

Data File : VW013621.D
Acq On : 18 Oct 2019 13:42
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02522

Quant Time: Oct 20 17:51:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis
QLast Update : Fri Oct 18 13:08:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	328402	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	316432	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	189798	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	91112	22.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.44%
7) Chloroethane-d5	2.89	69	80422	21.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.52%
10) 1,1-Dichloroethene-d2	4.03	63	190097	21.36	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.44%
20) 2-Butanone-d5	7.08	46	68868	47.79	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.58%
24) Chloroform-d	7.65	84	190266	20.71	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	82.84%
26) 1,2-Dichloroethane-d4	8.31	65	99060	20.61	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	82.44%
29) Benzene-d6	8.27	84	401475	21.12	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	84.48%
33) 1,2-Dichloropropane-d6	9.27	67	117941	20.77	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	83.08%
37) Toluene-d8	10.32	98	367320	20.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	83.80%
38) trans-1,3-Dichloropropene-	10.58	79	54216	21.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	84.68%
39) 2-Hexanone-d5	10.92	63	54605	50.31	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.62%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	106797	22.96	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.84%
61) 1,2-Dichlorobenzene-d4	13.85	152	138060	20.58	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	82.32%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	111349	30.145	ug/L 97
3) Chloromethane	2.21	50	99157	24.799	ug/L 99
5) Vinyl chloride	2.37	62	146233	29.265	ug/L 96
6) Bromomethane	2.78	94	86391	23.927	ug/L 99
8) Chloroethane	2.93	64	77875	23.062	ug/L 100
9) Trichlorofluoromethane	3.26	101	72409	21.500	ug/L 98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	114013	21.499	ug/L 98
12) 1,1-Dichloroethene	4.04	96	118226	22.652	ug/L 92
13) Acetone	4.12	43	53492	33.444	ug/L 98
14) Carbon disulfide	4.39	76	356717	23.886	ug/L 99
15) Methyl Acetate	4.67	43	62681	23.984	ug/L 97
16) Methylene chloride	4.92	84	123178	19.588	ug/L 98
17) Methyl tert-butyl Ether	5.43	73	158642	21.968	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	126018	21.842	ug/L 94
19) 1,1-Dichloroethane	6.21	63	210642	21.569	ug/L 97
21) 2-Butanone	7.17	43	87142	42.910	ug/L 100
22) cis-1,2-Dichloroethene	7.17	96	133083	21.490	ug/L 96

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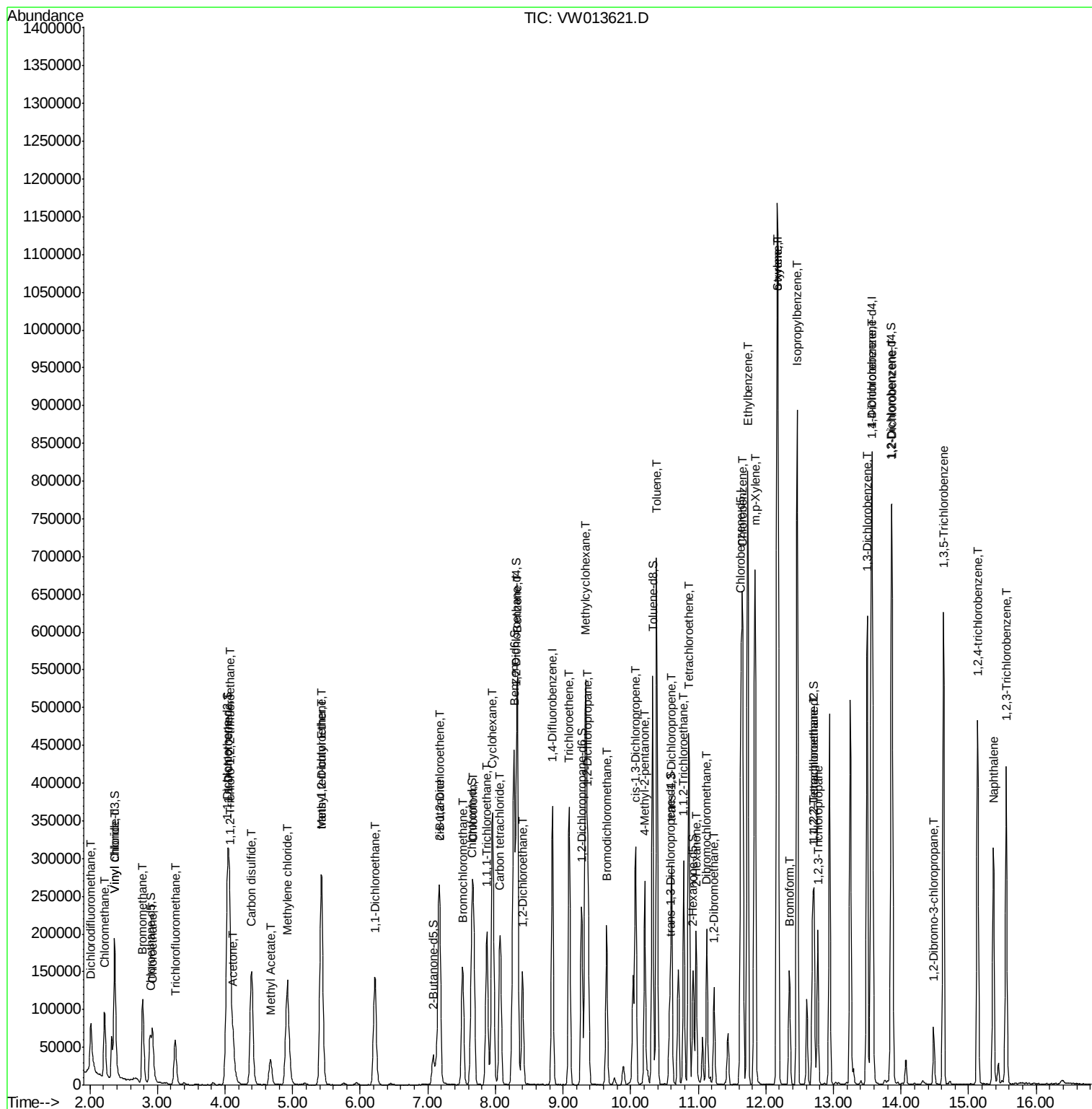
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	60927	21.767	ug/L	94
25) Chloroform	7.68	83	209486	21.354	ug/L	100
27) 1,2-Dichloroethane	8.40	62	136061	21.640	ug/L	99
30) Cyclohexane	7.96	56	213288	23.008	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	165535	22.429	ug/L	99
32) Carbon tetrachloride	8.07	117	163919	22.809	ug/L	99
34) Benzene	8.32	78	493953	21.756	ug/L	100
35) Trichloroethene	9.09	95	129099	22.162	ug/L	99
36) Methylcyclohexane	9.34	83	232124	22.608	ug/L	99
40) 1,2-Dichloropropane	9.37	63	122363	22.042	ug/L	100
41) Bromodichloromethane	9.65	83	147886	21.741	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	188301	21.484	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	175873	46.435	ug/L	99
44) Toluene	10.39	91	535755	21.963	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	159158	22.496	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	94736	22.127	ug/L	98
47) Tetrachloroethene	10.86	164	116642	21.875	ug/L	98
49) 2-Hexanone	10.97	43	125416	46.675	ug/L	99
50) Dibromochloromethane	11.13	129	111160	21.999	ug/L	95
51) 1,2-Dibromoethane	11.23	107	94180	22.621	ug/L	99
52) Chlorobenzene	11.66	112	339471	21.751	ug/L	99
53) Ethylbenzene	11.73	91	591356	21.941	ug/L	100
54) m,p-Xylene	11.84	106	229887	22.072	ug/L	97
55) o-xylene	12.16	106	219601	22.219	ug/L	99
56) Styrene	12.18	104	378286	22.374	ug/L	99
57) Isopropylbenzene	12.46	105	589894	22.251	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	117072	23.330	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	87023	23.255	ug/L	98
62) Bromoform	12.35	173	71389	21.947	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	273917	21.269	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	273527	21.136	ug/L	94
65) 1,2-Dichlorobenzene	13.87	146	251324	21.538	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	19307	24.072	ug/L	95
67) 1,3,5-Trichlorobenzene	14.63	180	210983	22.037	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	172974	21.281	ug/L	99
69) Naphthalene	15.36	128	279363	18.968	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	158648	21.795	ug/L	99

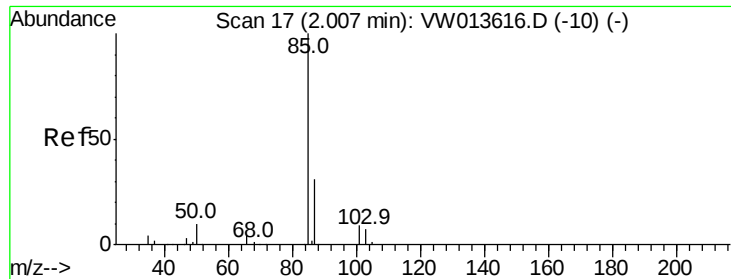
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 30.145 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

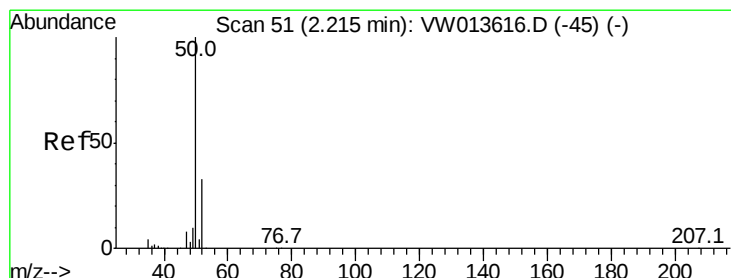
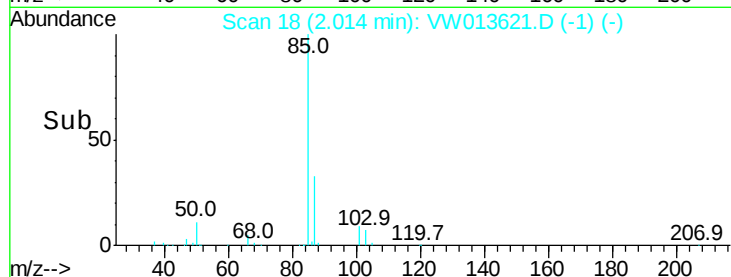
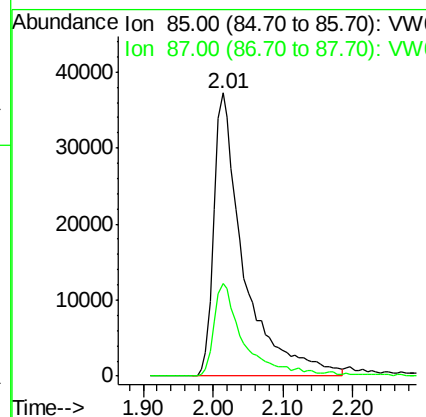
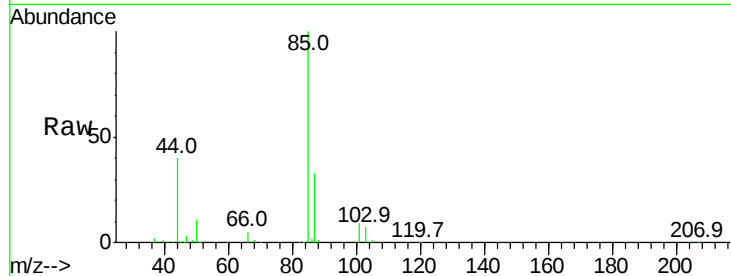
VSTD02522

Tgt Ion: 85 Resp: 111349

Ion Ratio Lower Upper

85 100

87 30.5 20.2 37.4



#3

Chloromethane

Concen: 24.799 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW013621.D

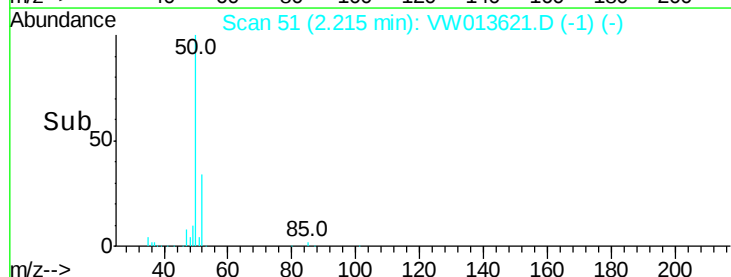
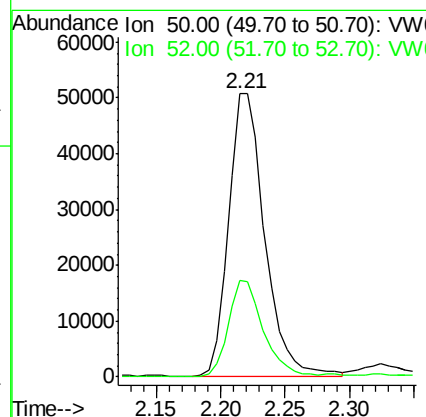
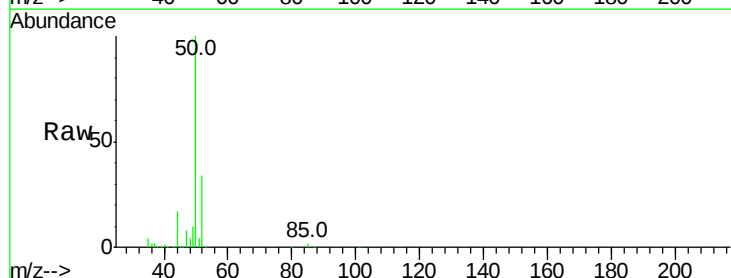
Acq: 18 Oct 2019 13:42

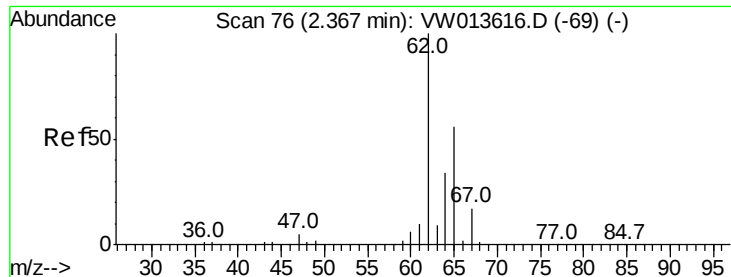
Tgt Ion: 50 Resp: 99157

Ion Ratio Lower Upper

50 100

52 34.0 23.3 43.3





#5

Vinyl chloride

Concen: 29.265 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

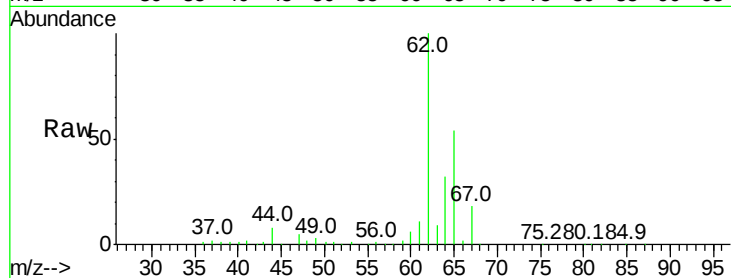
VSTD02522

Tgt Ion: 62 Resp: 146233

Ion Ratio Lower Upper

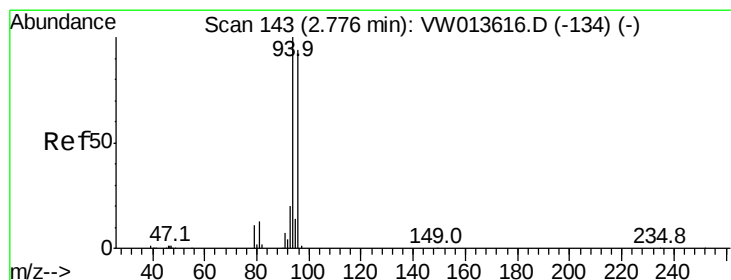
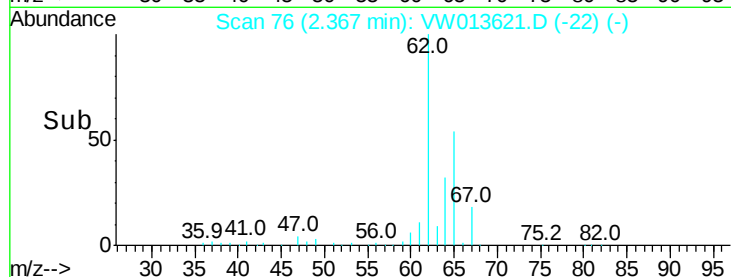
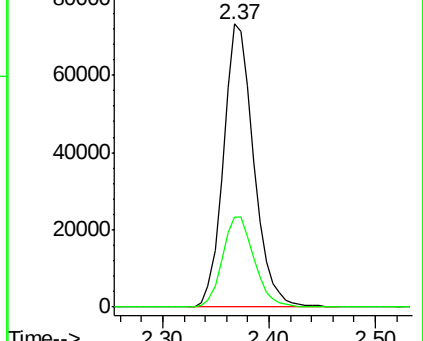
62 100

64 31.9 23.9 44.5



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 23.927 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW013621.D

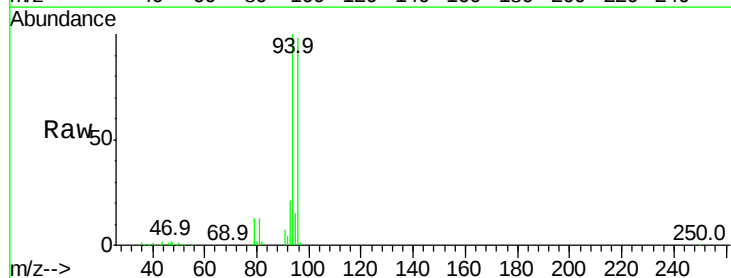
Acq: 18 Oct 2019 13:42

Tgt Ion: 94 Resp: 86391

Ion Ratio Lower Upper

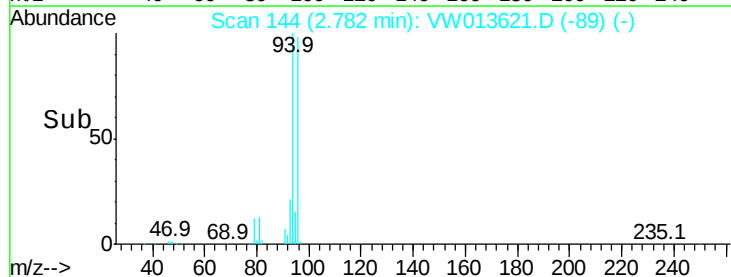
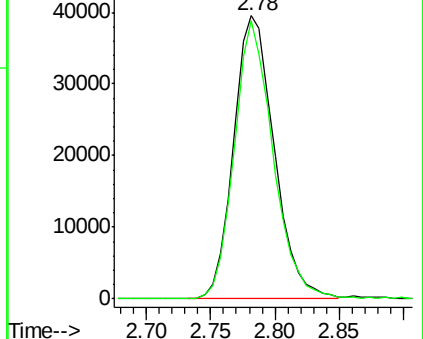
94 100

