

Data File : VW009684.D
Acq On : 04 Apr 2019 04:33
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

Quant Time: Apr 04 06:40:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM040319S.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 04 02:03:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	526971	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	513125	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	260644	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	139956	20.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	81.20%
7) Chloroethane-d5	2.89	69	138782	21.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.88%
10) 1,1-Dichloroethene-d2	4.02	63	329021	22.19	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.76%
20) 2-Butanone-d5	7.07	46	114521	51.15	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.30%
24) Chloroform-d	7.65	84	344510	23.96	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.84%
26) 1,2-Dichloroethane-d4	8.30	65	210669	23.86	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.44%
29) Benzene-d6	8.27	84	631269	23.44	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.76%
33) 1,2-Dichloropropane-d6	9.27	67	198141	23.82	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.28%
37) Toluene-d8	10.32	98	586031	23.53	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.12%
38) trans-1,3-Dichloropropene-	10.58	79	93514	23.57	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.28%
39) 2-Hexanone-d5	10.93	63	81048	51.68	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.36%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	186347	24.09	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.36%
61) 1,2-Dichlorobenzene-d4	13.86	152	221498	24.22	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.88%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	138543	19.958	ug/L	88
3) Chloromethane	2.22	50	144016	20.075	ug/L	98
5) Vinyl chloride	2.37	62	199884	21.722	ug/L	97
6) Bromomethane	2.78	94	141133	22.165	ug/L	99
8) Chloroethane	2.93	64	138349	22.907	ug/L	98
9) Trichlorofluoromethane	3.26	101	113024	20.023	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	160164	21.813	ug/L	95
12) 1,1-Dichloroethene	4.04	96	162495	23.216	ug/L	92
13) Acetone	4.12	43	96059	40.042	ug/L	100
14) Carbon disulfide	4.38	76	482921	22.197	ug/L	99
15) Methyl Acetate	4.67	43	104451	23.880	ug/L	99
16) Methylene chloride	4.92	84	196163	21.107	ug/L	95
17) Methyl tert-butyl Ether	5.42	73	275178	28.540	ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	173434	23.826	ug/L	97
19) 1,1-Dichloroethane	6.21	63	339404	24.297	ug/L	98
21) 2-Butanone	7.17	43	144322	47.303	ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	196702	25.266	ug/L	99

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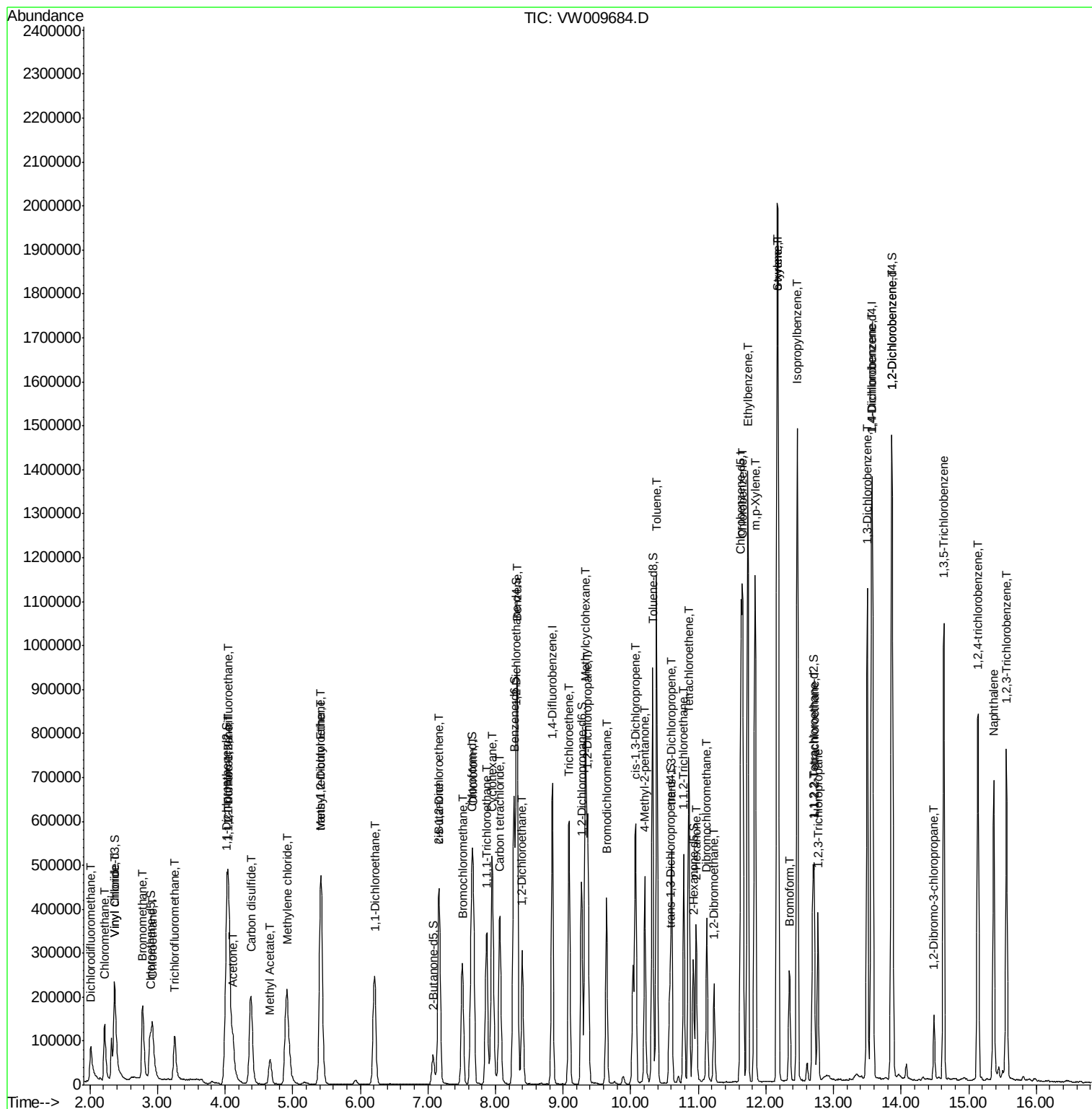
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	88983	24.913	ug/L	95
25) Chloroform	7.67	83	358757	24.518	ug/L	100
27) 1,2-Dichloroethane	8.40	62	276078	24.946	ug/L	98
30) Cyclohexane	7.95	56	290783	24.010	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	272899	23.444	ug/L	99
32) Carbon tetrachloride	8.07	117	264402	22.656	ug/L	99
34) Benzene	8.32	78	740319	23.980	ug/L	100
35) Trichloroethene	9.09	95	191426	23.693	ug/L	99
36) Methylcyclohexane	9.34	83	306684	23.088	ug/L	98
40) 1,2-Dichloropropane	9.37	63	190503	24.106	ug/L	99
41) Bromodichloromethane	9.64	83	265770	24.373	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	305319	24.938	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	317588	51.735	ug/L	99
44) Toluene	10.38	91	800523	24.478	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	261961	24.817	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	146433	24.686	ug/L	95
47) Tetrachloroethene	10.86	164	146040	22.950	ug/L	98
49) 2-Hexanone	10.97	43	228746	50.044	ug/L	99
50) Dibromochloromethane	11.13	129	179507	24.632	ug/L	97
51) 1,2-Dibromoethane	11.24	107	148123	24.914	ug/L	96
52) Chlorobenzene	11.66	112	508332	24.147	ug/L	99
53) Ethylbenzene	11.73	91	917854	24.637	ug/L	99
54) m,p-Xylene	11.84	106	340376	24.702	ug/L	96
55) o-xylene	12.16	106	334876	25.518	ug/L	95
56) Styrene	12.18	104	583365	25.619	ug/L	99
57) Isopropylbenzene	12.46	105	916838	25.514	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	192167	24.092	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	144022	24.256	ug/L	100
62) Bromoform	12.35	173	106891	23.324	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	406776	25.229	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	405435	23.581	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	382225	24.779	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	36334	24.198	ug/L	99
67) 1,3,5-Trichlorobenzene	14.63	180	296742	24.805	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	252009	26.231	ug/L	100
69) Naphthalene	15.37	128	552297	28.602	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	234072	26.044	ug/L	99

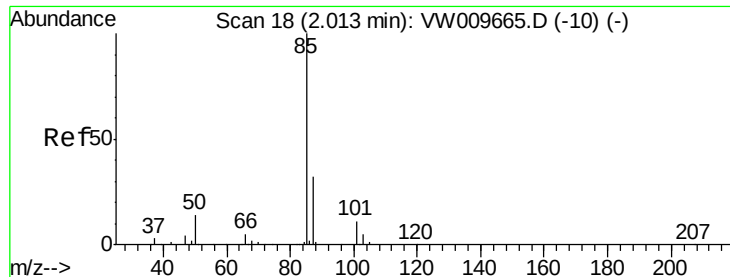
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 19.958 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

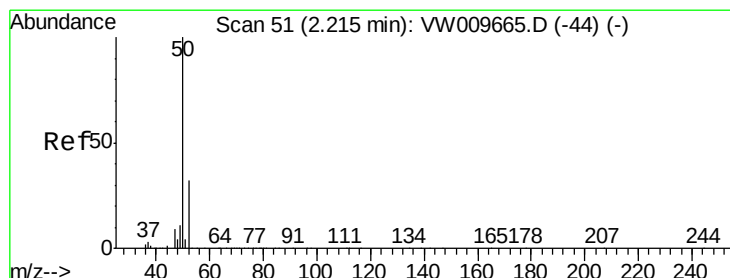
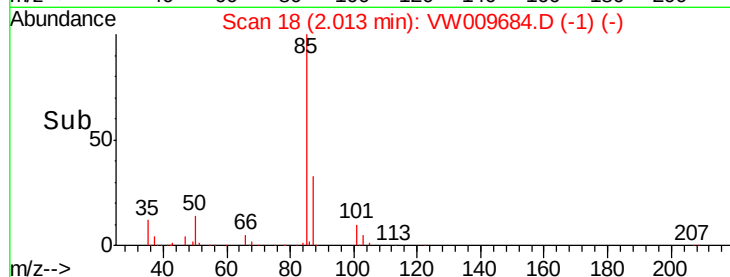
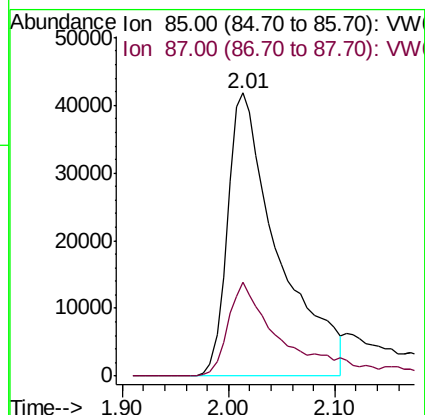
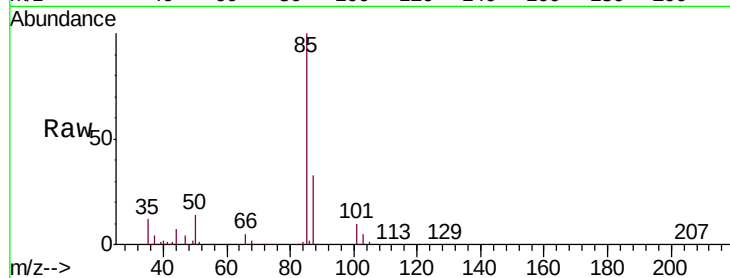
VSTD02511

Tgt Ion: 85 Resp: 138543

Ion Ratio Lower Upper

85 100

87 31.7 18.1 33.5



#3

Chloromethane

Concen: 20.075 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW009684.D

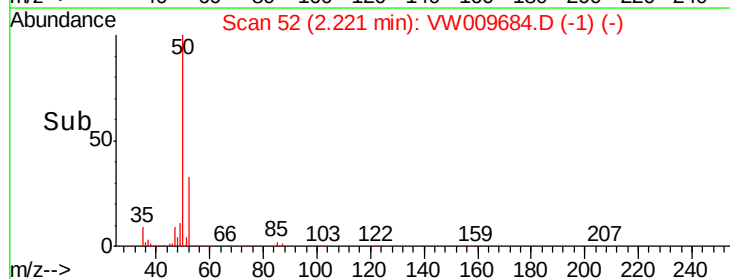
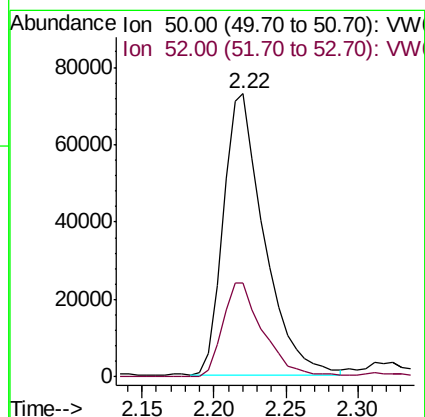
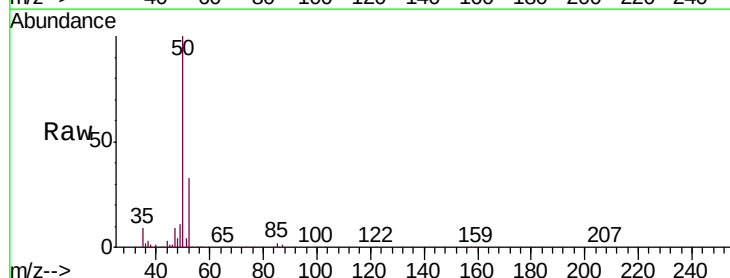
Acq: 04 Apr 2019 04:33

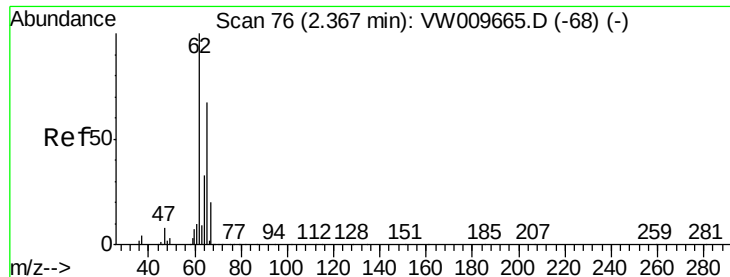
Tgt Ion: 50 Resp: 144016

Ion Ratio Lower Upper

50 100

52 33.1 22.3 41.3





#5

Vinyl chloride

Concen: 21.722 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

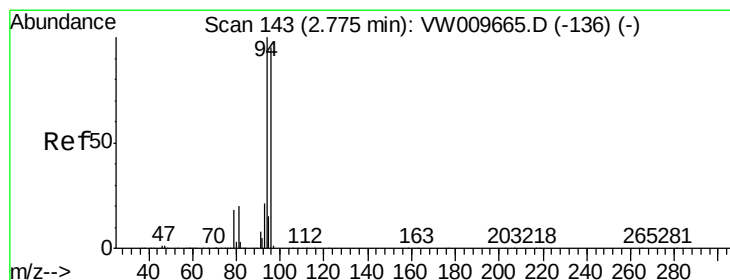
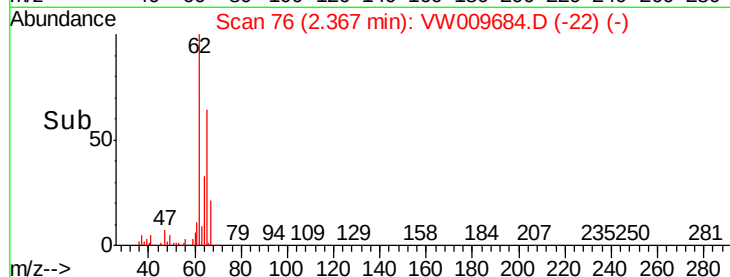
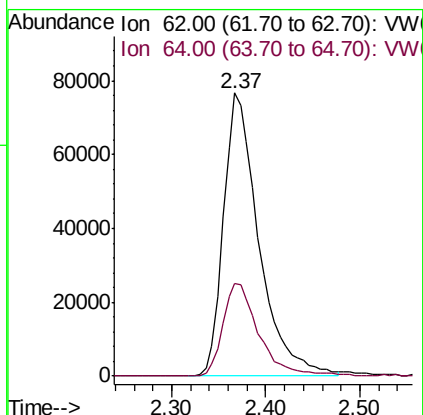
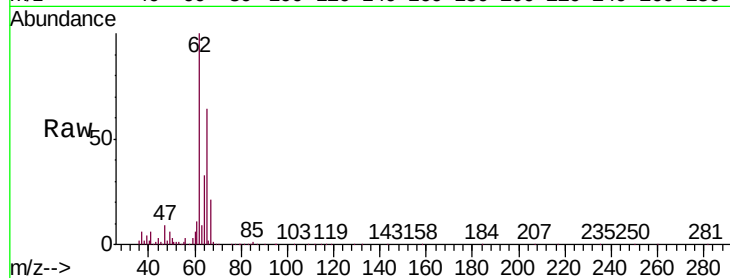
VSTD02511

Tgt Ion: 62 Resp: 199884

Ion Ratio Lower Upper

62 100

64 32.6 21.8 40.6



#6

Bromomethane

Concen: 22.165 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW009684.D

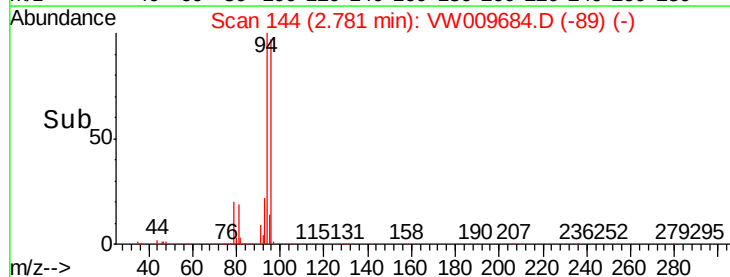
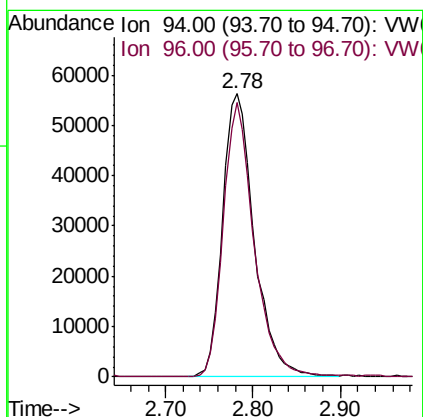
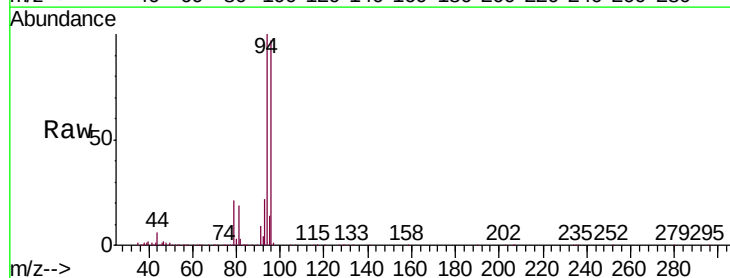
Acq: 04 Apr 2019 04:33

