

Data File : VW009231.D
Acq On : 18 Mar 2019 16:03
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.03G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

Quant Time: Mar 19 01:35:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 19 01:10:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	449635	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	426638	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	218389	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	137275	25.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.20%
7) Chloroethane-d5	2.89	69	133068	21.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.68%
10) 1,1-Dichloroethene-d2	4.02	63	295278	25.43	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	101.72%
20) 2-Butanone-d5	7.07	46	107747	48.49	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.98%
24) Chloroform-d	7.65	84	295775	24.10	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	8.31	65	176227	23.84	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.36%
29) Benzene-d6	8.27	84	557757	23.71	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.84%
33) 1,2-Dichloropropane-d6	9.27	67	166684	23.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.36%
37) Toluene-d8	10.32	98	521896	23.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.96%
38) trans-1,3-Dichloropropene-	10.58	79	84399	23.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.12%
39) 2-Hexanone-d5	10.93	63	86059	50.28	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.56%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	172250	24.75	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.00%
61) 1,2-Dichlorobenzene-d4	13.86	152	202512	24.18	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	145252	24.522 ug/L	88
3) Chloromethane	2.22	50	145965	23.227 ug/L	96
5) Vinyl chloride	2.37	62	200429	30.986 ug/L	96
6) Bromomethane	2.78	94	133562	24.646 ug/L	100
8) Chloroethane	2.93	64	135478	25.316 ug/L	94
9) Trichlorofluoromethane	3.26	101	124091	24.287 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	153860	26.075 ug/L	96
12) 1,1-Dichloroethene	4.04	96	158150	28.563 ug/L	85
13) Acetone	4.12	43	109852	60.284 ug/L	99
14) Carbon disulfide	4.38	76	458914	30.797 ug/L	99
15) Methyl Acetate	4.67	43	94591	26.423 ug/L	94
16) Methylene chloride	4.92	84	154144	23.509 ug/L	95
17) Methyl tert-butyl Ether	5.42	73	195553	24.961 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	155132	26.649 ug/L	100
19) 1,1-Dichloroethane	6.21	63	282876	26.650 ug/L	98
21) 2-Butanone	7.17	43	139394	55.401 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	170877	27.097 ug/L	94

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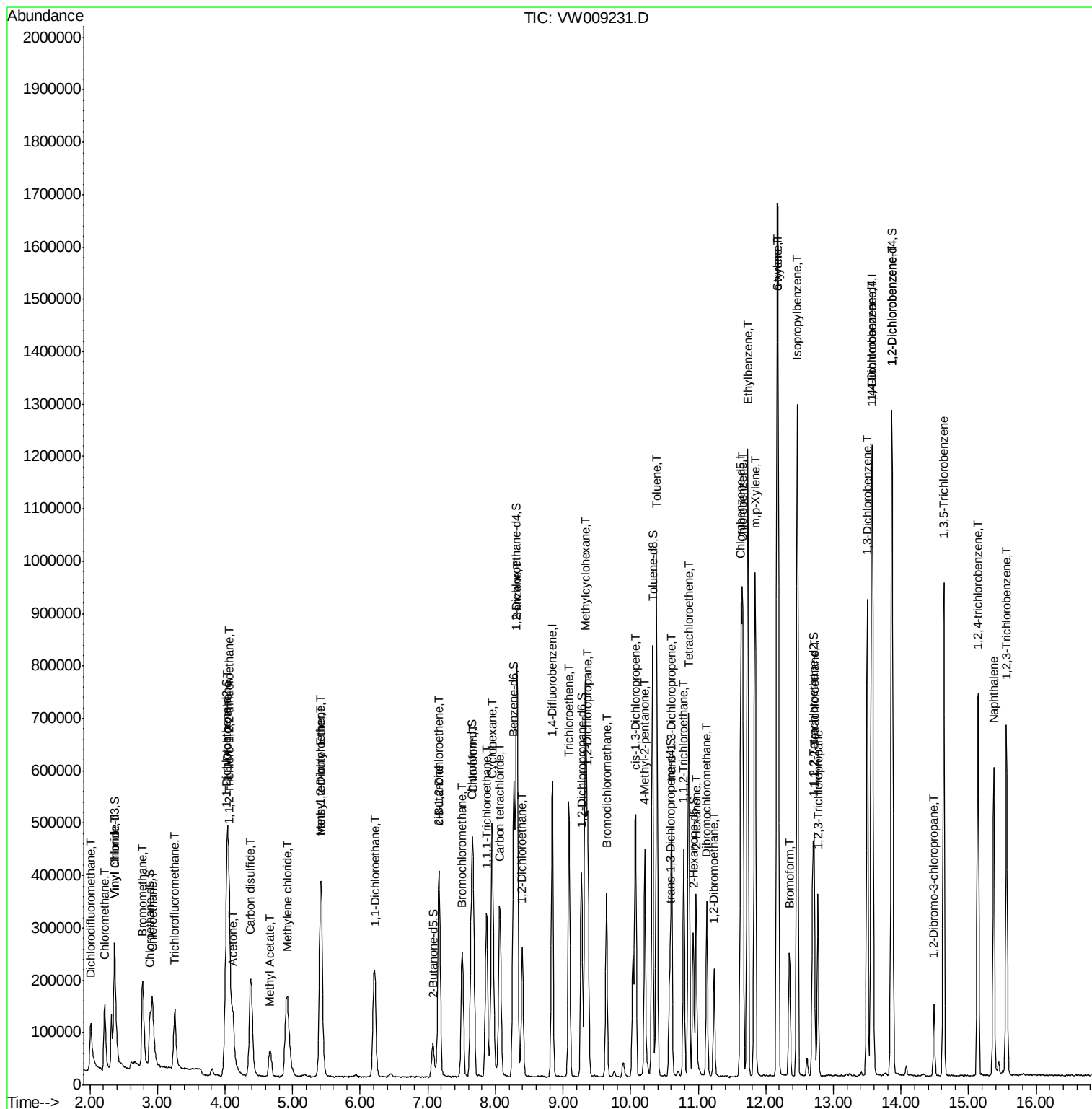
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	80598	26.647	ug/L	97
25) Chloroform	7.67	83	300795	27.060	ug/L	99
27) 1,2-Dichloroethane	8.40	62	221045	26.672	ug/L	99
30) Cyclohexane	7.95	56	263954	27.242	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	234151	27.479	ug/L	99
32) Carbon tetrachloride	8.06	117	245972	28.611	ug/L	98
34) Benzene	8.32	78	641762	27.482	ug/L	100
35) Trichloroethene	9.09	95	167015	26.841	ug/L	99
36) Methylcyclohexane	9.34	83	295382	27.439	ug/L	99
40) 1,2-Dichloropropane	9.37	63	159716	26.654	ug/L	100
41) Bromodichloromethane	9.64	83	223160	26.878	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	260920	26.734	ug/L	96
43) 4-Methyl-2-pentanone	10.21	43	289157	53.253	ug/L	100
44) Toluene	10.38	91	700431	27.434	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	229731	27.059	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	129640	27.118	ug/L	97
47) Tetrachloroethene	10.86	164	142762	27.154	ug/L	96
49) 2-Hexanone	10.97	43	204113	53.372	ug/L	97
50) Dibromochloromethane	11.13	129	161642	27.390	ug/L	94
51) 1,2-Dibromoethane	11.23	107	130418	26.911	ug/L	96
52) Chlorobenzene	11.66	112	443415	27.078	ug/L	99
53) Ethylbenzene	11.73	91	786622	27.404	ug/L	99
54) m,p-Xylene	11.84	106	299069	27.424	ug/L	100
55) o-xylene	12.16	106	282319	26.536	ug/L	99
56) Styrene	12.18	104	495723	27.309	ug/L	98
57) Isopropylbenzene	12.46	105	786230	27.587	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	177048	27.452	ug/L #	97
59) 1,2,3-Trichloropropane	12.77	75	129288	27.012	ug/L	98
62) Bromoform	12.35	173	101553	27.521	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	346819	26.646	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	362750	26.957	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	336831	27.136	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	32914	27.056	ug/L	95
67) 1,3,5-Trichlorobenzene	14.63	180	270756	26.670	ug/L	100
68) 1,2,4-trichlorobenzene	15.14	180	223508	26.210	ug/L	99
69) Naphthalene	15.37	128	481246	27.220	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	214706	26.882	ug/L	97

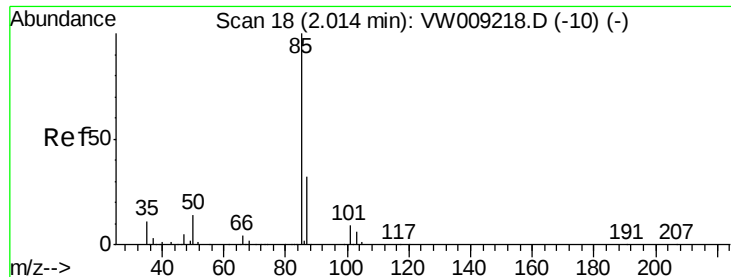
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.522 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

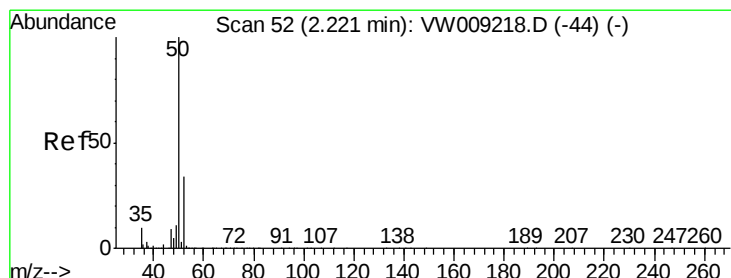
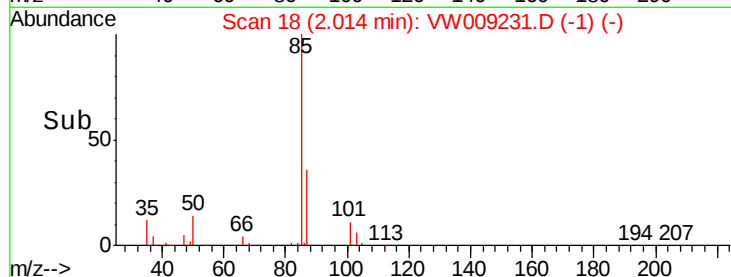
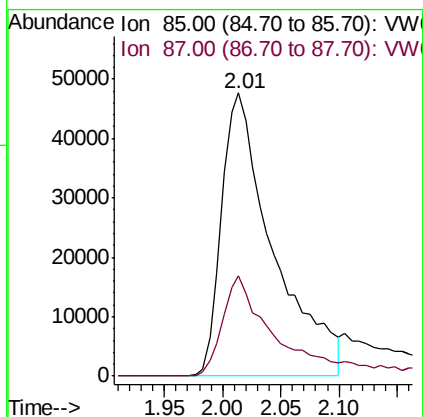
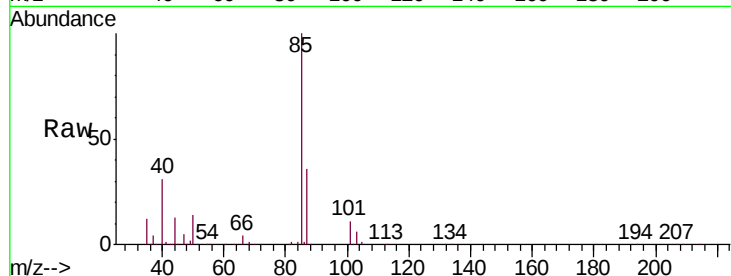
VSTD02513

Tgt Ion: 85 Resp: 145252

Ion Ratio Lower Upper

85 100

87 34.0 19.5 36.3



#3

Chloromethane

Concen: 23.227 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.00 min

Lab File: VW009231.D

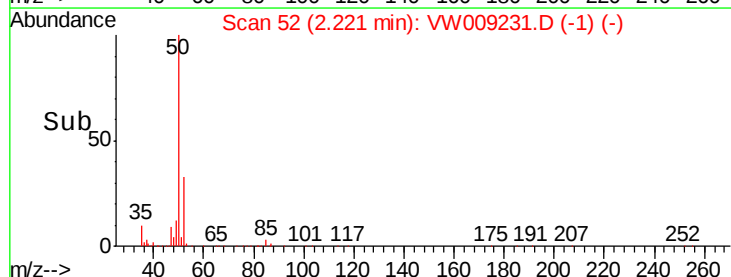
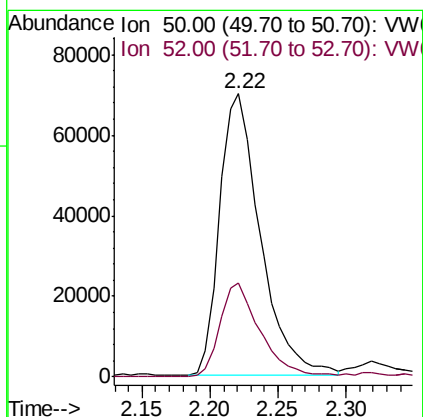
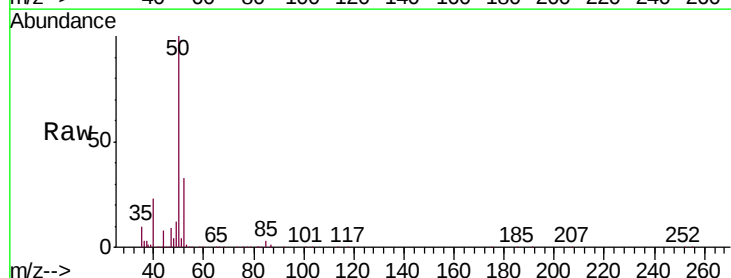
Acq: 18 Mar 2019 16:03

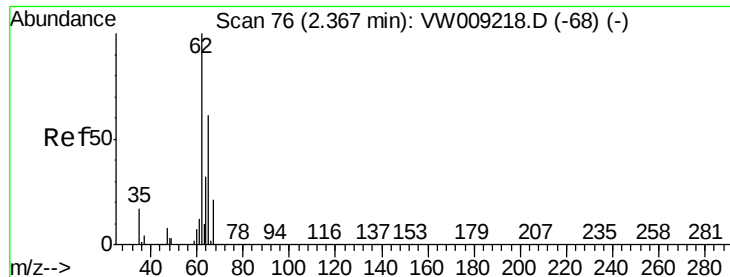
Tgt Ion: 50 Resp: 145965

Ion Ratio Lower Upper

50 100

52 33.3 21.6 40.2





#5

Vinyl chloride

Concen: 30.986 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

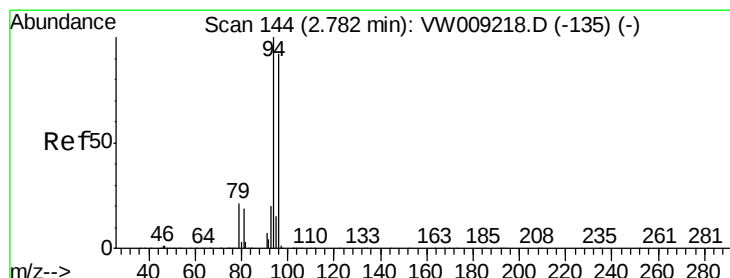
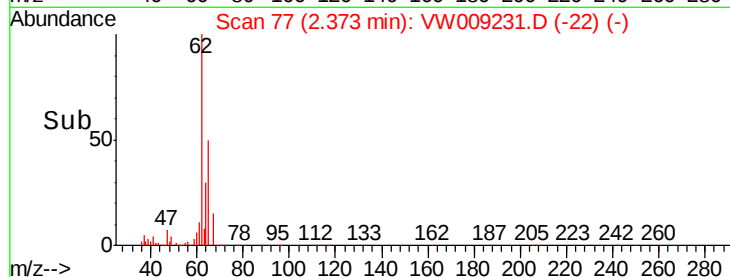
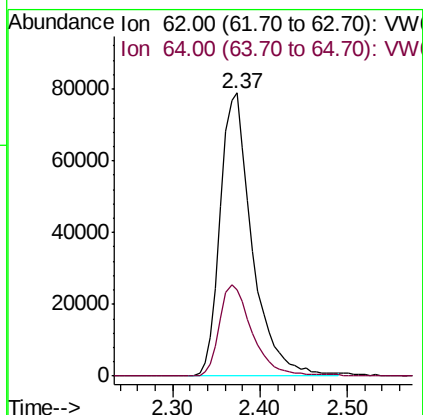
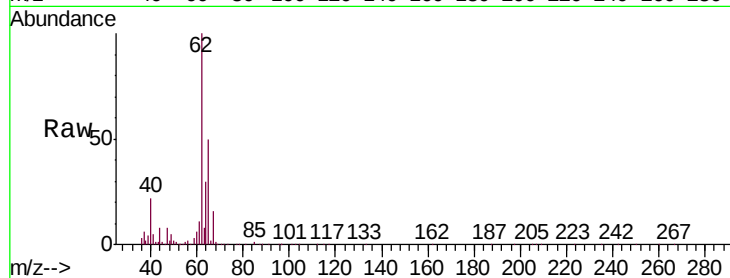
VSTD02513

Tgt Ion: 62 Resp: 200429

Ion Ratio Lower Upper

62 100

64 30.3 23.0 42.6



#6

Bromomethane

Concen: 24.646 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW009231.D

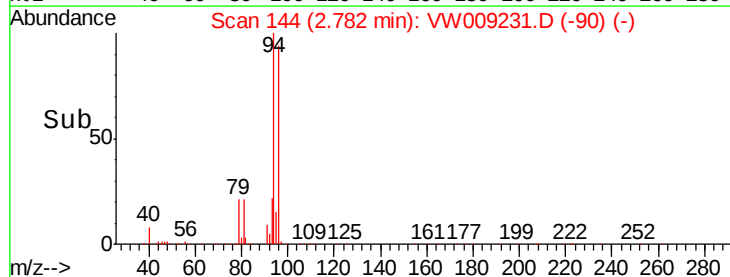
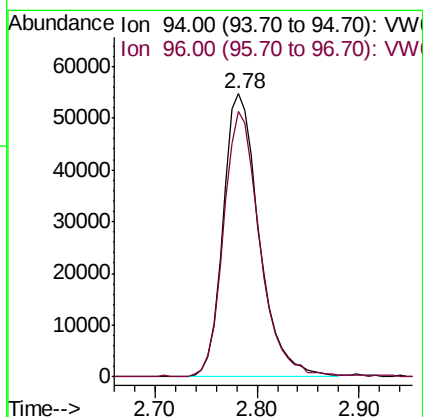
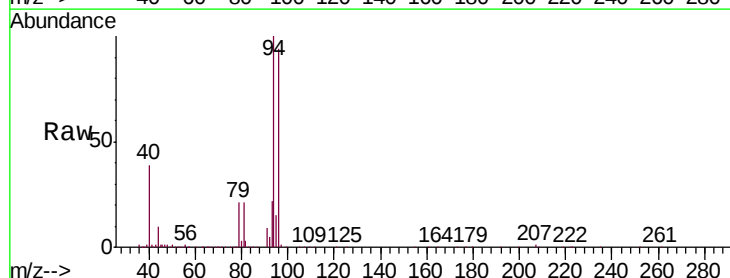
Acq: 18 Mar 2019 16:03