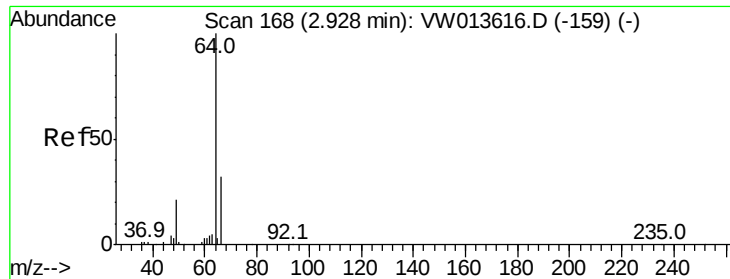
96 93.9 9.3 176.9



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW

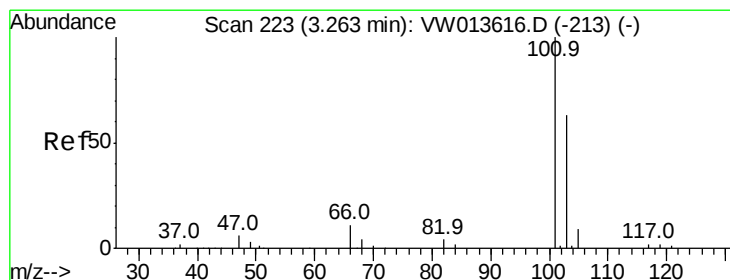
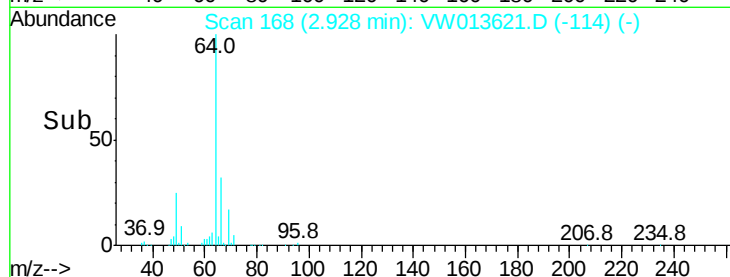
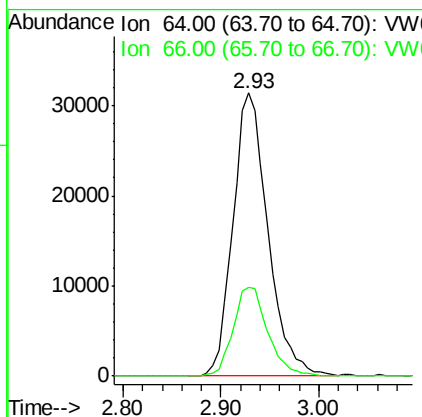
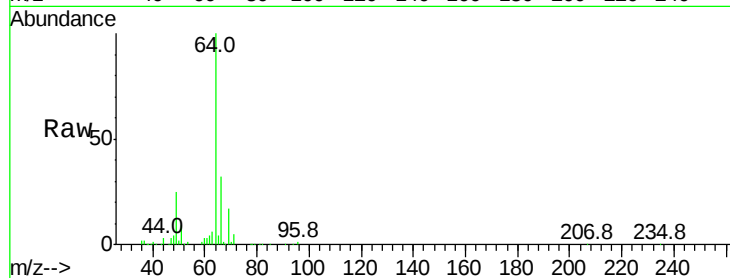




#8
Chloroethane
Concen: 23.062 ug/L
RT: 2.93 min Scan# 168
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

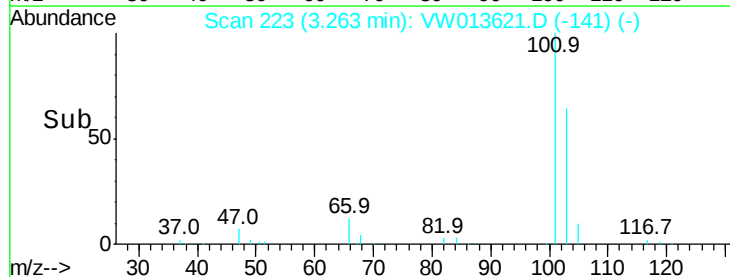
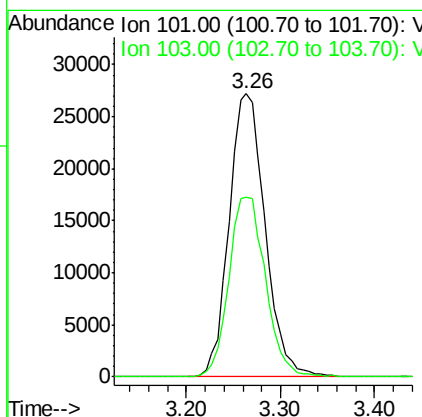
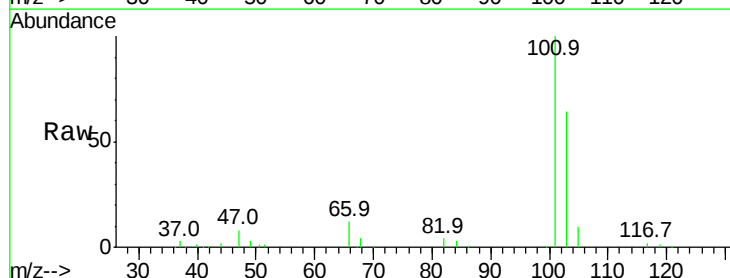
Instrument :
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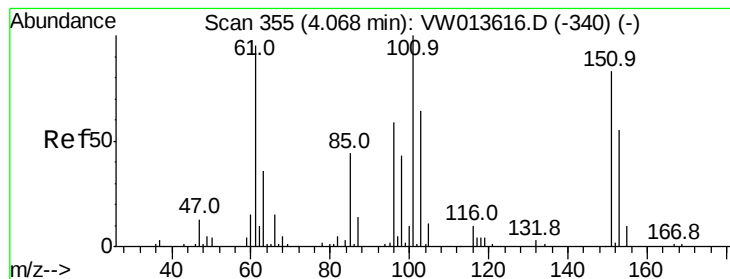
Tgt Ion: 64 Resp: 77875
Ion Ratio Lower Upper
64 100
66 31.5 22.2 41.2



#9
Trichlorofluoromethane
Concen: 21.500 ug/L
RT: 3.26 min Scan# 223
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

Tgt Ion: 101 Resp: 72409
Ion Ratio Lower Upper
101 100
103 64.5 46.5 86.5





#11

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

Concen: 21.499 ug/L

RT: 4.07 min Scan# 356

Delta R.T. 0.01 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

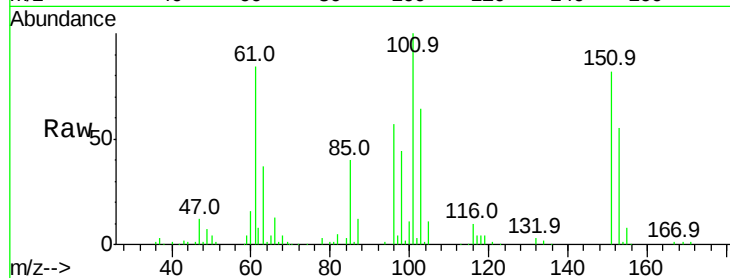
Tgt Ion: 101 Resp: 114013

Ion Ratio Lower Upper

101 100

85 40.7 32.0 48.0

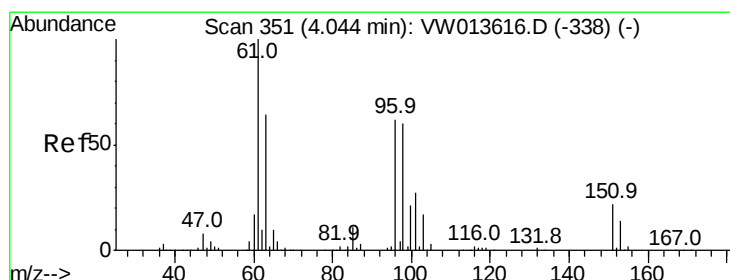
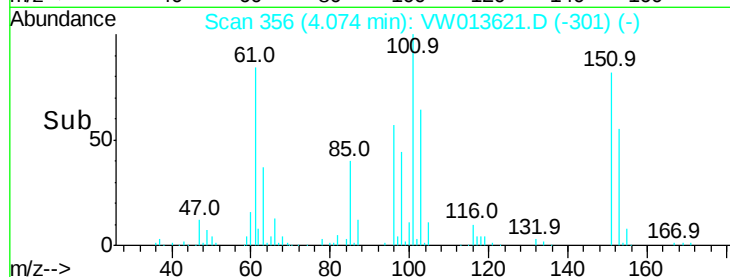
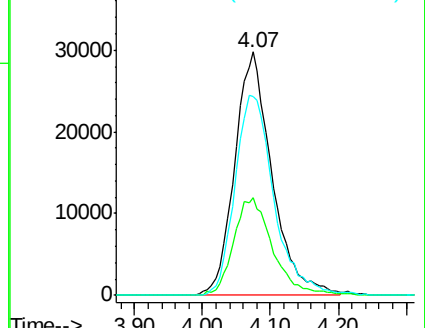
151 85.3 66.9 100.3



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: 22.652 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

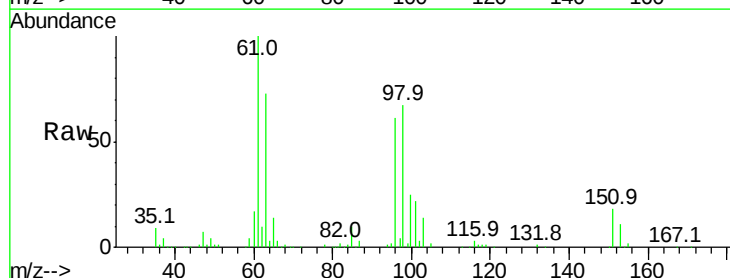
Tgt Ion: 96 Resp: 118226

Ion Ratio Lower Upper

96 100

61 164.7 112.7 209.3

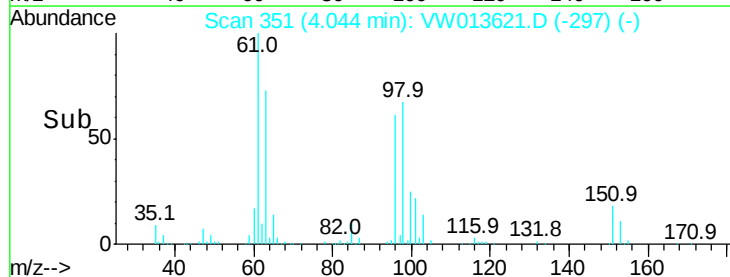
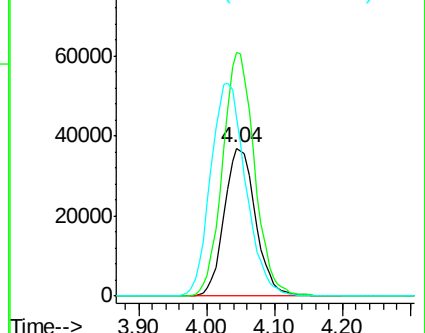
63 120.9 72.8 135.2

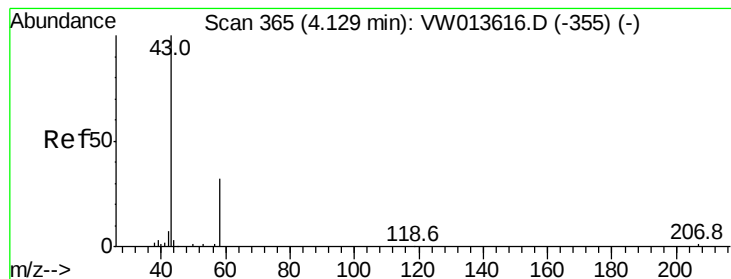


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 33.444 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

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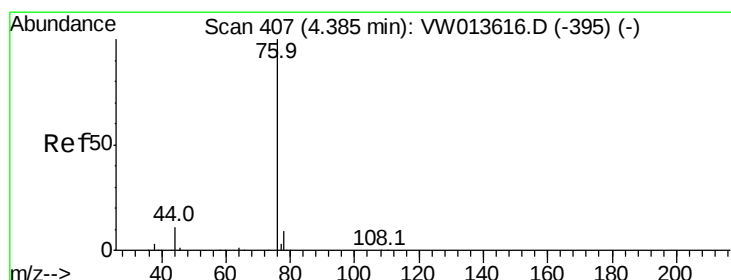
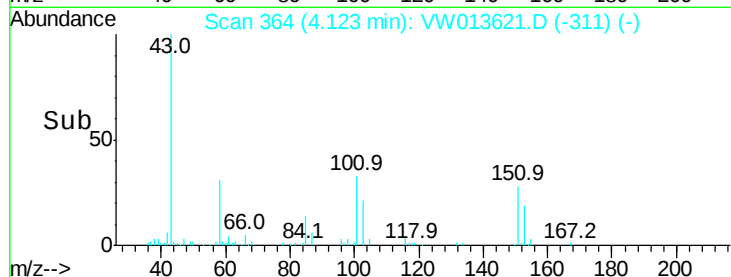
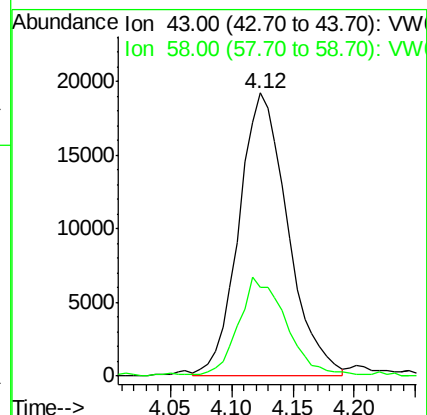
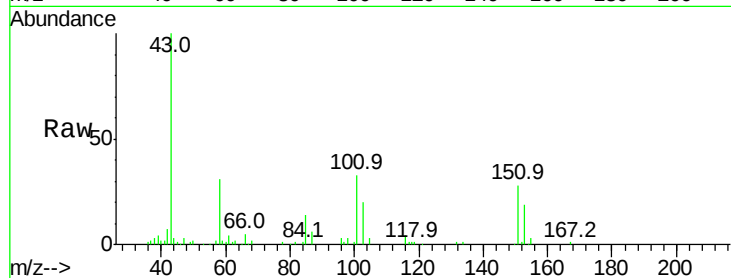
VSTD02522

Tgt Ion: 43 Resp: 53492

Ion Ratio Lower Upper

43 100

58 34.0 0.0 70.4



#14

Carbon disulfide

Concen: 23.886 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013621.D

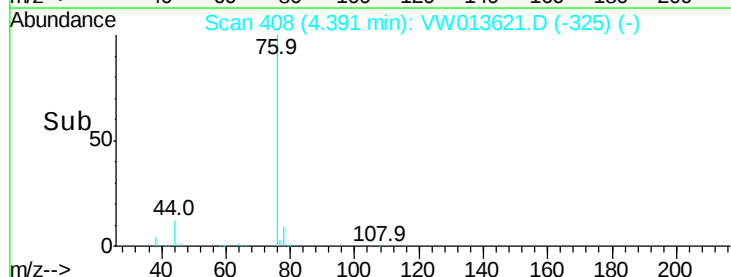
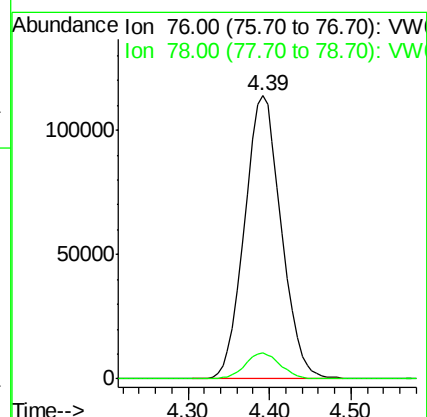
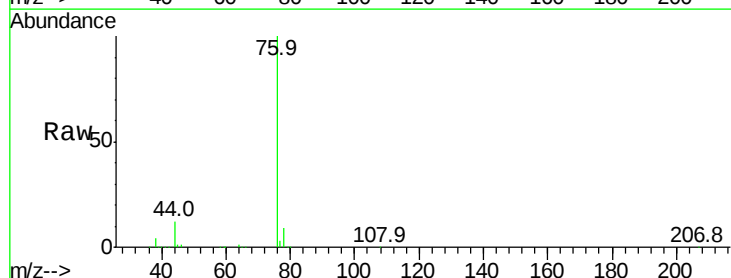
Acq: 18 Oct 2019 13:42

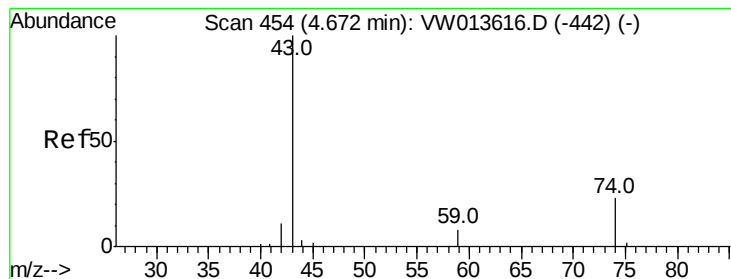
Tgt Ion: 76 Resp: 356717

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7





#15

Methyl Acetate

Concen: 23.984 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

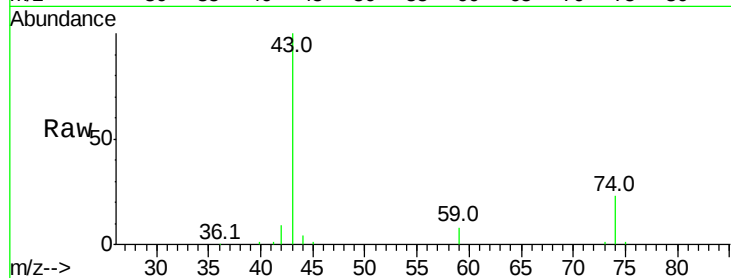
VSTD02522

Tgt Ion: 43 Resp: 62681

Ion Ratio Lower Upper

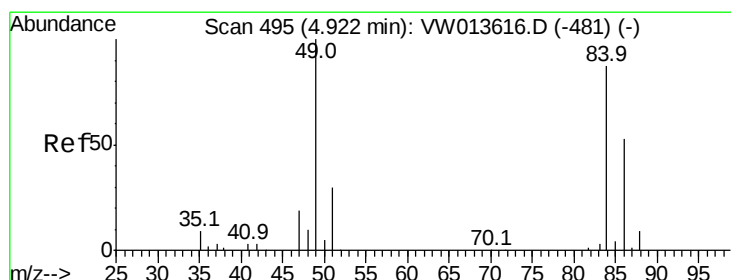
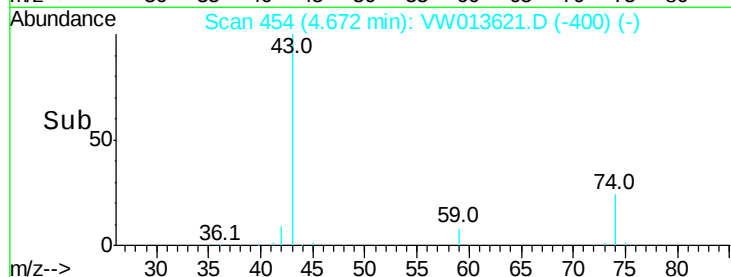
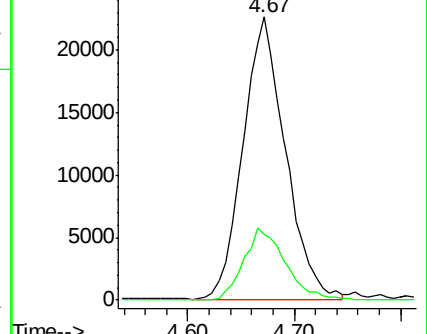
43 100

