

Data File : VW009193.D
Acq On : 15 Mar 2019 01:47
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

Quant Time: Mar 15 06:59:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 15 06:53:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	420977	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	411994	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	209057	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	128344	25.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.04%
7) Chloroethane-d5	2.89	69	129226	21.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.80%
10) 1,1-Dichloroethene-d2	4.02	63	263787	24.26	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	97.04%
20) 2-Butanone-d5	7.08	46	90751	43.62	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.24%
24) Chloroform-d	7.64	84	290088	25.25	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.00%
26) 1,2-Dichloroethane-d4	8.31	65	172392	24.91	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.64%
29) Benzene-d6	8.27	84	551775	24.28	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.12%
33) 1,2-Dichloropropane-d6	9.27	67	167886	24.60	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.40%
37) Toluene-d8	10.32	98	513324	24.43	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.72%
38) trans-1,3-Dichloropropene-	10.58	79	78650	22.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.80%
39) 2-Hexanone-d5	10.93	63	72651	43.96	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.92%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	159416	23.72	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.88%
61) 1,2-Dichlorobenzene-d4	13.86	152	200935	25.07	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.28%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	112278	20.246 ug/L	# 83
3) Chloromethane	2.21	50	141107	23.982 ug/L	98
5) Vinyl chloride	2.37	62	158853	26.230 ug/L	100
6) Bromomethane	2.78	94	127216	25.073 ug/L	98
8) Chloroethane	2.93	64	118227	23.596 ug/L	92
9) Trichlorofluoromethane	3.26	101	93344	19.513 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	131187	23.746 ug/L	97
12) 1,1-Dichloroethene	4.04	96	129260	24.935 ug/L	90
13) Acetone	4.14	43	61656	36.138 ug/L	97
14) Carbon disulfide	4.39	76	379999	27.237 ug/L	99
16) Methylene chloride	4.92	84	143143	23.317 ug/L	100
17) Methyl tert-butyl Ether	5.42	73	175110	23.873 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	136777	25.095 ug/L	97
19) 1,1-Dichloroethane	6.21	63	251910	25.349 ug/L	98
21) 2-Butanone	7.17	43	100694	42.744 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	149696	25.354 ug/L	98
23) Bromochloromethane	7.51	128	72610	25.641 ug/L	97

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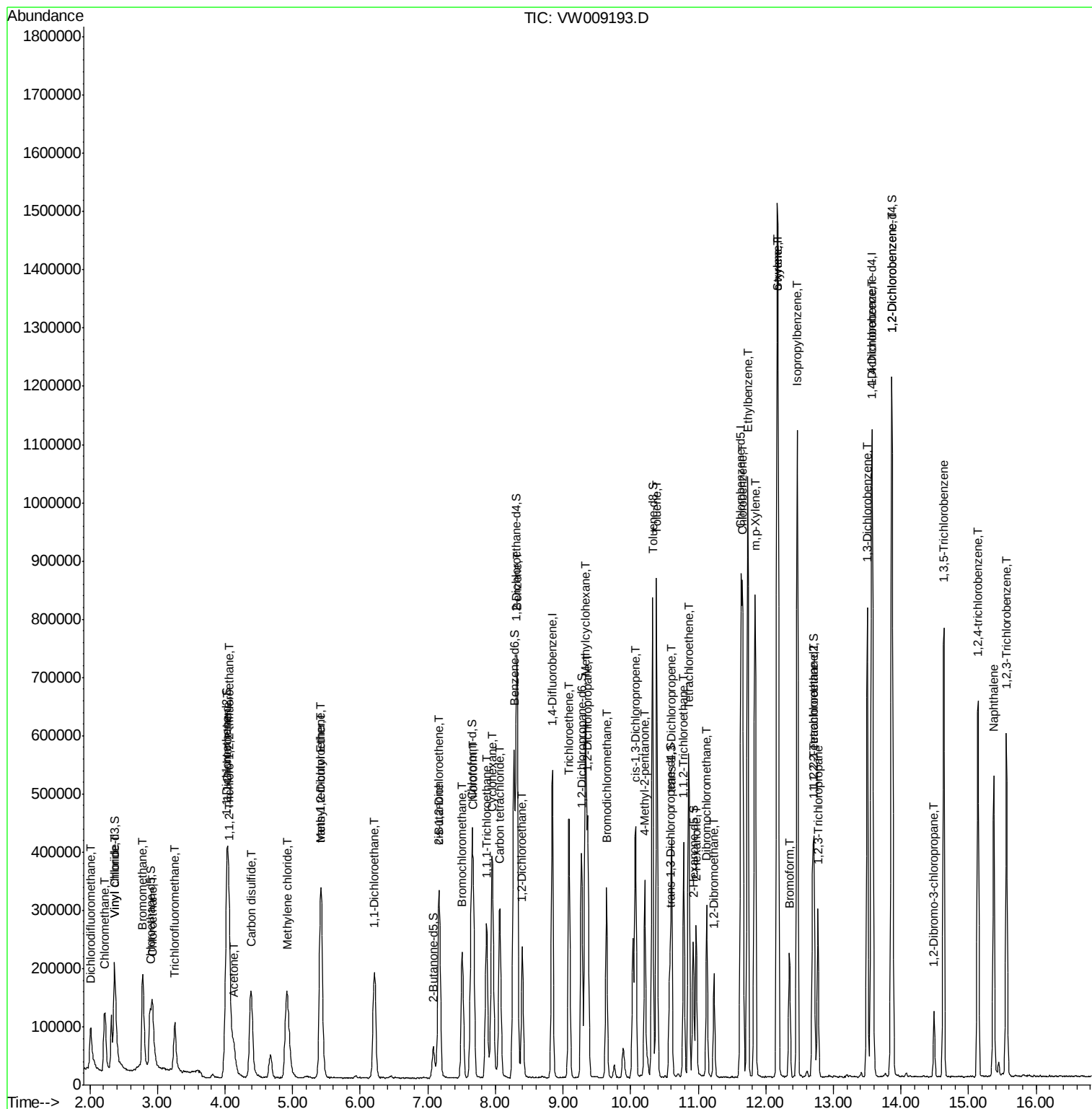
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	265969	25.556	ug/L	99
27) 1,2-Dichloroethane	8.40	62	200754	25.872	ug/L	99
30) Cyclohexane	7.96	56	212492	22.710	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	198465	24.119	ug/L	98
32) Carbon tetrachloride	8.06	117	200959	24.206	ug/L	97
34) Benzene	8.32	78	571425	25.340	ug/L	100
35) Trichloroethene	9.09	95	144045	23.972	ug/L	99
36) Methylcyclohexane	9.33	83	236203	22.721	ug/L	98
40) 1,2-Dichloropropane	9.37	63	144083	24.899	ug/L	99
41) Bromodichloromethane	9.64	83	204338	25.486	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	227838	24.174	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	226954	43.283	ug/L	99
44) Toluene	10.38	91	605232	24.548	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	195521	23.848	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	114423	24.786	ug/L	97
47) Tetrachloroethene	10.86	164	120888	23.810	ug/L	98
49) 2-Hexanone	10.97	43	157700	42.702	ug/L	99
50) Dibromochloromethane	11.13	129	142230	24.958	ug/L	95
51) 1,2-Dibromoethane	11.23	107	114029	24.365	ug/L	95
52) Chlorobenzene	11.66	112	392283	24.807	ug/L	98
53) Ethylbenzene	11.73	91	678893	24.491	ug/L	98
54) m,p-Xylene	11.84	106	258451	24.542	ug/L	99
55) o-xylene	12.16	106	253375	24.662	ug/L	100
56) Styrene	12.18	104	441692	25.197	ug/L	98
57) Isopropylbenzene	12.46	105	667203	24.243	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	148893	23.907	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	107070	23.166	ug/L	100
62) Bromoform	12.35	173	87678	24.822	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	304879	24.470	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	324659	25.203	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	303913	25.577	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	25154	21.600	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	229732	23.639	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	197026	24.136	ug/L	99
69) Naphthalene	15.37	128	415420	24.546	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	188950	24.713	ug/L	100

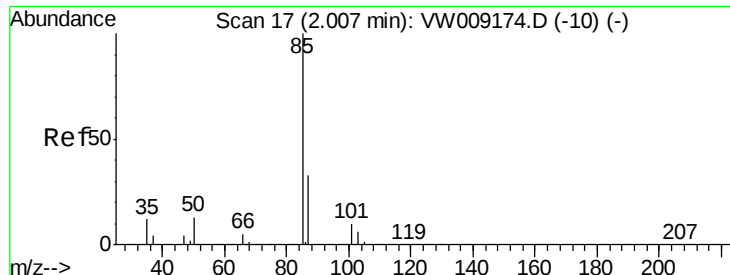
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 20.246 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

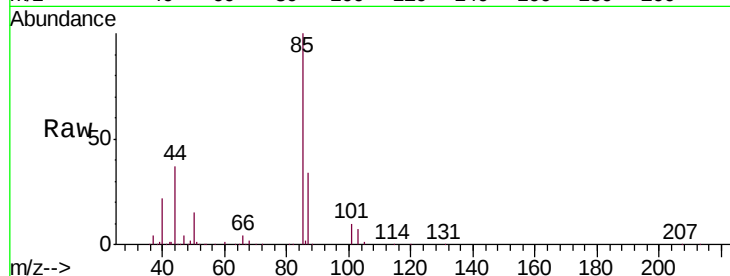
VSTD02508

Tgt Ion: 85 Resp: 112278

Ion Ratio Lower Upper

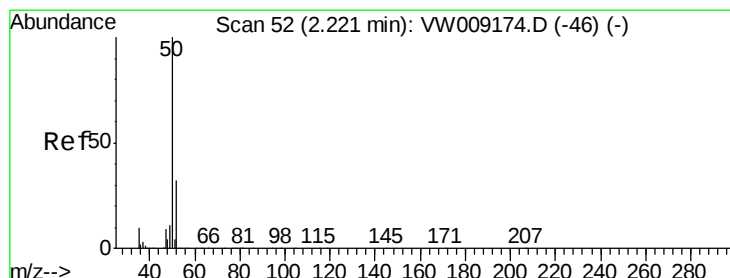
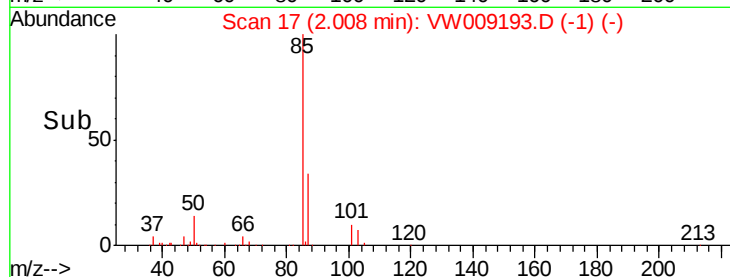
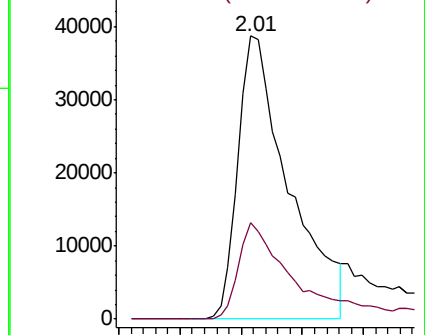
85 100

87 36.8 19.5 36.3#



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 23.982 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW009193.D

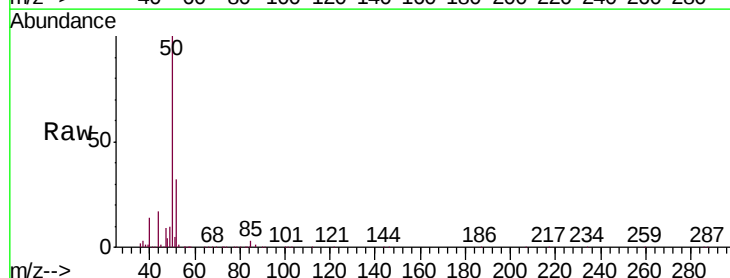
Acq: 15 Mar 2019 01:47

Tgt Ion: 50 Resp: 141107

Ion Ratio Lower Upper

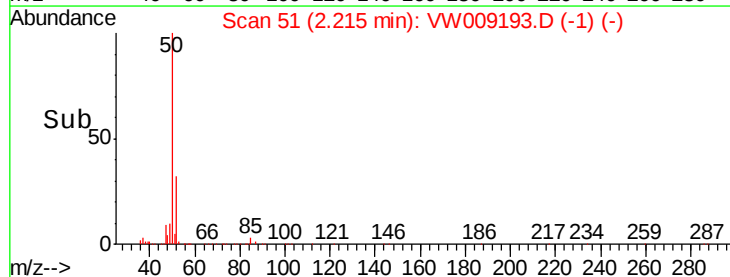
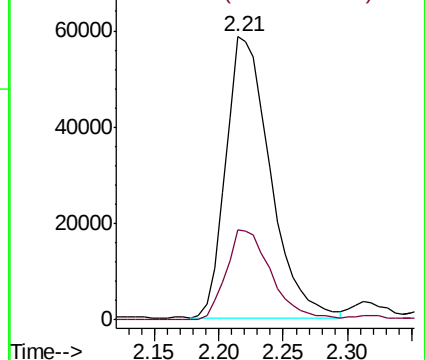
50 100

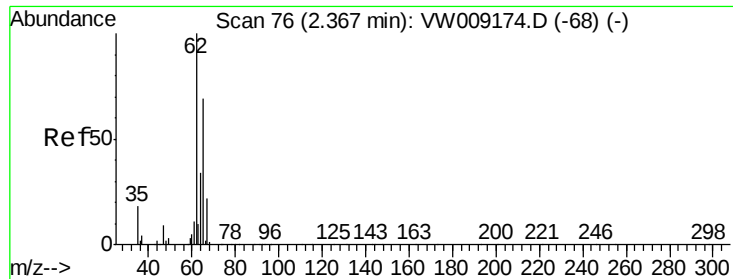
52 31.9 21.6 40.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 26.230 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW009193.D

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Instrument :

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ClientSampleId :

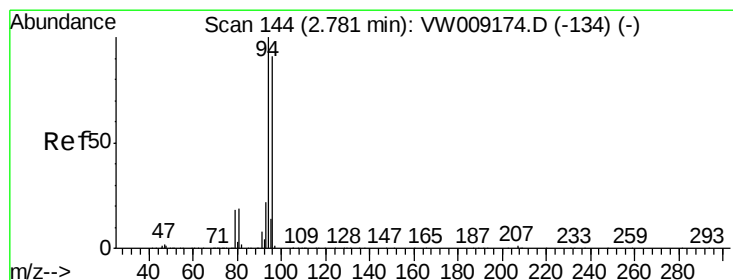
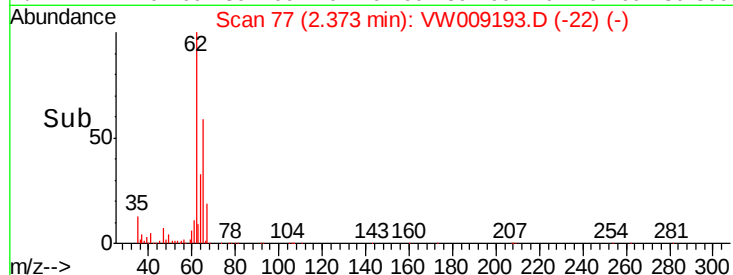
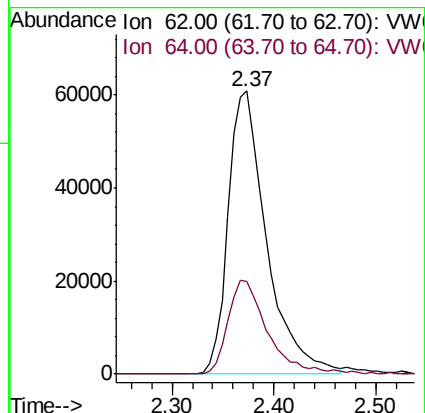
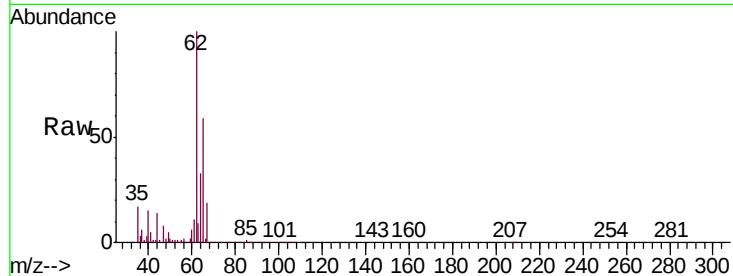
VSTD02508

Tgt Ion: 62 Resp: 158853

Ion Ratio Lower Upper

62 100

64 32.8 23.0 42.6



#6

Bromomethane

Concen: 25.073 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW009193.D

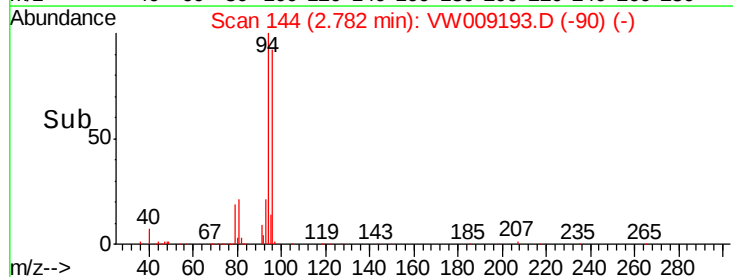
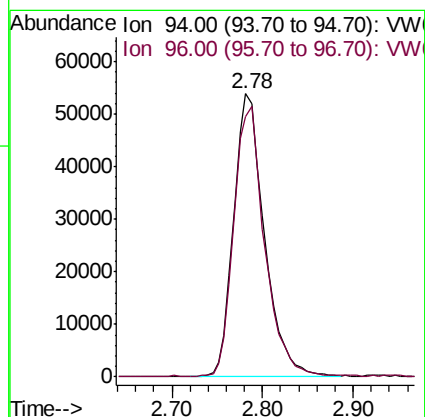
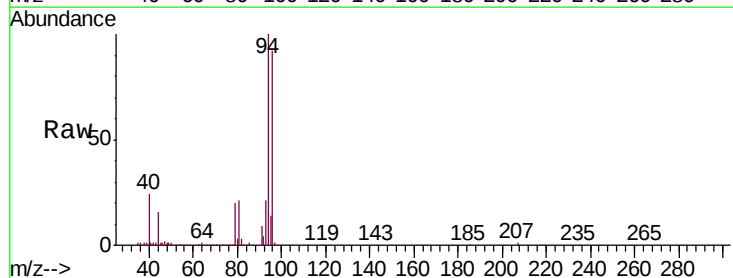
Acq: 15 Mar 2019 01:47