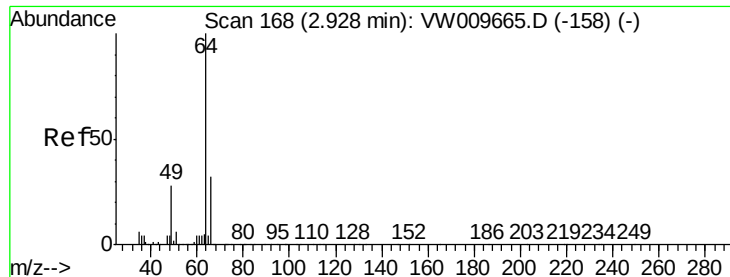
Tgt Ion: 94 Resp: 141133

Ion Ratio Lower Upper

94 100

96 94.2 9.3 177.3





#8

Chloroethane

Concen: 22.907 ug/L

RT: 2.93 min Scan# 169

Delta R.T. 0.01 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

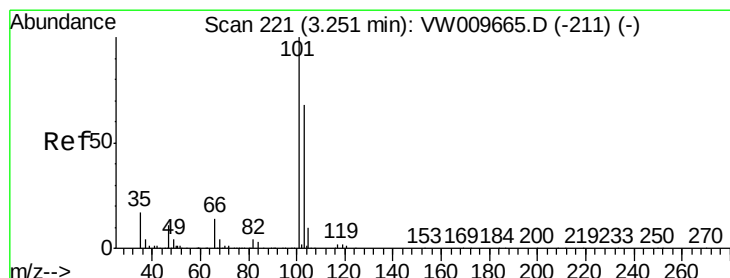
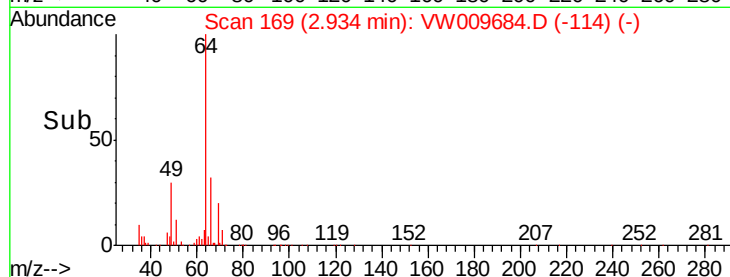
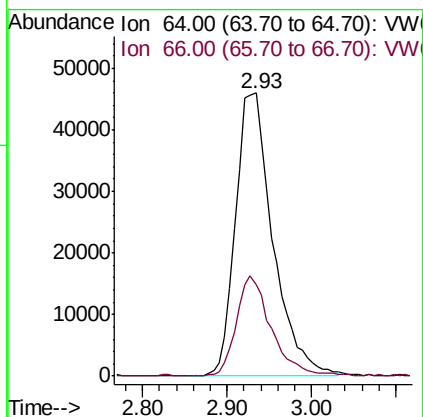
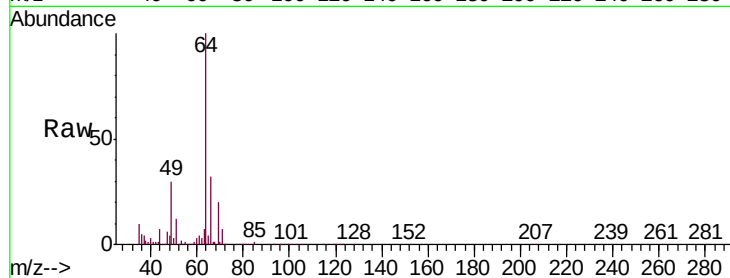
VSTD02511

Tgt Ion: 64 Resp: 138349

Ion Ratio Lower Upper

64 100

66 32.1 21.6 40.2



#9

Trichlorofluoromethane

Concen: 20.023 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW009684.D

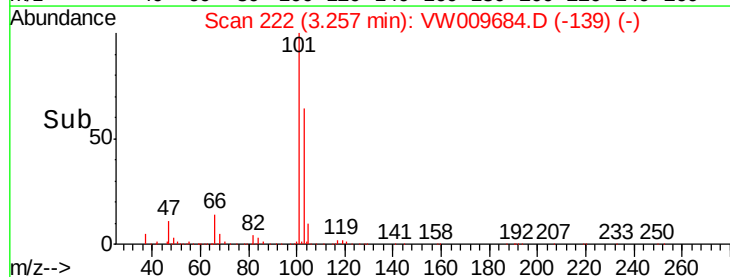
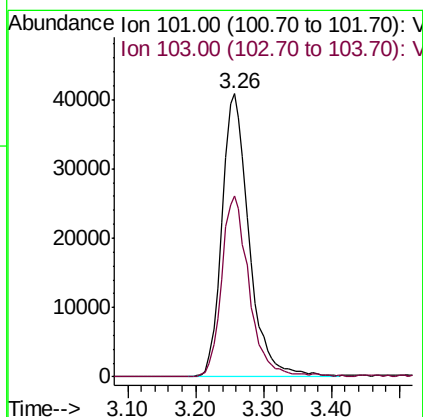
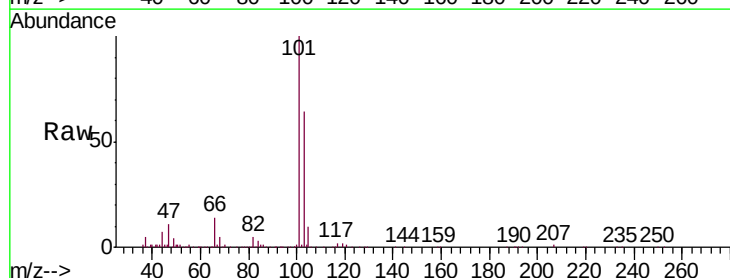
Acq: 04 Apr 2019 04:33

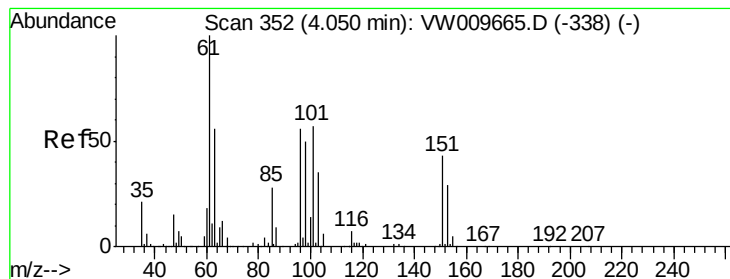
Tgt Ion: 101 Resp: 113024

Ion Ratio Lower Upper

101 100

103 63.6 45.1 83.7





#11

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

Concen: 21.813 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

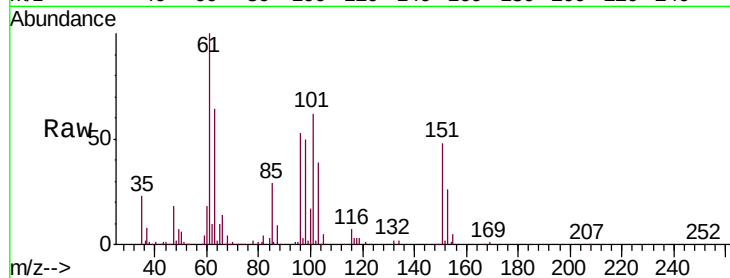
Tgt Ion:101 Resp: 160164

Ion Ratio Lower Upper

101 100

85 43.9 37.8 56.6

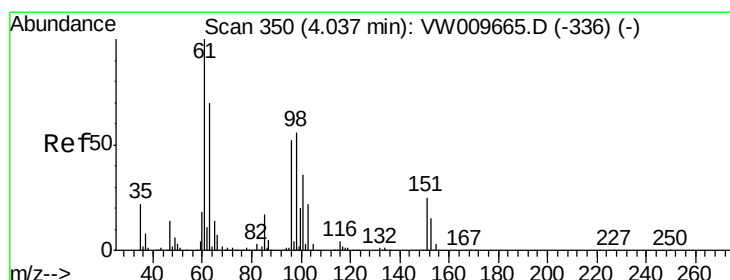
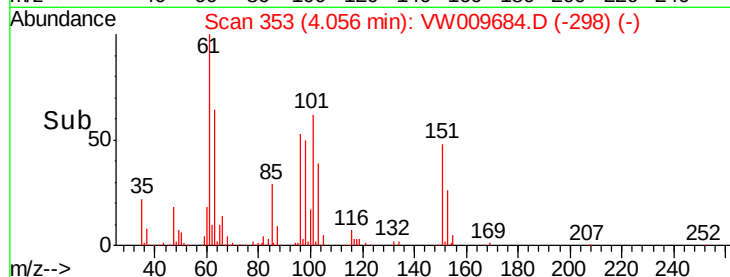
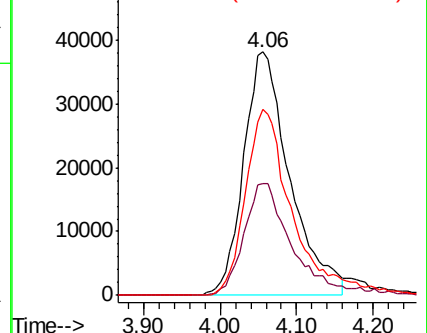
151 71.9 60.6 91.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.216 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

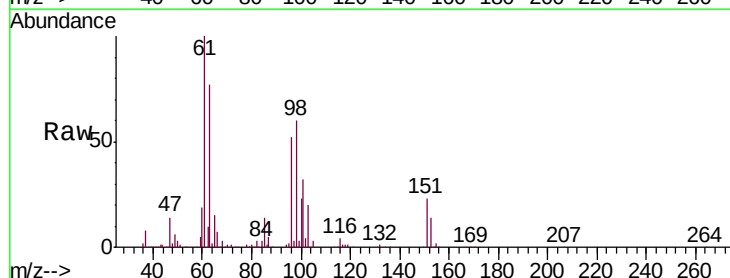
Tgt Ion: 96 Resp: 162495

Ion Ratio Lower Upper

96 100

61 192.4 138.8 257.8

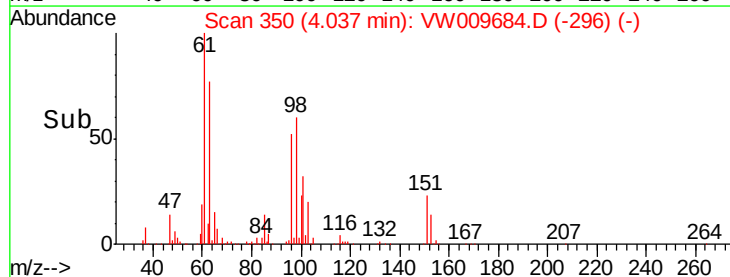
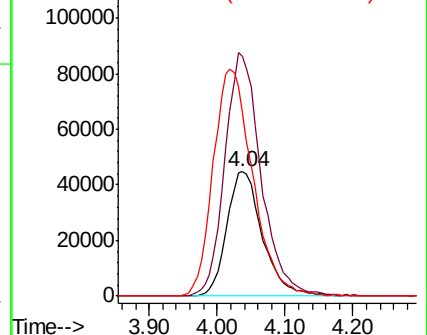
63 147.4 114.6 212.8

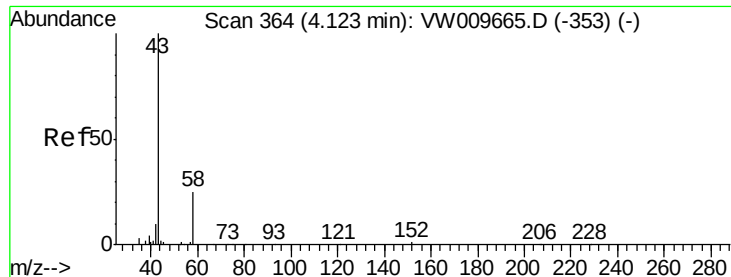


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 40.042 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

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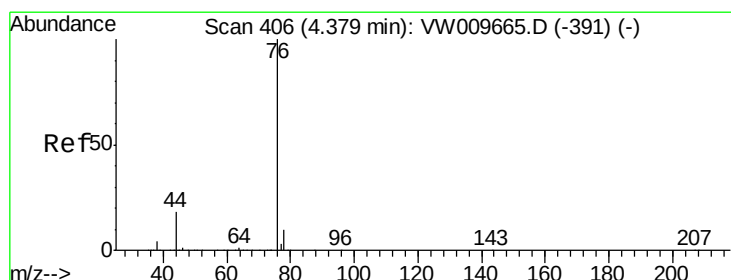
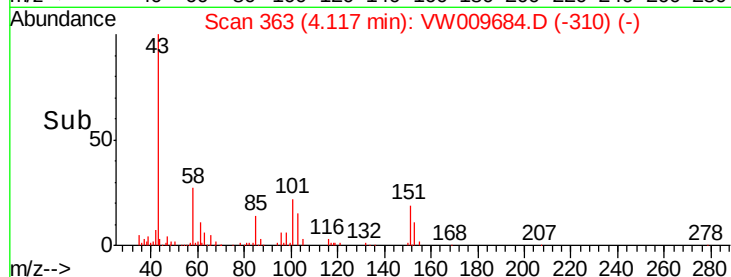
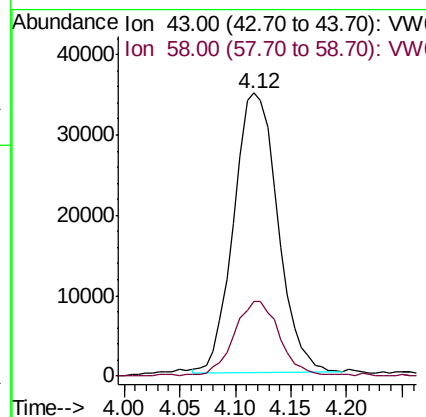
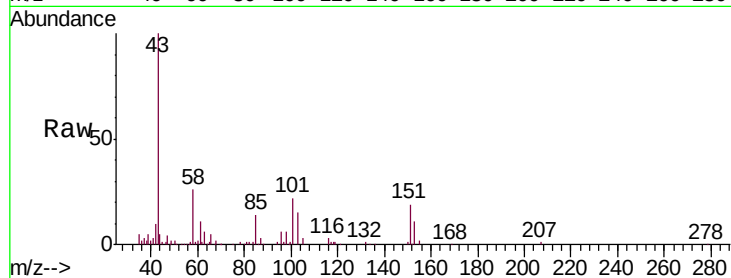
VSTD02511

Tgt Ion: 43 Resp: 96059

Ion Ratio Lower Upper

43 100

58 26.6 0.0 53.0



#14

Carbon disulfide

Concen: 22.197 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW009684.D

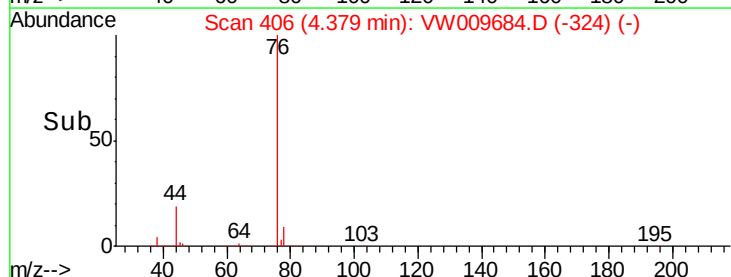
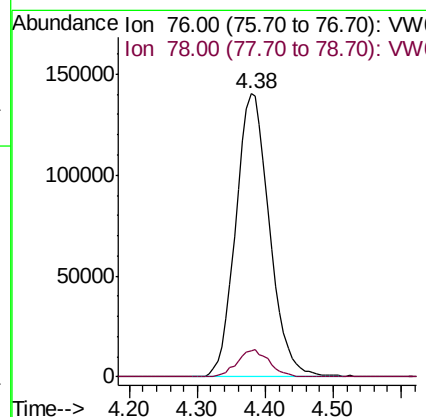
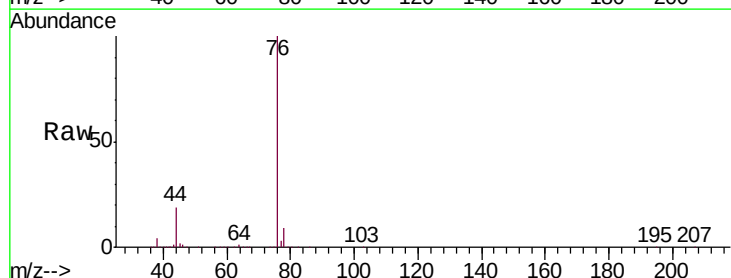
Acq: 04 Apr 2019 04:33

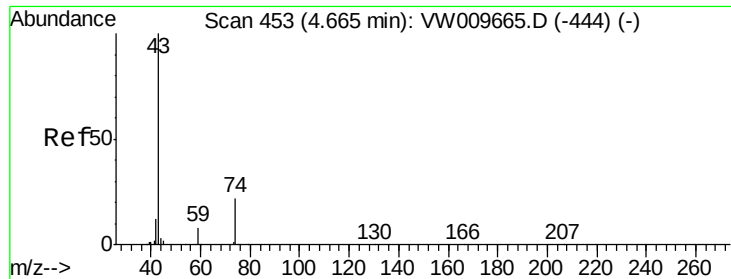
Tgt Ion: 76 Resp: 482921

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9

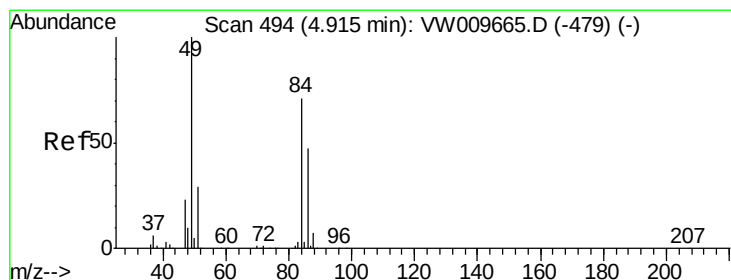
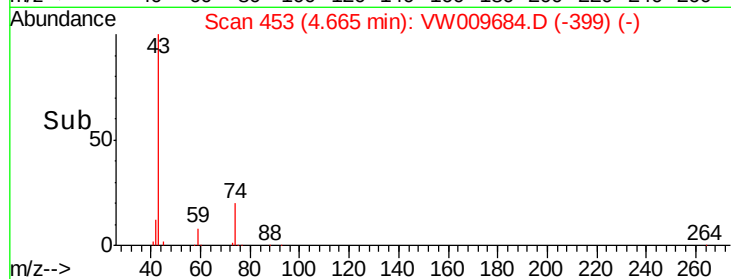
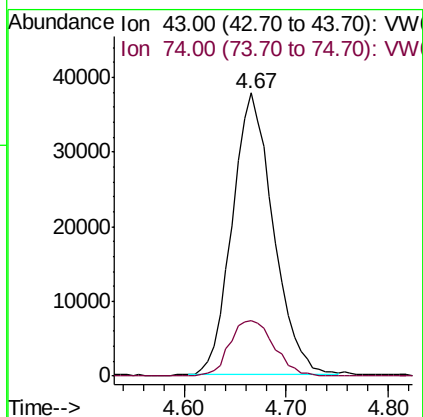
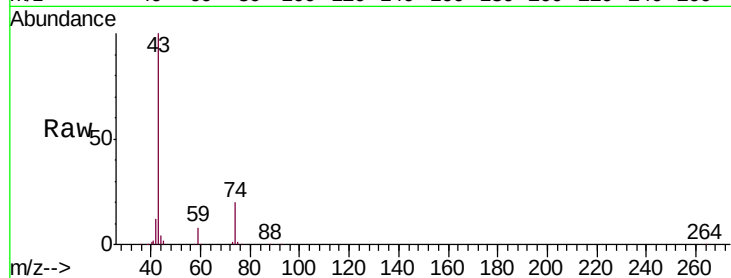