74 25.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 19.588 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

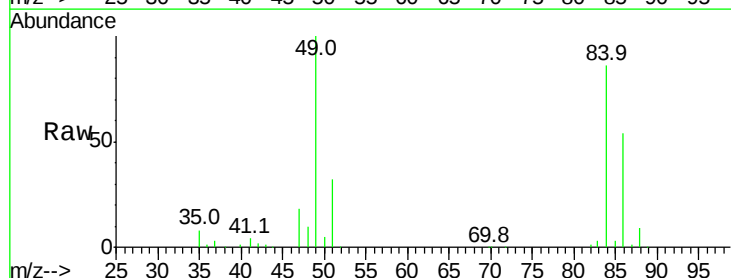
Tgt Ion: 84 Resp: 123178

Ion Ratio Lower Upper

84 100

49 116.1 80.2 148.9

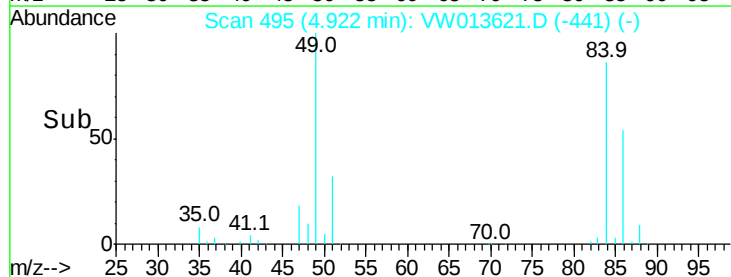
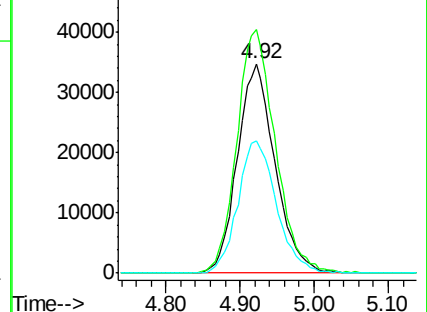
86 62.8 42.7 79.3

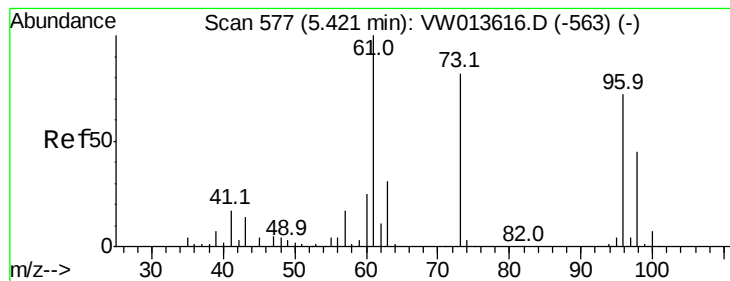


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW





#17

Methyl tert-butyl Ether

Concen: 21.968 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

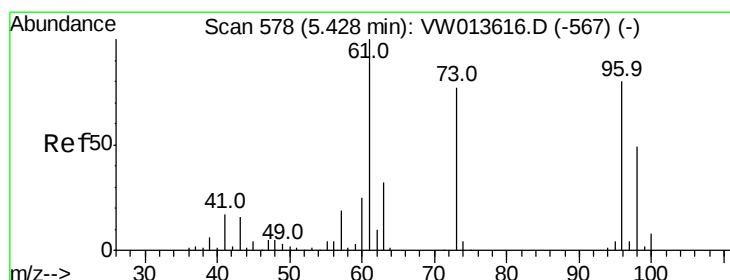
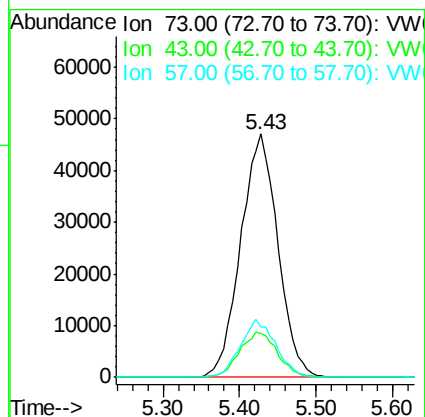
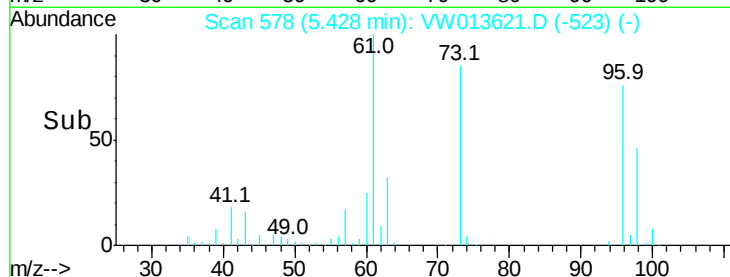
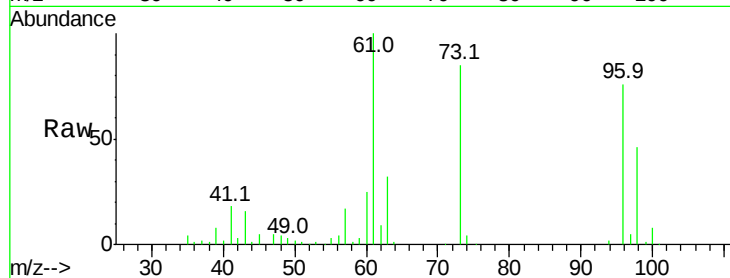
Tgt Ion: 73 Resp: 158642

Ion Ratio Lower Upper

73 100

43 19.1 15.4 23.2

57 22.8 17.7 26.5



#18

trans-1,2-Dichloroethene

Concen: 21.842 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

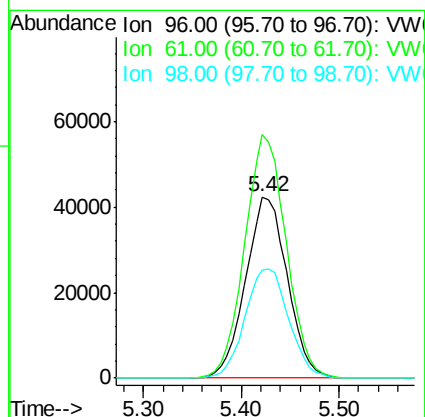
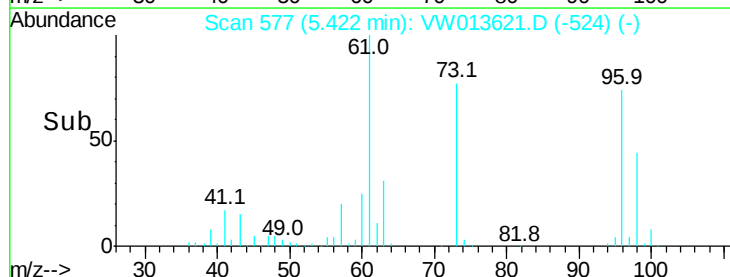
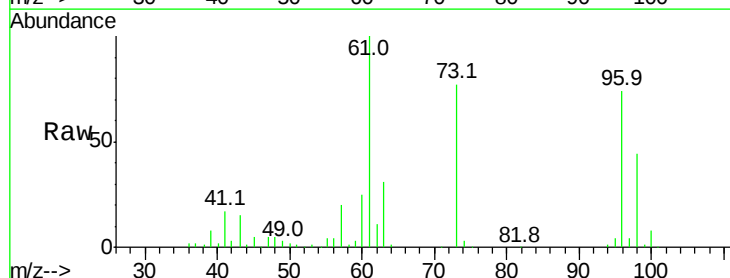
Tgt Ion: 96 Resp: 126018

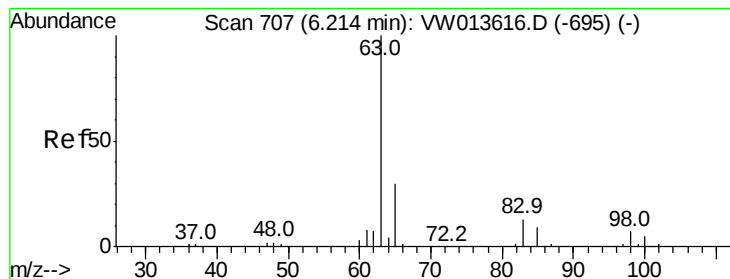
Ion Ratio Lower Upper

96 100

61 134.3 88.4 164.2

98 59.2 43.0 79.8





#19

1,1-Dichloroethane

Concen: 21.569 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

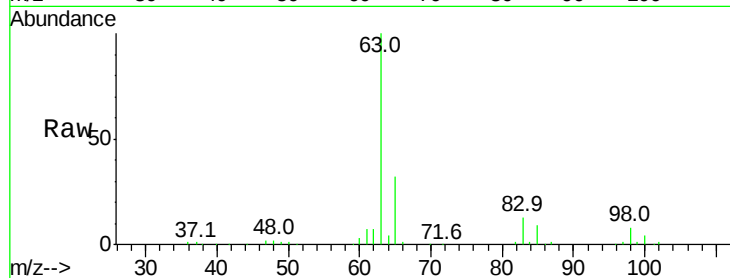
Tgt Ion: 63 Resp: 210642

Ion Ratio Lower Upper

63 100

65 32.2 20.9 38.7

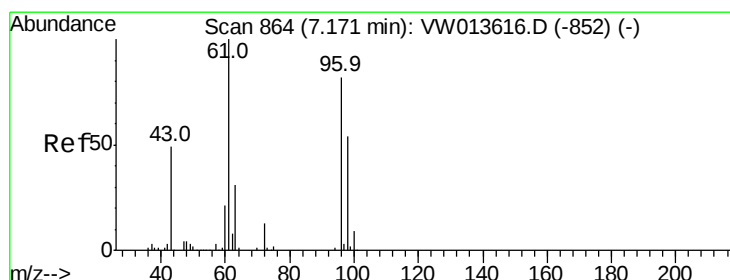
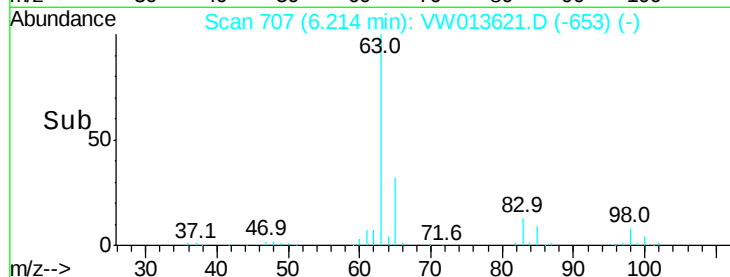
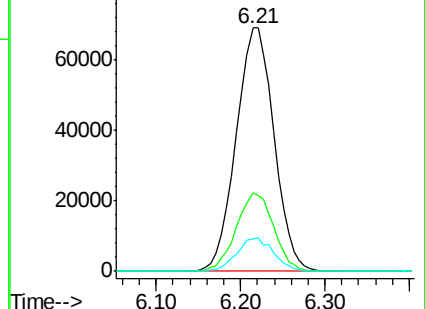
83 13.5 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 42.910 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW013621.D

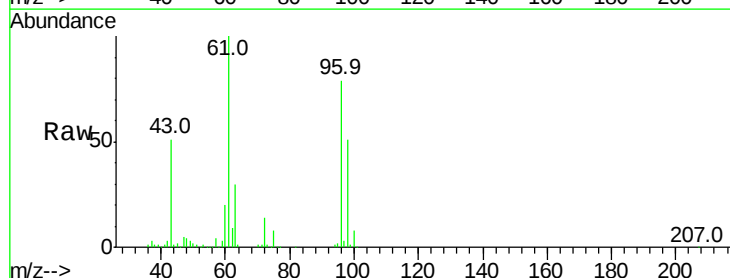
Acq: 18 Oct 2019 13:42

Tgt Ion: 43 Resp: 87142

Ion Ratio Lower Upper

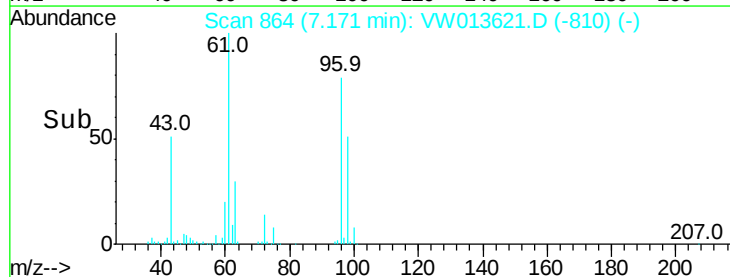
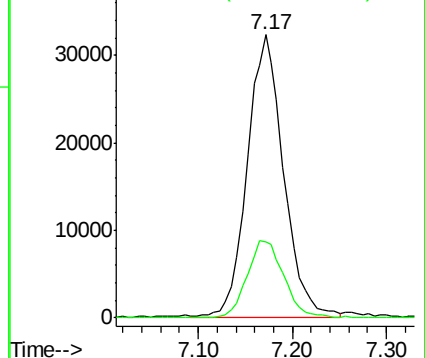
43 100

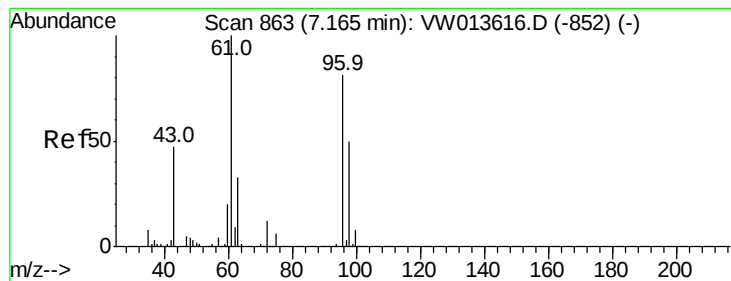
72 27.6 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



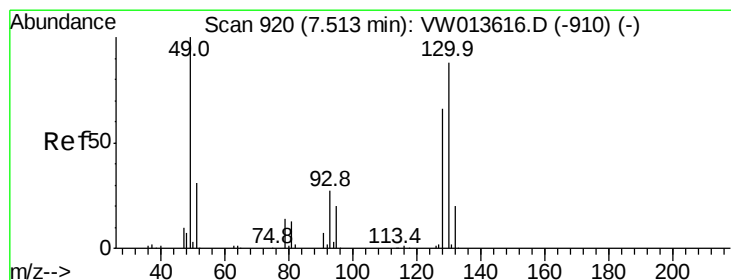
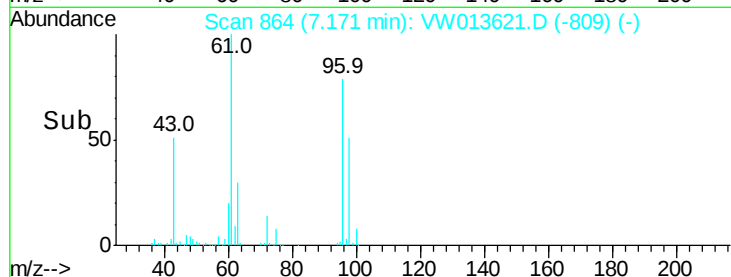
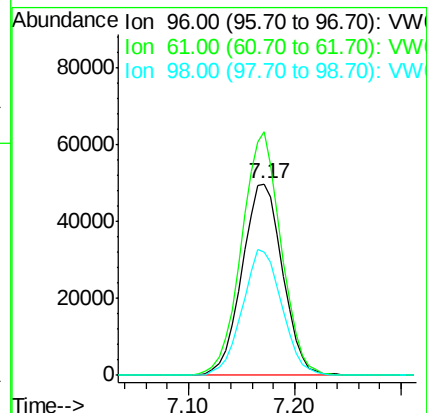
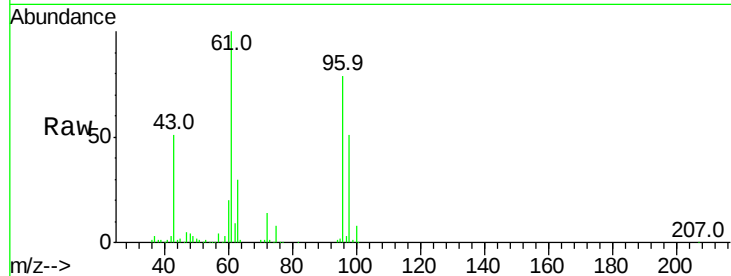


#22

cis-1,2-Dichloroethene
Concen: 21.490 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

Instrument :
MSVOA_W
ClientSampleId :
VSTD02522

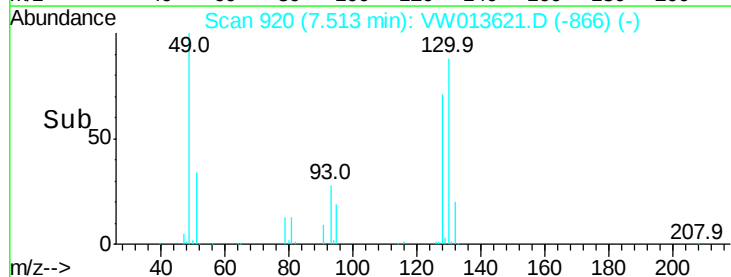
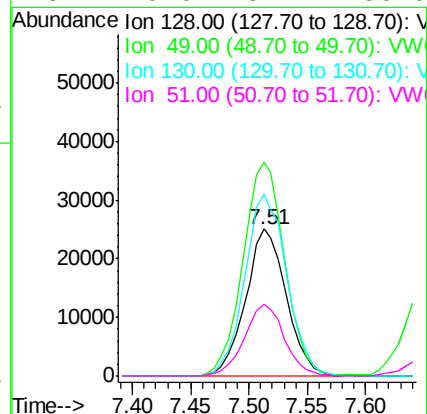
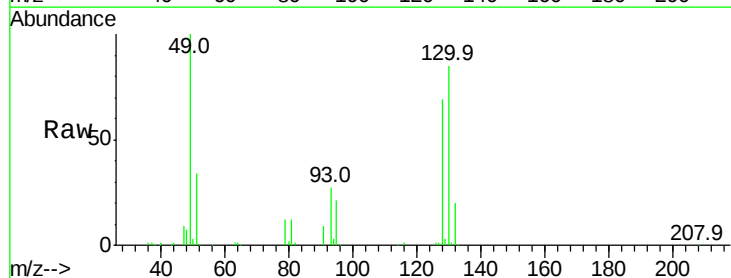
Tgt Ion: 96 Resp: 133083
Ion Ratio Lower Upper
96 100
61 127.2 86.2 160.0
98 64.5 43.0 79.8

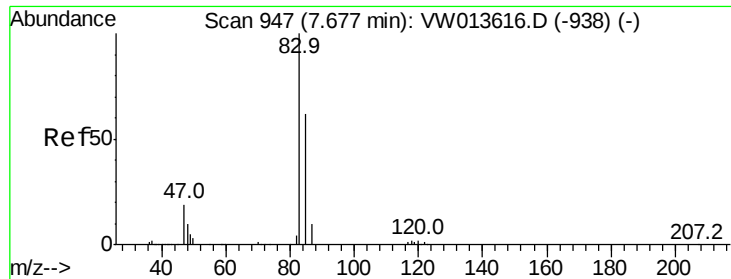


#23

Bromochloromethane
Concen: 21.767 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