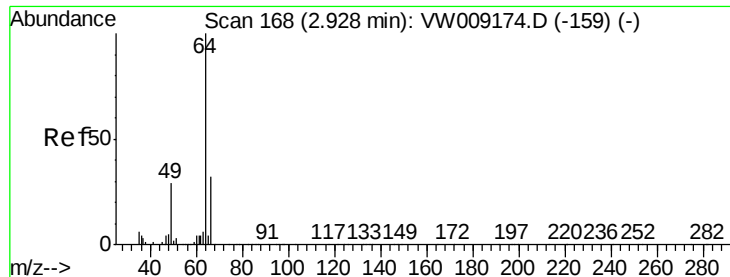
Tgt Ion: 94 Resp: 127216

Ion Ratio Lower Upper

94 100

96 96.0 9.4 178.4





#8

Chloroethane

Concen: 23.596 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

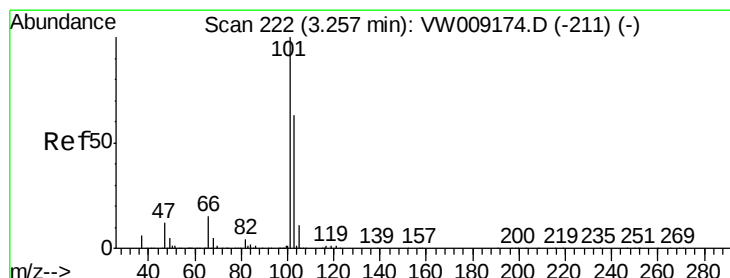
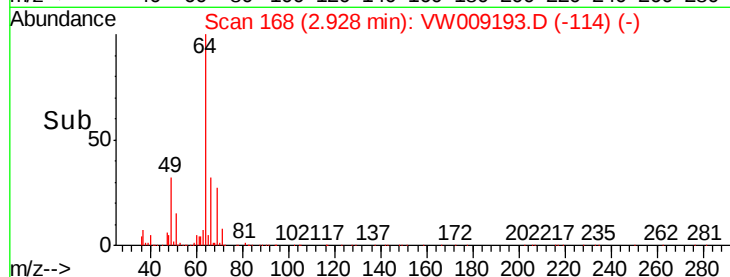
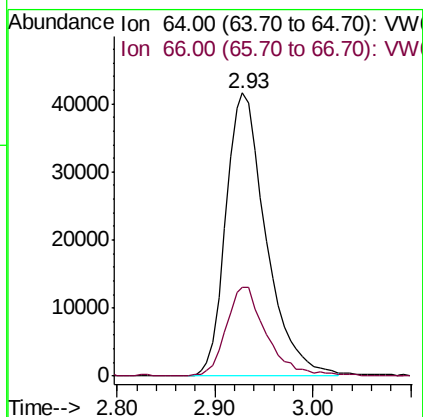
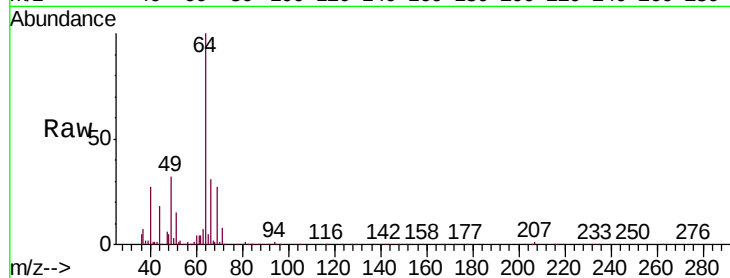
VSTD02508

Tgt Ion: 64 Resp: 118227

Ion Ratio Lower Upper

64 100

66 31.5 25.1 46.7



#9

Trichlorofluoromethane

Concen: 19.513 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.01 min

Lab File: VW009193.D

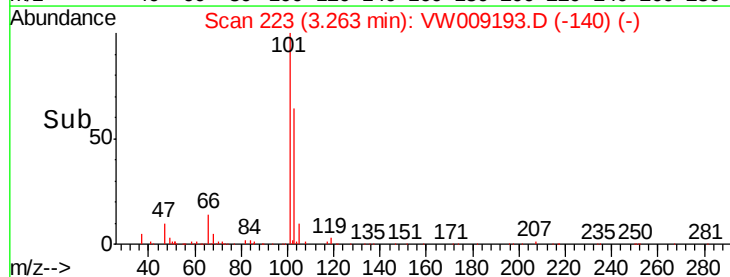
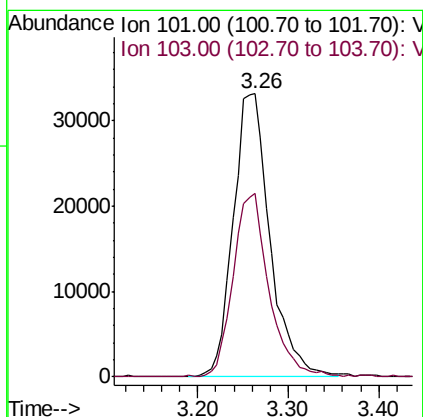
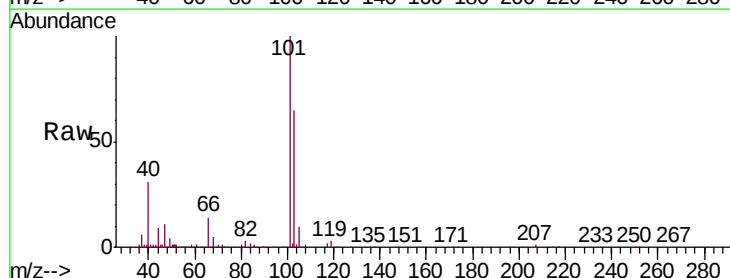
Acq: 15 Mar 2019 01:47

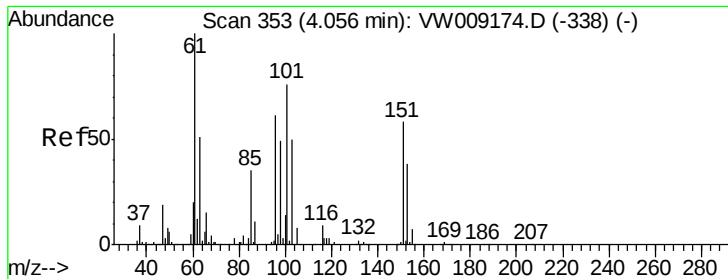
Tgt Ion: 101 Resp: 93344

Ion Ratio Lower Upper

101 100

103 63.3 45.0 83.6





#11

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

Concen: 23.746 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

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ClientSampleId :

VSTD02508

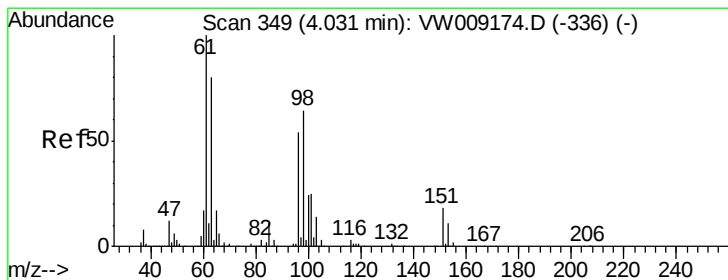
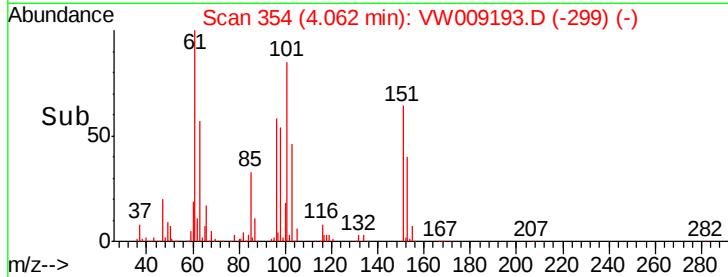
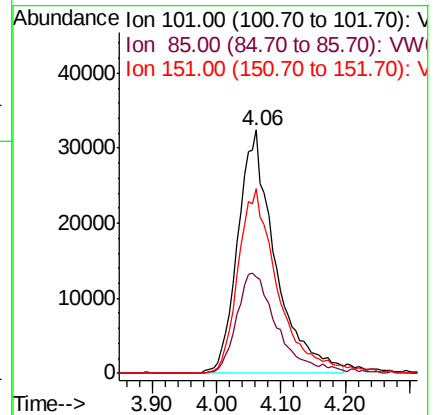
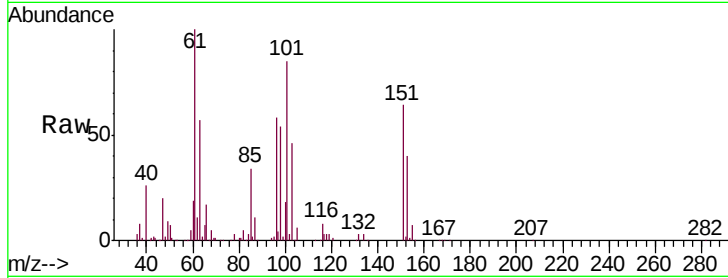
Tgt Ion:101 Resp: 131187

Ion Ratio Lower Upper

101 100

85 43.3 32.6 48.8

151 77.3 63.3 94.9



#12

1,1-Dichloroethene

Concen: 24.935 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

Lab File: VW009193.D

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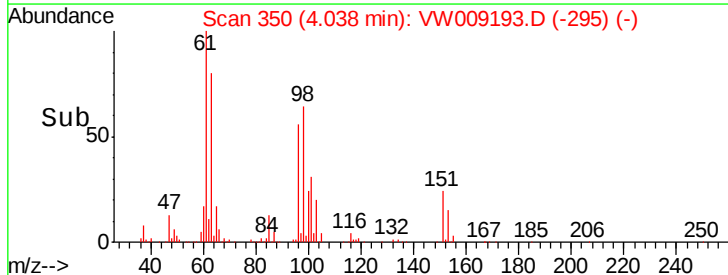
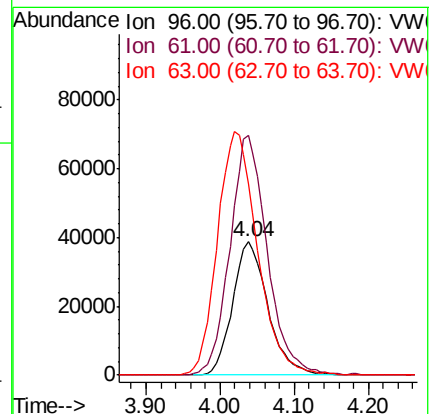
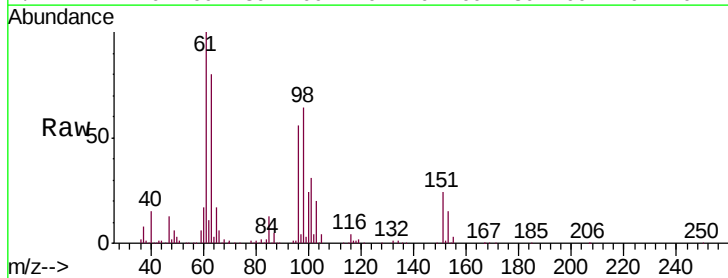
Tgt Ion: 96 Resp: 129260

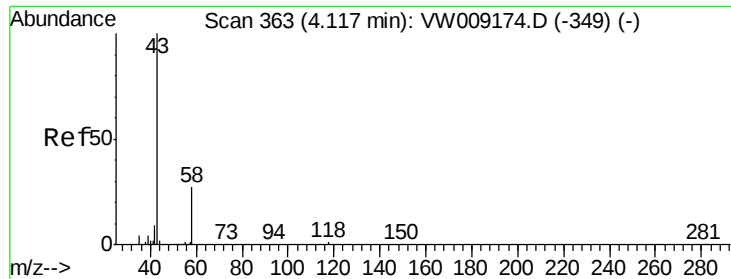
Ion Ratio Lower Upper

96 100

61 180.2 129.4 240.2

63 144.2 116.8 217.0

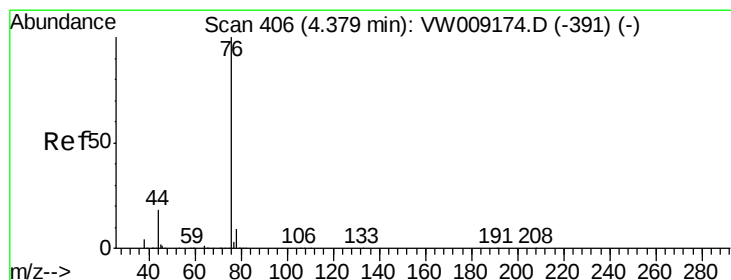
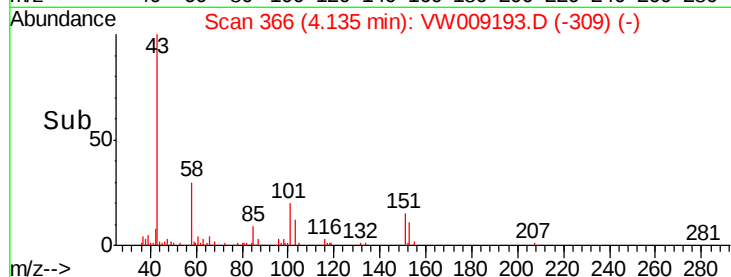
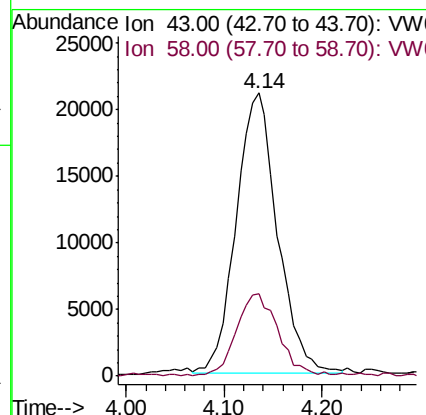
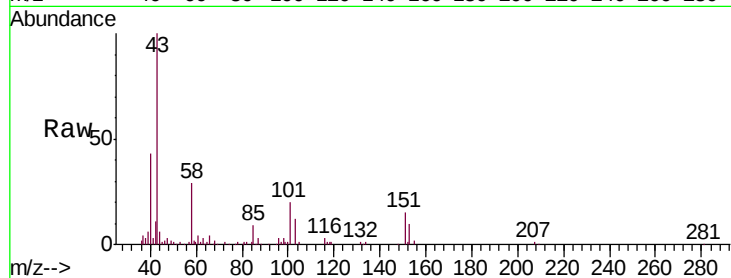




#13
Acetone
Concen: 36.138 ug/L
RT: 4.14 min Scan# 366
Delta R.T. 0.02 min
Lab File: VW009193.D
Acq: 15 Mar 2019 01:47

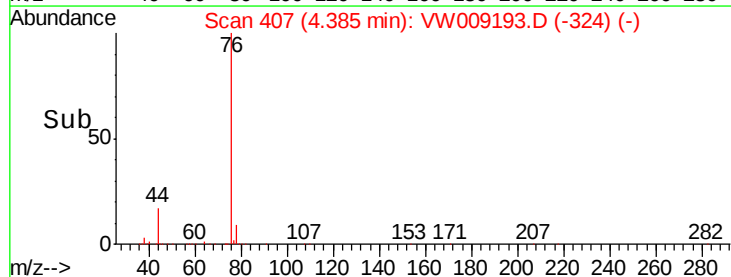
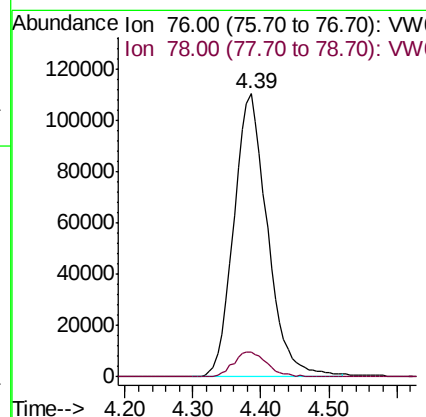
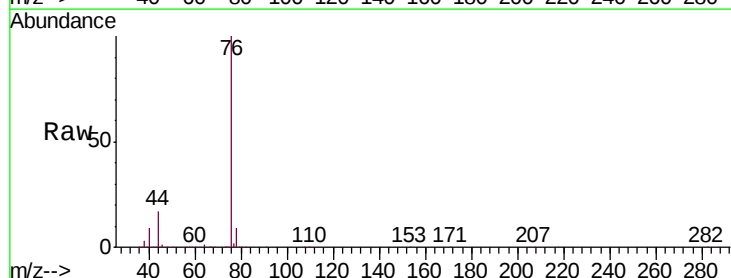
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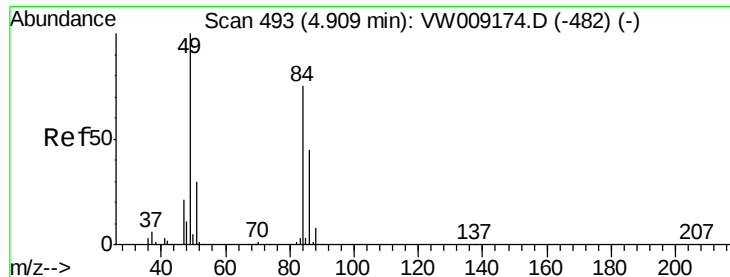
Tgt Ion: 43 Resp: 61656
Ion Ratio Lower Upper
43 100
58 29.6 0.0 56.2



#14
Carbon disulfide
Concen: 27.237 ug/L
RT: 4.39 min Scan# 407
Delta R.T. 0.01 min
Lab File: VW009193.D
Acq: 15 Mar 2019 01:47

Tgt Ion: 76 Resp: 379999
Ion Ratio Lower Upper
76 100
78 8.9 7.3 10.9

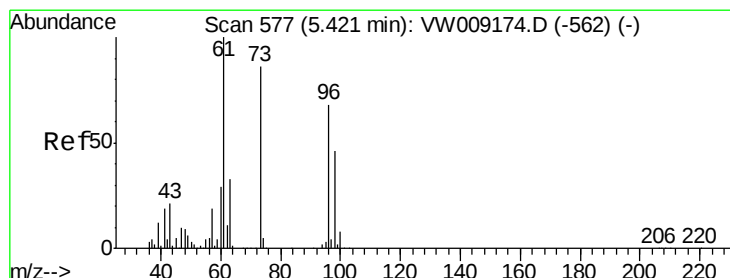
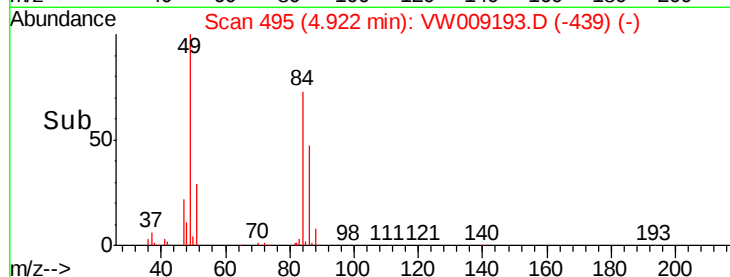
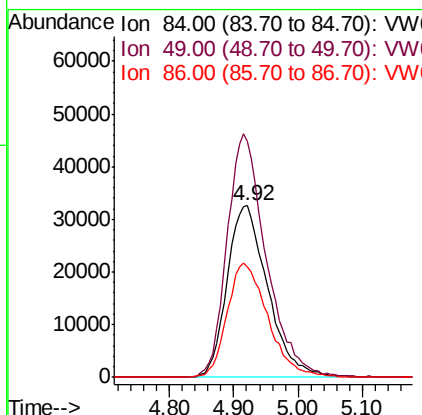
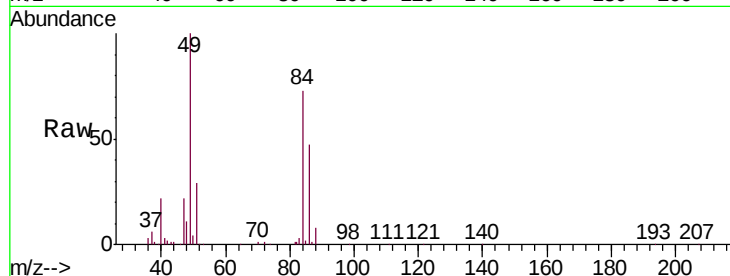