#15
Methyl Acetate
Concen: 23.880 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

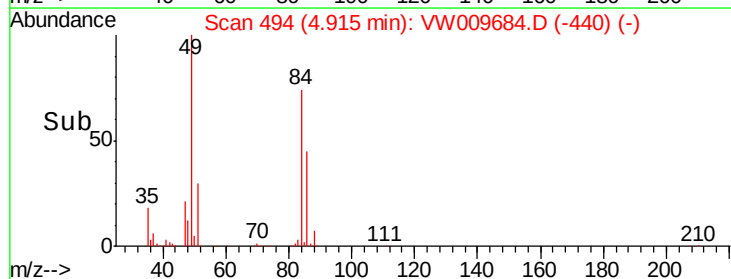
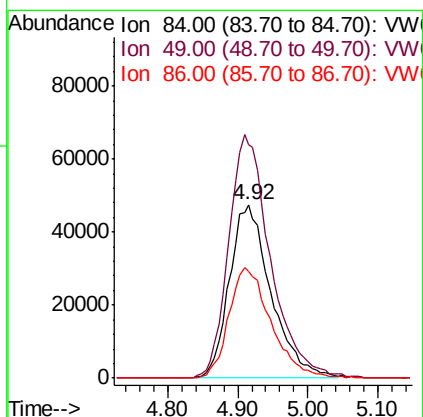
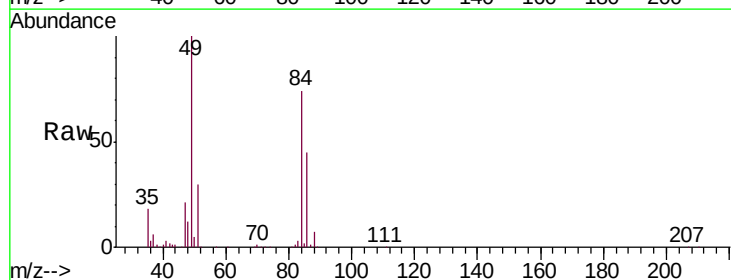
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

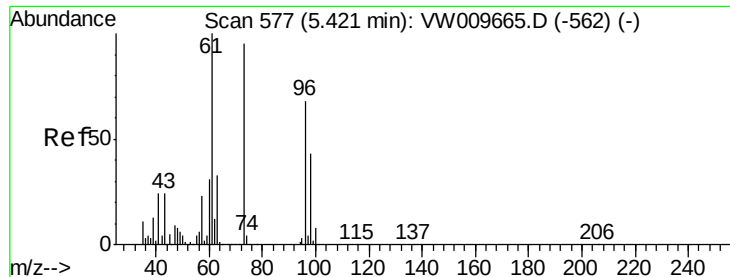
Tgt Ion: 43 Resp: 104451
Ion Ratio Lower Upper
43 100
74 21.2 17.2 25.8



#16
Methylene chloride
Concen: 21.107 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

Tgt Ion: 84 Resp: 196163
Ion Ratio Lower Upper
84 100
49 134.7 98.3 182.5
86 61.3 46.4 86.2

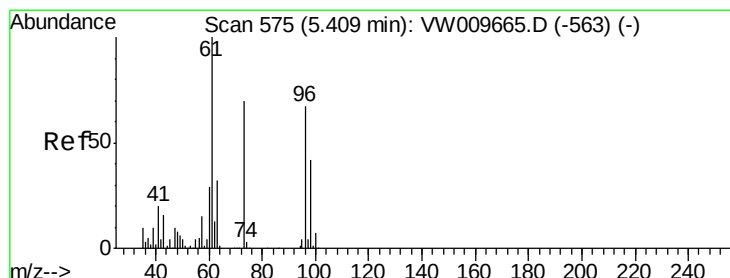
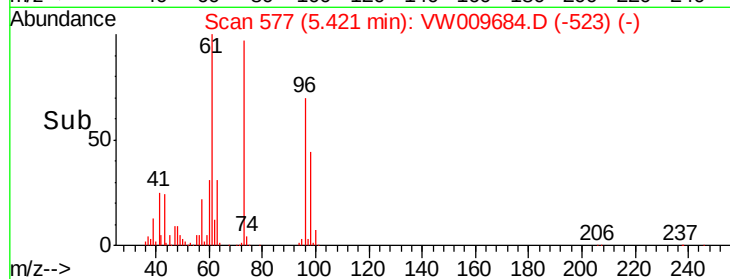
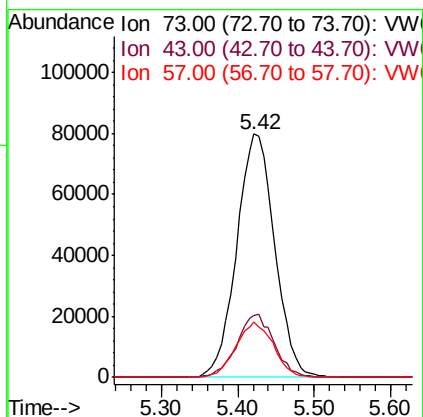
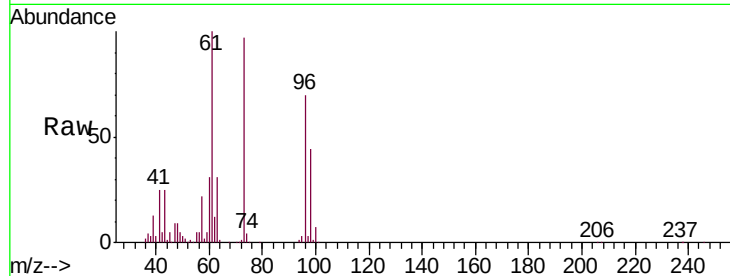




#17
Methyl tert-butyl Ether
Concen: 28.540 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

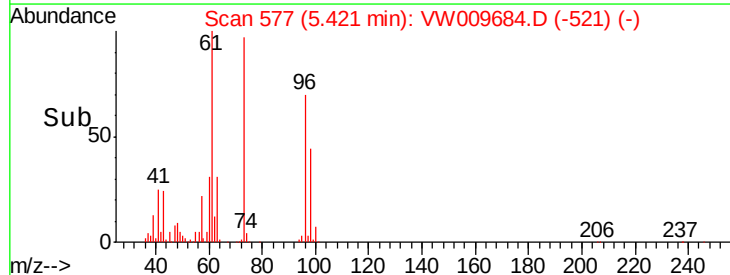
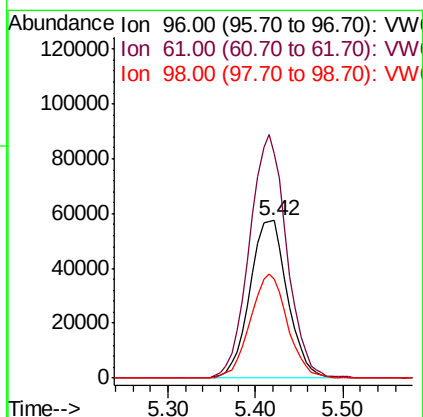
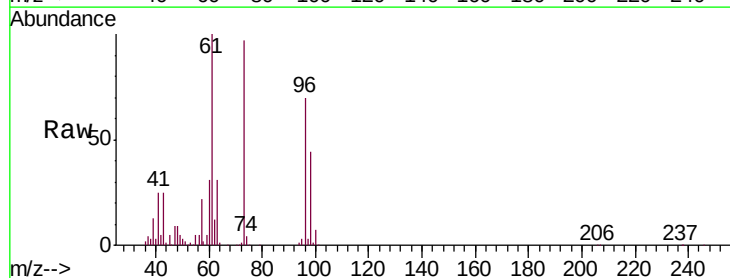
Instrument :
MSVOA_W
ClientSampled :
VSTD02511

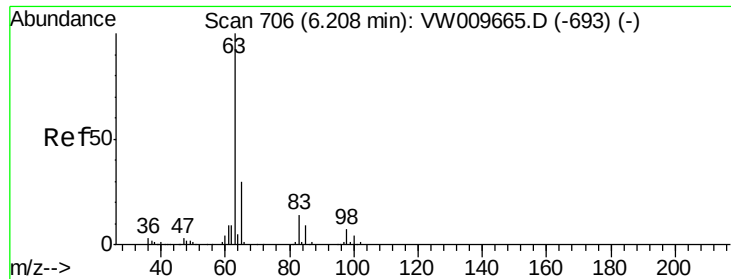
Tgt Ion: 73 Resp: 275178
Ion Ratio Lower Upper
73 100
43 25.1 20.2 30.2
57 22.3 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 23.826 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

Tgt Ion: 96 Resp: 173434
Ion Ratio Lower Upper
96 100
61 142.8 103.7 192.5
98 62.6 43.7 81.1

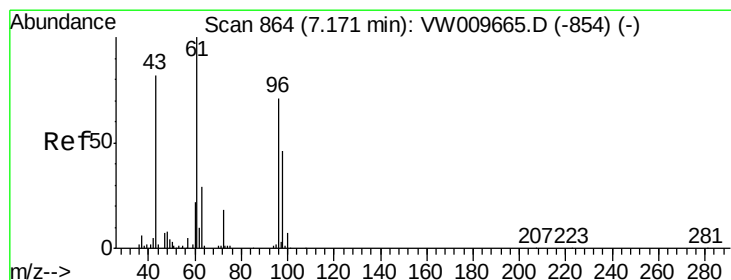
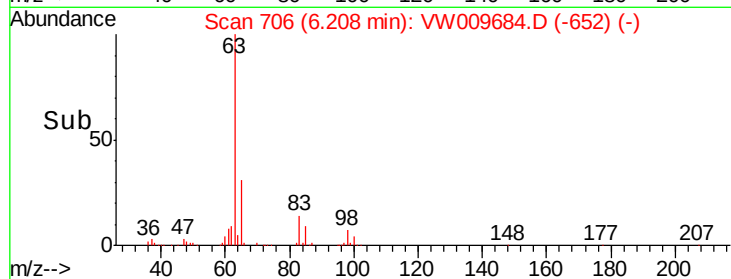
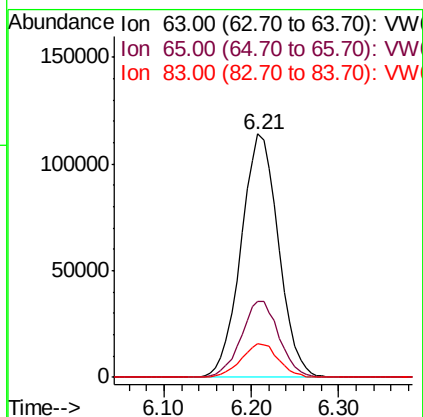
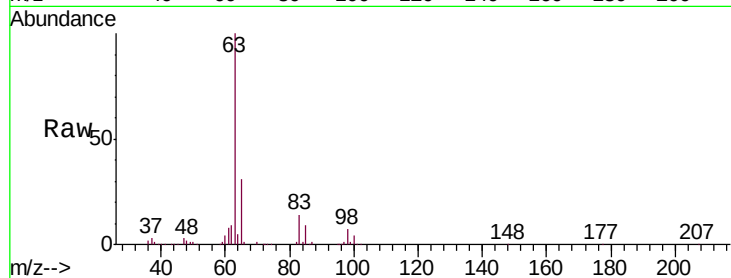




#19
 1,1-Dichloroethane
 Concen: 24.297 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

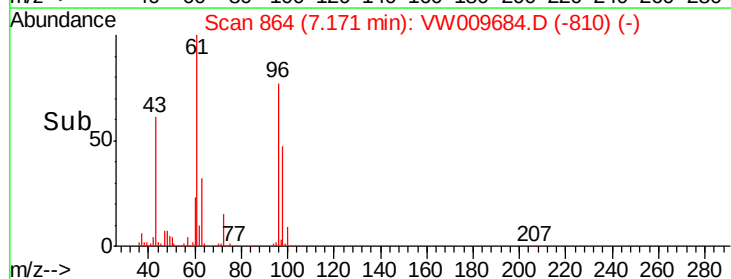
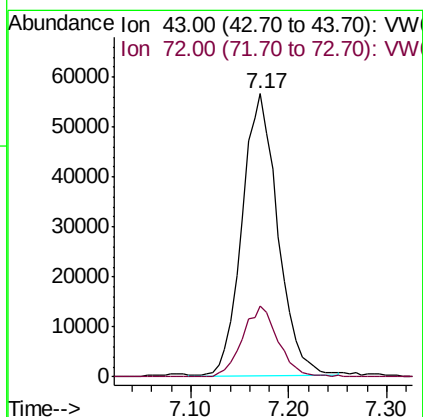
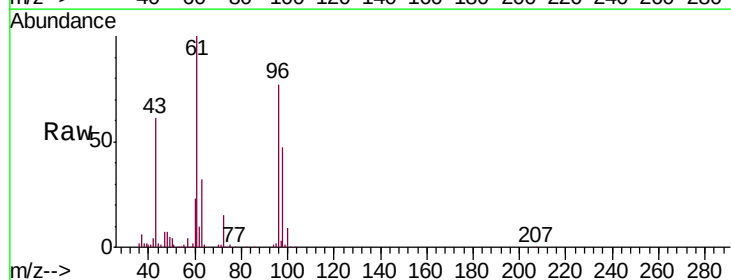
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

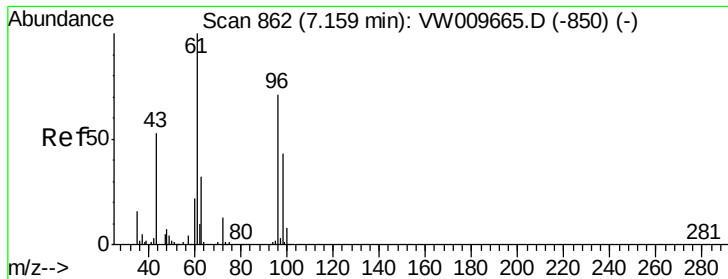
Tgt Ion: 63 Resp: 339404
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.6 42.0
 83 13.7 9.8 18.2



#21
 2-Butanone
 Concen: 47.303 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Tgt Ion: 43 Resp: 144322
 Ion Ratio Lower Upper
 43 100
 72 24.7 12.0 36.1



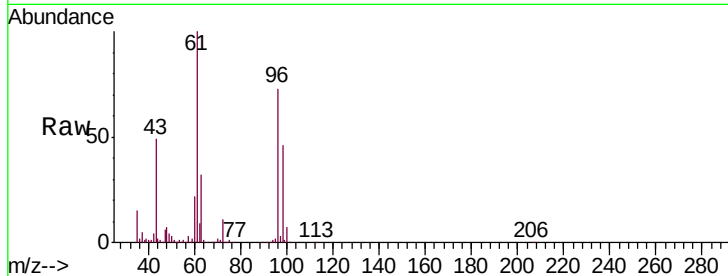


#22

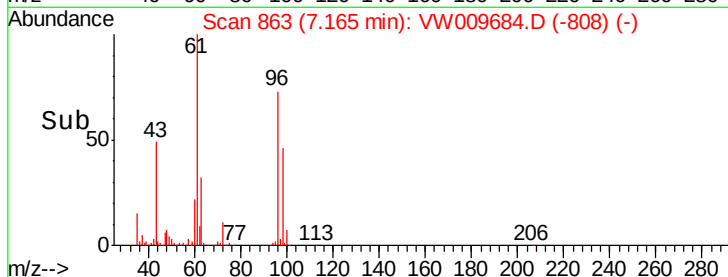
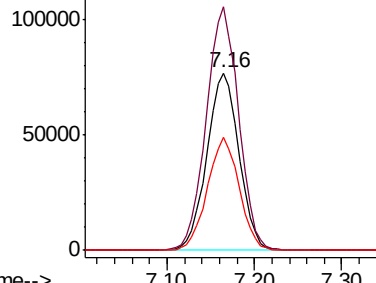
cis-1,2-Dichloroethene
 Concen: 25.266 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02511

Tgt Ion: 96 Resp: 196702
 Ion Ratio Lower Upper
 96 100
 61 137.3 96.8 179.8
 98 63.6 43.5 80.9



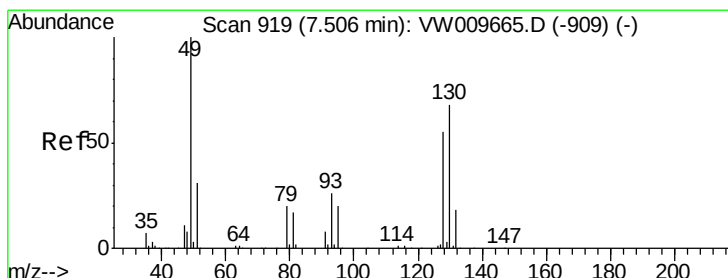
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



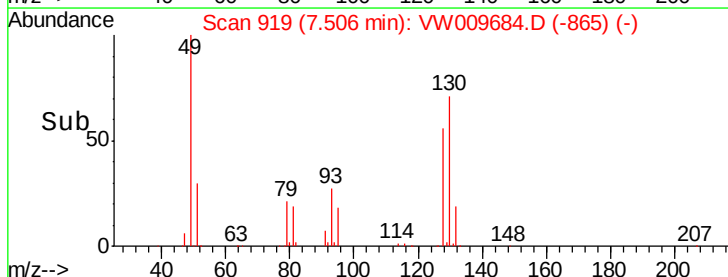
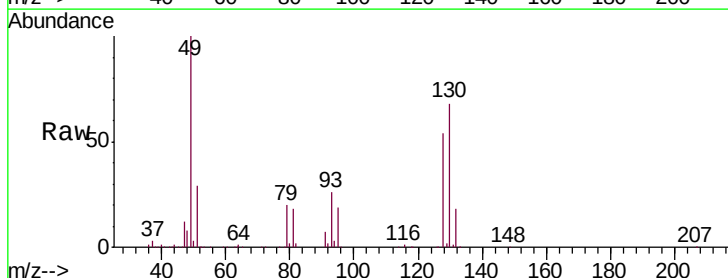
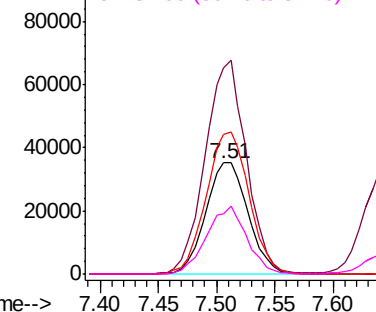
#23

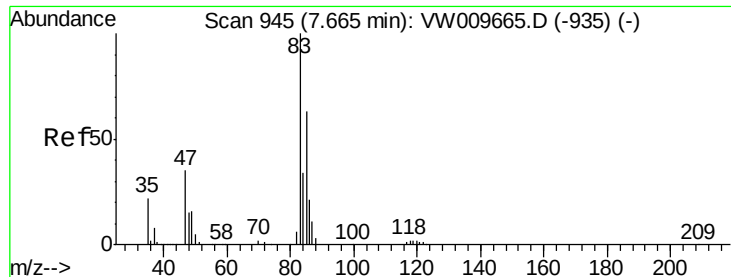
Bromochloromethane
 Concen: 24.913 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Tgt Ion: 128 Resp: 88983
 Ion Ratio Lower Upper
 128 100
 49 186.6 132.6 246.2
 130 126.2 95.5 177.4
 51 54.6 48.6 73.0