Tgt Ion: 128 Resp: 60927
Ion Ratio Lower Upper
128 100
49 145.4 106.3 197.3
130 123.9 93.2 173.2
51 49.0 37.4 56.0





#25

Chloroform

Concen: 21.354 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

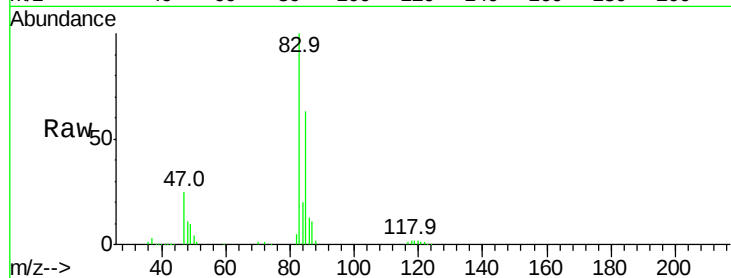
VSTD02522

Tgt Ion: 83 Resp: 209486

Ion Ratio Lower Upper

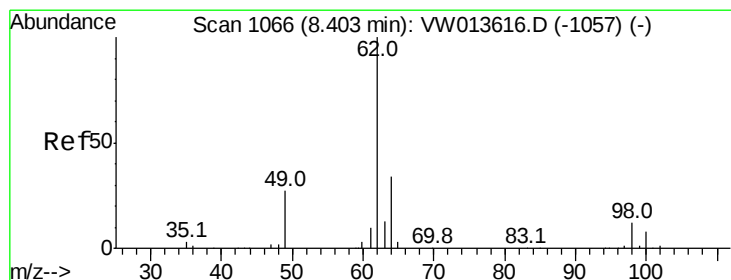
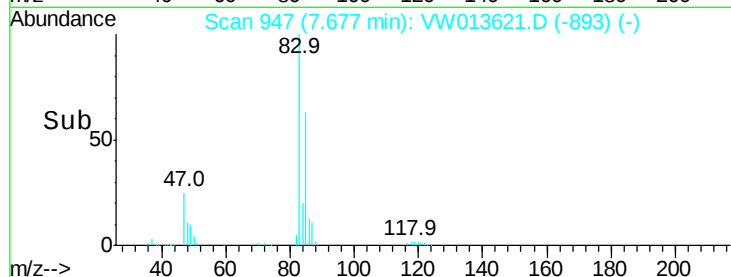
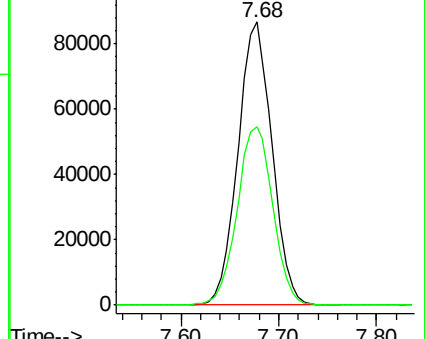
83 100

85 66.1 46.1 85.7



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 21.640 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW013621.D

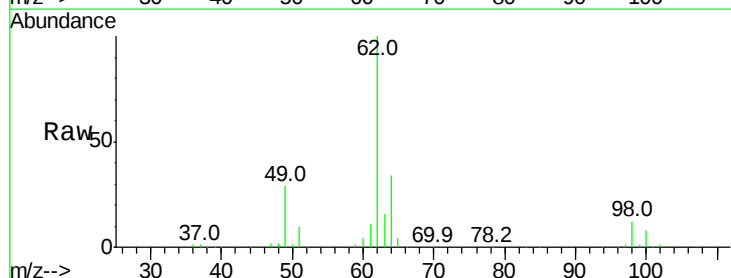
Acq: 18 Oct 2019 13:42

Tgt Ion: 62 Resp: 136061

Ion Ratio Lower Upper

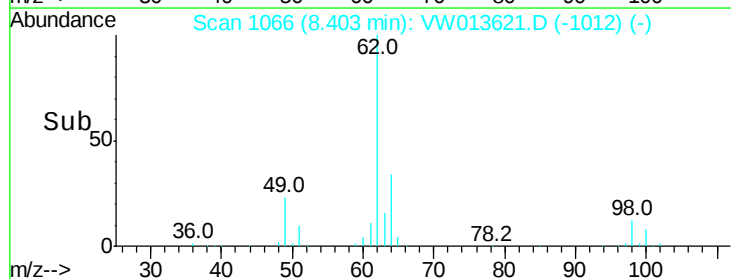
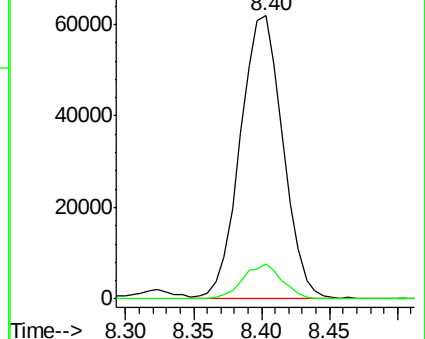
62 100

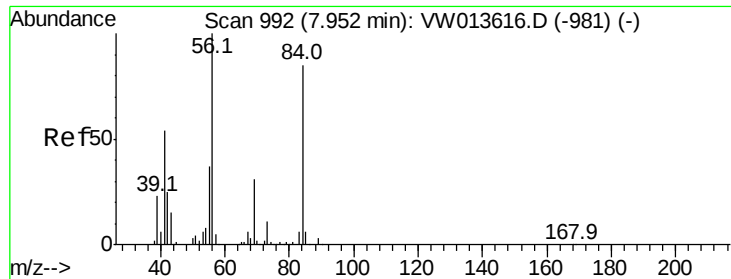
98 12.3 9.6 14.4



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

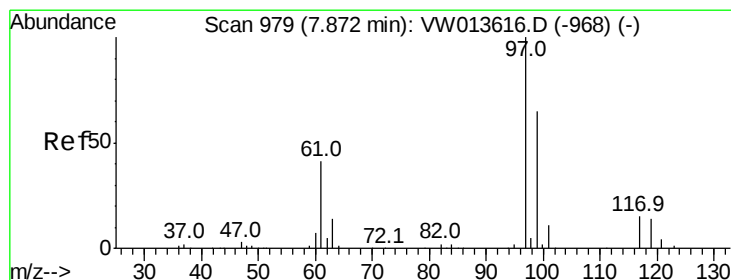
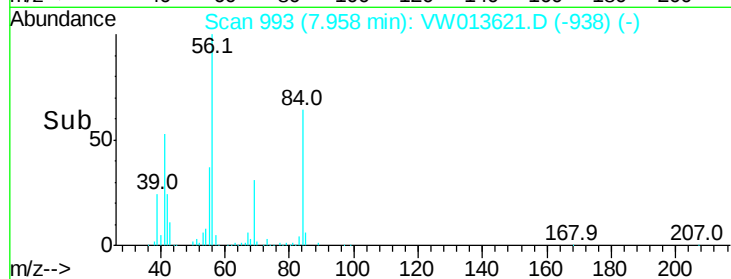
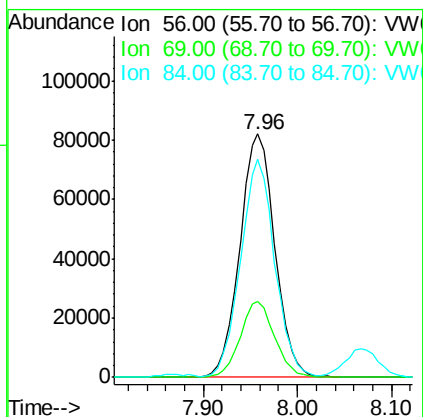
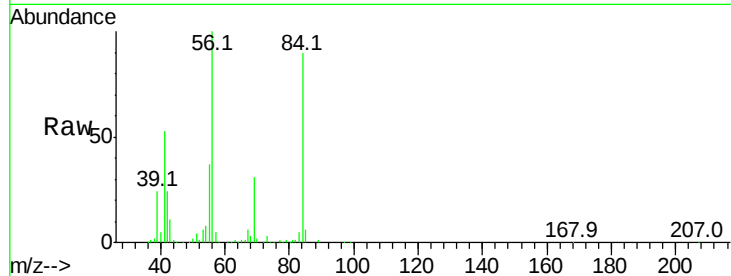




#30
Cyclohexane
Concen: 23.008 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

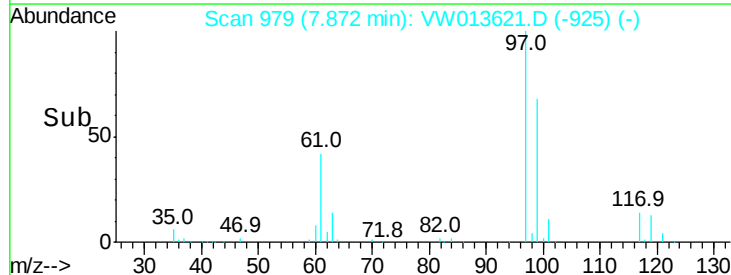
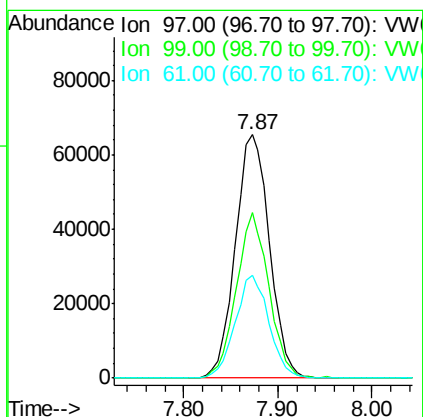
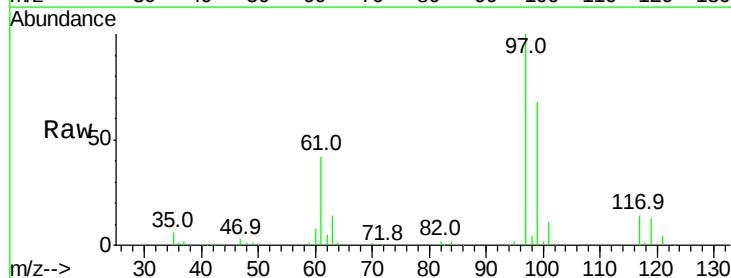
Instrument :
MSVOA_W
ClientSampleId :
VSTD02522

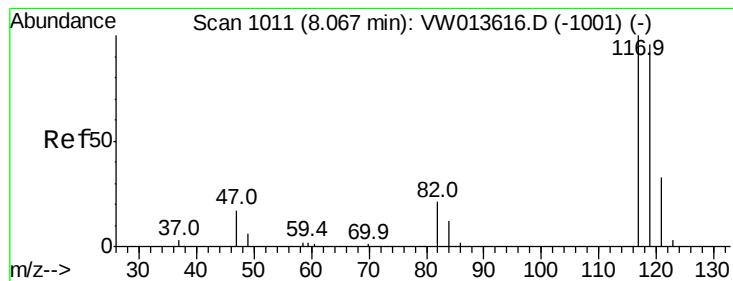
Tgt Ion: 56 Resp: 213288
Ion Ratio Lower Upper
56 100
69 30.7 24.6 37.0
84 88.0 71.1 106.7



#31
1,1,1-Trichloroethane
Concen: 22.429 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

Tgt Ion: 97 Resp: 165535
Ion Ratio Lower Upper
97 100
99 64.6 51.7 77.5
61 41.4 33.8 50.8





#32

Carbon tetrachloride

Concen: 22.809 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

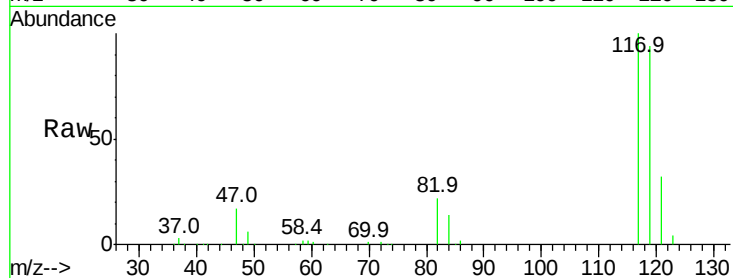
VSTD02522

Tgt Ion:117 Resp: 163919

Ion Ratio Lower Upper

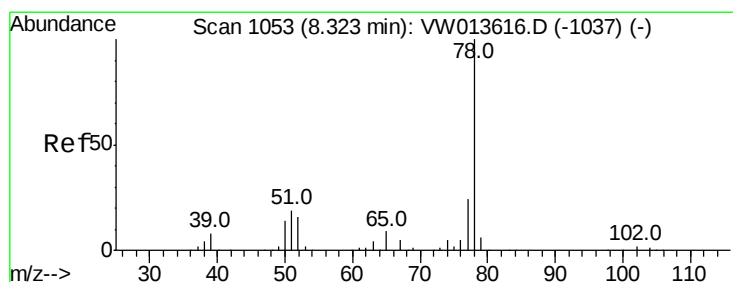
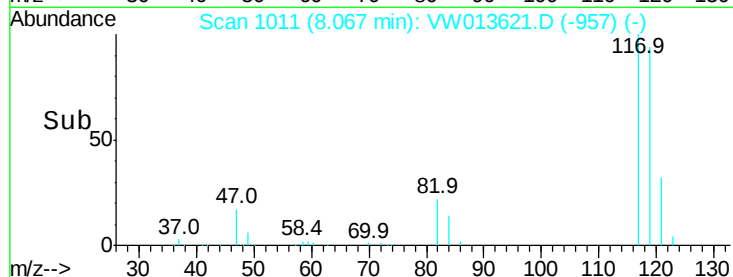
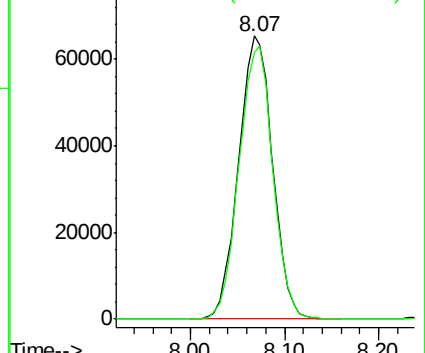
117 100

119 96.0 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 21.756 ug/L

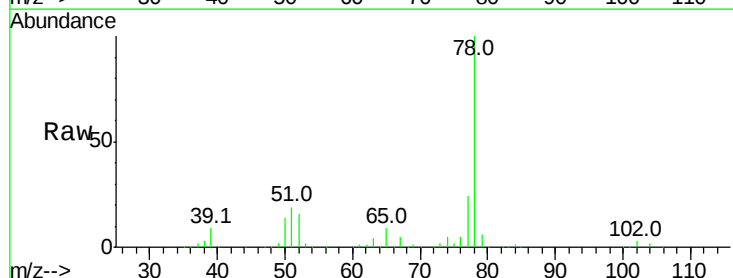
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

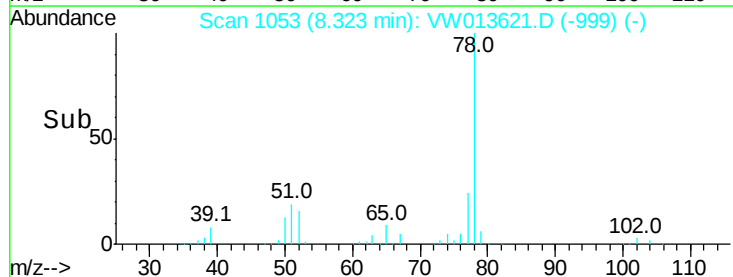
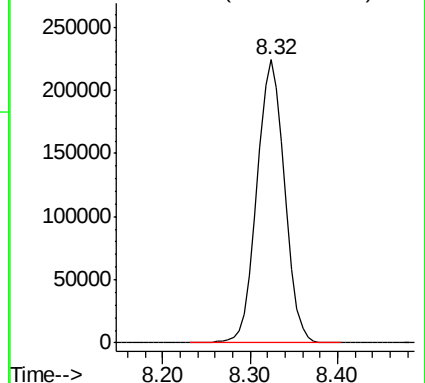
Lab File: VW013621.D

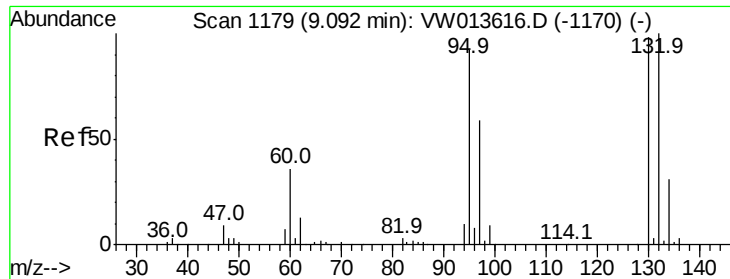
Acq: 18 Oct 2019 13:42

Tgt Ion: 78 Resp: 493953



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 22.162 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampled :

VSTD02522

Tgt Ion: 95 Resp: 129099

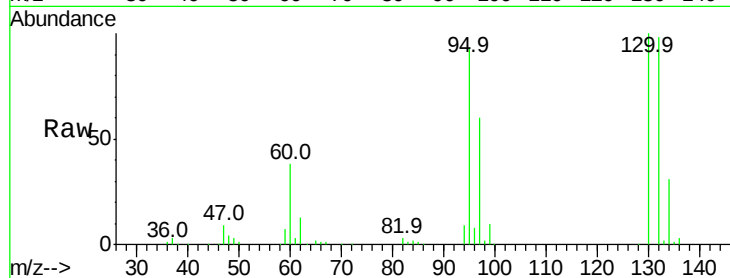
Ion Ratio Lower Upper

95 100

97 66.1 45.8 85.2

132 104.7 74.3 138.1

130 109.0 76.6 142.3

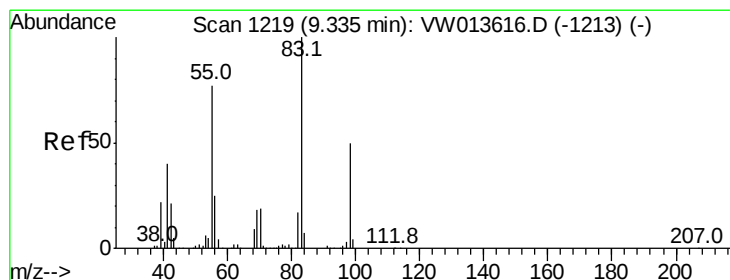
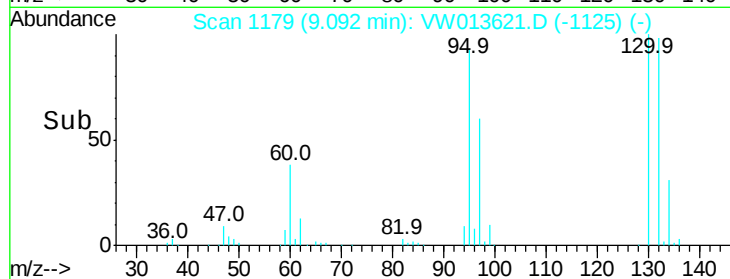
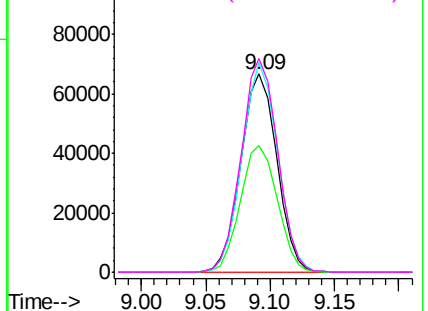