#16
Methylene chloride
Concen: 23.317 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW009193.D
Acq: 15 Mar 2019 01:47

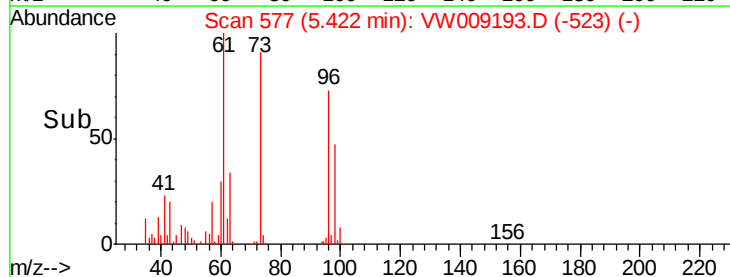
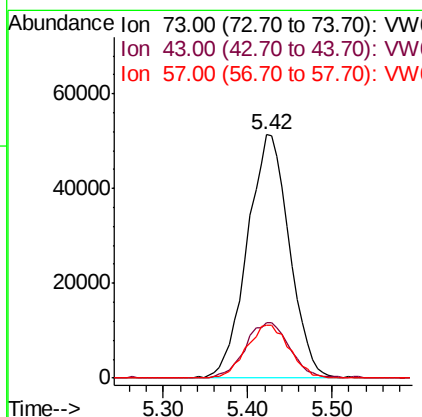
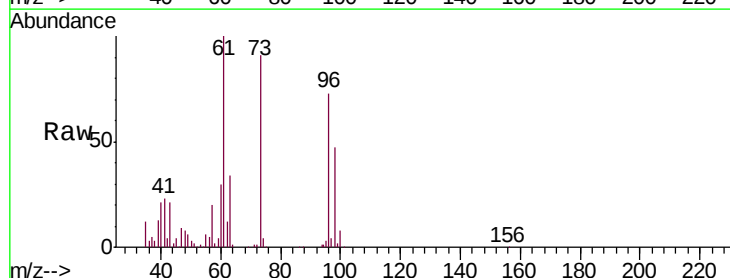
Instrument :
MSVOA_W
ClientSampled :
VSTD02508

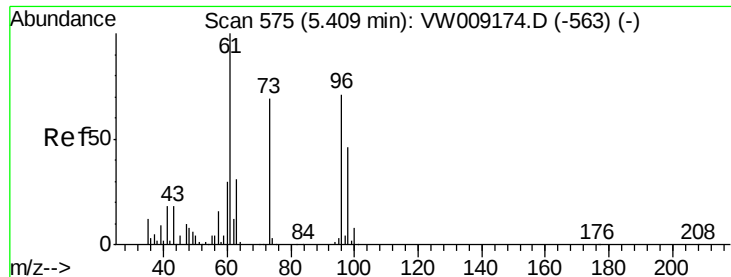
Tgt Ion: 84 Resp: 143143
Ion Ratio Lower Upper
84 100
49 137.0 96.0 178.2
86 64.6 44.4 82.5



#17
Methyl tert-butyl Ether
Concen: 23.873 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW009193.D
Acq: 15 Mar 2019 01:47

Tgt Ion: 73 Resp: 175110
Ion Ratio Lower Upper
73 100
43 23.7 18.2 27.4
57 22.4 17.8 26.8





#18

trans-1,2-Dichloroethene

Concen: 25.095 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.01 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

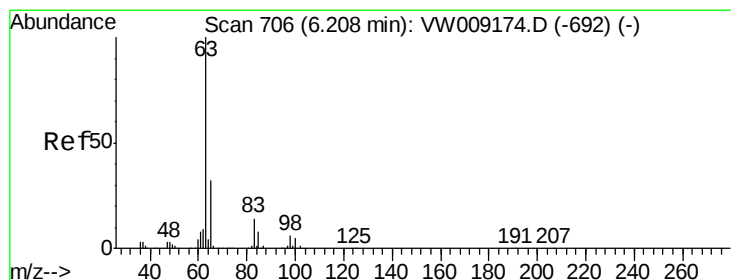
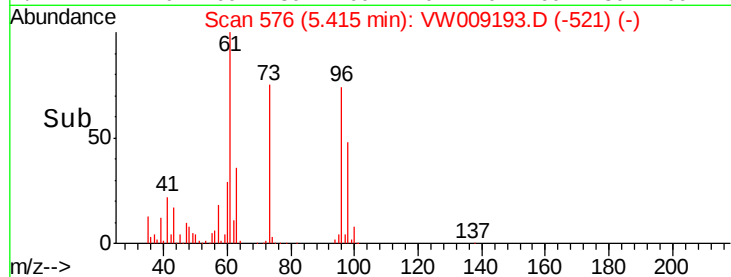
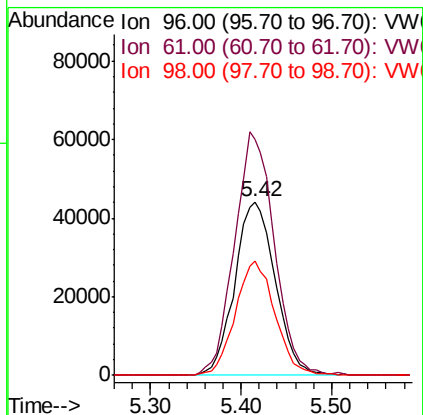
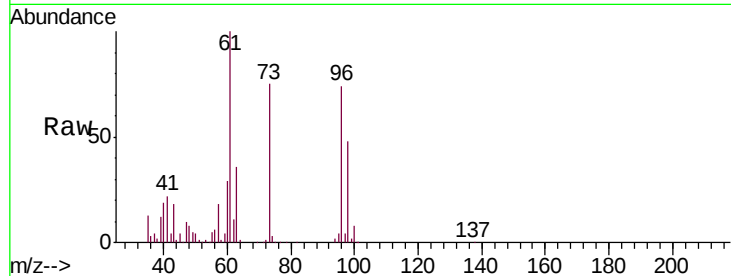
Tgt Ion: 96 Resp: 136777

Ion Ratio Lower Upper

96 100

61 136.0 96.7 179.5

98 65.9 43.8 81.4



#19

1,1-Dichloroethane

Concen: 25.349 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

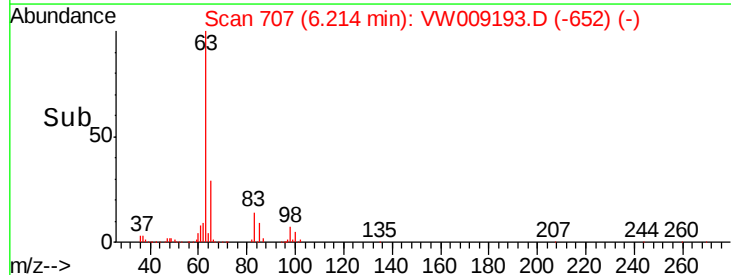
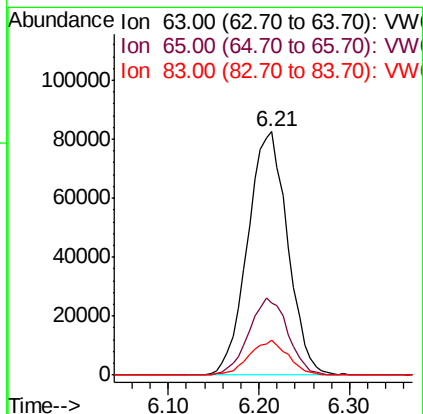
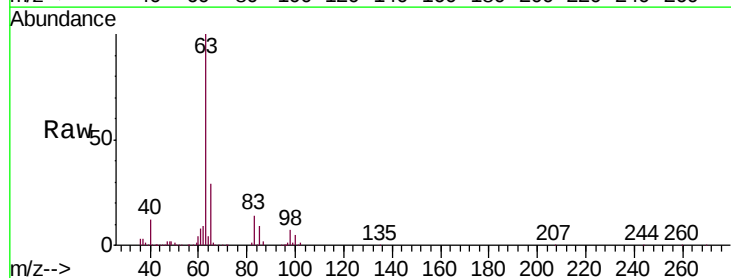
Tgt Ion: 63 Resp: 251910

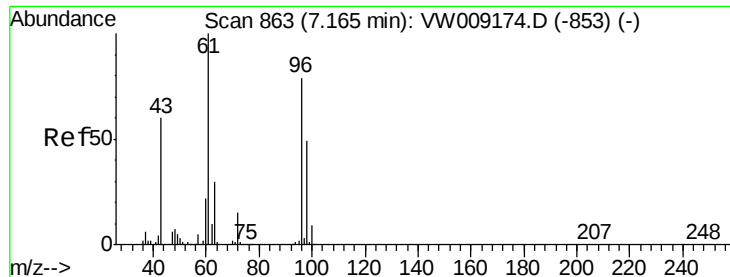
Ion Ratio Lower Upper

63 100

65 29.4 21.6 40.0

83 14.1 10.1 18.7

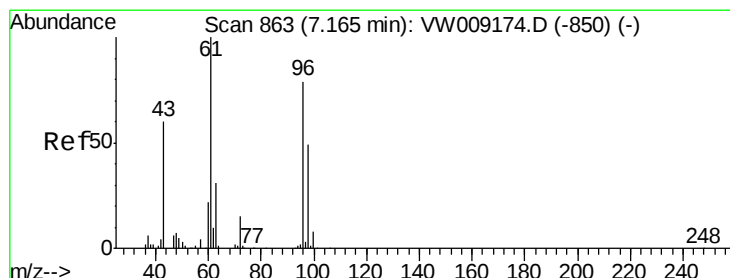
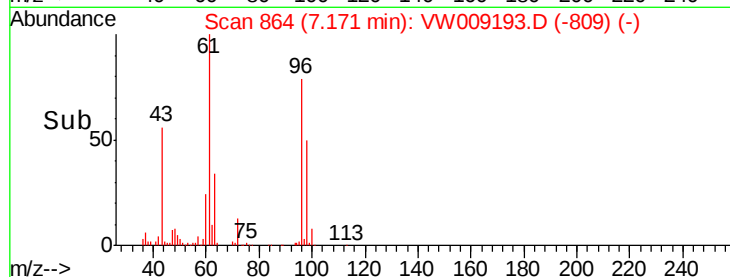
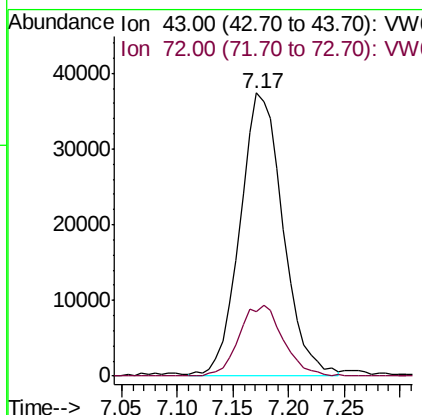
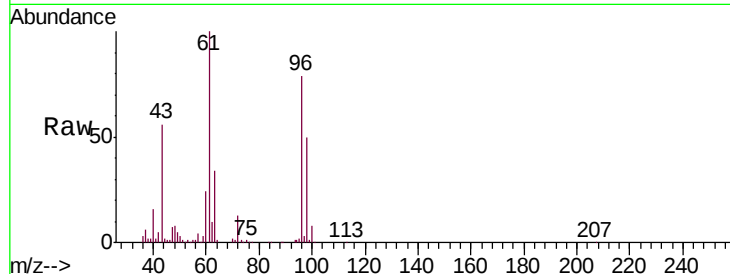




#21
 2-Butanone
 Concen: 42.744 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

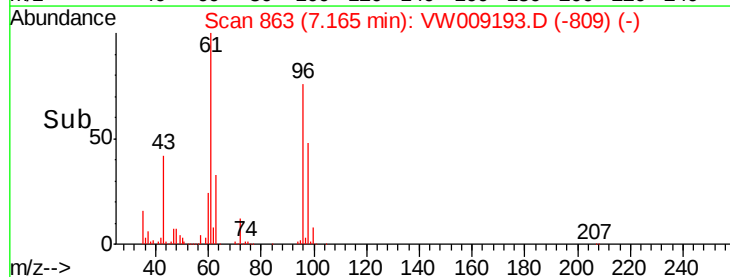
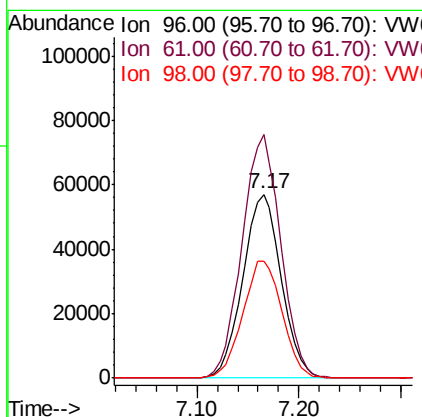
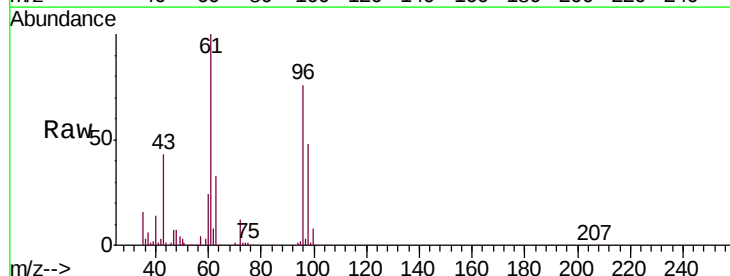
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

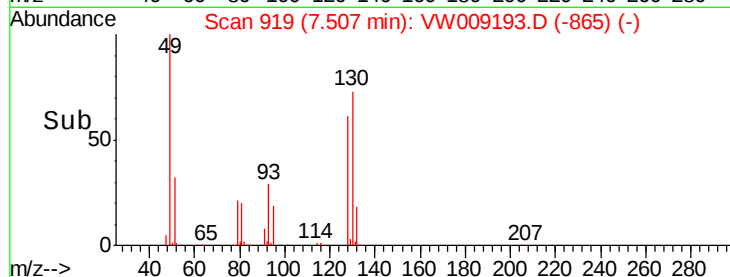
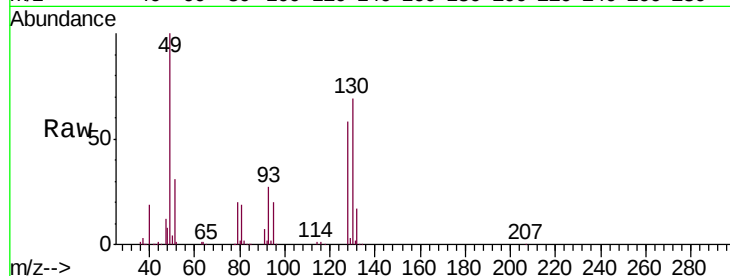
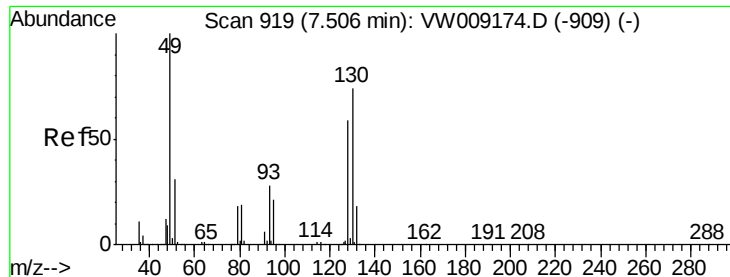
Tgt Ion: 43 Resp: 100694
 Ion Ratio Lower Upper
 43 100
 72 25.5 13.1 39.1



#22
 cis-1,2-Dichloroethene
 Concen: 25.354 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

Tgt Ion: 96 Resp: 149696
 Ion Ratio Lower Upper
 96 100
 61 132.4 90.6 168.3
 98 63.6 44.0 81.8





#23

Bromochloromethane

Concen: 25.641 ug/L

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

Tgt Ion:128 Resp: 72610

Ion Ratio Lower Upper

128 100

49 172.6 118.4 219.8

130 119.6 87.8 163.2

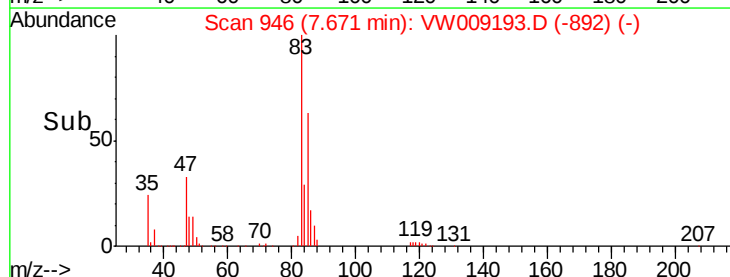
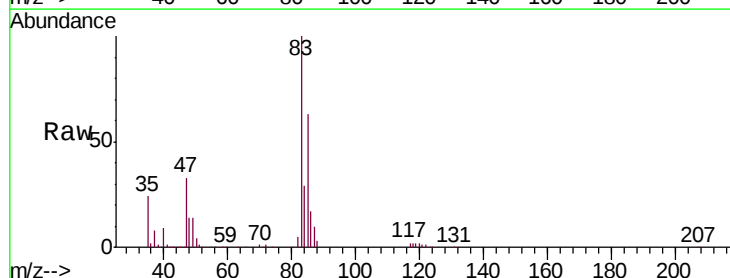
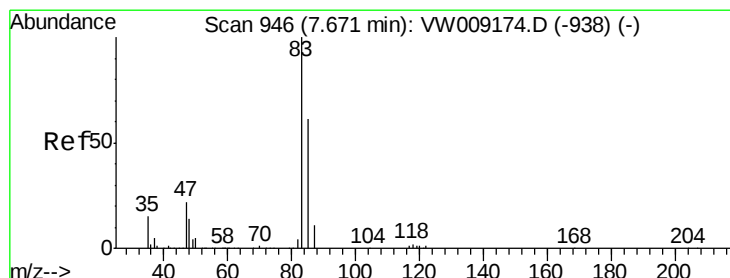
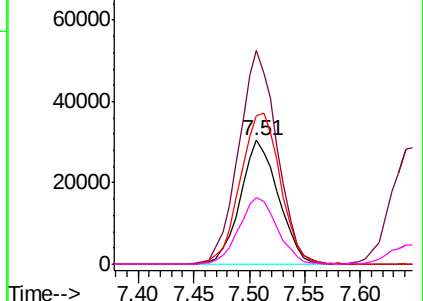
51 54.2 44.6 67.0

Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 25.556 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Tgt Ion: 83 Resp: 265969

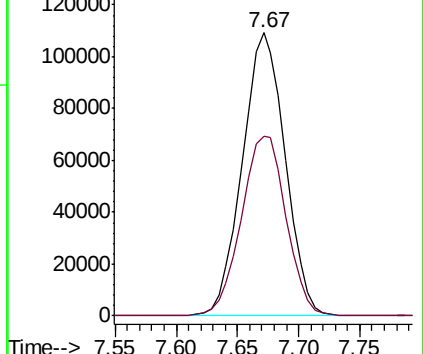
Ion Ratio Lower Upper

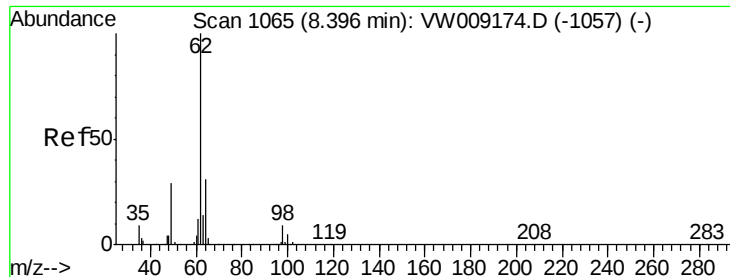
83 100

85 66.5 46.0 85.4

Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 25.872 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampled :

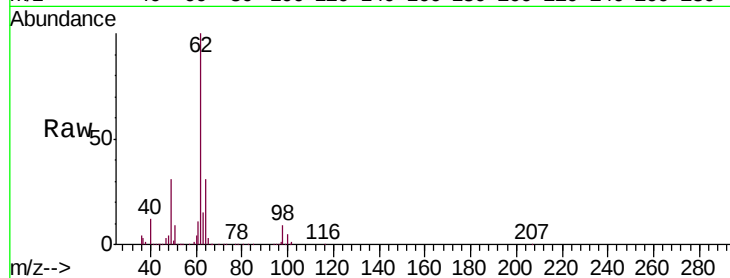
VSTD02508

Tgt Ion: 62 Resp: 200754

Ion Ratio Lower Upper

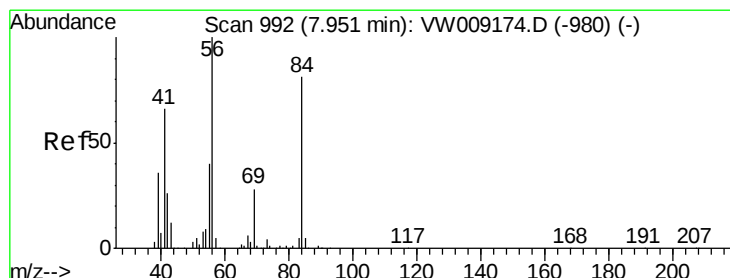
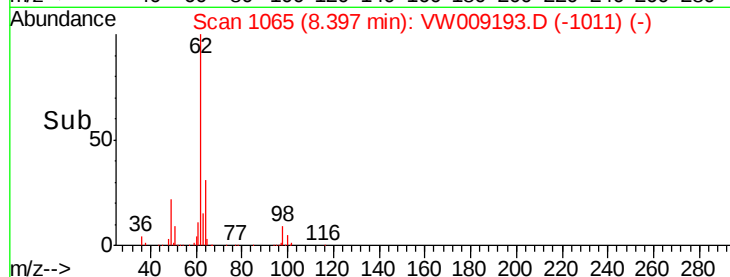
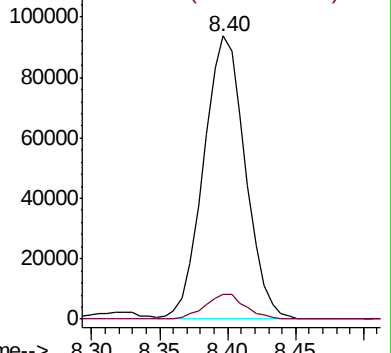
62 100

98 8.7 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW



#30

Cyclohexane

Concen: 22.710 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

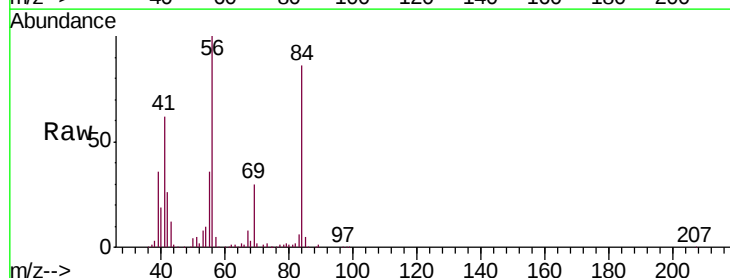
Tgt Ion: 56 Resp: 212492

Ion Ratio Lower Upper

56 100

69 29.9 24.0 36.0

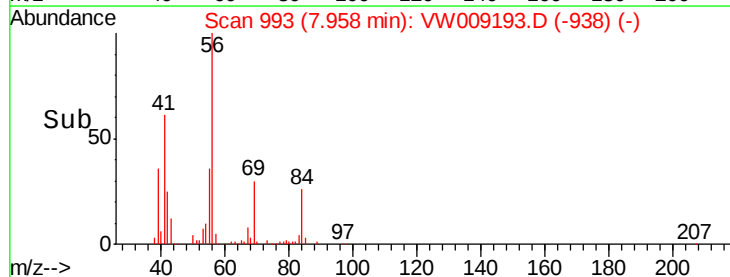
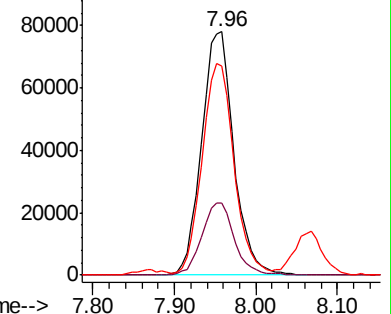
84 86.8 69.2 103.8

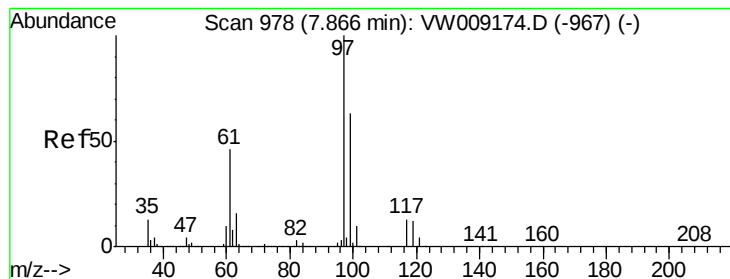


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW





#31

1,1,1-Trichloroethane

Concen: 24.119 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

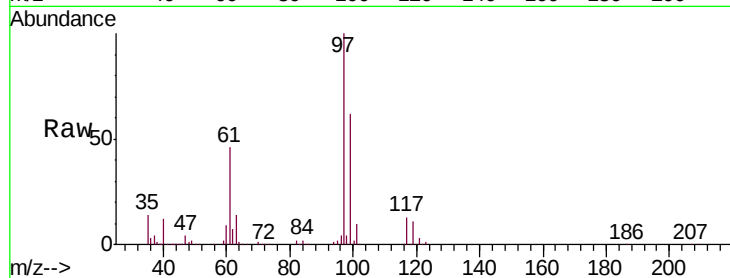
Tgt Ion: 97 Resp: 198465

Ion Ratio Lower Upper

97 100

99 62.5 51.2 76.8

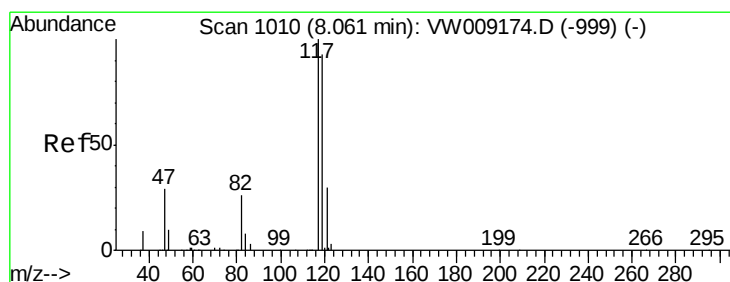
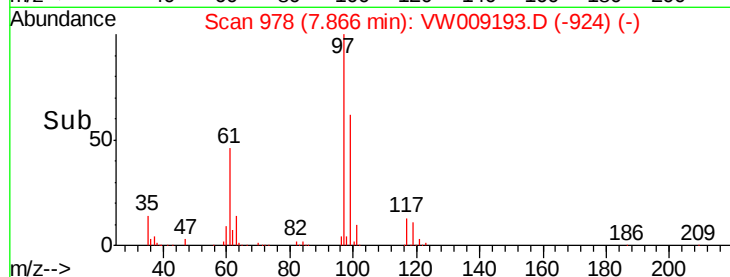
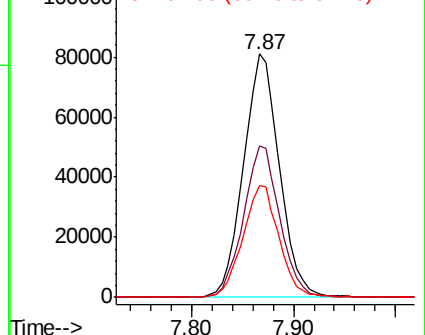
61 46.0 38.4 57.6



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: 24.206 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009193.D

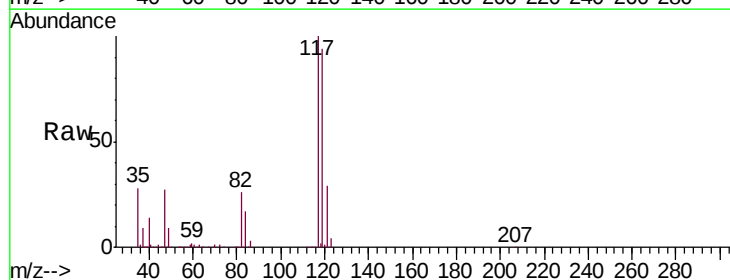
Acq: 15 Mar 2019 01:47

Tgt Ion: 117 Resp: 200959

Ion Ratio Lower Upper

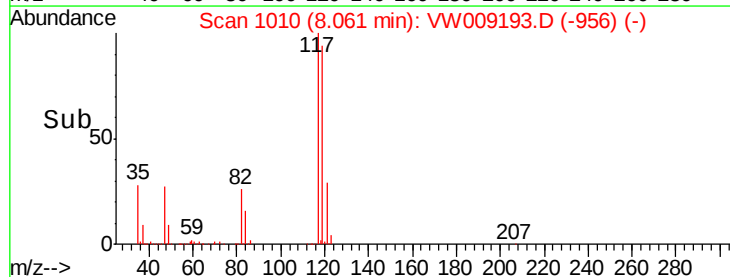
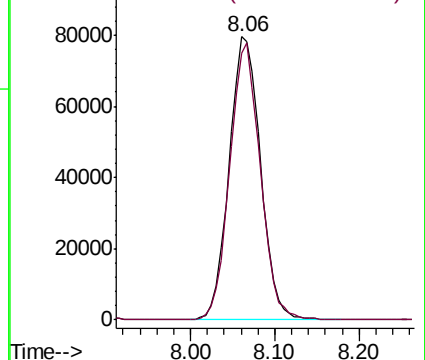
117 100

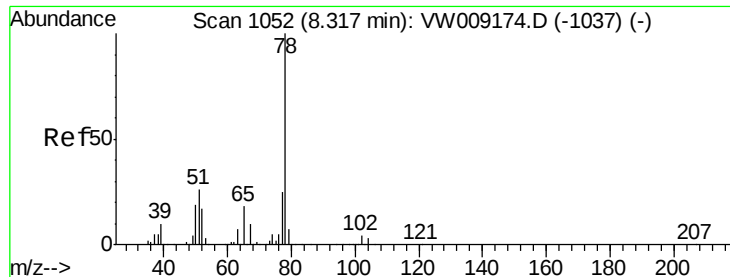
119 95.0 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 25.340 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

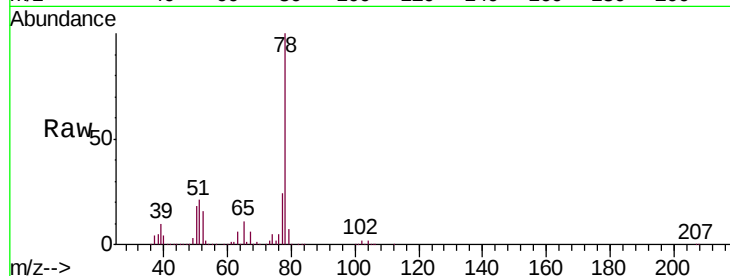
Instrument :

MSVOA_W

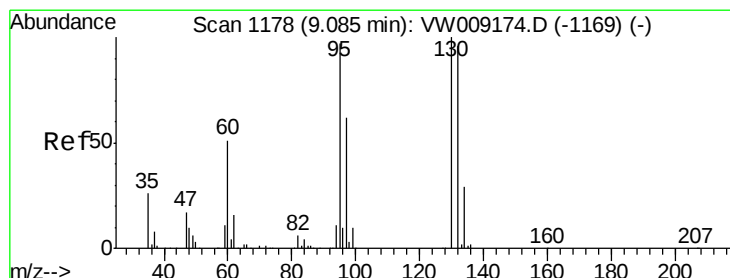
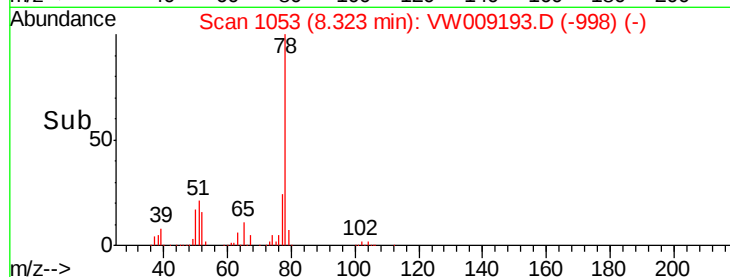
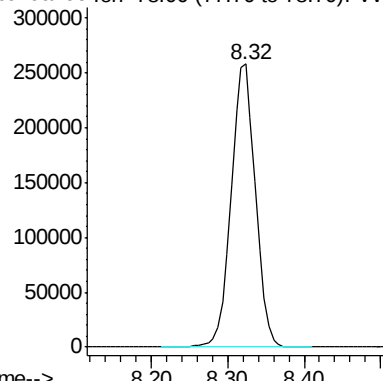
ClientSampleId :

VSTD02508

Tgt Ion: 78 Resp: 571425



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 23.972 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Tgt Ion: 95 Resp: 144045

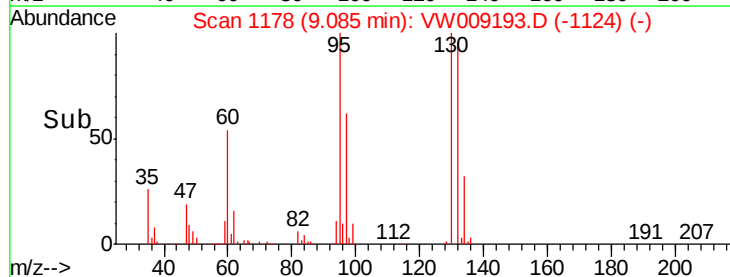
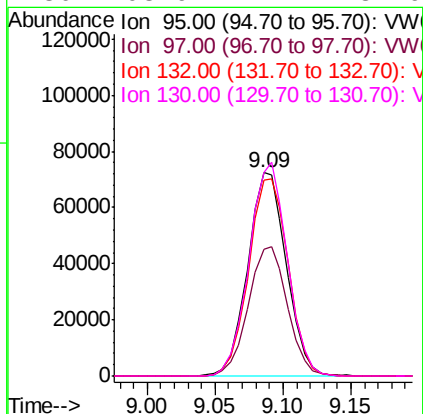
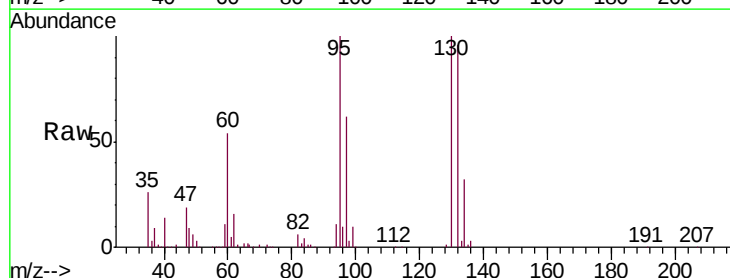
Ion	Ratio	Lower	Upper
95	100		
97	64.5	44.7	82.9
132	99.3	69.0	128.2
130	103.9	72.7	134.9

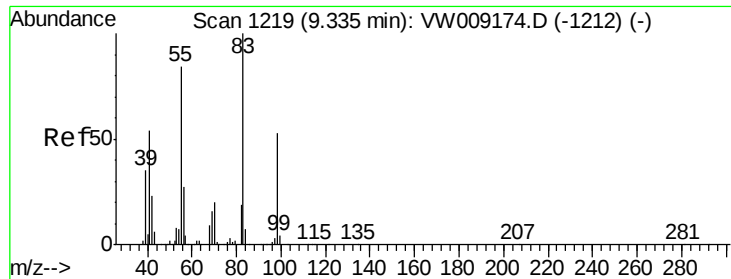
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

