

Data File : VW008761.D
Acq On : 20 Feb 2019 18:27
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02587

Quant Time: Feb 21 06:48:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022019S.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 20 13:48:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	376472	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	373495	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	202964	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	132998	22.71	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.84%
7) Chloroethane-d5	2.88	69	119231	22.68	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.72%
10) 1,1-Dichloroethene-d2	4.02	63	229533	23.57	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.28%
20) 2-Butanone-d5	7.08	46	104506	59.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	119.68%
24) Chloroform-d	7.65	84	217155	23.85	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.40%
26) 1,2-Dichloroethane-d4	8.31	65	127240	23.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.72%
29) Benzene-d6	8.27	84	429288	23.94	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.76%
33) 1,2-Dichloropropane-d6	9.27	67	124966	23.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.16%
37) Toluene-d8	10.32	98	439723	24.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.96%
38) trans-1,3-Dichloropropene-	10.58	79	63340	24.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.24%
39) 2-Hexanone-d5	10.92	63	84212	58.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.70%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	142180	26.96	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	107.84%
61) 1,2-Dichlorobenzene-d4	13.85	152	179978	24.88	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.52%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	186688	25.814	ug/L	92
3) Chloromethane	2.21	50	185001	24.748	ug/L	95
5) Vinyl chloride	2.36	62	190819	24.898	ug/L	95
6) Bromomethane	2.77	94	116977	23.019	ug/L	97
8) Chloroethane	2.92	64	115963	22.598	ug/L	96
9) Trichlorofluoromethane	3.26	101	230822	25.185	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	134407	24.832	ug/L	98
12) 1,1-Dichloroethene	4.04	96	115524	24.601	ug/L	86
13) Acetone	4.13	43	105198	63.493	ug/L	98
14) Carbon disulfide	4.38	76	406364	25.042	ug/L	100
15) Methyl Acetate	4.67	43	90185	27.291	ug/L	92
16) Methylene chloride	4.92	84	137712	22.622	ug/L	91
17) Methyl tert-butyl Ether	5.43	73	318647	24.128	ug/L	97
18) trans-1,2-Dichloroethene	5.43	96	126817	24.529	ug/L	94
19) 1,1-Dichloroethane	6.22	63	212809	24.243	ug/L	94
21) 2-Butanone	7.17	43	137092	59.134	ug/L	93
22) cis-1,2-Dichloroethene	7.17	96	132215	23.844	ug/L	93

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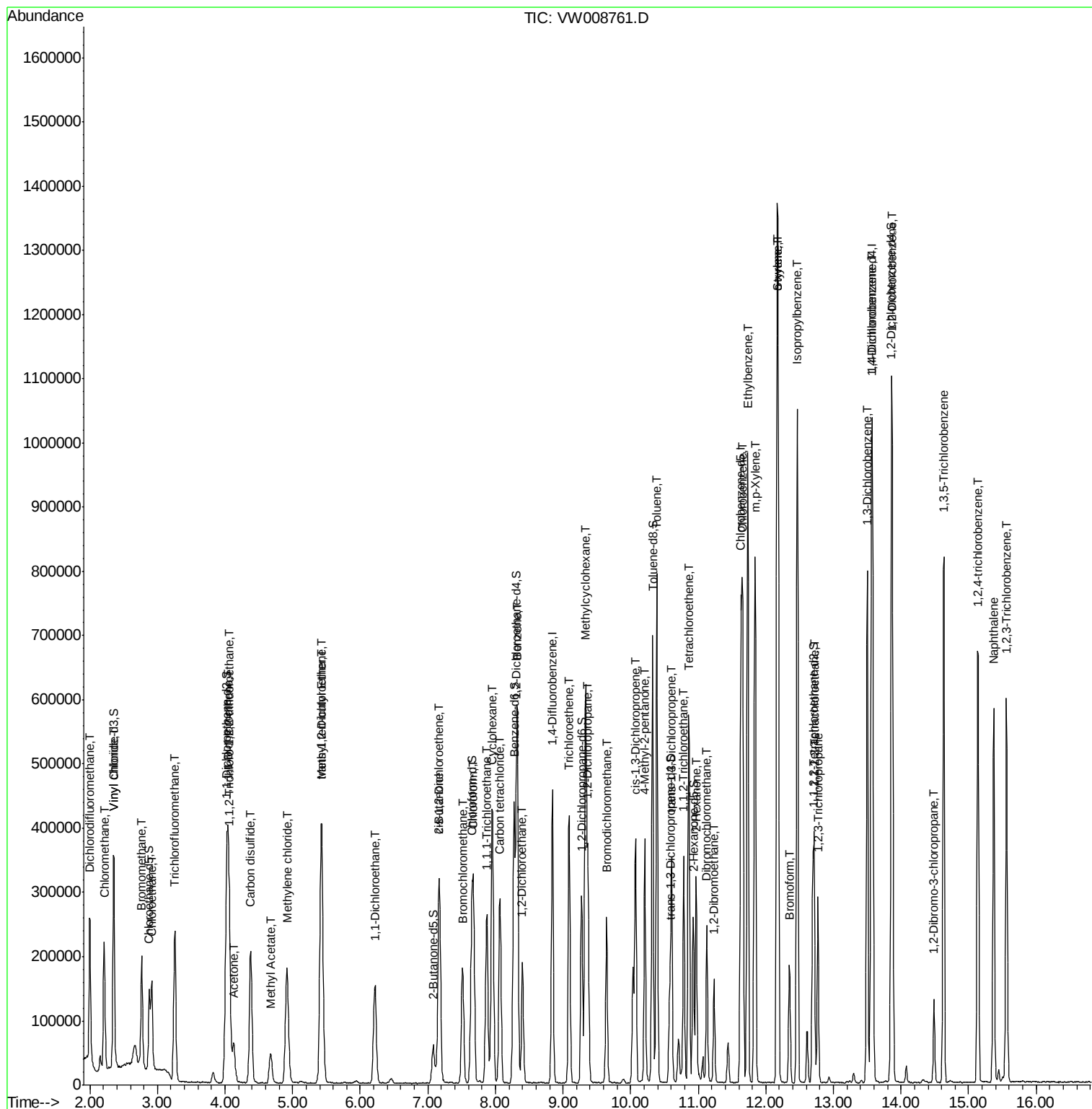
23) Bromochloromethane	7.51	128	60151	23.708	ug/L #	80
25) Chloroform	7.67	83	222582	24.087	ug/L	100
27) 1,2-Dichloroethane	8.40	62	162241	24.142	ug/L #	92
30) Cyclohexane	7.96	56	218449	24.849	ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	210324	24.392	ug/L	98
32) Carbon tetrachloride	8.07	117	191412	24.290	ug/L	97
34) Benzene	8.32	78	492505	24.307	ug/L	100
35) Trichloroethene	9.09	95	132333	24.197	ug/L	96
36) Methylcyclohexane	9.34	83	239717	24.702	ug/L	97
40) 1,2-Dichloropropane	9.37	63	119149	23.805	ug/L	98
41) Bromodichloromethane	9.65	83	162698	23.906	ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	193008	23.773	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	248035	54.873	ug/L	95
44) Toluene	10.39	91	578063	24.816	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	176244	24.310	ug/L	96
46) 1,1,2-Trichloroethane	10.79	97	101854	24.339	ug/L	98
47) Tetrachloroethene	10.87	164	121466	24.396	ug/L	92
49) 2-Hexanone	10.97	43	193884	54.684	ug/L	93
50) Dibromochloromethane	11.13	129	124122	24.466	ug/L	99
51) 1,2-Dibromoethane	11.24	107	105381	24.895	ug/L	100
52) Chlorobenzene	11.66	112	377530	24.081	ug/L	99
53) Ethylbenzene	11.73	91	663811	24.526	ug/L	98
54) m,p-Xylene	11.84	106	262059	24.623	ug/L	93
55) o-xylene	12.16	106	247943	24.217	ug/L	92
56) Styrene	12.18	104	419701	24.442	ug/L	92
57) Isopropylbenzene	12.46	105	666687	24.409	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	144409	25.721	ug/L	93
59) 1,2,3-Trichloropropane	12.77	75	108919	26.239	ug/L	98
62) Bromoform	12.35	173	78421	24.957	ug/L #	99
63) 1,3-Dichlorobenzene	13.50	146	321818	24.294	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	326148	24.234	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	299310	24.393	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.49	75	29400	26.985	ug/L	95
67) 1,3,5-Trichlorobenzene	14.63	180	251962	24.157	ug/L	97
68) 1,2,4-trichlorobenzene	15.14	180	214797	23.909	ug/L	97
69) Naphthalene	15.37	128	489686	26.476	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	200794	24.322	ug/L	97

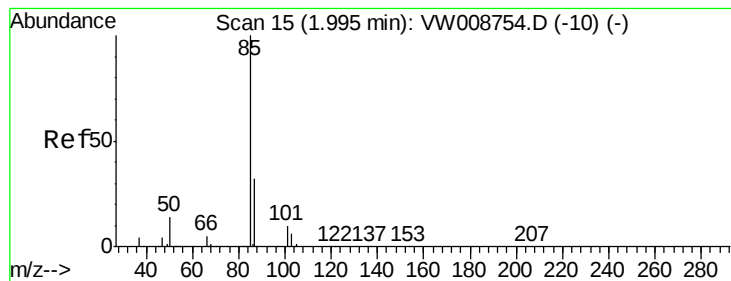
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 25.814 ug/L

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

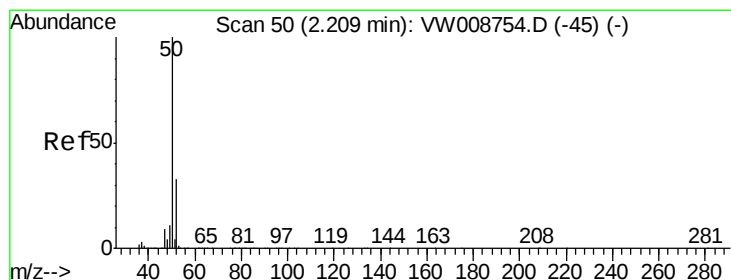
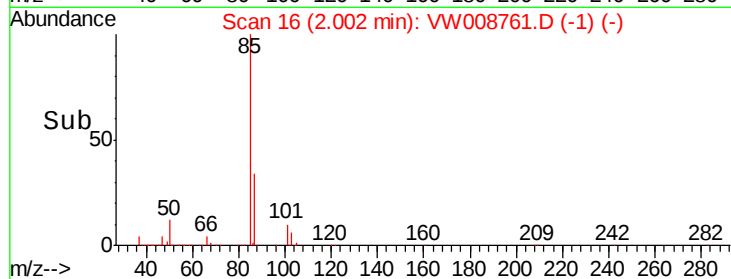
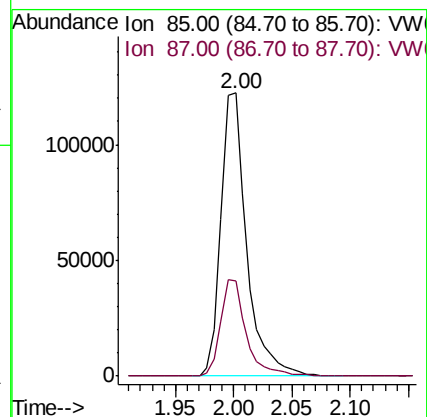
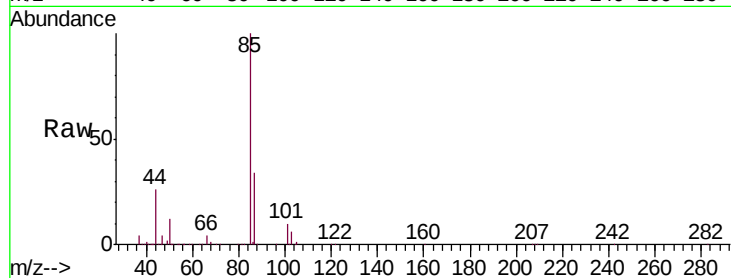
VSTD02587

Tgt Ion: 85 Resp: 186688

Ion Ratio Lower Upper

85 100

87 33.6 20.6 38.4



#3

Chloromethane

Concen: 24.748 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW008761.D

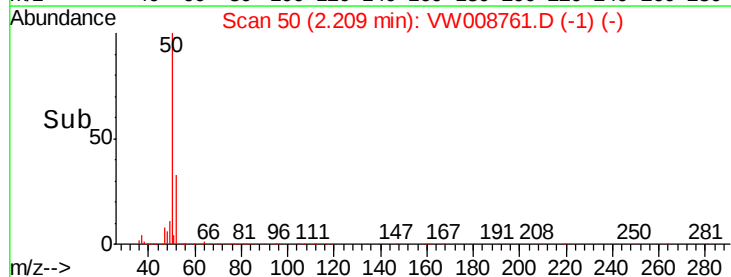
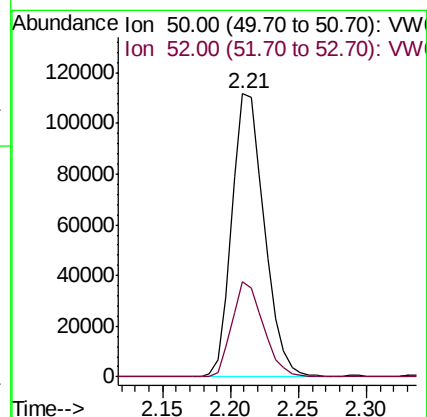
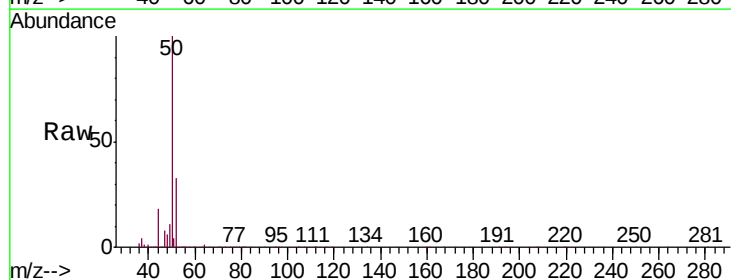
Acq: 20 Feb 2019 18:27

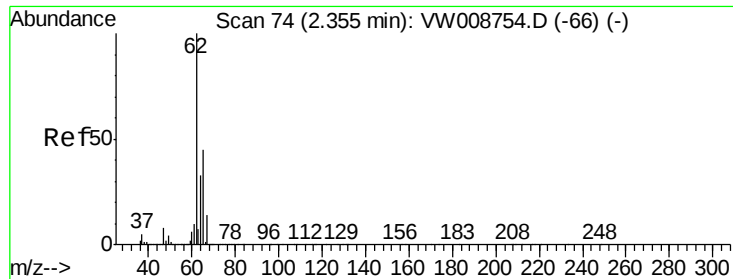
Tgt Ion: 50 Resp: 185001

Ion Ratio Lower Upper

50 100

52 33.5 21.4 39.8





#5

Vinyl chloride

Concen: 24.898 ug/L

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

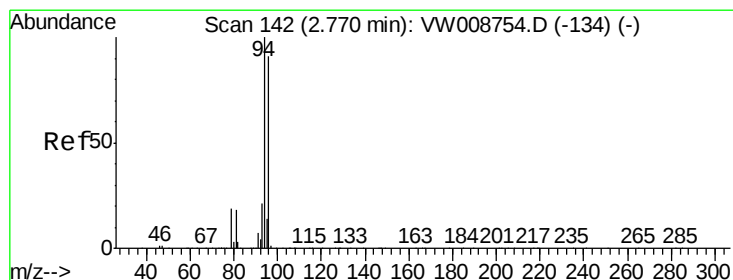
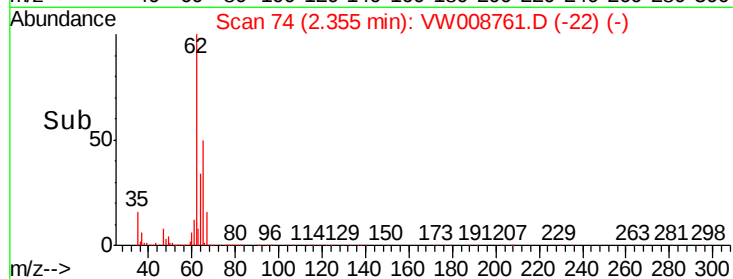
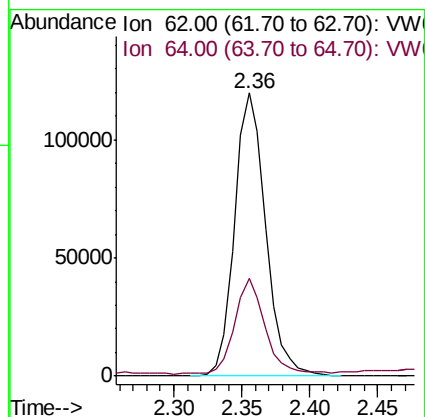
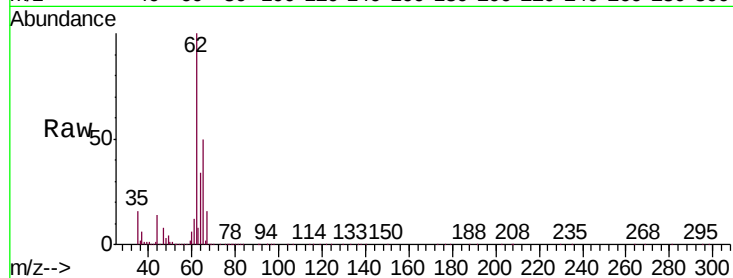
VSTD02587

Tgt Ion: 62 Resp: 190819

Ion Ratio Lower Upper

62 100

64 34.4 22.0 41.0



#6

Bromomethane

Concen: 23.019 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW008761.D

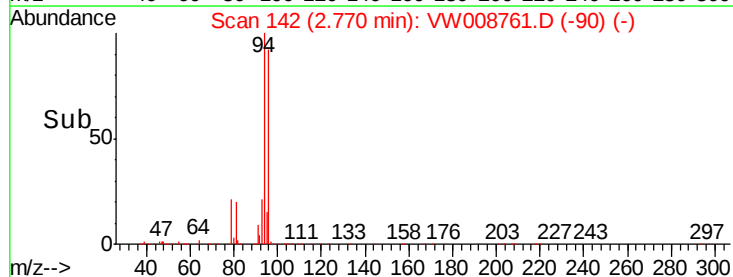
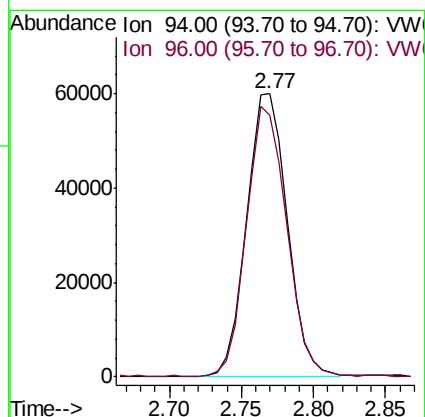
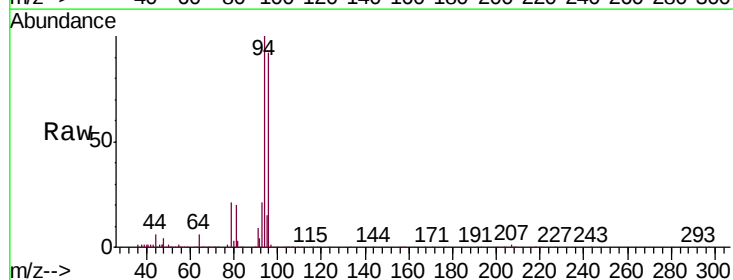
Acq: 20 Feb 2019 18:27

