

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102119\
 Data File : VW013644.D
 Acq On : 21 Oct 2019 19:04
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 21 19:27:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 21 16:37:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	331640	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	322415	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	198183	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	94516	23.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.92%
7) Chloroethane-d5	2.89	69	82793	21.80	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.20%
10) 1,1-Dichloroethene-d2	4.03	63	212714	23.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.68%
20) 2-Butanone-d5	7.07	46	70594	48.51	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.02%
24) Chloroform-d	7.65	84	216974	23.38	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.52%
26) 1,2-Dichloroethane-d4	8.30	65	111013	22.88	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.52%
29) Benzene-d6	8.27	84	436780	22.55	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.20%
33) 1,2-Dichloropropane-d6	9.27	67	135442	23.41	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.64%
37) Toluene-d8	10.32	98	404237	22.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.52%
38) trans-1,3-Dichloropropene-	10.57	79	60338	23.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.48%
39) 2-Hexanone-d5	10.92	63	58624	53.01	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	106.02%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	119404	25.20	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.80%
61) 1,2-Dichlorobenzene-d4	13.85	152	160413	22.90	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	86208	23.111	ug/L 95
3) Chloromethane	2.21	50	84054	20.816	ug/L 99
5) Vinyl chloride	2.37	62	135971	26.946	ug/L 100
6) Bromomethane	2.78	94	85978	23.580	ug/L 96
8) Chloroethane	2.93	64	83084	24.364	ug/L 97
9) Trichlorofluoromethane	3.26	101	77701	22.846	ug/L 98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	136478	25.483	ug/L 99
12) 1,1-Dichloroethene	4.05	96	136677	25.931	ug/L 91
13) Acetone	4.13	43	55974	34.654	ug/L 97
14) Carbon disulfide	4.39	76	394599	26.165	ug/L 99
15) Methyl Acetate	4.67	43	69388	26.291	ug/L 98
16) Methylene chloride	4.92	84	151885	23.917	ug/L 97
17) Methyl tert-butyl Ether	5.43	73	189859	26.034	ug/L 100
18) trans-1,2-Dichloroethene	5.42	96	148014	25.404	ug/L 93
19) 1,1-Dichloroethane	6.21	63	248970	25.245	ug/L 98
21) 2-Butanone	7.17	43	93417	45.551	ug/L 98
22) cis-1,2-Dichloroethene	7.17	96	158111	25.282	ug/L 97

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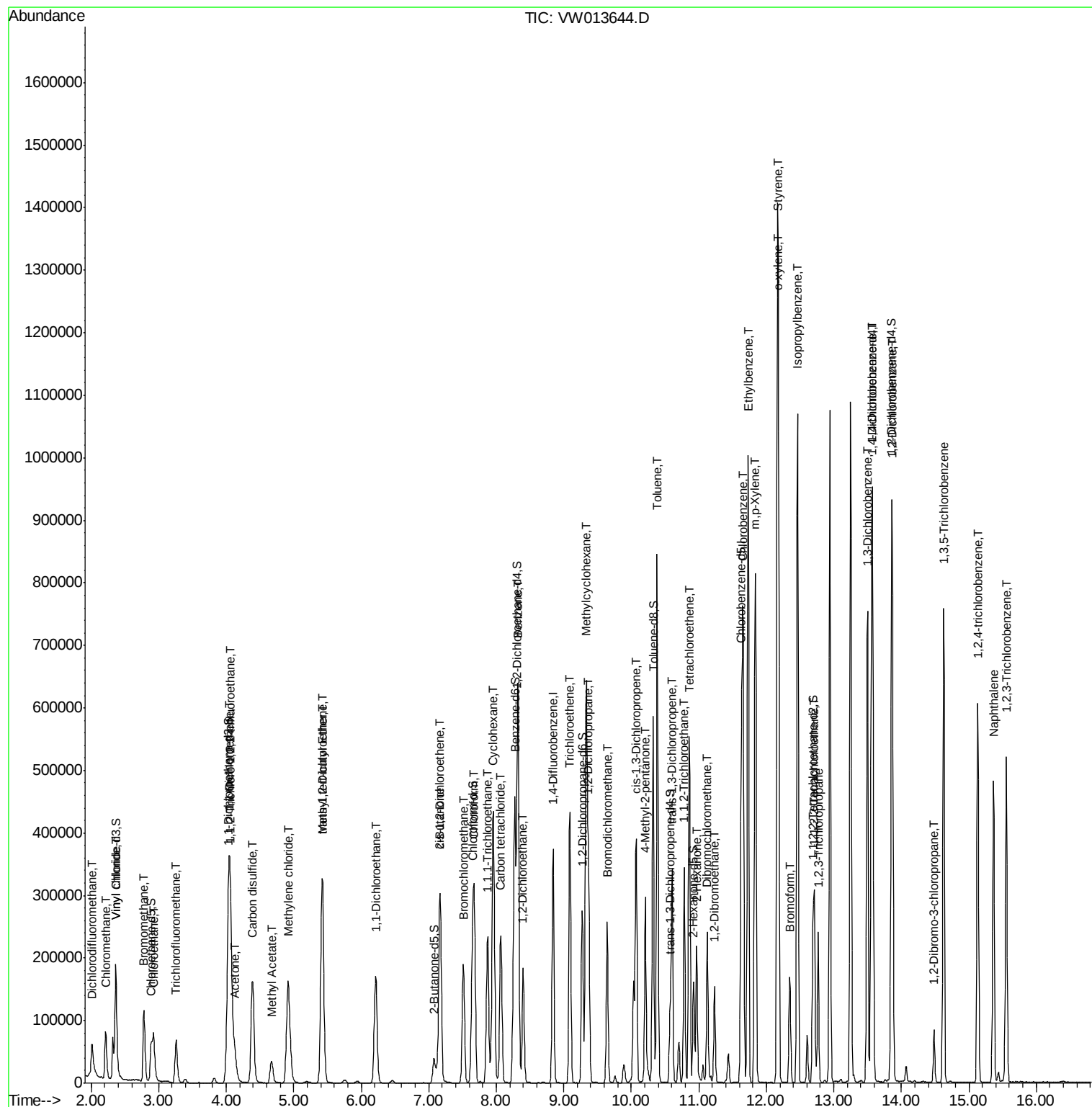
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	72839	25.768	ug/L	94
25) Chloroform	7.68	83	252262	25.464	ug/L	99
27) 1,2-Dichloroethane	8.40	62	163257	25.712	ug/L	97
30) Cyclohexane	7.96	56	247440	26.196	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	195352	25.978	ug/L	99
32) Carbon tetrachloride	8.07	117	188242	25.707	ug/L	99
34) Benzene	8.32	78	589776	25.494	ug/L	100
35) Trichloroethene	9.09	95	153396	25.844	ug/L	98
36) Methylcyclohexane	9.34	83	276301	26.411	ug/L	98
40) 1,2-Dichloropropane	9.37	63	143269	25.329	ug/L	99
41) Bromodichloromethane	9.65	83	179591	25.912	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	232992	26.090	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	194544	50.411	ug/L	99
44) Toluene	10.38	91	640214	25.758	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	185193	25.690	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	110669	25.369	ug/L	97
47) Tetrachloroethene	10.86	164	139329	25.645	ug/L	97
49) 2-Hexanone	10.97	43	137113	50.081	ug/L	98
50) Dibromochloromethane	11.13	129	133755	25.980	ug/L	98
51) 1,2-Dibromoethane	11.23	107	109444	25.799	ug/L	98
52) Chlorobenzene	11.66	112	406828	25.583	ug/L	99
53) Ethylbenzene	11.73	91	711770	25.919	ug/L	99
54) m,p-Xylene	11.83	106	276430	26.049	ug/L	100
55) o-xylene	12.16	106	265639	26.378	ug/L	100
56) Styrene	12.18	104	452824	26.285	ug/L	98
57) Isopropylbenzene	12.46	105	711644	26.345	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	133297	26.070	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	100029	26.235	ug/L	99
62) Bromoform	12.35	173	83419	24.561	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	339600	25.254	ug/L	96
64) 1,4-Dichlorobenzene	13.58	146	332299	24.591	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	307943	25.274	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	20830	24.872	ug/L	92
67) 1,3,5-Trichlorobenzene	14.63	180	259433	25.951	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	218941	25.797	ug/L	99
69) Naphthalene	15.36	128	416846	27.105	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	203464	26.770	ug/L	99

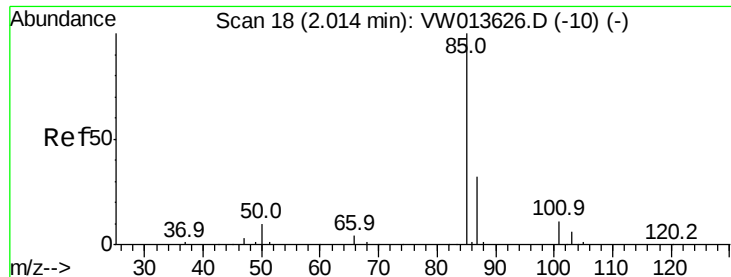
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.111 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