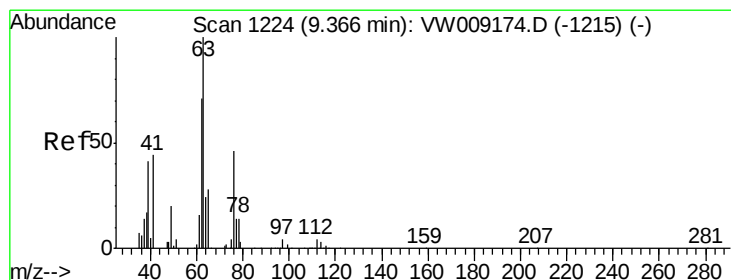
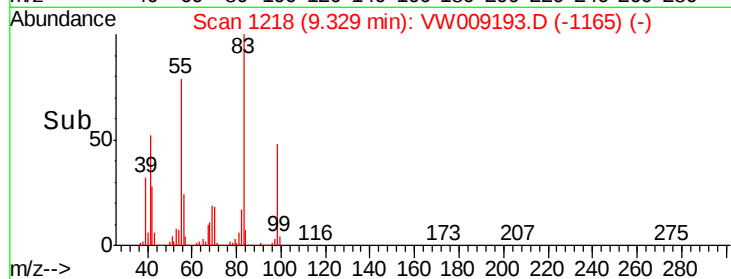
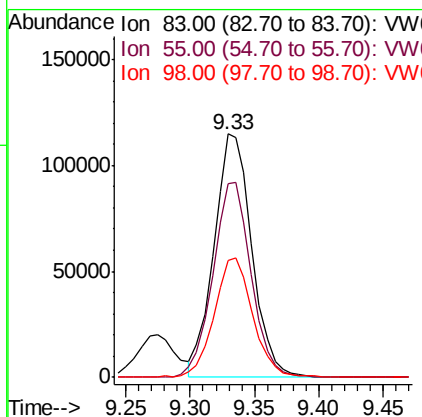
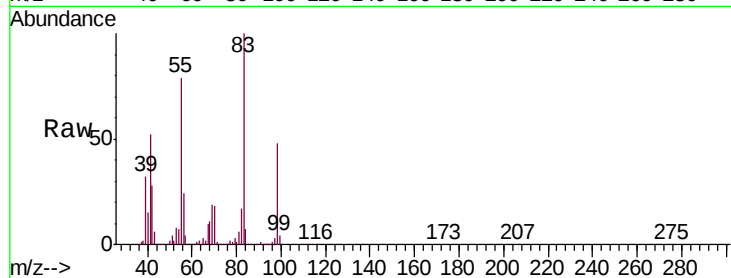




#36
Methylcyclohexane
Concen: 22.721 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW009193.D
Acq: 15 Mar 2019 01:47

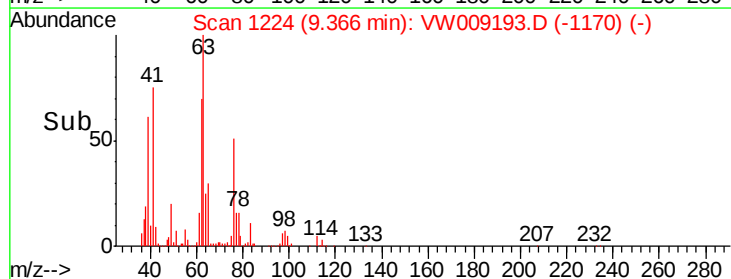
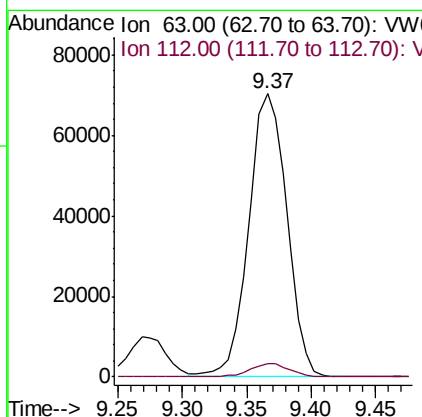
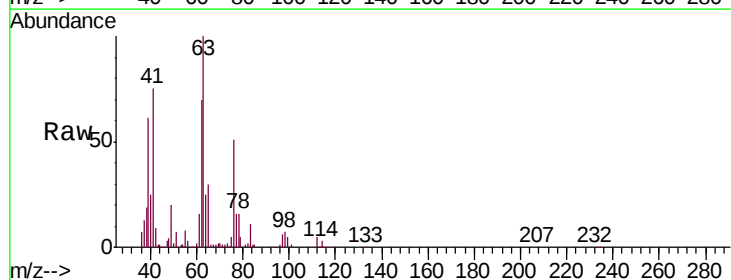
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

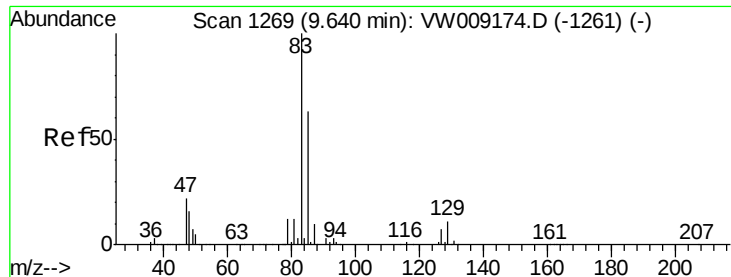
Tgt Ion: 83 Resp: 236203
Ion Ratio Lower Upper
83 100
55 81.1 63.5 95.3
98 49.1 39.8 59.8



#40
1,2-Dichloropropane
Concen: 24.899 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VW009193.D
Acq: 15 Mar 2019 01:47

Tgt Ion: 63 Resp: 144083
Ion Ratio Lower Upper
63 100
112 4.7 4.0 6.0





#41

Bromodichloromethane

Concen: 25.486 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

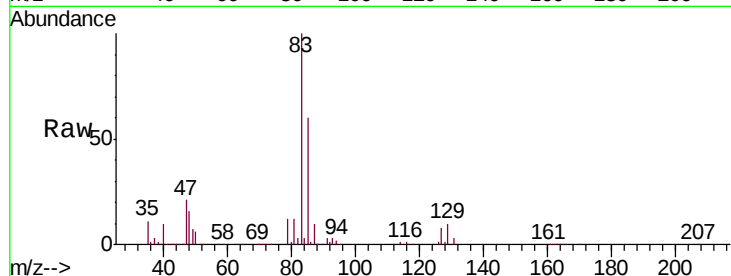
Tgt Ion: 83 Resp: 204338

Ion Ratio Lower Upper

83 100

85 60.2 43.5 80.7

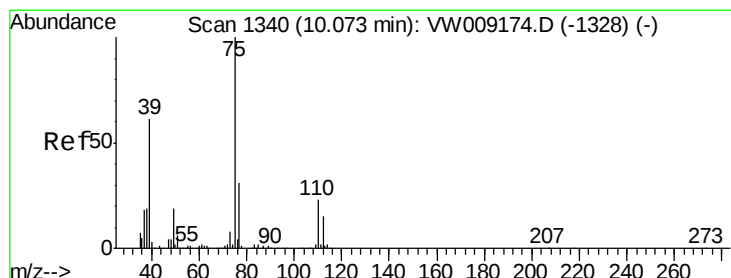
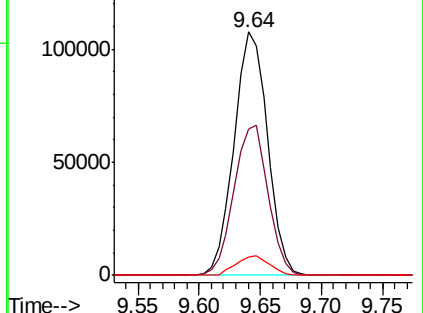
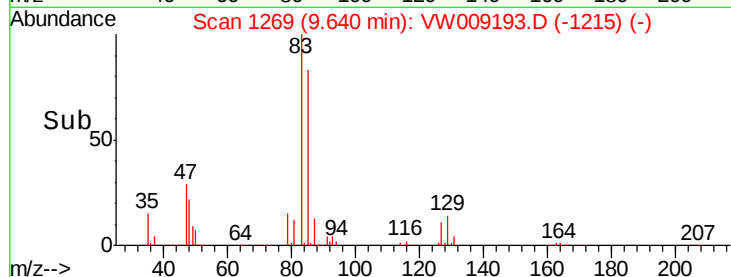
127 7.7 6.2 9.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#42

cis-1,3-Dichloropropene

Concen: 24.174 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW009193.D

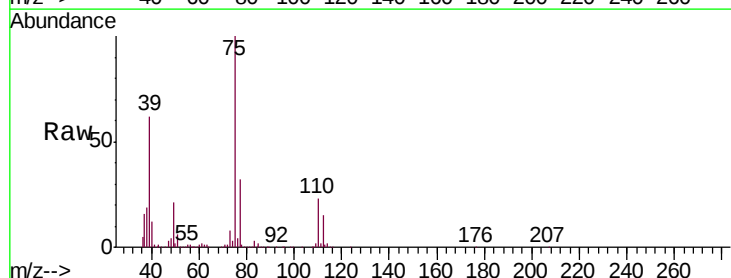
Acq: 15 Mar 2019 01:47

Tgt Ion: 75 Resp: 227838

Ion Ratio Lower Upper

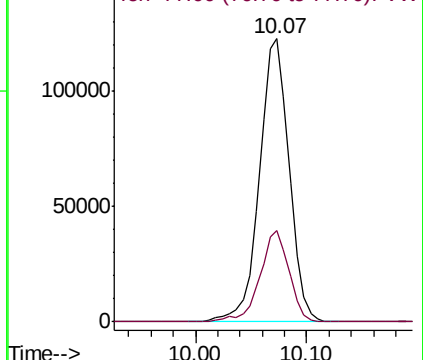
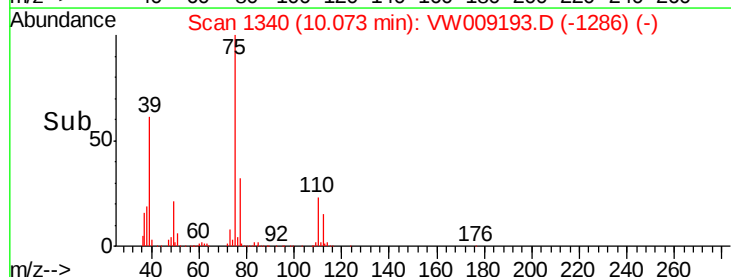
75 100

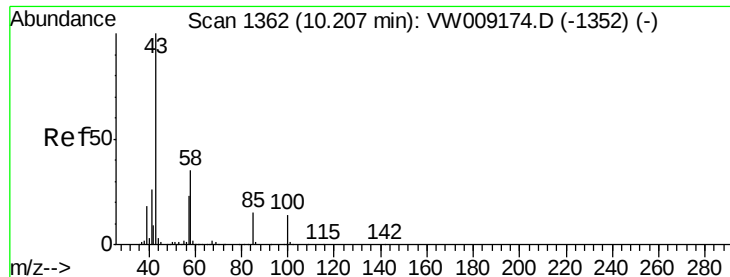
77 32.4 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#43

4-Methyl-2-pentanone

Concen: 43.283 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampled :

VSTD02508

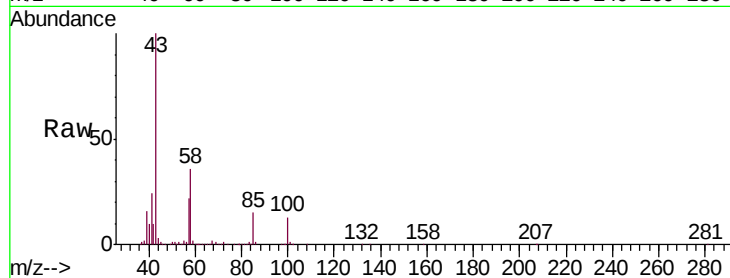
Tgt Ion: 43 Resp: 226954

Ion Ratio Lower Upper

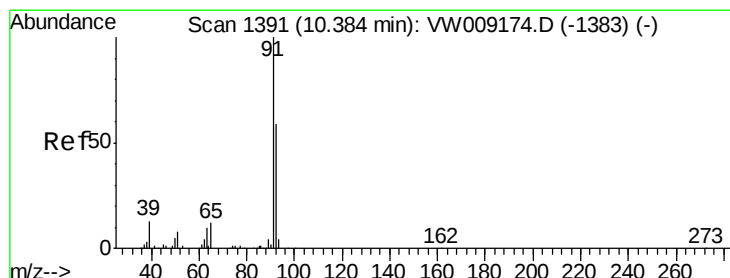
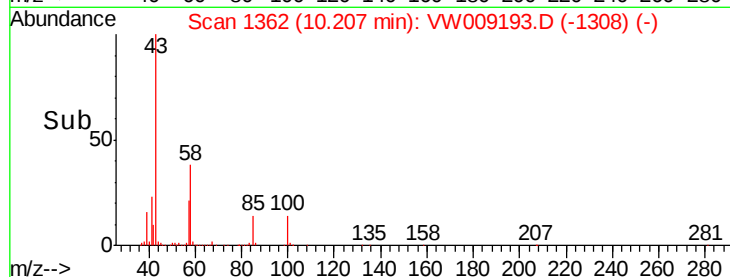
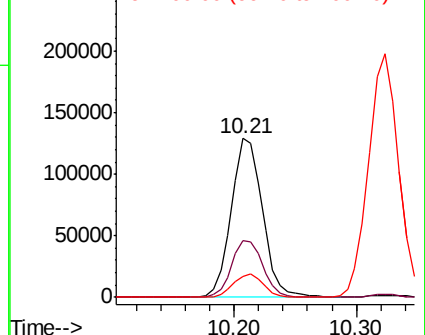
43 100

58 36.3 28.2 42.2

100 14.5 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 100.00 (99.70 to 100.70): VW



#44

Toluene

Concen: 24.548 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009193.D

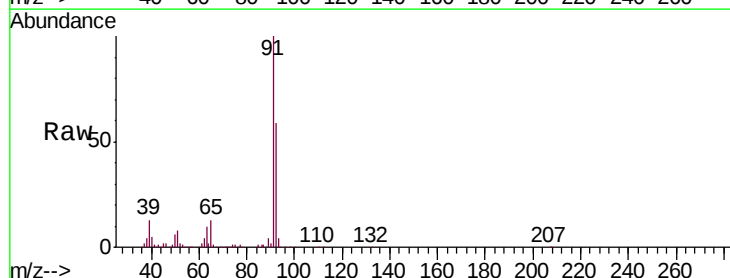
Acq: 15 Mar 2019 01:47

Tgt Ion: 91 Resp: 605232

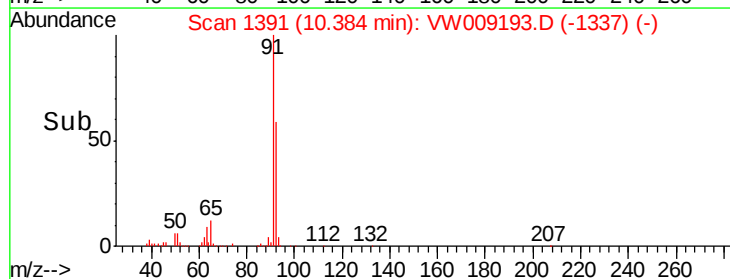
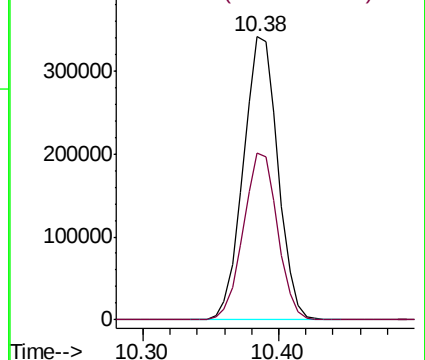
Ion Ratio Lower Upper

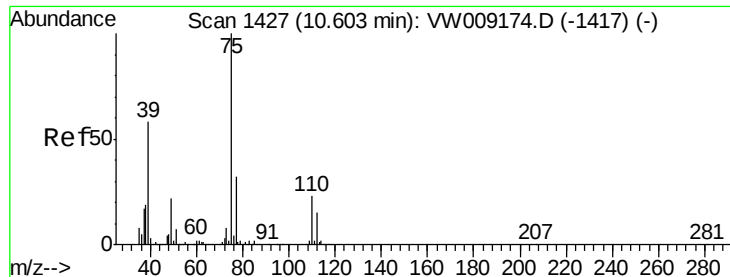
91 100

92 58.9 39.8 73.8



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW





#45

trans-1,3-Dichloropropene

Concen: 23.848 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

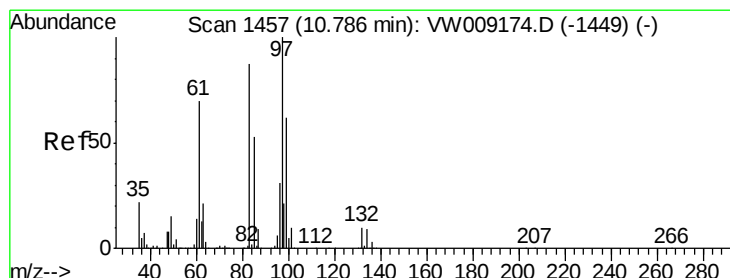
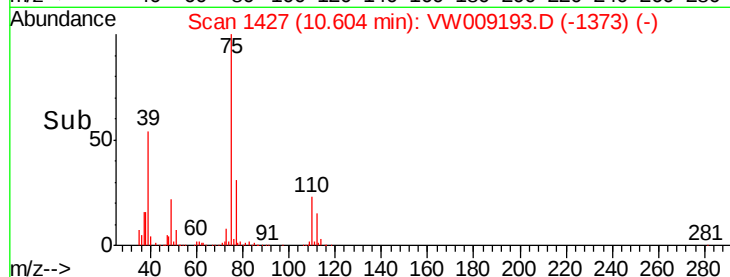
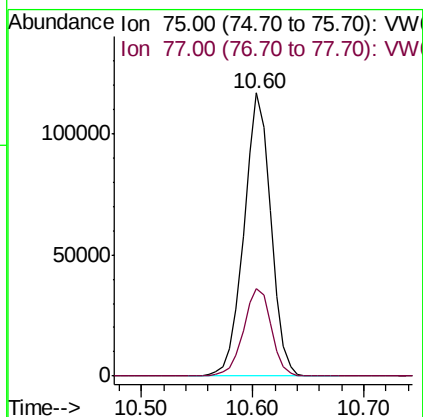
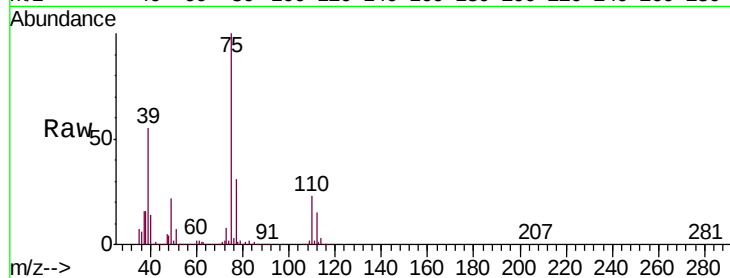
VSTD02508

Tgt Ion: 75 Resp: 195521

Ion Ratio Lower Upper

75 100

77 31.1 22.5 41.7



#46

1,1,2-Trichloroethane

Concen: 24.786 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Tgt Ion: 97 Resp: 114423