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 22.608 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

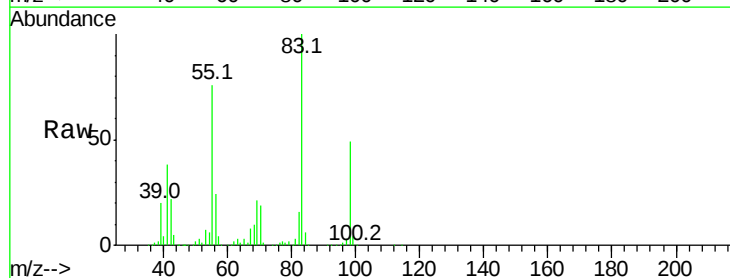
Tgt Ion: 83 Resp: 232124

Ion Ratio Lower Upper

83 100

55 75.1 60.2 90.4

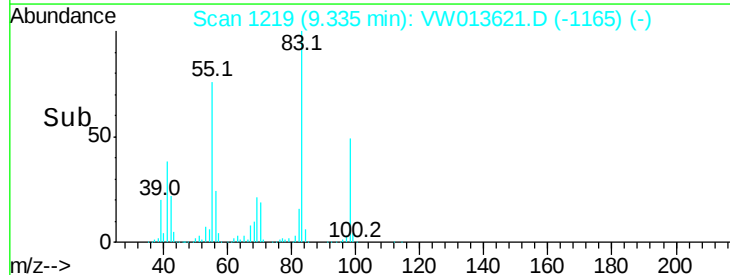
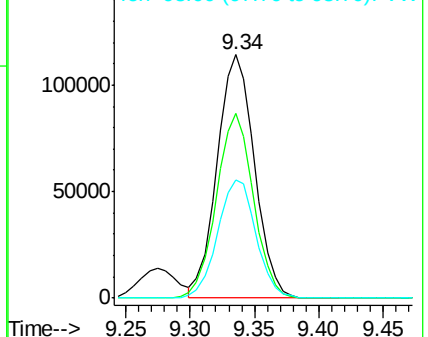
98 49.8 39.1 58.7

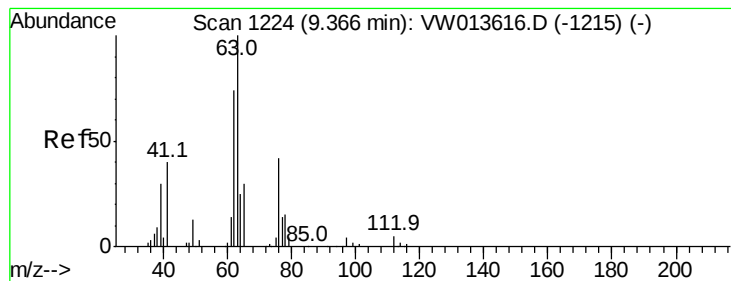


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 22.042 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

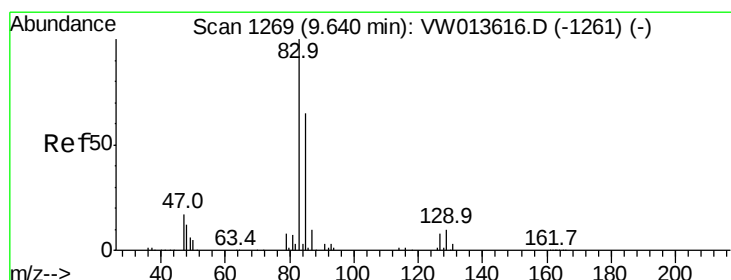
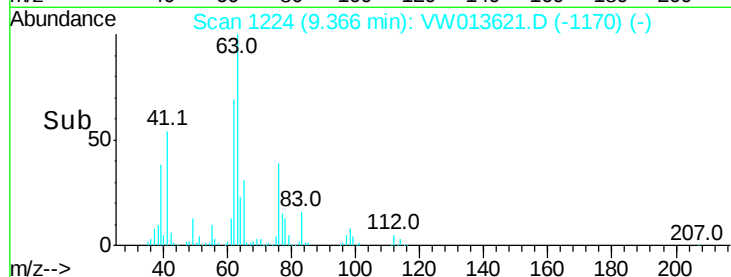
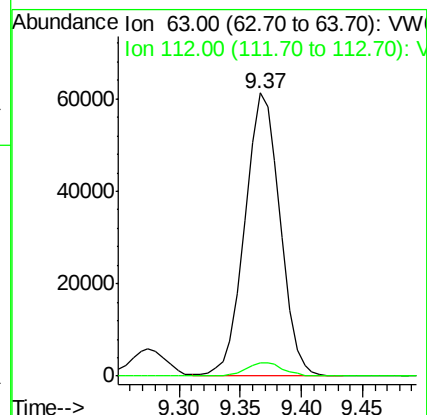
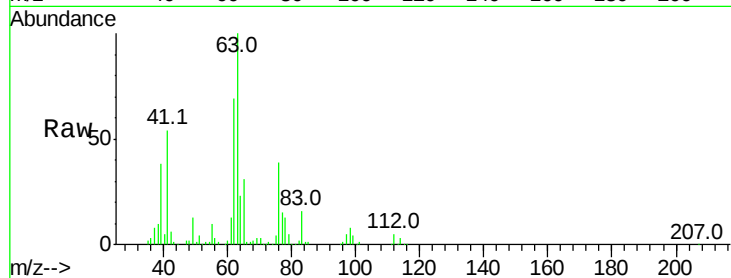
VSTD02522

Tgt Ion: 63 Resp: 122363

Ion Ratio Lower Upper

63 100

112 5.0 3.9 5.9



#41

Bromodichloromethane

Concen: 21.741 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

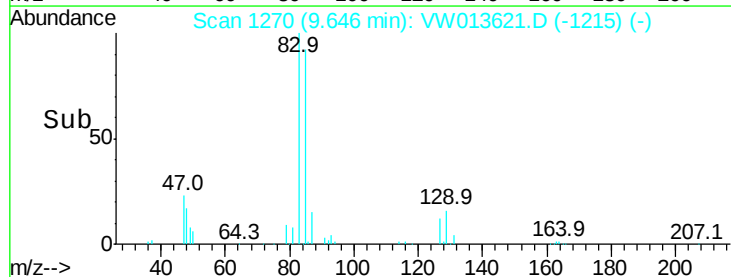
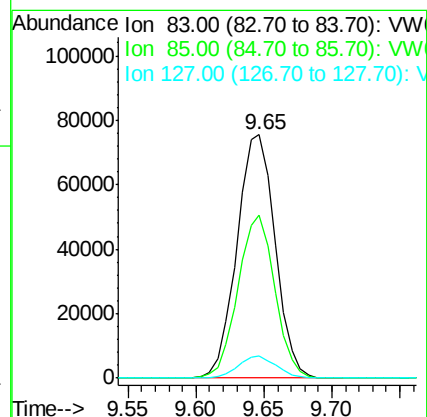
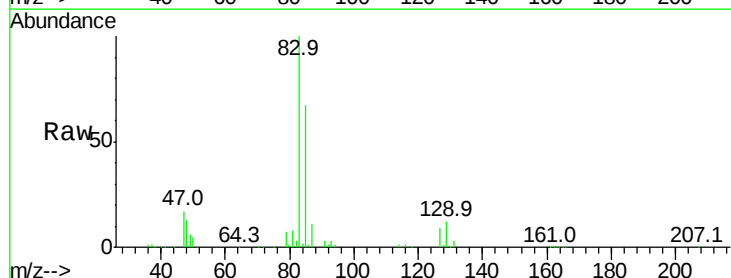
Tgt Ion: 83 Resp: 147886

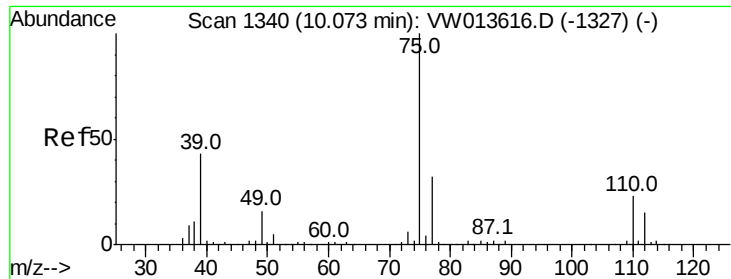
Ion Ratio Lower Upper

83 100

85 66.7 45.8 85.0

127 8.9 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 21.484 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

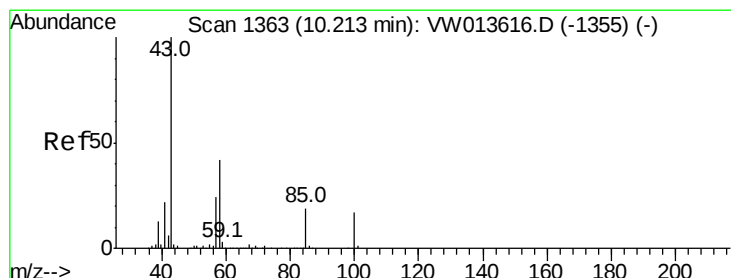
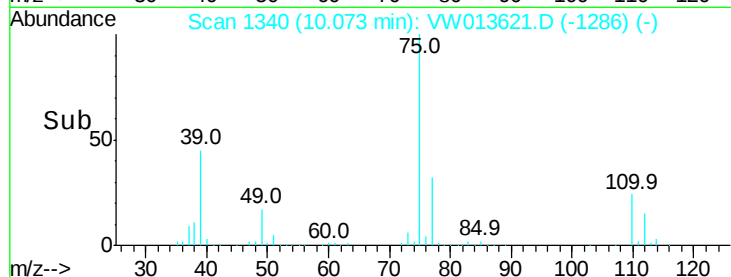
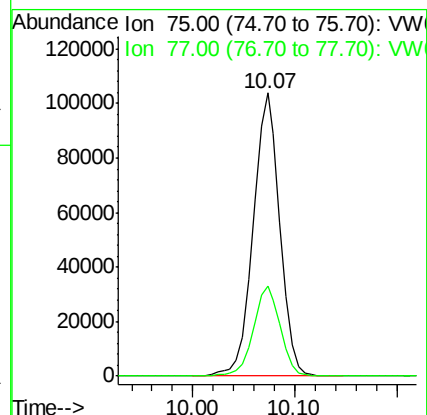
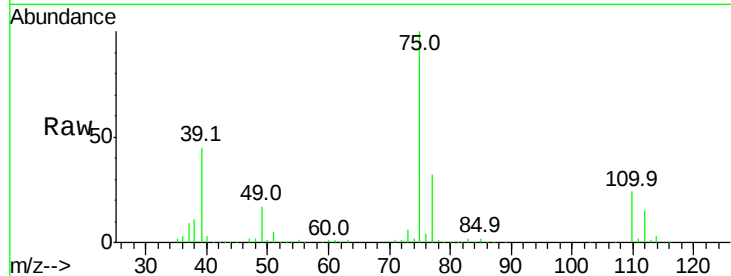
VSTD02522

Tgt Ion: 75 Resp: 188301

Ion Ratio Lower Upper

75 100

77 32.0 22.5 41.9



#43

4-Methyl-2-pentanone

Concen: 46.435 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

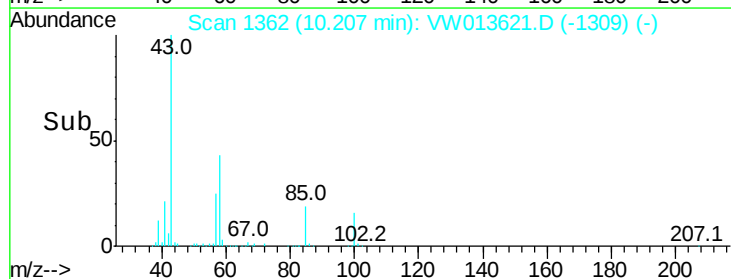
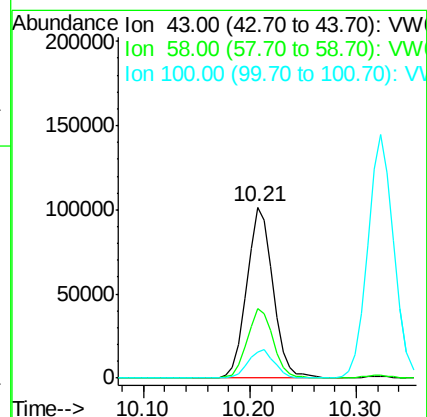
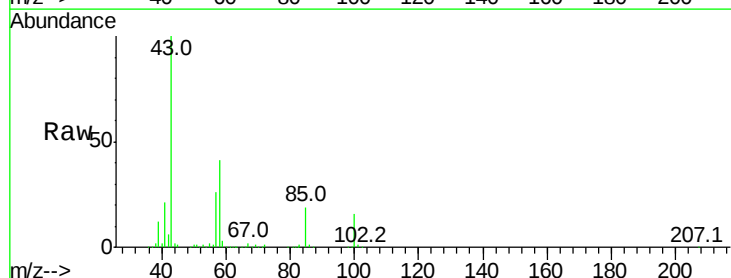
Tgt Ion: 43 Resp: 175873

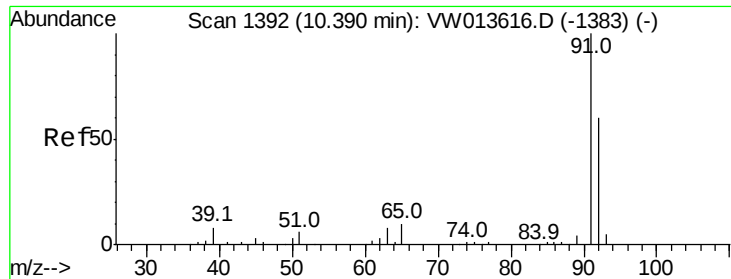
Ion Ratio Lower Upper

43 100

58 40.7 32.8 49.2

100 16.8 13.7 20.5





#44

Toluene

Concen: 21.963 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

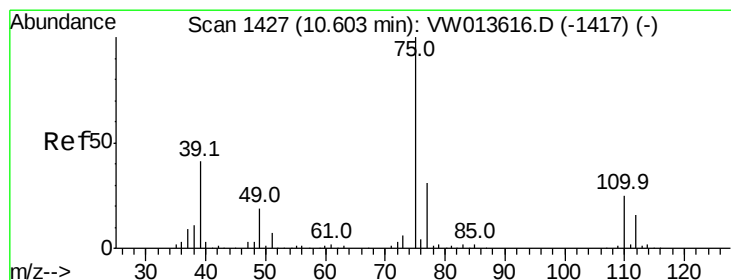
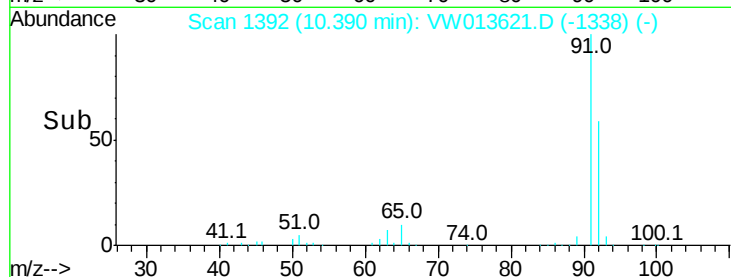
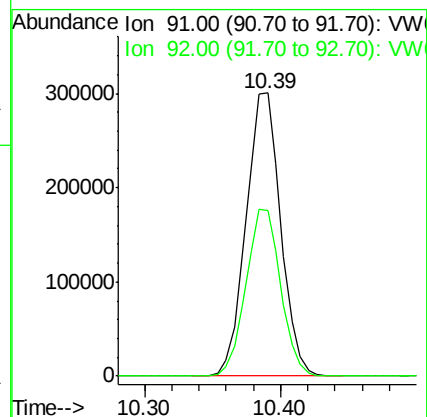
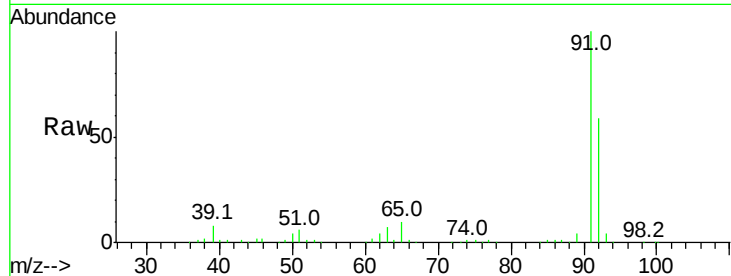
VSTD02522

Tgt Ion: 91 Resp: 535755

Ion Ratio Lower Upper

91 100

92 58.5 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 22.496 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013621.D

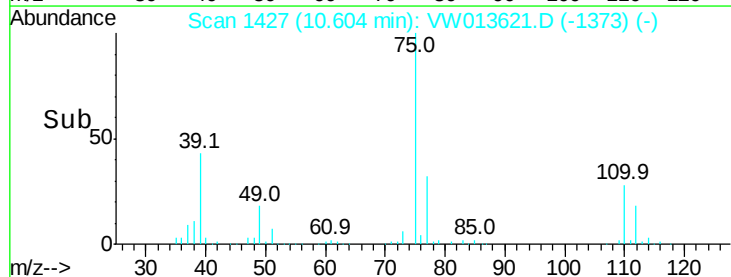
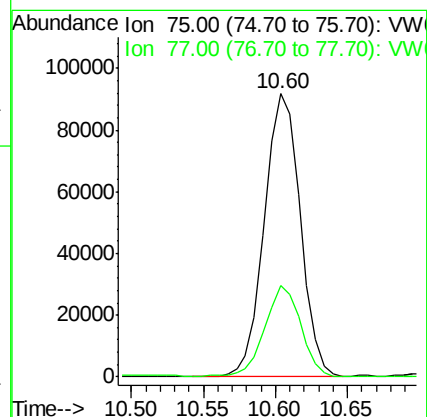
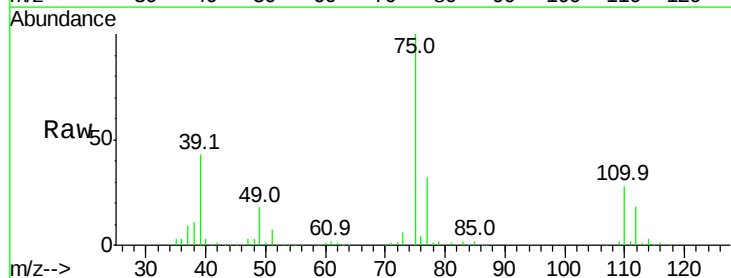
Acq: 18 Oct 2019 13:42