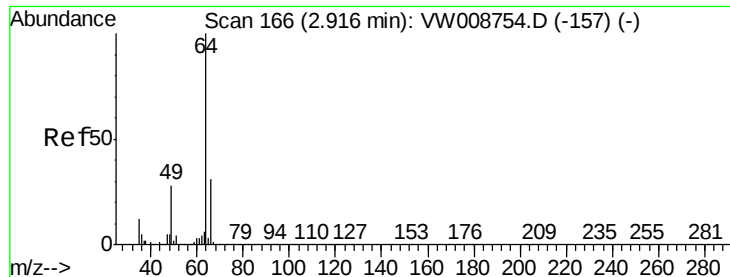
Tgt Ion: 94 Resp: 116977

Ion Ratio Lower Upper

94 100

96 94.9 9.2 175.4





#8

Chloroethane

Concen: 22.598 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

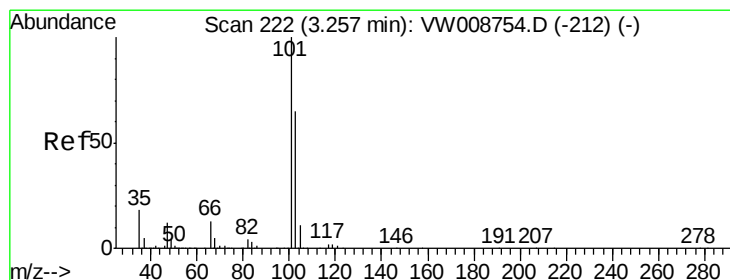
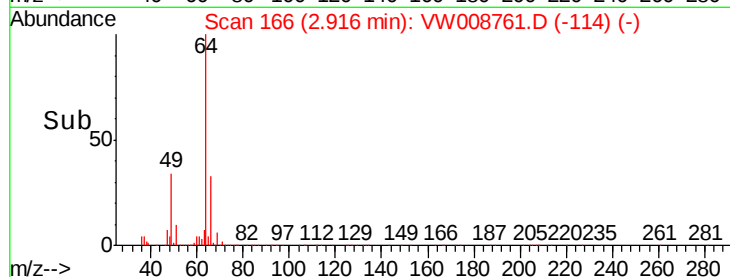
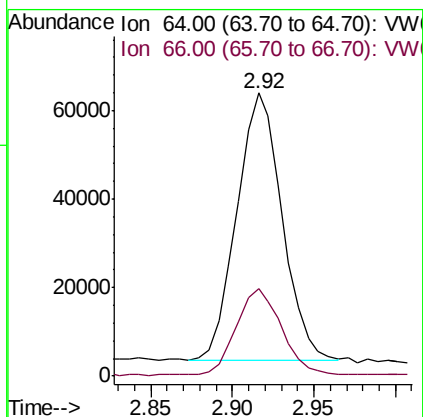
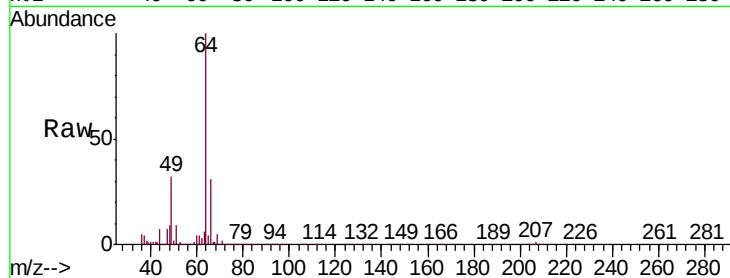
VSTD02587

Tgt Ion: 64 Resp: 115963

Ion Ratio Lower Upper

64 100

66 30.8 23.3 43.3



#9

Trichlorofluoromethane

Concen: 25.185 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW008761.D

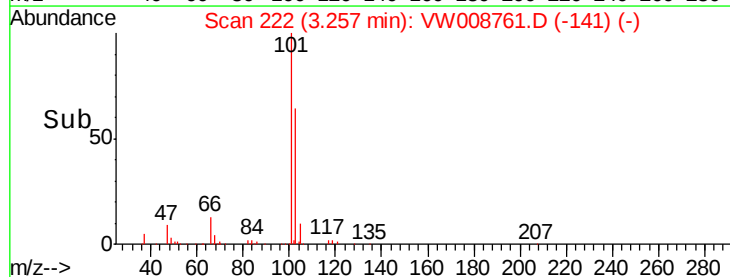
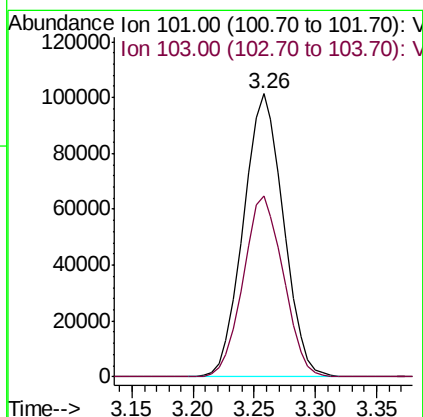
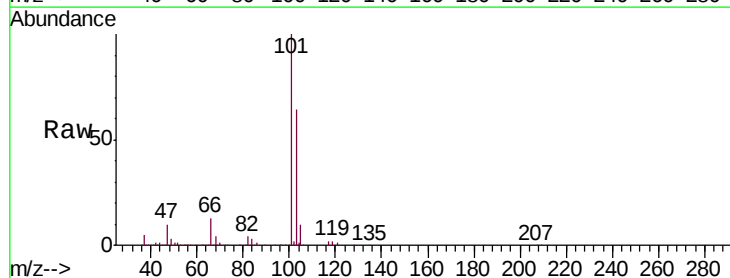
Acq: 20 Feb 2019 18:27

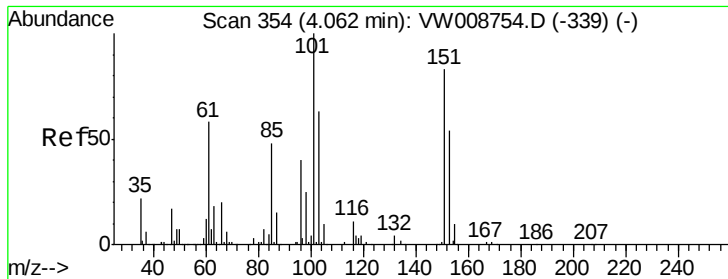
Tgt Ion: 101 Resp: 230822

Ion Ratio Lower Upper

101 100

103 64.0 44.7 83.1





#11

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

Concen: 24.832 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

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ClientSampleId :

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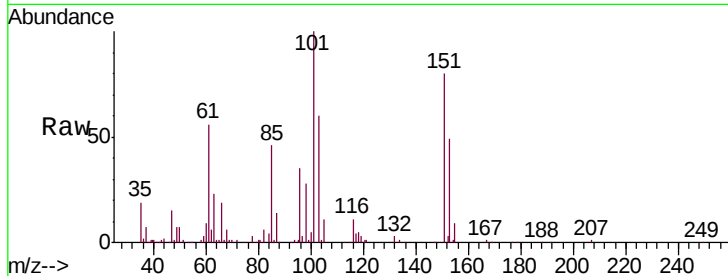
Tgt Ion:101 Resp: 134407

Ion Ratio Lower Upper

101 100

85 43.2 33.4 50.2

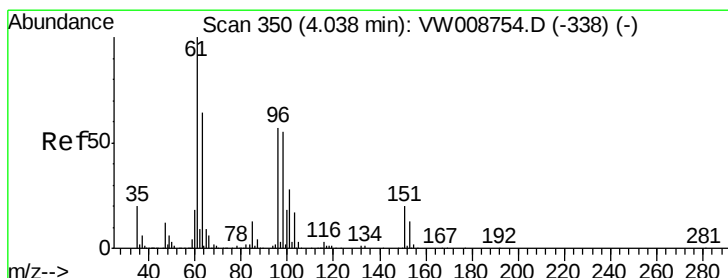
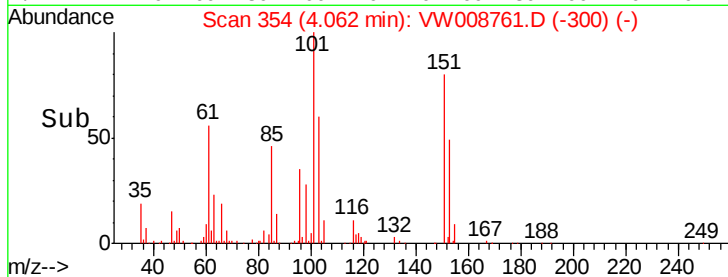
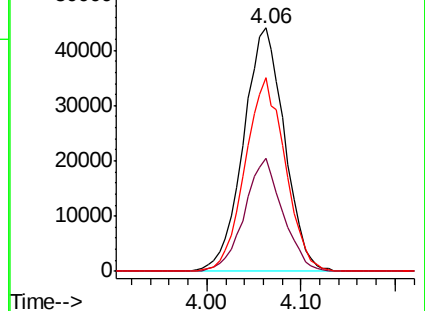
151 77.7 63.2 94.8



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: 24.601 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

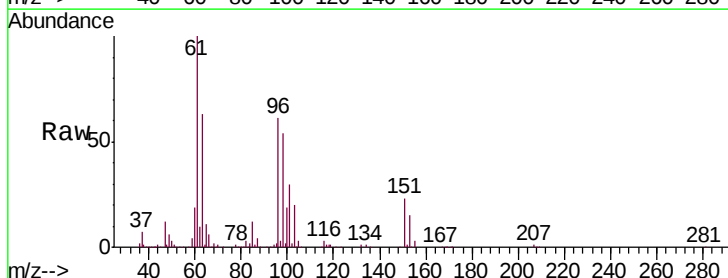
Tgt Ion: 96 Resp: 115524

Ion Ratio Lower Upper

96 100

61 163.3 120.3 223.3

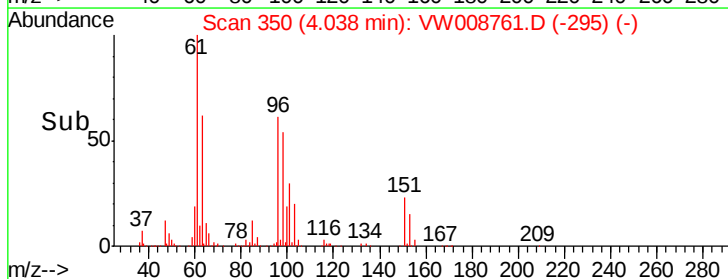
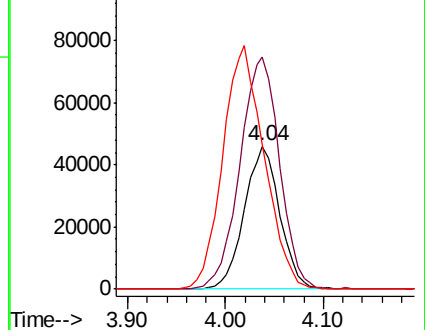
63 102.1 91.6 170.0

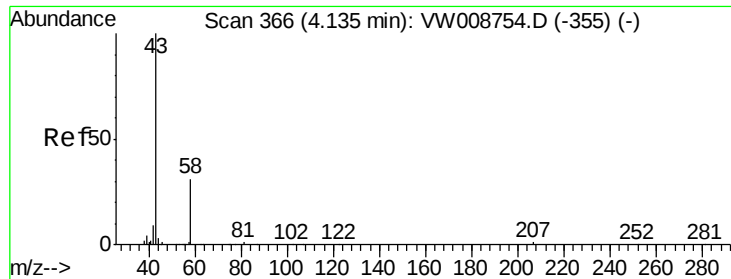


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

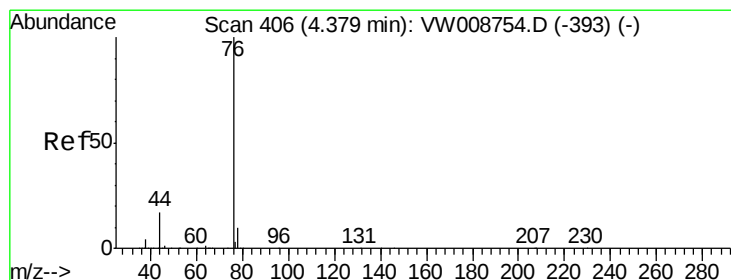
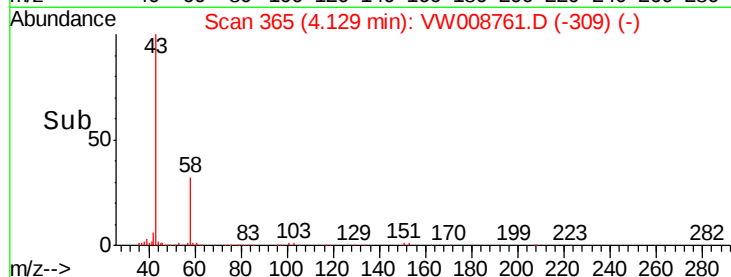
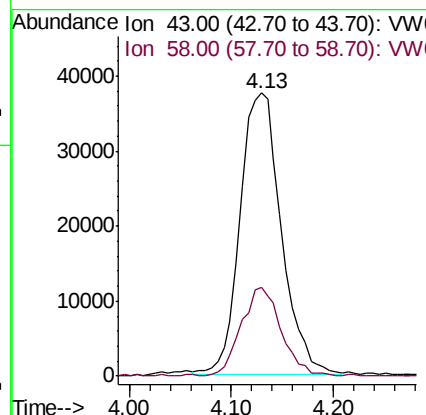
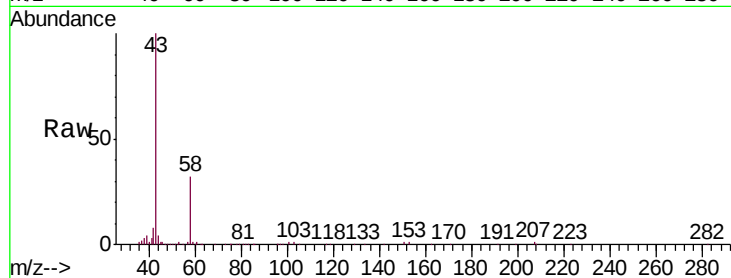




#13
Acetone
Concen: 63.493 ug/L
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW008761.D
Acq: 20 Feb 2019 18:27

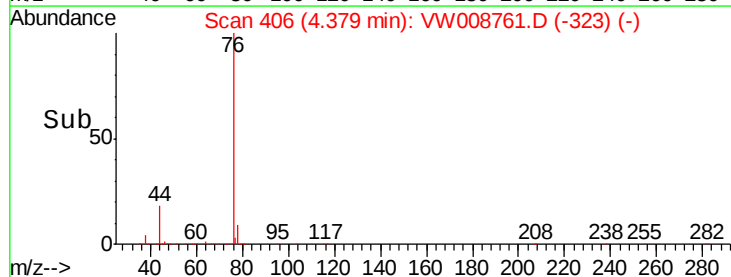
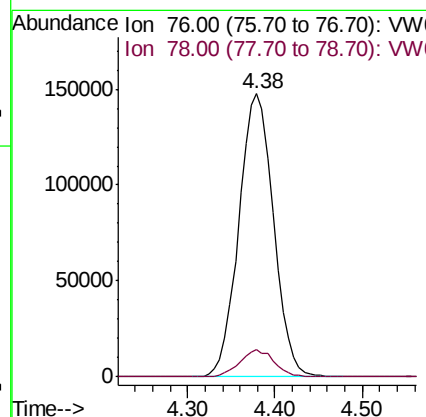
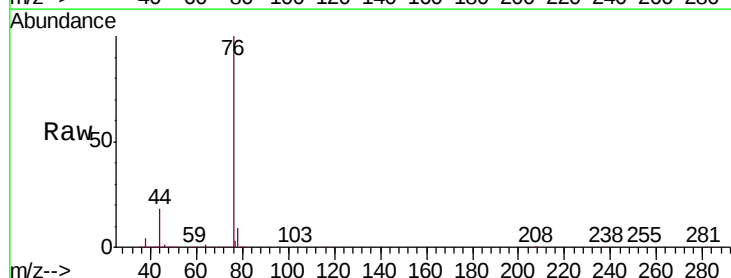
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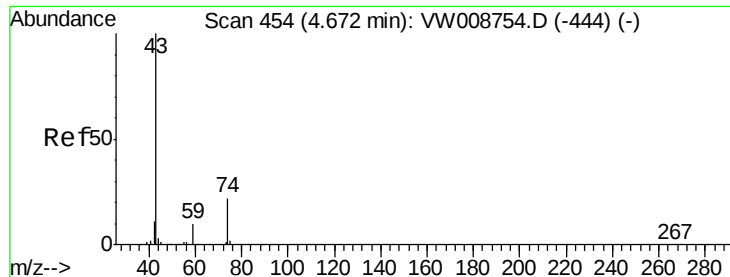
Tgt Ion: 43 Resp: 105198
Ion Ratio Lower Upper
43 100
58 30.6 0.0 58.6



#14
Carbon disulfide
Concen: 25.042 ug/L
RT: 4.38 min Scan# 406
Delta R.T. 0.01 min
Lab File: VW008761.D
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Tgt Ion: 76 Resp: 406364
Ion Ratio Lower Upper
76 100
78 9.5 7.5 11.3





#15

Methyl Acetate

Concen: 27.291 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

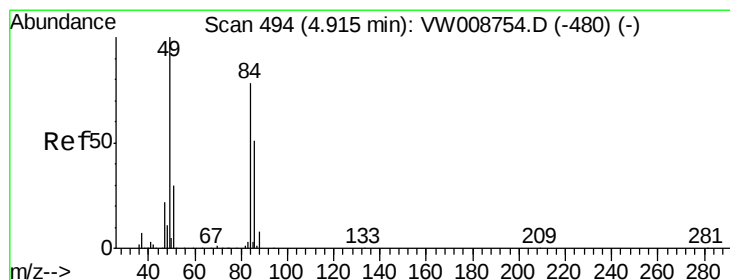
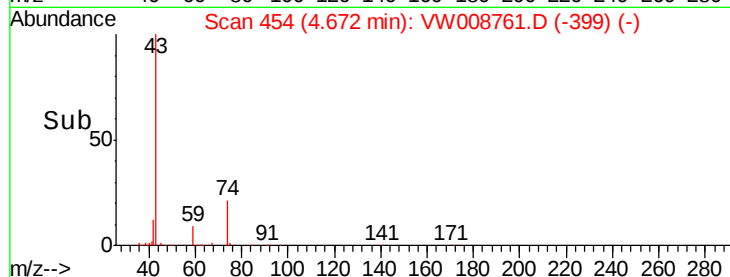
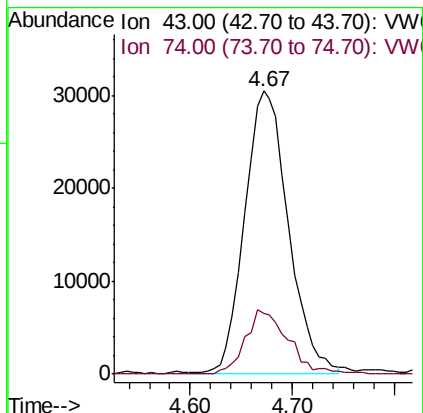
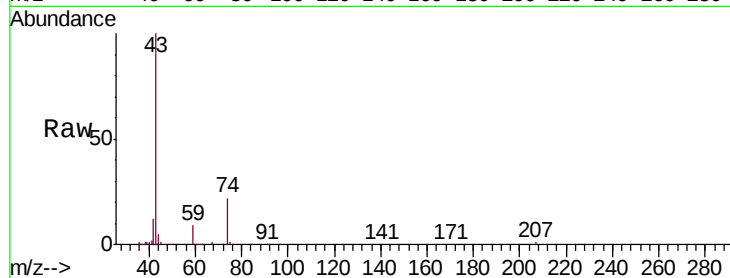
VSTD02587