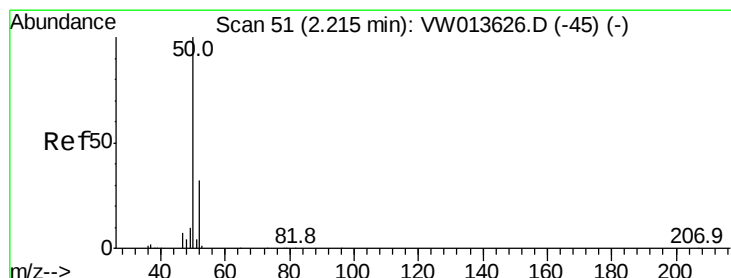
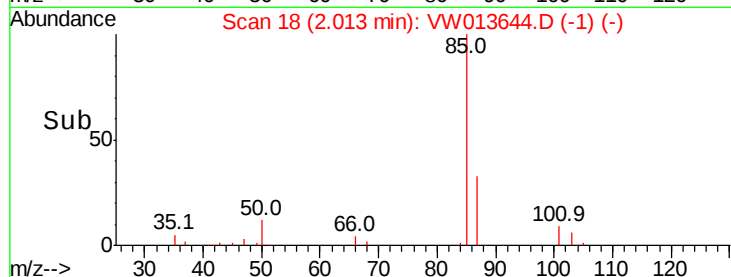
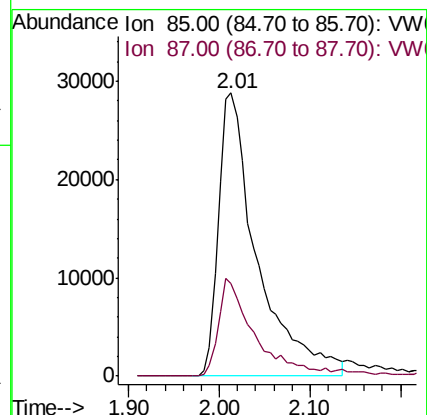
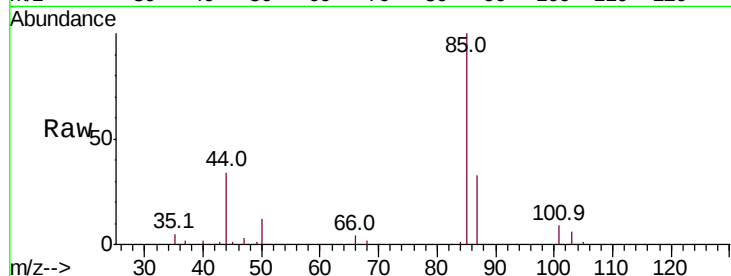
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 85 Resp: 86208

Ion Ratio Lower Upper

85 100

87 31.3 20.2 37.4



#3

Chloromethane

Concen: 20.816 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW013644.D

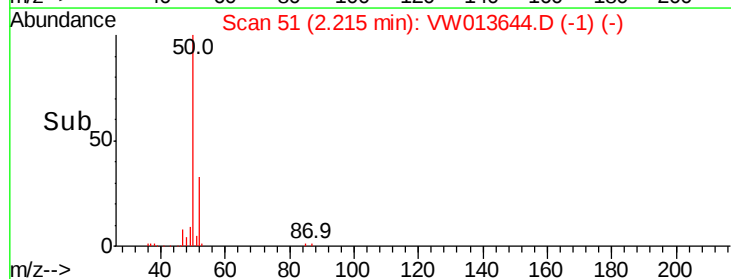
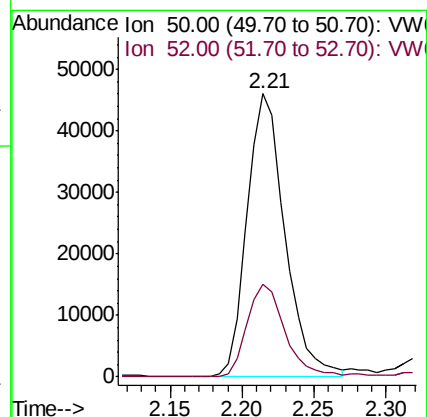
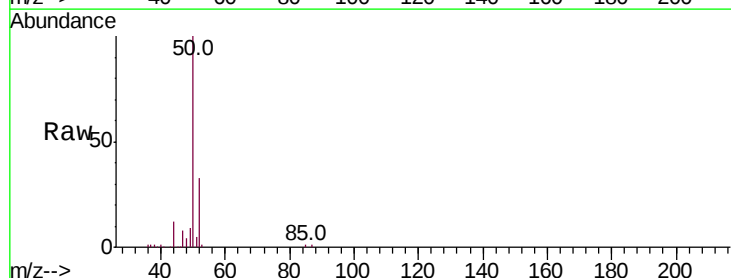
Acq: 21 Oct 2019 19:04

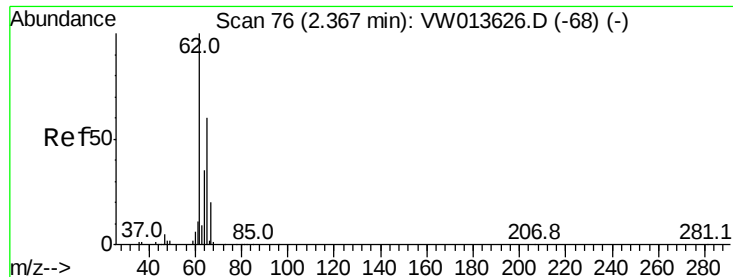
Tgt Ion: 50 Resp: 84054

Ion Ratio Lower Upper

50 100

52 32.5 23.3 43.3





#5

Vinyl chloride

Concen: 26.946 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

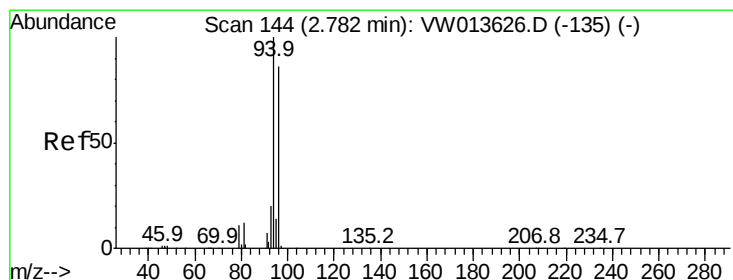
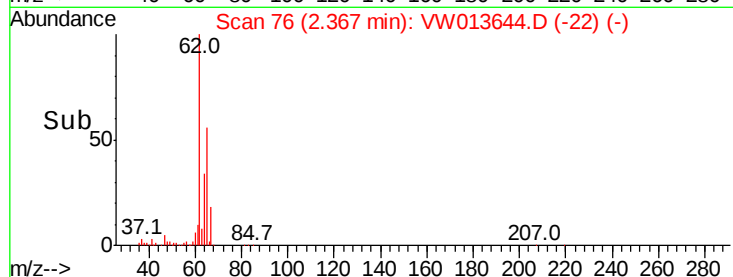
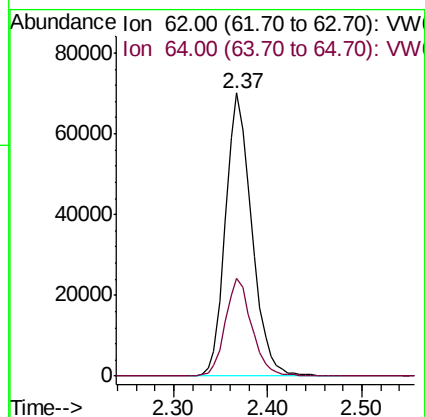
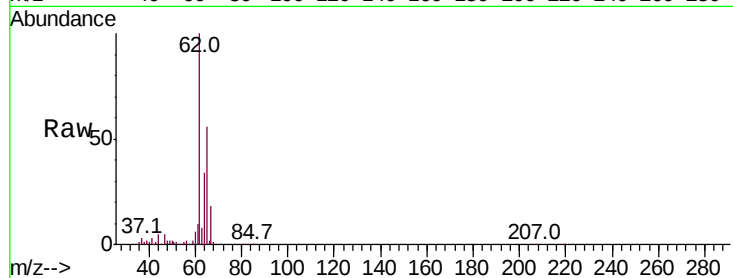
ClientSampleId :

Tot Ion: 62 Resp: 135971

Ion Ratio Lower Upper

62 100

64 34.5 23.9 44.5



#6

Bromomethane

Concen: 23.580 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW013644.D

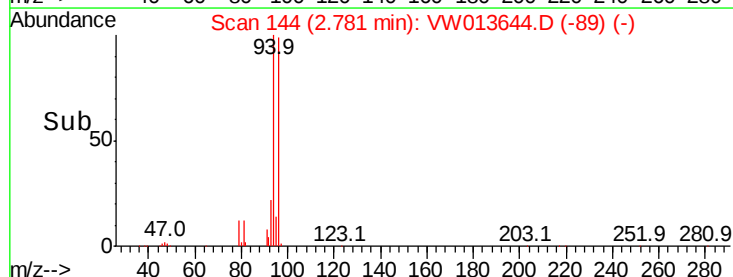
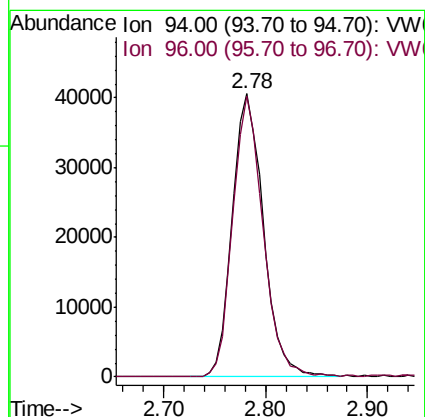
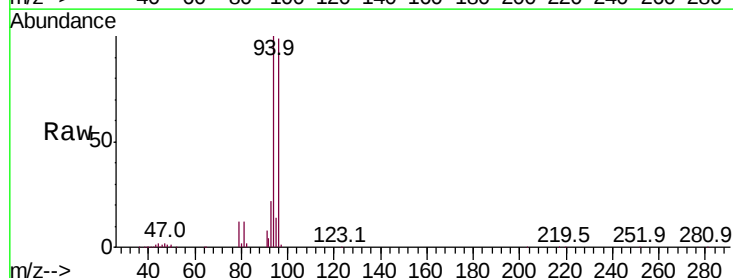
Acq: 21 Oct 2019 19:04