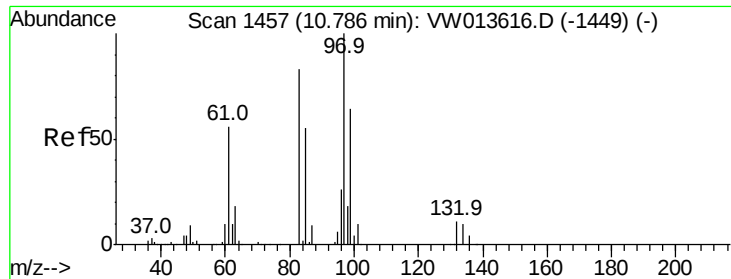
Tgt Ion: 75 Resp: 159158

Ion Ratio Lower Upper

75 100

77 32.4 22.0 41.0

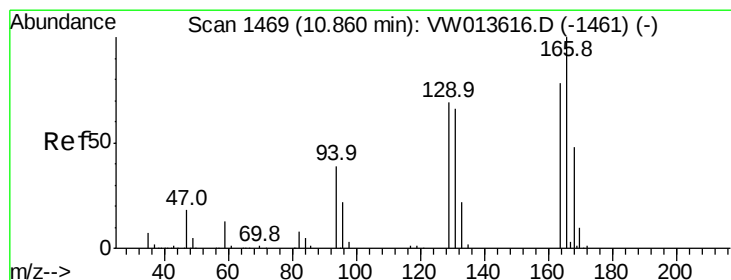
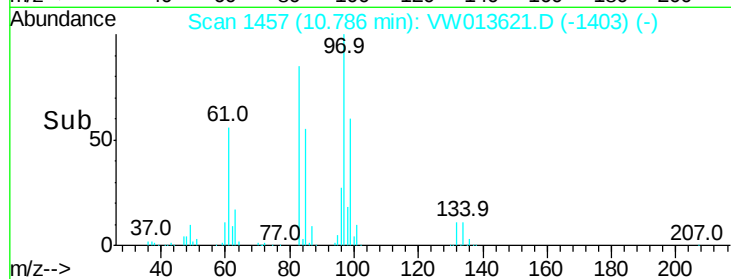
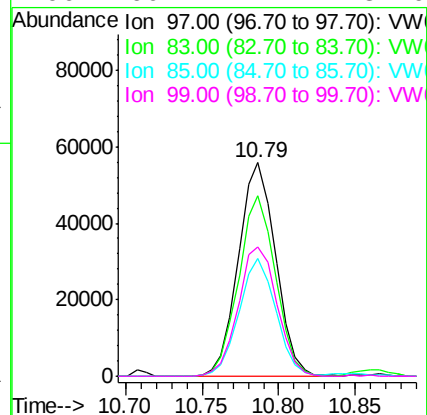
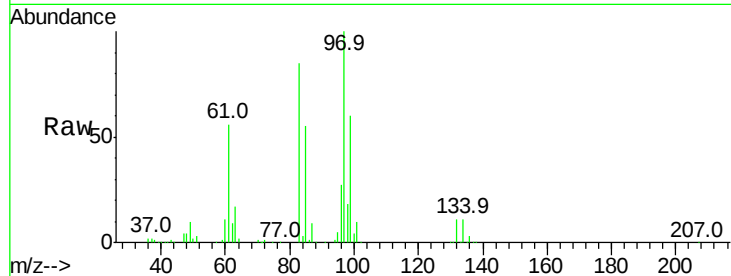




#46
 1,1,2-Trichloroethane
 Concen: 22.127 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013621.D
 Acq: 18 Oct 2019 13:42

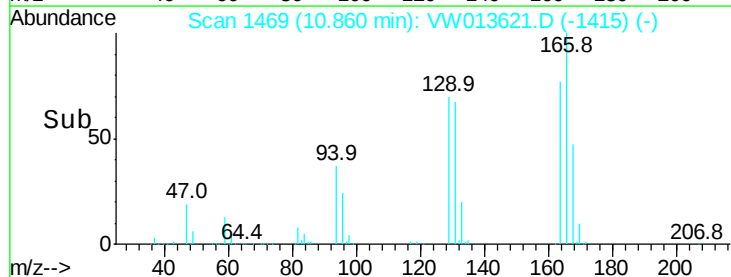
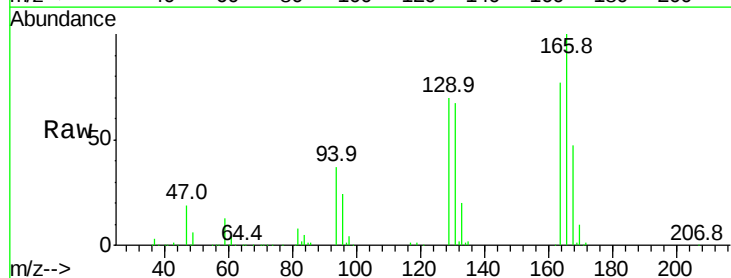
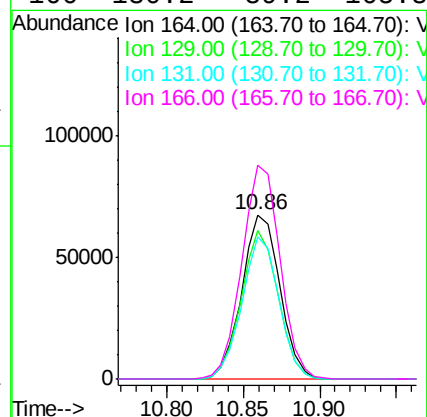
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02522

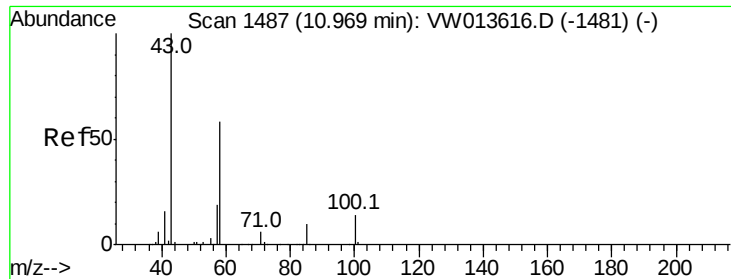
Tgt Ion: 97 Resp: 94736
 Ion Ratio Lower Upper
 97 100
 83 84.5 57.7 107.3
 85 54.8 38.6 71.6
 99 60.2 44.7 82.9



#47
 Tetrachloroethene
 Concen: 21.875 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW013621.D
 Acq: 18 Oct 2019 13:42

Tgt Ion: 164 Resp: 116642
 Ion Ratio Lower Upper
 164 100
 129 90.7 61.8 114.8
 131 87.0 59.2 110.0
 166 130.2 89.2 165.8

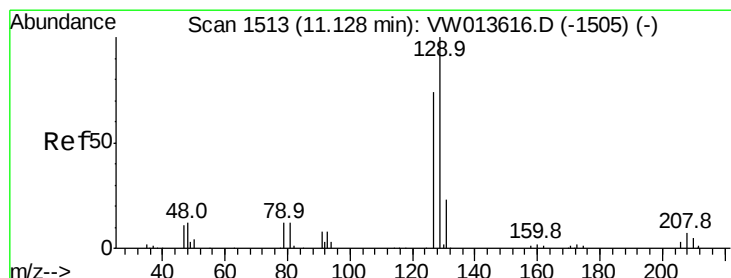
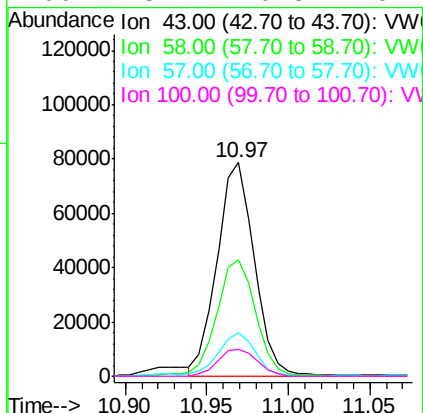
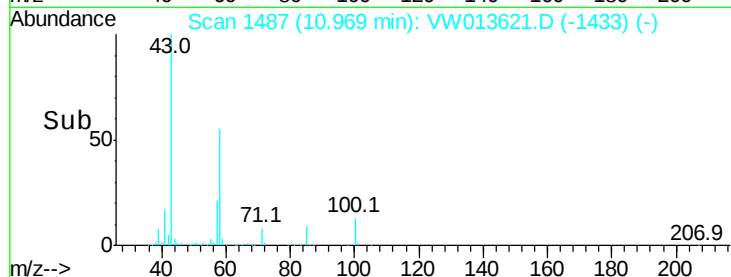
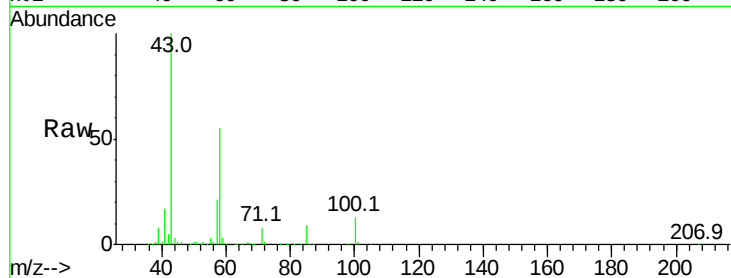




#49
2-Hexanone
Concen: 46.675 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

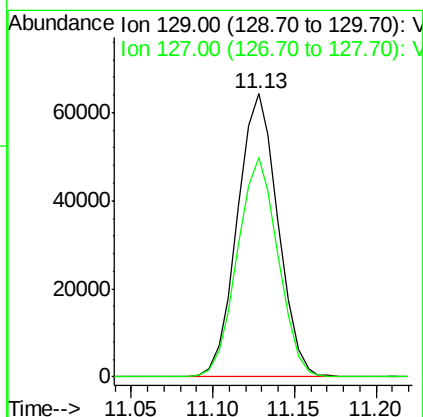
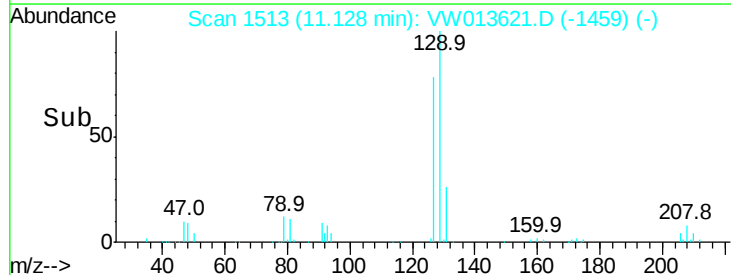
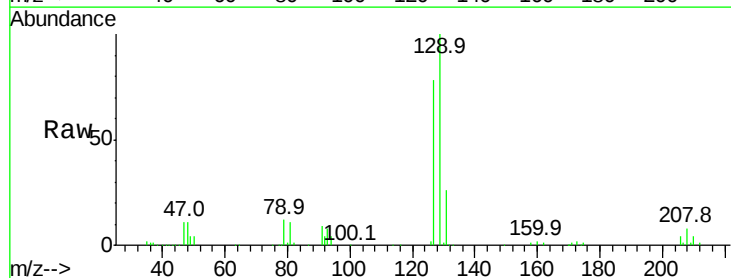
Instrument :
MSVOA_W
ClientSampleId :
VSTD02522

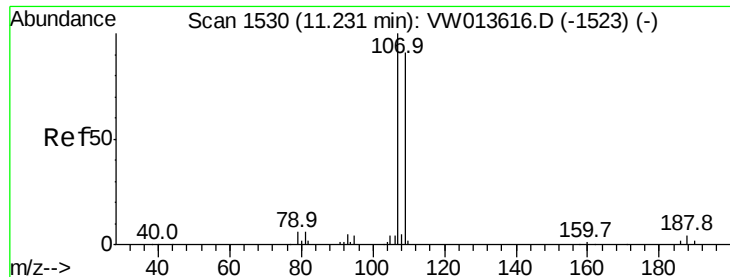
Tgt Ion: 43 Resp: 125416
Ion Ratio Lower Upper
43 100
58 56.7 45.8 68.6
57 20.5 15.4 23.2
100 13.7 10.8 16.2



#50
Dibromochloromethane
Concen: 21.999 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

Tgt Ion: 129 Resp: 111160
Ion Ratio Lower Upper
129 100
127 77.6 51.4 95.5

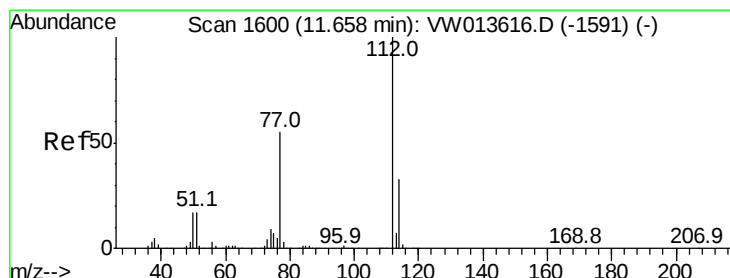
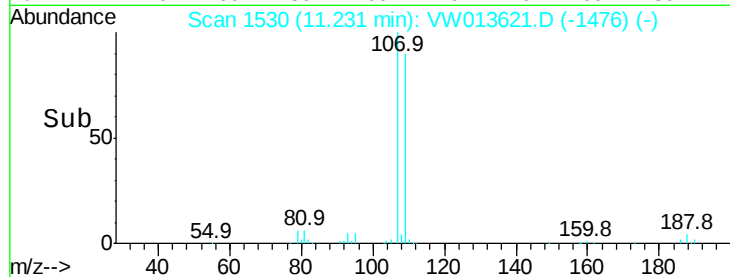
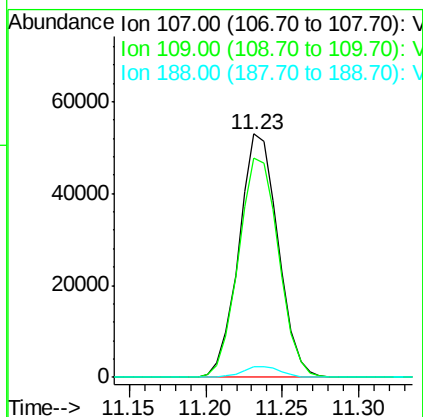
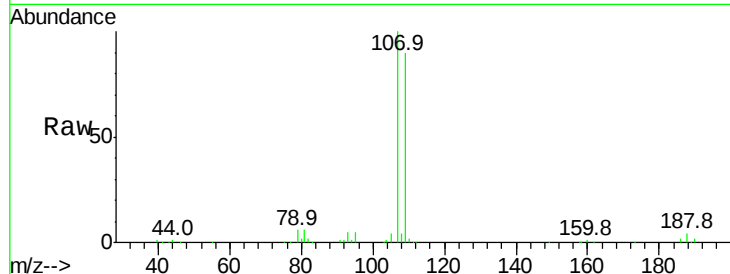




#51
1,2-Dibromoethane
Concen: 22.621 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

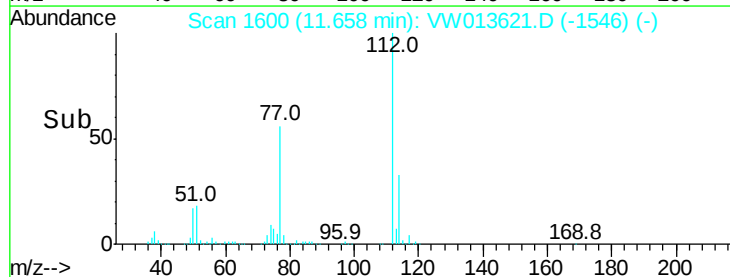
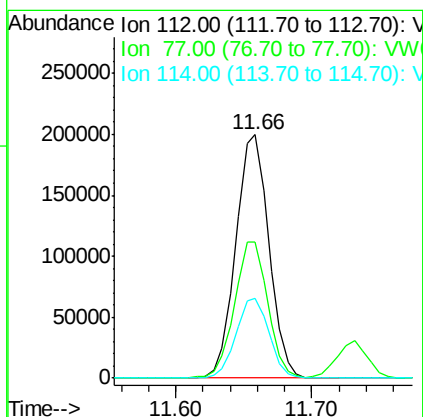
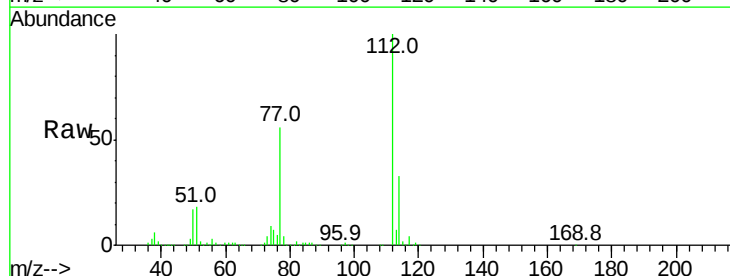
Instrument :
MSVOA_W
ClientSampleId :
VSTD02522

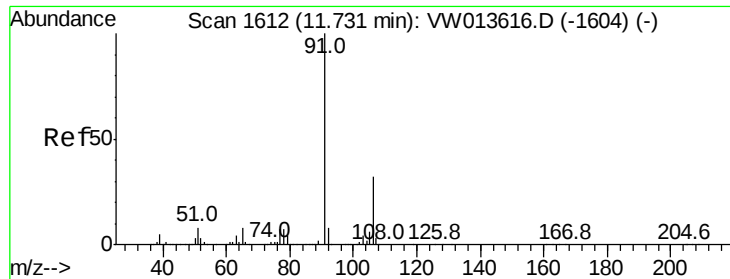
Tgt Ion:107 Resp: 94180
Ion Ratio Lower Upper
107 100
109 90.2 64.0 118.8
188 4.4 3.4 5.2



#52
Chlorobenzene
Concen: 21.751 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

Tgt Ion:112 Resp: 339471
Ion Ratio Lower Upper
112 100
77 55.8 44.1 66.1
114 32.6 23.4 43.4





#53

Ethylbenzene

Concen: 21.941 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

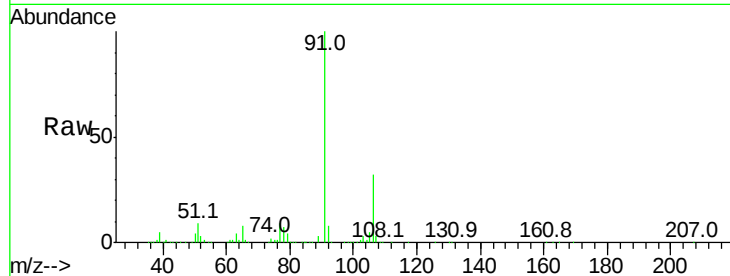
VSTD02522

Tgt Ion: 91 Resp: 591356

Ion Ratio Lower Upper

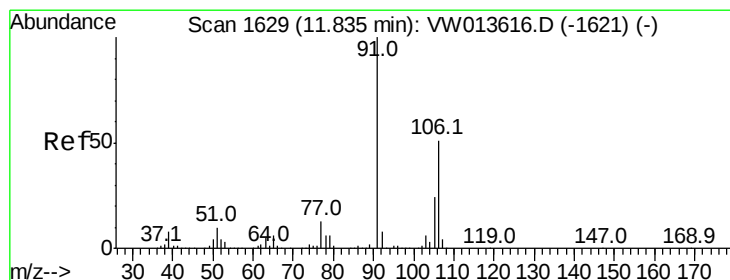
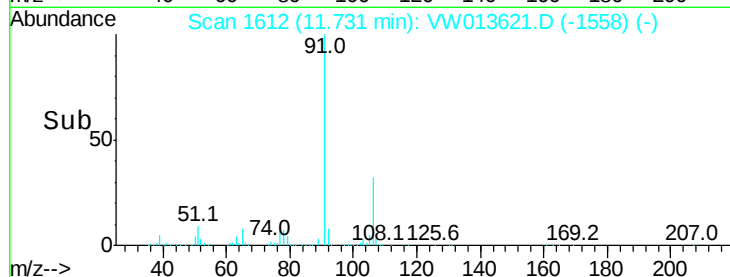
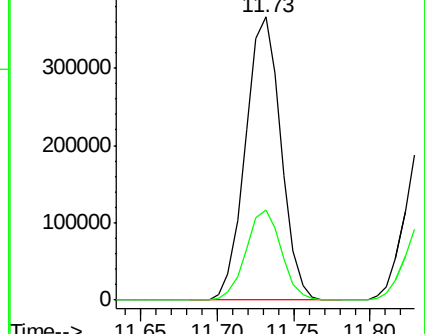
91 100

