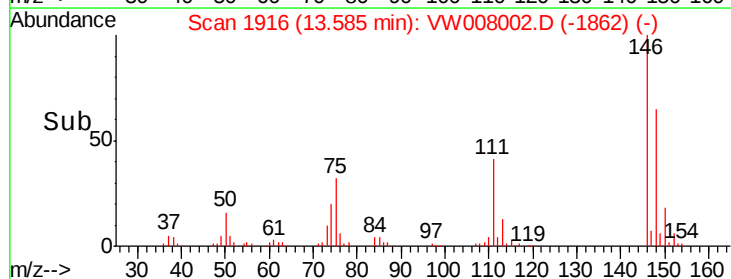
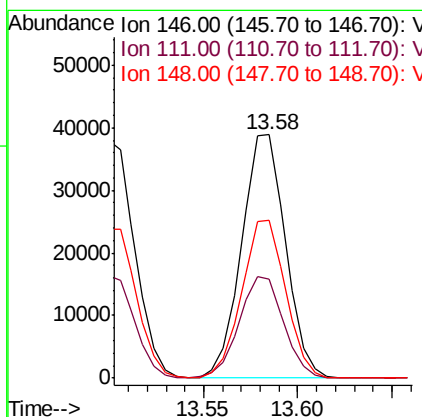
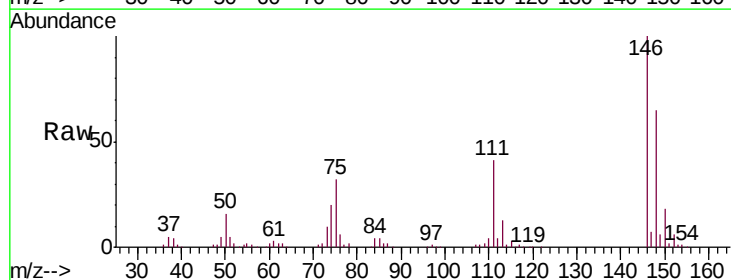
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02595

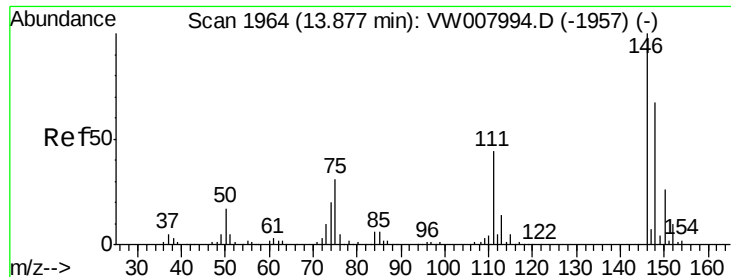
Tgt Ion:146 Resp: 61000
 Ion Ratio Lower Upper
 146 100
 111 43.3 31.0 57.6
 148 62.3 43.6 81.0



#64
 1,4-Dichlorobenzene
 Concen: 25.317 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Tgt Ion:146 Resp: 63013
 Ion Ratio Lower Upper
 146 100
 111 40.7 26.9 49.9
 148 64.7 41.6 77.3





#65

1,2-Dichlorobenzene

Concen: 25.417 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.01 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02595