Tgt Ion: 43 Resp: 90185

Ion Ratio Lower Upper

43 100

74 21.4 20.2 30.2



#16

Methylene chloride

Concen: 22.622 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

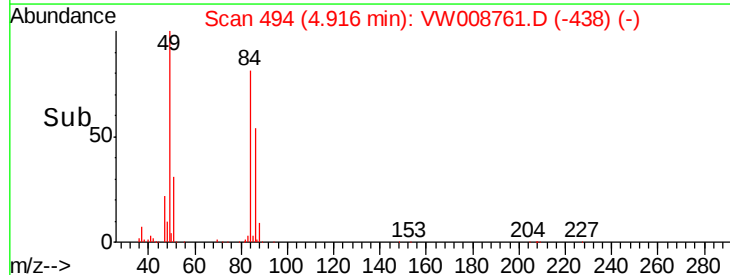
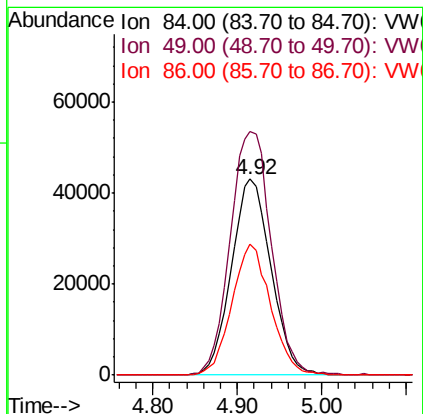
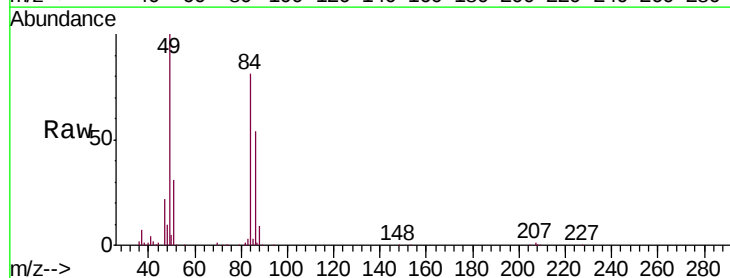
Tgt Ion: 84 Resp: 137712

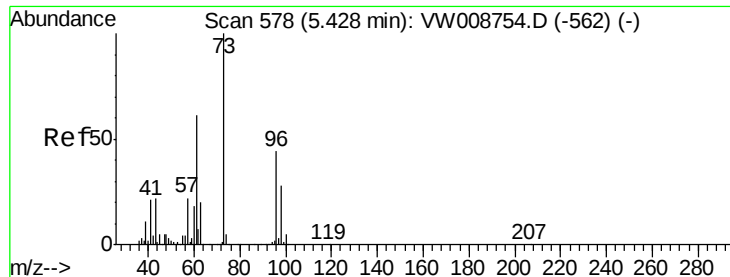
Ion Ratio Lower Upper

84 100

49 124.2 79.2 147.0

86 66.5 43.2 80.2

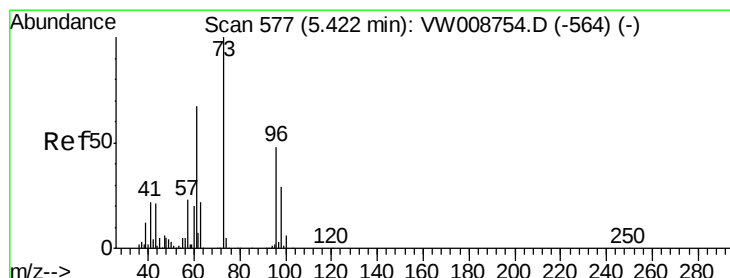
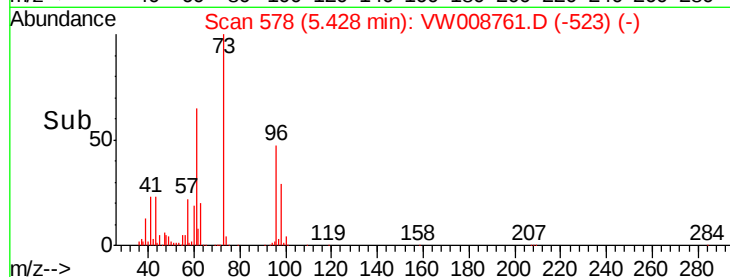
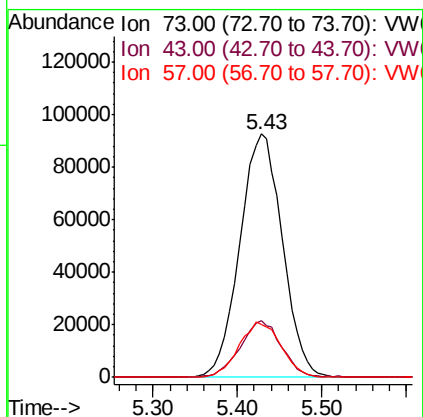
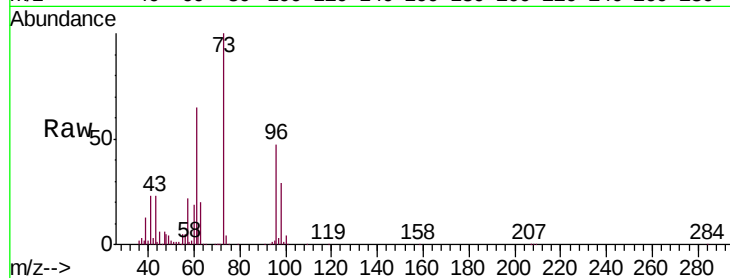




#17
Methyl tert-butyl Ether
Concen: 24.128 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW008761.D
Acq: 20 Feb 2019 18:27

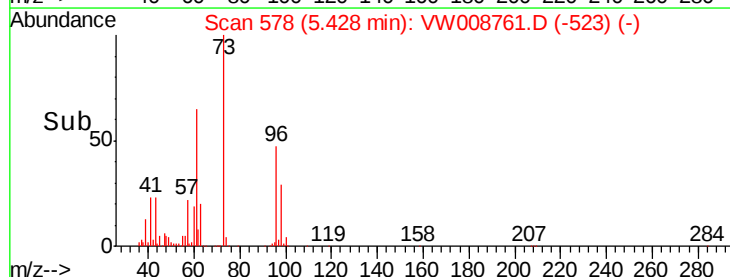
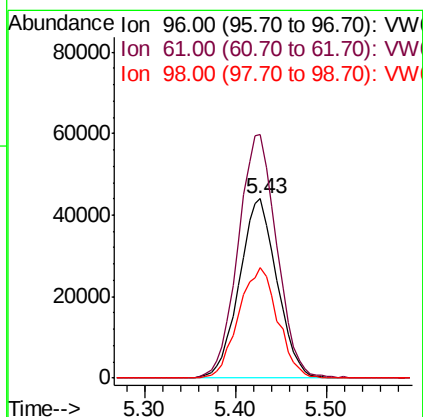
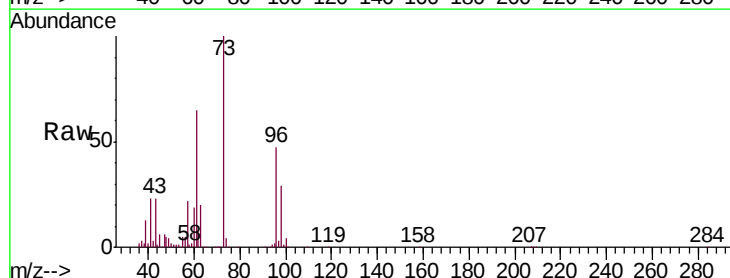
Instrument :
MSVOA_W
ClientSampleId :
VSTD02587

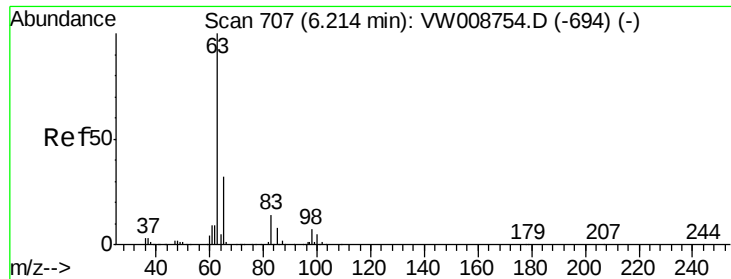
Tgt Ion: 73 Resp: 318647
Ion Ratio Lower Upper
73 100
43 22.3 18.5 27.7
57 22.4 16.4 24.6



#18
trans-1,2-Dichloroethene
Concen: 24.529 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW008761.D
Acq: 20 Feb 2019 18:27

Tgt Ion: 96 Resp: 126817
Ion Ratio Lower Upper
96 100
61 136.0 91.4 169.8
98 61.9 48.0 89.2

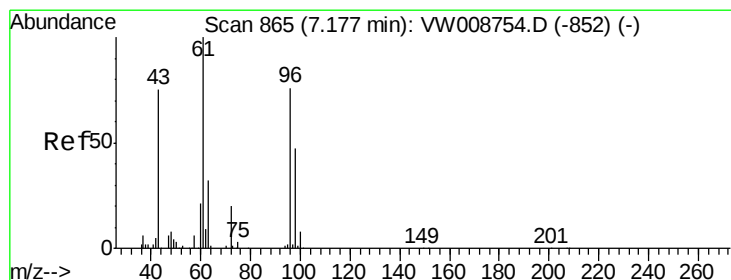
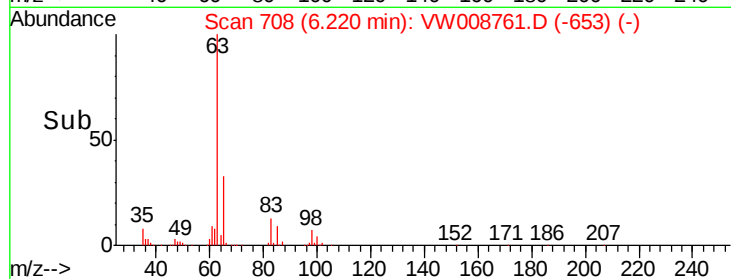
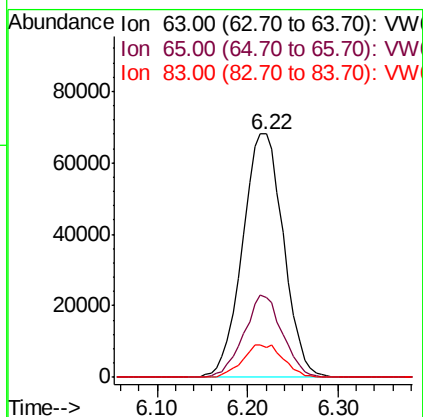
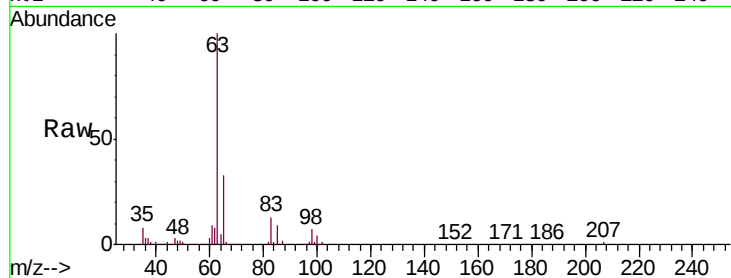




#19
 1,1-Dichloroethane
 Concen: 24.243 ug/L
 RT: 6.22 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VW008761.D
 Acq: 20 Feb 2019 18:27

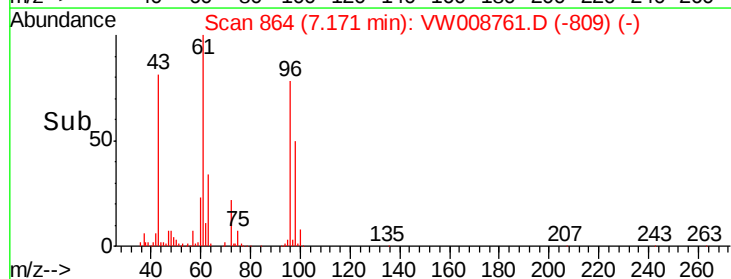
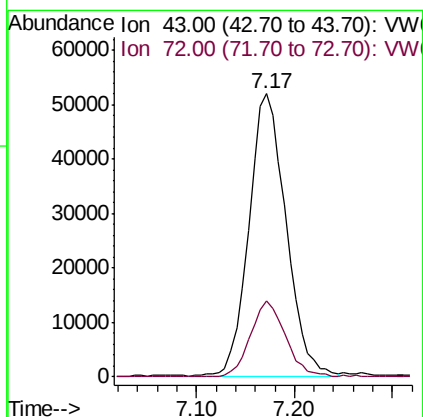
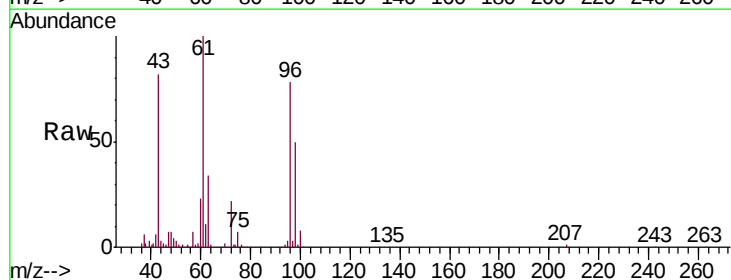
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

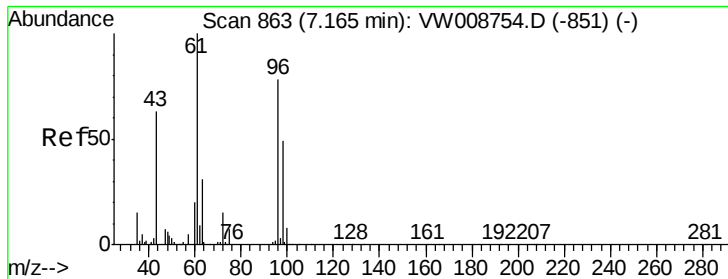
Tgt Ion: 63 Resp: 212809
 Ion Ratio Lower Upper
 63 100
 65 32.9 20.6 38.4
 83 12.5 10.0 18.6



#21
 2-Butanone
 Concen: 59.134 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW008761.D
 Acq: 20 Feb 2019 18:27

Tgt Ion: 43 Resp: 137092
 Ion Ratio Lower Upper
 43 100
 72 25.4 14.4 43.4



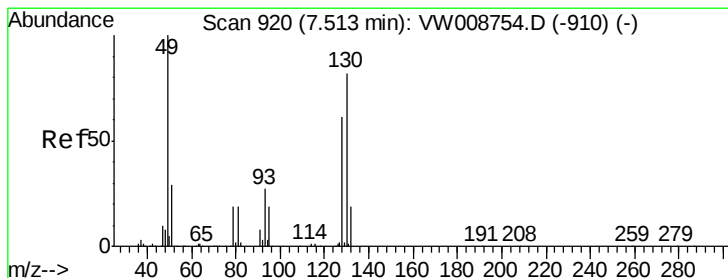
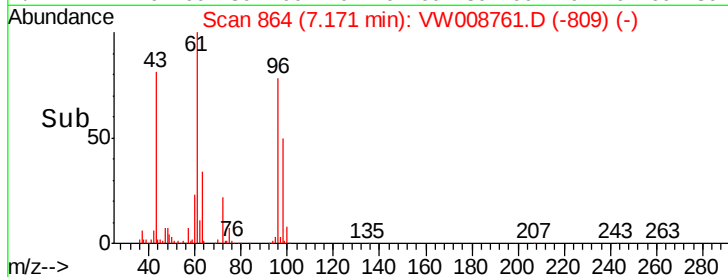
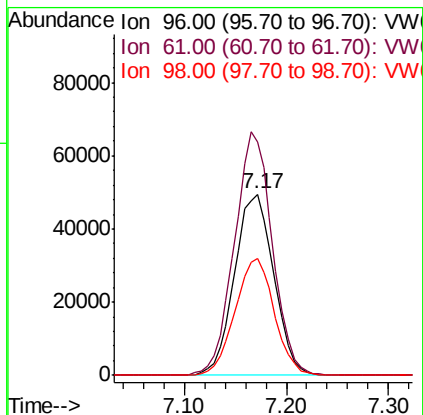
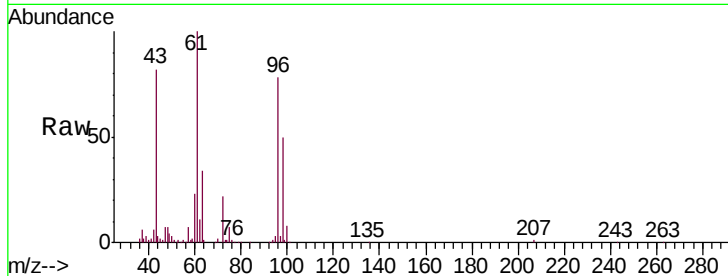


#22

cis-1,2-Dichloroethene
 Concen: 23.844 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW008761.D
 Acq: 20 Feb 2019 18:27

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

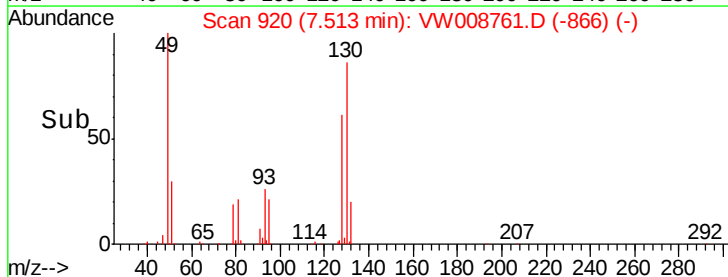
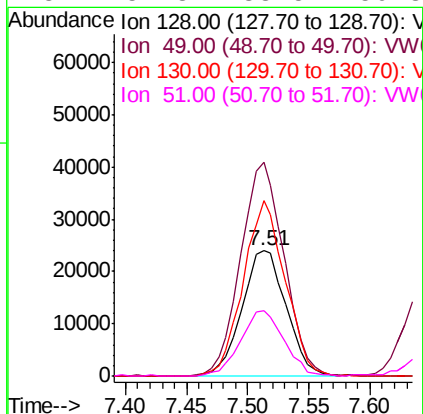
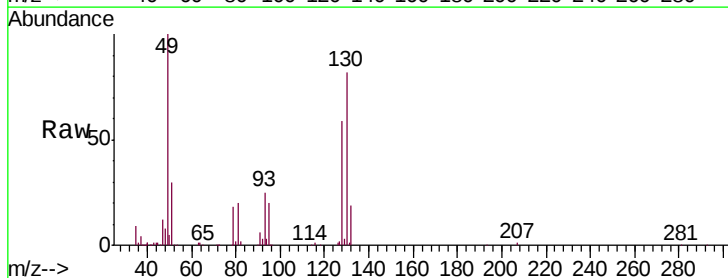
Tgt Ion: 96 Resp: 132215
 Ion Ratio Lower Upper
 96 100
 61 128.6 83.4 155.0
 98 64.3 42.3 78.5