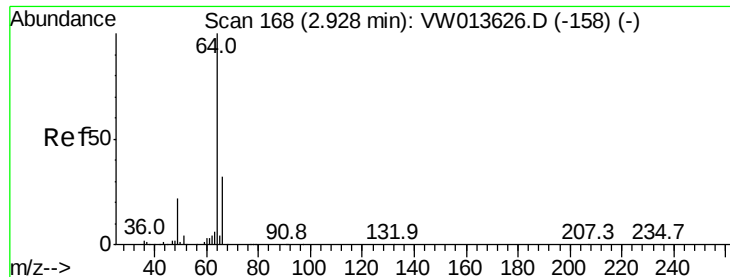
Tgt Ion: 94 Resp: 85978

Ion Ratio Lower Upper

94 100

96 96.6 9.3 176.9





#8

Chloroethane

Concen: 24.364 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

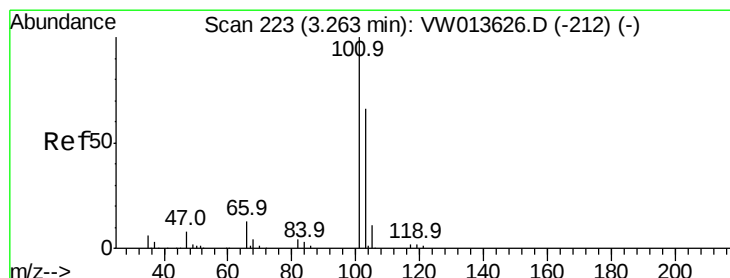
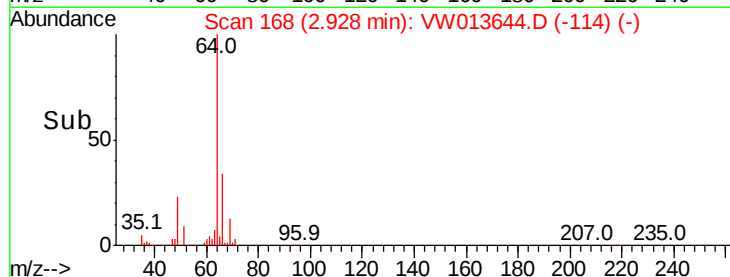
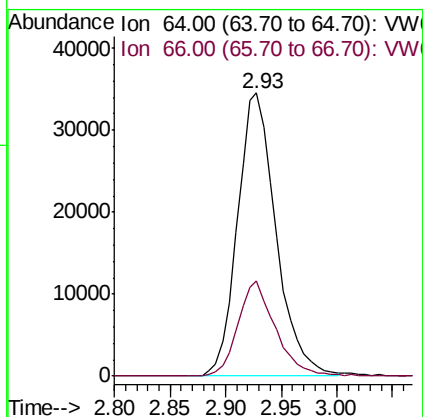
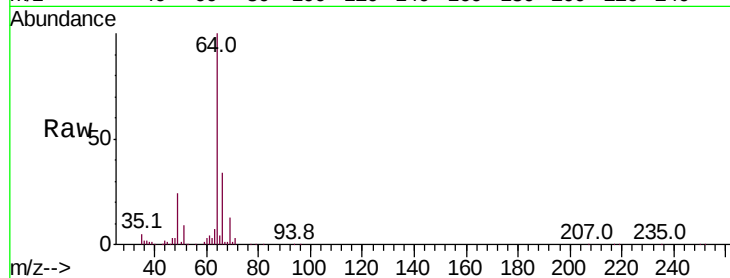
ClientSampleId :

Tot Ion: 64 Resp: 83084

Ion Ratio Lower Upper

64 100

66 33.6 22.2 41.2



#9

Trichlorofluoromethane

Concen: 22.846 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW013644.D

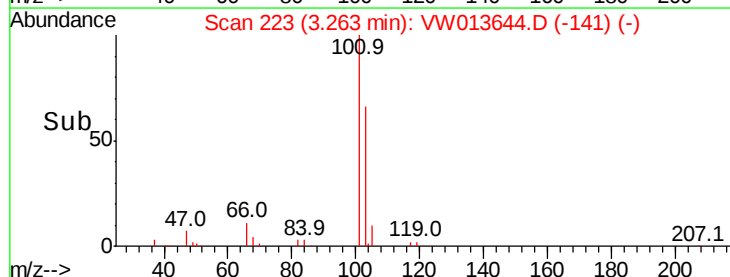
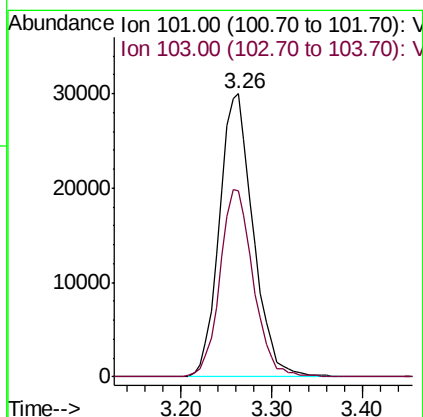
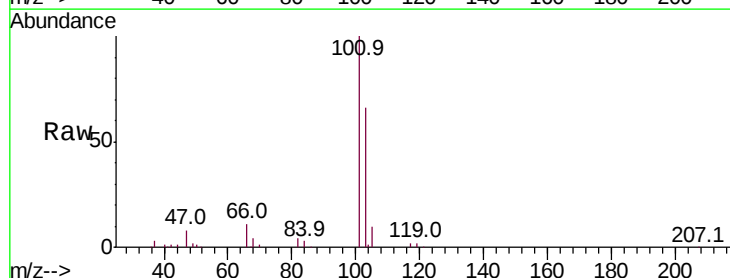
Acq: 21 Oct 2019 19:04

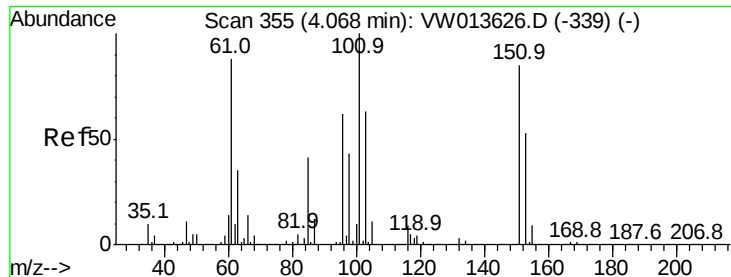
Tgt Ion: 101 Resp: 77701

Ion Ratio Lower Upper

101 100

103 64.8 46.5 86.5





#11

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

Concen: 25.483 ug/L

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

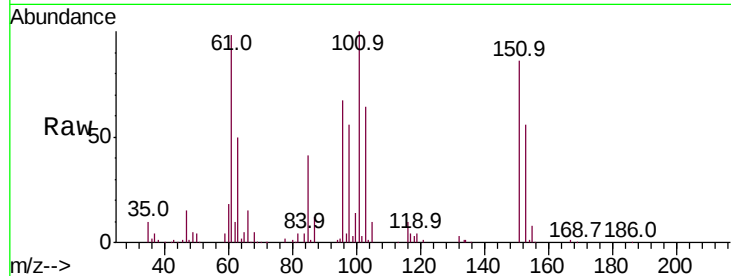
Tot Ion:101 Resp: 136478

Ion Ratio Lower Upper

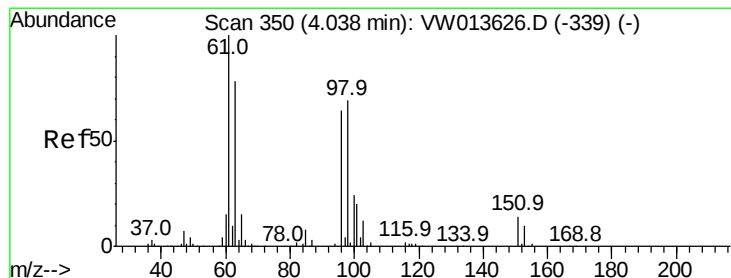
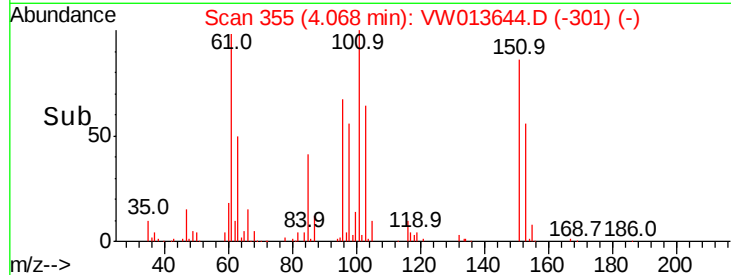
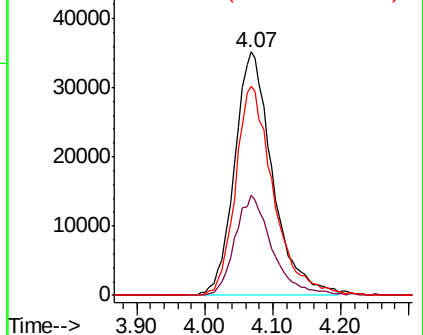
101 100

85 39.5 32.0 48.0

151 84.2 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: 25.931 ug/L

RT: 4.05 min Scan# 352

Delta R.T. 0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

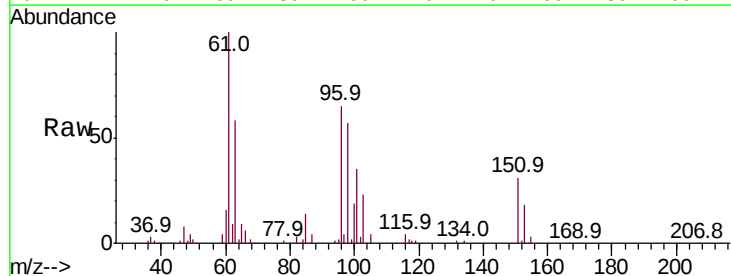
Tgt Ion: 96 Resp: 136677

Ion Ratio Lower Upper

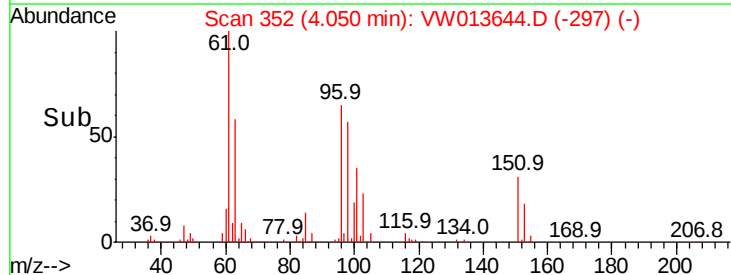
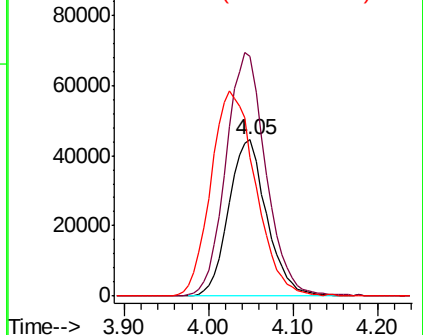
96 100