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

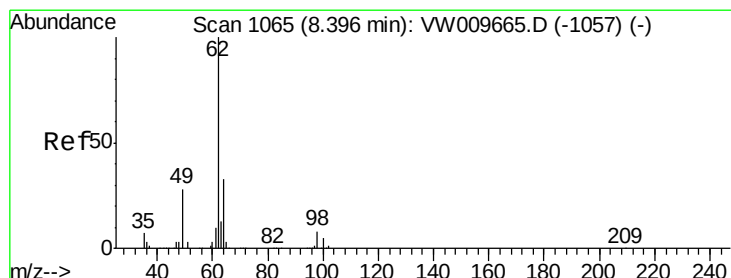
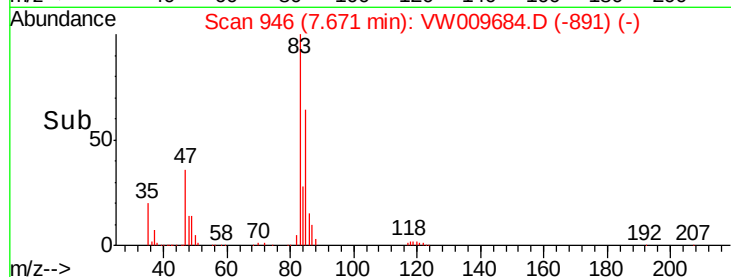
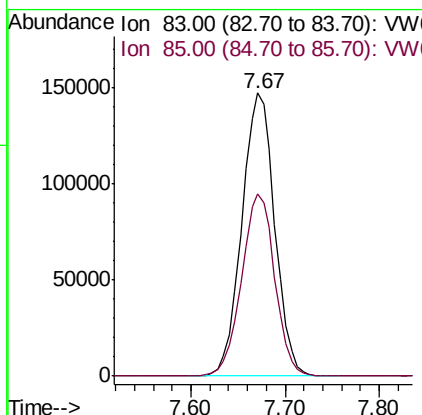
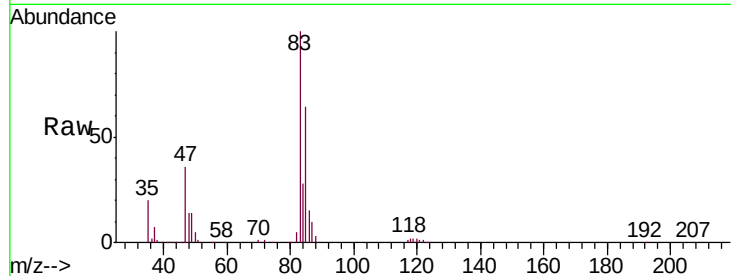




#25
Chloroform
Concen: 24.518 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.01 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

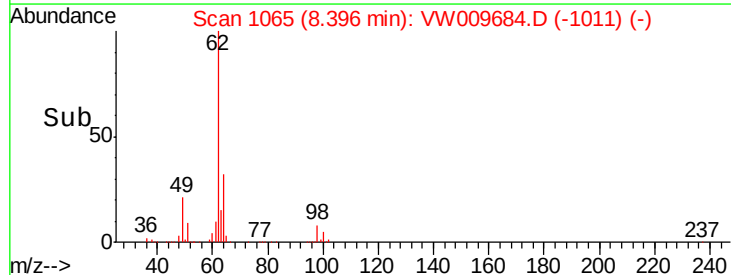
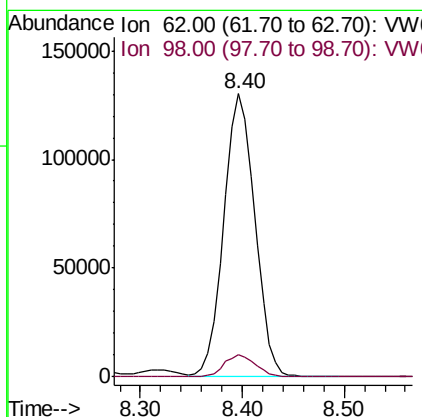
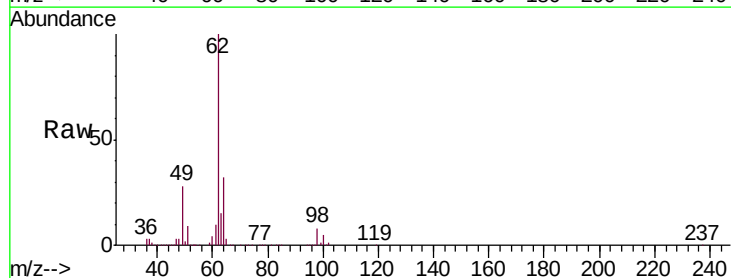
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

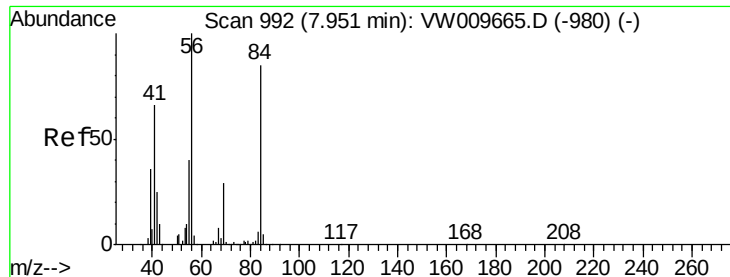
Tgt Ion: 83 Resp: 358757
Ion Ratio Lower Upper
83 100
85 65.0 45.6 84.8



#27
1,2-Dichloroethane
Concen: 24.946 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

Tgt Ion: 62 Resp: 276078
Ion Ratio Lower Upper
62 100
98 7.9 7.0 10.4

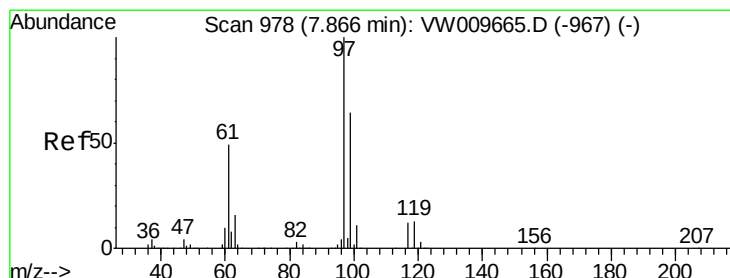
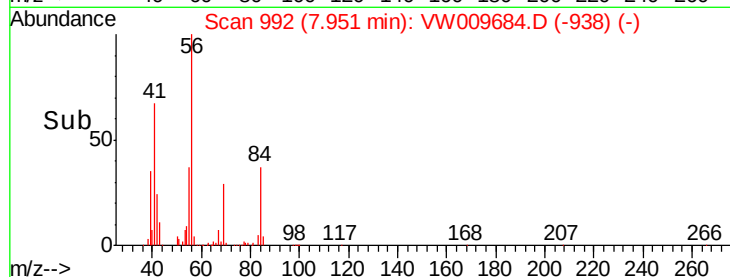
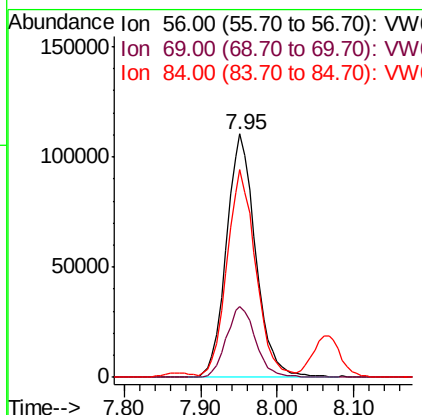
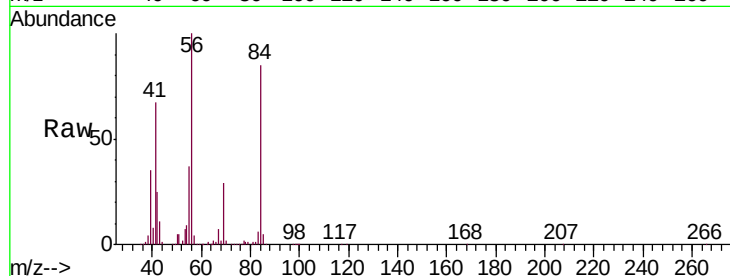




#30
Cyclohexane
Concen: 24.010 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

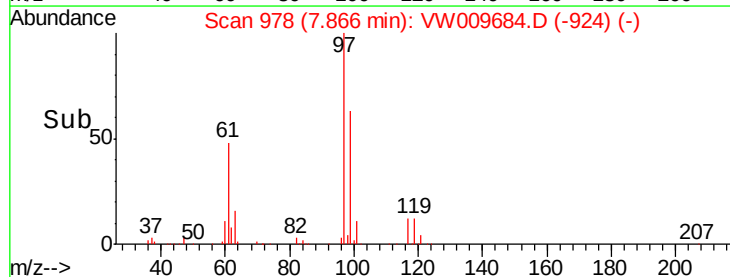
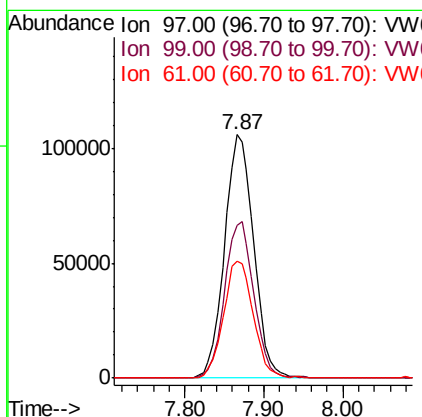
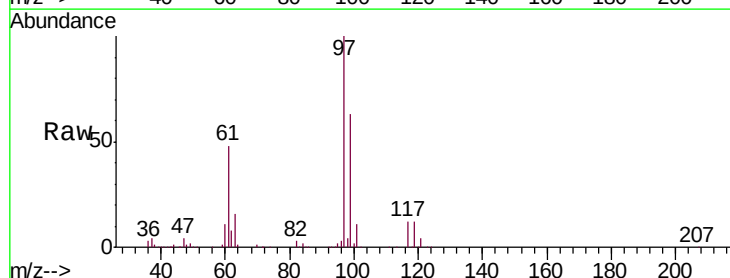
Instrument :
MSVOA_W
ClientSampled :
VSTD02511

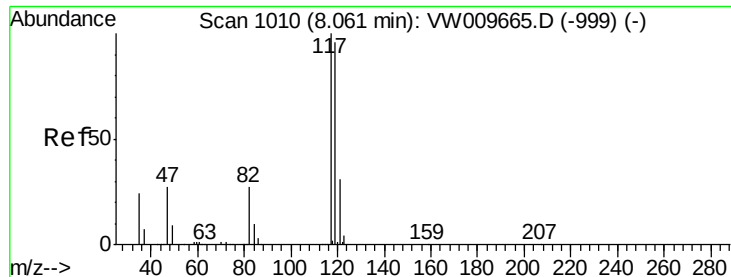
Tgt Ion: 56 Resp: 290783
Ion Ratio Lower Upper
56 100
69 29.1 23.4 35.2
84 84.4 67.7 101.5



#31
1,1,1-Trichloroethane
Concen: 23.444 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.00 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

Tgt Ion: 97 Resp: 272899
Ion Ratio Lower Upper
97 100
99 64.2 50.8 76.2
61 48.7 38.6 57.8





#32

Carbon tetrachloride

Concen: 22.656 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

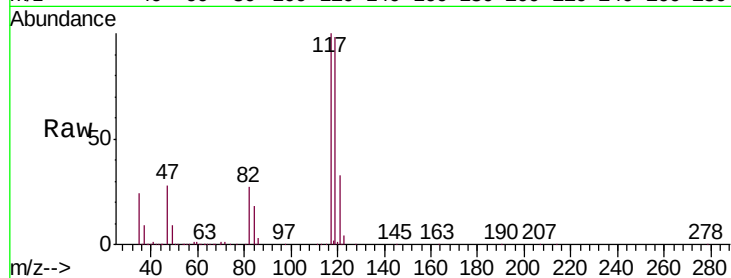
VSTD02511

Tgt Ion:117 Resp: 264402

Ion Ratio Lower Upper

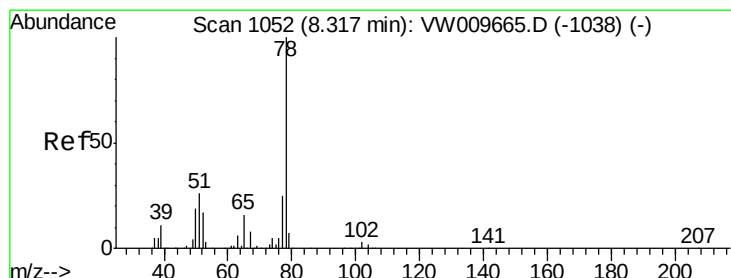
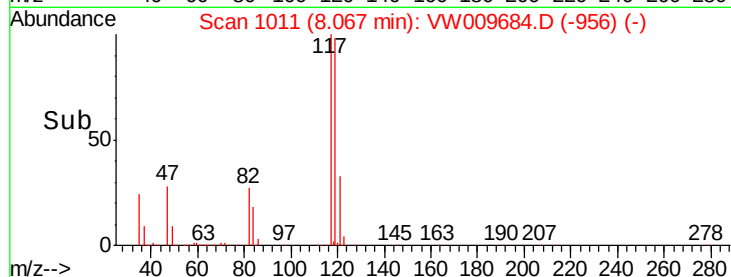
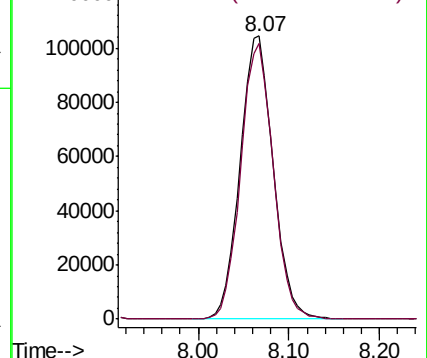
117 100

119 95.6 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.980 ug/L

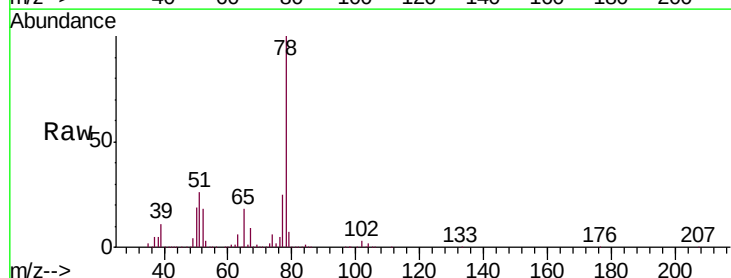
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

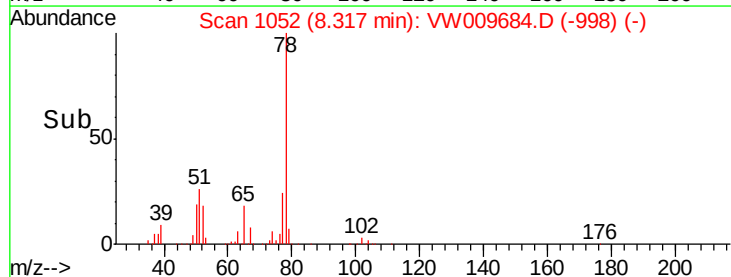
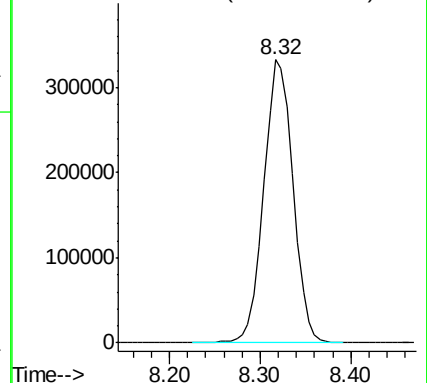
Lab File: VW009684.D

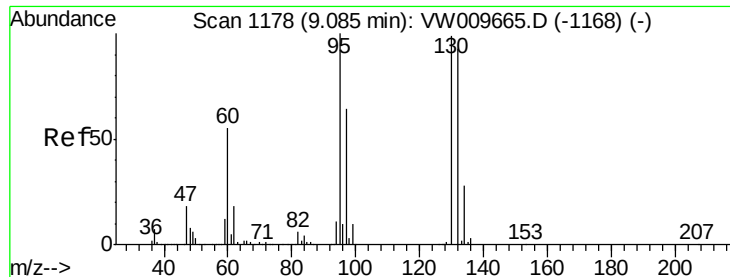
Acq: 04 Apr 2019 04:33

Tgt Ion: 78 Resp: 740319



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.693 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

Tgt Ion: 95 Resp: 191426

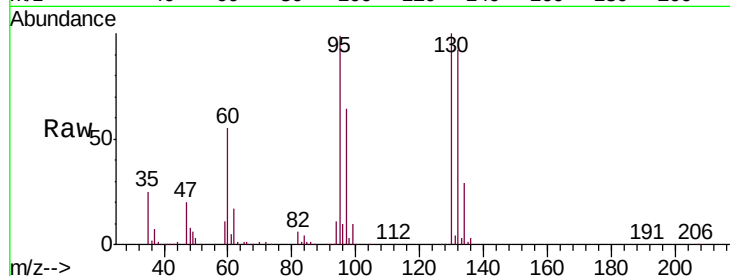
Ion Ratio Lower Upper

95 100

97 65.3 44.9 83.5

132 95.6 67.1 124.7

130 99.8 69.2 128.6



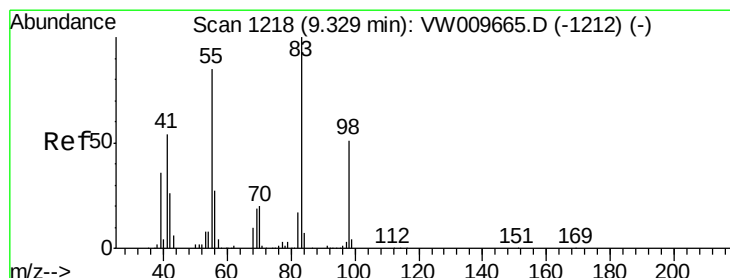
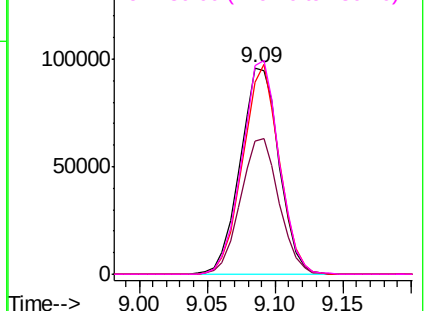
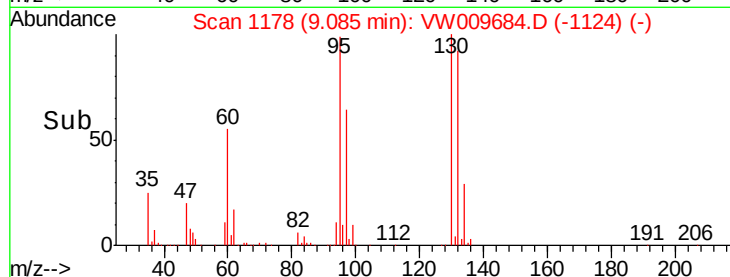
Abundance

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: 23.088 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