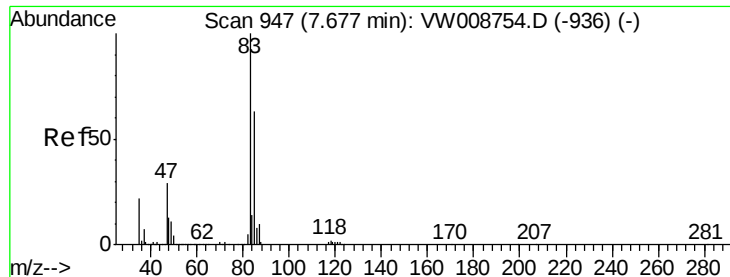


#23

Bromochloromethane
 Concen: 23.708 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VW008761.D
 Acq: 20 Feb 2019 18:27

Tgt Ion: 128 Resp: 60151
 Ion Ratio Lower Upper
 128 100
 49 170.5 96.9 180.1
 130 140.1 86.2 160.0
 51 51.8 33.5 50.3#





#25

Chloroform

Concen: 24.087 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

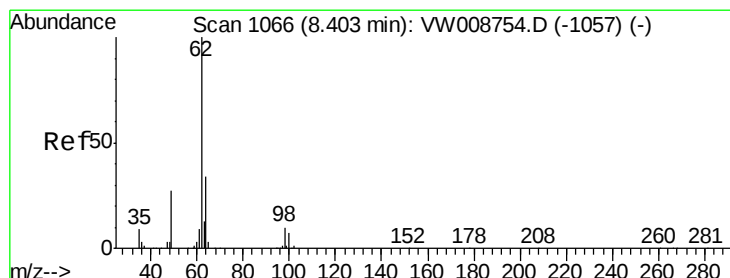
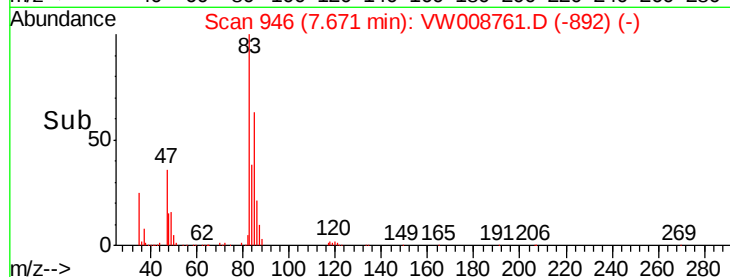
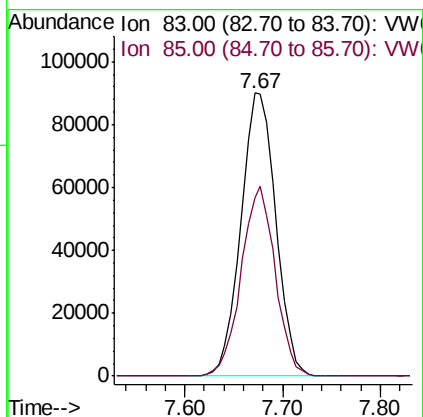
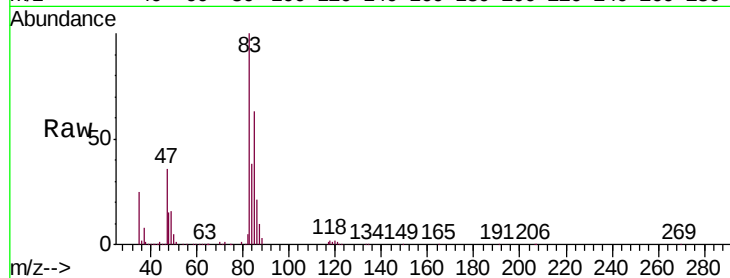
VSTD02587

Tgt Ion: 83 Resp: 222582

Ion Ratio Lower Upper

83 100

85 65.3 45.8 85.2



#27

1,2-Dichloroethane

Concen: 24.142 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW008761.D

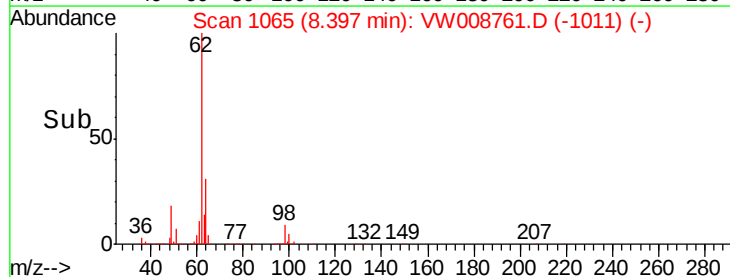
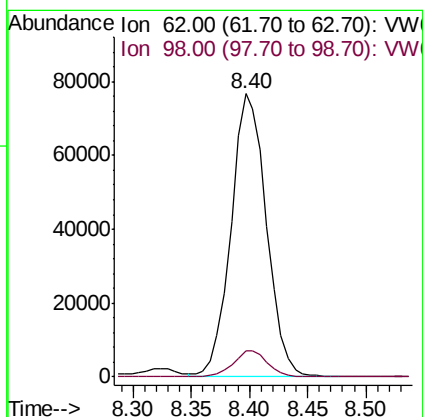
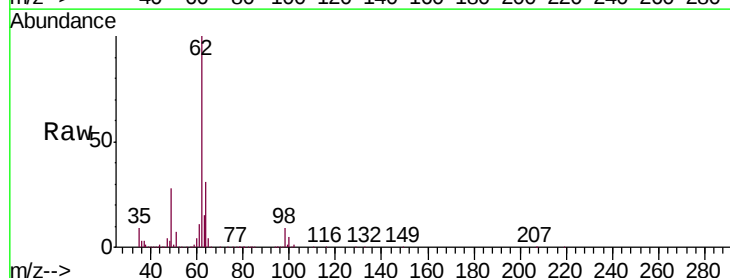
Acq: 20 Feb 2019 18:27

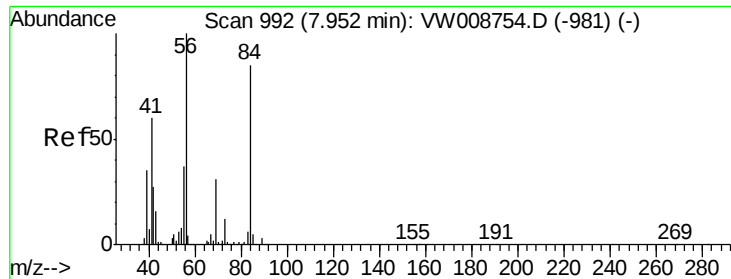
Tgt Ion: 62 Resp: 162241

Ion Ratio Lower Upper

62 100

98 9.4 5.4 8.2#

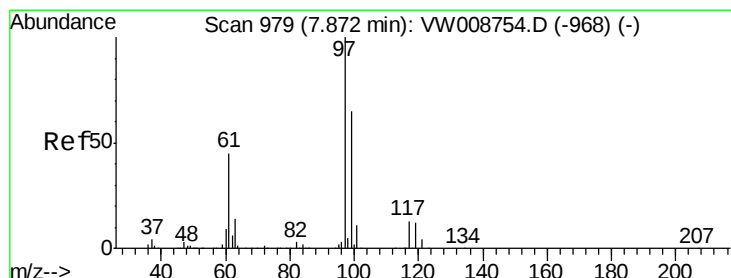
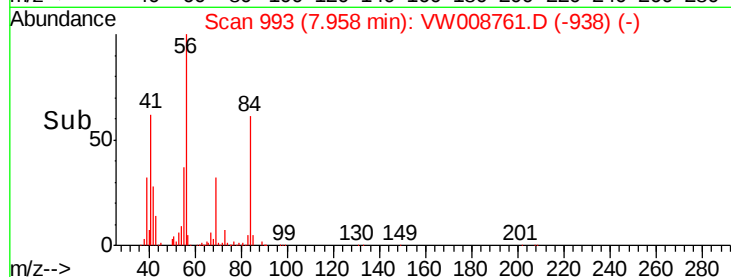
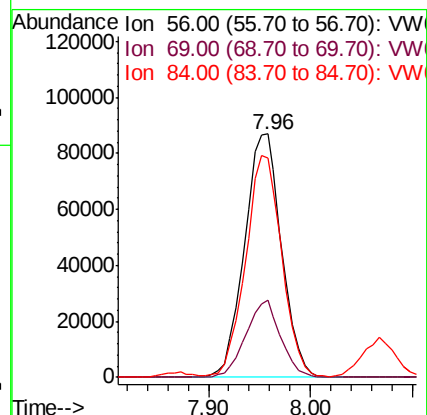
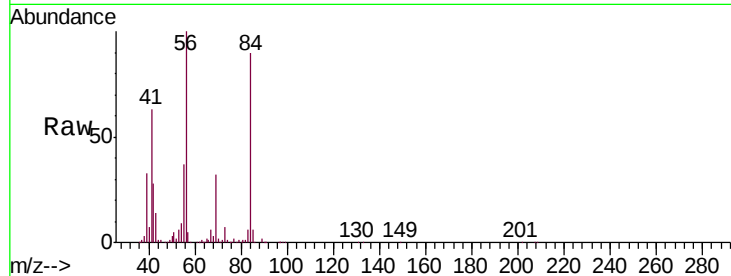




#30
Cyclohexane
Concen: 24.849 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW008761.D
Acq: 20 Feb 2019 18:27

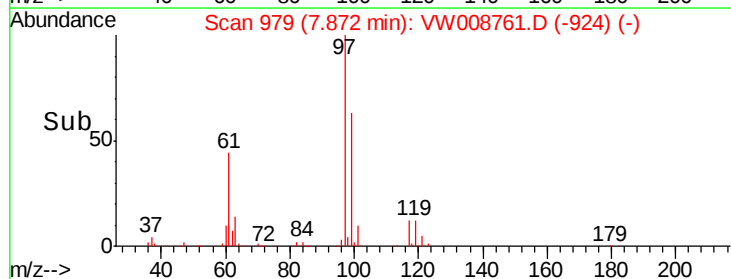
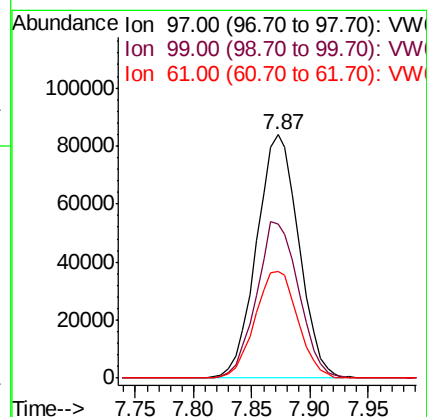
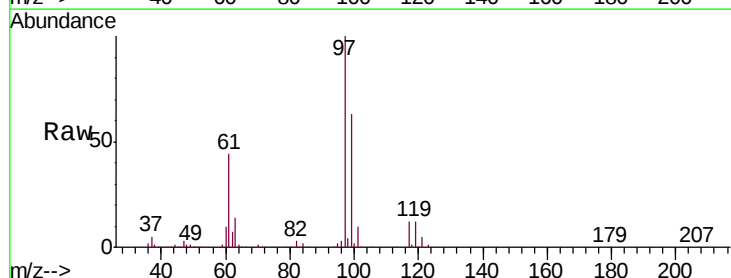
Instrument :
MSVOA_W
ClientSampleId :
VSTD02587

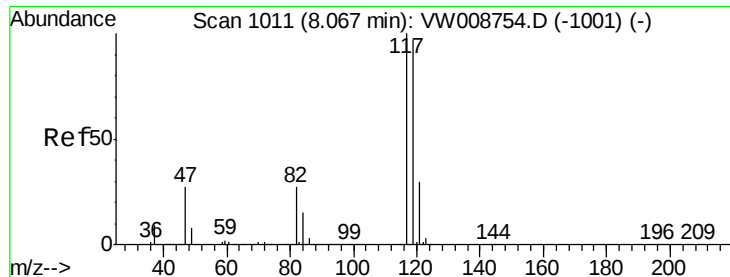
Tgt Ion: 56 Resp: 218449
Ion Ratio Lower Upper
56 100
69 29.9 26.2 39.4
84 89.3 74.3 111.5



#31
1,1,1-Trichloroethane
Concen: 24.392 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW008761.D
Acq: 20 Feb 2019 18:27

Tgt Ion: 97 Resp: 210324
Ion Ratio Lower Upper
97 100
99 64.4 52.3 78.5
61 44.6 33.5 50.3





#32

Carbon tetrachloride

Concen: 24.290 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

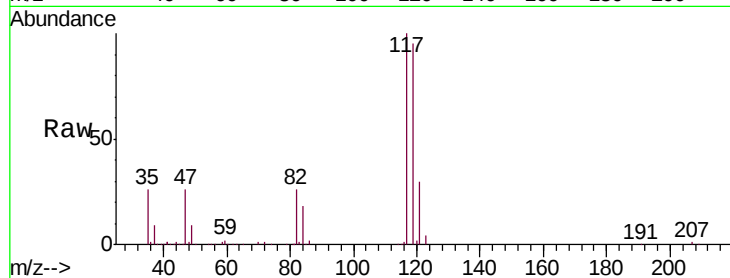
VSTD02587

Tgt Ion:117 Resp: 191412

Ion Ratio Lower Upper

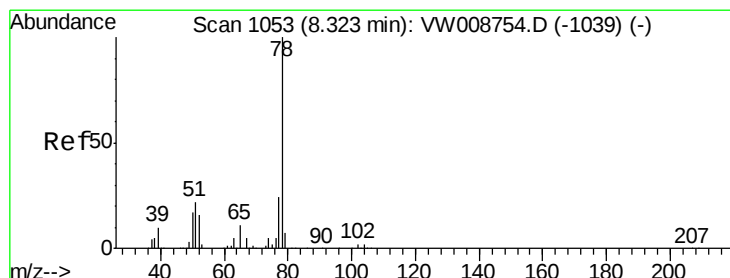
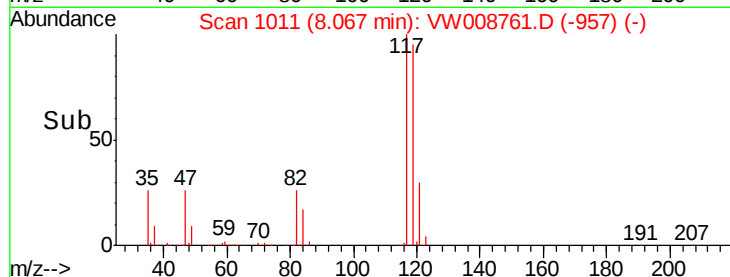
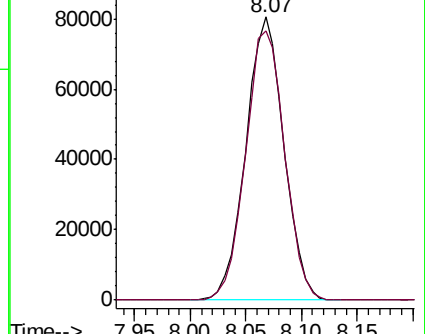
117 100

119 97.9 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: 24.307 ug/L

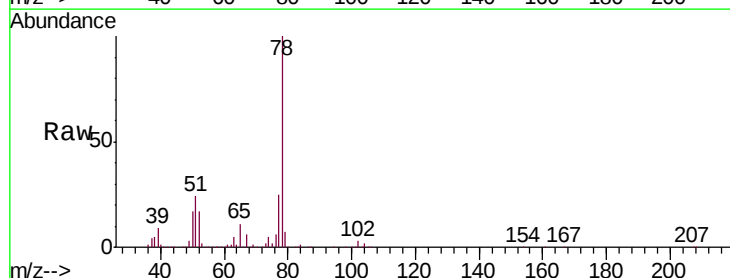
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

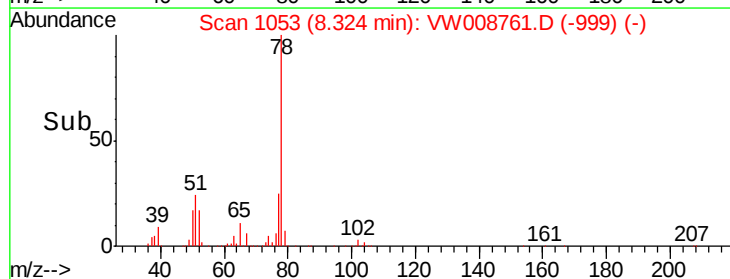
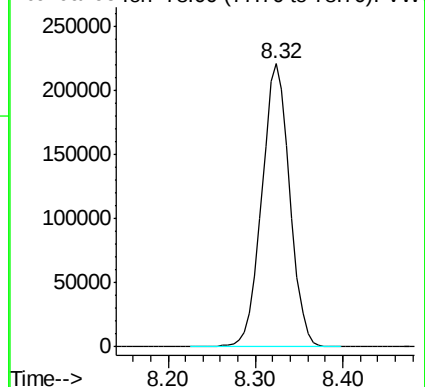
Lab File: VW008761.D

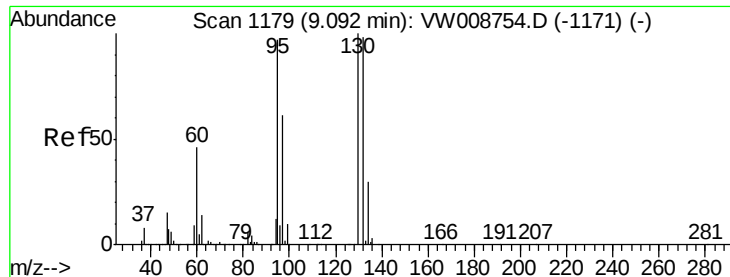
Acq: 20 Feb 2019 18:27

Tgt Ion: 78 Resp: 492505



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.197 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

Tgt Ion: 95 Resp: 132333

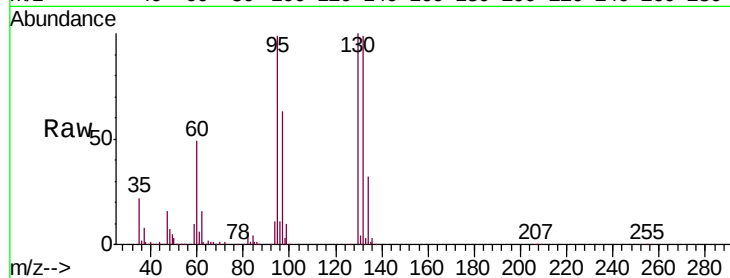
Ion Ratio Lower Upper

95 100

97 64.8 44.4 82.5

132 102.5 67.8 126.0

130 105.2 70.3 130.7



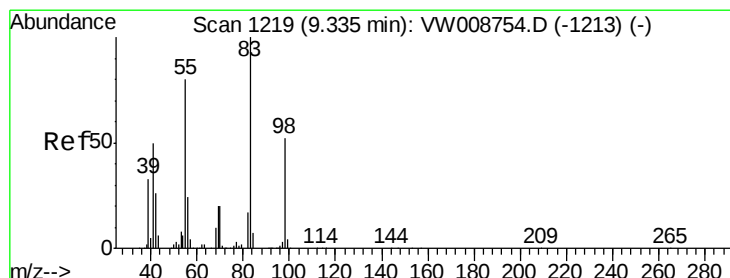
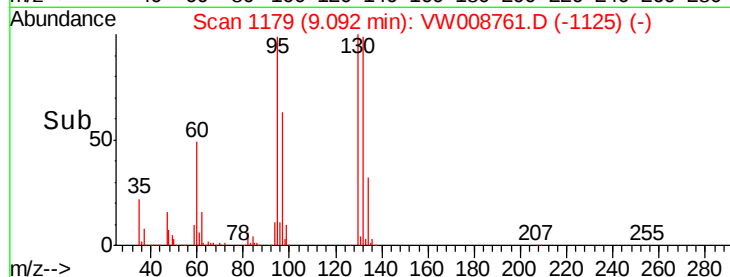
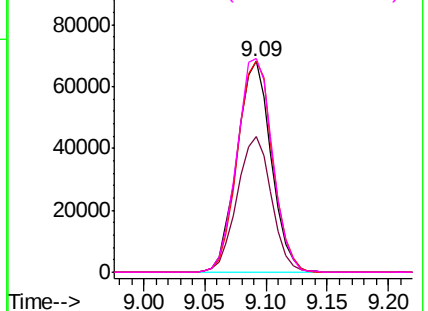
Abundance