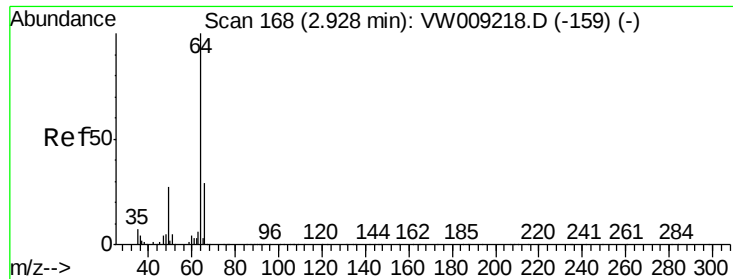
Tgt Ion: 94 Resp: 133562

Ion Ratio Lower Upper

94 100

96 93.7 9.4 178.4





#8

Chloroethane

Concen: 25.316 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

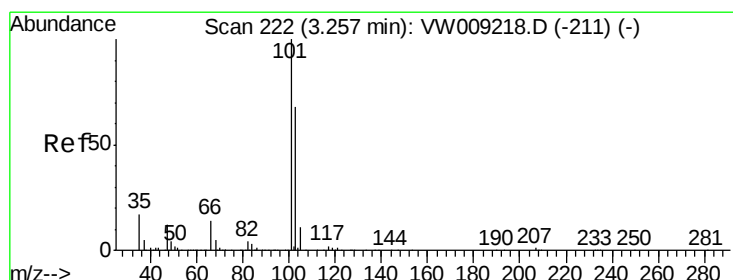
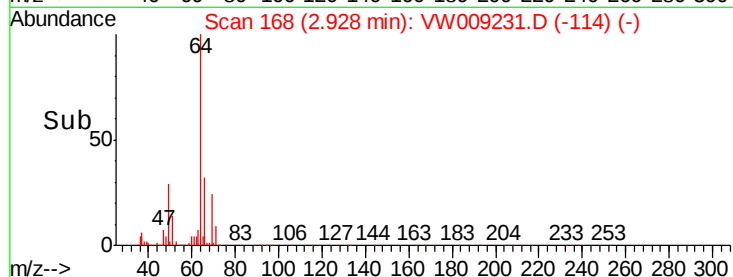
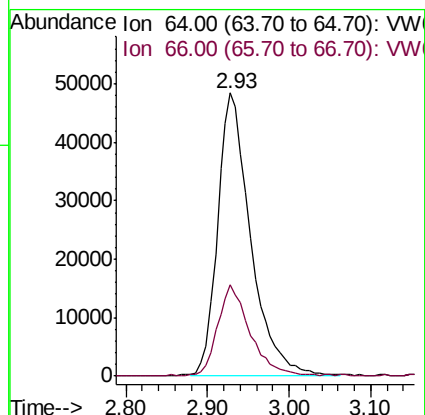
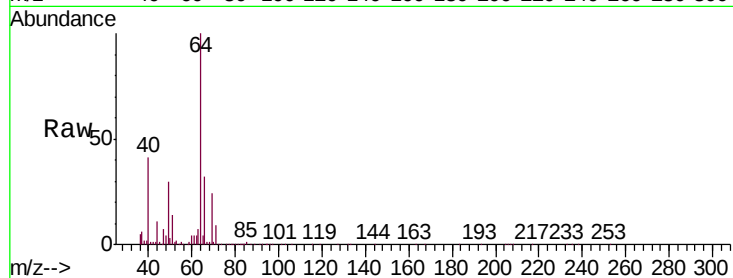
VSTD02513

Tgt Ion: 64 Resp: 135478

Ion Ratio Lower Upper

64 100

66 32.2 25.1 46.7



#9

Trichlorofluoromethane

Concen: 24.287 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW009231.D

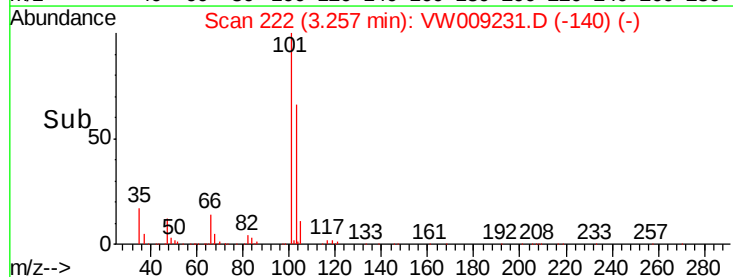
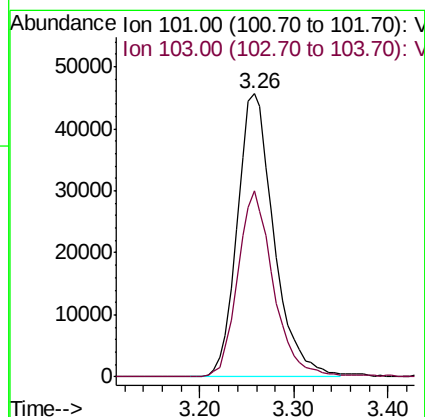
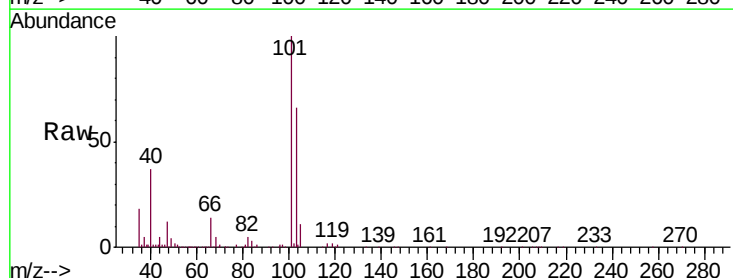
Acq: 18 Mar 2019 16:03

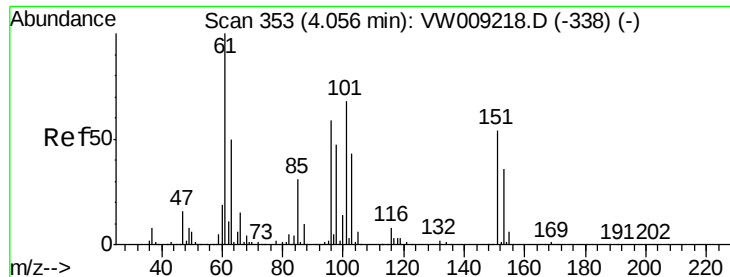
Tgt Ion: 101 Resp: 124091

Ion Ratio Lower Upper

101 100

103 63.7 45.0 83.6





#11

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

Concen: 26.075 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

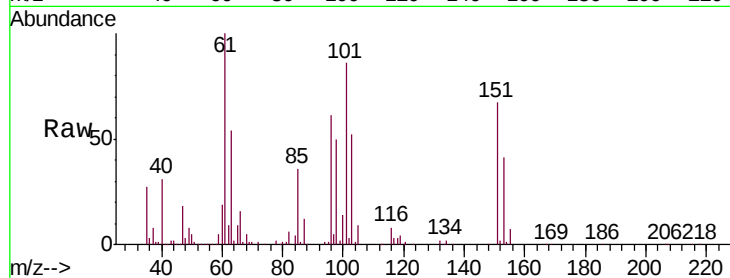
Tgt Ion: 101 Resp: 153860

Ion Ratio Lower Upper

101 100

85 45.2 32.6 48.8

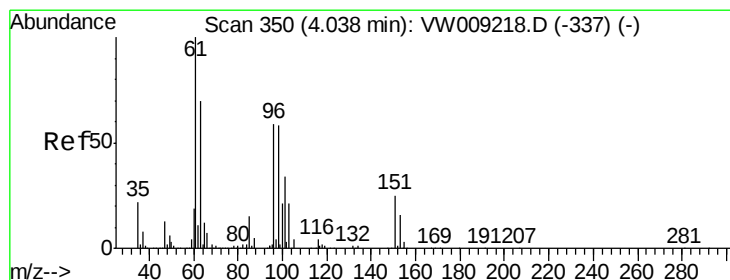
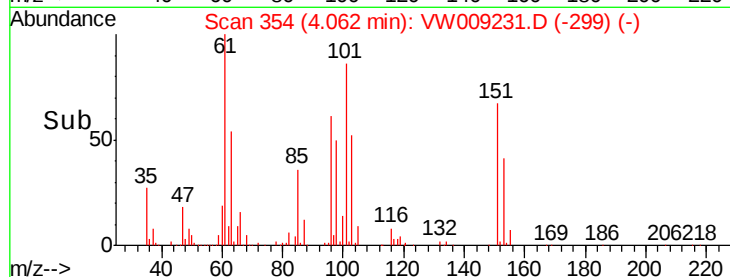
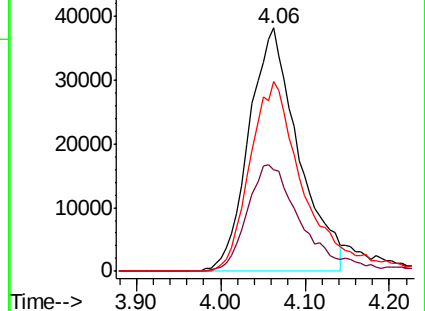
151 81.6 63.3 94.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 28.563 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

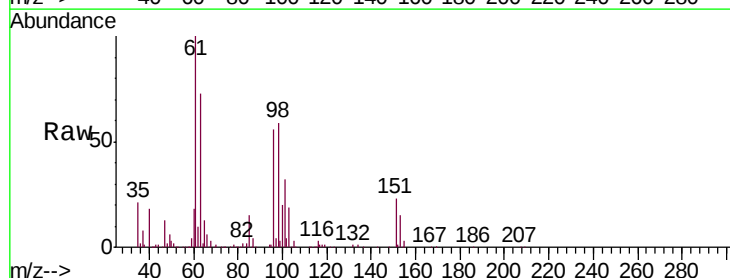
Tgt Ion: 96 Resp: 158150

Ion Ratio Lower Upper

96 100

61 178.2 129.4 240.2

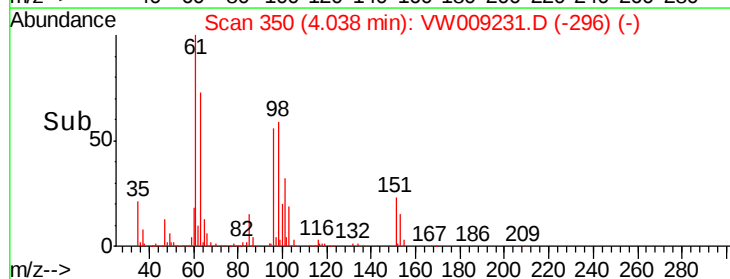
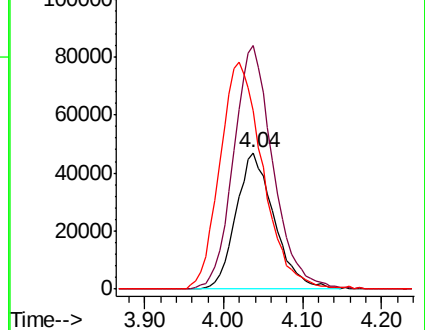
63 130.5 116.8 217.0

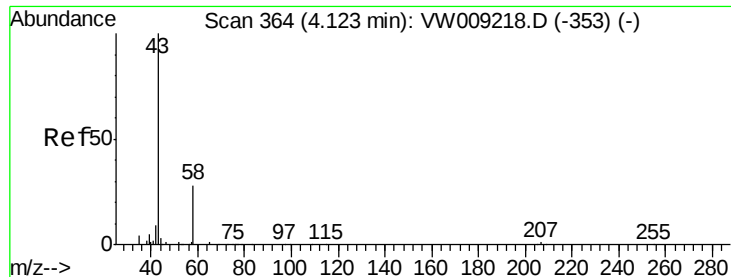


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 60.284 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

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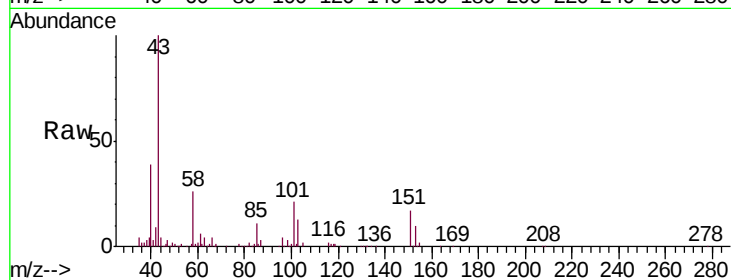
VSTD02513

Tgt Ion: 43 Resp: 109852

Ion Ratio Lower Upper

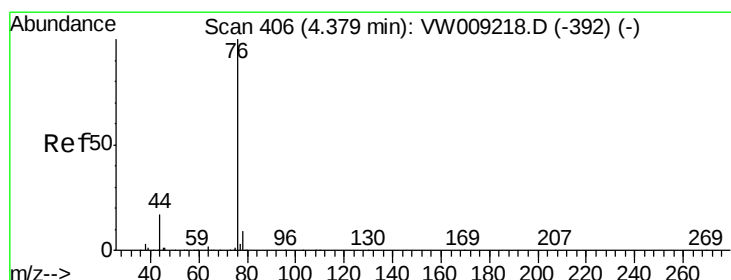
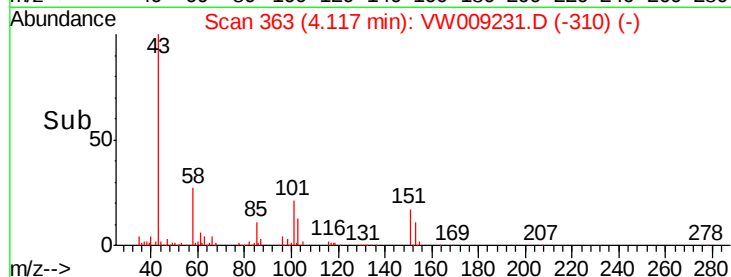
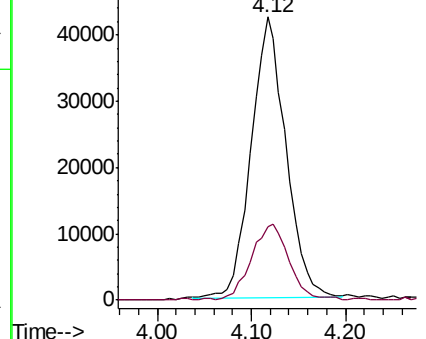
43 100

58 28.8 0.0 56.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 30.797 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW009231.D

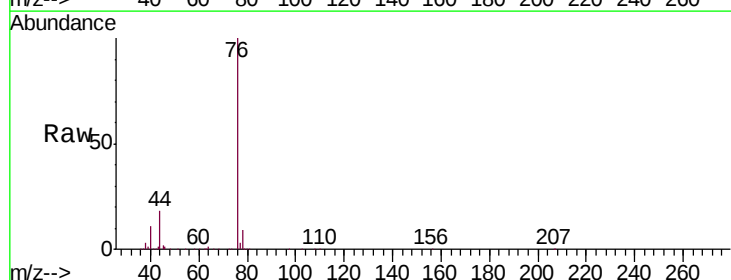
Acq: 18 Mar 2019 16:03

Tgt Ion: 76 Resp: 458914

Ion Ratio Lower Upper

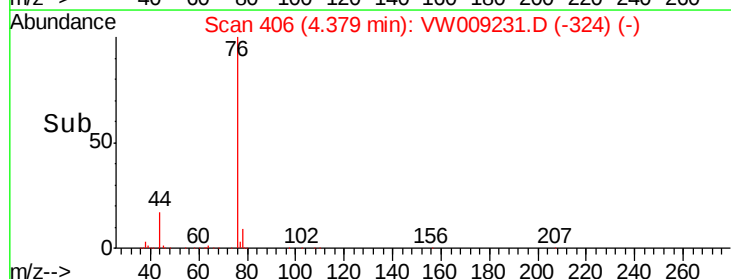
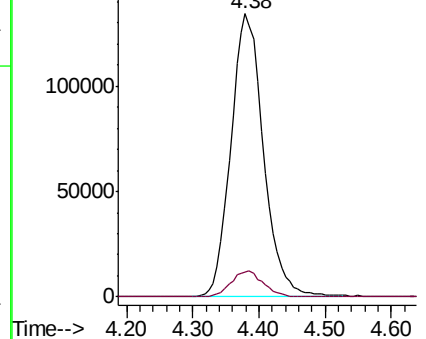
76 100

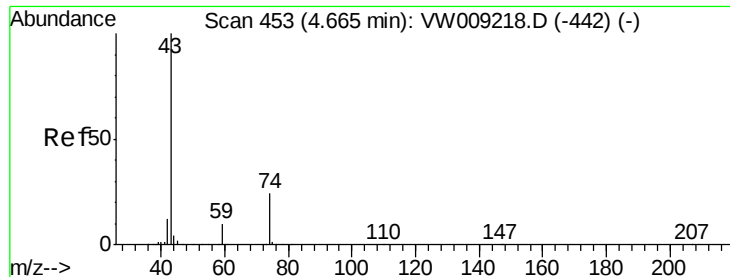
78 8.6 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

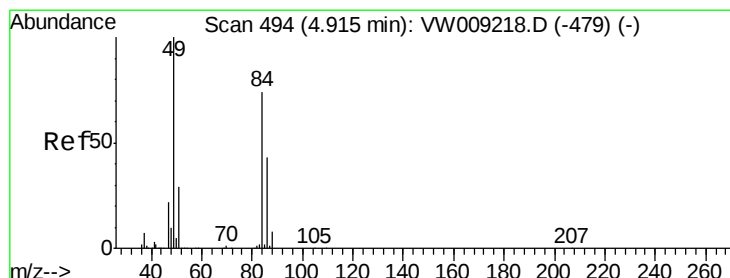
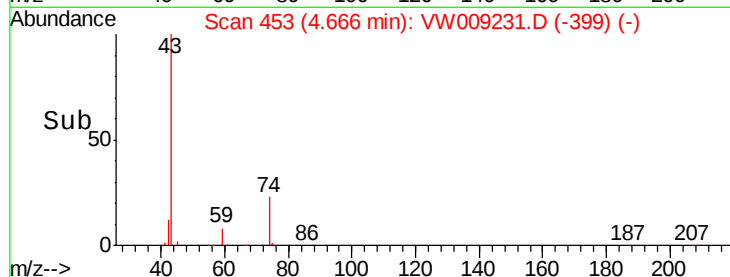
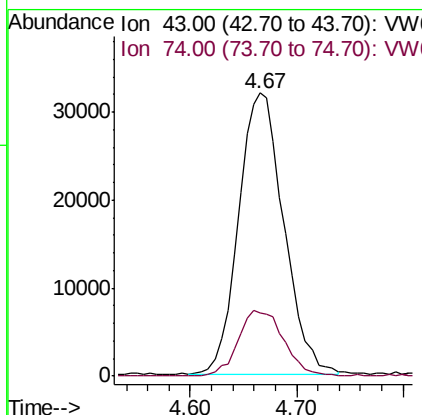
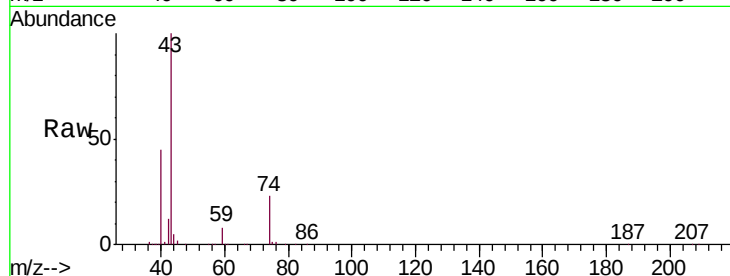