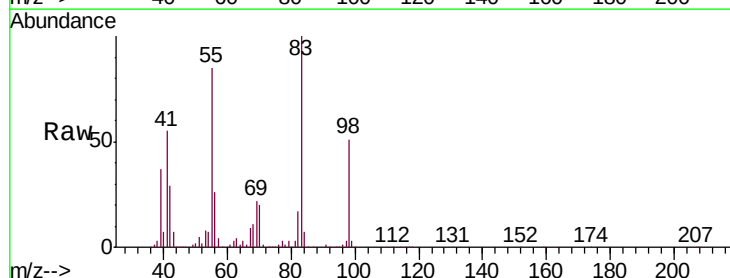
Tgt Ion: 83 Resp: 306684

Ion Ratio Lower Upper

83 100

55 83.6 66.3 99.5

98 51.2 39.4 59.0

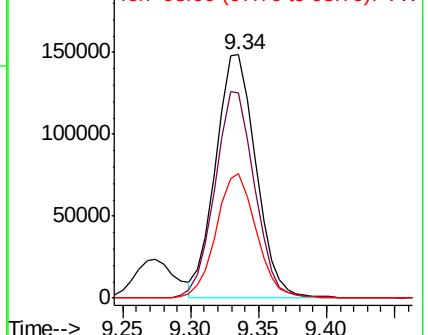
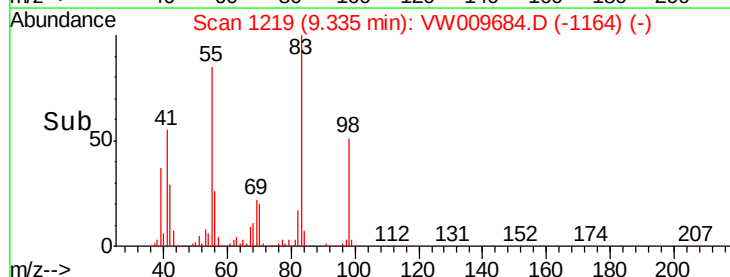


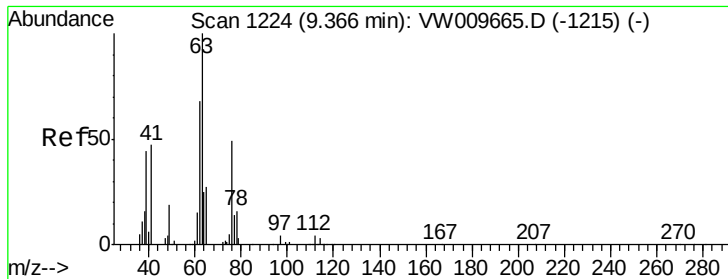
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 24.106 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampled :

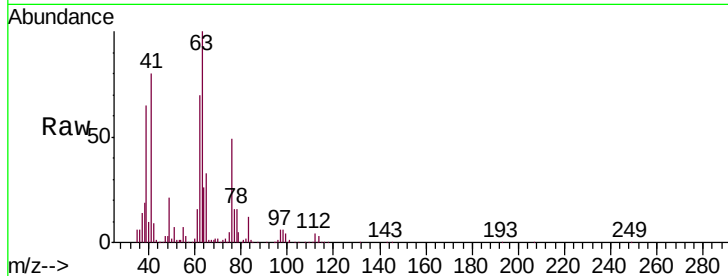
VSTD02511

Tgt Ion: 63 Resp: 190503

Ion Ratio Lower Upper

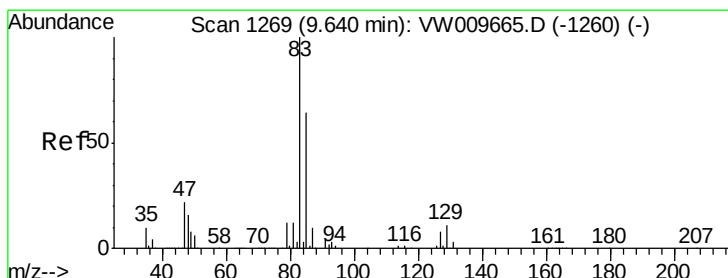
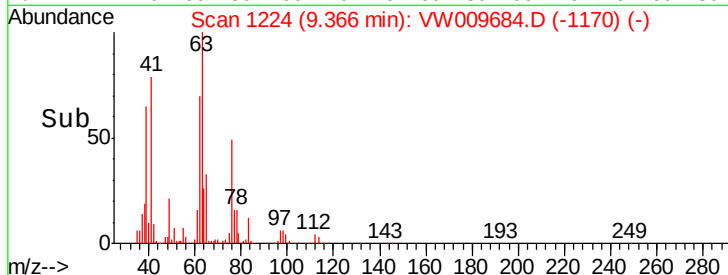
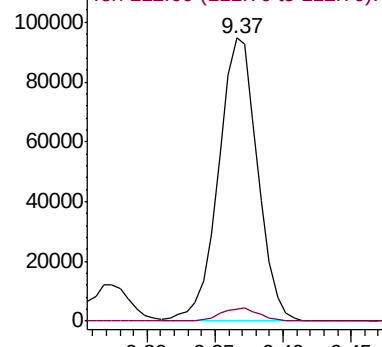
63 100

112 4.5 3.8 5.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 24.373 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

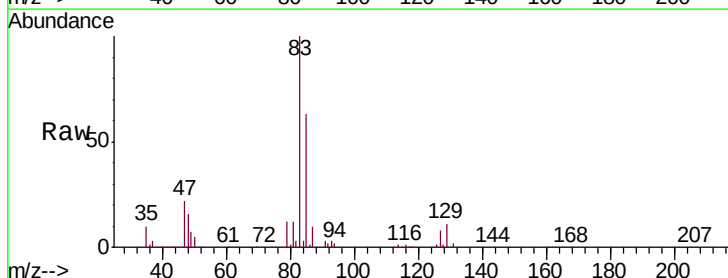
Tgt Ion: 83 Resp: 265770

Ion Ratio Lower Upper

83 100

85 62.8 45.0 83.6

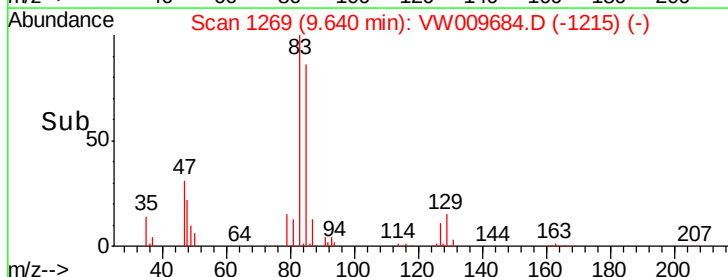
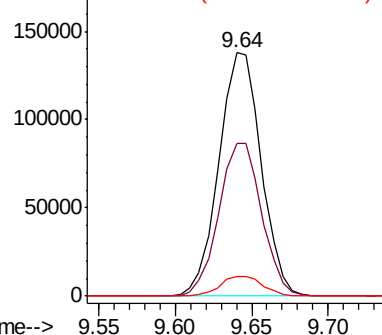
127 8.2 6.7 10.1

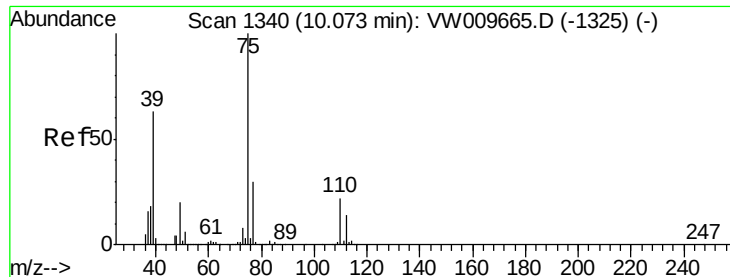


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 24.938 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

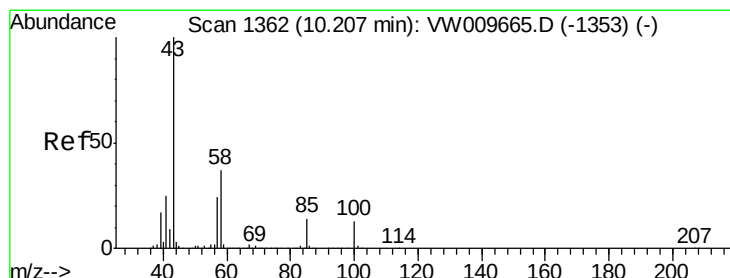
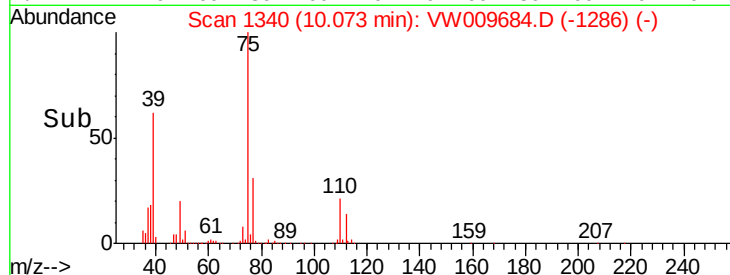
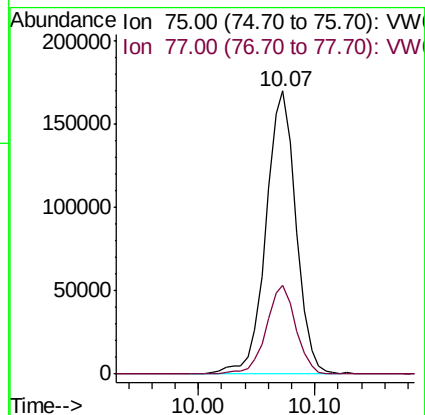
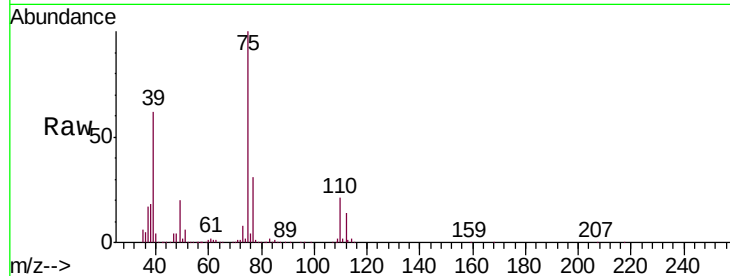
VSTD02511

Tgt Ion: 75 Resp: 305319

Ion Ratio Lower Upper

75 100

77 31.4 21.0 39.0



#43

4-Methyl-2-pentanone

Concen: 51.735 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

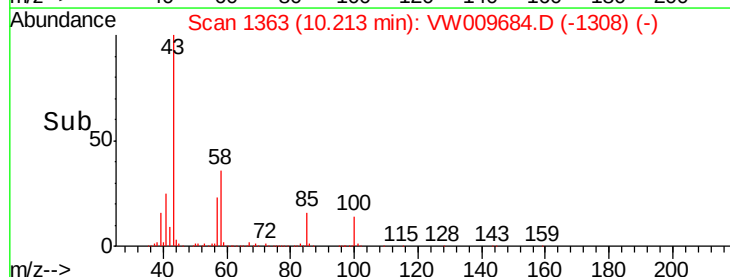
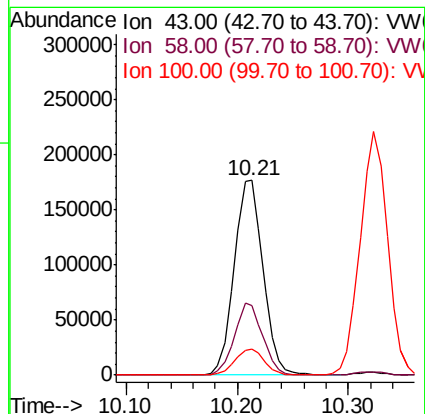
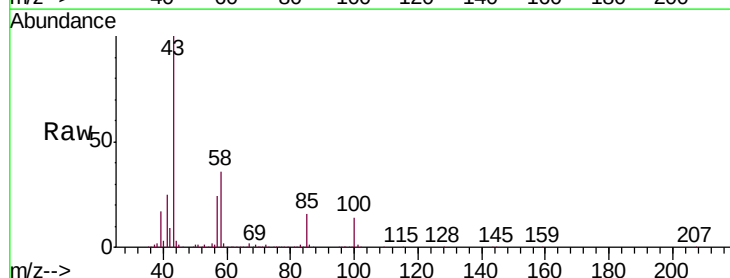
Tgt Ion: 43 Resp: 317588

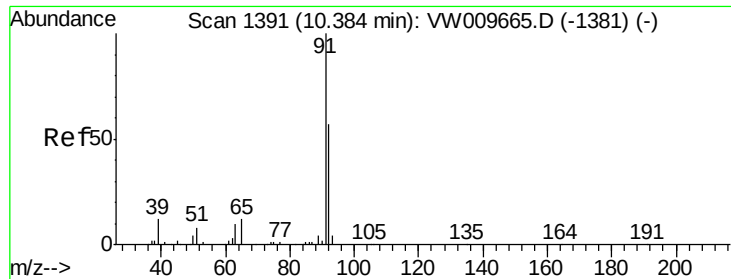
Ion Ratio Lower Upper

43 100

58 35.7 28.2 42.4

100 13.6 10.9 16.3





#44

Toluene

Concen: 24.478 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

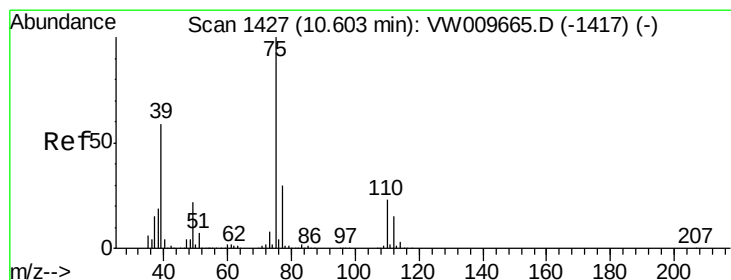
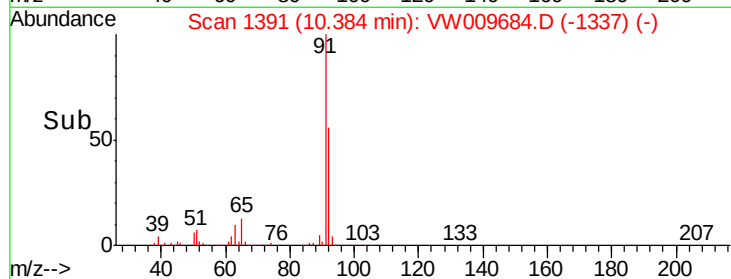
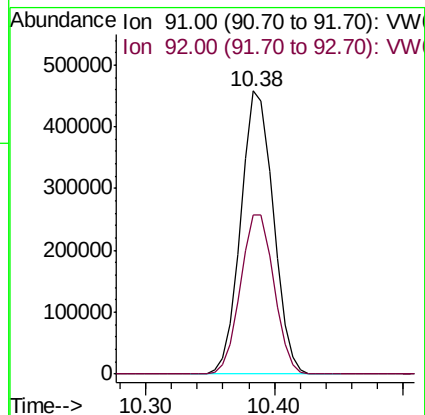
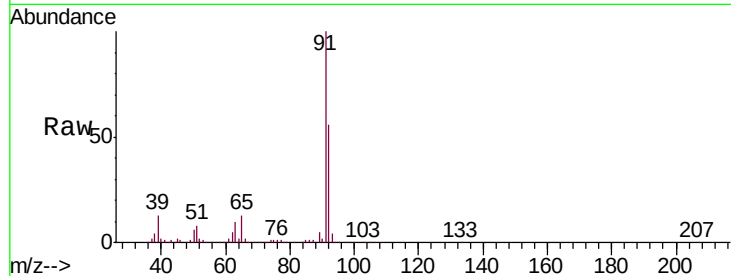
VSTD02511

Tgt Ion: 91 Resp: 800523

Ion Ratio Lower Upper

91 100

92 56.4 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 24.817 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW009684.D

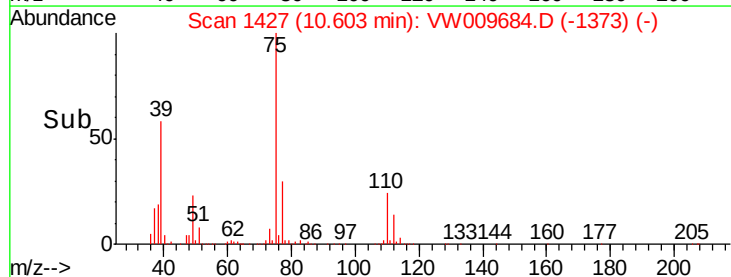
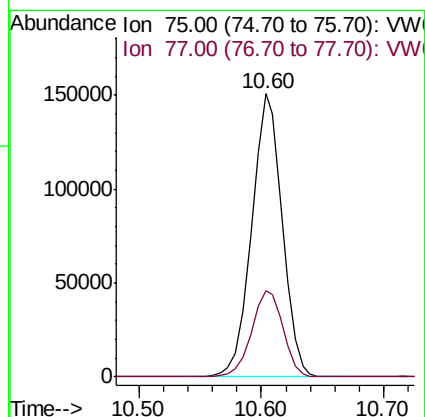
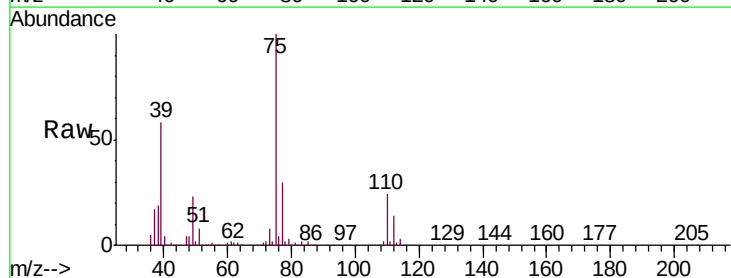
Acq: 04 Apr 2019 04:33

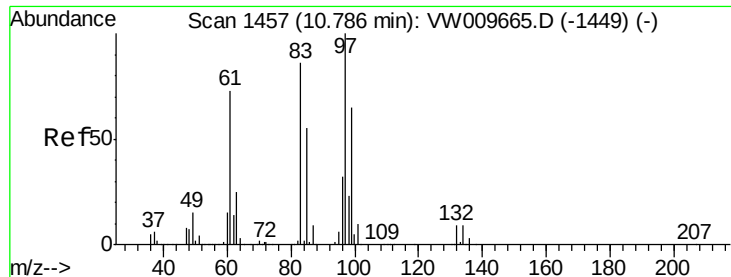
Tgt Ion: 75 Resp: 261961

Ion Ratio Lower Upper

75 100

77 30.4 21.1 39.3

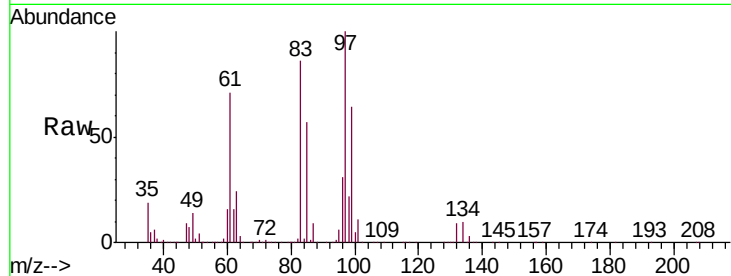




#46
 1,1,2-Trichloroethane
 Concen: 24.686 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02511