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): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 24.702 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

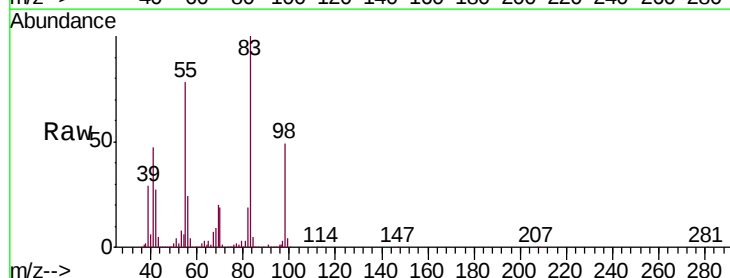
Tgt Ion: 83 Resp: 239717

Ion Ratio Lower Upper

83 100

55 77.7 59.4 89.0

98 49.3 38.2 57.2

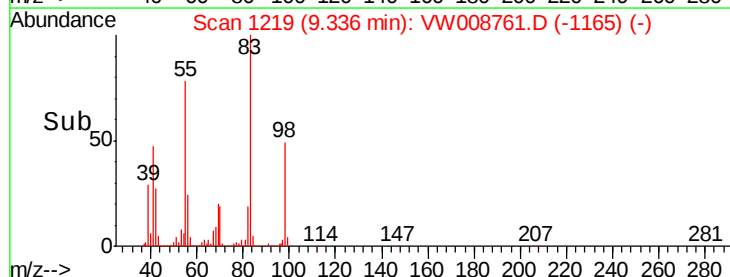
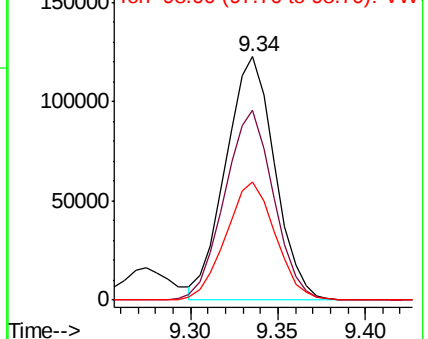


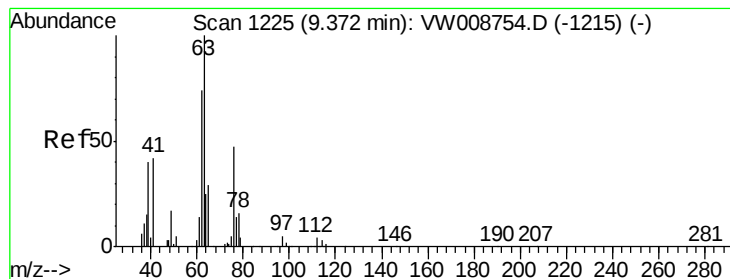
Abundance

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: 23.805 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

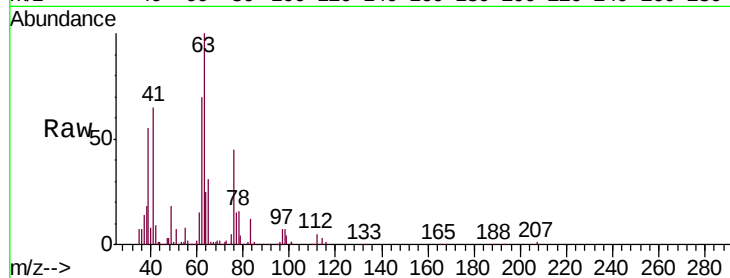
VSTD02587

Tgt Ion: 63 Resp: 119149

Ion Ratio Lower Upper

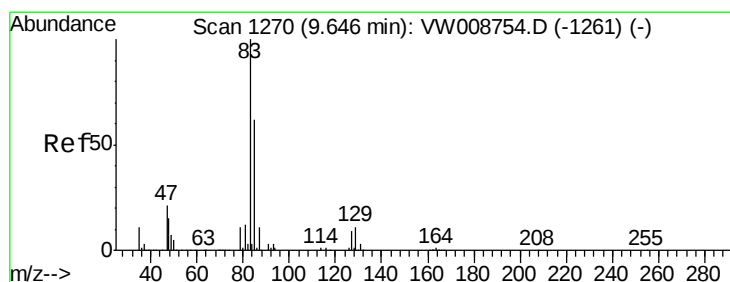
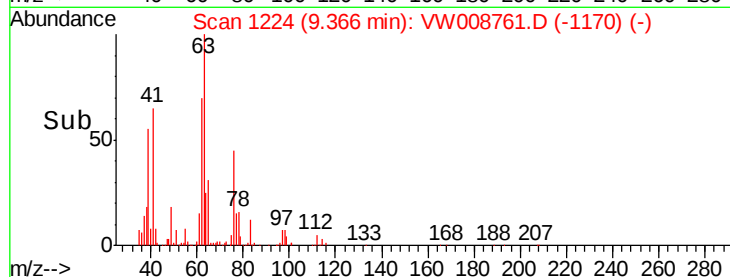
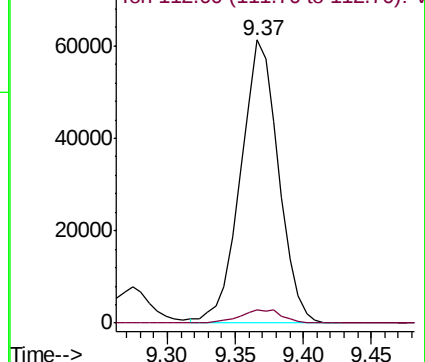
63 100

112 5.2 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 23.906 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

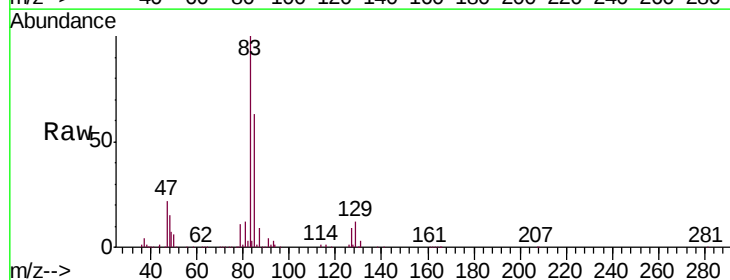
Tgt Ion: 83 Resp: 162698

Ion Ratio Lower Upper

83 100

85 63.5 44.4 82.5

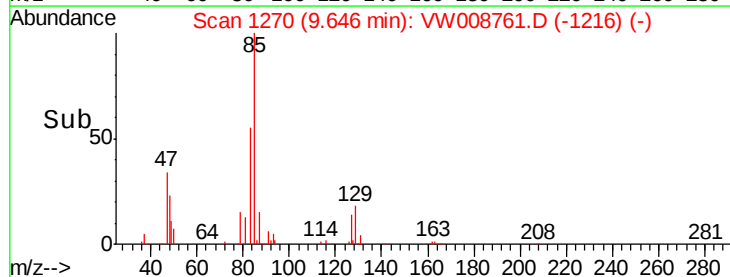
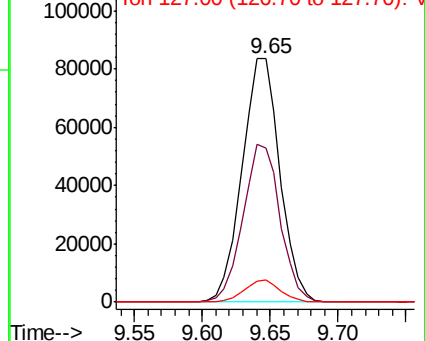
127 8.9 7.0 10.6

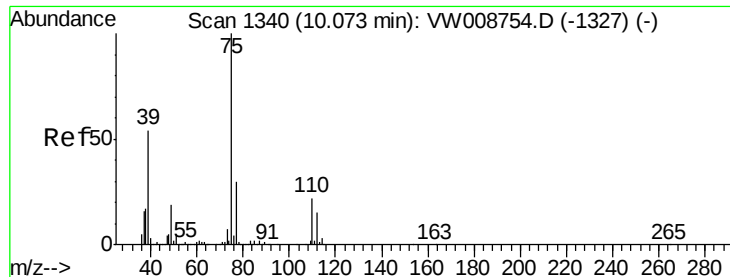


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 23.773 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

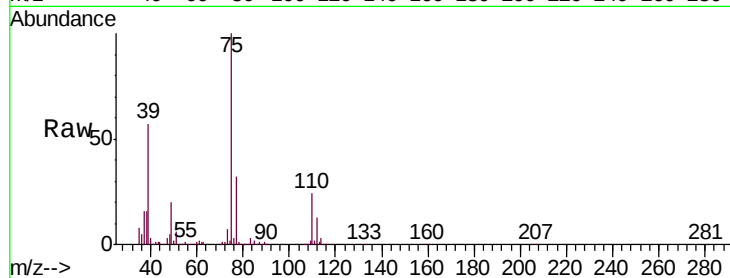
VSTD02587

Tgt Ion: 75 Resp: 193008

Ion Ratio Lower Upper

75 100

77 32.3 23.0 42.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

120000

100000

80000

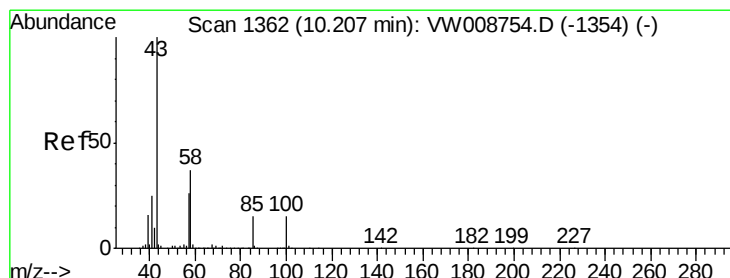
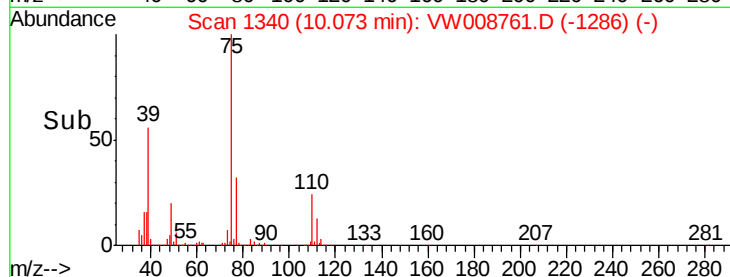
60000

40000

20000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 54.873 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

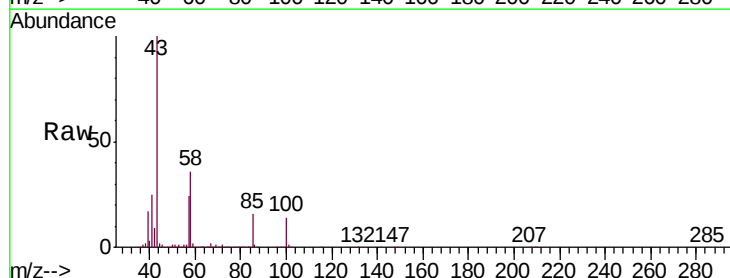
Tgt Ion: 43 Resp: 248035

Ion Ratio Lower Upper

43 100

58 36.3 31.1 46.7

100 15.3 14.0 21.0



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

200000

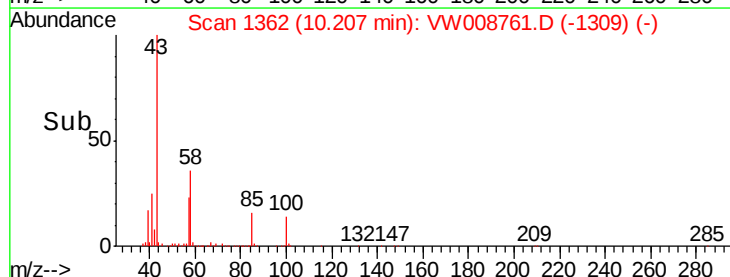
150000

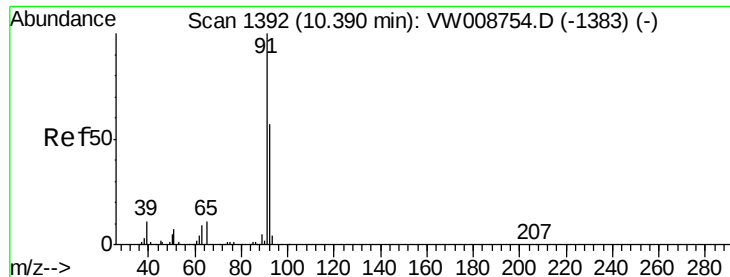
100000

50000

0

Time-->





#44

Toluene

Concen: 24.816 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

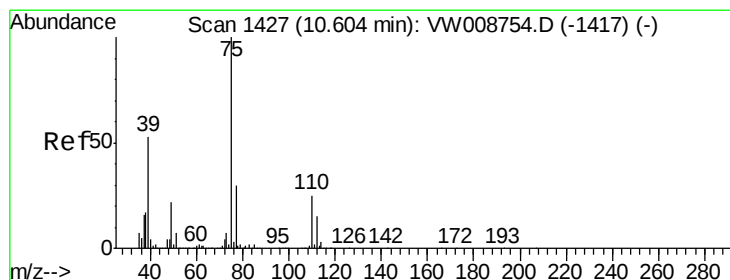
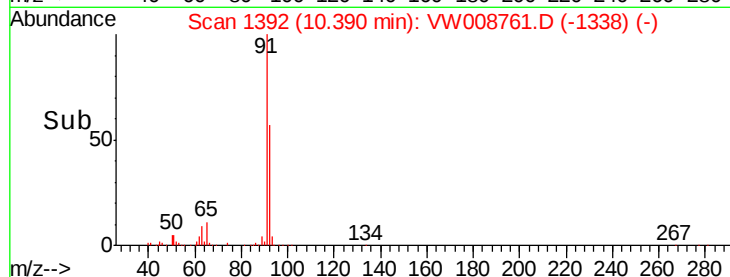
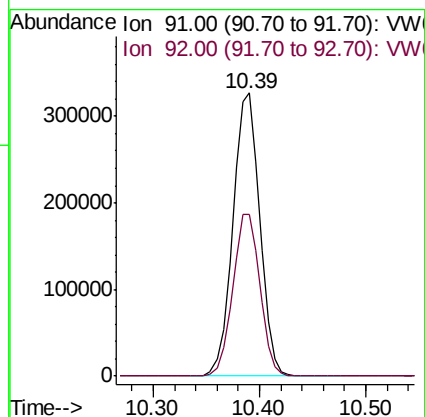
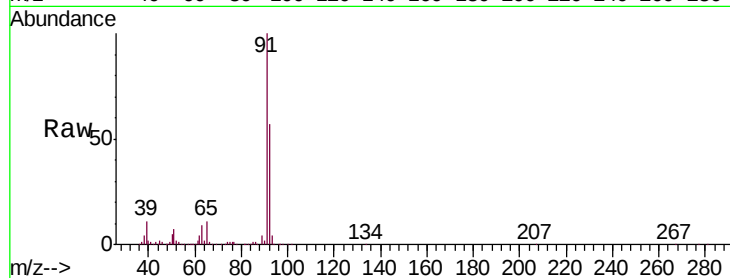
VSTD02587

Tgt Ion: 91 Resp: 578063

Ion Ratio Lower Upper

91 100

92 57.2 39.6 73.6



#45

trans-1,3-Dichloropropene

Concen: 24.310 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW008761.D

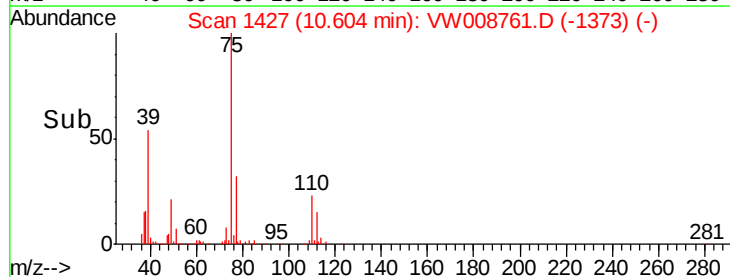
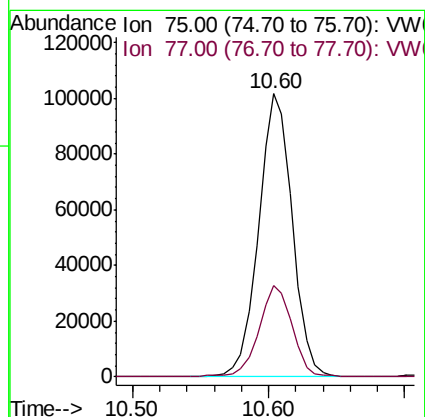
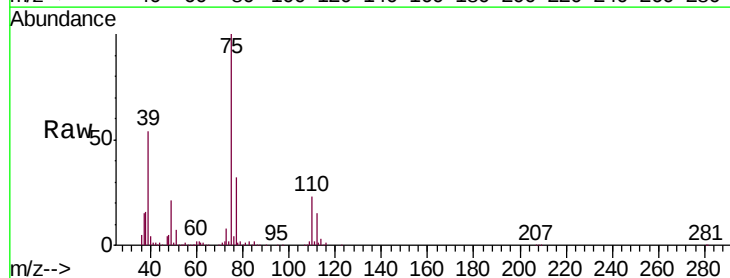
Acq: 20 Feb 2019 18:27