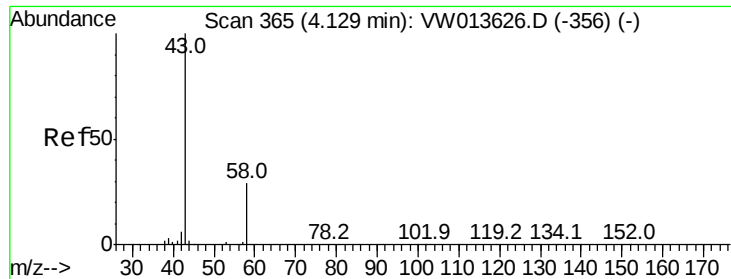
61 153.5 112.7 209.3

63 88.9 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: 34.654 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

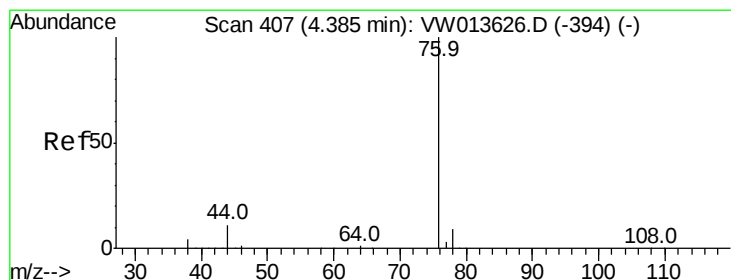
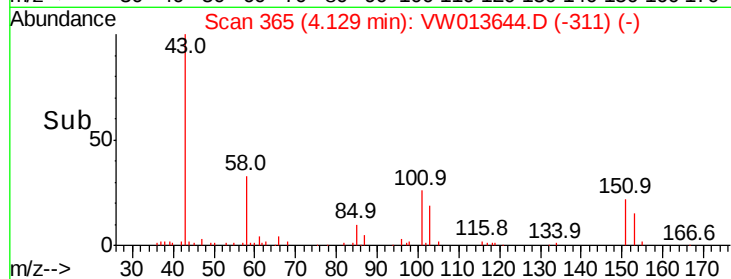
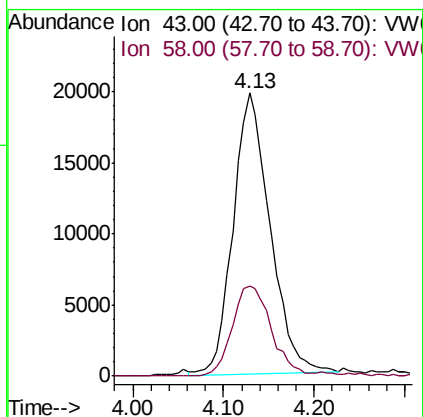
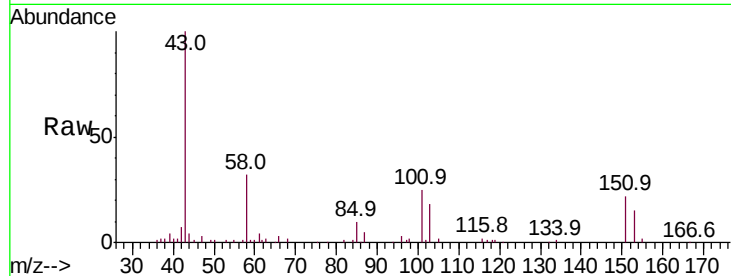
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 55974

Ion Ratio Lower Upper

43 100

58 33.7 0.0 70.4



#14

Carbon disulfide

Concen: 26.165 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013644.D

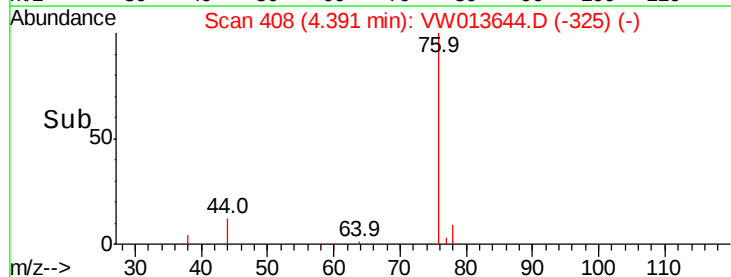
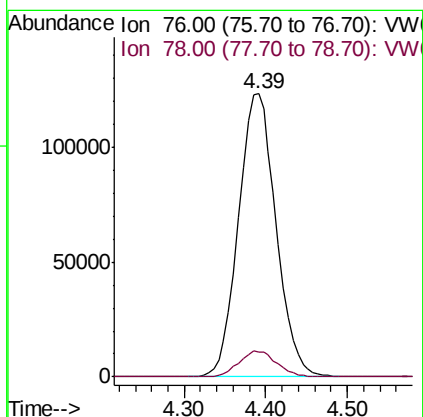
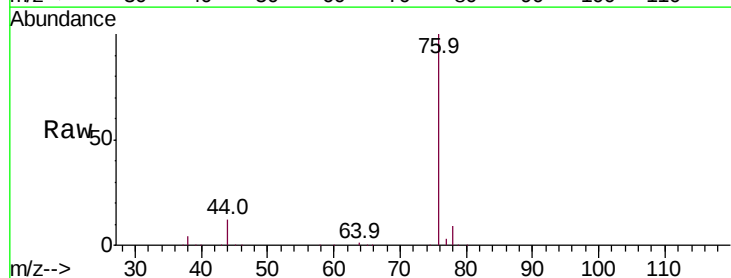
Acq: 21 Oct 2019 19:04

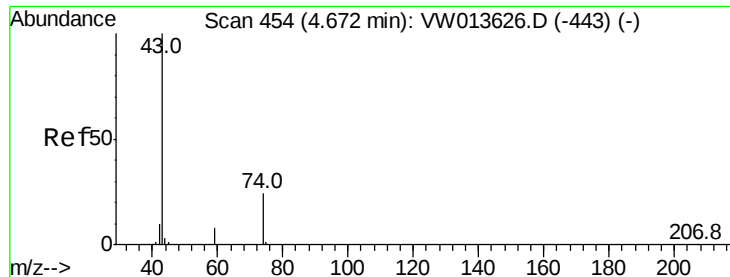
Tgt Ion: 76 Resp: 394599

Ion Ratio Lower Upper

76 100

78 8.6 7.1 10.7





#15

Methyl Acetate

Concen: 26.291 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

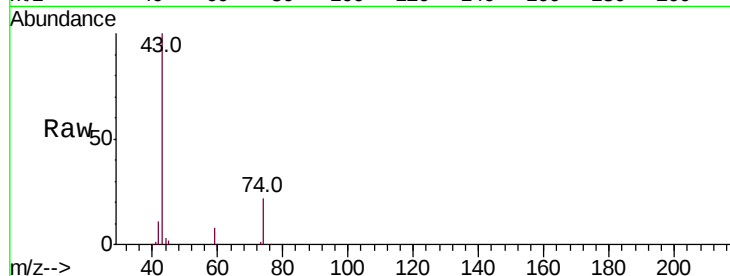
ClientSampled :

Tot Ion: 43 Resp: 69388

Ion Ratio Lower Upper

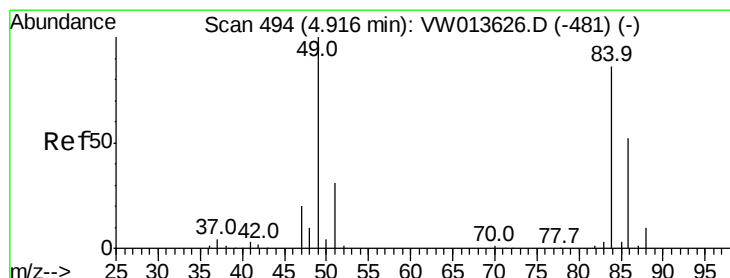
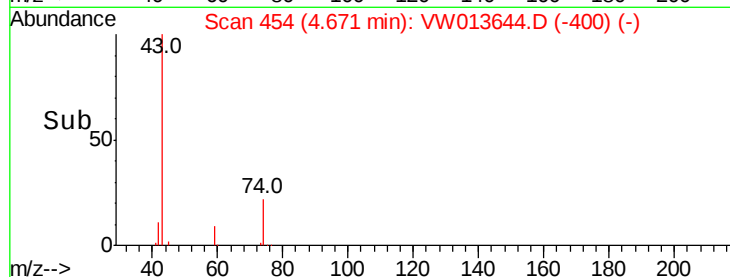
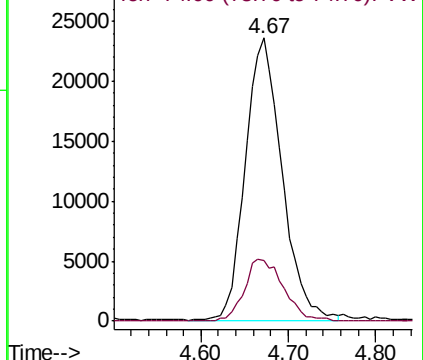
43 100

74 23.1 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: 23.917 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

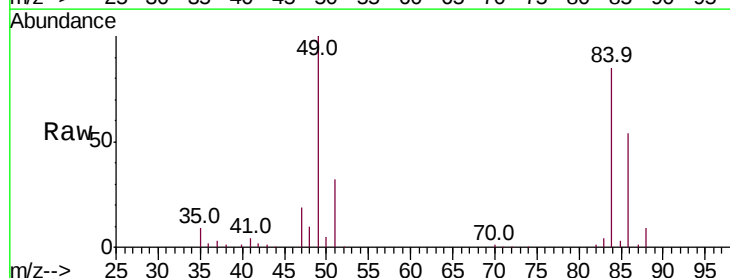
Tgt Ion: 84 Resp: 151885

Ion Ratio Lower Upper

84 100

49 117.5 80.2 148.9

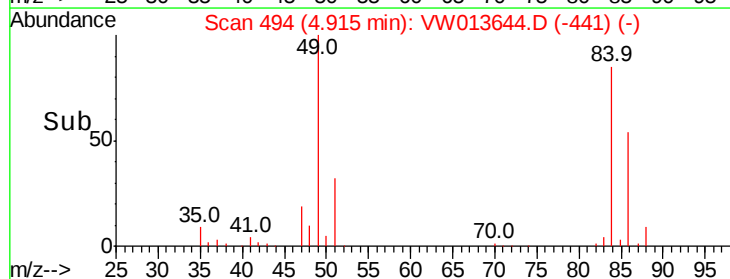
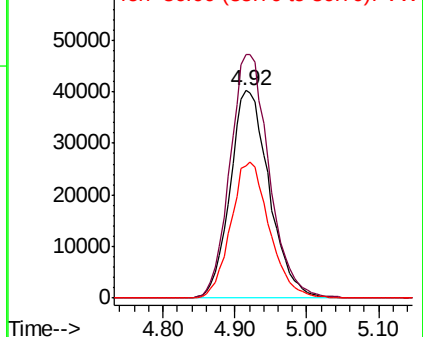
86 63.7 42.7 79.3