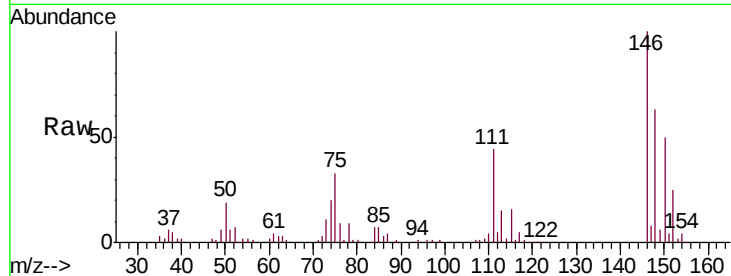
Tgt Ion:146 Resp: 57750

Ion Ratio Lower Upper

146 100

111 44.1 36.4 54.6

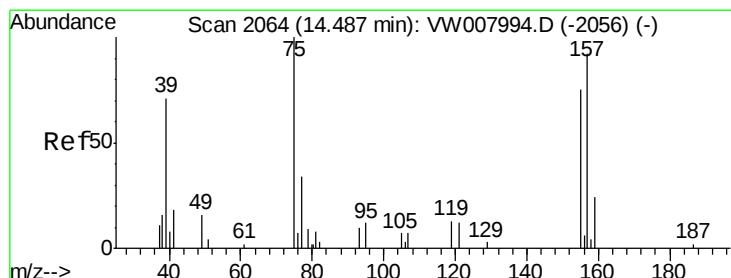
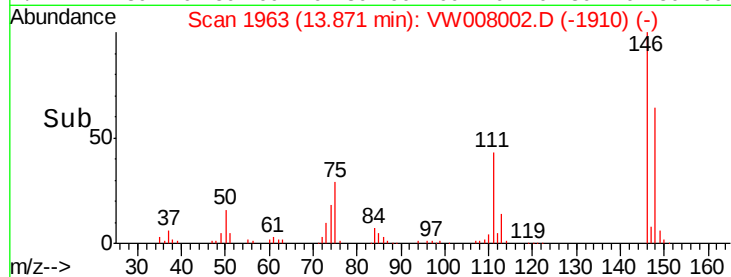
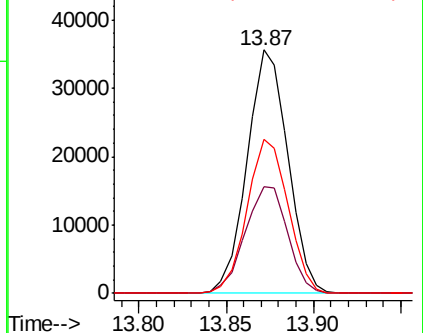
148 63.3 51.0 76.4



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: 27.342 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

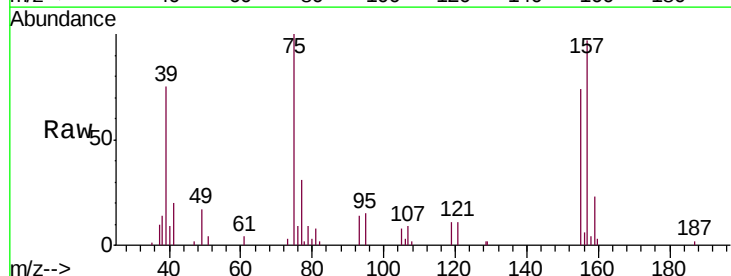
Tgt Ion: 75 Resp: 6125

Ion Ratio Lower Upper

75 100

157 96.6 85.6 128.4

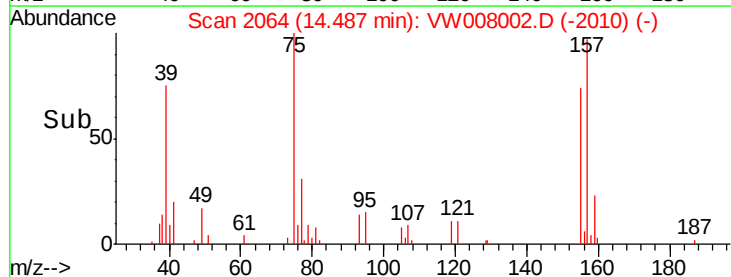
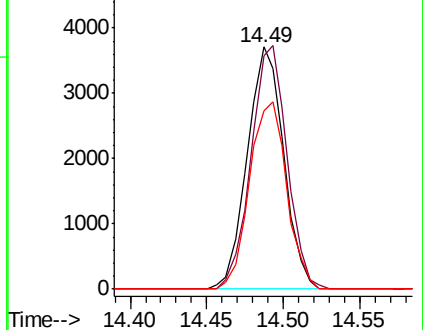
155 73.6 63.4 95.0