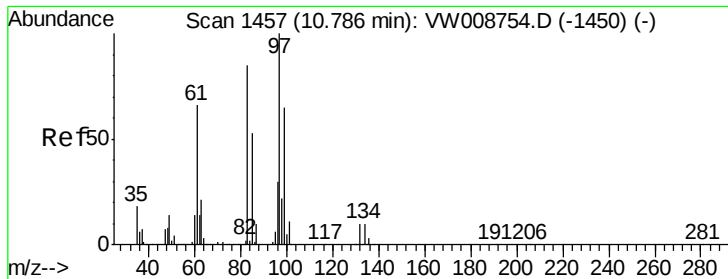
Tgt Ion: 75 Resp: 176244

Ion Ratio Lower Upper

75 100

77 32.1 21.1 39.3





#46

1,1,2-Trichloroethane

Concen: 24.339 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

Tgt Ion: 97 Resp: 101854

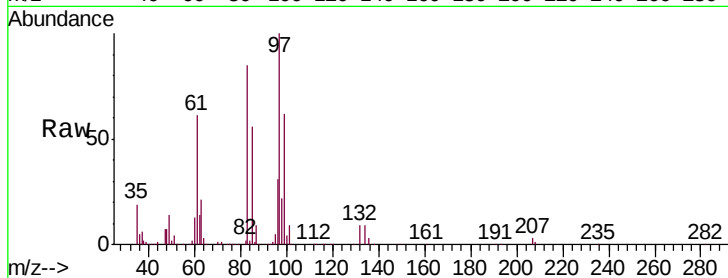
Ion Ratio Lower Upper

97 100

83 84.9 58.4 108.6

85 55.6 36.4 67.6

99 62.3 43.8 81.3

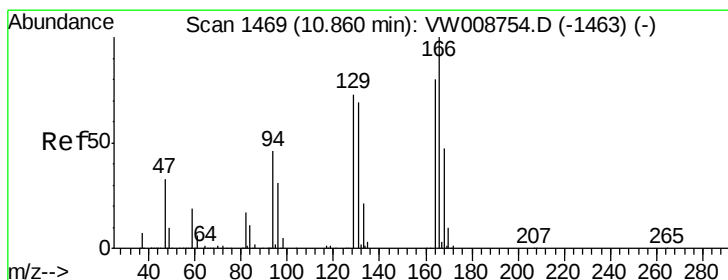
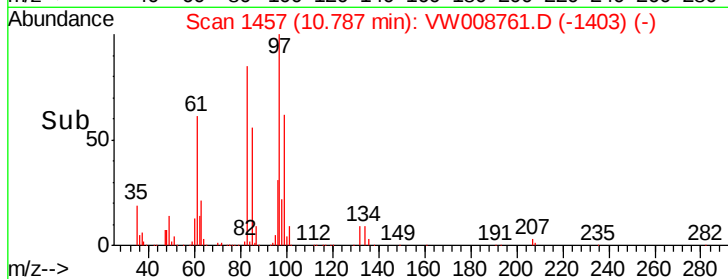
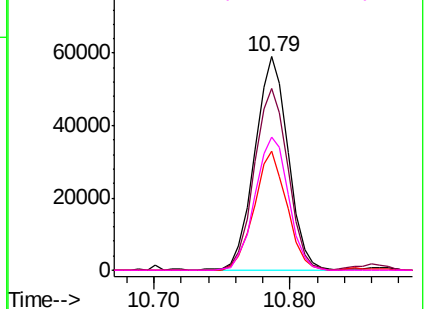


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 24.396 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Tgt Ion: 164 Resp: 121466

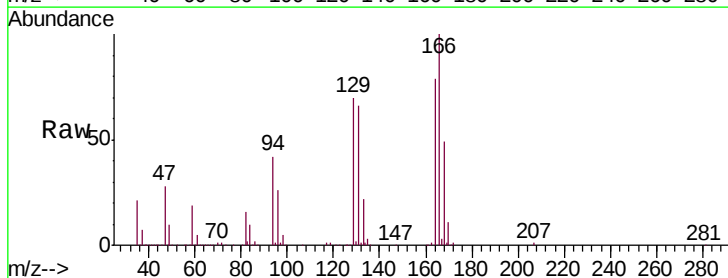
Ion Ratio Lower Upper

164 100

129 88.4 70.6 131.2

131 83.3 66.5 123.5

166 126.5 87.7 162.9

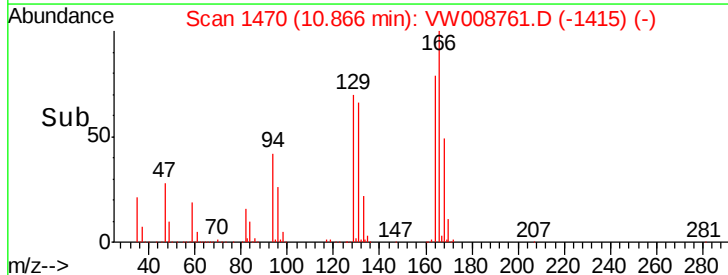
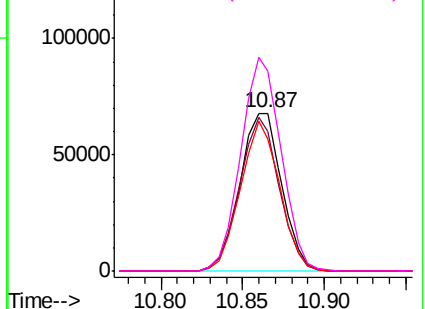


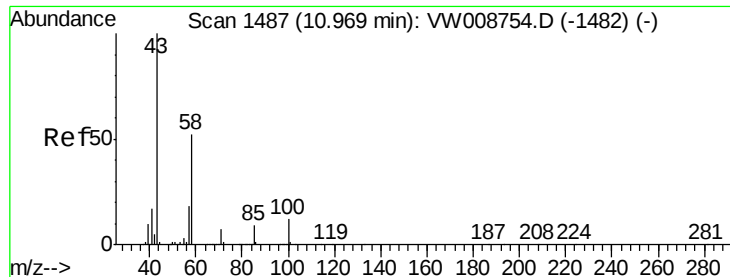
Abundance Ion 164.00 (163.70 to 164.70): V

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: 54.684 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampled :

VSTD02587

Tgt Ion: 43 Resp: 193884

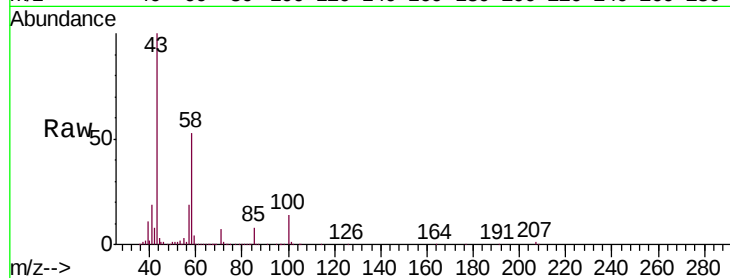
Ion Ratio Lower Upper

43 100

58 52.3 46.2 69.4

57 19.3 17.9 26.9

100 12.7 11.4 17.2

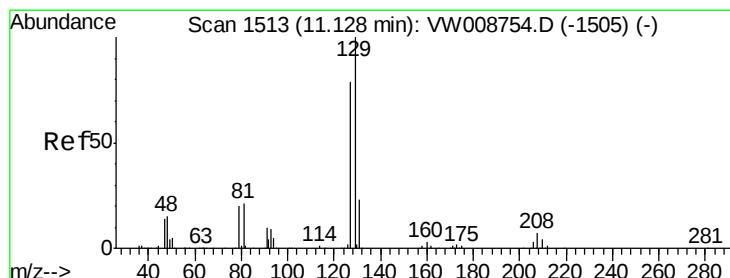
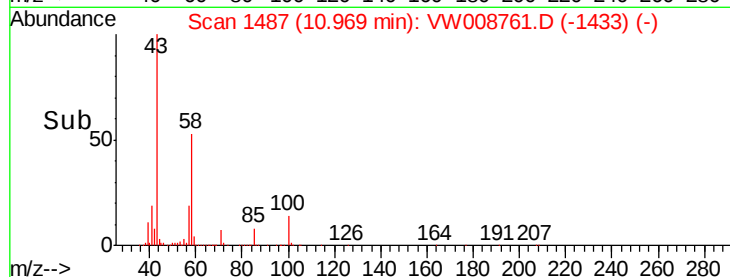
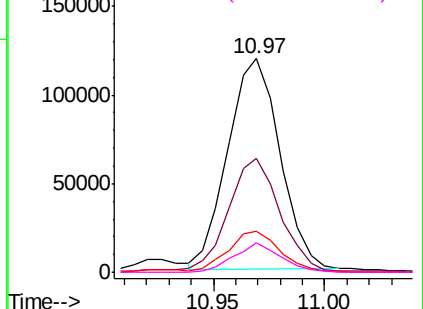


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 24.466 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW008761.D

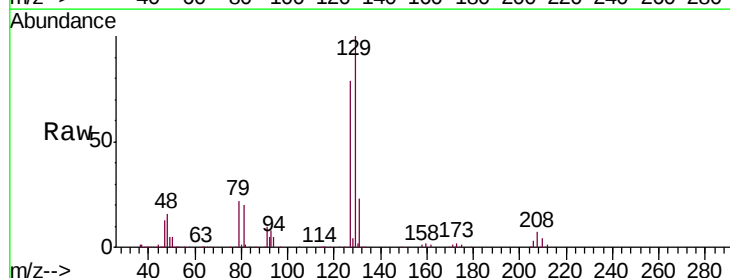
Acq: 20 Feb 2019 18:27

Tgt Ion: 129 Resp: 124122

Ion Ratio Lower Upper

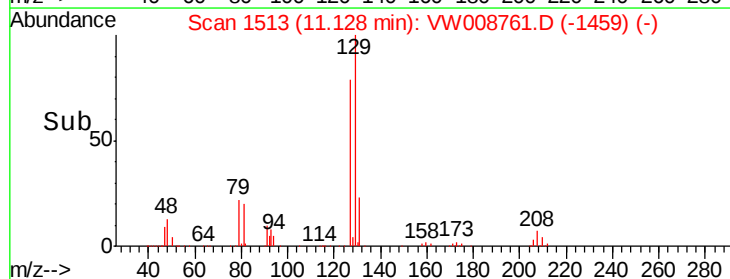
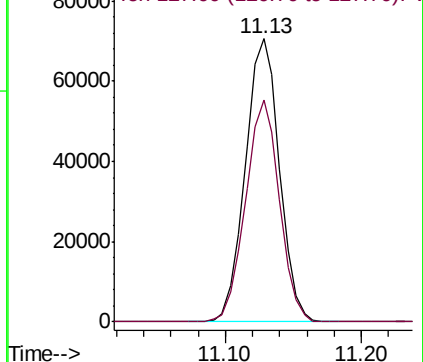
129 100

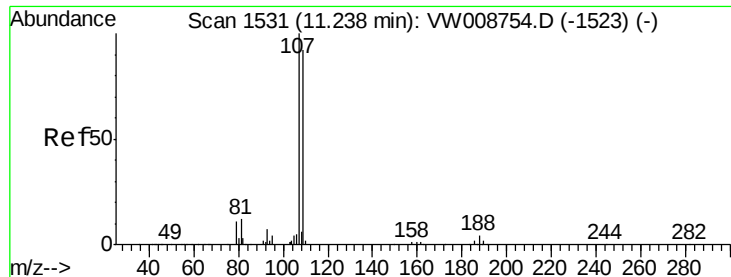
127 78.5 55.8 103.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 24.895 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

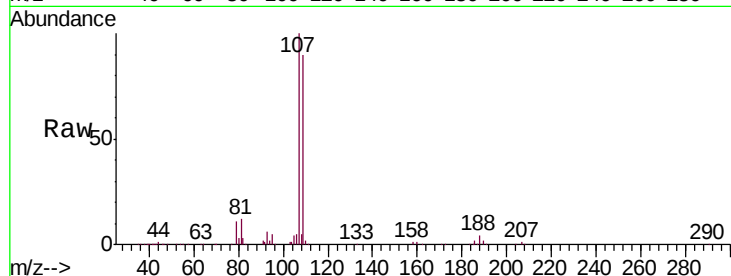
Tgt Ion:107 Resp: 105381

Ion Ratio Lower Upper

107 100

109 90.1 63.2 117.4

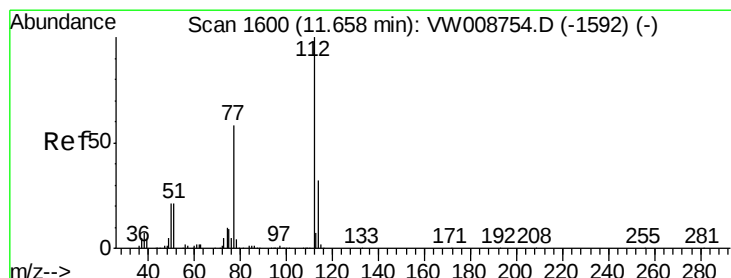
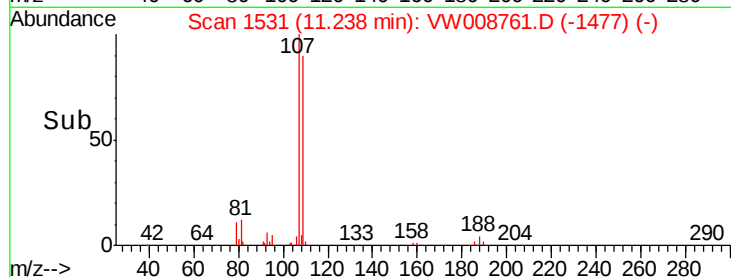
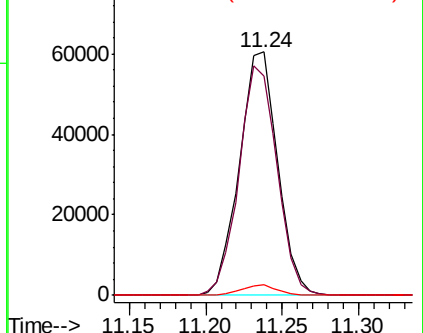
188 4.2 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.081 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

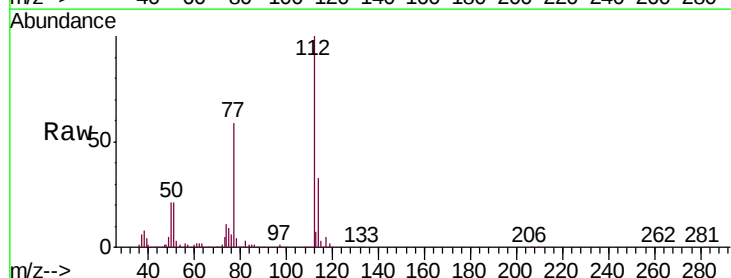
Tgt Ion:112 Resp: 377530

Ion Ratio Lower Upper

112 100

77 59.1 47.8 71.6

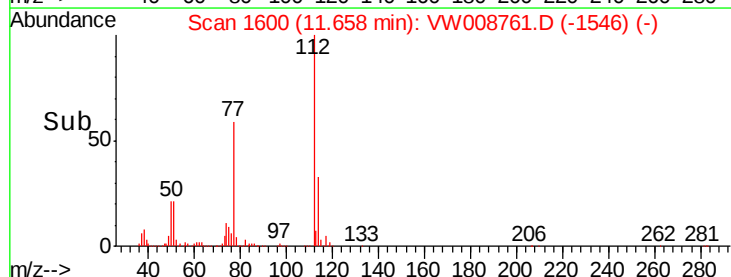
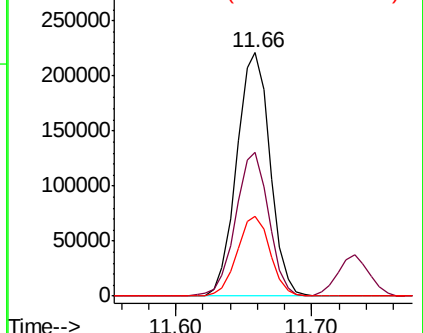
114 32.7 22.2 41.2

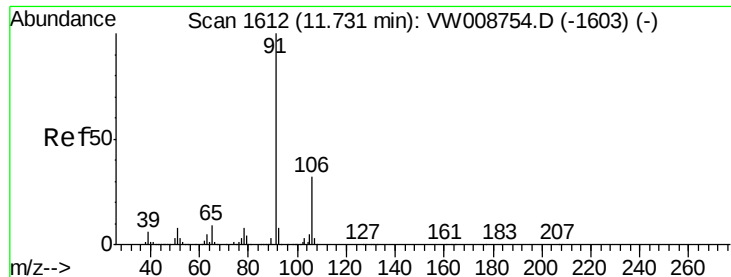


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.526 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

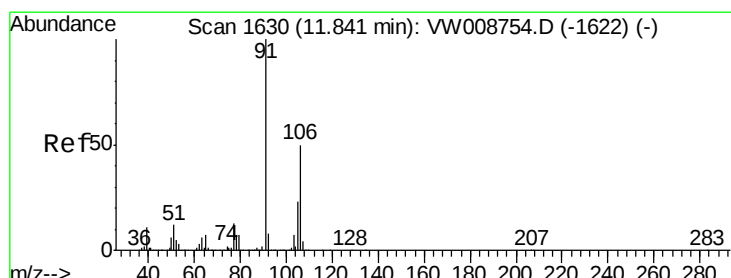
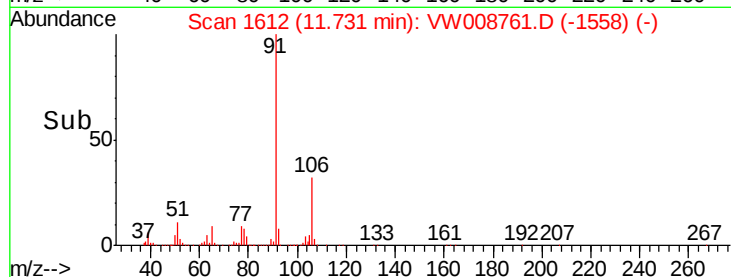
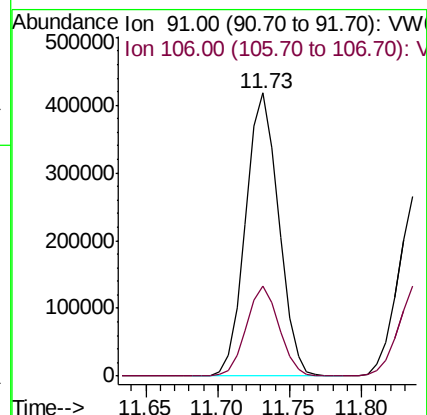
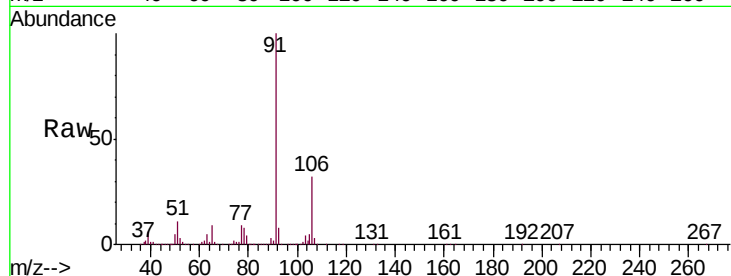
VSTD02587

Tgt Ion: 91 Resp: 663811

Ion Ratio Lower Upper

91 100

106 31.7 21.5 39.9



#54

m,p-Xylene

Concen: 24.623 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW008761.D

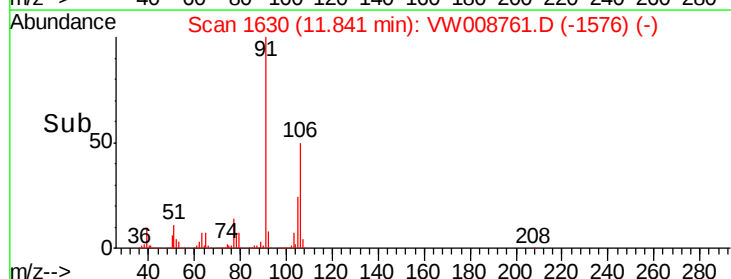
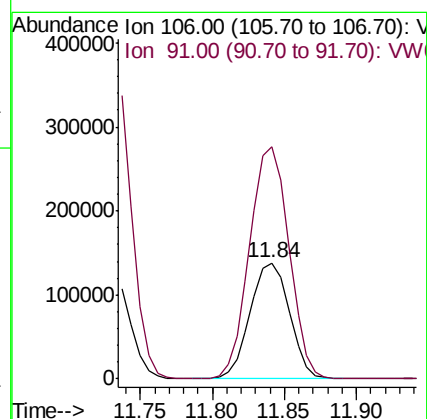
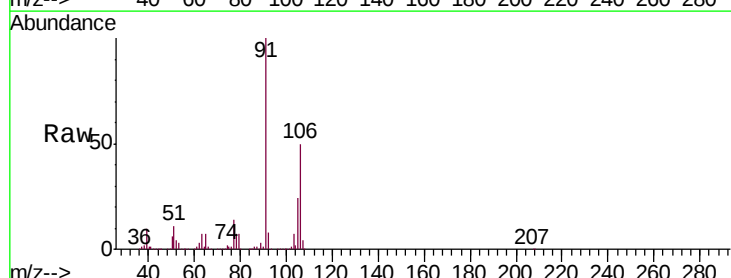
Acq: 20 Feb 2019 18:27