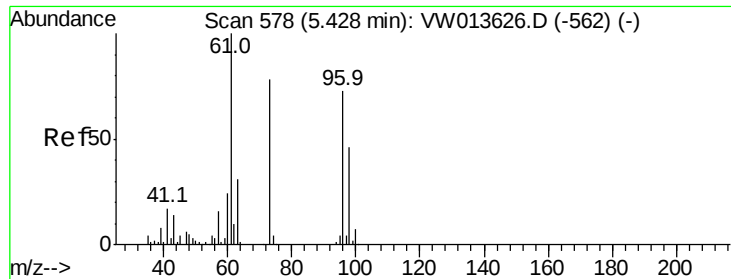


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

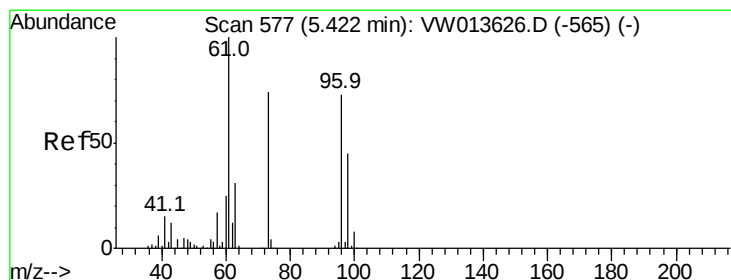
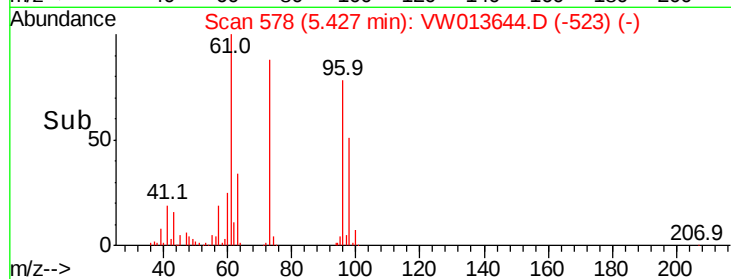
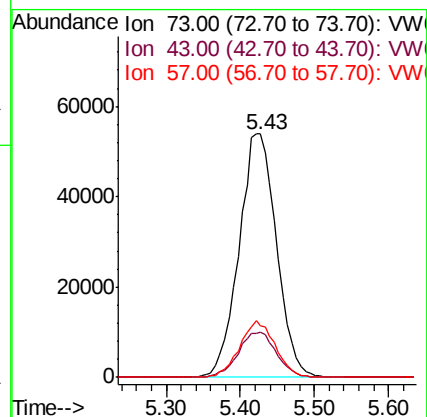
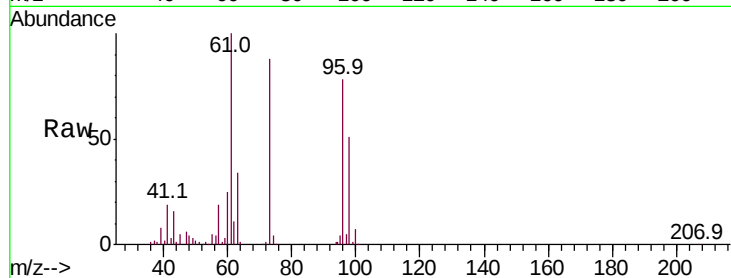




#17
Methvl tert-butvl Ether
Concen: 26.034 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

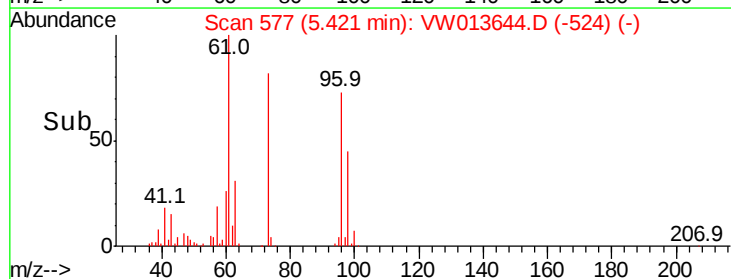
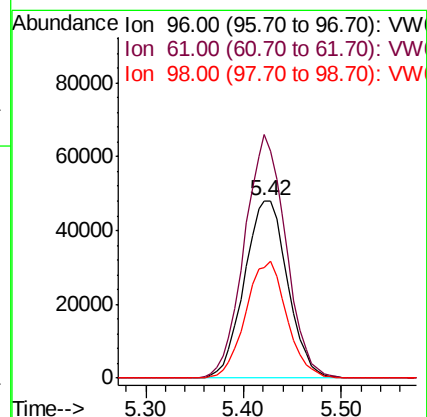
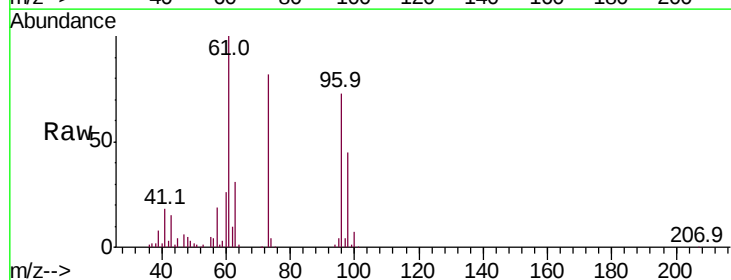
Instrument :
MSVOA_W
ClientSampleId :

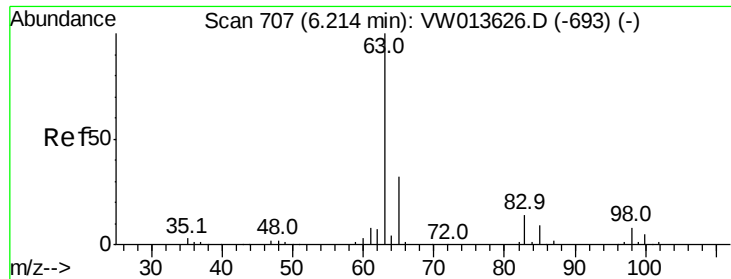
Tot Ion: 73 Resp: 189859
Ion Ratio Lower Upper
73 100
43 19.0 15.4 23.2
57 22.2 17.7 26.5



#18
trans-1,2-Dichloroethene
Concen: 25.404 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion: 96 Resp: 148014
Ion Ratio Lower Upper
96 100
61 137.3 88.4 164.2
98 62.2 43.0 79.8



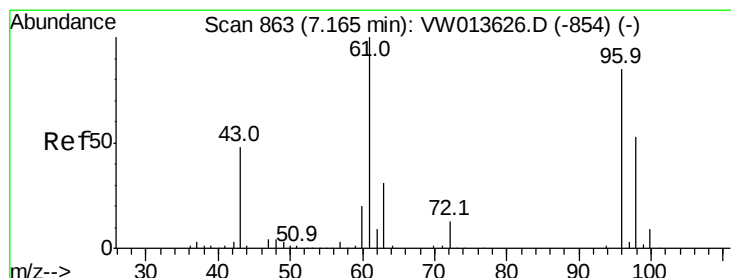
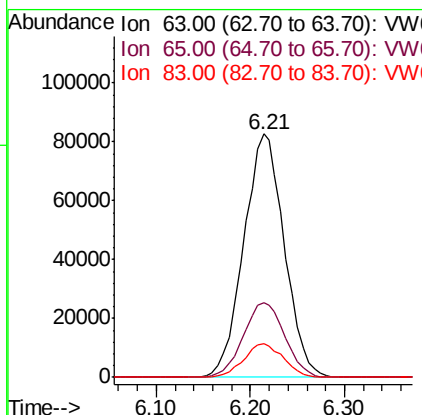
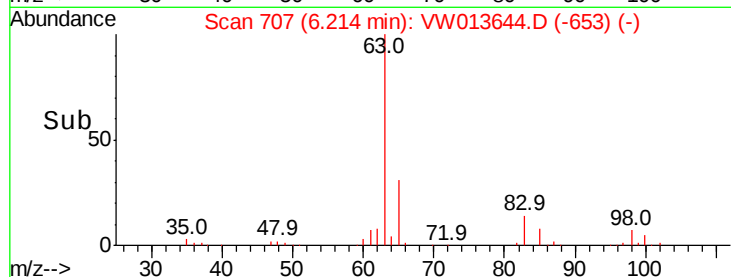
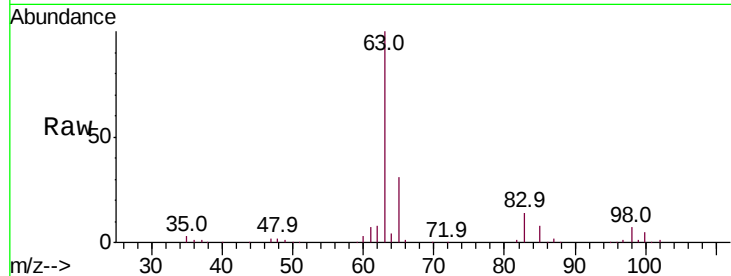


#19
 1,1-Dichloroethane
 Concen: 25.245 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 63 Resp: 248970