#15
Methyl Acetate
Concen: 26.423 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

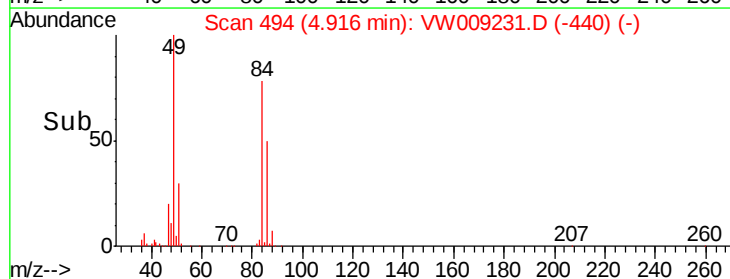
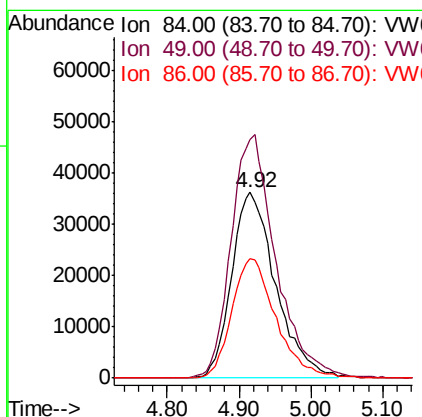
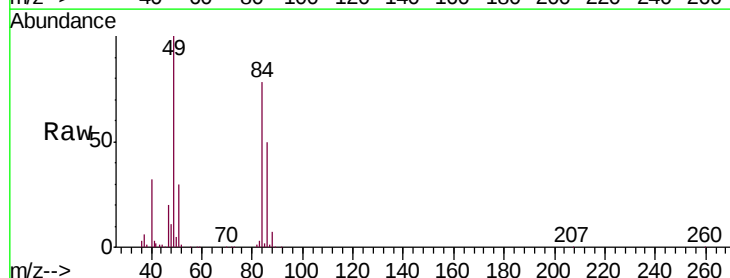
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

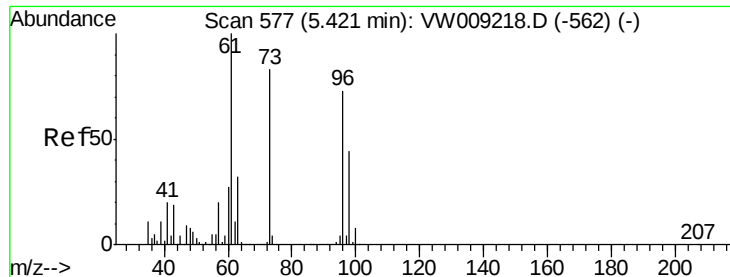
Tgt Ion: 43 Resp: 94591
Ion Ratio Lower Upper
43 100
74 23.9 16.7 25.1



#16
Methylene chloride
Concen: 23.509 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

Tgt Ion: 84 Resp: 154144
Ion Ratio Lower Upper
84 100
49 128.2 96.0 178.2
86 64.0 44.4 82.5

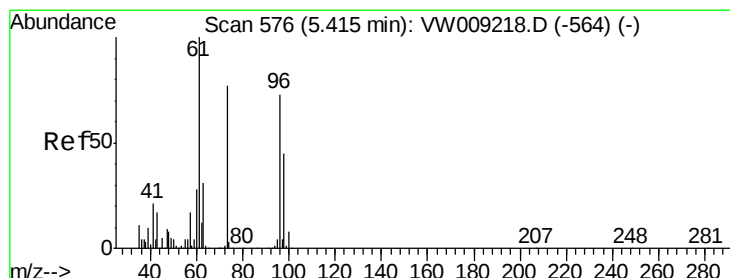
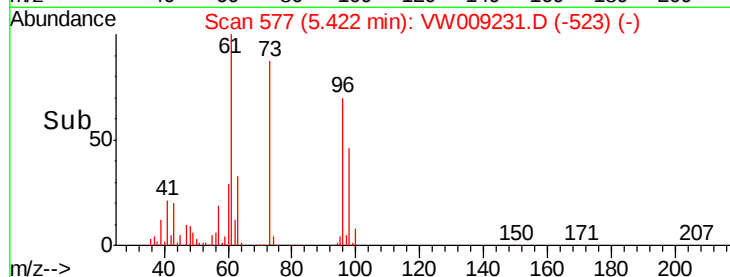
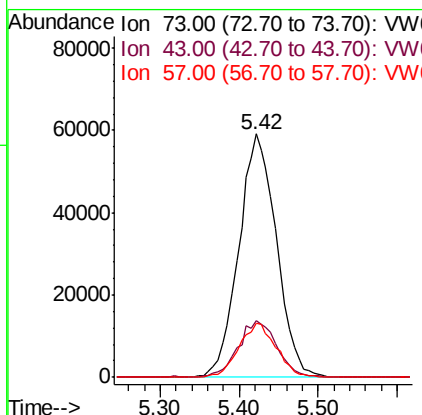
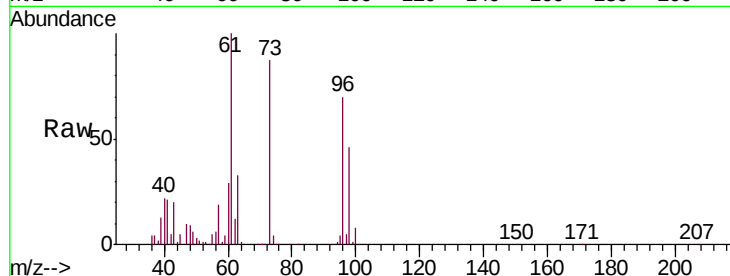




#17
Methyl tert-butyl Ether
Concen: 24.961 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

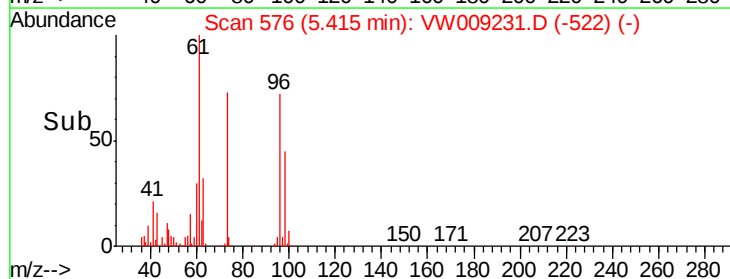
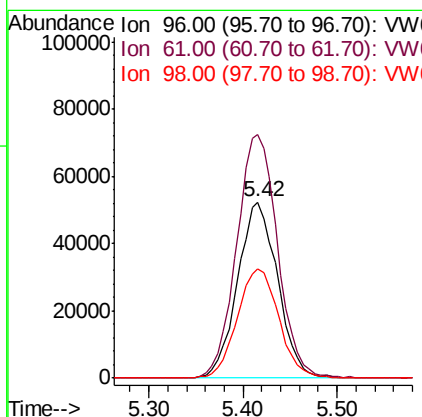
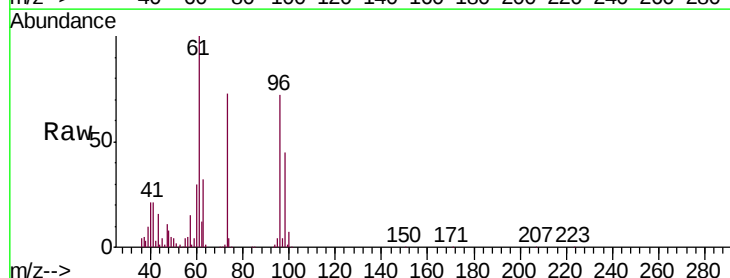
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

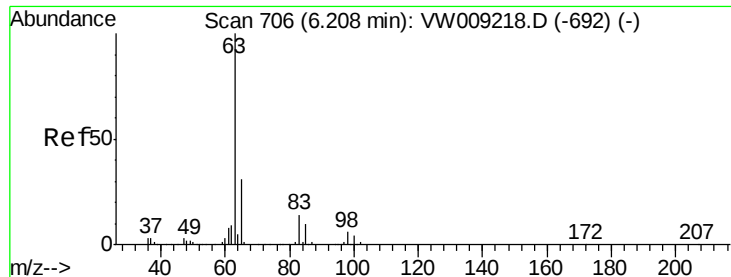
Tgt Ion: 73 Resp: 195553
Ion Ratio Lower Upper
73 100
43 23.4 18.2 27.4
57 22.1 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 26.649 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

Tgt Ion: 96 Resp: 155132
Ion Ratio Lower Upper
96 100
61 138.3 96.7 179.5
98 61.8 43.8 81.4

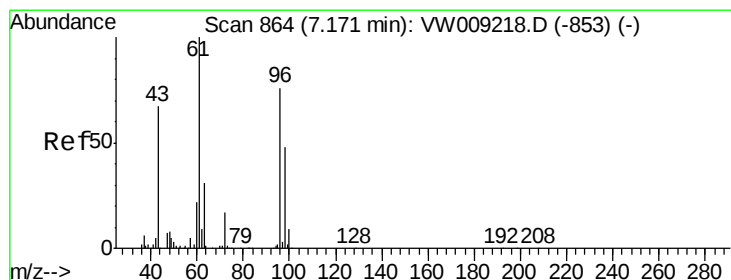
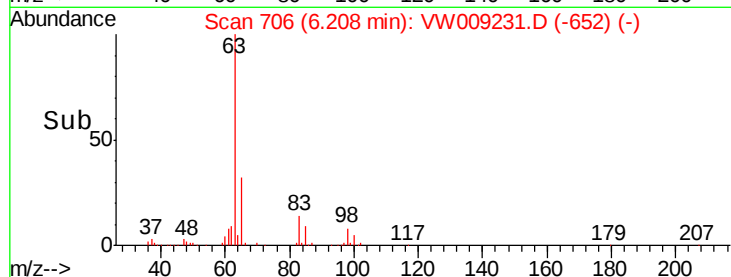
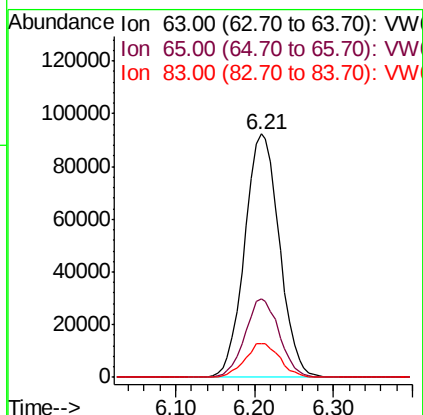
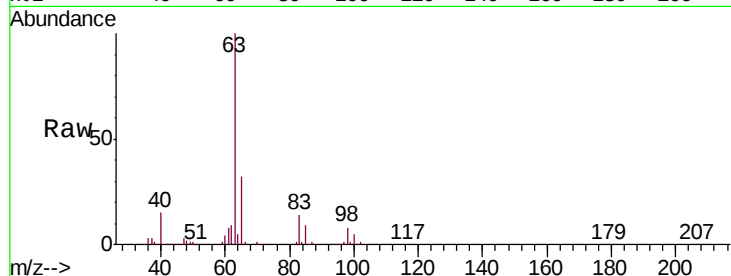




#19
 1,1-Dichloroethane
 Concen: 26.650 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

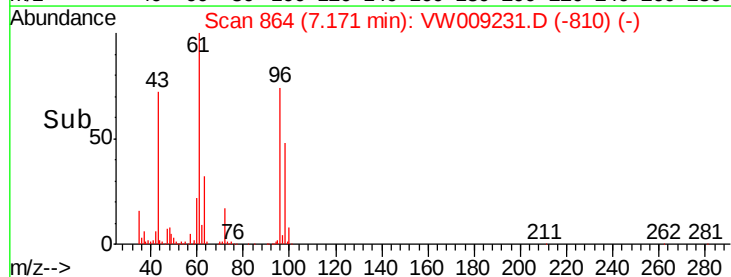
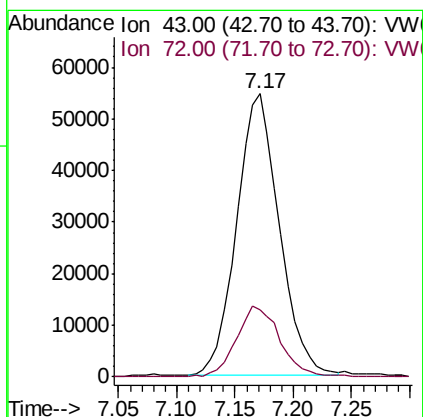
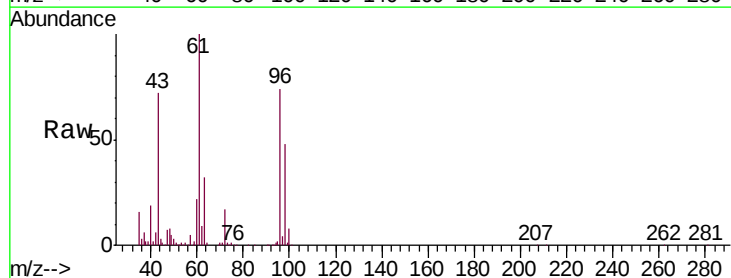
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

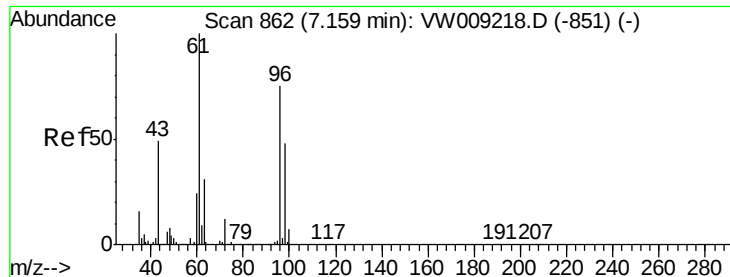
Tgt Ion: 63 Resp: 282876
 Ion Ratio Lower Upper
 63 100
 65 32.2 21.6 40.0
 83 13.9 10.1 18.7



#21
 2-Butanone
 Concen: 55.401 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

Tgt Ion: 43 Resp: 139394
 Ion Ratio Lower Upper
 43 100
 72 25.8 13.1 39.1



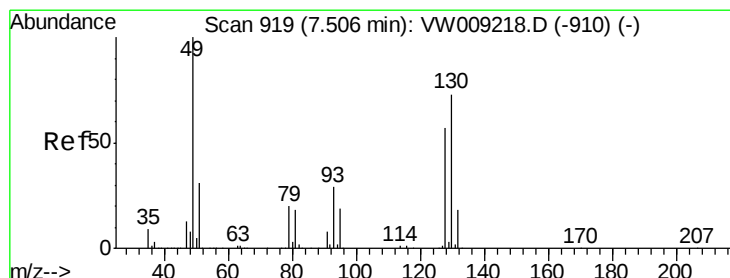
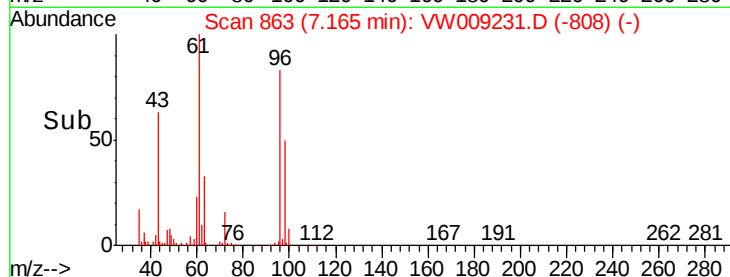
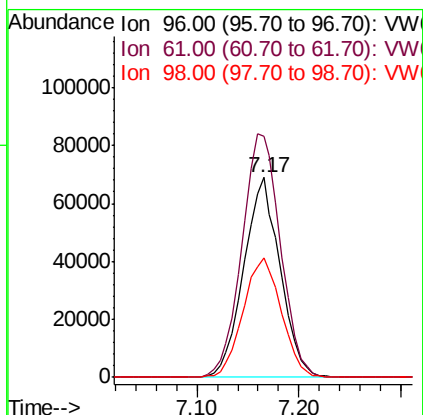
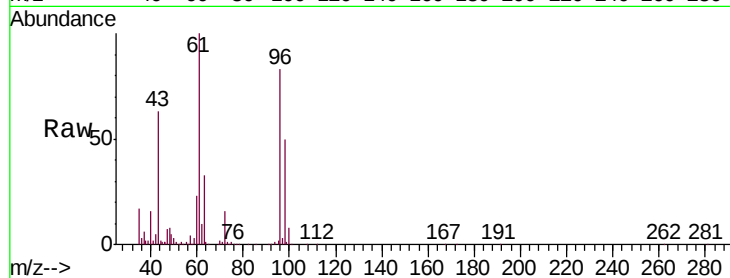


#22

cis-1,2-Dichloroethene
Concen: 27.097 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

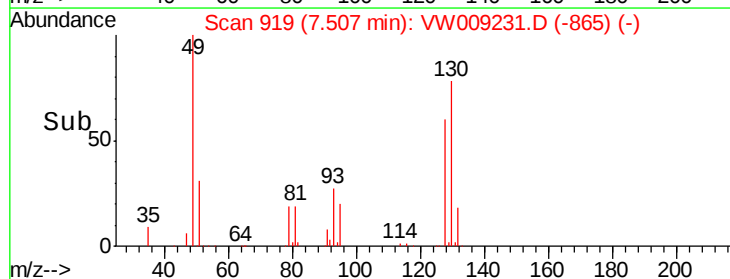
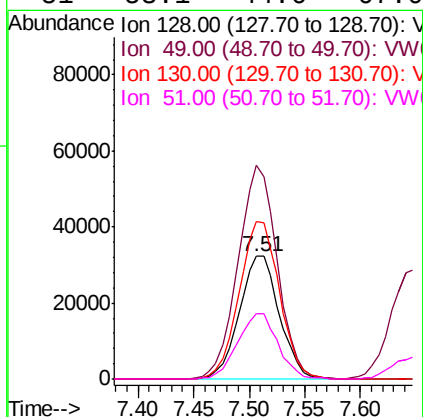
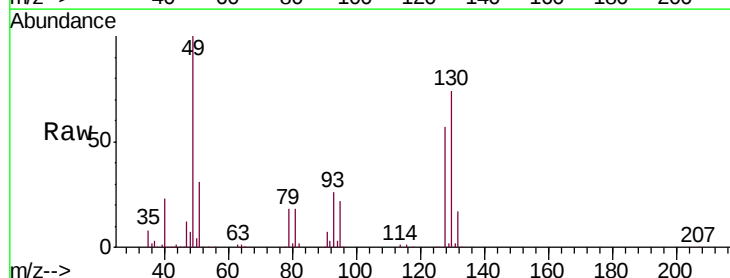
Tgt Ion: 96 Resp: 170877
Ion Ratio Lower Upper
96 100
61 120.9 90.6 168.3
98 60.0 44.0 81.8