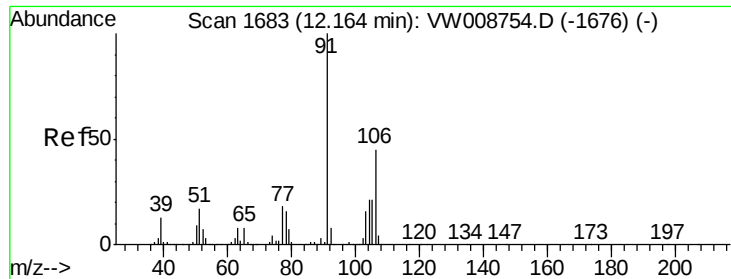
Tgt Ion: 106 Resp: 262059

Ion Ratio Lower Upper

106 100

91 200.3 147.8 274.4





#55

o-xylene

Concen: 24.217 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

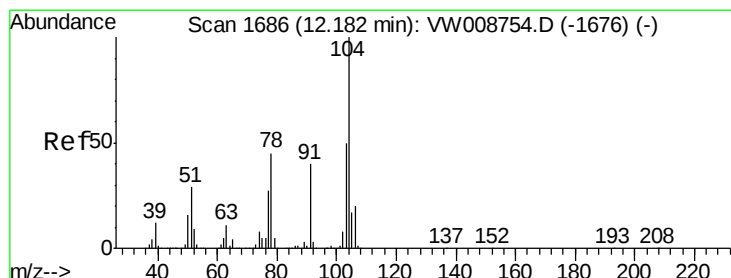
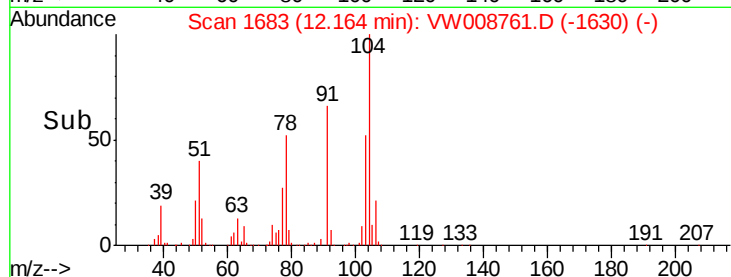
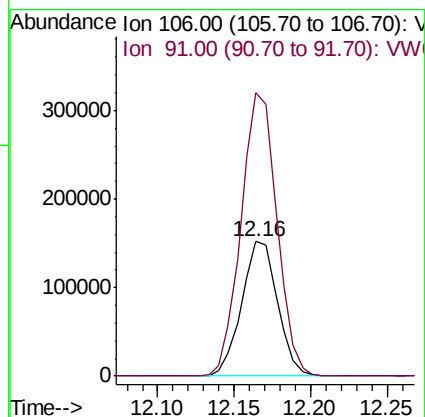
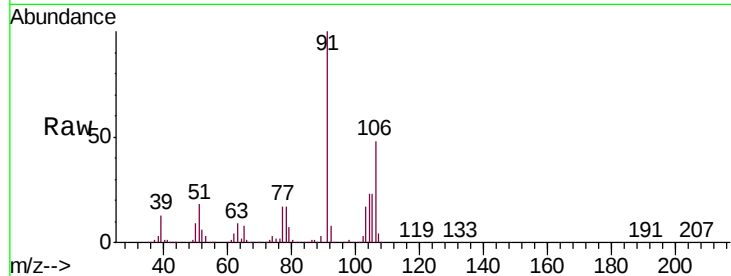
VSTD02587

Tgt Ion:106 Resp: 247943

Ion Ratio Lower Upper

106 100

91 210.4 156.0 289.6



#56

Styrene

Concen: 24.442 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW008761.D

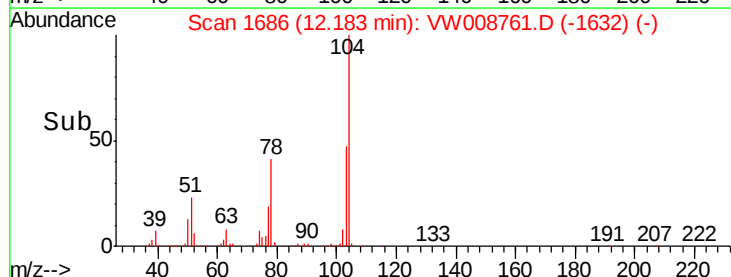
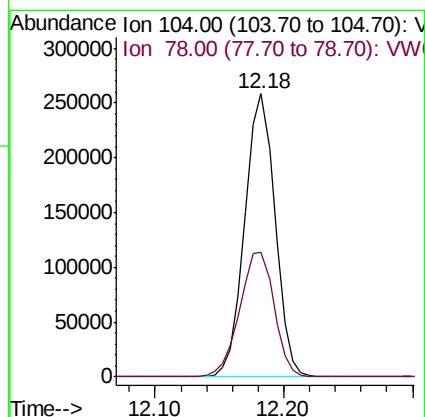
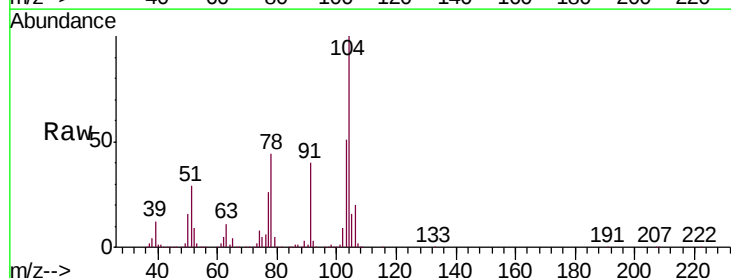
Acq: 20 Feb 2019 18:27

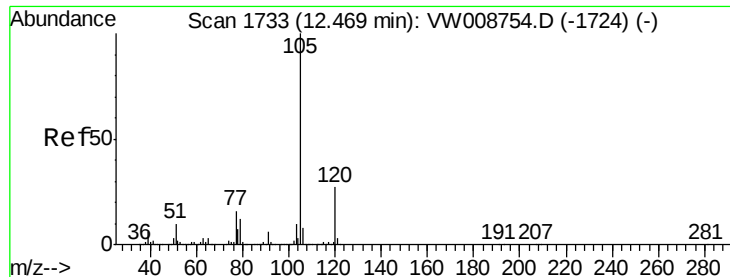
Tgt Ion:104 Resp: 419701

Ion Ratio Lower Upper

104 100

78 44.1 34.6 64.3





#57

Isopropylbenzene

Concen: 24.409 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

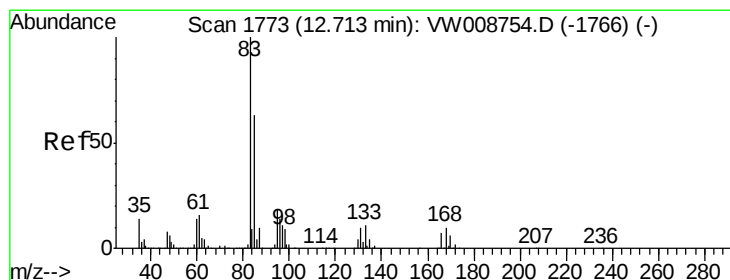
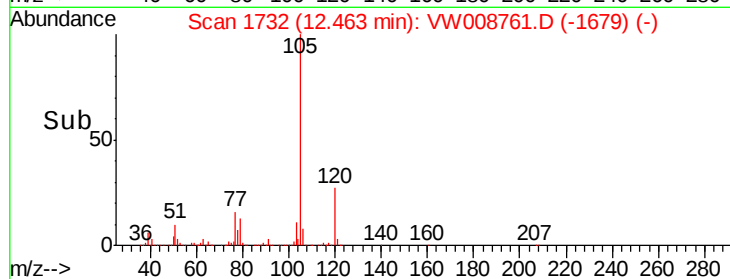
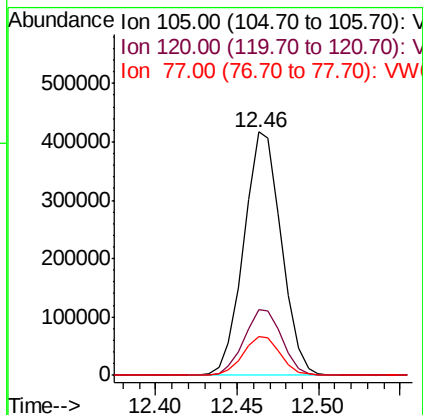
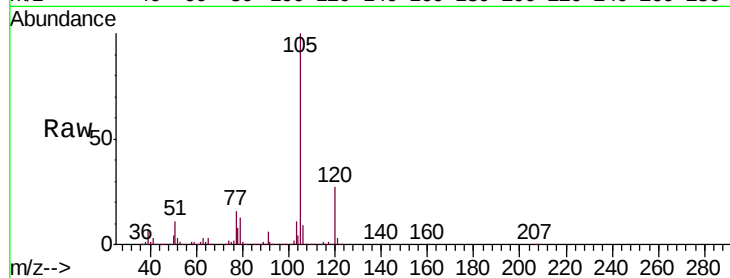
Instrument :

MSVOA_W

ClientSampled :

VSTD02587

Tgt Ion:	105	Resp:	666687
Ion	Ratio	Lower	Upper
105	100		
120	27.3	21.1	31.7
77	15.9	12.4	18.6



#58

1,1,2,2-Tetrachloroethane

Concen: 25.721 ug/L

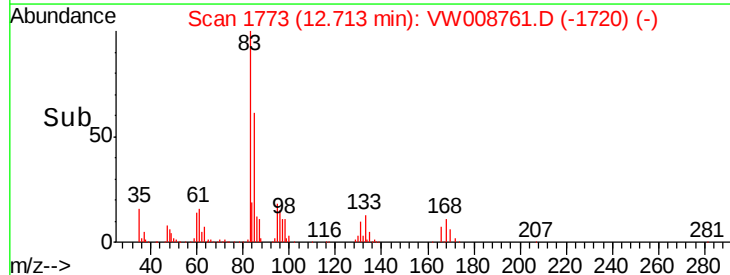
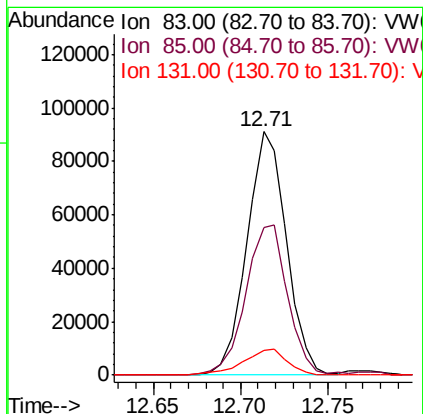
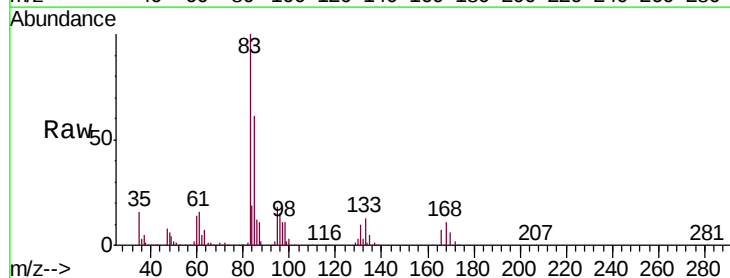
RT: 12.71 min Scan# 1773

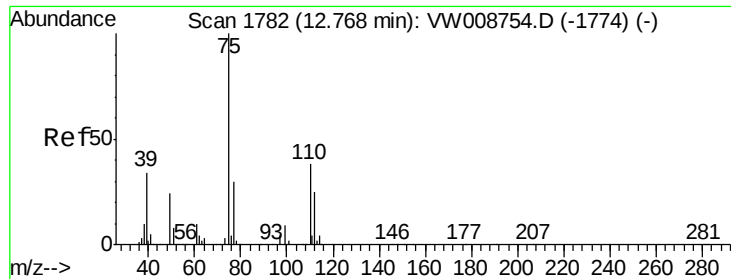
Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Tgt Ion:	83	Resp:	144409
Ion	Ratio	Lower	Upper
83	100		
85	60.6	46.6	86.6
131	10.1	9.7	14.5





#59

1,2,3-Trichloropropane

Concen: 26.239 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

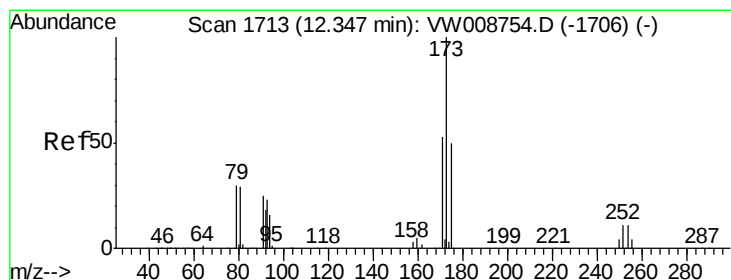
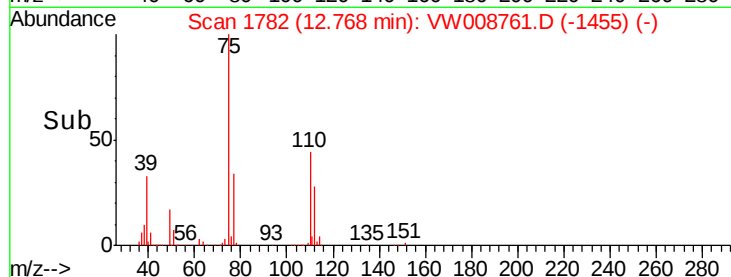
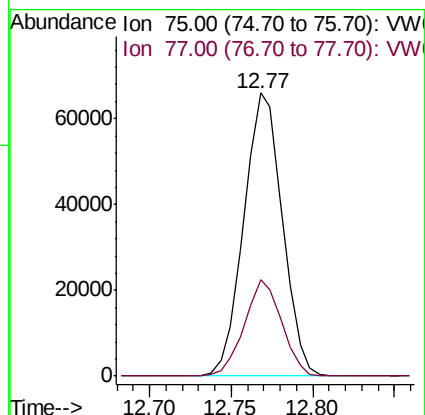
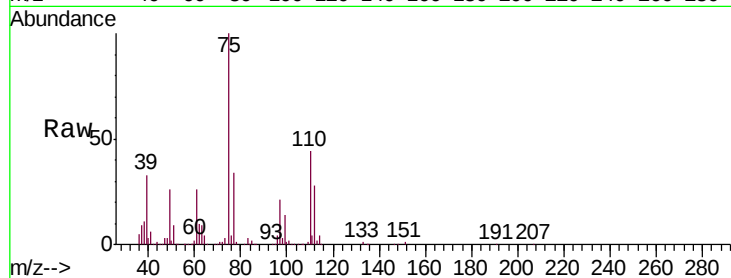
VSTD02587

Tgt Ion: 75 Resp: 108919

Ion Ratio Lower Upper

75 100

77 33.2 25.5 38.3



#62

Bromoform

Concen: 24.957 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

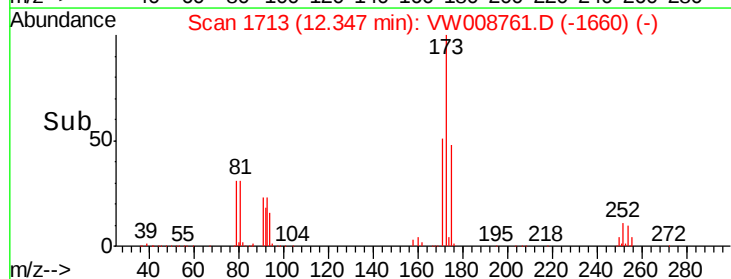
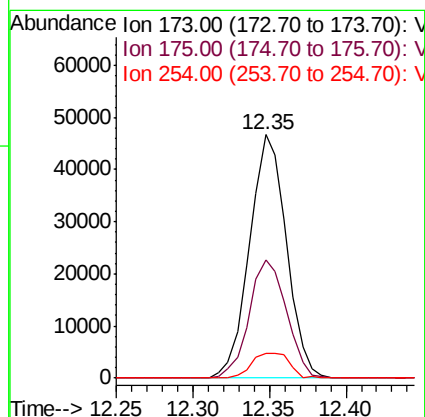
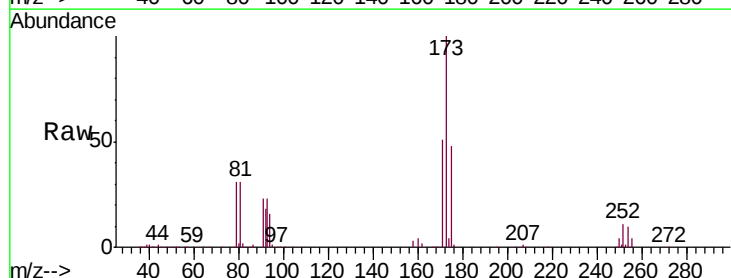
Tgt Ion: 173 Resp: 78421