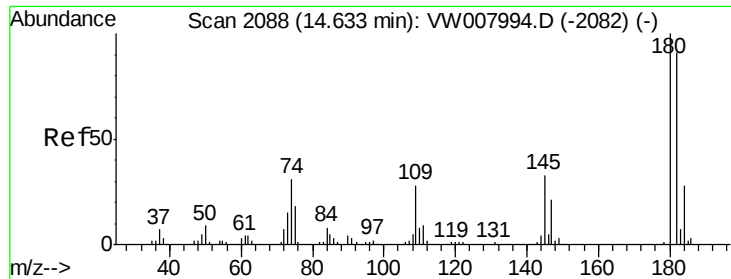


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

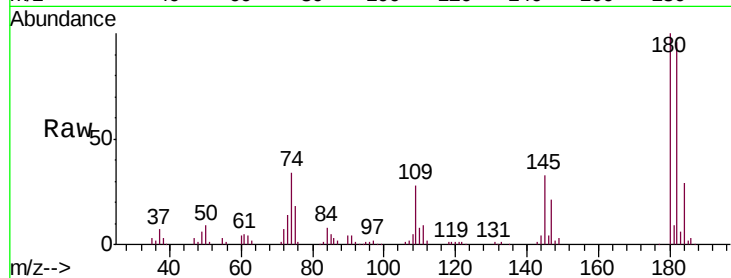




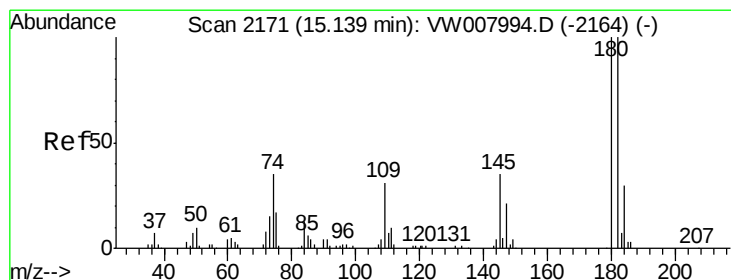
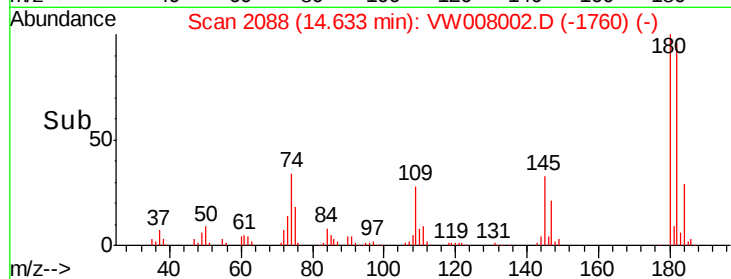
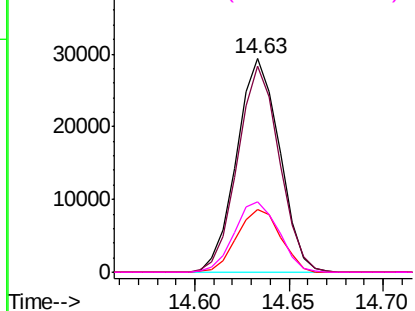
#67
 1,3,5-Trichlorobenzene
 Concen: 25.344 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02595

Tgt Ion:180 Resp: 46460
 Ion Ratio Lower Upper
 180 100
 182 93.7 75.0 112.4
 184 30.2 23.5 35.3
 145 34.1 26.6 39.8

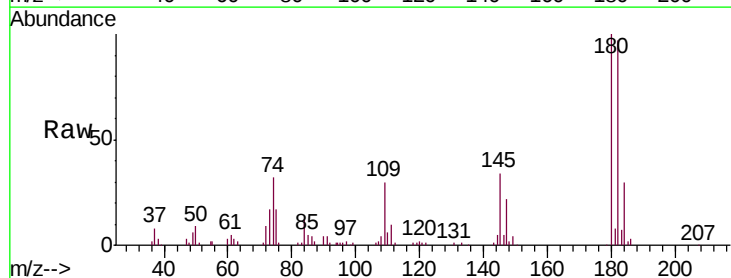


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

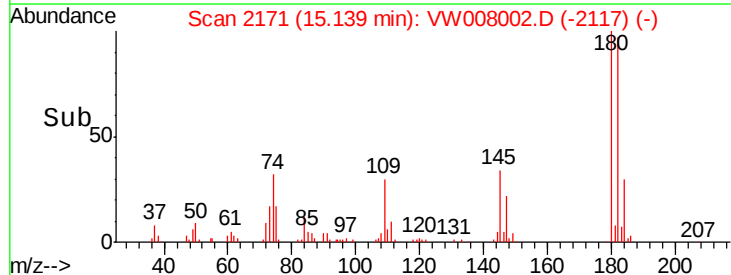
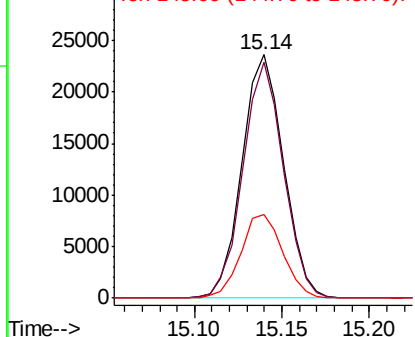