Tgt Ion:	97	Resp:	146433
Ion	Ratio	Lower	Upper
97	100		
83	86.3	57.3	106.3
85	57.2	38.1	70.7
99	63.9	40.9	75.9



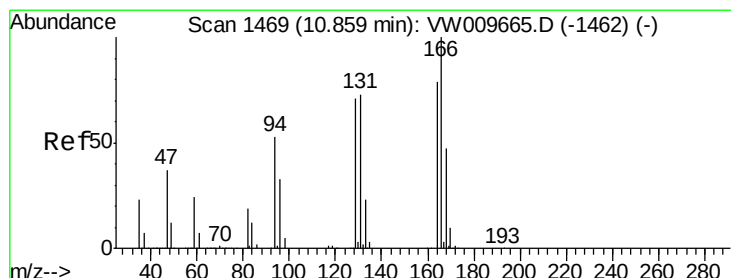
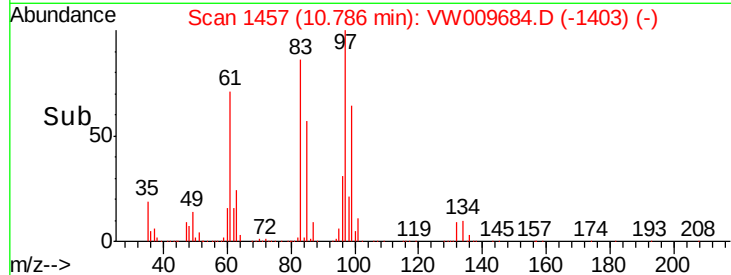
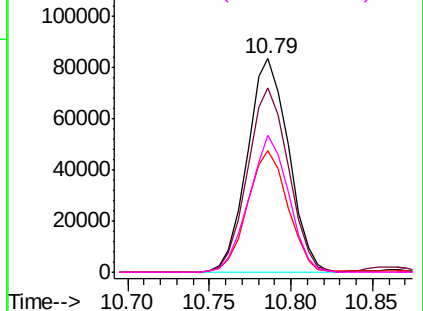
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

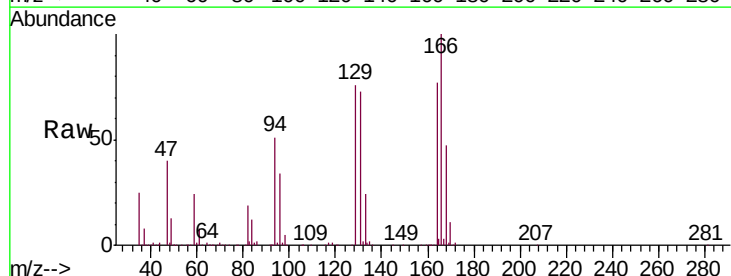
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47
 Tetrachloroethene
 Concen: 22.950 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Tgt Ion:	164	Resp:	146040
Ion	Ratio	Lower	Upper
164	100		
129	98.5	68.9	127.9
131	94.7	63.1	117.1
166	129.1	88.5	164.4



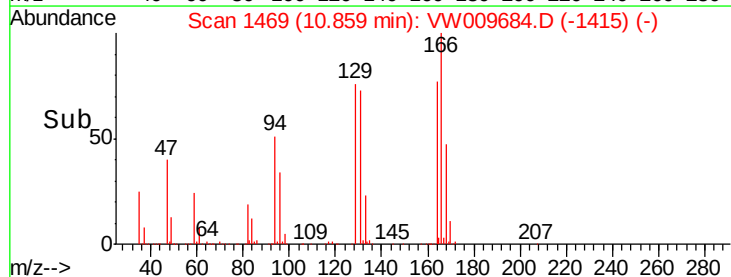
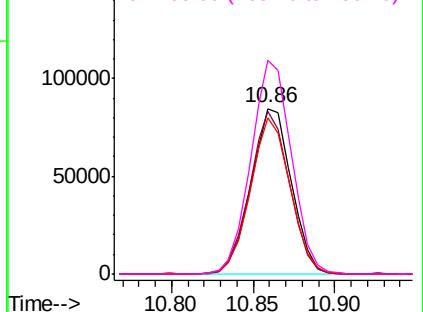
Abundance

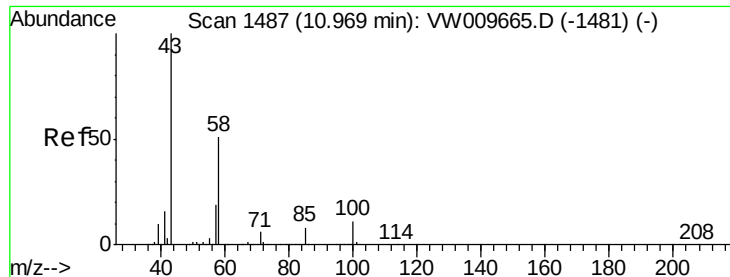
Ion 164.00 (163.70 to 164.70): V

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: 50.044 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

Tgt Ion: 43 Resp: 228746

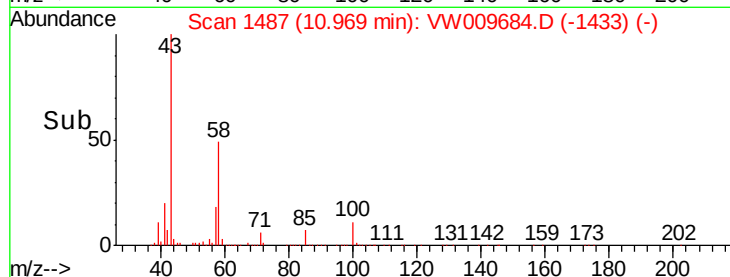
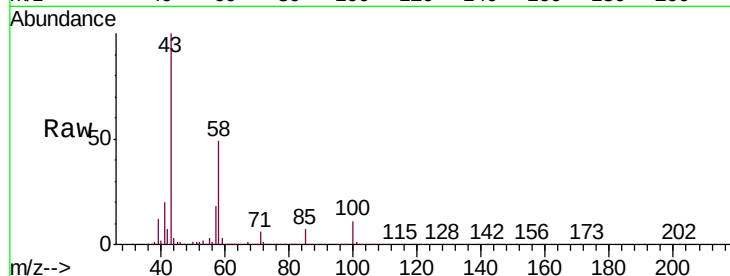
Ion Ratio Lower Upper

43 100

58 48.5 38.9 58.3

57 17.8 13.8 20.6

100 10.5 8.6 13.0

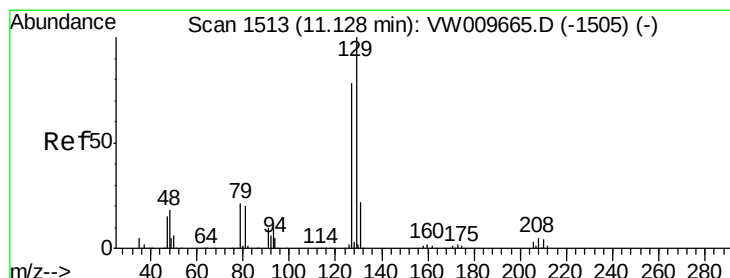
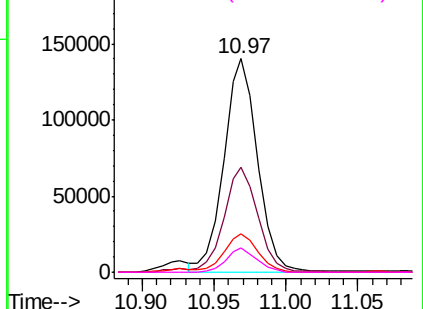


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 24.632 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW009684.D

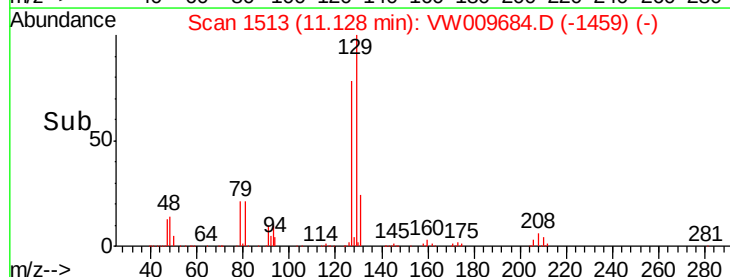
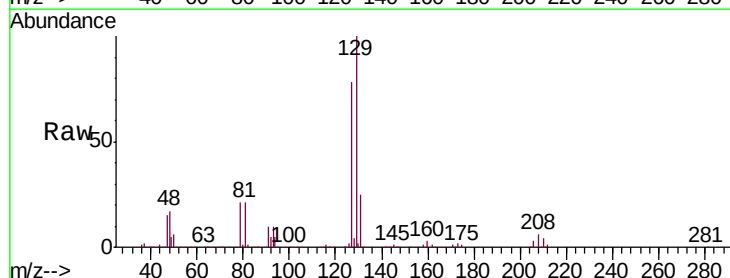
Acq: 04 Apr 2019 04:33

Tgt Ion: 129 Resp: 179507

Ion Ratio Lower Upper

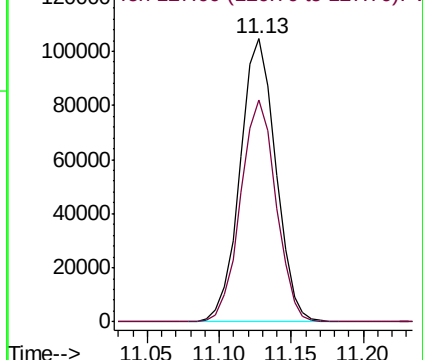
129 100

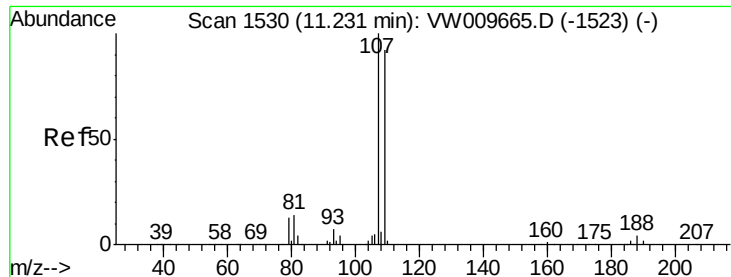
127 78.4 53.0 98.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

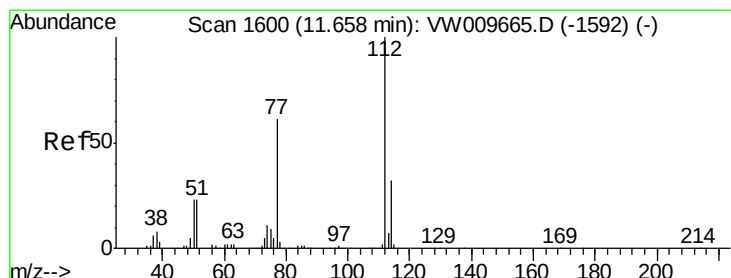
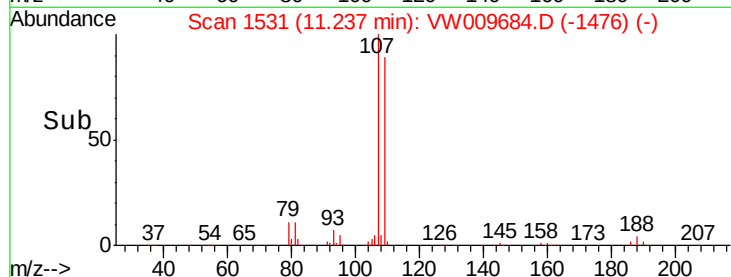
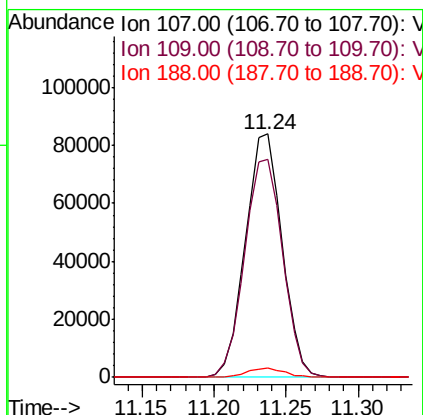
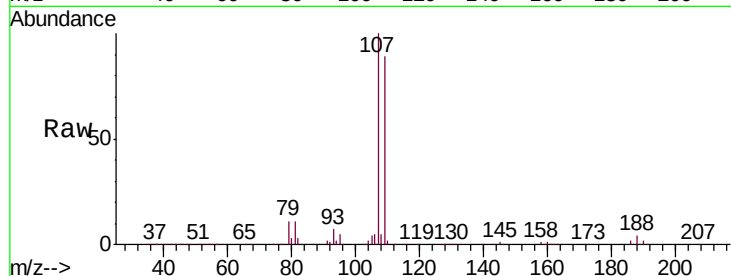




#51
 1,2-Dibromoethane
 Concen: 24.914 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

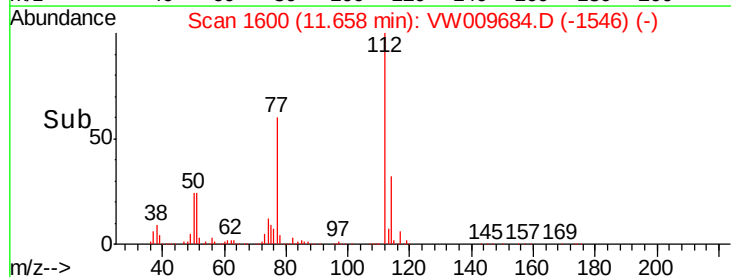
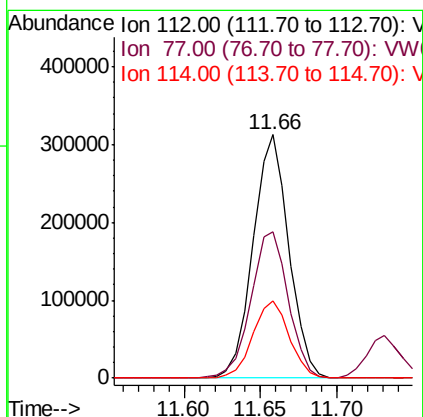
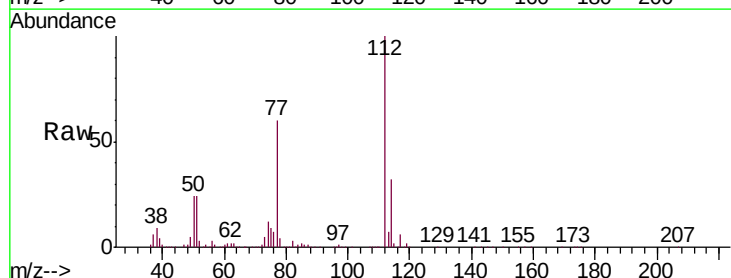
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02511

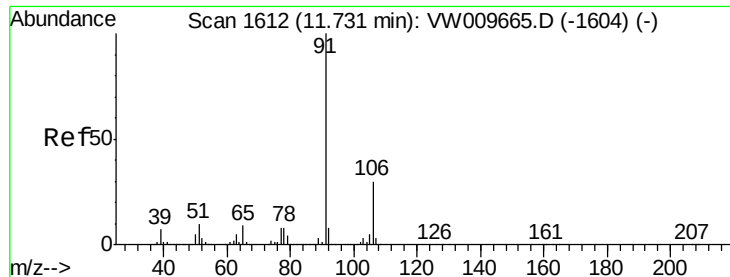
Tgt Ion:107 Resp: 148123
 Ion Ratio Lower Upper
 107 100
 109 89.3 65.4 121.4
 188 4.1 3.2 4.8



#52
 Chlorobenzene
 Concen: 24.147 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Tgt Ion:112 Resp: 508332
 Ion Ratio Lower Upper
 112 100
 77 60.1 48.2 72.2
 114 31.7 23.0 42.6

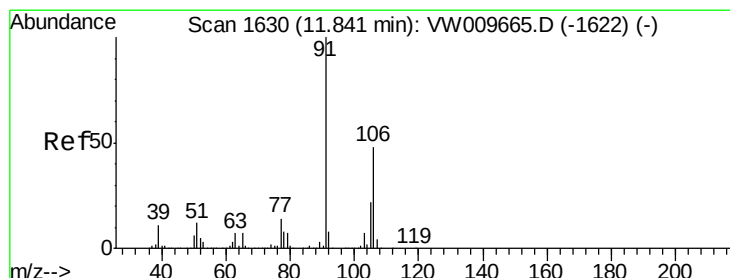
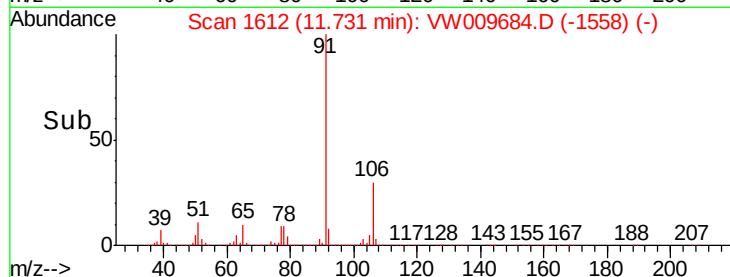
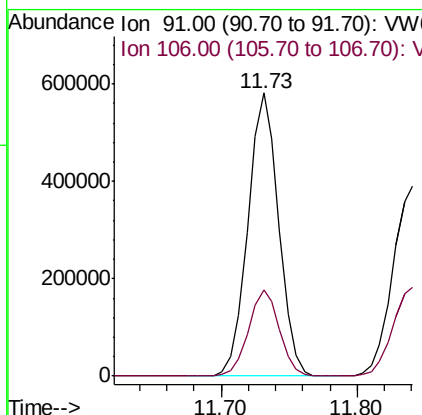
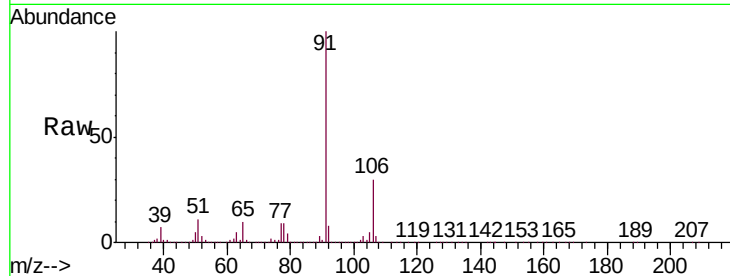




#53
Ethylbenzene
Concen: 24.637 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