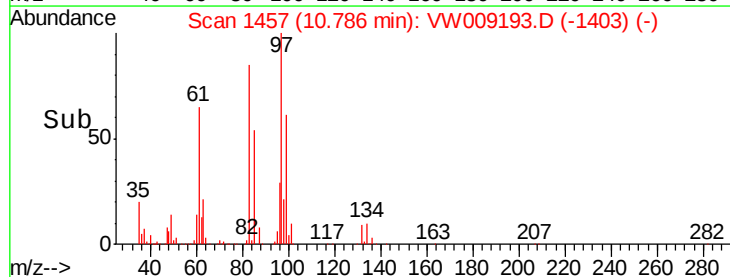
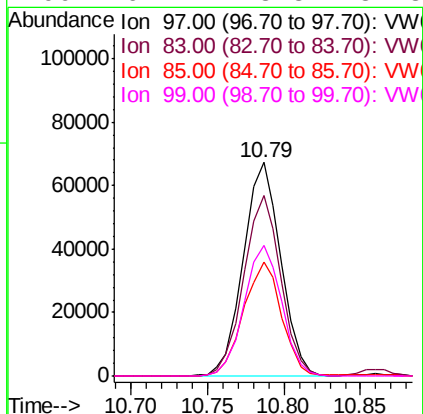
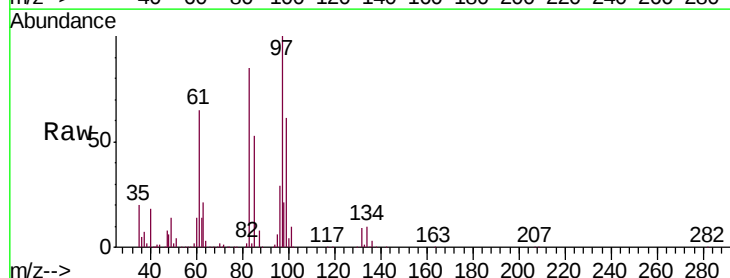
Ion Ratio Lower Upper

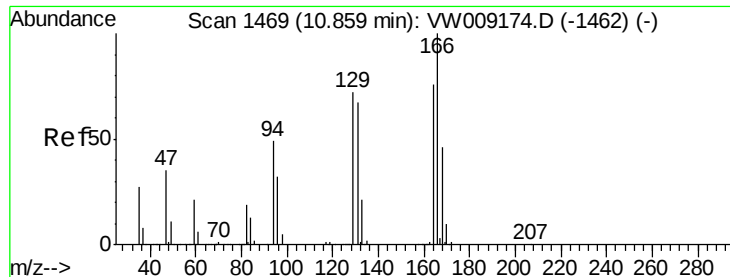
97 100

83 84.6 60.7 112.7

85 53.5 40.1 74.5

99 61.1 43.8 81.3





#47

Tetrachloroethene

Concen: 23.810 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

Tgt Ion:164 Resp: 120888

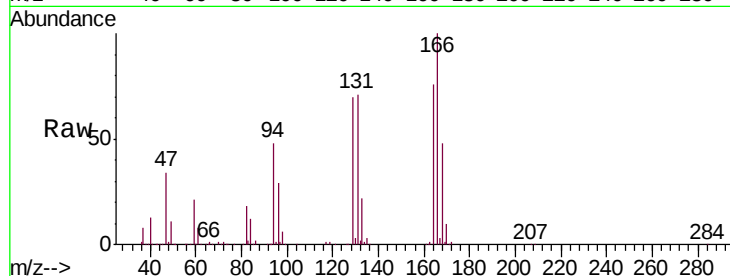
Ion Ratio Lower Upper

164 100

129 92.5 66.5 123.5

131 93.6 62.6 116.3

166 132.0 91.6 170.0

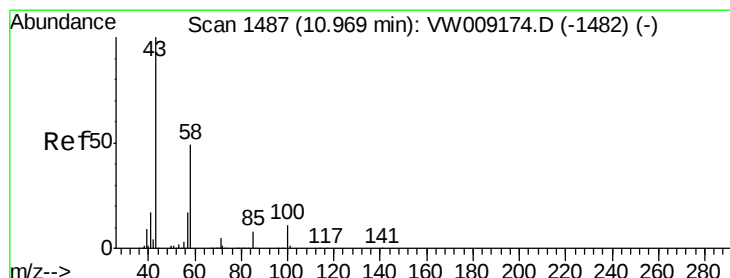
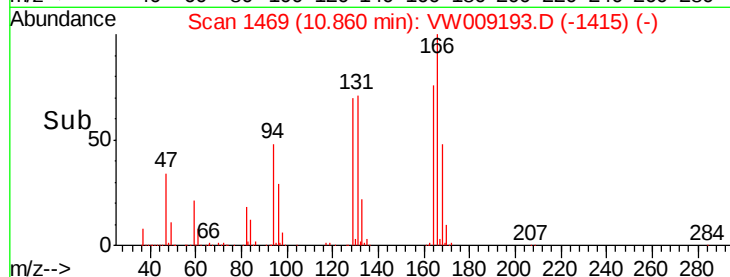
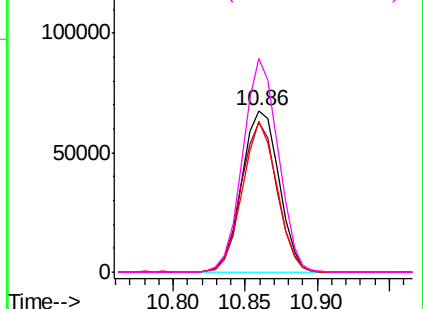


Abundance Ion 164.00 (163.70 to 164.70): V

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: 42.702 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Tgt Ion: 43 Resp: 157700

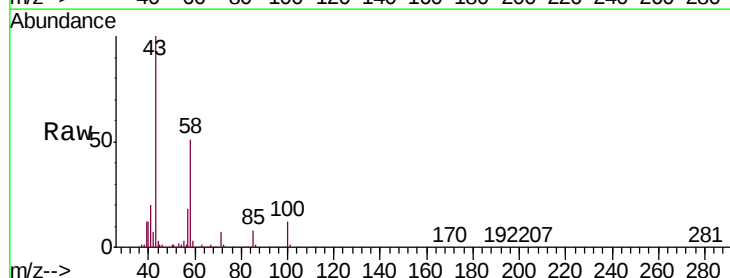
Ion Ratio Lower Upper

43 100

58 50.1 39.2 58.8

57 17.8 14.2 21.2

100 11.6 8.9 13.3

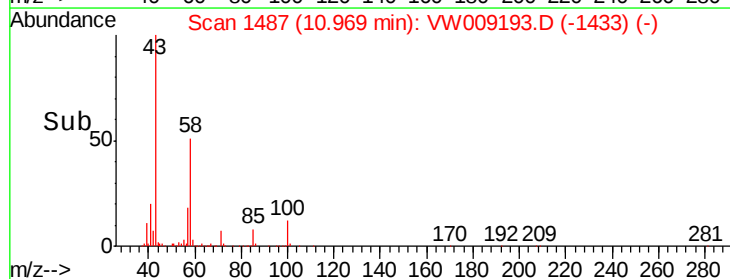
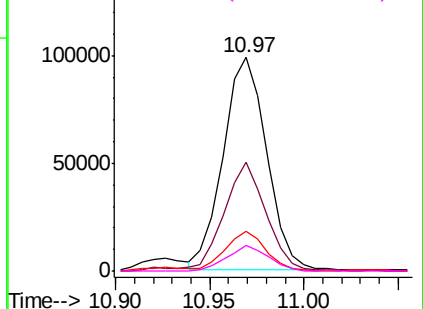


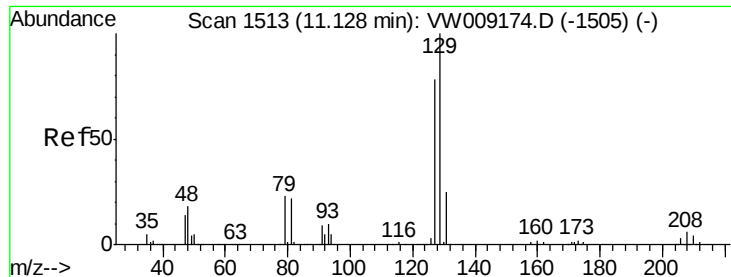
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 57.00 (56.70 to 57.70): V

Ion 100.00 (99.70 to 100.70): V





#50

Dibromochloromethane

Concen: 24.958 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

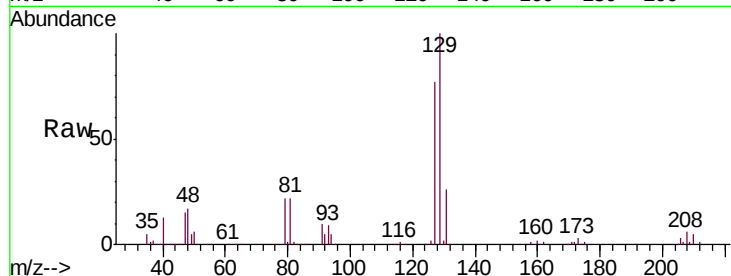
VSTD02508

Tgt Ion:129 Resp: 142230

Ion Ratio Lower Upper

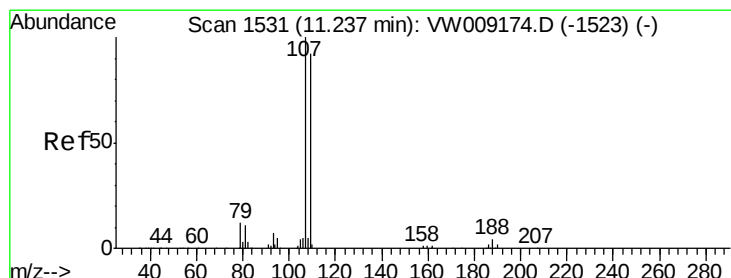
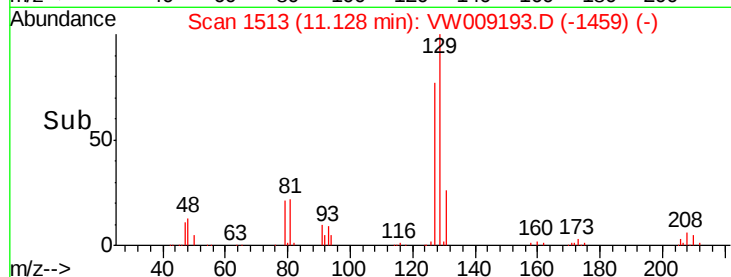
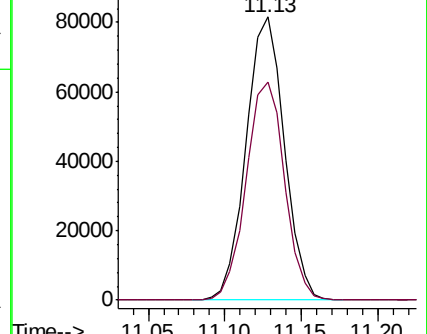
129 100

127 77.1 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 24.365 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

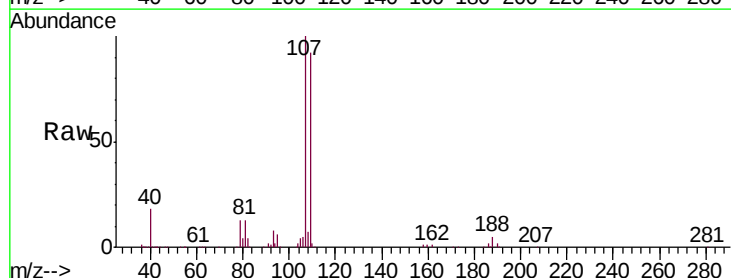
Tgt Ion:107 Resp: 114029

Ion Ratio Lower Upper

107 100

109 91.9 68.0 126.4

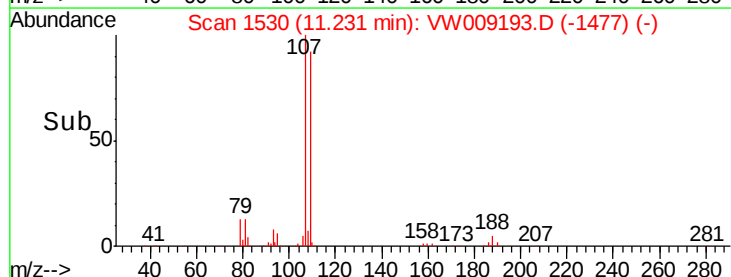
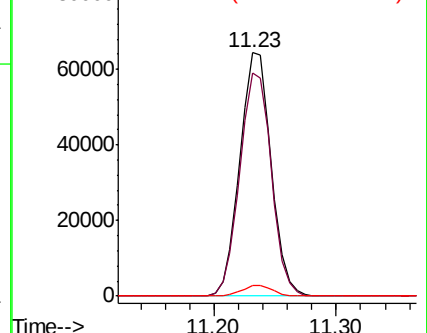
188 4.5 3.5 5.3

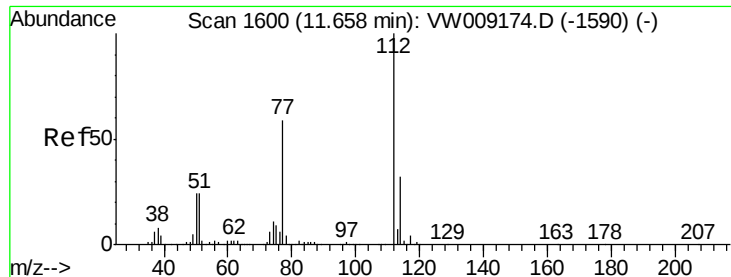


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

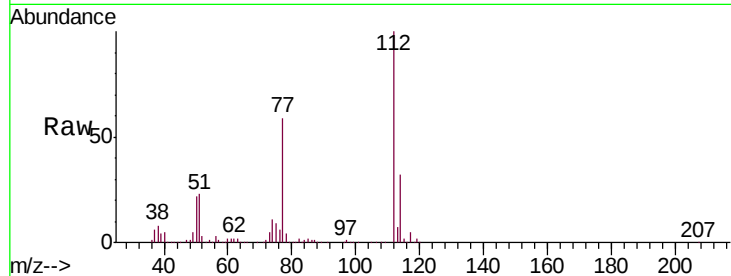




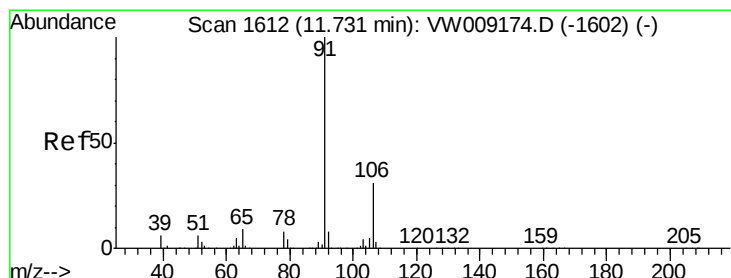
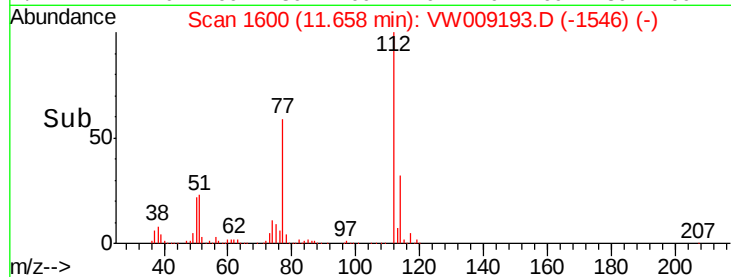
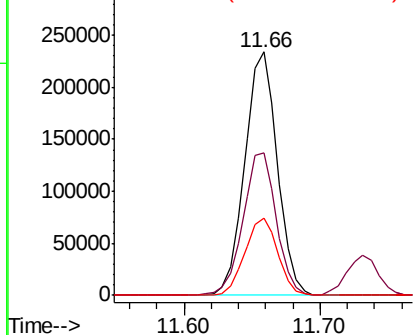
#52
Chlorobenzene
Concen: 24.807 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW009193.D
Acq: 15 Mar 2019 01:47

Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

Tgt Ion: 112 Resp: 392283
Ion Ratio Lower Upper
112 100
77 58.7 45.7 68.5
114 31.5 22.8 42.4

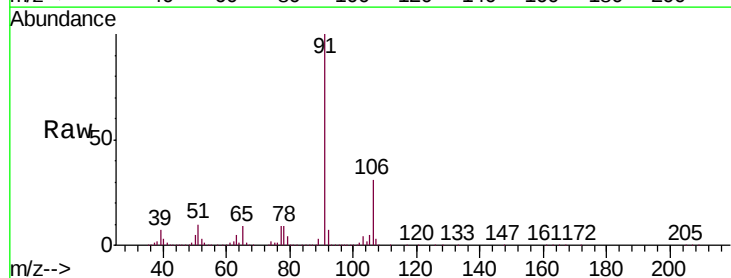


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): VW
Ion 114.00 (113.70 to 114.70): V

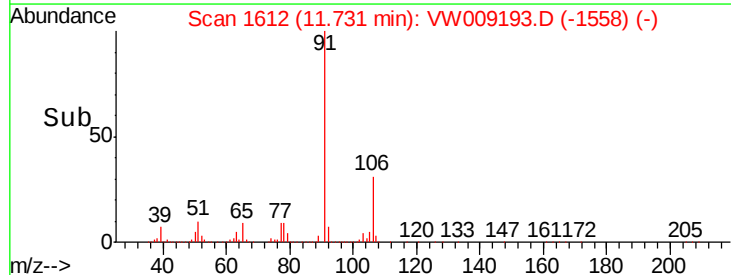
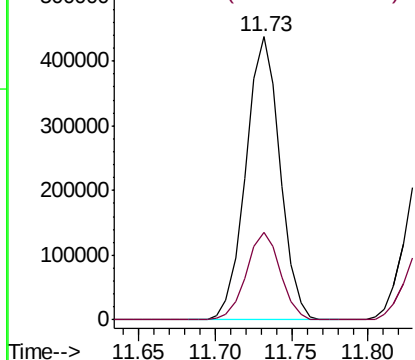


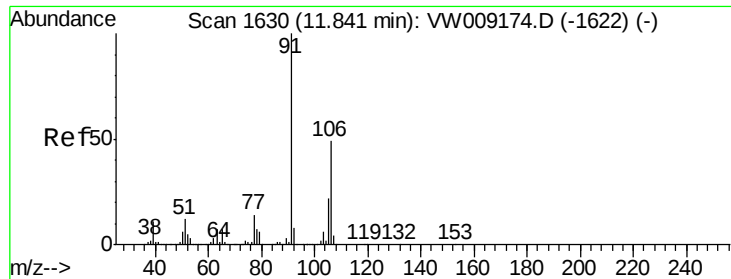
#53
Ethylbenzene
Concen: 24.491 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW009193.D
Acq: 15 Mar 2019 01:47

Tgt Ion: 91 Resp: 678893
Ion Ratio Lower Upper
91 100
106 31.1 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 24.542 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