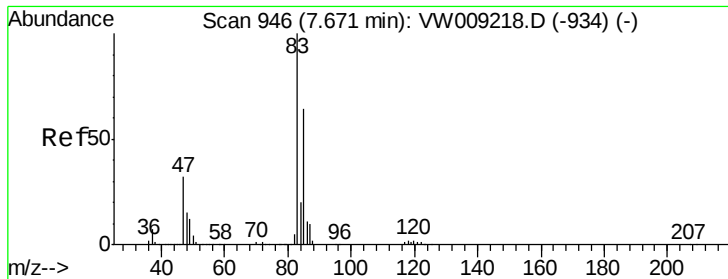


#23

Bromochloromethane
Concen: 26.647 ug/L
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

Tgt Ion: 128 Resp: 80598
Ion Ratio Lower Upper
128 100
49 174.1 118.4 219.8
130 128.7 87.8 163.2
51 53.1 44.6 67.0





#25

Chloroform

Concen: 27.060 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

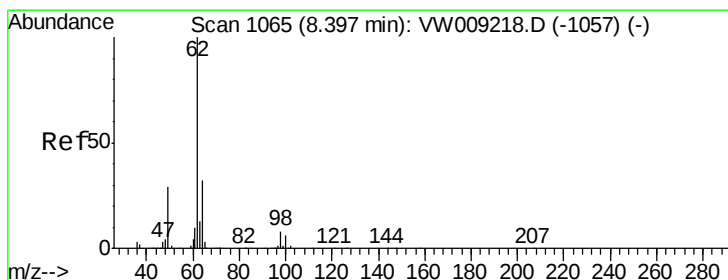
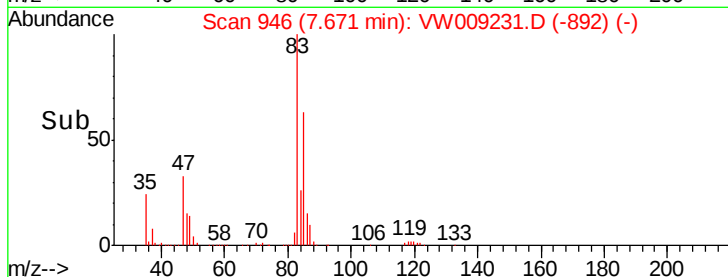
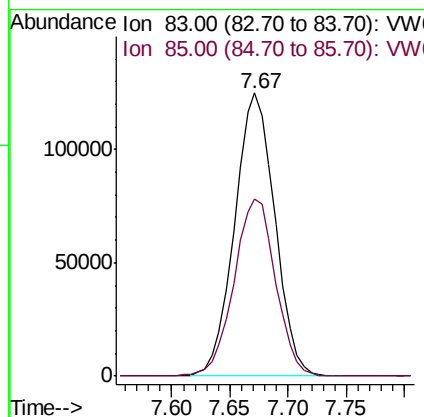
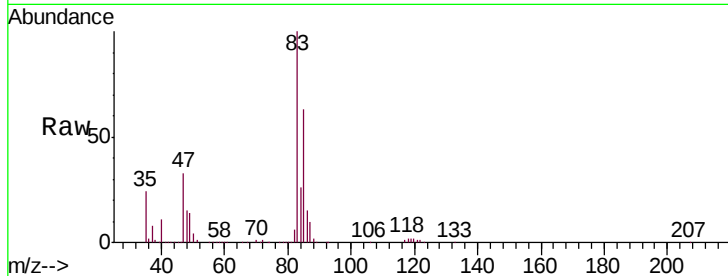
VSTD02513

Tgt Ion: 83 Resp: 300795

Ion Ratio Lower Upper

83 100

85 64.6 46.0 85.4



#27

1,2-Dichloroethane

Concen: 26.672 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW009231.D

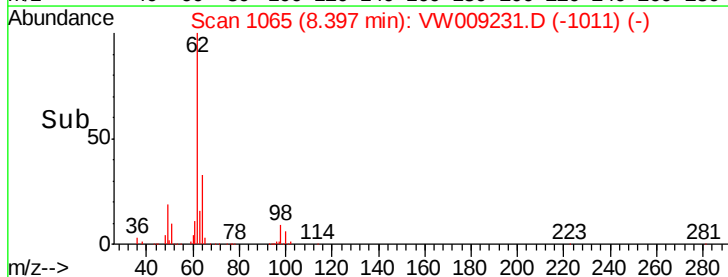
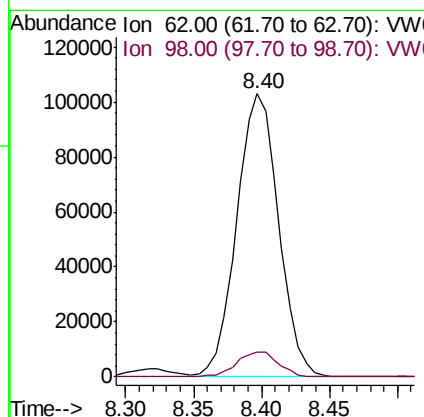
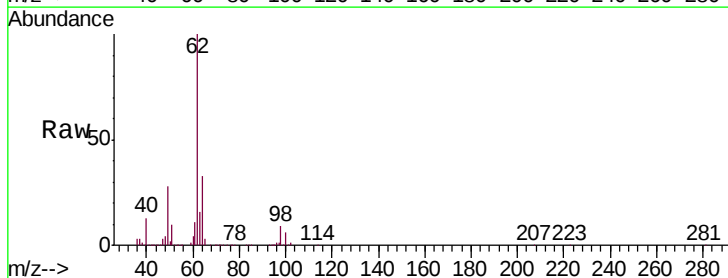
Acq: 18 Mar 2019 16:03

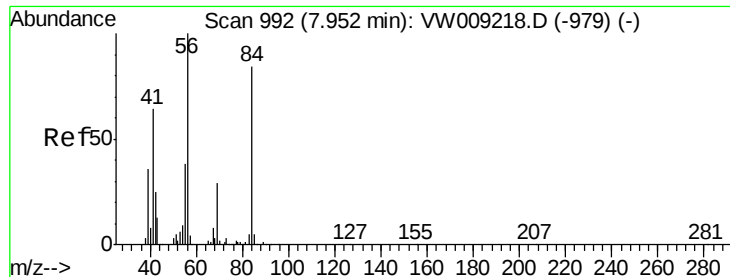
Tgt Ion: 62 Resp: 221045

Ion Ratio Lower Upper

62 100

98 8.8 7.3 10.9

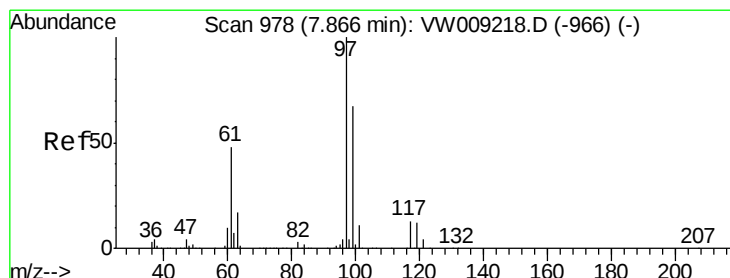
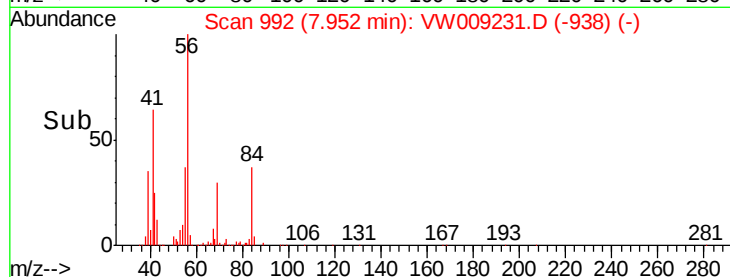
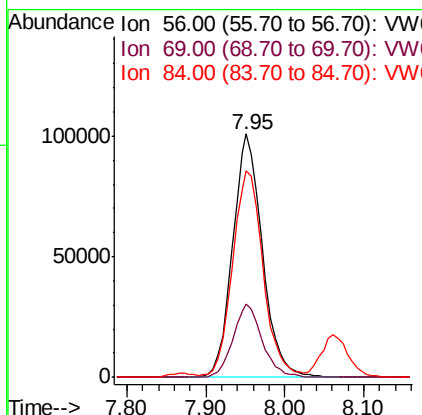
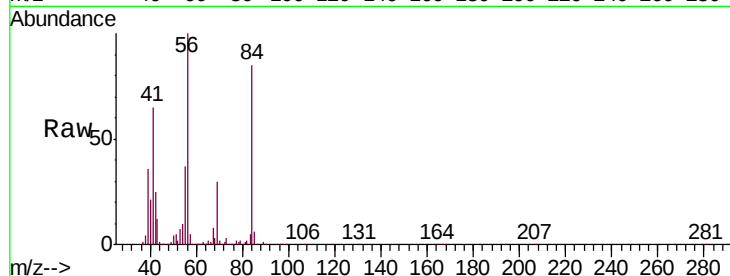




#30
Cyclohexane
Concen: 27.242 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

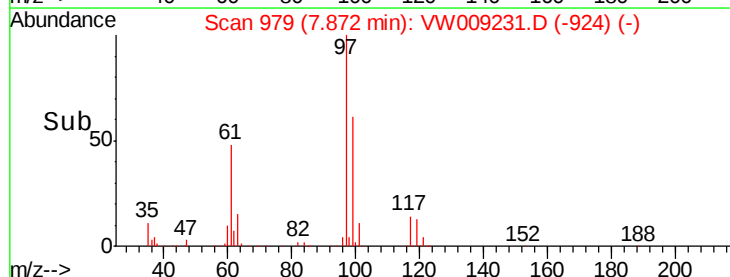
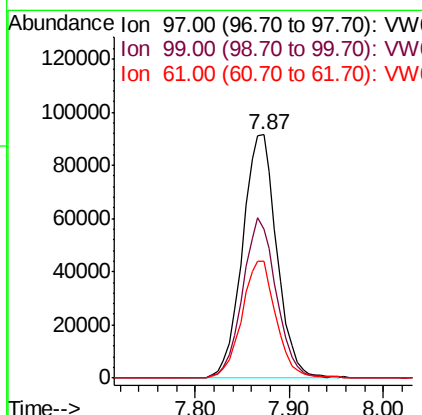
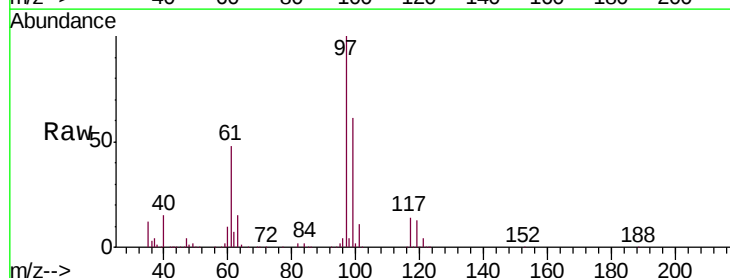
Instrument :
MSVOA_W
ClientSampled :
VSTD02513

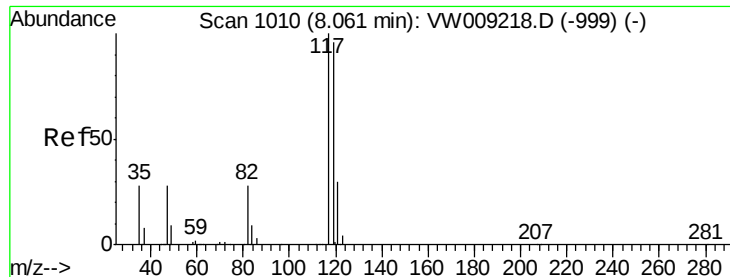
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.0	36.0
84	87.6	69.2	103.8



#31
1,1,1-Trichloroethane
Concen: 27.479 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.2	76.8
61	47.6	38.4	57.6





#32

Carbon tetrachloride

Concen: 28.611 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

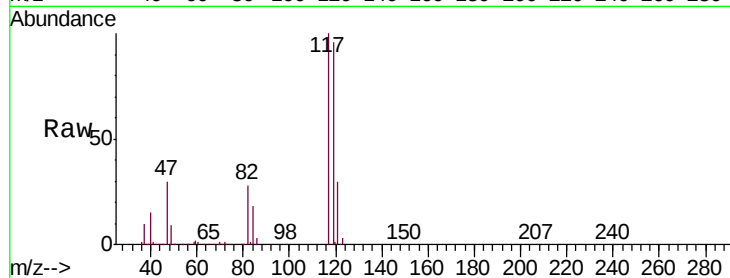
VSTD02513

Tgt Ion:117 Resp: 245972

Ion Ratio Lower Upper

117 100

119 95.6 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.06

100000

80000

60000

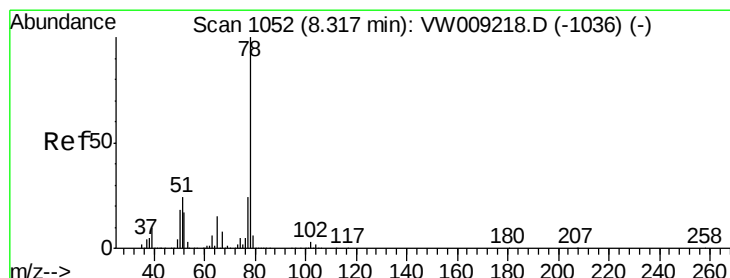
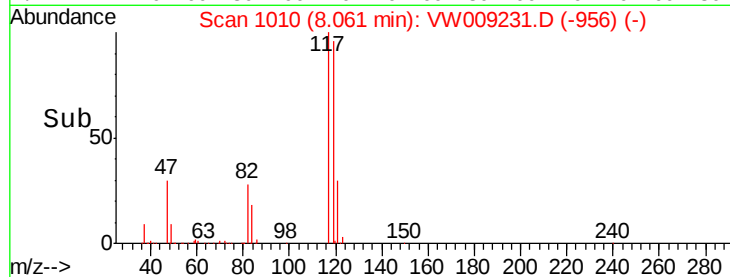
40000

20000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 27.482 ug/L

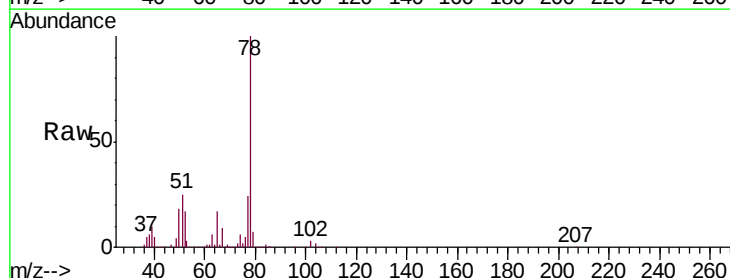
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Tgt Ion: 78 Resp: 641762



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

300000

250000

200000

150000

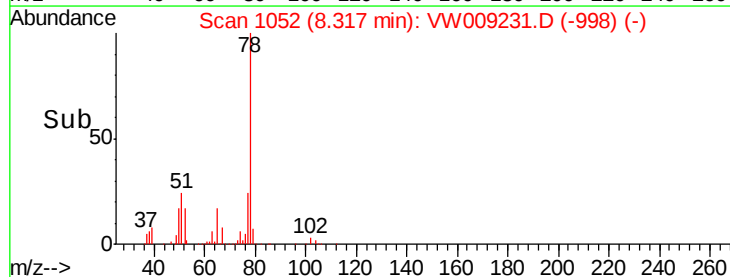
100000

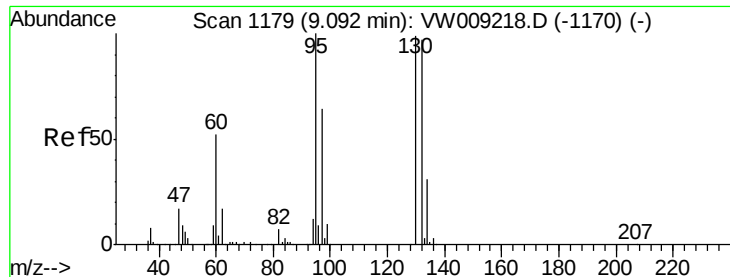
50000

0

8.20 8.30 8.40

Time-->





#35

Trichloroethene

Concen: 26.841 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

Tgt Ion: 95 Resp: 167015

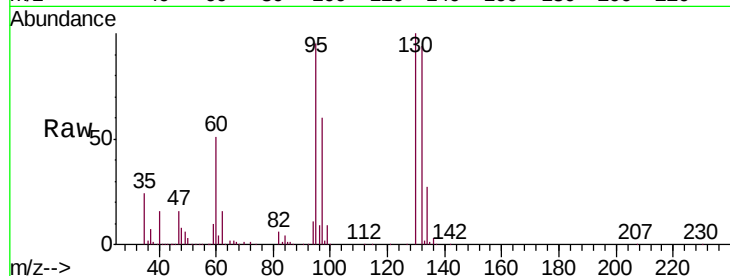
Ion Ratio Lower Upper

95 100

97 63.7 44.7 82.9

132 99.9 69.0 128.2

130 103.7 72.7 134.9



Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW

100000

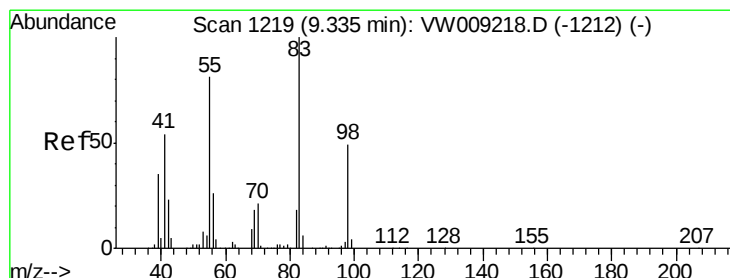
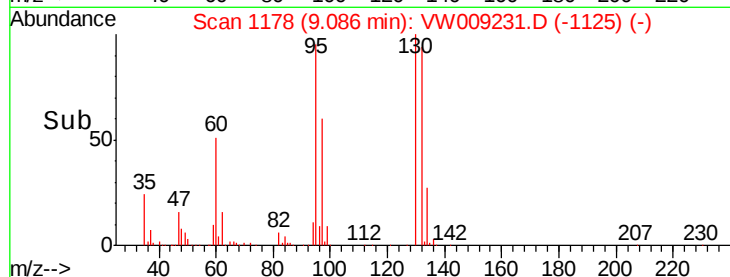
50000