106 31.7 22.3 41.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 22.072 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW013621.D

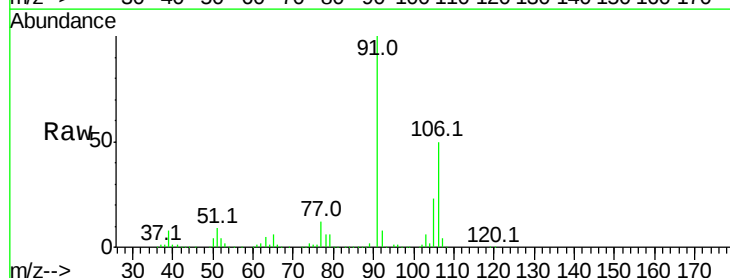
Acq: 18 Oct 2019 13:42

Tgt Ion: 106 Resp: 229887

Ion Ratio Lower Upper

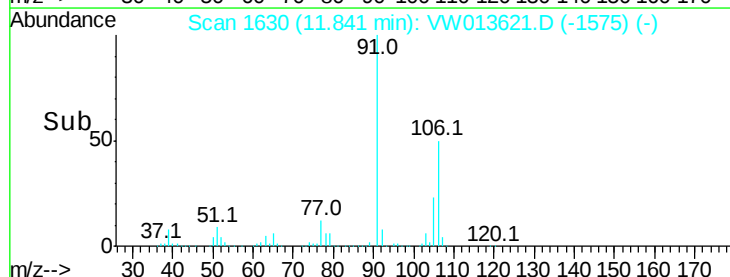
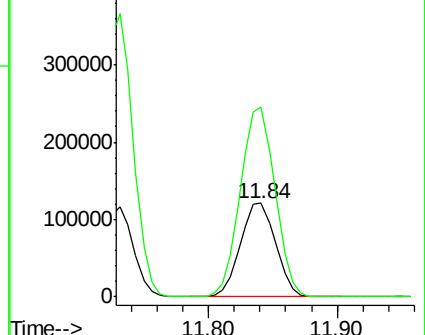
106 100

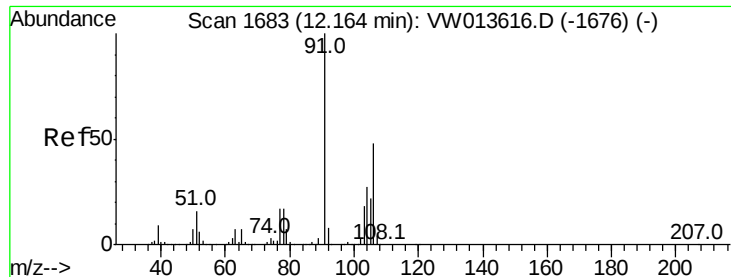
91 201.9 137.7 255.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 22.219 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

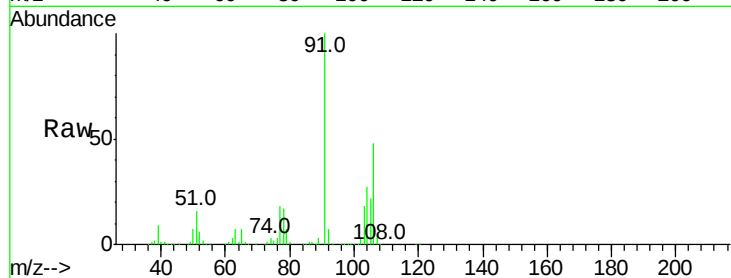
VSTD02522

Tgt Ion:106 Resp: 219601

Ion Ratio Lower Upper

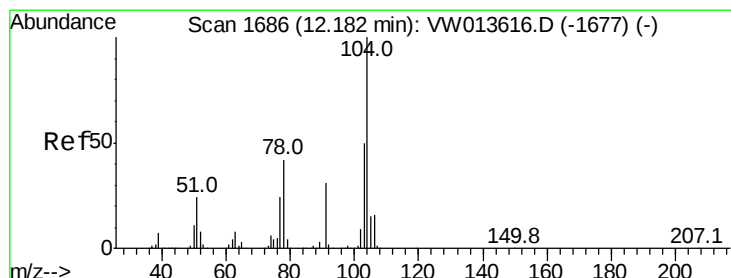
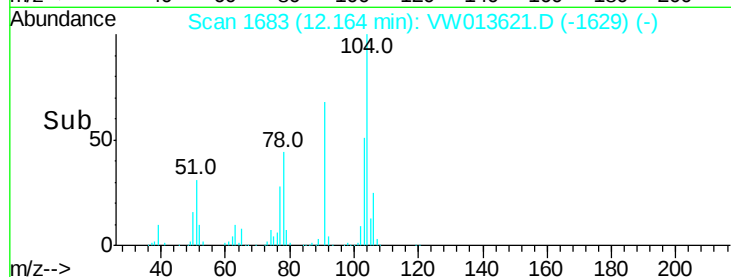
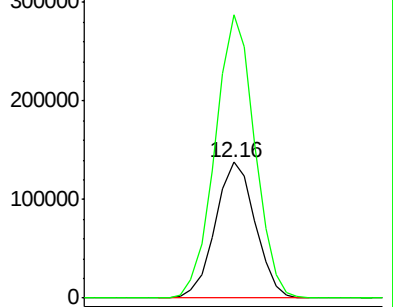
106 100

91 208.3 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 22.374 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW013621.D

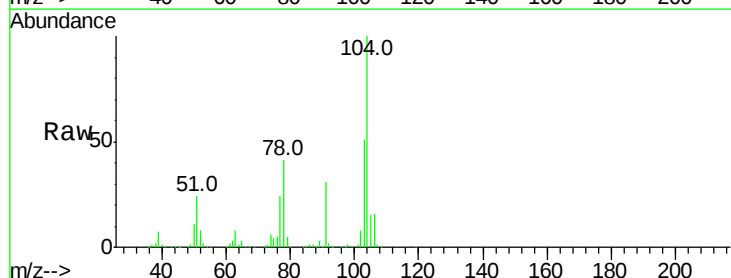
Acq: 18 Oct 2019 13:42

Tgt Ion:104 Resp: 378286

Ion Ratio Lower Upper

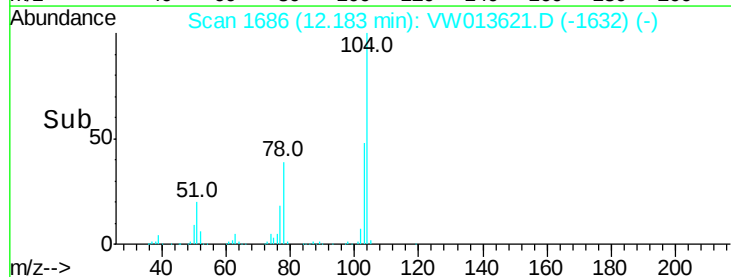
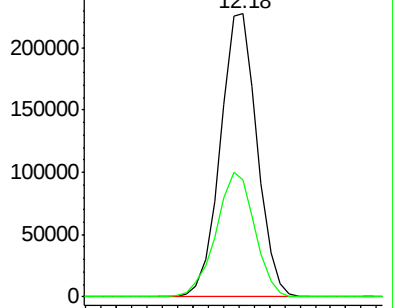
104 100

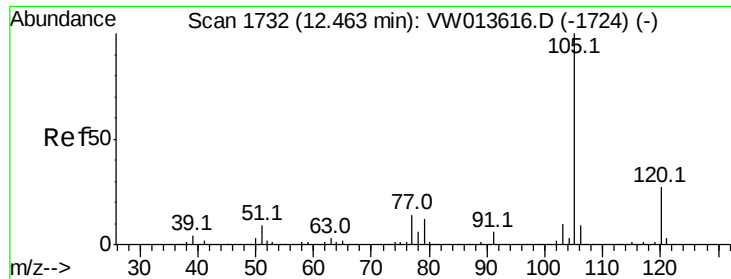
78 41.2 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 22.251 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

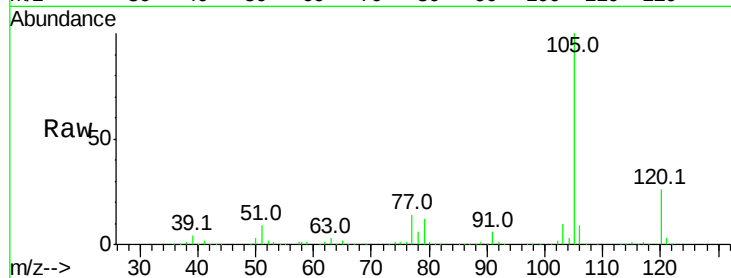
Tgt Ion: 105 Resp: 589894

Ion Ratio Lower Upper

105 100

120 26.4 21.4 32.2

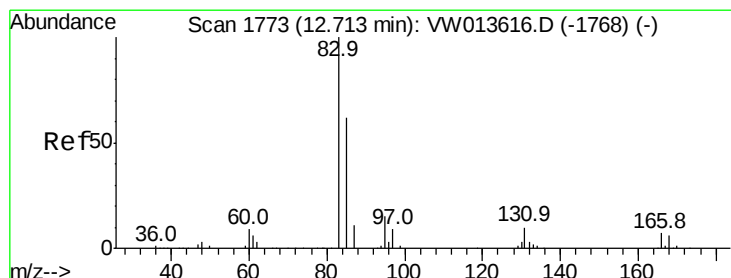
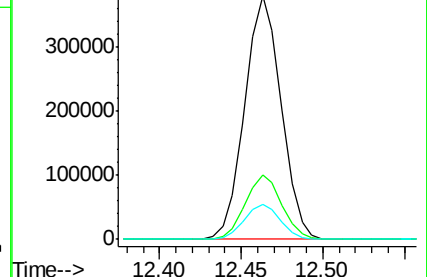
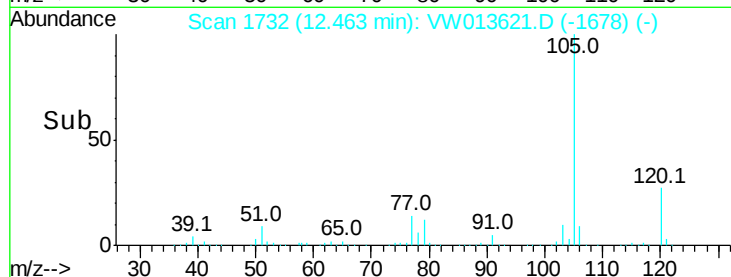
77 14.4 11.4 17.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 23.330 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

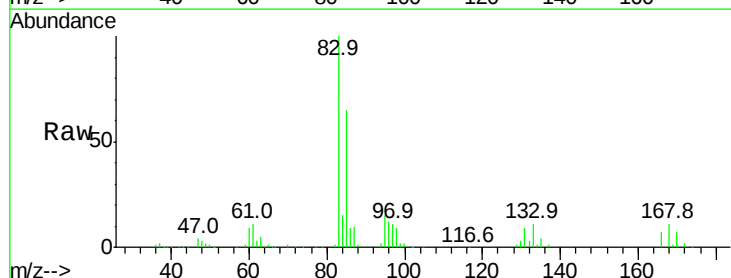
Tgt Ion: 83 Resp: 117072

Ion Ratio Lower Upper

83 100

85 65.1 44.9 83.3

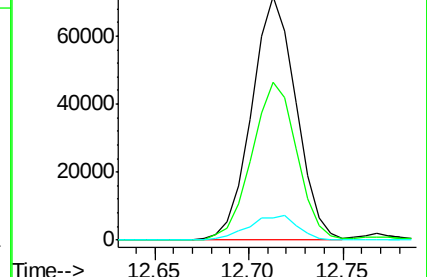
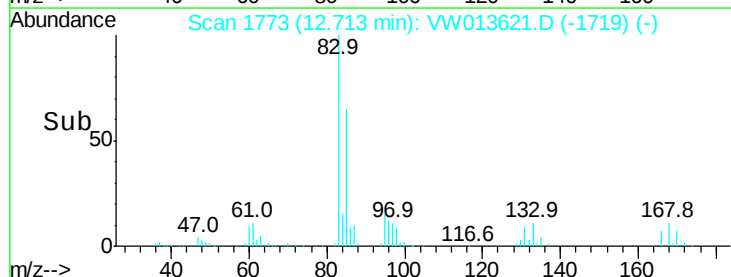
131 9.2 8.6 13.0

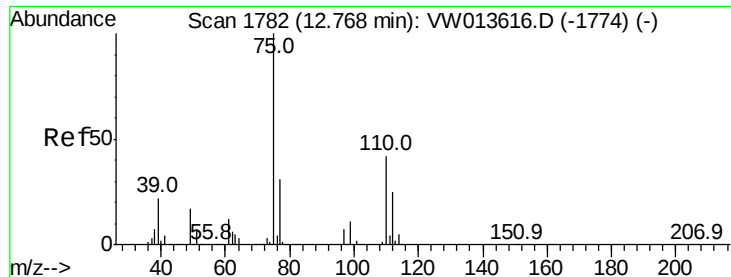


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.255 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

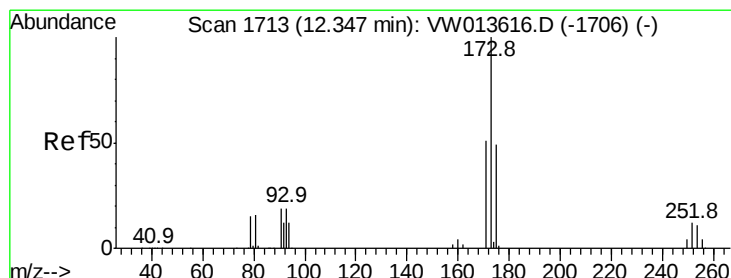
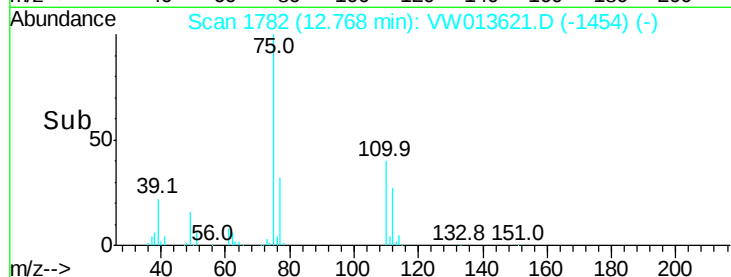
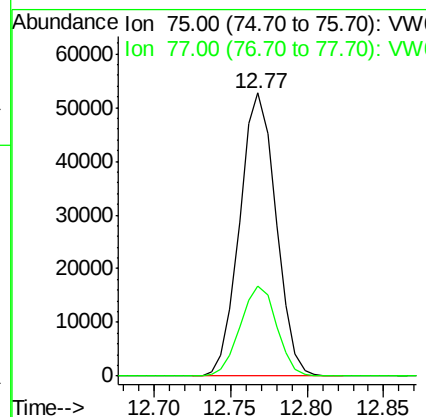
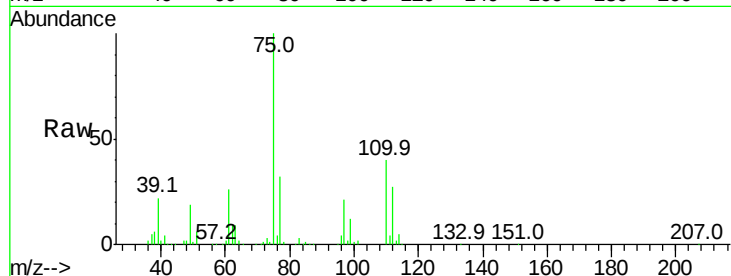
VSTD02522

Tgt Ion: 75 Resp: 87023

Ion Ratio Lower Upper

75 100

77 31.9 26.4 39.6



#62

Bromoform

Concen: 21.947 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

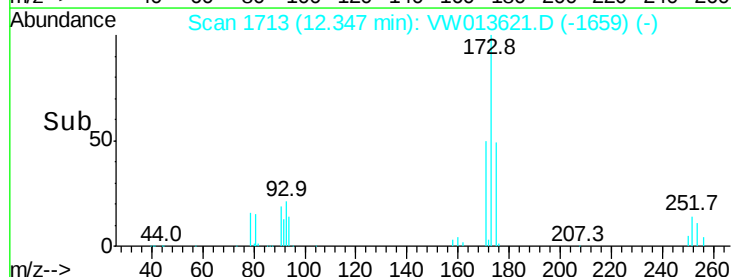
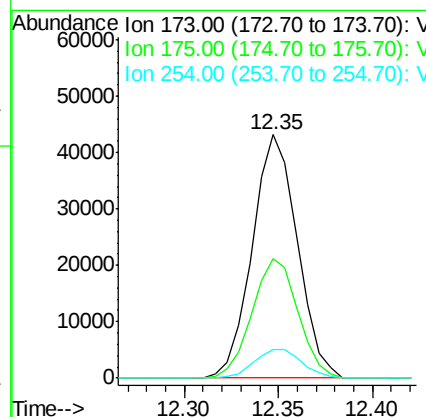
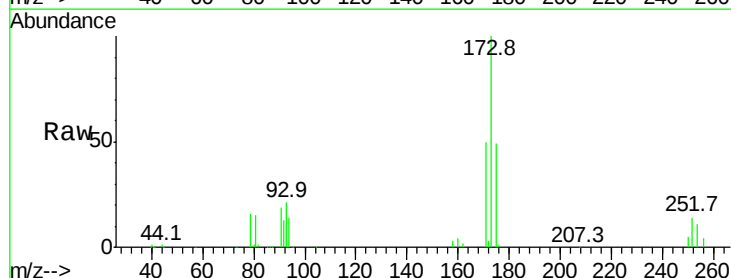
Tgt Ion: 173 Resp: 71389