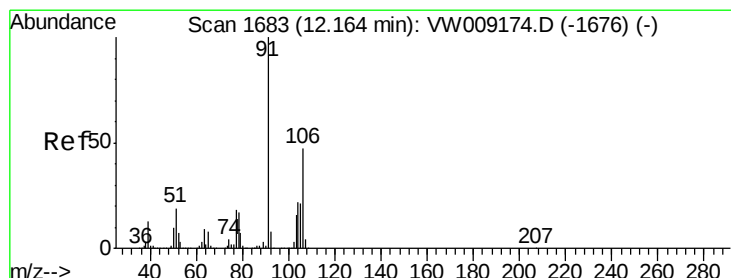
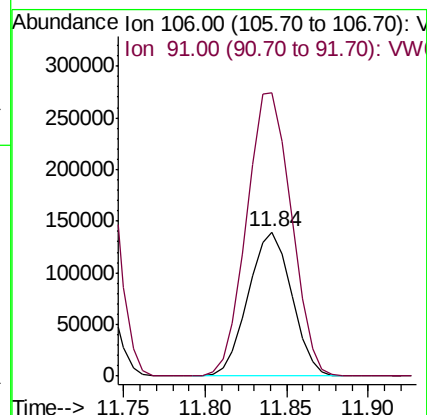
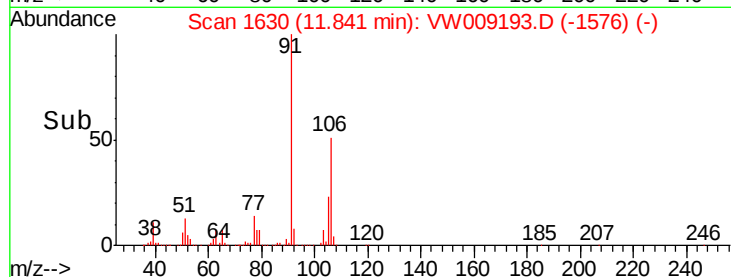
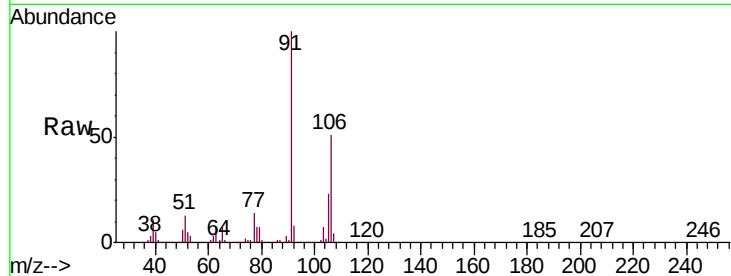
VSTD02508

Tgt Ion:106 Resp: 258451

Ion Ratio Lower Upper

106 100

91 196.0 138.4 257.0



#55

o-xylene

Concen: 24.662 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009193.D

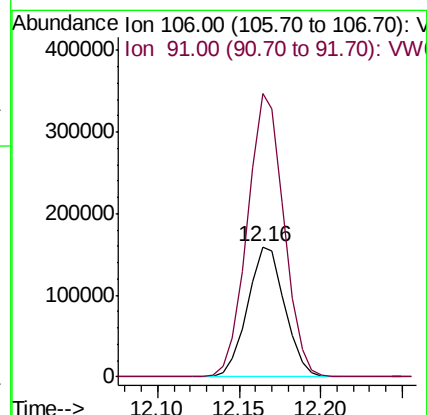
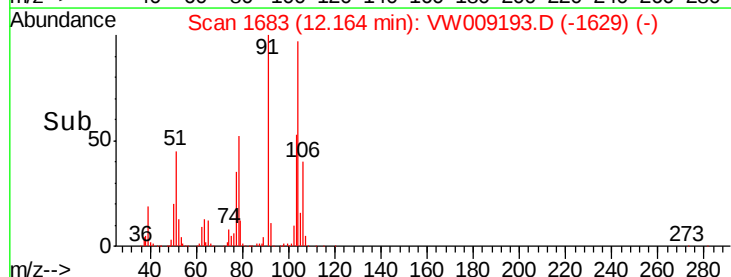
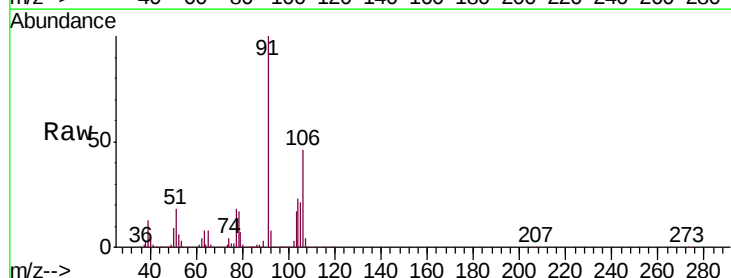
Acq: 15 Mar 2019 01:47

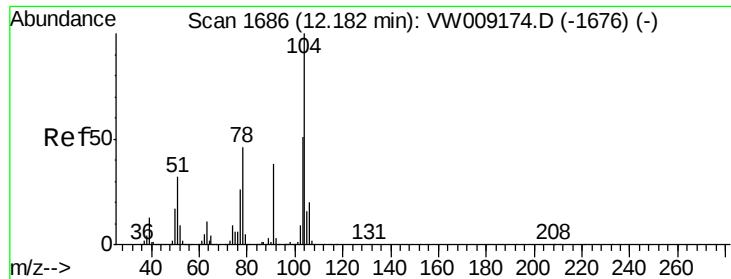
Tgt Ion:106 Resp: 253375

Ion Ratio Lower Upper

106 100

91 218.1 153.2 284.4





#56

Styrene

Concen: 25.197 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

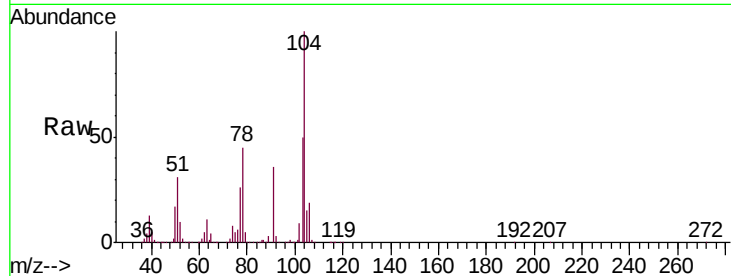
VSTD02508

Tgt Ion:104 Resp: 441692

Ion Ratio Lower Upper

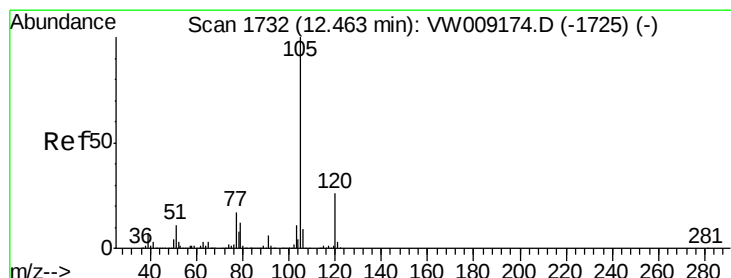
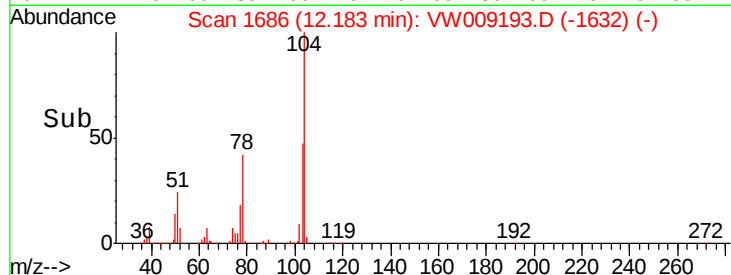
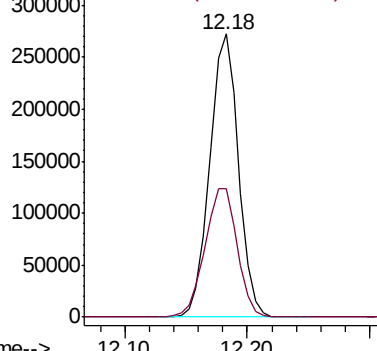
104 100

78 45.3 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V



#57

Isopropylbenzene

Concen: 24.243 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

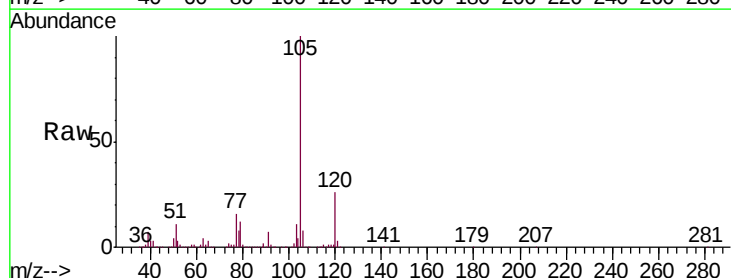
Tgt Ion:105 Resp: 667203

Ion Ratio Lower Upper

105 100

120 26.0 21.3 31.9

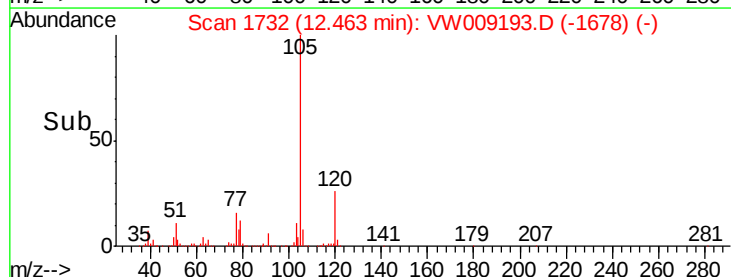
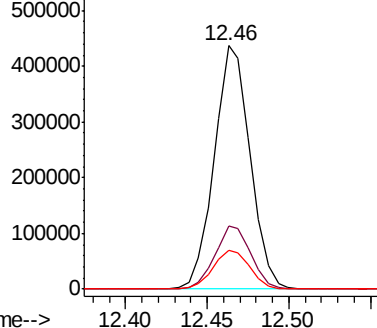
77 16.5 13.1 19.7

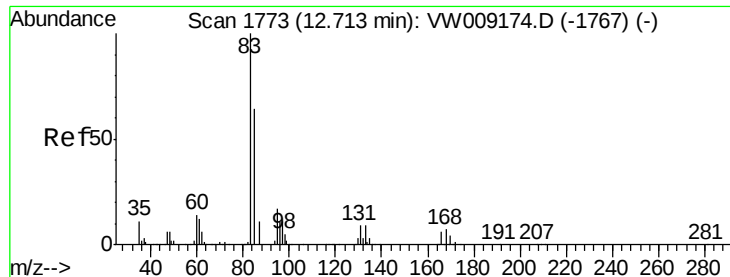


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 23.907 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

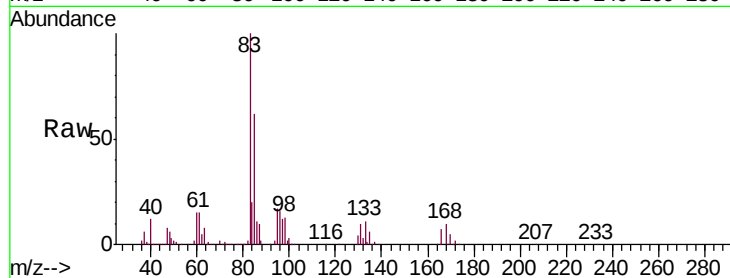
Tgt Ion: 83 Resp: 148893

Ion Ratio Lower Upper

83 100

85 62.0 45.6 84.8

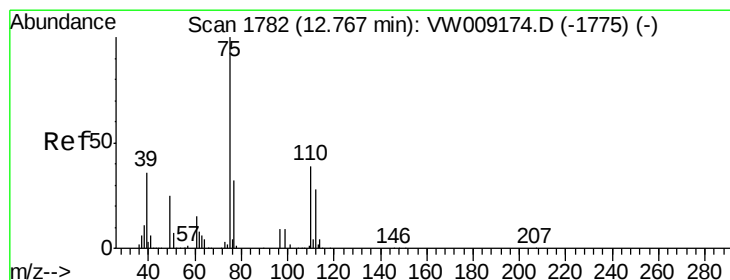
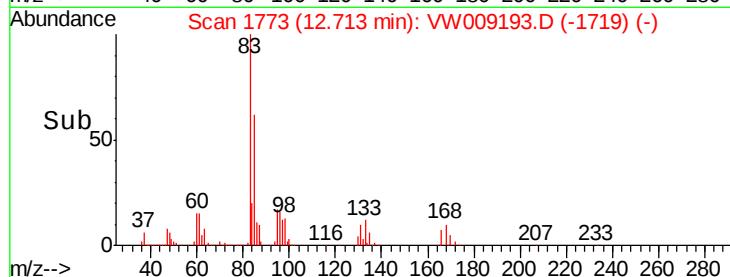
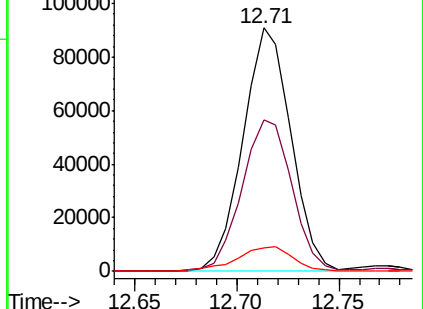
131 9.8 9.2 13.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V



#59

1,2,3-Trichloropropane

Concen: 23.166 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009193.D

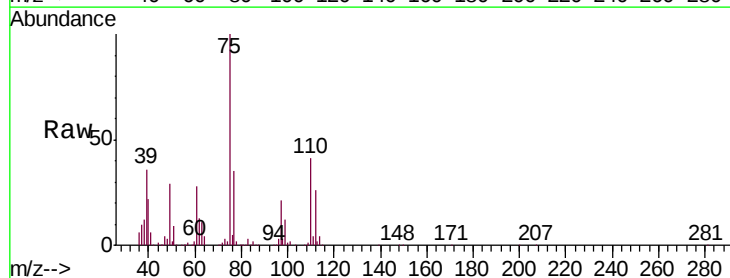
Acq: 15 Mar 2019 01:47

Tgt Ion: 75 Resp: 107070

Ion Ratio Lower Upper

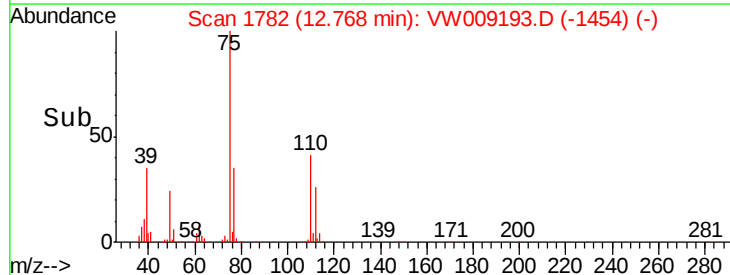
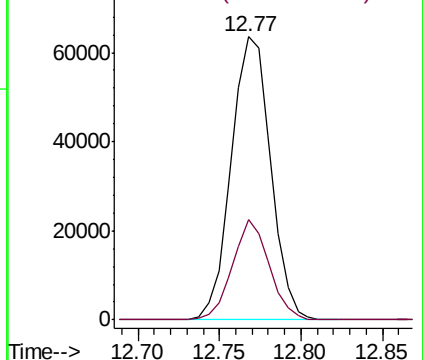
75 100

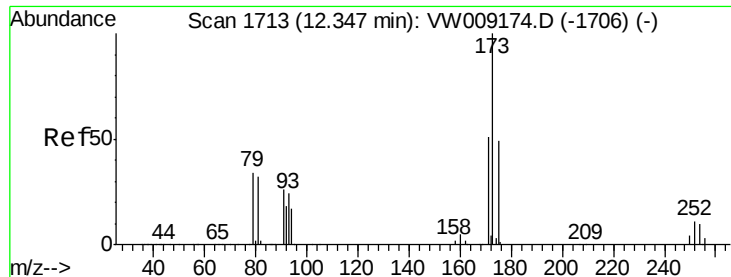
77 33.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#62

Bromoform

Concen: 24.822 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

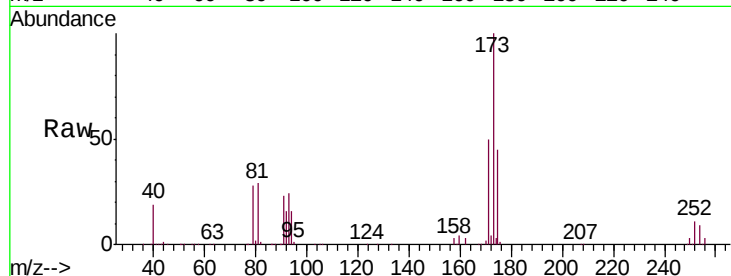
Tgt Ion:173 Resp: 87678

Ion Ratio Lower Upper

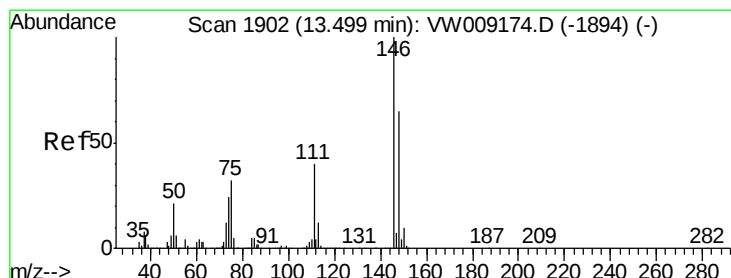
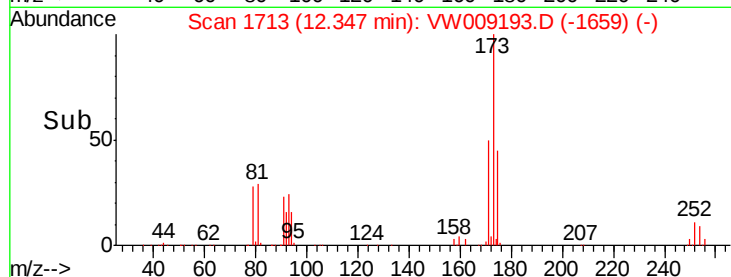
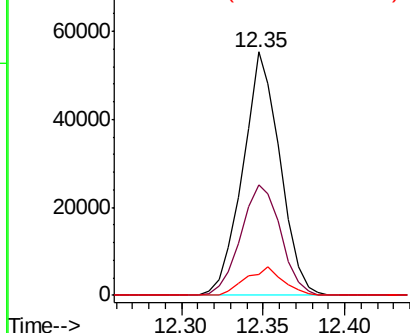
173 100

175 48.8 39.7 59.5

254 11.3 8.5 12.7



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: 24.470 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW009193.D