0

9.09

9.00 9.05 9.10 9.15

Time-->



#36

Methylcyclohexane

Concen: 27.439 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

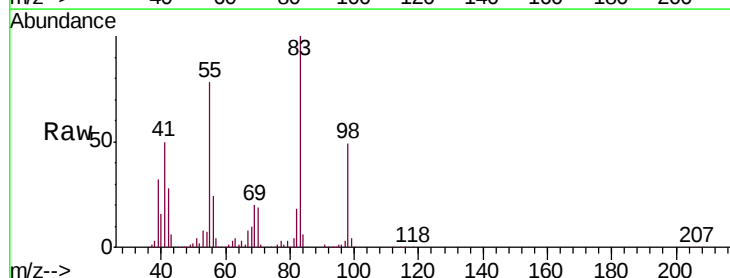
Tgt Ion: 83 Resp: 295382

Ion Ratio Lower Upper

83 100

55 80.2 63.5 95.3

98 49.6 39.8 59.8



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

200000

150000

100000

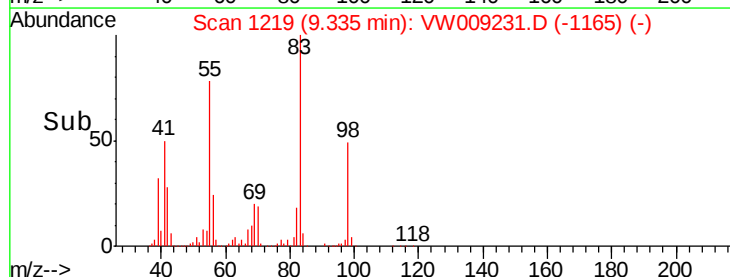
50000

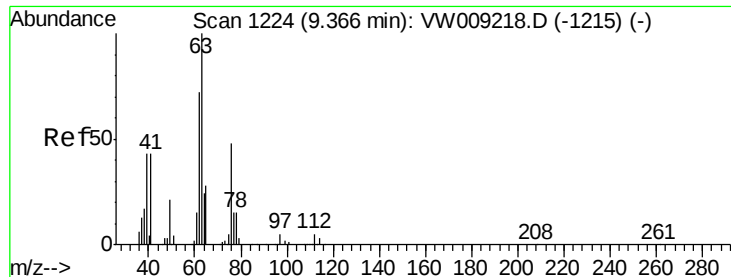
0

9.34

9.25 9.30 9.35 9.40

Time-->

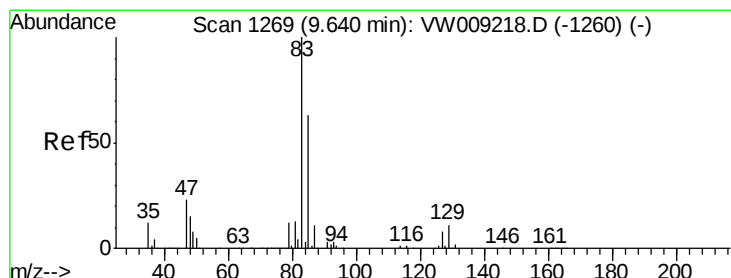
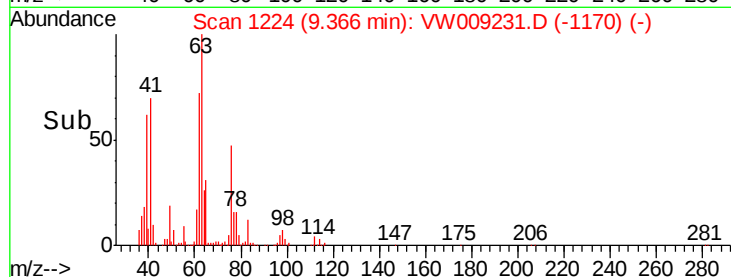
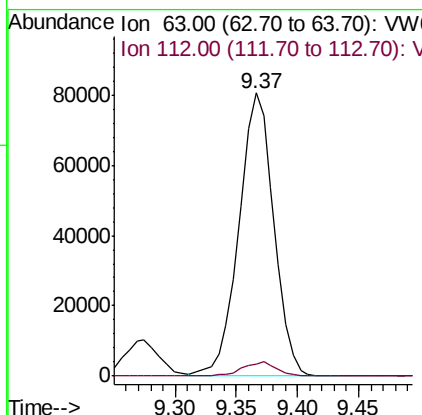
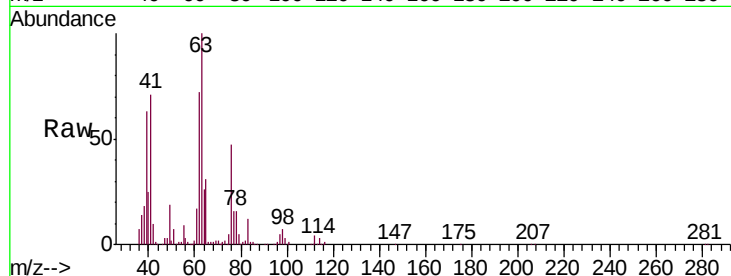




#40
 1,2-Dichloropropane
 Concen: 26.654 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

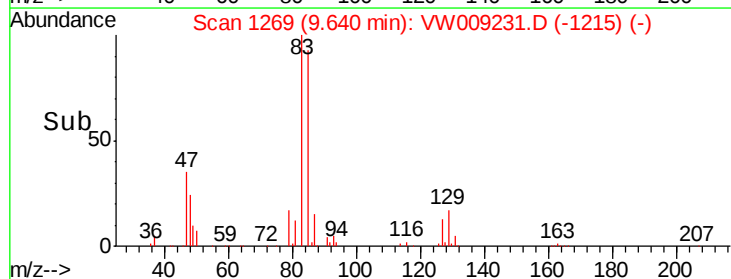
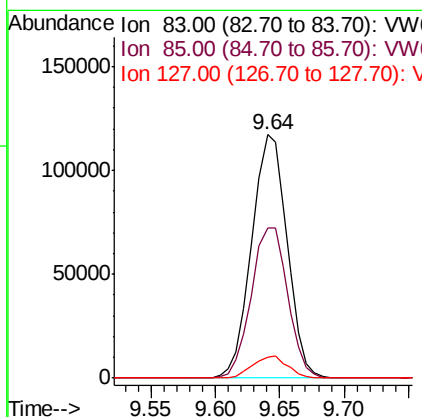
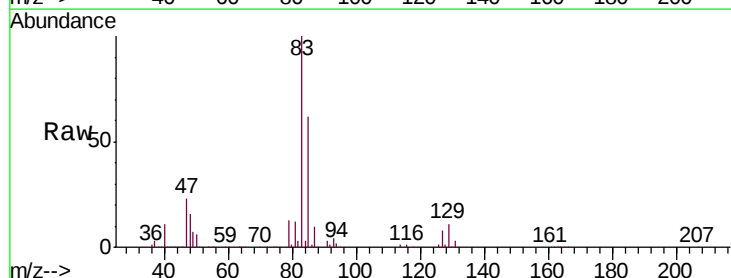
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

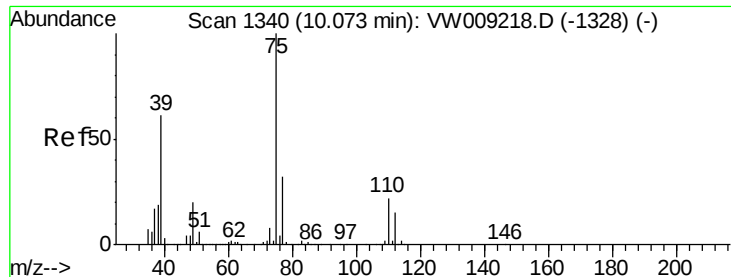
Tgt Ion: 63 Resp: 159716
 Ion Ratio Lower Upper
 63 100
 112 5.0 4.0 6.0



#41
 Bromodichloromethane
 Concen: 26.878 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

Tgt Ion: 83 Resp: 223160
 Ion Ratio Lower Upper
 83 100
 85 61.6 43.5 80.7
 127 8.4 6.2 9.4





#42

cis-1,3-Dichloropropene

Concen: 26.734 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

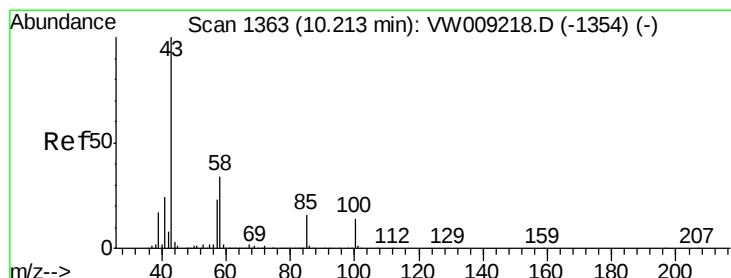
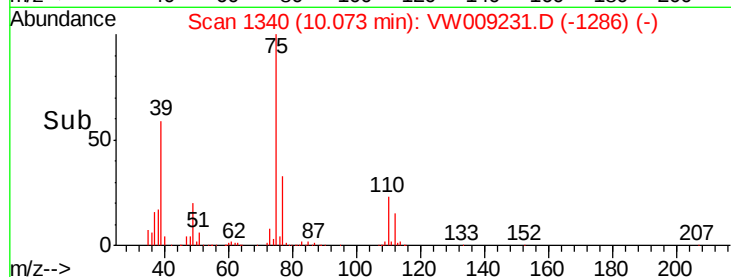
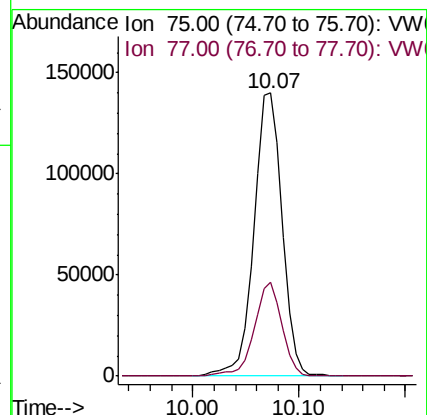
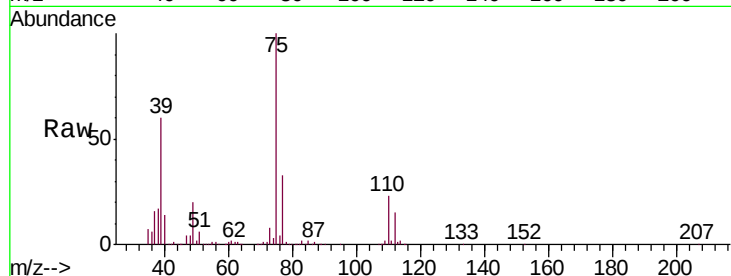
VSTD02513

Tgt Ion: 75 Resp: 260920

Ion Ratio Lower Upper

75 100

77 33.3 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 53.253 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

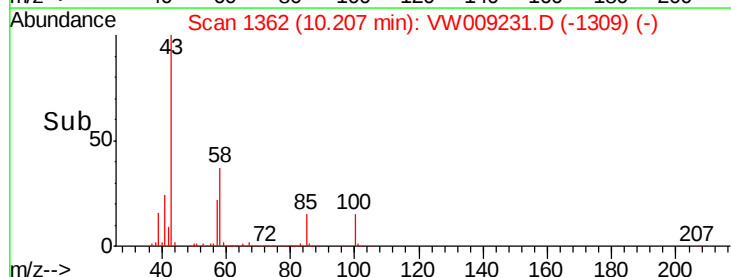
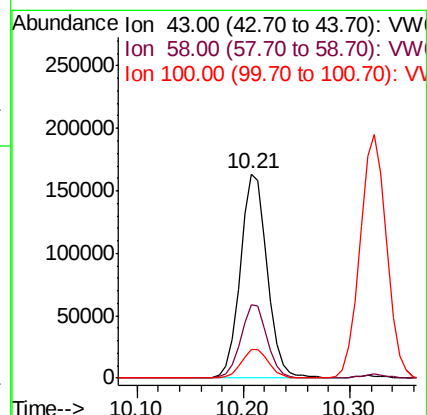
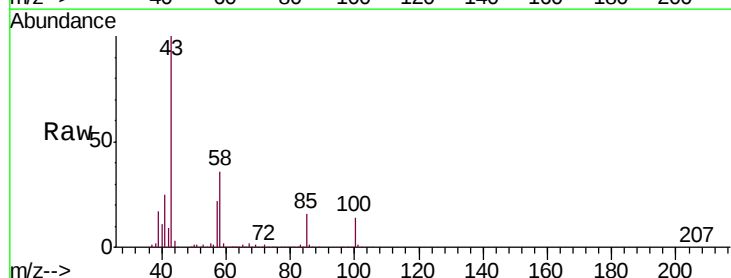
Tgt Ion: 43 Resp: 289157

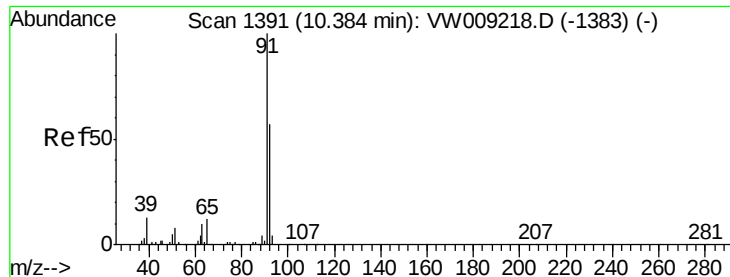
Ion Ratio Lower Upper

43 100

58 35.5 28.2 42.2

100 14.3 11.4 17.2





#44

Toluene

Concen: 27.434 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

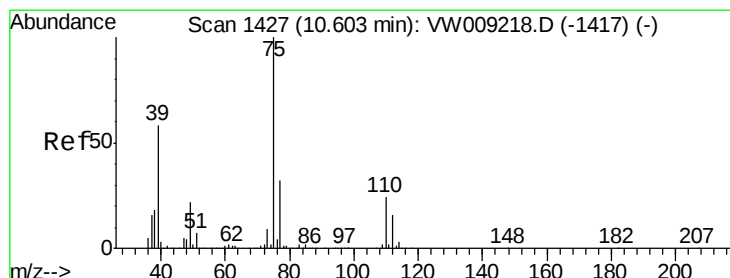
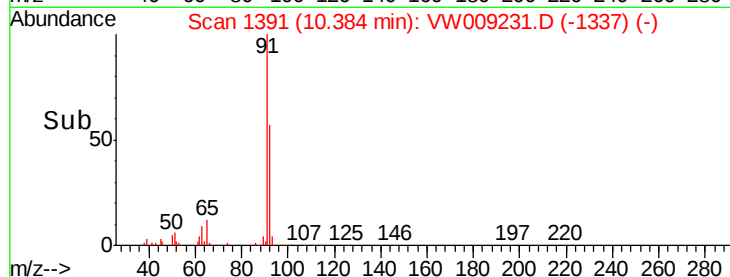
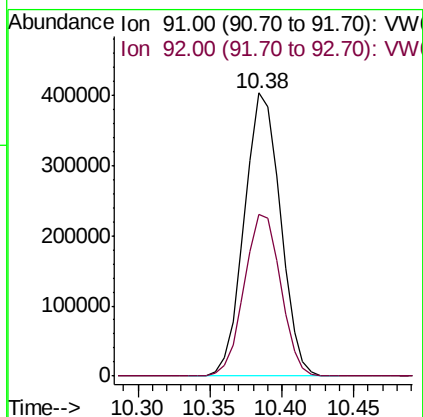
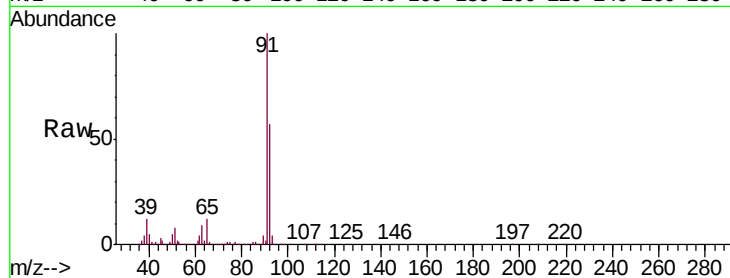
VSTD02513

Tgt Ion: 91 Resp: 700431

Ion Ratio Lower Upper

91 100

92 57.0 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 27.059 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009231.D

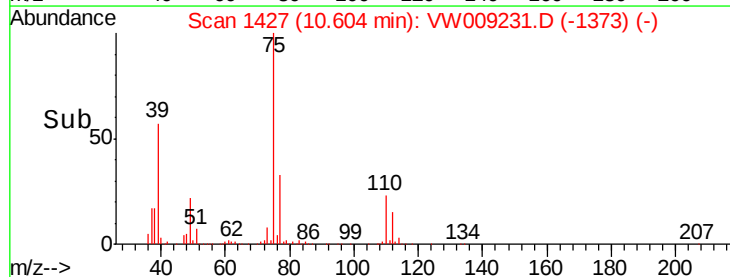
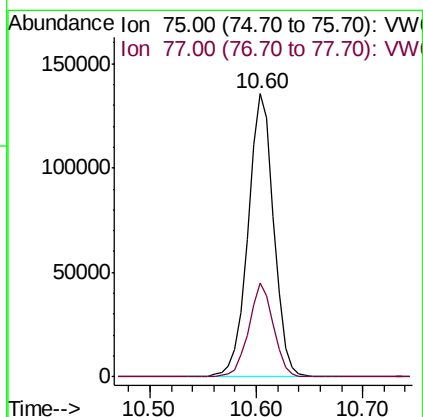
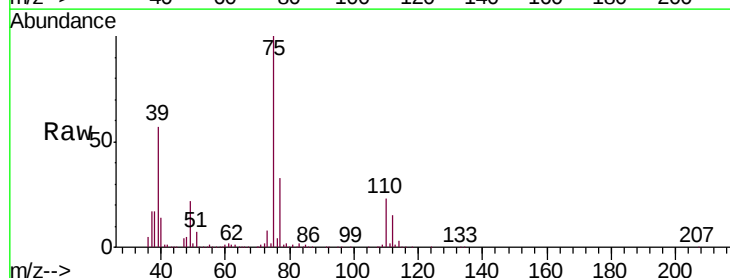
Acq: 18 Mar 2019 16:03

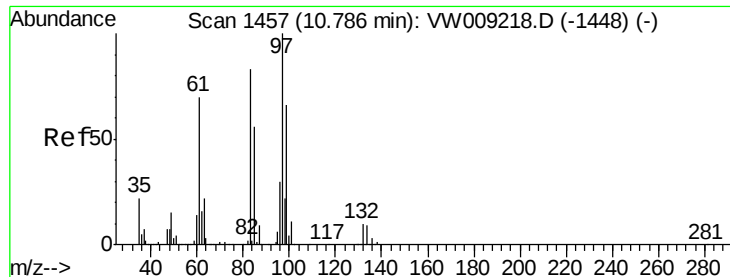
Tgt Ion: 75 Resp: 229731

Ion Ratio Lower Upper

75 100

77 33.2 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 27.118 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