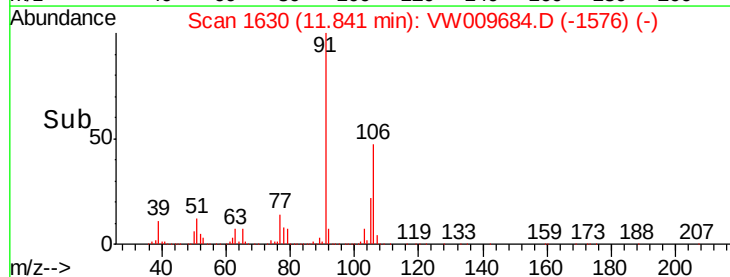
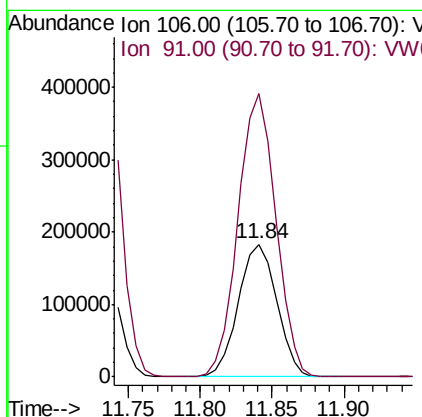
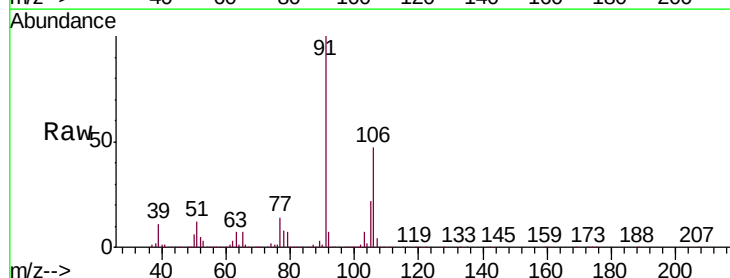
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

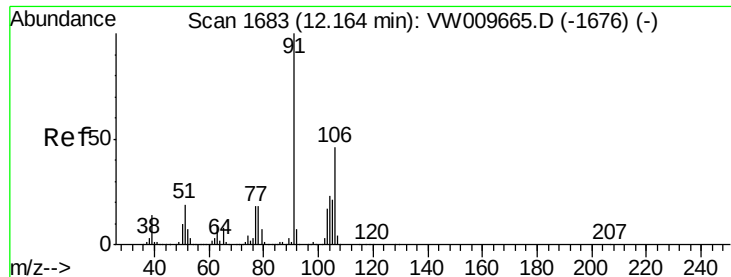
Tgt Ion: 91 Resp: 917854
Ion Ratio Lower Upper
91 100
106 30.4 21.5 39.9



#54
m,p-Xylene
Concen: 24.702 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW009684.D
Acq: 04 Apr 2019 04:33

Tgt Ion: 106 Resp: 340376
Ion Ratio Lower Upper
106 100
91 213.7 145.3 269.9





#55

o-xylene

Concen: 25.518 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

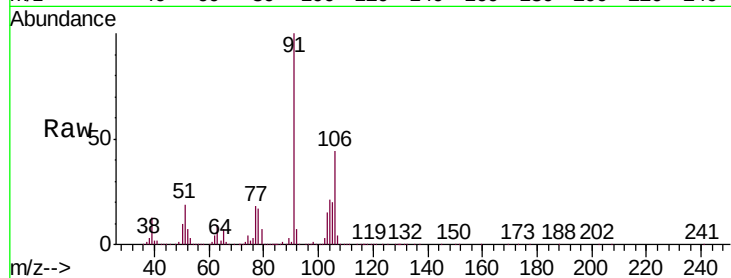
VSTD02511

Tgt Ion:106 Resp: 334876

Ion Ratio Lower Upper

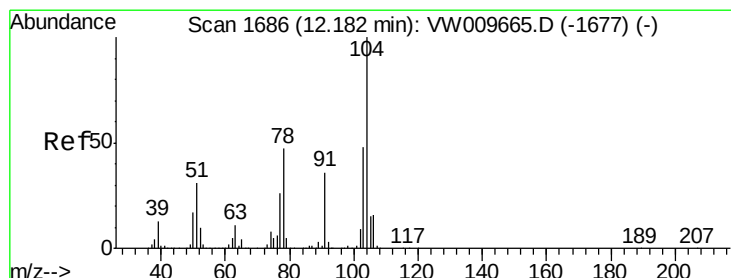
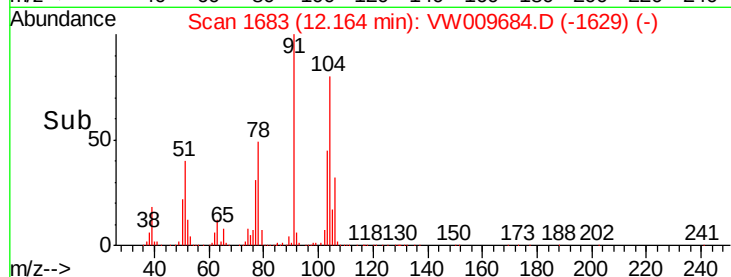
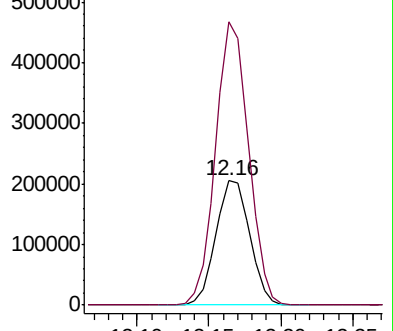
106 100

91 228.1 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.619 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW009684.D

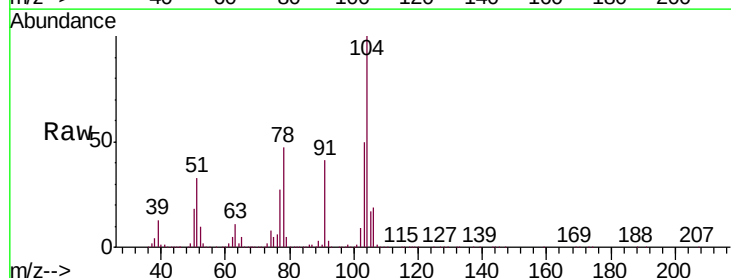
Acq: 04 Apr 2019 04:33

Tgt Ion:104 Resp: 583365

Ion Ratio Lower Upper

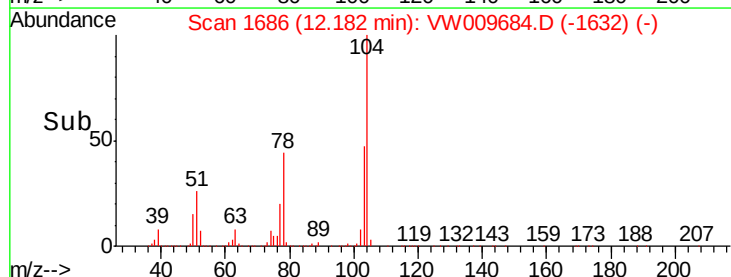
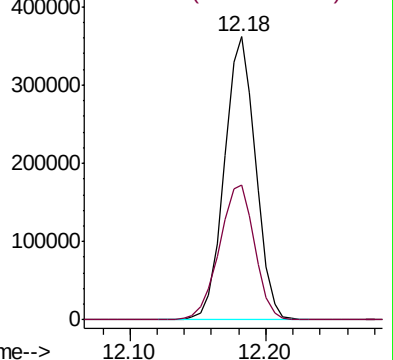
104 100

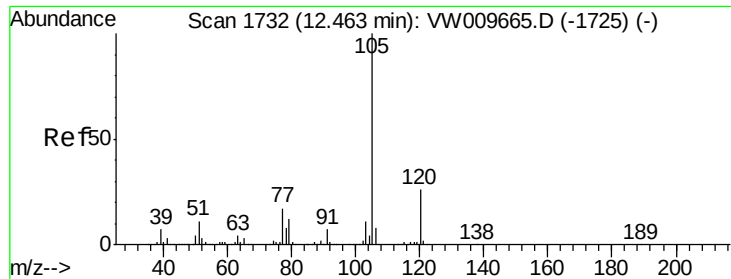
78 47.5 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 25.514 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

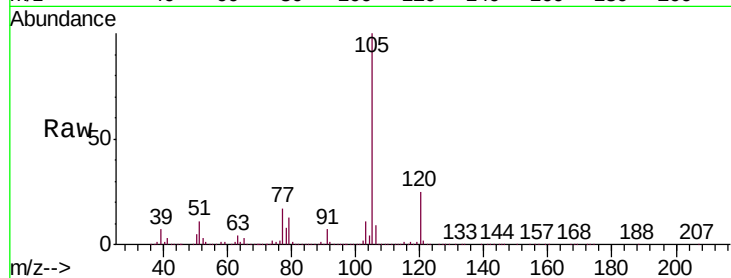
Tgt Ion: 105 Resp: 916838

Ion Ratio Lower Upper

105 100

120 25.8 21.0 31.4

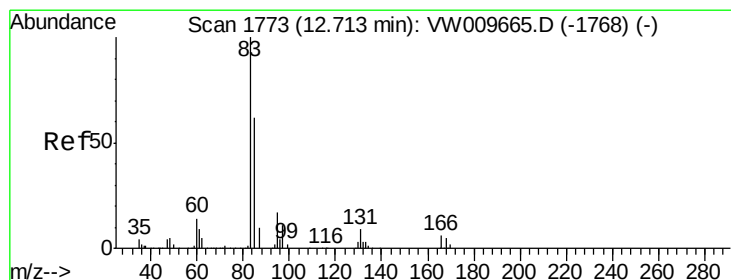
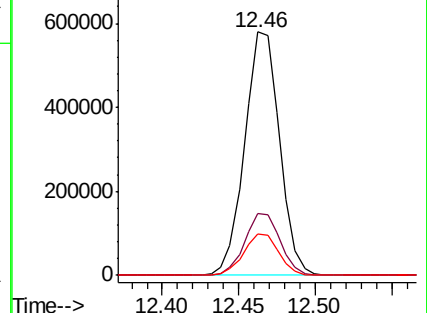
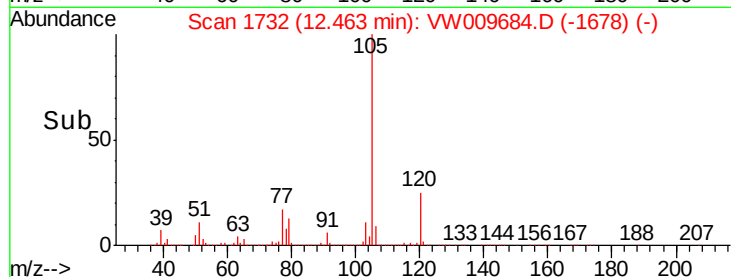
77 16.9 13.4 20.2



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: 24.092 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

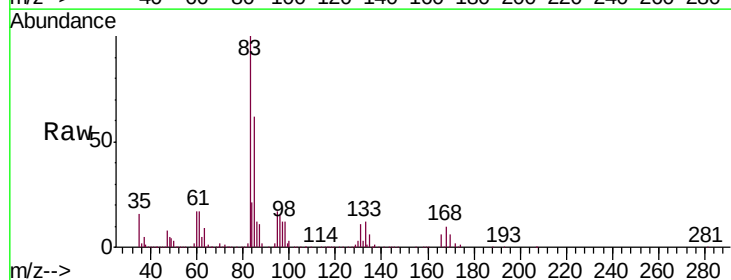
Tgt Ion: 83 Resp: 192167

Ion Ratio Lower Upper

83 100

85 62.3 44.9 83.3

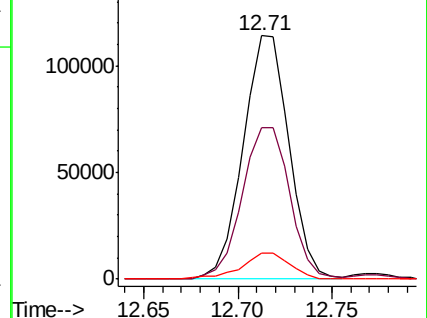
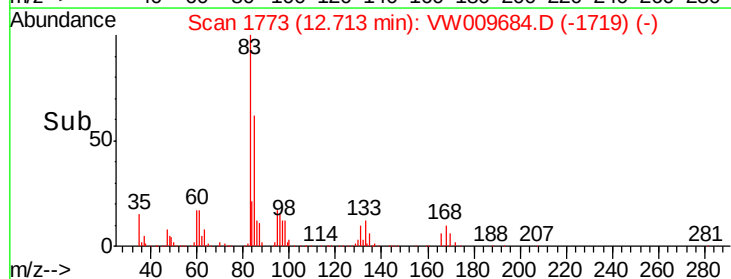
131 10.6 7.2 10.8

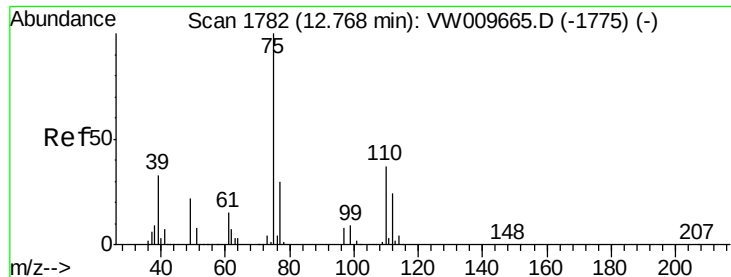


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.256 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

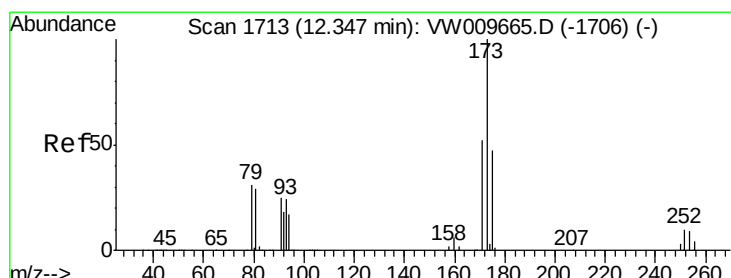
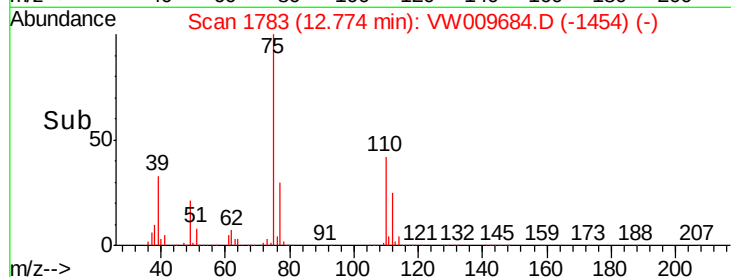
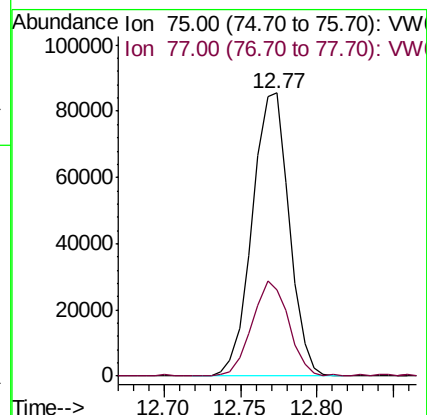
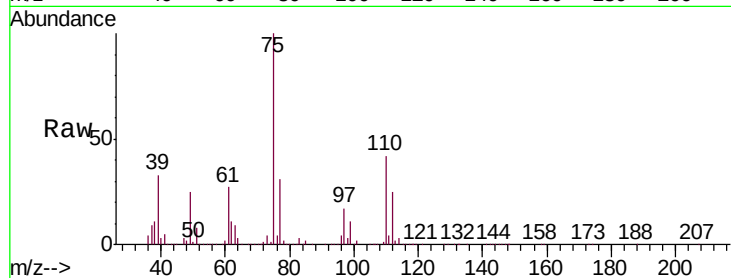
VSTD02511

Tgt Ion: 75 Resp: 144022

Ion Ratio Lower Upper

75 100

77 32.5 26.2 39.2



#62

Bromoform

Concen: 23.324 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

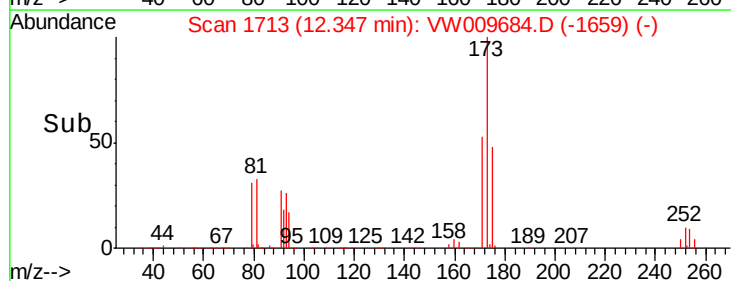
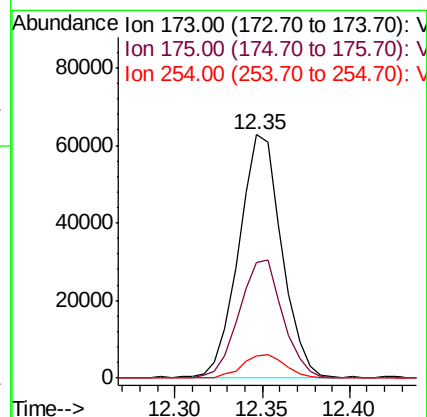
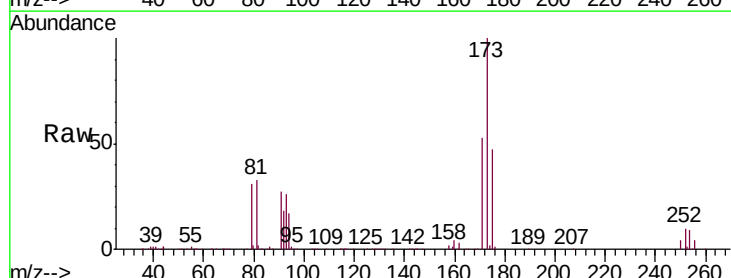
Tgt Ion: 173 Resp: 106891

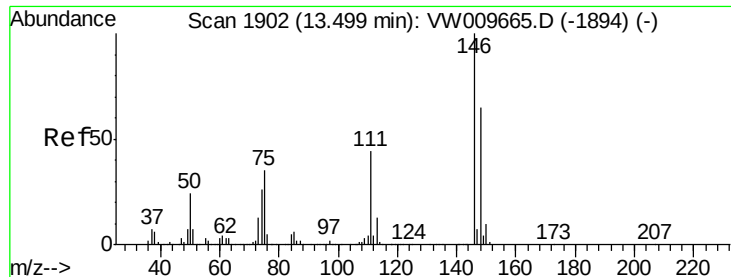
Ion Ratio Lower Upper

173 100

175 49.5 39.4 59.2

254 9.8 8.5 12.7

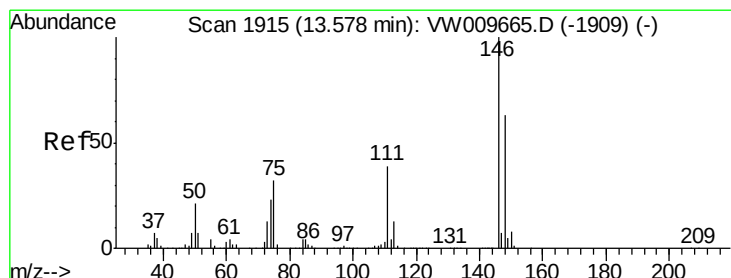
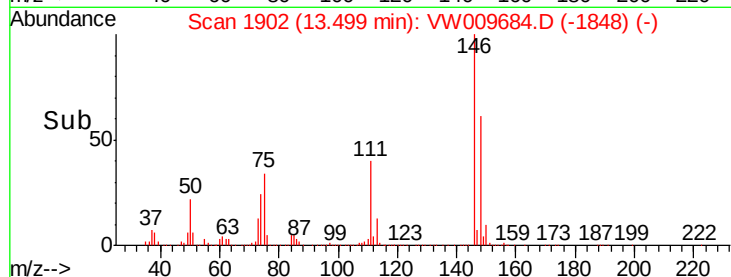
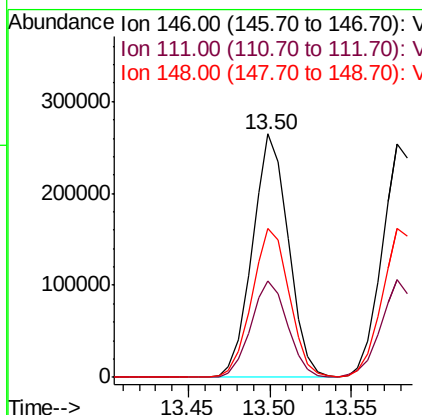
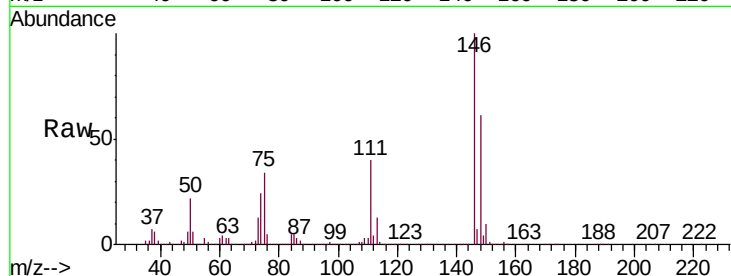