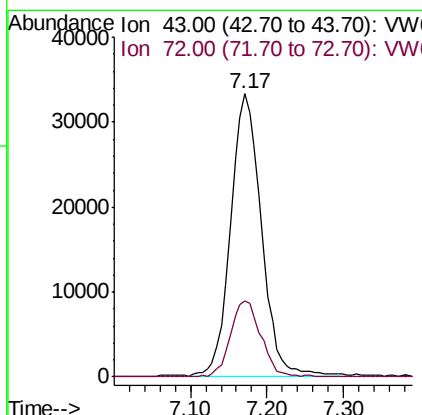
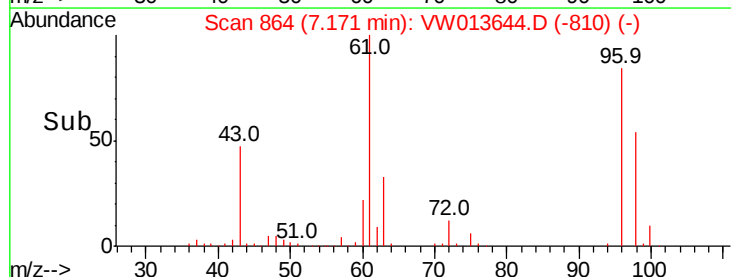
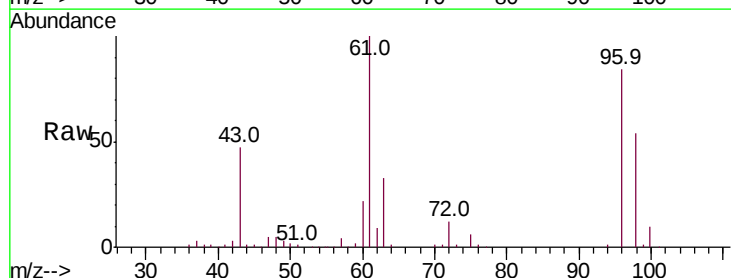
Ion	Ratio	Lower	Upper
63	100		
65	30.8	20.9	38.7
83	13.8	9.2	17.2

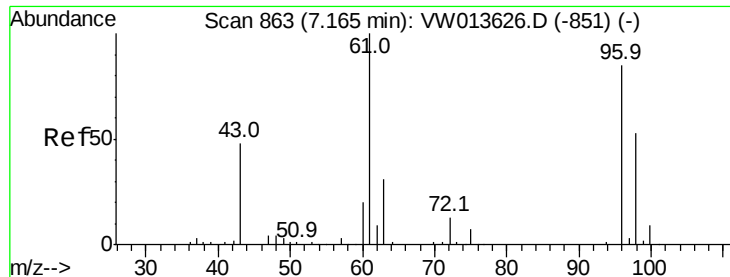


#21
 2-Butanone
 Concen: 45.551 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion: 43 Resp: 93417

Ion	Ratio	Lower	Upper
43	100		
72	26.4	13.7	41.1



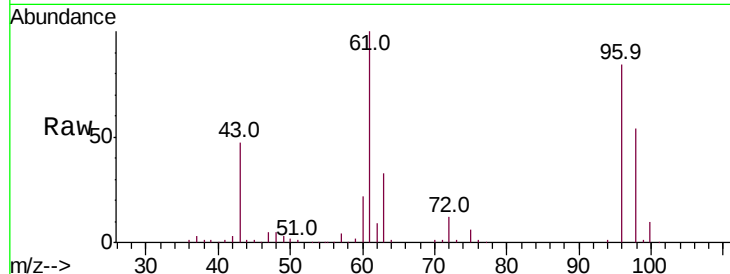


#22

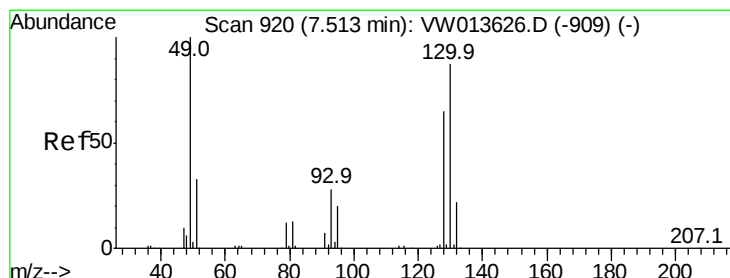
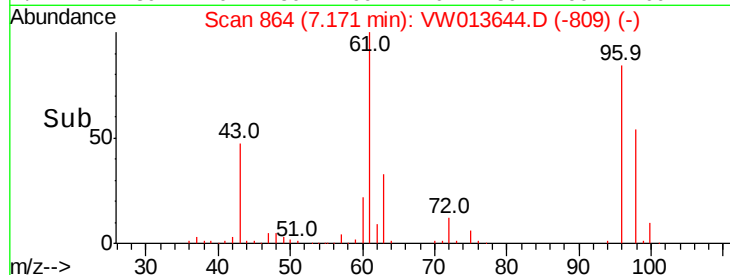
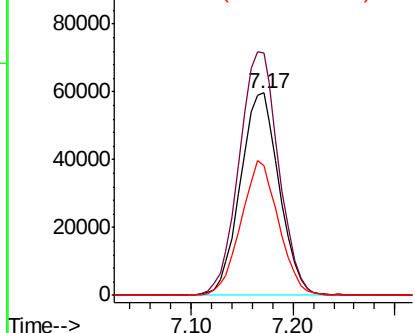
cis-1,2-Dichloroethene
Concen: 25.282 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 96 Resp: 158111
Ion Ratio Lower Upper
96 100
61 119.7 86.2 160.0
98 64.2 43.0 79.8



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

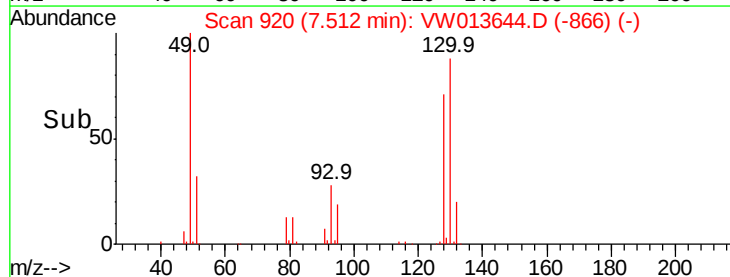
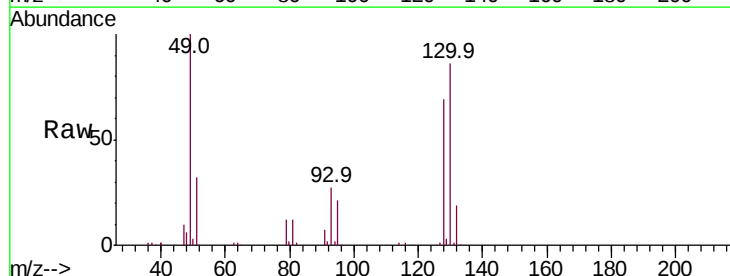
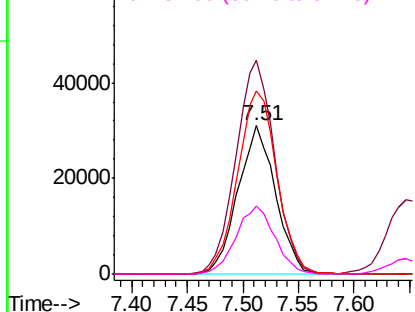


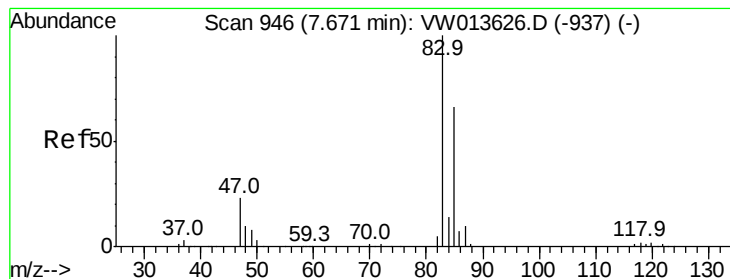
#23

Bromochloromethane
Concen: 25.768 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion: 128 Resp: 72839
Ion Ratio Lower Upper
128 100
49 144.2 106.3 197.3
130 123.8 93.2 173.2
51 46.0 37.4 56.0

Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 25.464 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

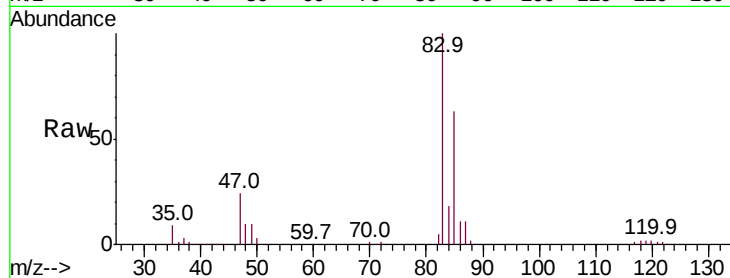
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 83 Resp: 252262

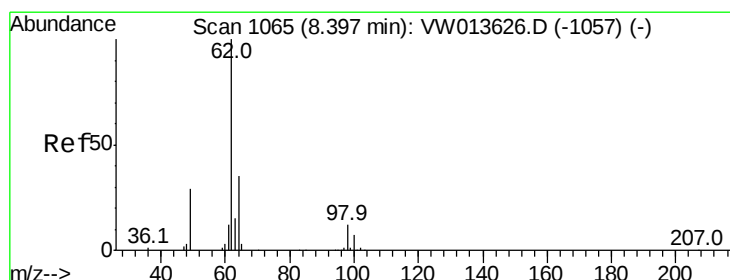
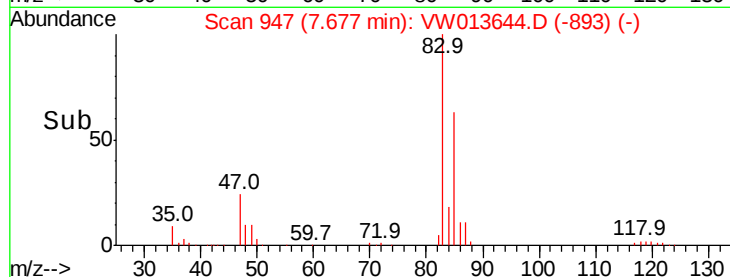
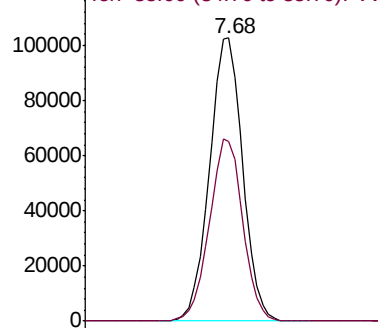
Ion Ratio Lower Upper