Tgt Ion: 97 Resp: 129640

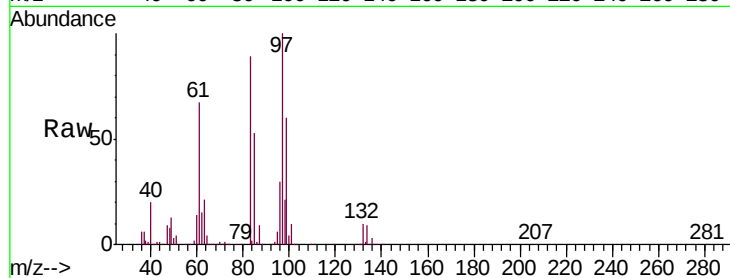
Ion Ratio Lower Upper

97 100

83 88.6 60.7 112.7

85 53.0 40.1 74.5

99 60.1 43.8 81.3

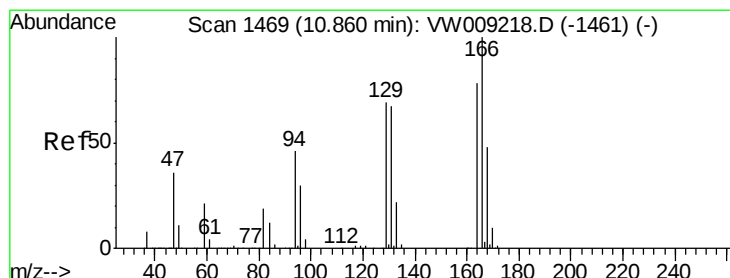
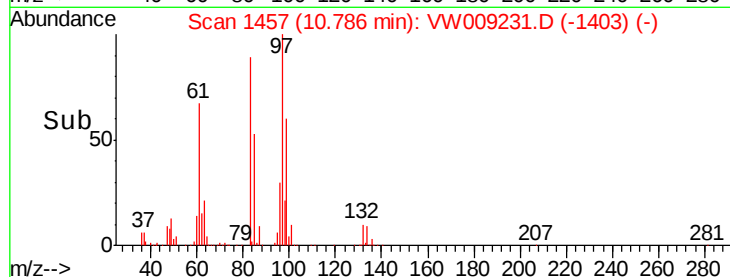
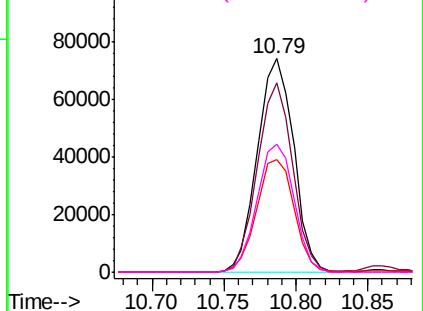


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 27.154 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Tgt Ion:164 Resp: 142762

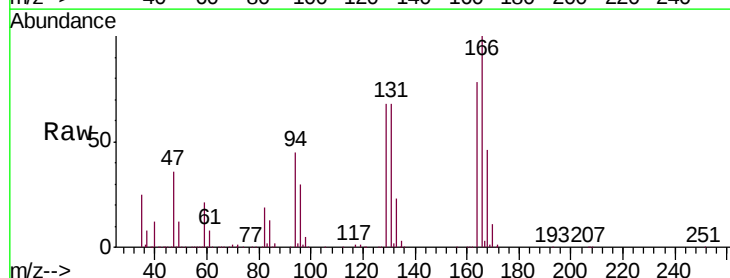
Ion Ratio Lower Upper

164 100

129 87.2 66.5 123.5

131 87.4 62.6 116.3

166 128.2 91.6 170.0

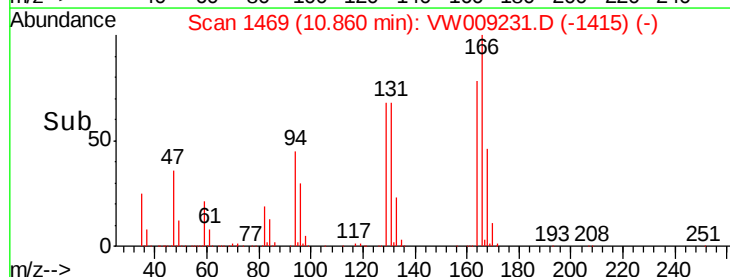
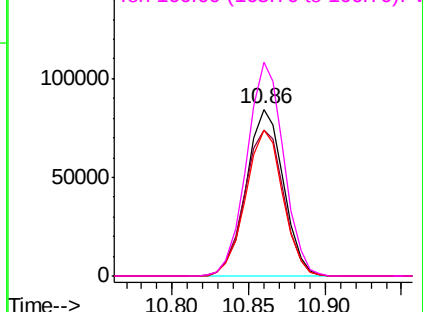


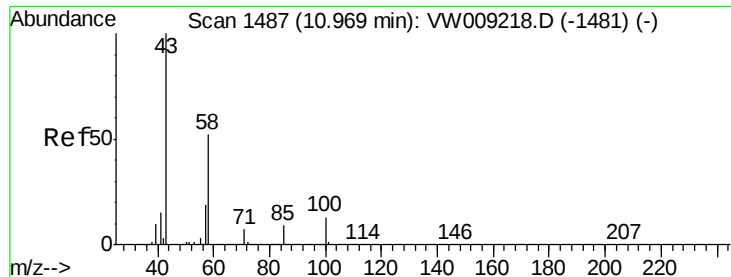
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

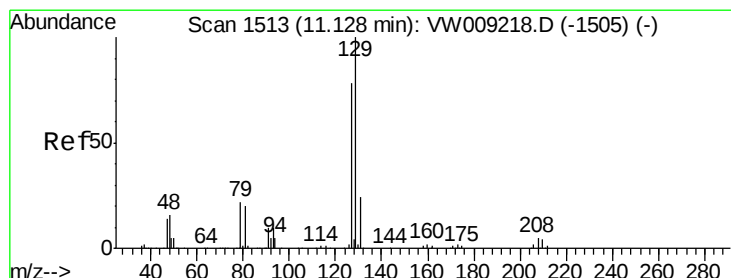
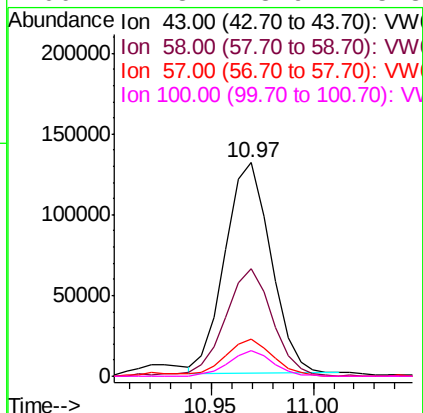
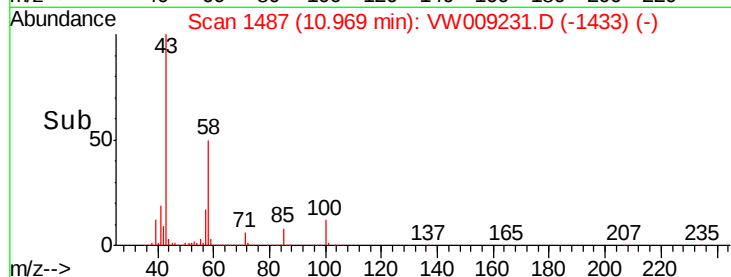
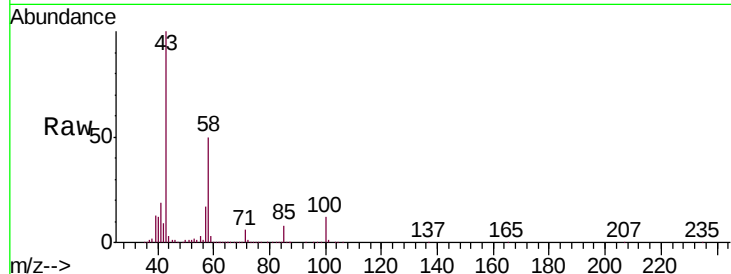




#49
2-Hexanone
Concen: 53.372 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

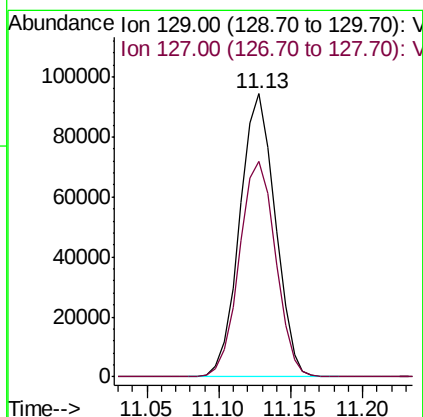
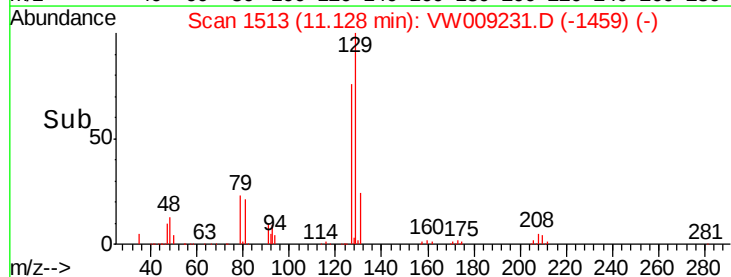
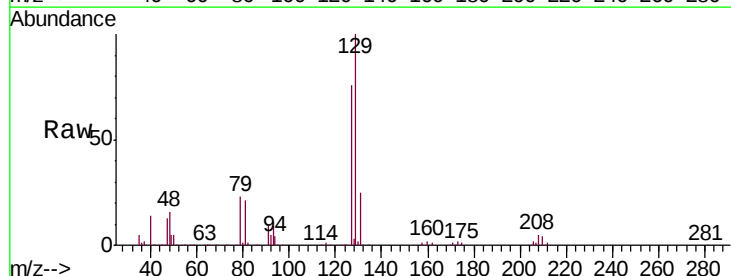
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

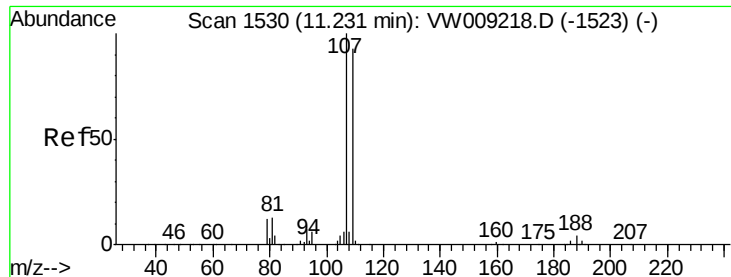
Tgt Ion: 43 Resp: 204113
Ion Ratio Lower Upper
43 100
58 52.2 39.2 58.8
57 18.0 14.2 21.2
100 11.8 8.9 13.3



#50
Dibromochloromethane
Concen: 27.390 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

Tgt Ion: 129 Resp: 161642
Ion Ratio Lower Upper
129 100
127 76.1 56.8 105.6

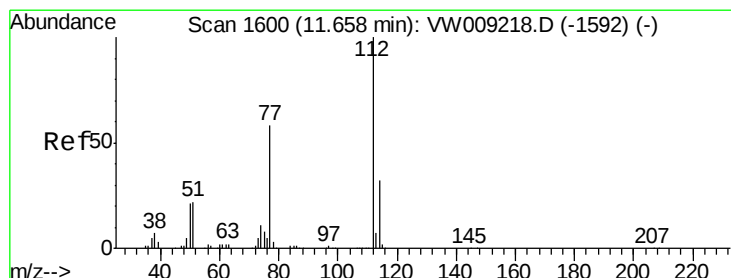
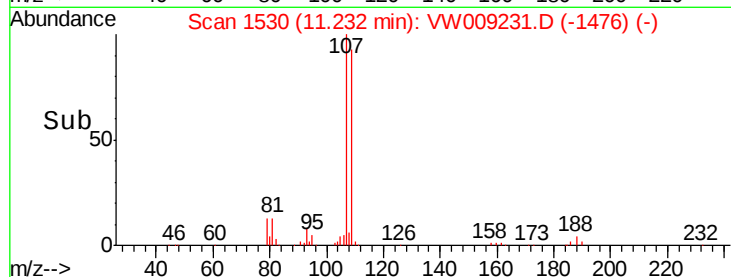
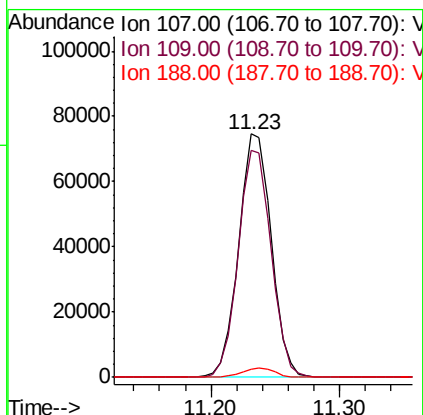
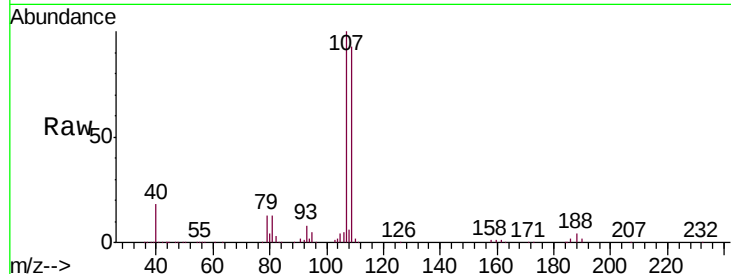




#51
 1,2-Dibromoethane
 Concen: 26.911 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

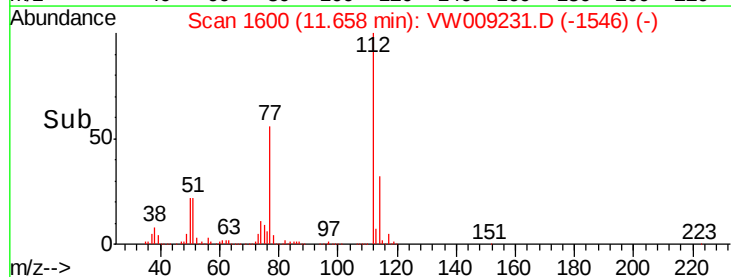
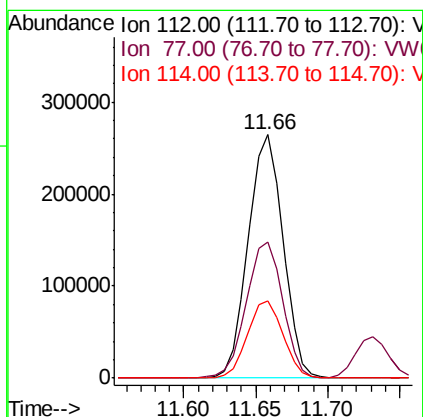
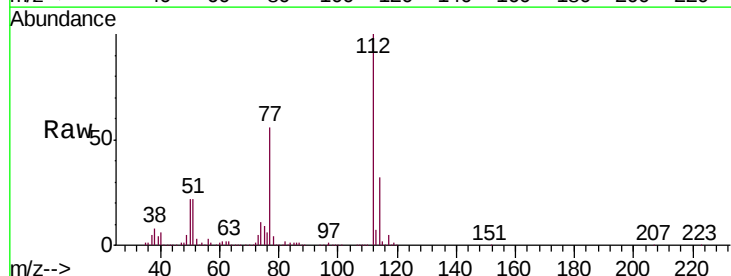
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

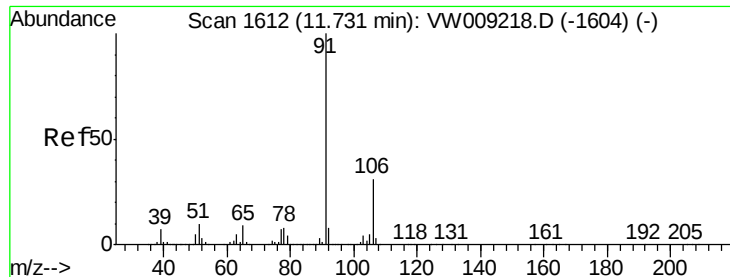
Tgt Ion:107 Resp: 130418
 Ion Ratio Lower Upper
 107 100
 109 93.4 68.0 126.4
 188 3.5 3.5 5.3



#52
 Chlorobenzene
 Concen: 27.078 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

Tgt Ion:112 Resp: 443415
 Ion Ratio Lower Upper
 112 100
 77 56.1 45.7 68.5
 114 31.9 22.8 42.4





#53

Ethylbenzene

Concen: 27.404 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

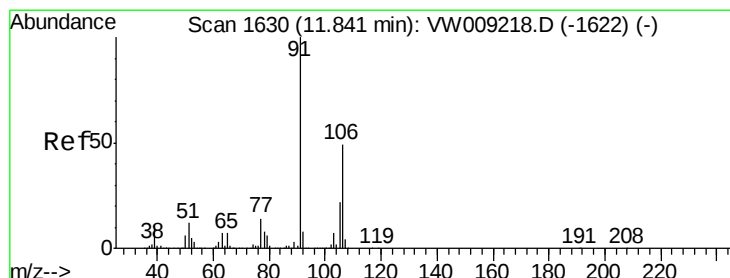
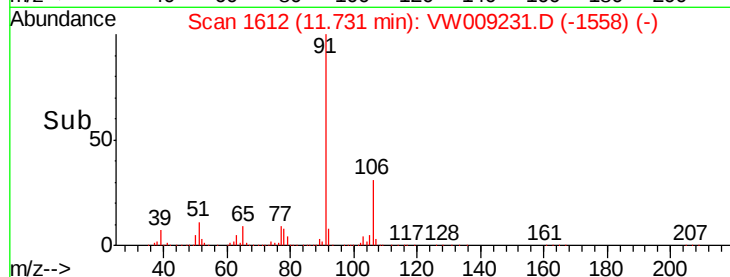
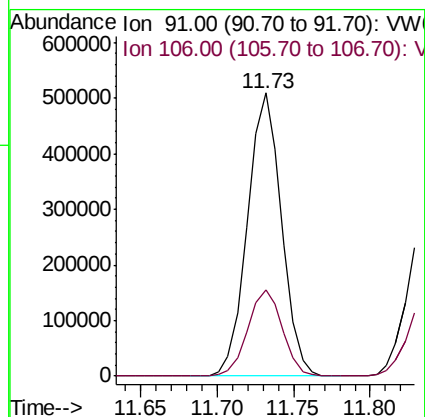
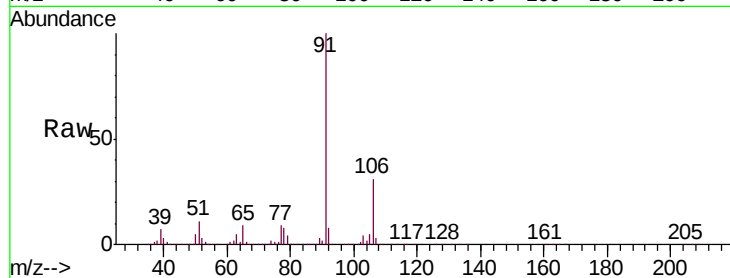
VSTD02513

Tgt Ion: 91 Resp: 786622

Ion Ratio Lower Upper

91 100

106 30.6 21.0 39.0



#54

m,p-Xylene

Concen: 27.424 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW009231.D

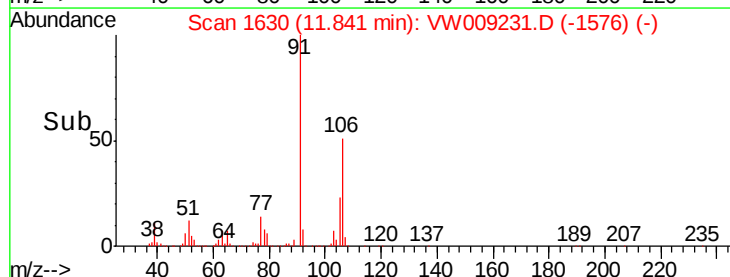
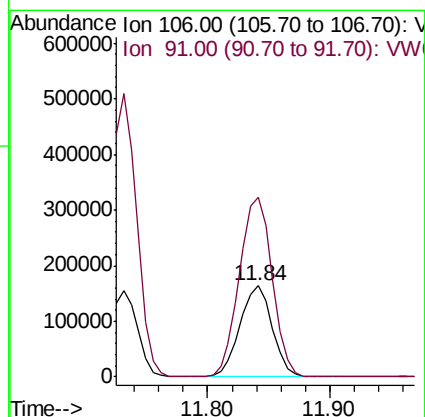
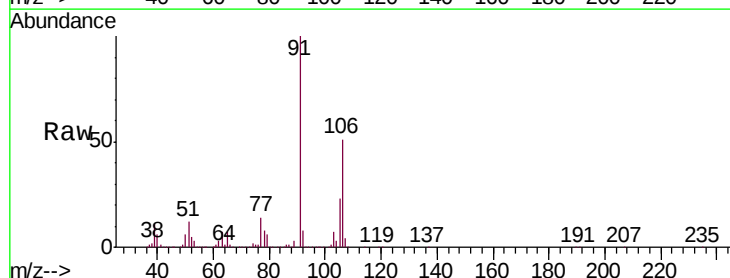
Acq: 18 Mar 2019 16:03