Acq: 15 Mar 2019 01:47

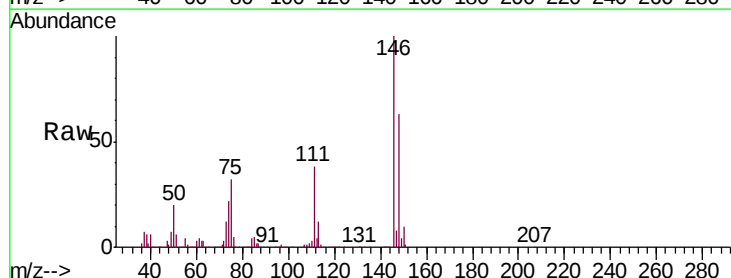
Tgt Ion:146 Resp: 304879

Ion Ratio Lower Upper

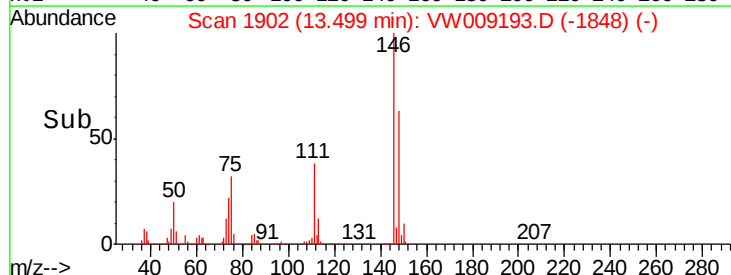
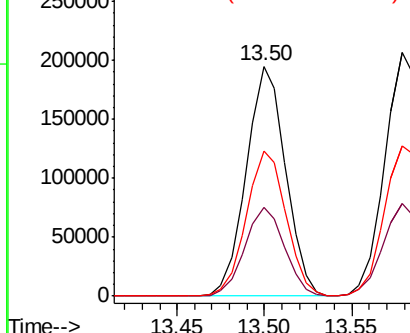
146 100

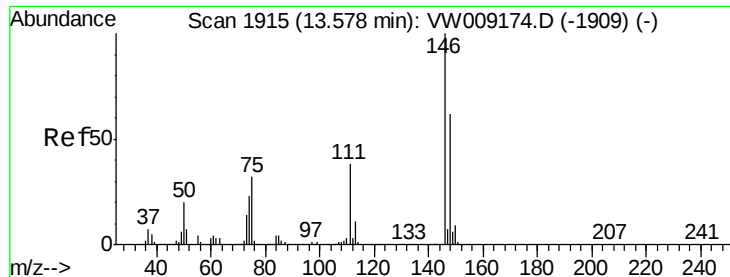
111 38.4 26.9 49.9

148 63.0 45.1 83.7



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

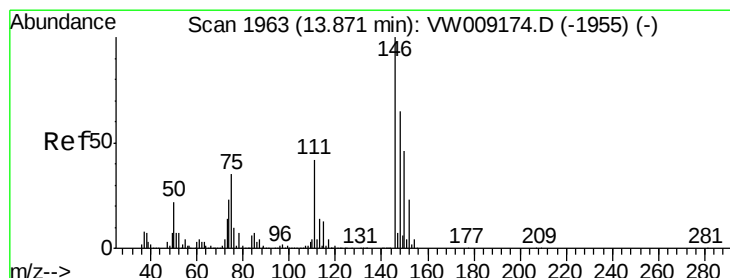
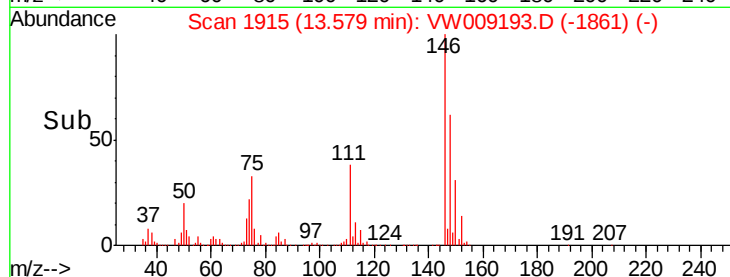
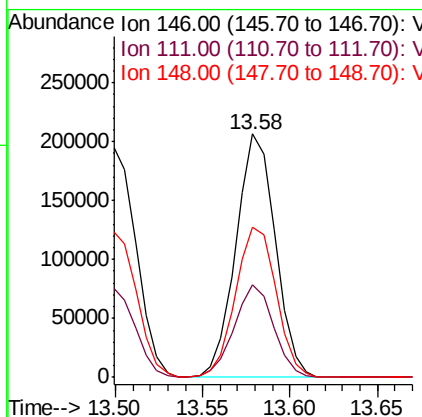
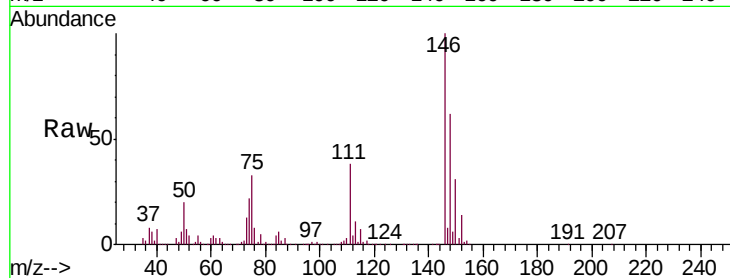




#64
 1,4-Dichlorobenzene
 Concen: 25.203 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

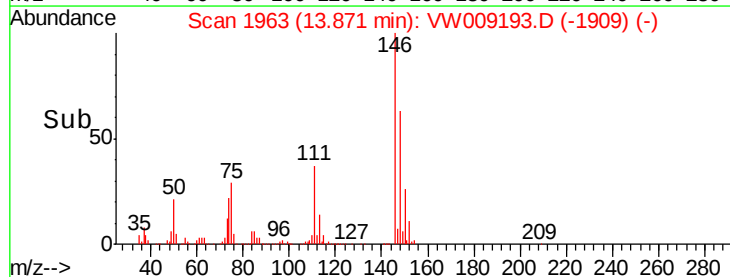
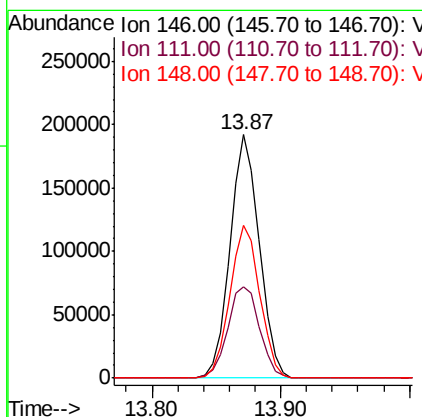
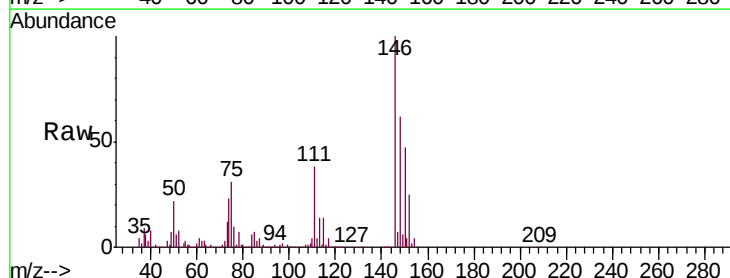
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

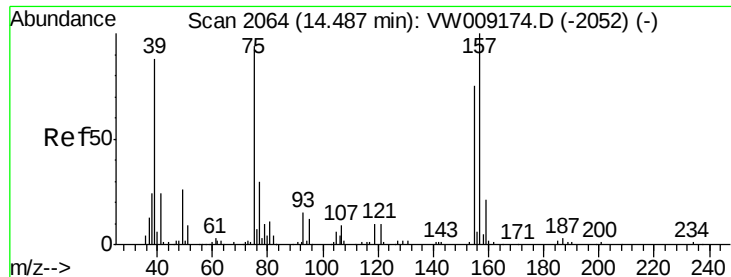
Tgt Ion:146 Resp: 324659
 Ion Ratio Lower Upper
 146 100
 111 37.9 27.8 51.6
 148 61.6 46.3 86.1



#65
 1,2-Dichlorobenzene
 Concen: 25.577 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

Tgt Ion:146 Resp: 303913
 Ion Ratio Lower Upper
 146 100
 111 37.7 33.5 50.3
 148 62.5 50.2 75.2

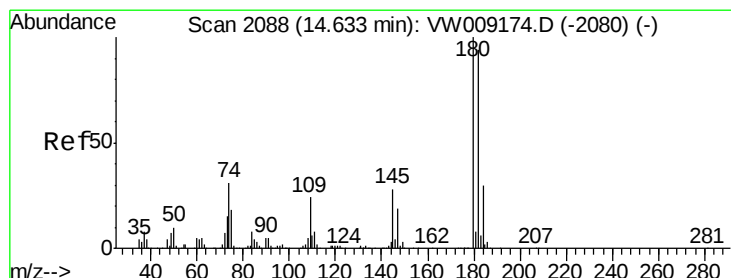
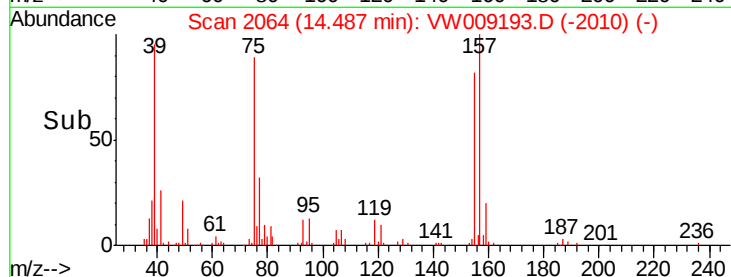
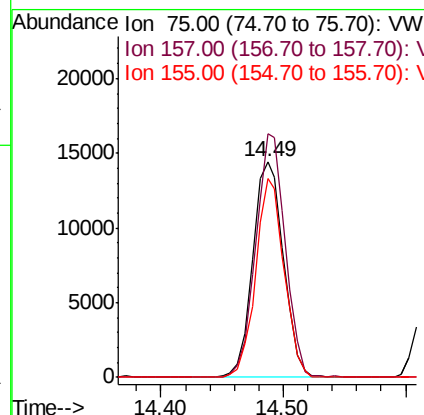
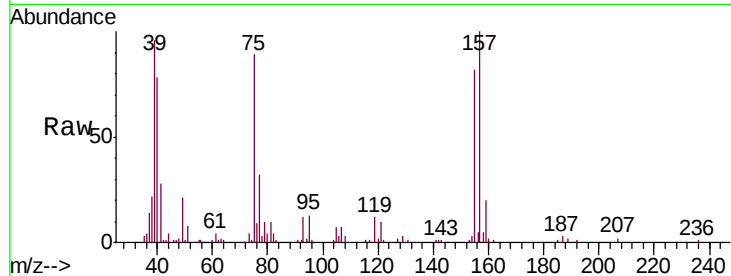




#66
 1,2-Dibromo-3-chloropropane
 Concen: 21.600 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

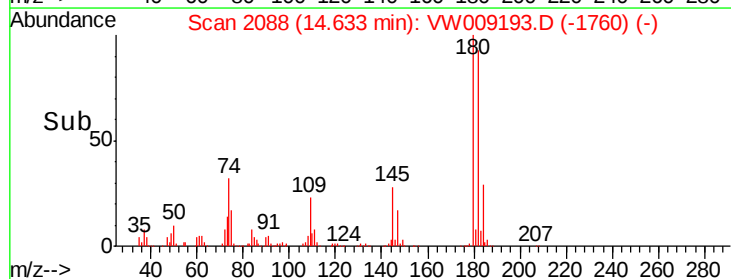
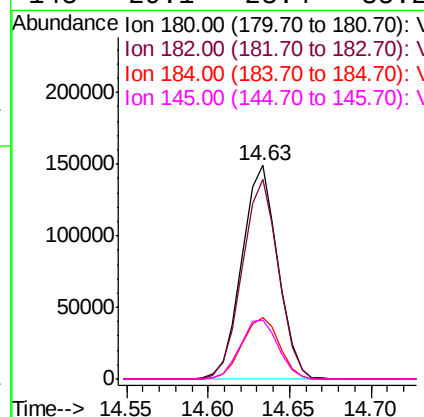
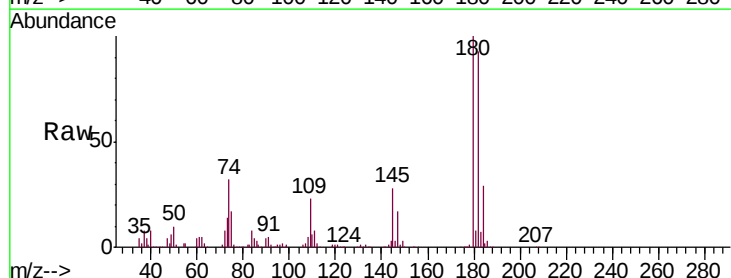
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

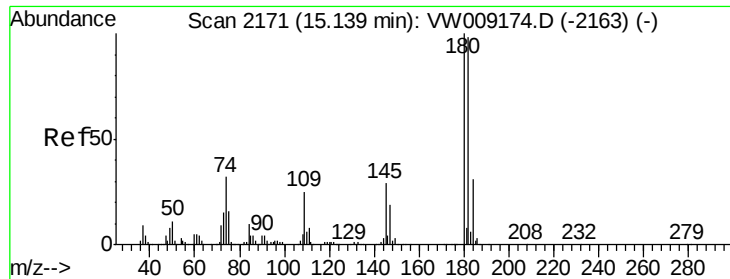
Tgt Ion: 75 Resp: 25154
 Ion Ratio Lower Upper
 75 100
 157 112.7 89.0 133.4
 155 92.0 64.2 96.2



#67
 1,3,5-Trichlorobenzene
 Concen: 23.639 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

Tgt Ion: 180 Resp: 229732
 Ion Ratio Lower Upper
 180 100
 182 93.8 76.1 114.1
 184 30.2 23.8 35.6
 145 29.1 23.4 35.2

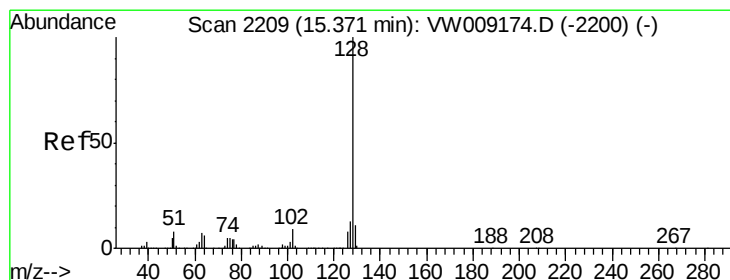
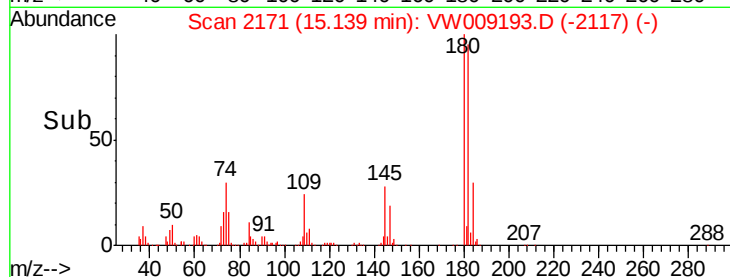
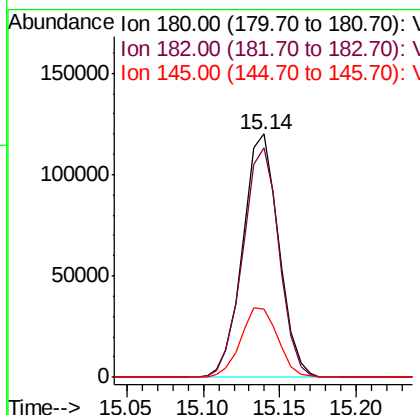
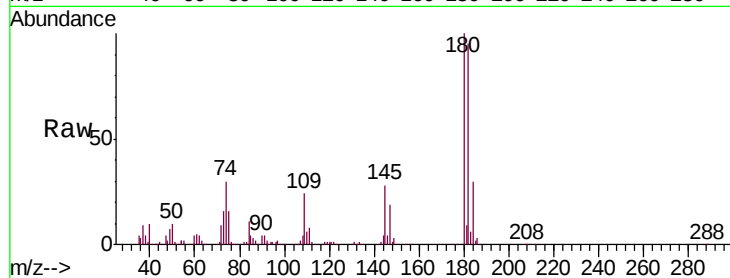




#68
 1,2,4-trichlorobenzene
 Concen: 24.136 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

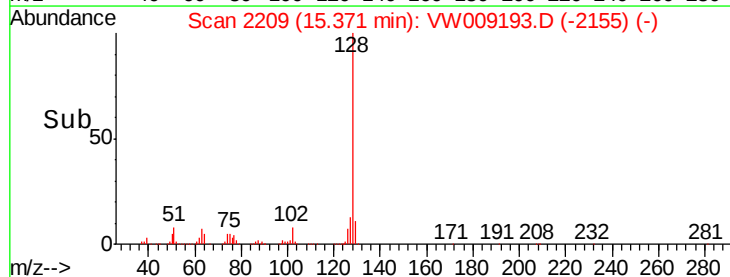
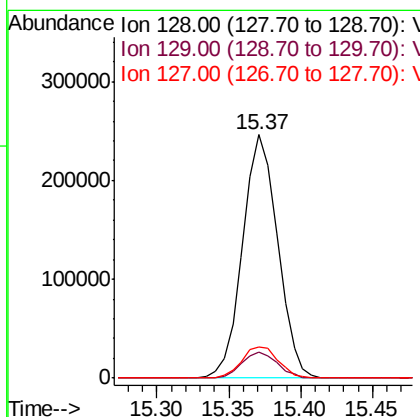
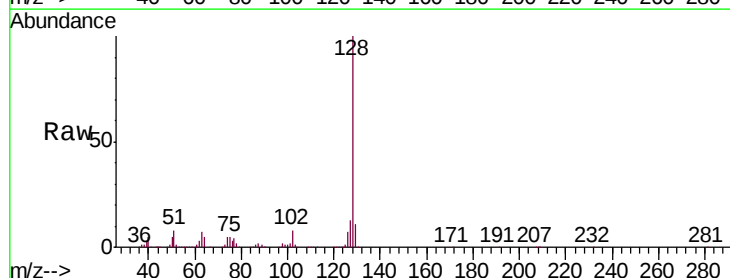
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

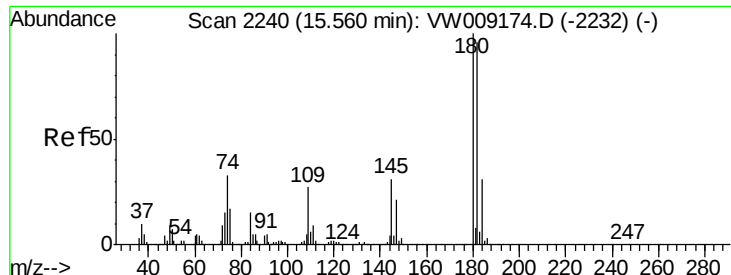
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.5	113.3
145	29.5	24.1	36.1



#69
 Naphthalene
 Concen: 24.546 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.4	11.1	16.7





#70
 1,2,3-Trichlorobenzene
 Concen: 24.713 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.00 min
 Lab File: VW009193.D
 Acq: 15 Mar 2019 01:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

Tgt Ion:	180	Resp:	188950
Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.2	115.8
145	32.0	25.8	38.6