83 100

85 65.1 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: 25.712 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW013644.D

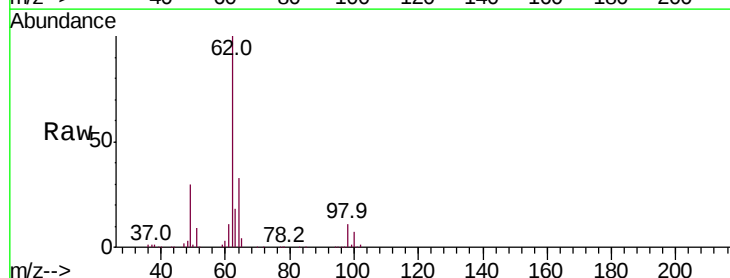
Acq: 21 Oct 2019 19:04

Tgt Ion: 62 Resp: 163257

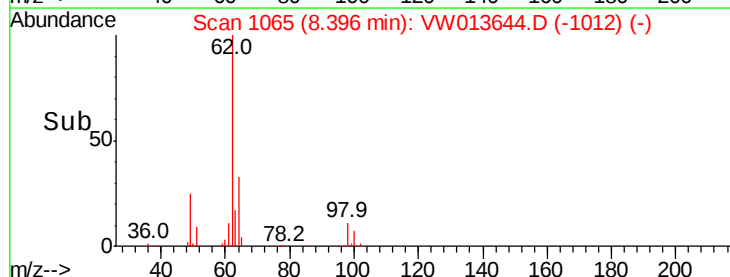
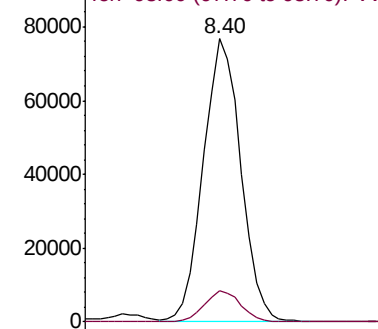
Ion Ratio Lower Upper

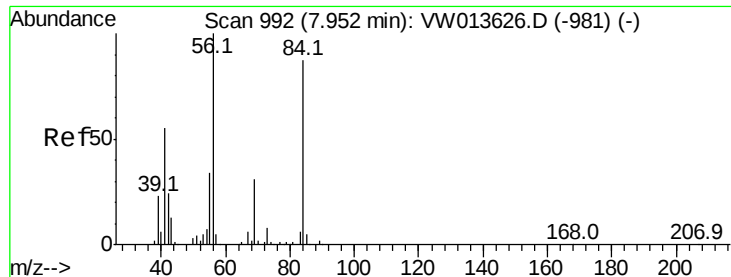
62 100

98 10.9 9.6 14.4



Abundance Ion 62.00 (61.70 to 62.70): VW
Ion 98.00 (97.70 to 98.70): VW

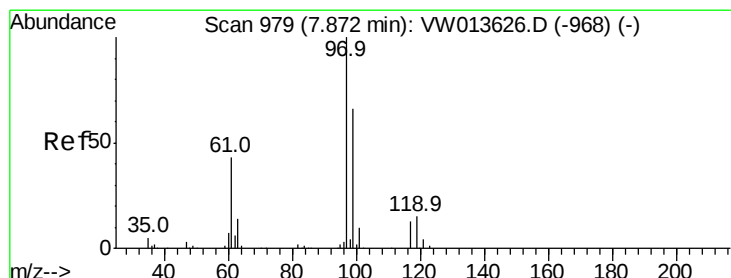
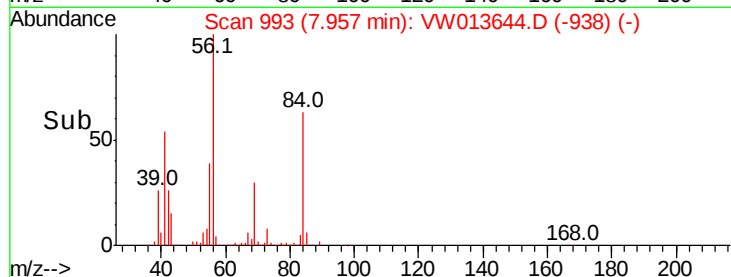
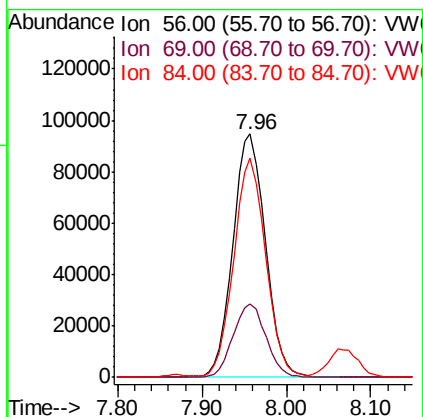
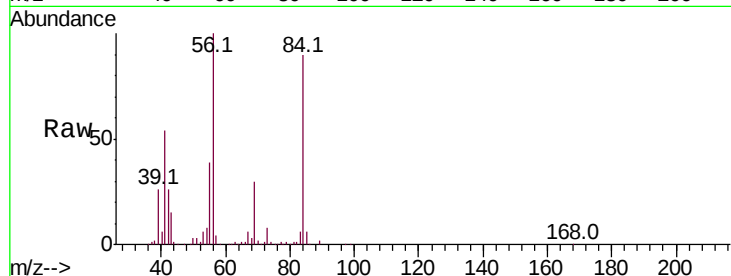




#30
Cyclohexane
Concen: 26.196 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

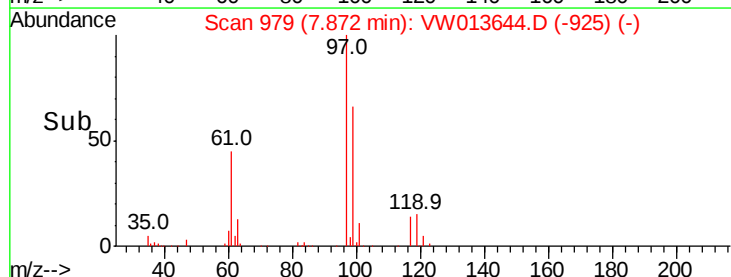
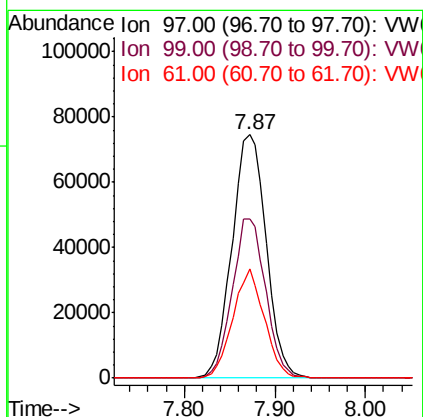
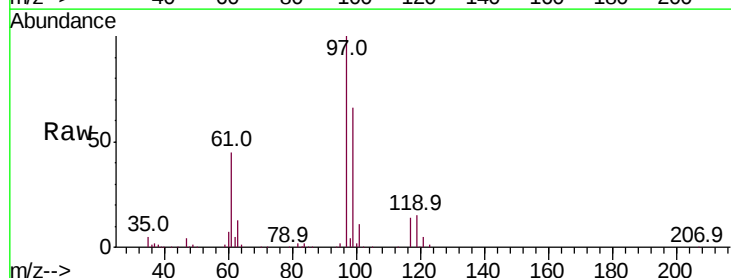
Instrument :
MSVOA_W
ClientSampleId :

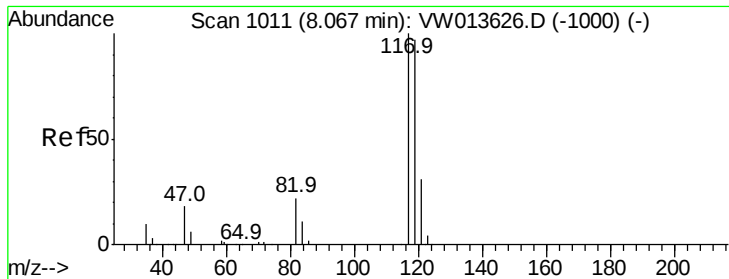
Tot Ion: 56 Resp: 247440
Ion Ratio Lower Upper
56 100
69 30.3 24.6 37.0
84 88.5 71.1 106.7



#31
1,1,1-Trichloroethane
Concen: 25.978 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion: 97 Resp: 195352
Ion Ratio Lower Upper
97 100
99 63.9 51.7 77.5
61 41.5 33.8 50.8





#32

Carbon tetrachloride

Concen: 25.707 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

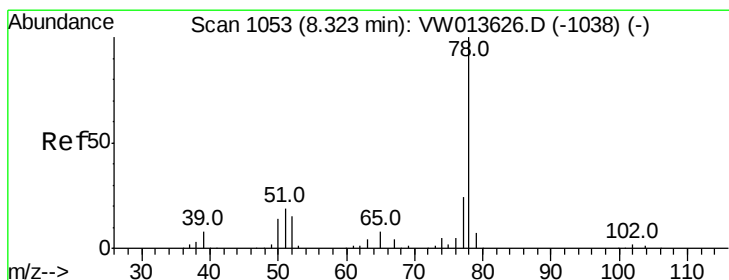
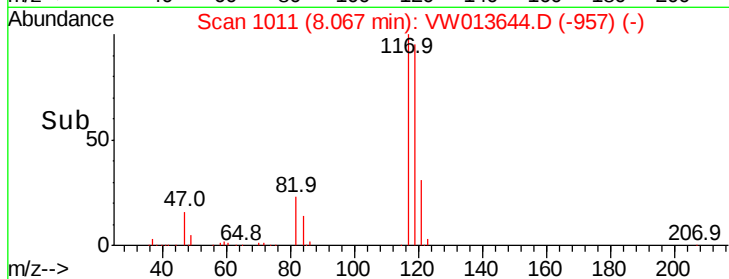
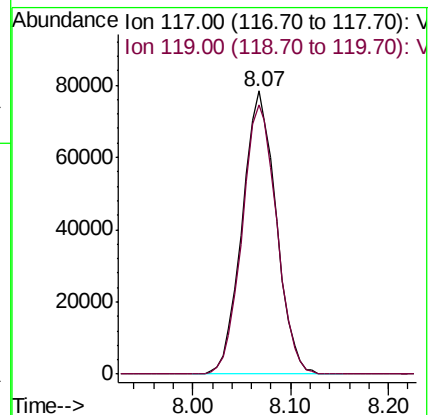
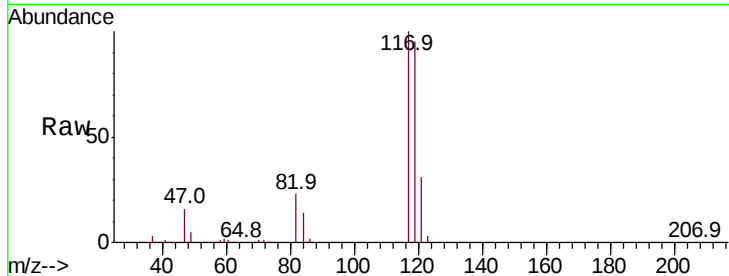
ClientSampled :