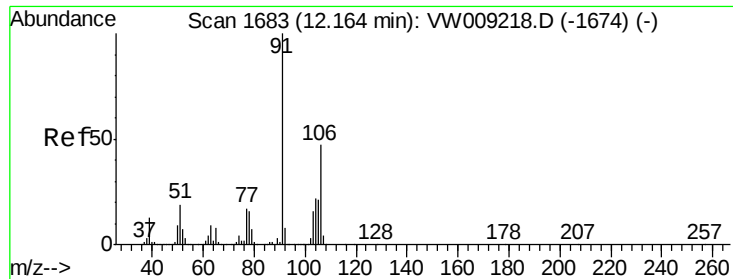
Tgt Ion: 106 Resp: 299069

Ion Ratio Lower Upper

106 100

91 197.5 138.4 257.0

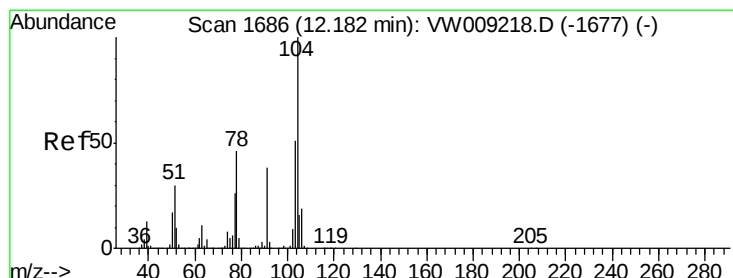
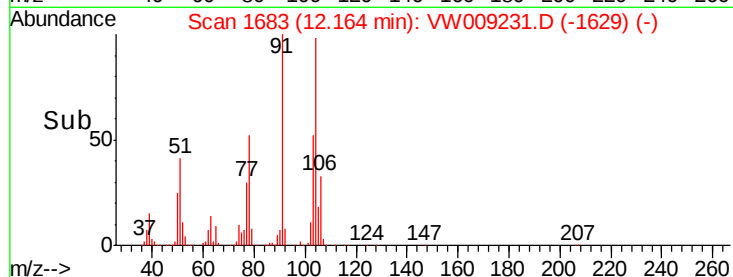
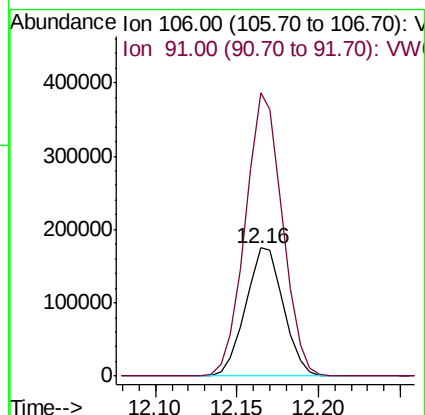
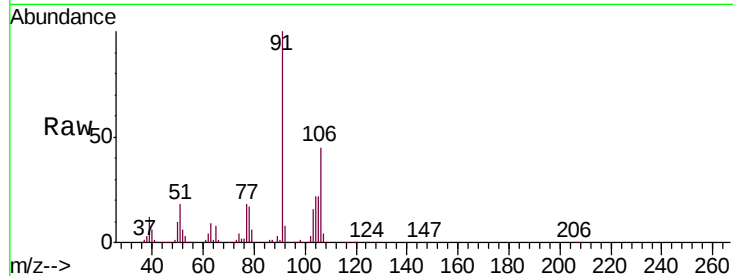




#55
o-xylene
Concen: 26.536 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

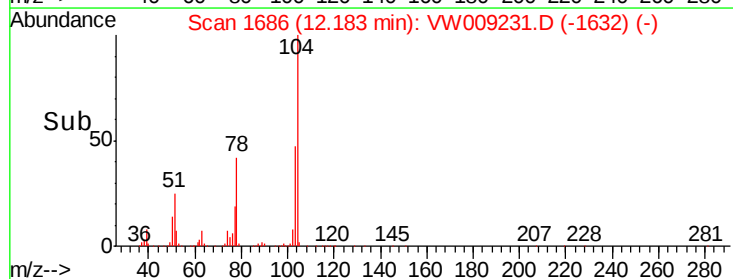
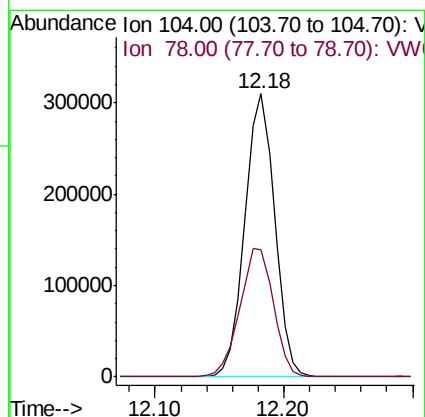
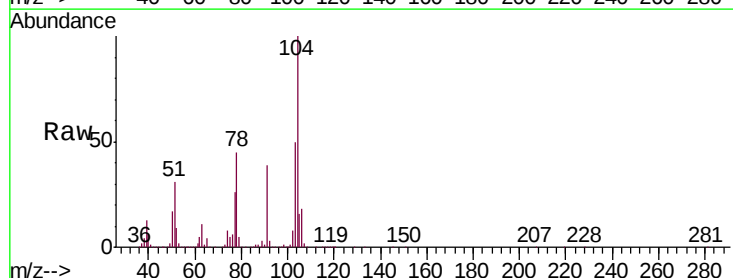
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

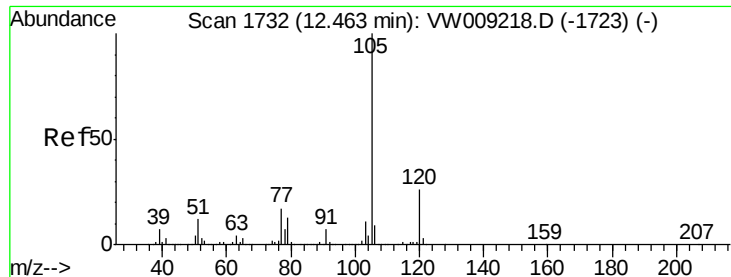
Tgt Ion:106 Resp: 282319
Ion Ratio Lower Upper
106 100
91 220.5 153.2 284.4



#56
Styrene
Concen: 27.309 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW009231.D
Acq: 18 Mar 2019 16:03

Tgt Ion:104 Resp: 495723
Ion Ratio Lower Upper
104 100
78 45.1 30.9 57.3





#57

Isopropylbenzene

Concen: 27.587 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

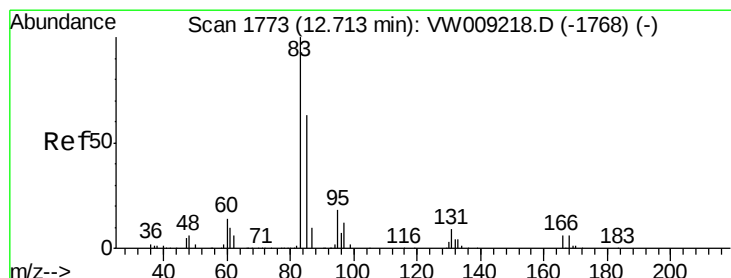
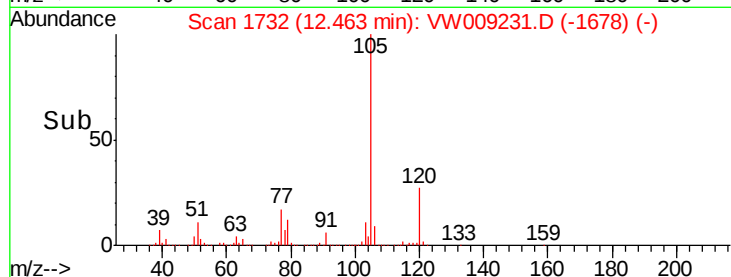
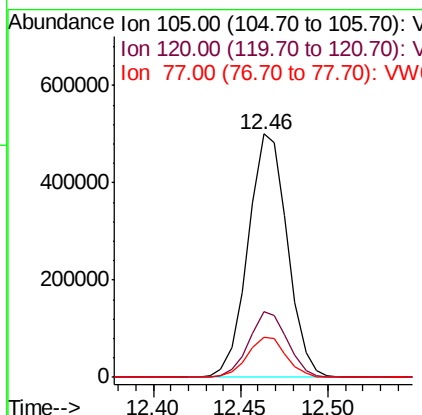
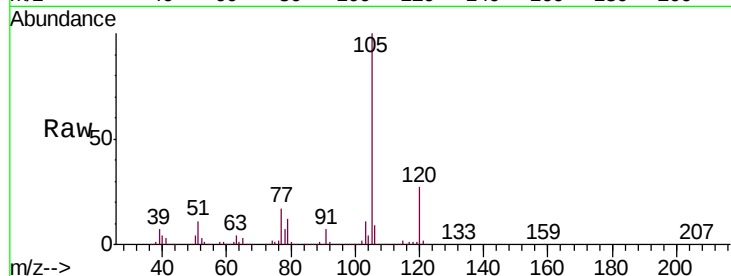
Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

Tgt Ion:	105	Resp:	786230
Ion Ratio	Lower	Upper	
105	100		
120	26.3	21.3	31.9
77	16.4	13.1	19.7



#58

1,1,2,2-Tetrachloroethane

Concen: 27.452 ug/L

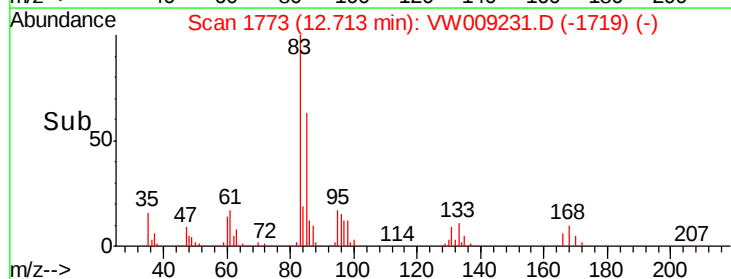
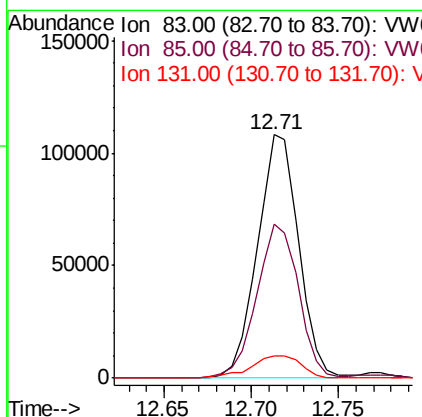
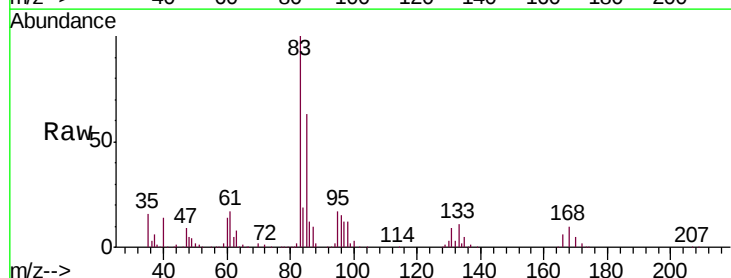
RT: 12.71 min Scan# 1773

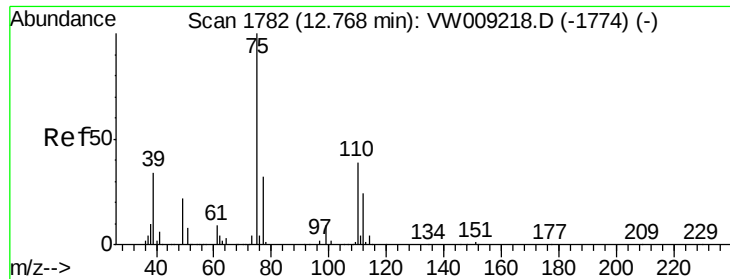
Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Tgt Ion:	83	Resp:	177048
Ion Ratio	Lower	Upper	
83	100		
85	63.2	45.6	84.8
131	9.0	9.2	13.8#





#59

1,2,3-Trichloropropane

Concen: 27.012 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

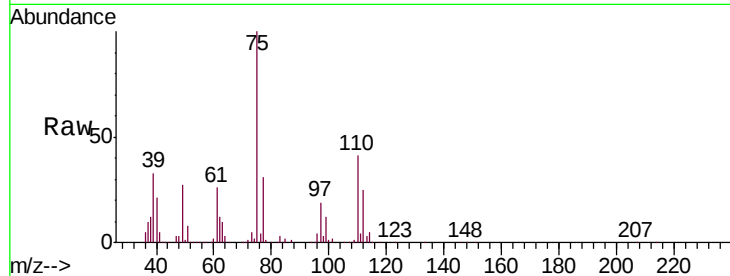
VSTD02513

Tgt Ion: 75 Resp: 129288

Ion Ratio Lower Upper

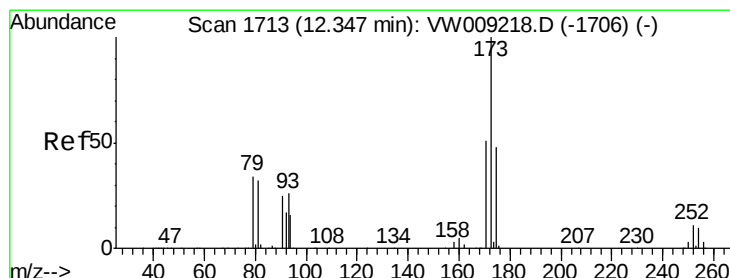
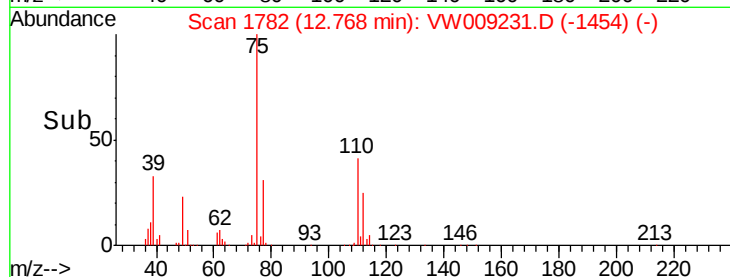
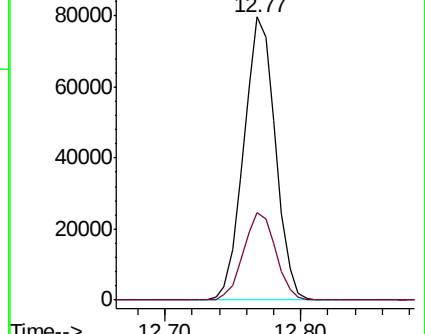
75 100

77 31.6 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#62

Bromoform

Concen: 27.521 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

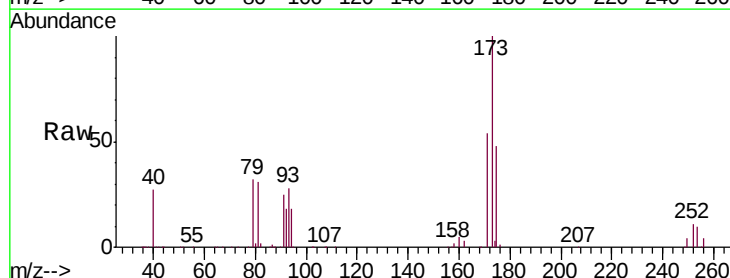
Tgt Ion: 173 Resp: 101553

Ion Ratio Lower Upper

173 100

175 48.2 39.7 59.5

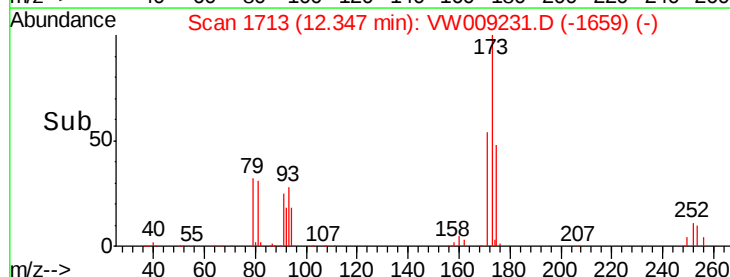
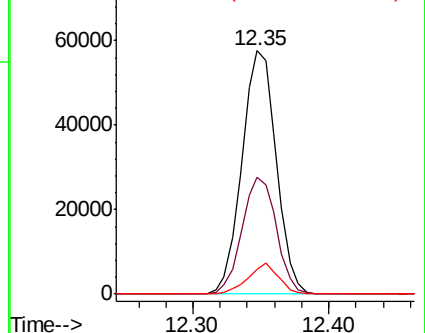
254 11.4 8.5 12.7