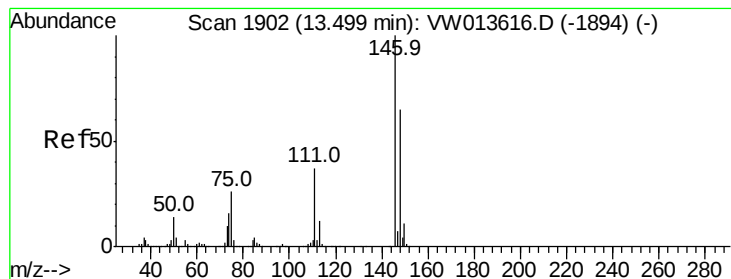
Ion Ratio Lower Upper

173 100

175 50.1 39.1 58.7

254 12.4 9.6 14.4





#63

1,3-Dichlorobenzene

Concen: 21.269 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

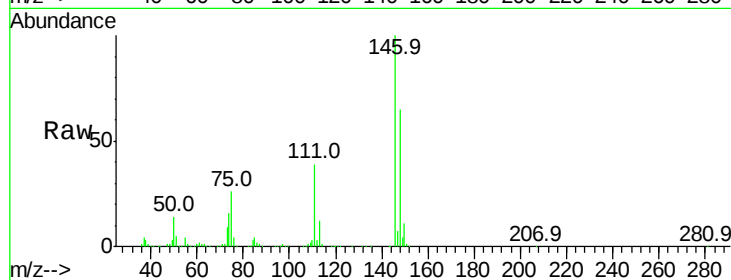
Tgt Ion:146 Resp: 273917

Ion Ratio Lower Upper

146 100

111 39.1 26.1 48.5

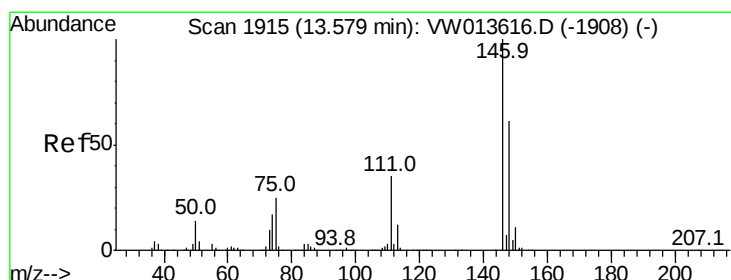
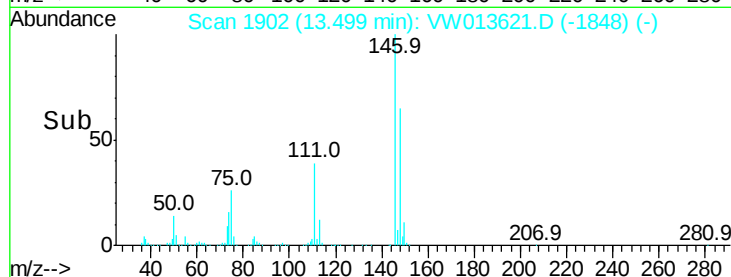
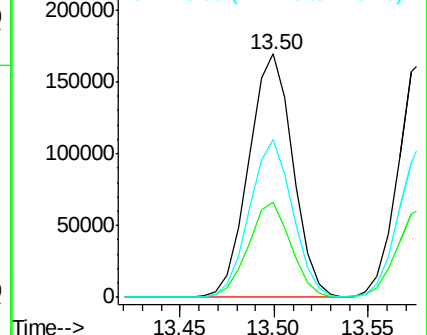
148 64.6 45.8 85.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 21.136 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

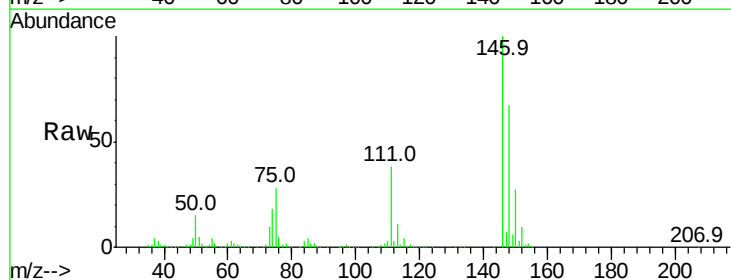
Tgt Ion:146 Resp: 273527

Ion Ratio Lower Upper

146 100

111 37.8 24.8 46.0

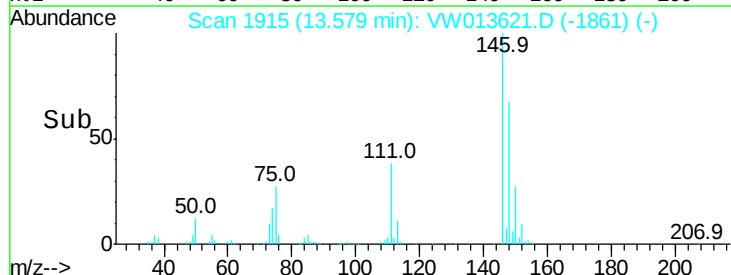
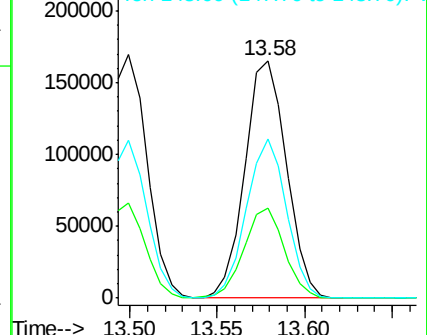
148 67.0 43.0 79.8

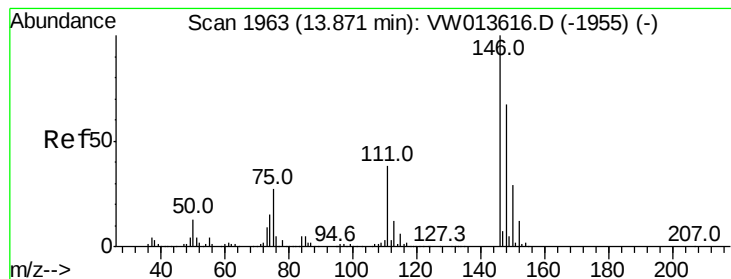


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 21.538 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

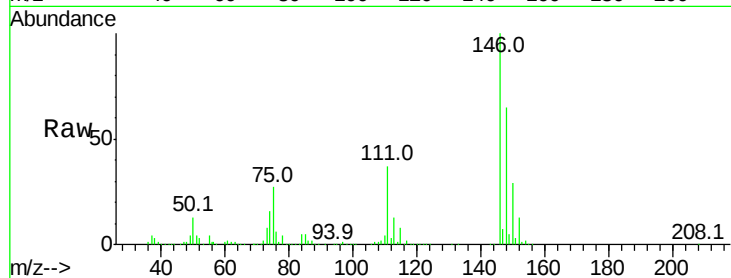
Tgt Ion:146 Resp: 251324

Ion Ratio Lower Upper

146 100

111 37.1 30.7 46.1

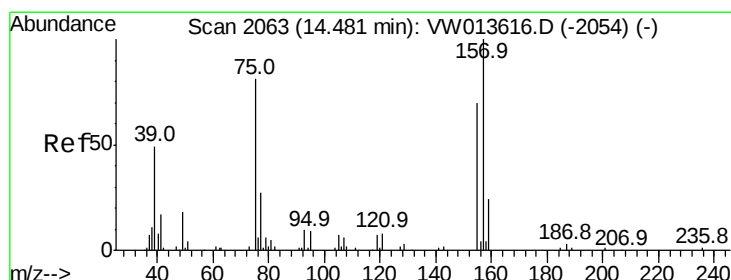
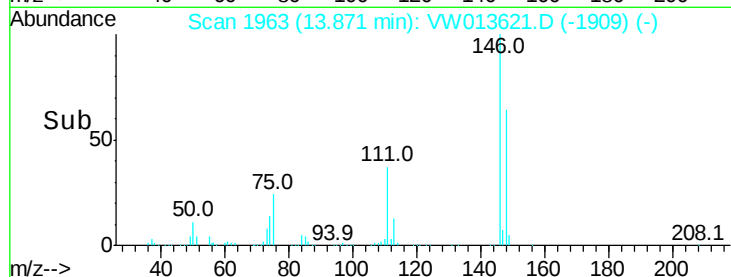
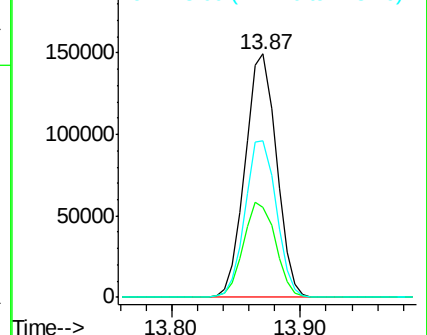
148 64.5 53.3 79.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 24.072 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

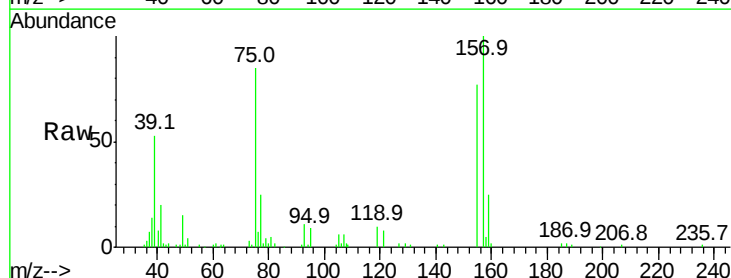
Tgt Ion: 75 Resp: 19307

Ion Ratio Lower Upper

75 100

157 117.2 99.4 149.0

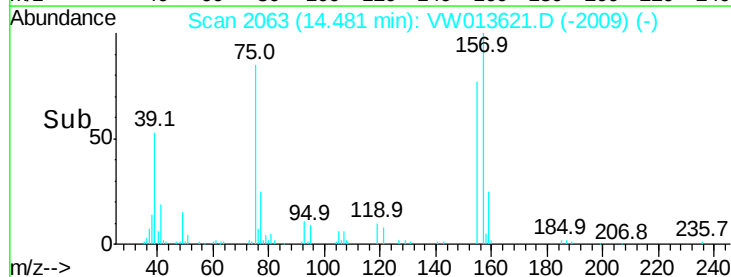
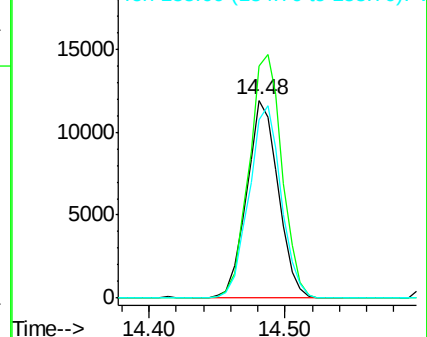
155 89.8 69.7 104.5

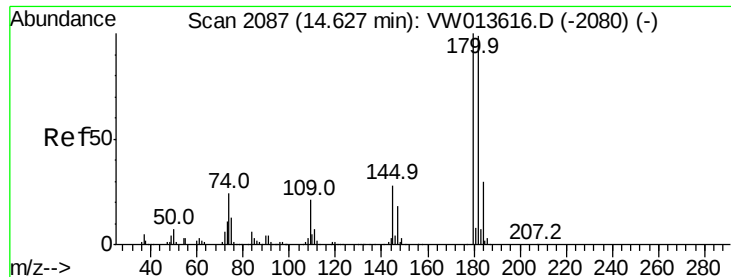


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

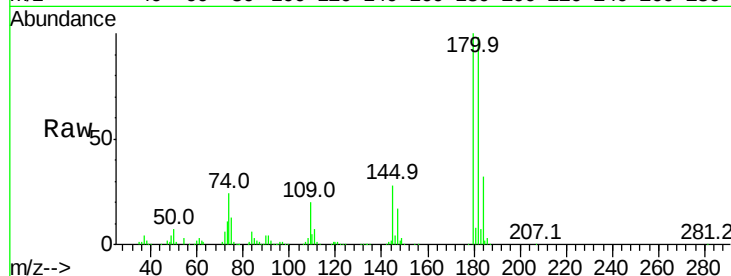




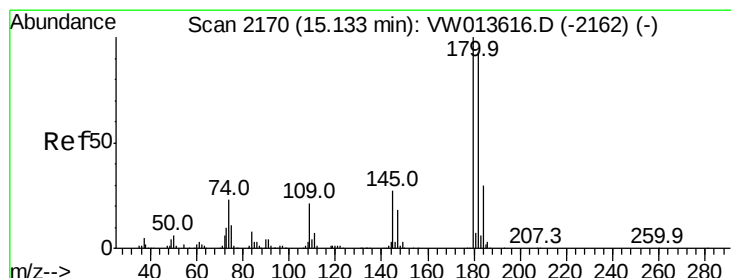
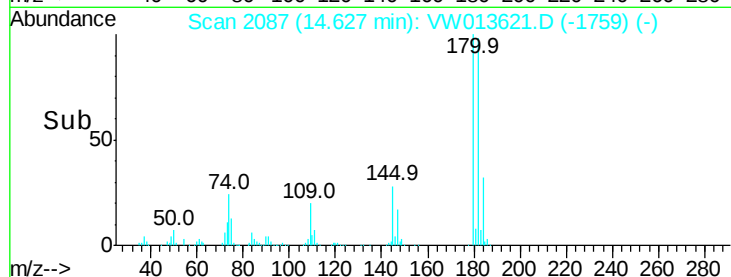
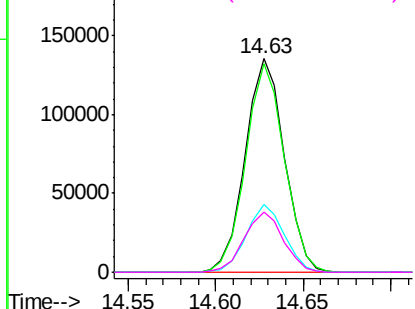
#67
1,3,5-Trichlorobenzene
Concen: 22.037 ug/L
RT: 14.63 min Scan# 2087
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

Instrument :
MSVOA_W
ClientSampleId :
VSTD02522

Tgt Ion:	180	Resp:	210983
Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.2	114.4
184	30.7	24.1	36.1
145	28.0	21.8	32.8

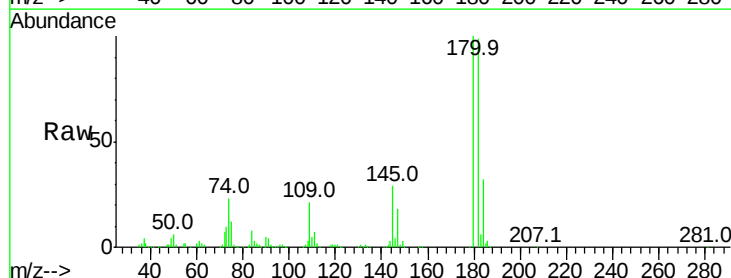


Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V
Ion 145.00 (144.70 to 145.70): V

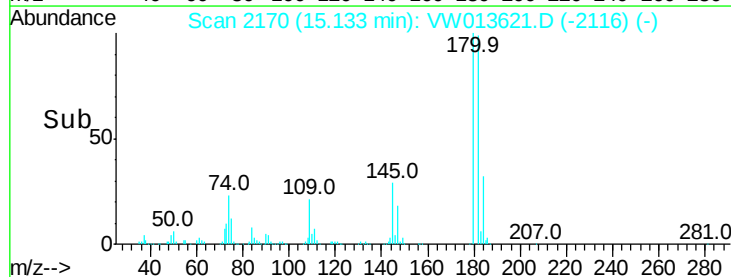
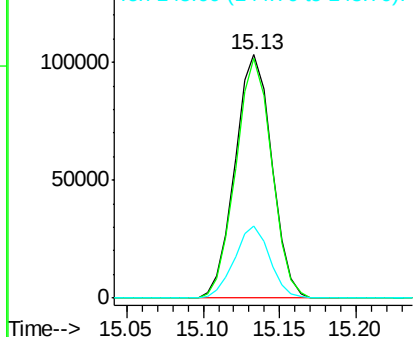


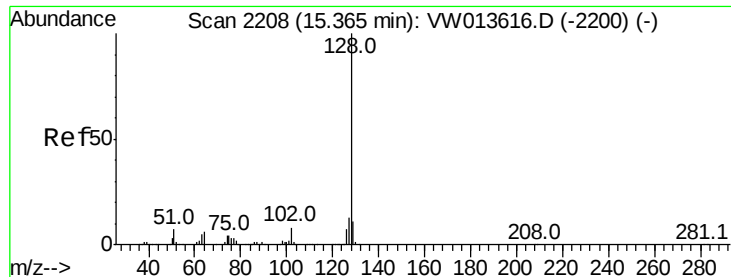
#68
1,2,4-trichlorobenzene
Concen: 21.281 ug/L
RT: 15.13 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VW013621.D
Acq: 18 Oct 2019 13:42

Tgt Ion:	180	Resp:	172974
Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.8
145	28.4	22.6	34.0



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: 18.968 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

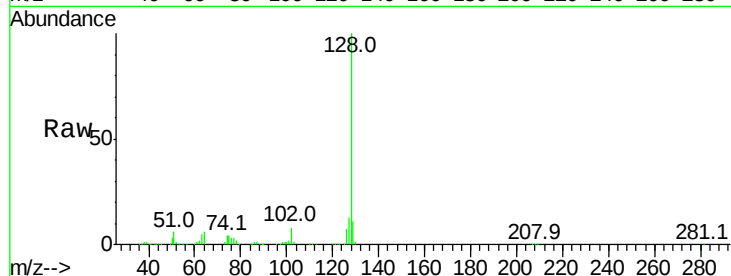
Tgt Ion:128 Resp: 279363

Ion Ratio Lower Upper

128 100

129 10.6 8.6 13.0

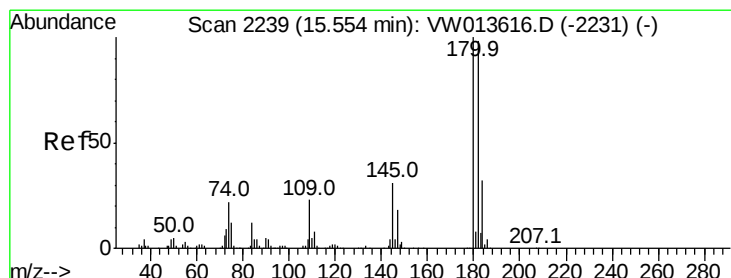
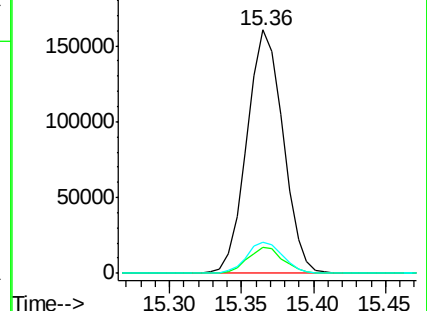
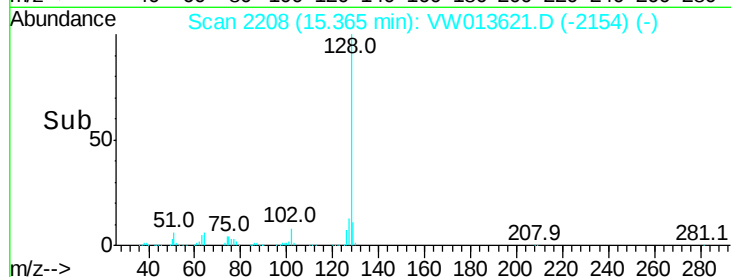
127 12.8 10.5 15.7



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: 21.795 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW013621.D

Acq: 18 Oct 2019 13:42

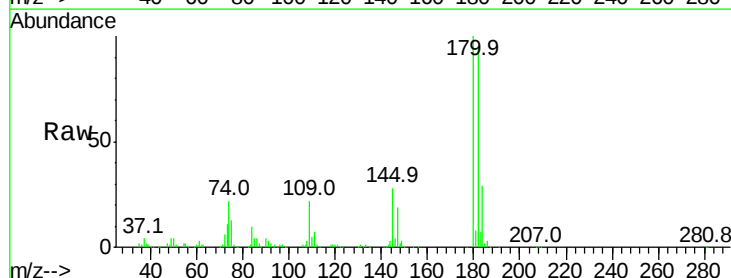
Tgt Ion:180 Resp: 158648

Ion Ratio Lower Upper

180 100

182 95.1 77.0 115.4

145 29.7 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