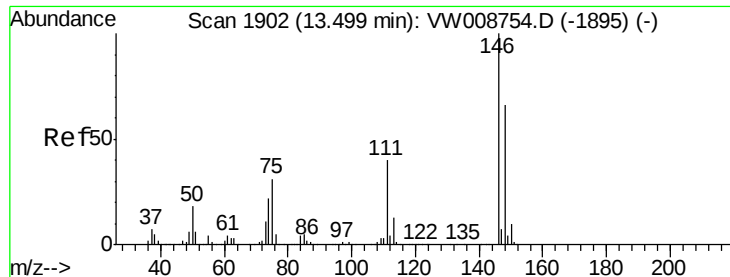
Ion Ratio Lower Upper

173 100

175 49.0 39.0 58.4

254 10.3 5.8 8.8#

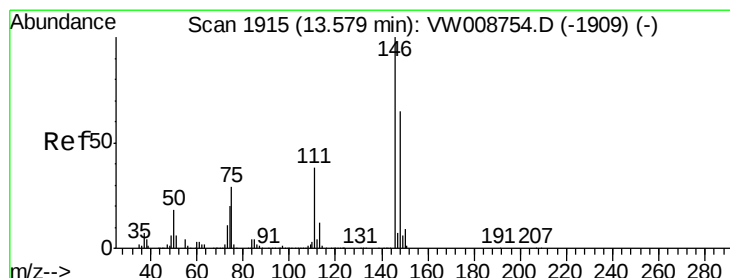
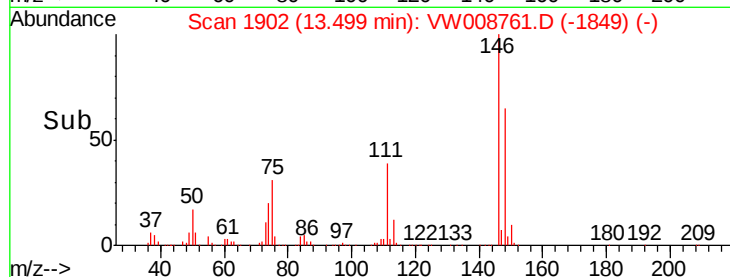
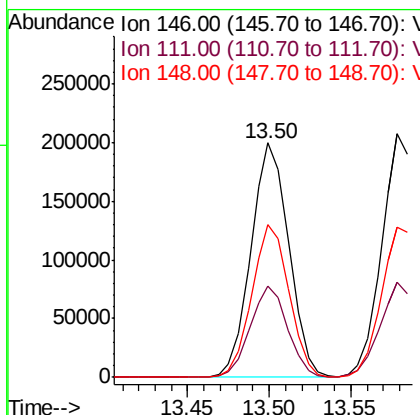
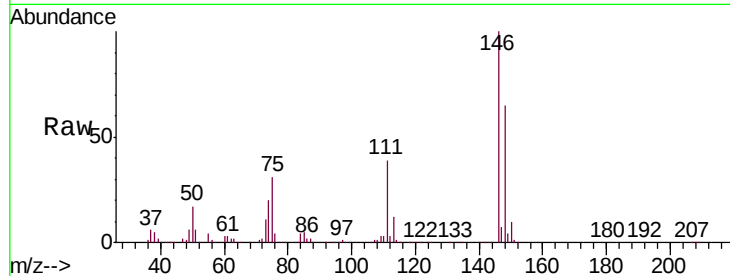




#63
 1,3-Dichlorobenzene
 Concen: 24.294 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.01 min
 Lab File: VW008761.D
 Acq: 20 Feb 2019 18:27

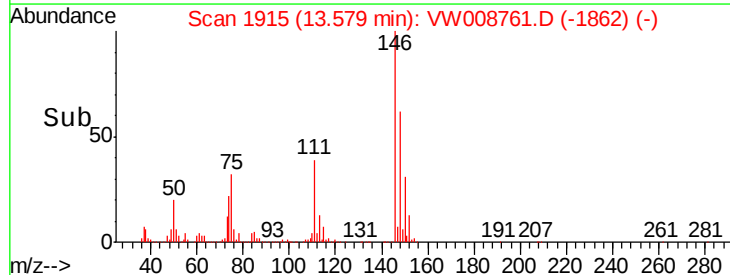
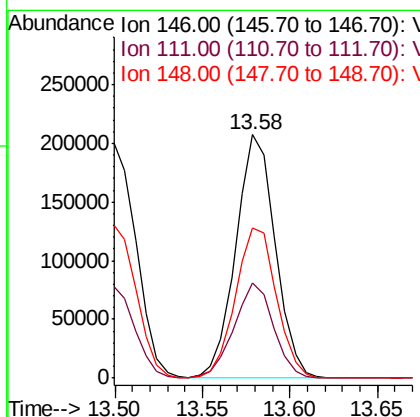
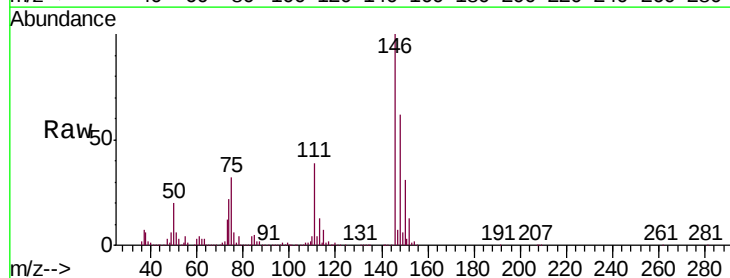
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

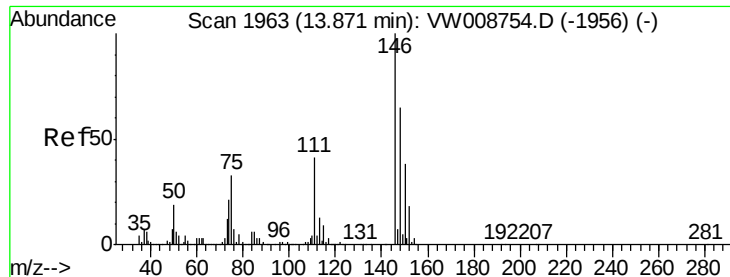
Tgt Ion:146 Resp: 321818
 Ion Ratio Lower Upper
 146 100
 111 39.1 31.0 57.6
 148 64.9 43.6 81.0



#64
 1,4-Dichlorobenzene
 Concen: 24.234 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.01 min
 Lab File: VW008761.D
 Acq: 20 Feb 2019 18:27

Tgt Ion:146 Resp: 326148
 Ion Ratio Lower Upper
 146 100
 111 39.0 26.9 49.9
 148 61.8 41.6 77.3





#65

1,2-Dichlorobenzene

Concen: 24.393 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

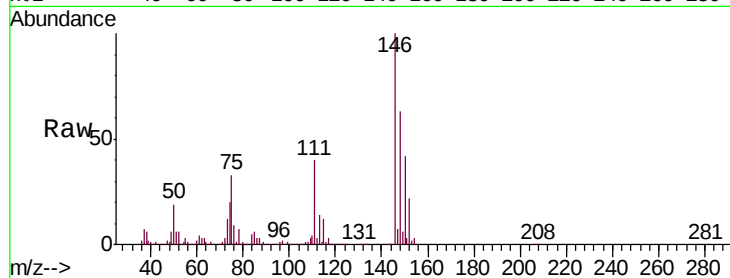
Tgt Ion:146 Resp: 299310

Ion Ratio Lower Upper

146 100

111 39.9 36.4 54.6

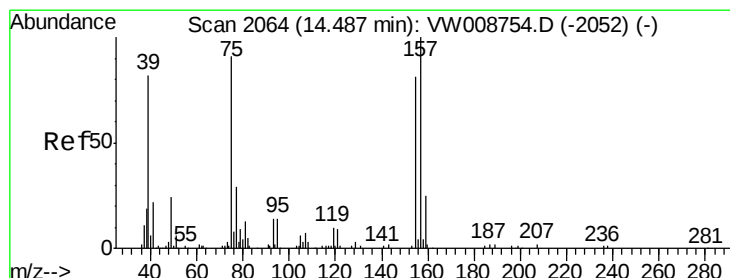
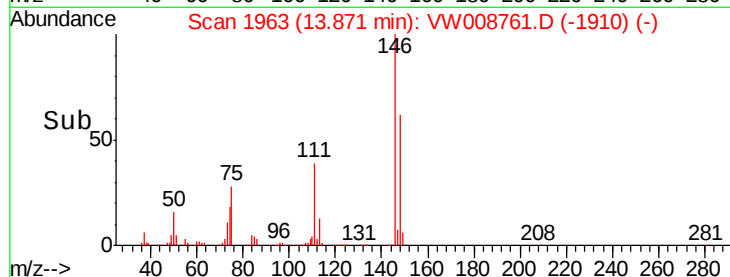
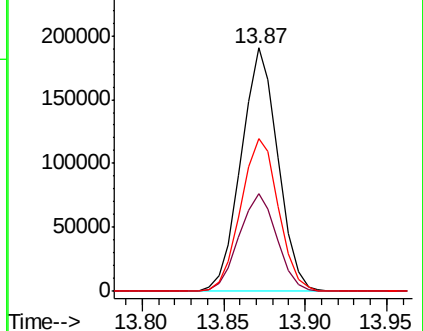
148 62.6 51.0 76.4



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: 26.985 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

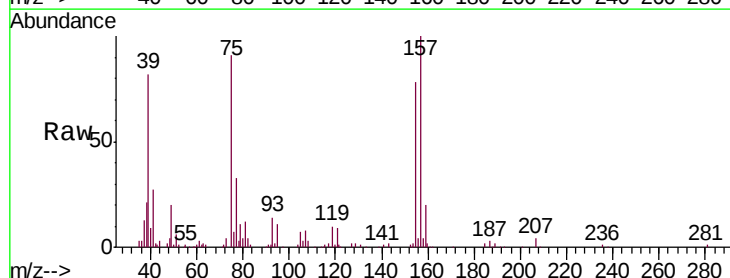
Tgt Ion: 75 Resp: 29400

Ion Ratio Lower Upper

75 100

157 110.2 85.6 128.4

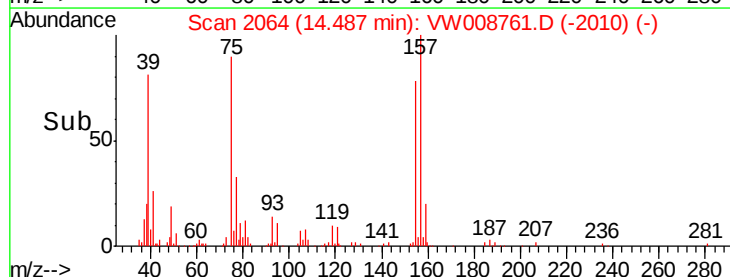
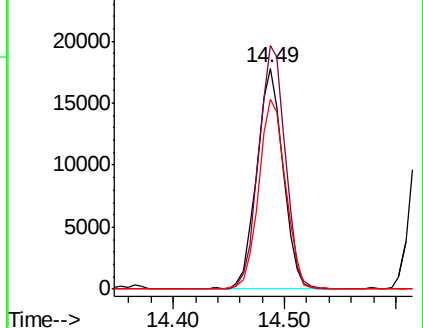
155 85.7 63.4 95.0

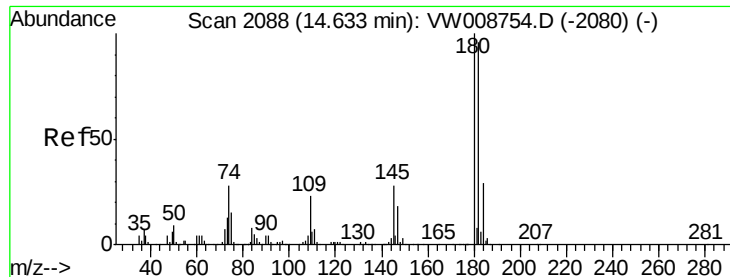


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

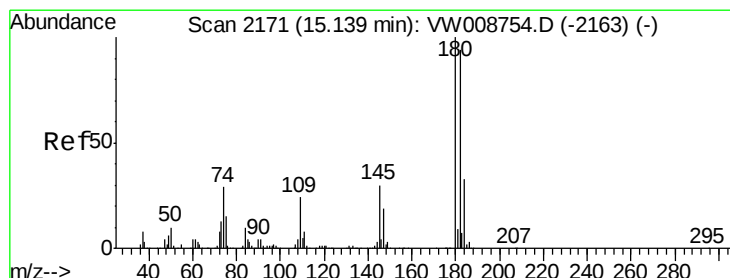
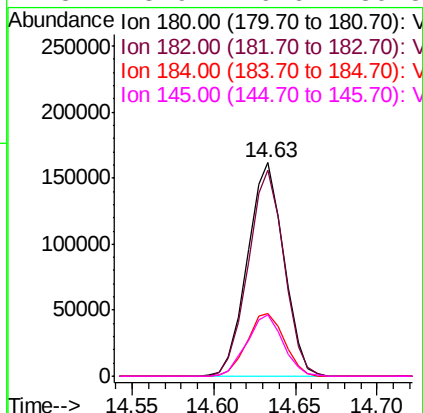
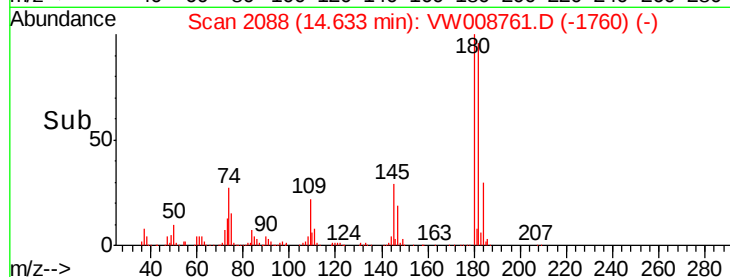
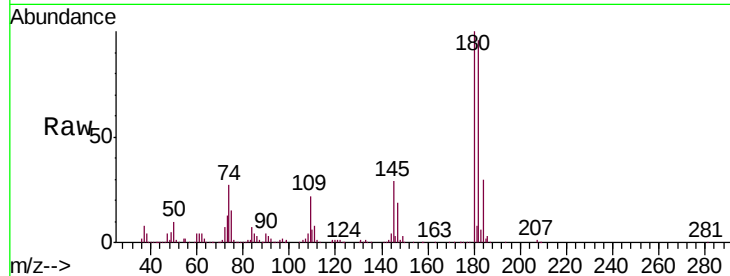




#67
 1,3,5-Trichlorobenzene
 Concen: 24.157 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW008761.D
 Acq: 20 Feb 2019 18:27

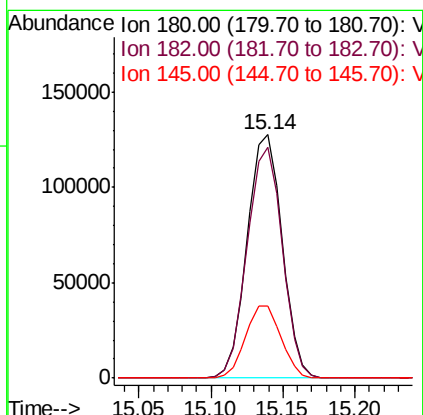
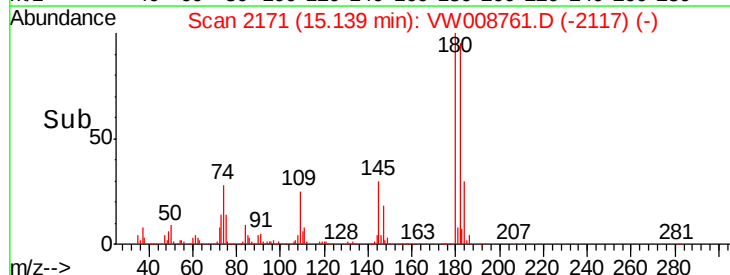
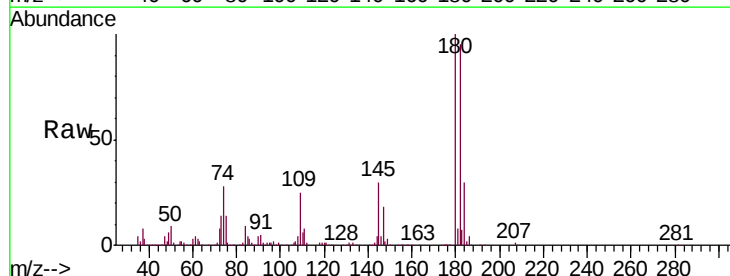
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

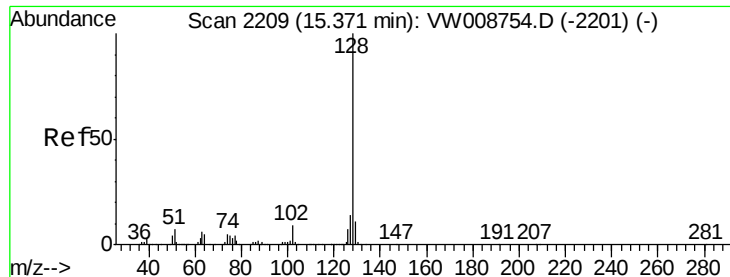
Tgt Ion:	180	Resp:	251962
Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.0	112.4
184	30.1	23.5	35.3
145	28.9	26.6	39.8



#68
 1,2,4-trichlorobenzene
 Concen: 23.909 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW008761.D
 Acq: 20 Feb 2019 18:27

Tgt Ion:	180	Resp:	214797
Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.0	115.6
145	30.3	27.9	41.9





#69

Naphthalene

Concen: 26.476 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

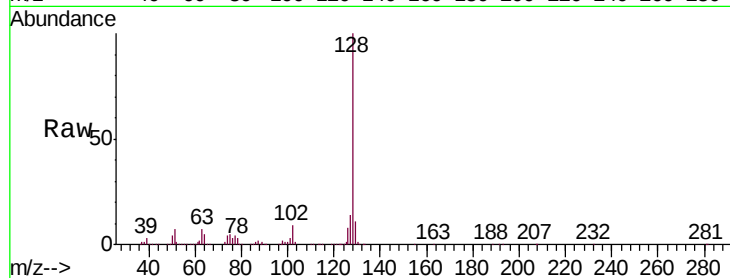
Tgt Ion:128 Resp: 489686

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

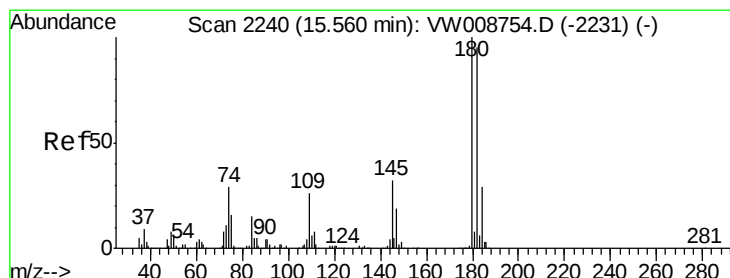
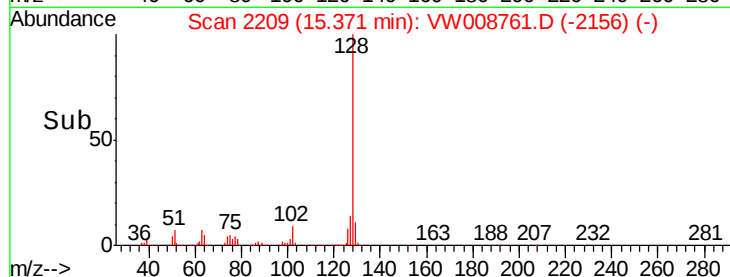
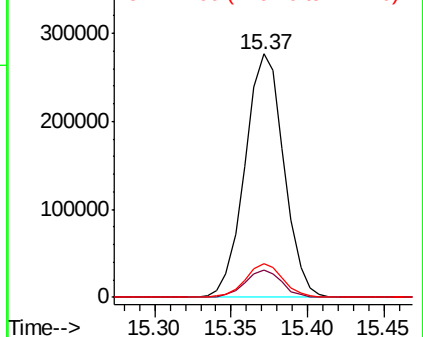
127 13.2 11.1 16.7



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: 24.322 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VW008761.D

Acq: 20 Feb 2019 18:27

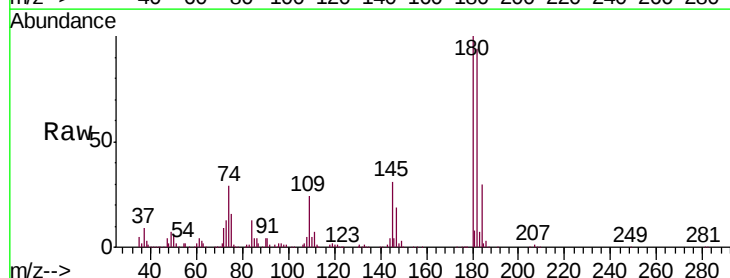
Tgt Ion:180 Resp: 200794

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.6

145 31.1 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