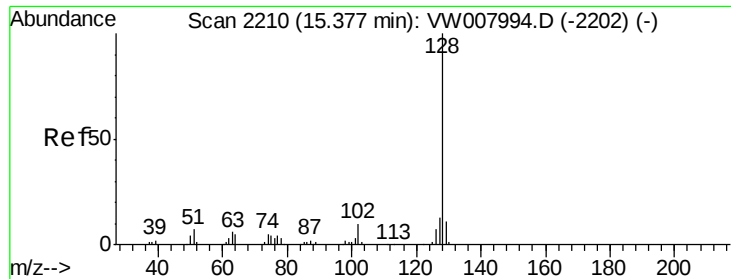
#68
 1,2,4-trichlorobenzene
 Concen: 24.796 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW008002.D
 Acq: 28 Dec 2018 13:30

Tgt Ion:180 Resp: 39019
 Ion Ratio Lower Upper
 180 100
 182 94.3 77.0 115.6
 145 34.7 27.9 41.9



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





#69

Naphthalene

Concen: 26.158 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02595

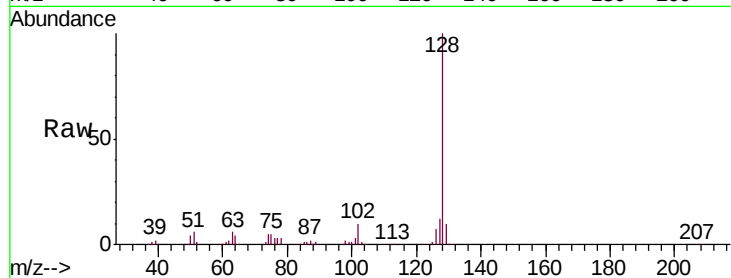
Tgt Ion:128 Resp: 93175

Ion Ratio Lower Upper

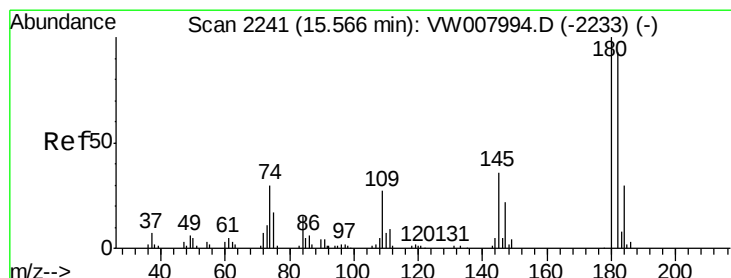
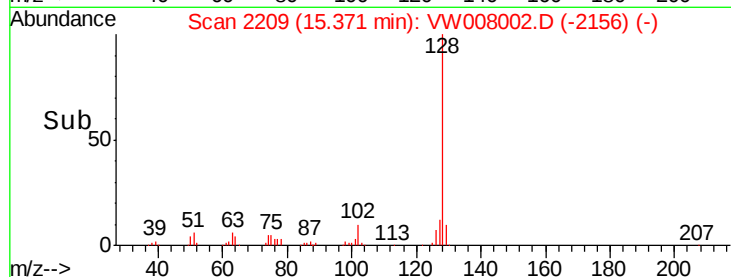
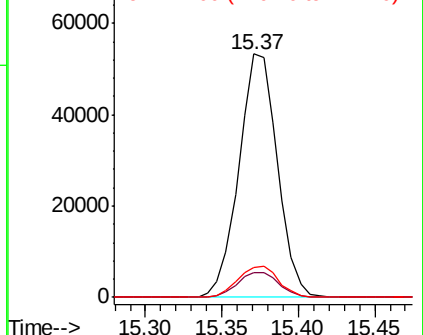
128 100

129 11.1 8.8 13.2

127 13.4 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.471 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VW008002.D

Acq: 28 Dec 2018 13:30

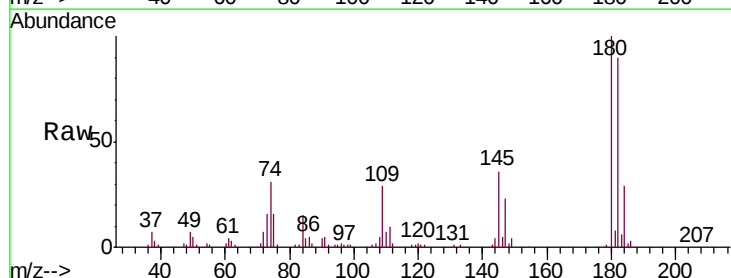
Tgt Ion:180 Resp: 35482

Ion Ratio Lower Upper

180 100

182 95.0 75.8 113.6

145 38.3 29.4 44.2



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