#63
 1,3-Dichlorobenzene
 Concen: 25.229 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

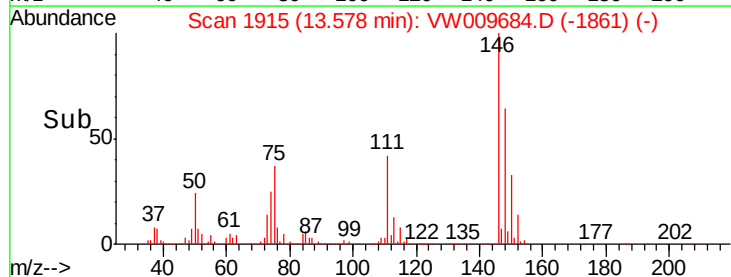
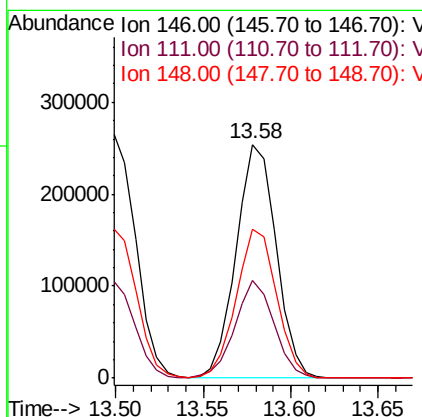
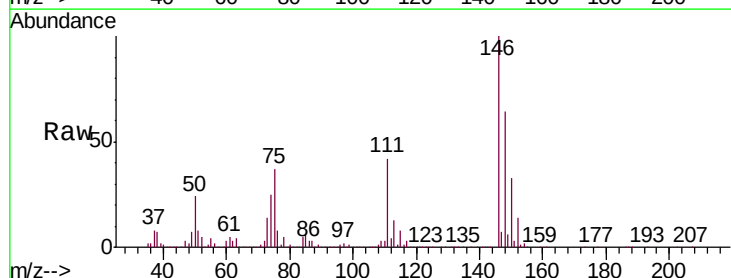
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

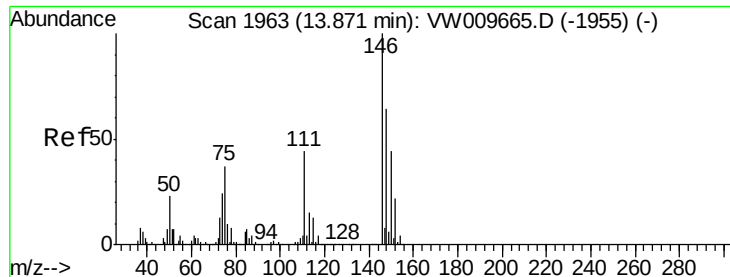
Tgt Ion:146 Resp: 406776
 Ion Ratio Lower Upper
 146 100
 111 39.8 28.1 52.3
 148 61.2 44.3 82.3



#64
 1,4-Dichlorobenzene
 Concen: 23.581 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Tgt Ion:146 Resp: 405435
 Ion Ratio Lower Upper
 146 100
 111 41.6 27.4 50.8
 148 63.5 43.8 81.3

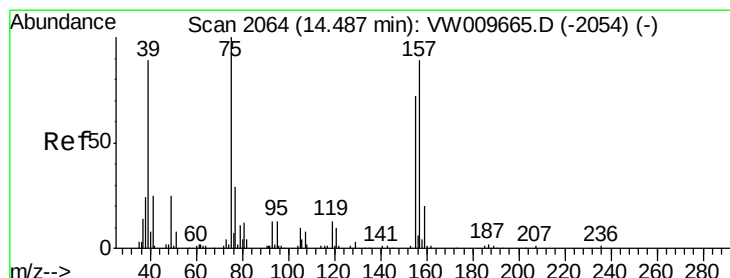
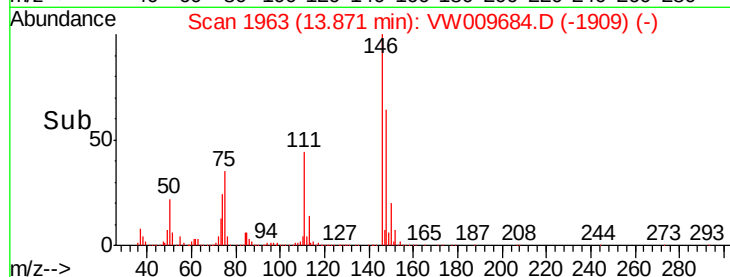
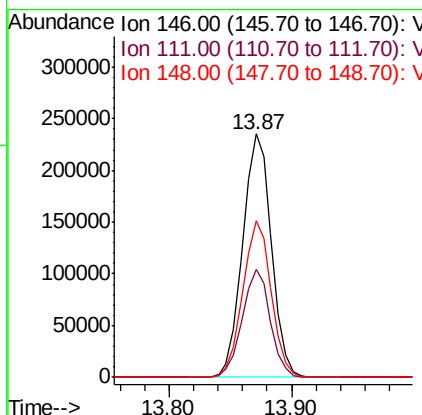
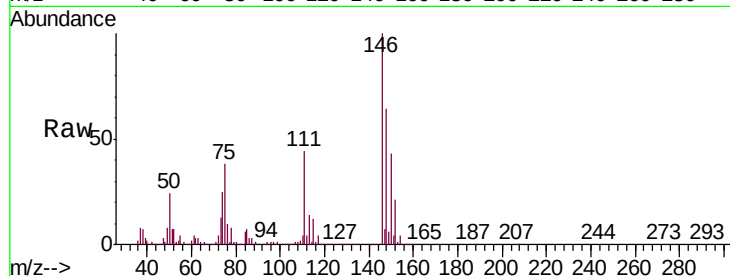




#65
 1,2-Dichlorobenzene
 Concen: 24.779 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

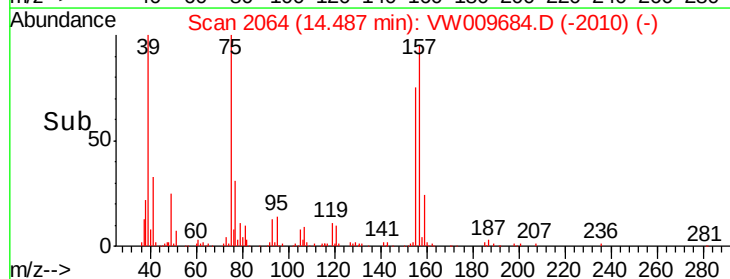
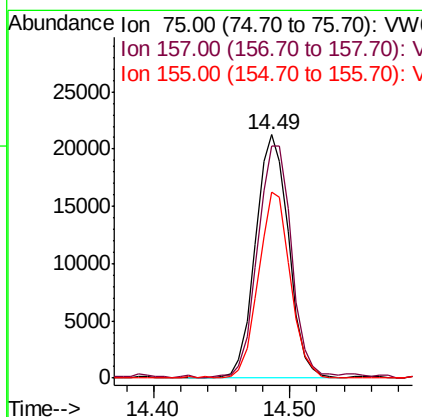
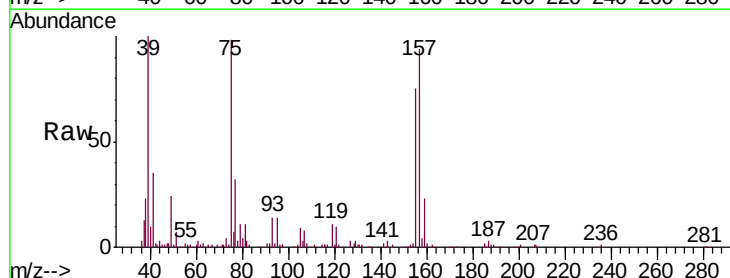
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

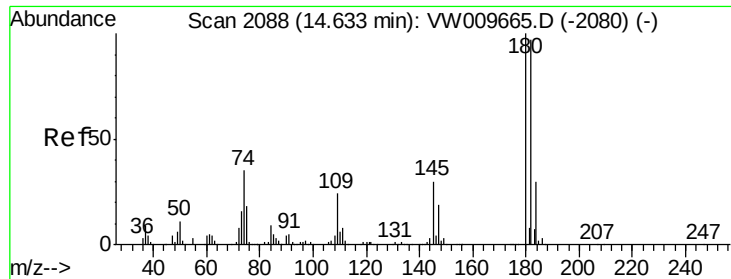
Tgt Ion:146 Resp: 382225
 Ion Ratio Lower Upper
 146 100
 111 44.1 32.4 48.6
 148 64.2 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 24.198 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Tgt Ion: 75 Resp: 36334
 Ion Ratio Lower Upper
 75 100
 157 95.4 77.2 115.8
 155 76.4 61.9 92.9

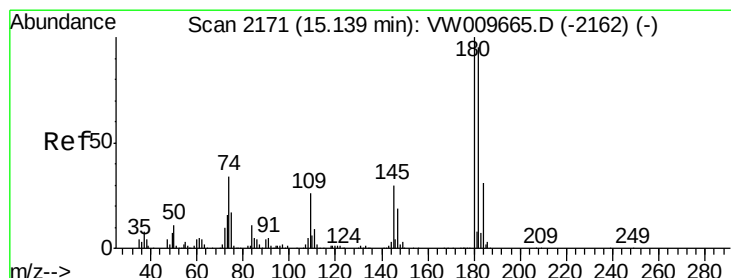
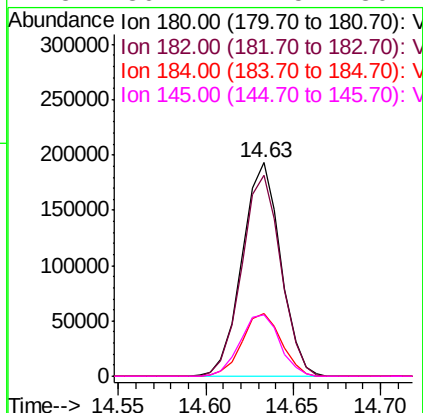
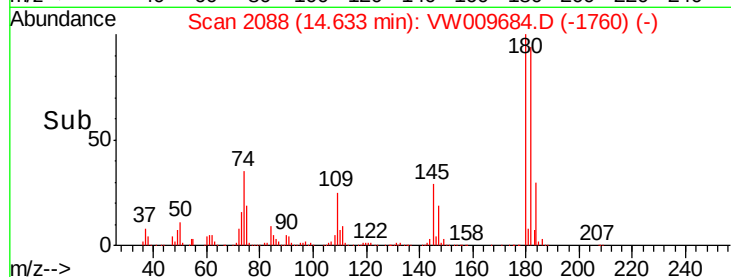
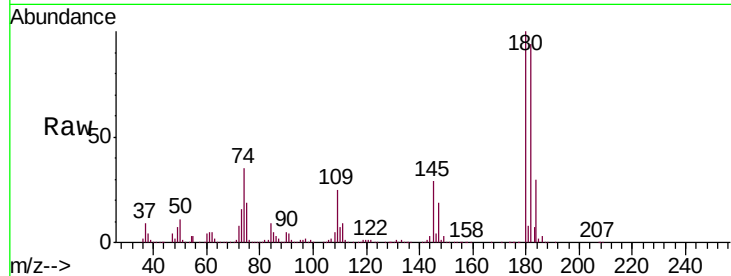




#67
 1,3,5-Trichlorobenzene
 Concen: 24.805 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

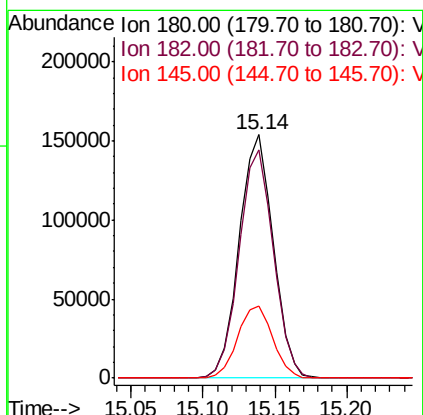
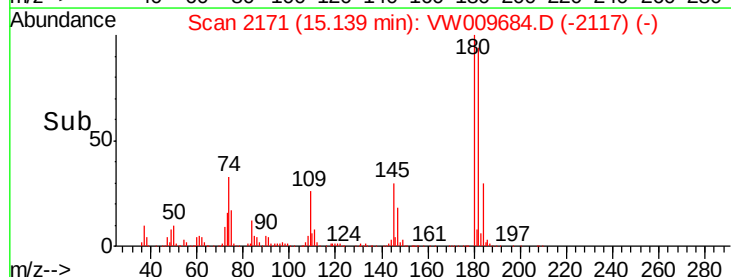
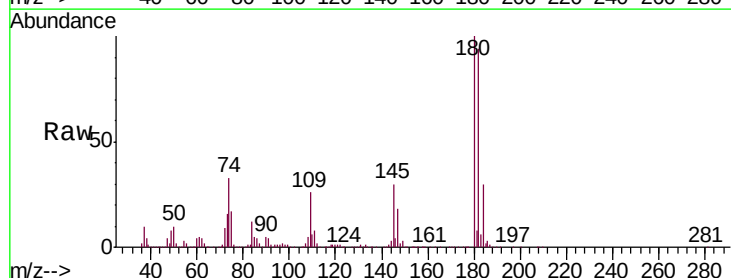
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

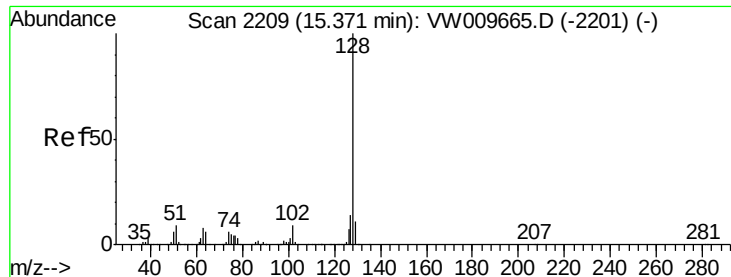
Tgt Ion:180 Resp: 296742
 Ion Ratio Lower Upper
 180 100
 182 95.0 75.8 113.6
 184 29.9 24.7 37.1
 145 30.1 24.5 36.7



#68
 1,2,4-trichlorobenzene
 Concen: 26.231 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW009684.D
 Acq: 04 Apr 2019 04:33

Tgt Ion:180 Resp: 252009
 Ion Ratio Lower Upper
 180 100
 182 94.5 75.8 113.8
 145 30.6 24.3 36.5





#69

Naphthalene

Concen: 28.602 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

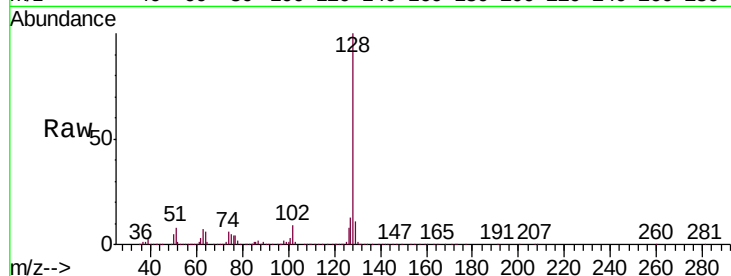
Tgt Ion:128 Resp: 552297

Ion Ratio Lower Upper

128 100

129 11.0 8.5 12.7

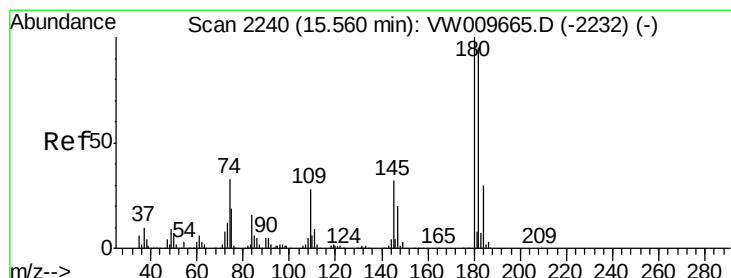
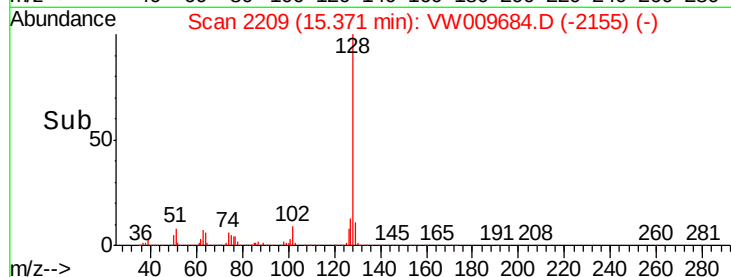
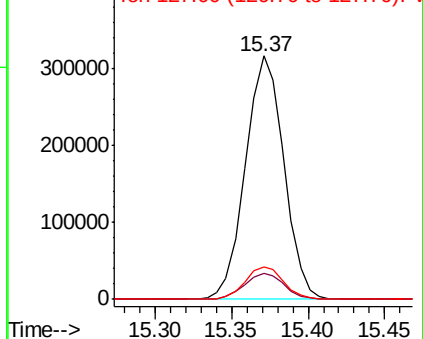
127 13.5 10.8 16.2



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: 26.044 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW009684.D

Acq: 04 Apr 2019 04:33

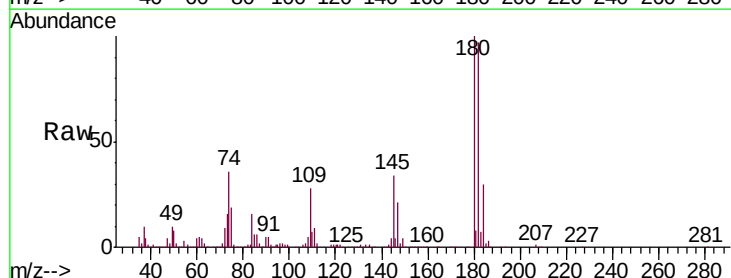
Tgt Ion:180 Resp: 234072

Ion Ratio Lower Upper

180 100

182 94.5 75.0 112.4

145 32.7 25.8 38.6



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