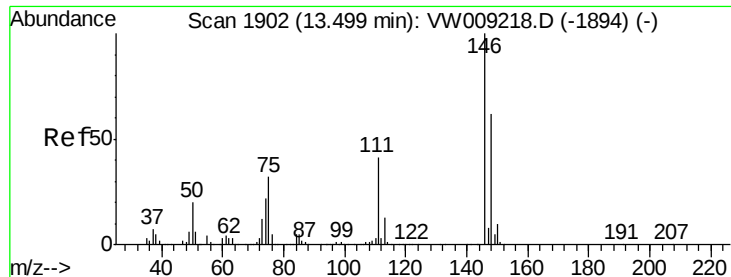


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

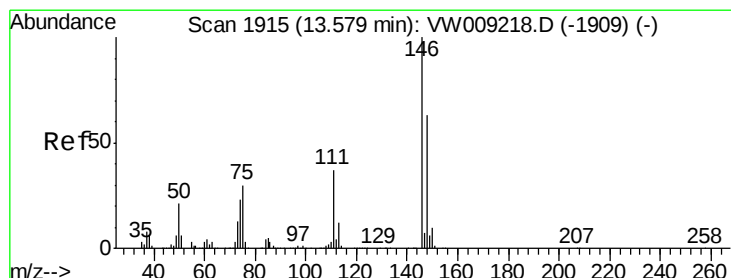
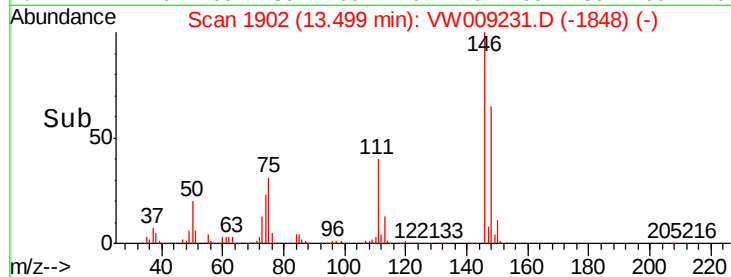
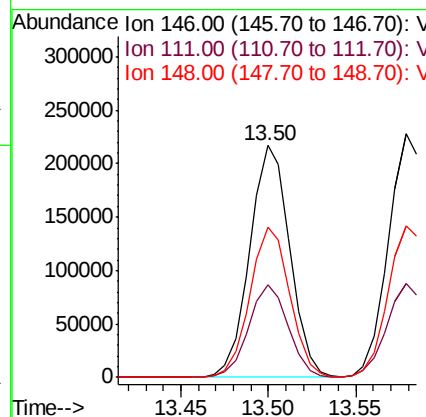
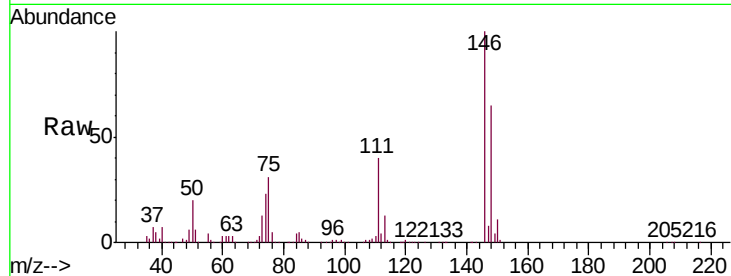




#63
 1,3-Dichlorobenzene
 Concen: 26.646 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

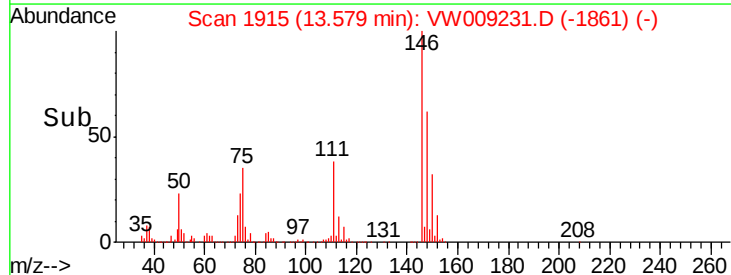
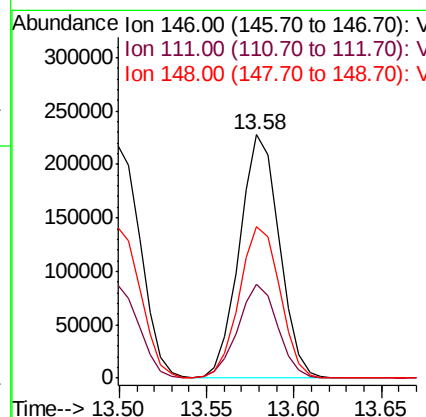
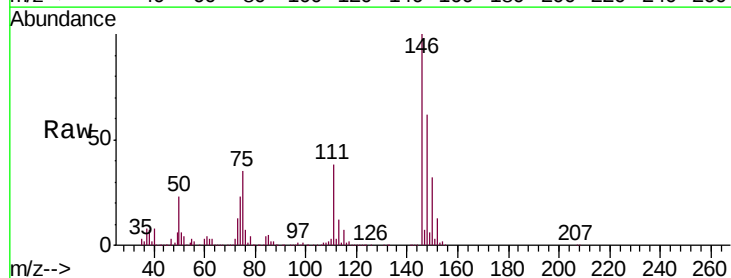
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

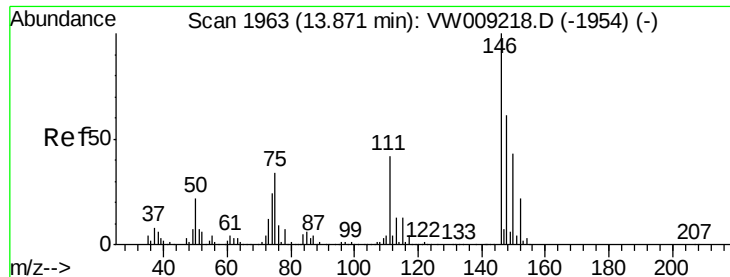
Tgt Ion:146 Resp: 346819
 Ion Ratio Lower Upper
 146 100
 111 39.7 26.9 49.9
 148 65.0 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 26.957 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

Tgt Ion:146 Resp: 362750
 Ion Ratio Lower Upper
 146 100
 111 38.4 27.8 51.6
 148 62.2 46.3 86.1

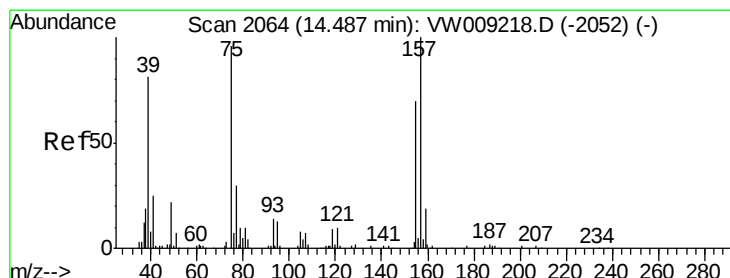
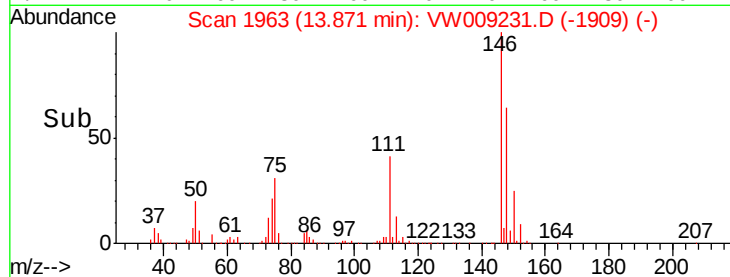
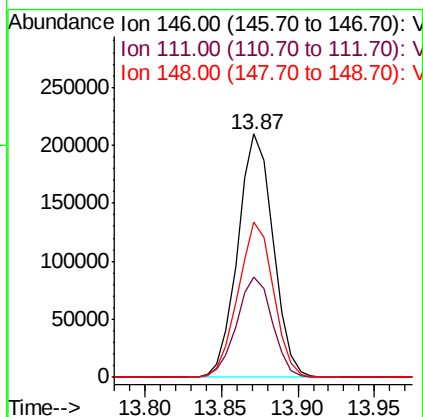
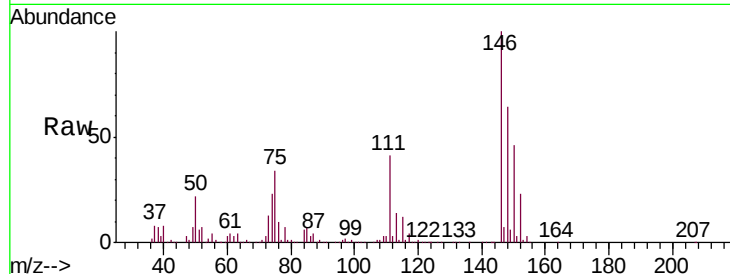




#65
 1,2-Dichlorobenzene
 Concen: 27.136 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

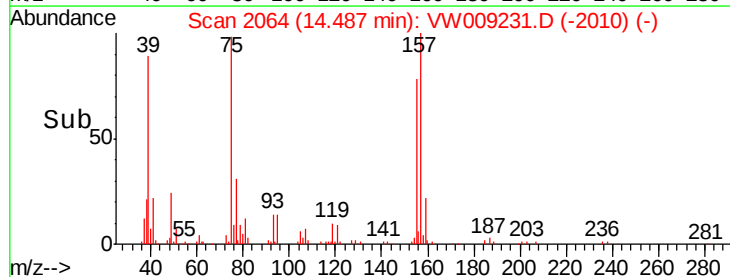
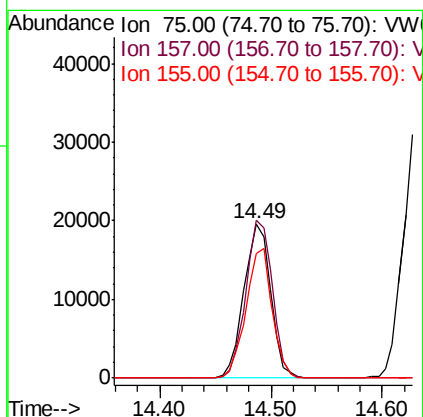
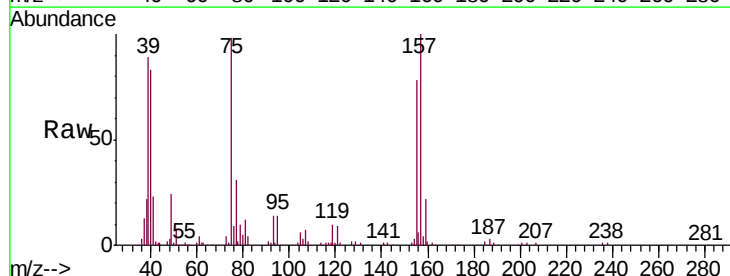
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

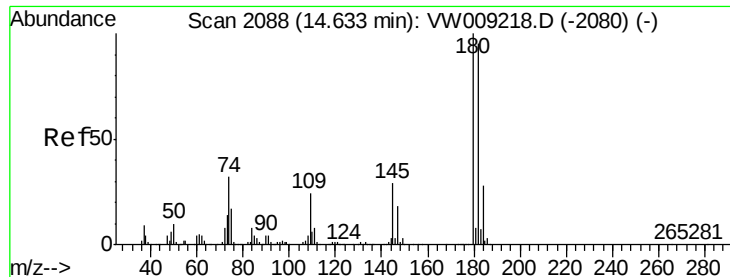
Tgt Ion: 146 Resp: 336831
 Ion Ratio Lower Upper
 146 100
 111 41.1 33.5 50.3
 148 64.0 50.2 75.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 27.056 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

Tgt Ion: 75 Resp: 32914
 Ion Ratio Lower Upper
 75 100
 157 102.2 89.0 133.4
 155 80.2 64.2 96.2

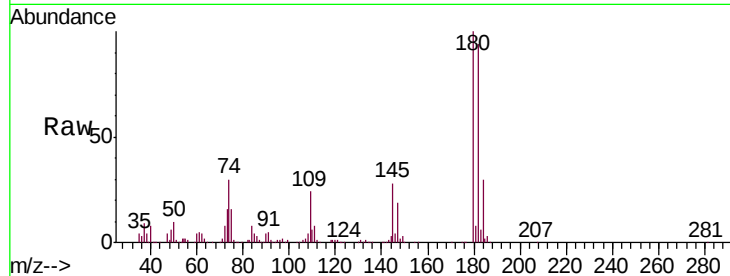




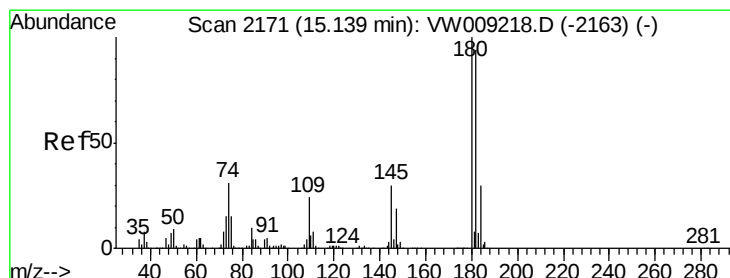
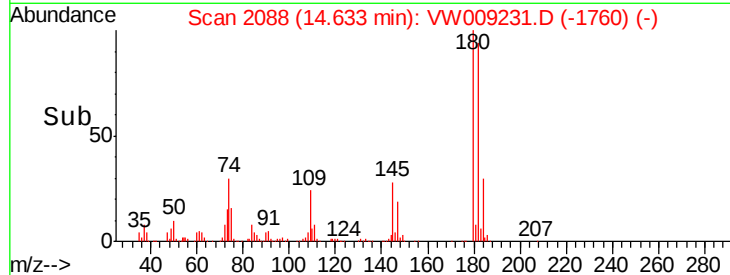
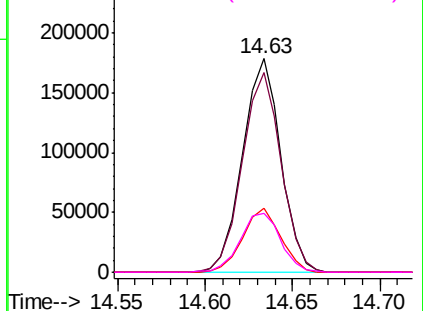
#67
 1,3,5-Trichlorobenzene
 Concen: 26.670 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

Tgt Ion:	180	Resp:	270756
Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.1	114.1
184	29.8	23.8	35.6
145	29.4	23.4	35.2

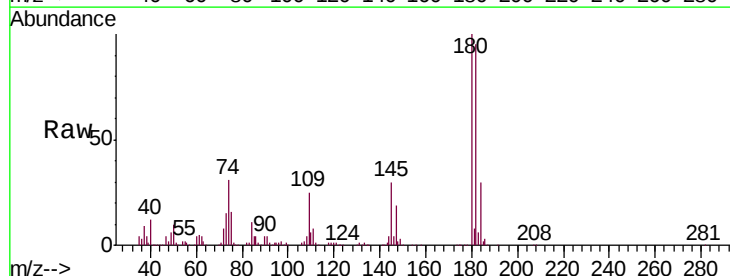


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

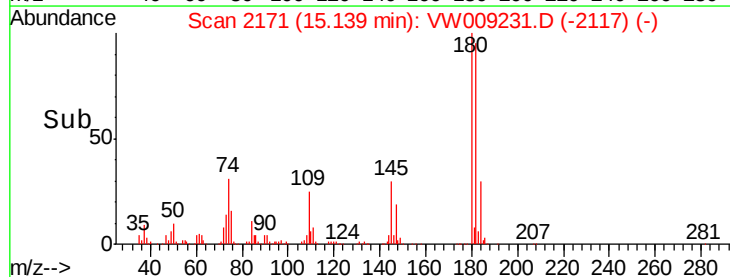
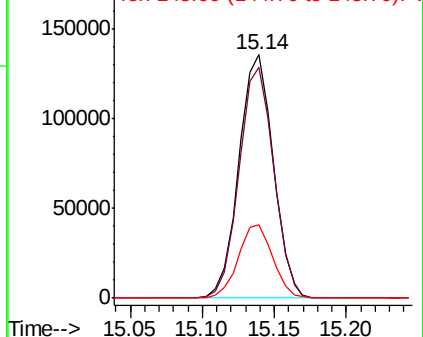


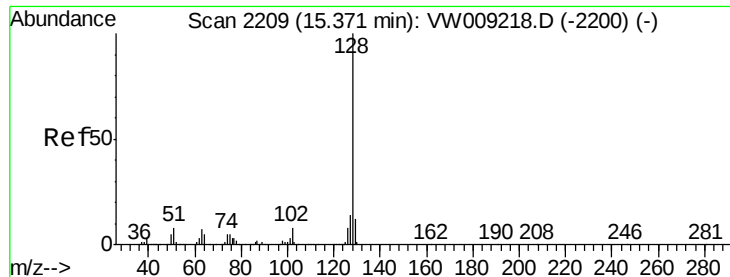
#68
 1,2,4-trichlorobenzene
 Concen: 26.210 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW009231.D
 Acq: 18 Mar 2019 16:03

Tgt Ion:	180	Resp:	223508
Ion	Ratio	Lower	Upper
180	100		
182	95.9	75.5	113.3
145	30.3	24.1	36.1



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





#69

Naphthalene

Concen: 27.220 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

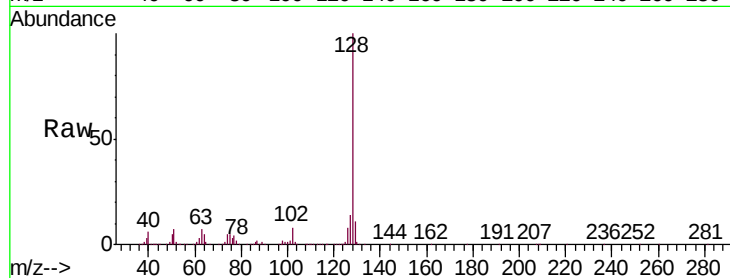
Tgt Ion:128 Resp: 481246

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

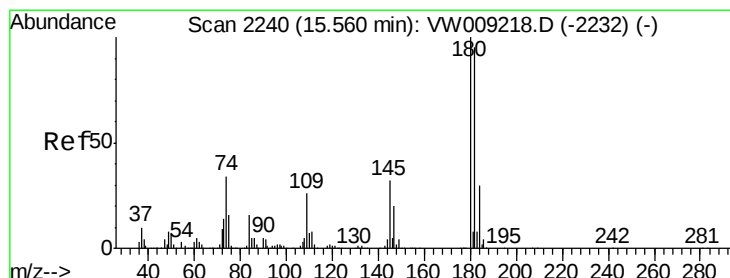
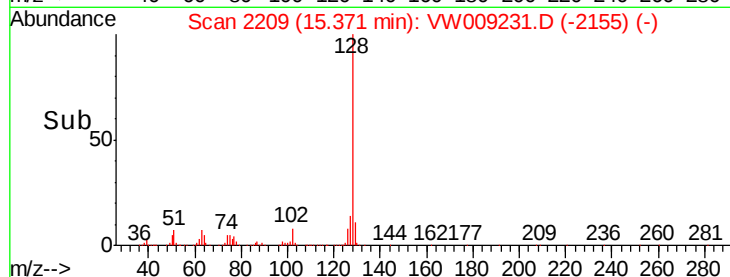
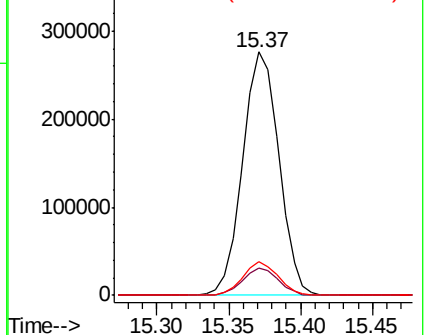
127 13.5 11.1 16.7



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: 26.882 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW009231.D

Acq: 18 Mar 2019 16:03

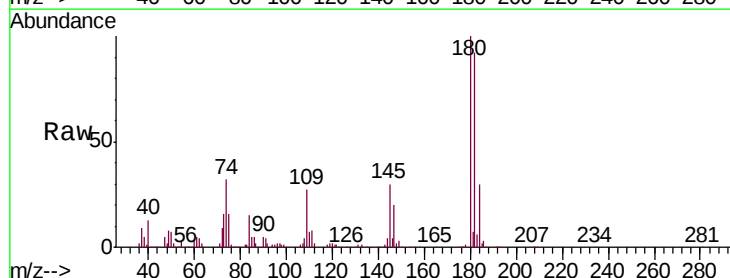
Tgt Ion:180 Resp: 214706

Ion Ratio Lower Upper

180 100

182 93.7 77.2 115.8

145 30.8 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