Tot Ion:117 Resp: 188242

Ion Ratio Lower Upper

117 100

119 96.5 76.1 114.1



#34

Benzene

Concen: 25.494 ug/L

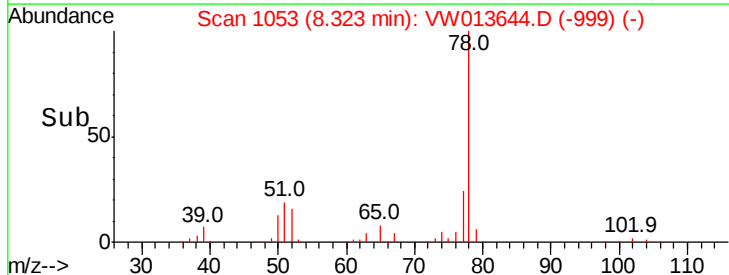
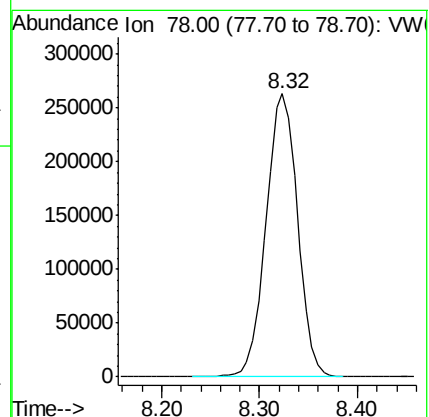
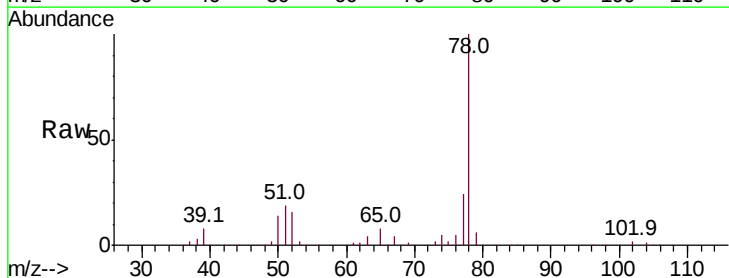
RT: 8.32 min Scan# 1053

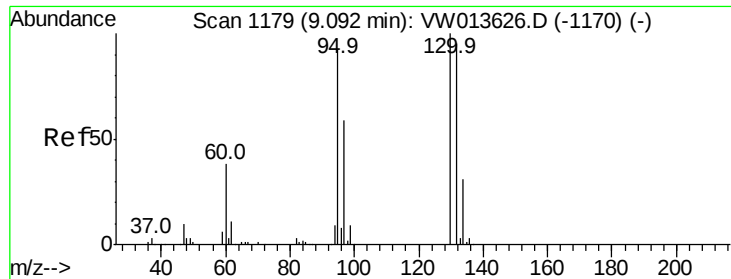
Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Tgt Ion: 78 Resp: 589776

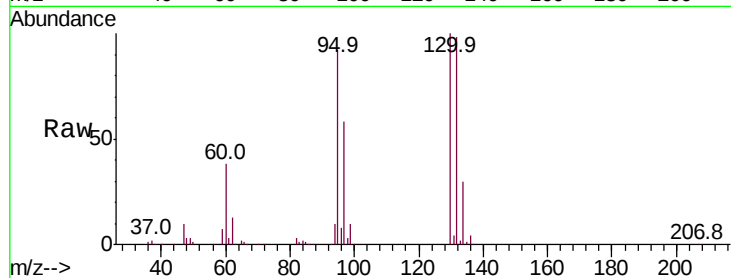




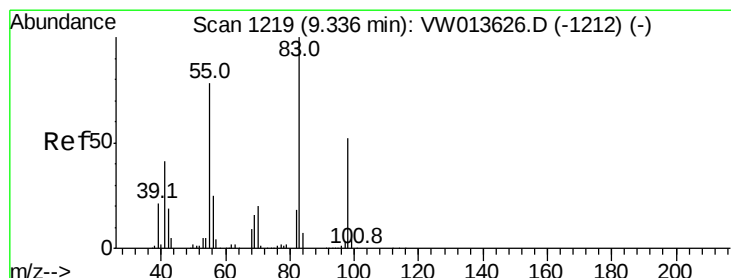
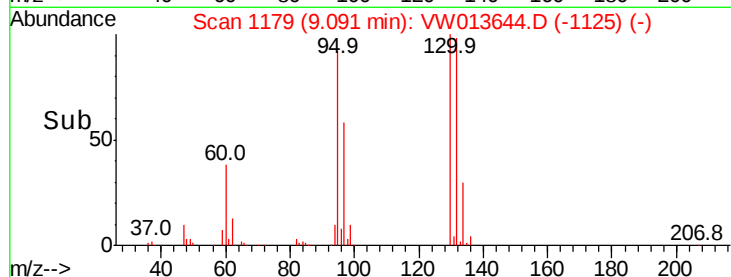
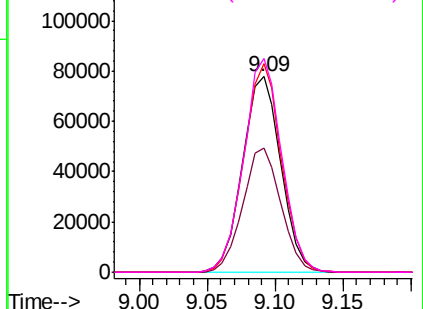
#35
 Trichloroethene
 Concen: 25.844 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion: 95 Resp: 153396
 Ion Ratio Lower Upper
 95 100
 97 63.3 45.8 85.2
 132 104.8 74.3 138.1
 130 108.3 76.6 142.3

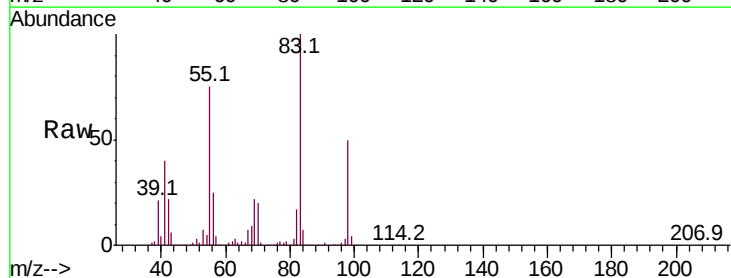


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

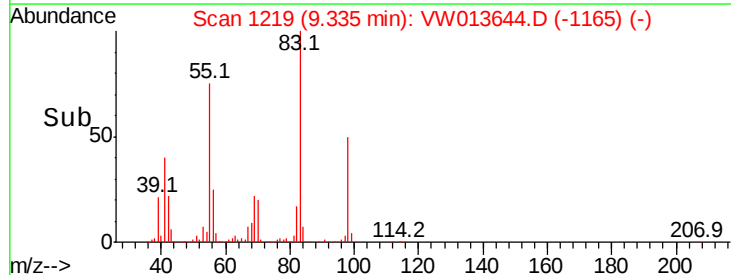
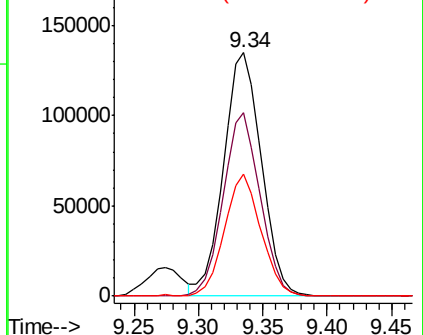


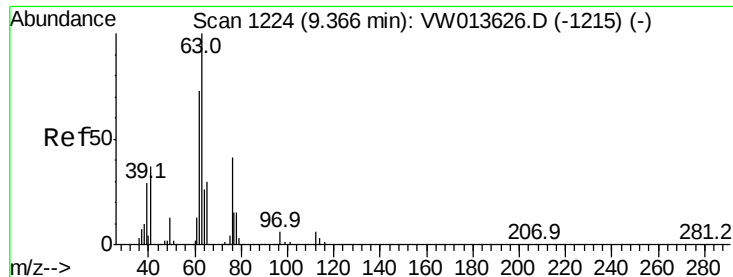
#36
 Methylcyclohexane
 Concen: 26.411 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion: 83 Resp: 276301
 Ion Ratio Lower Upper
 83 100
 55 73.4 60.2 90.4
 98 48.2 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: 25.329 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

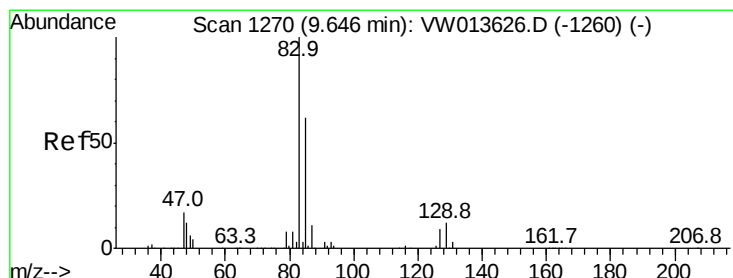
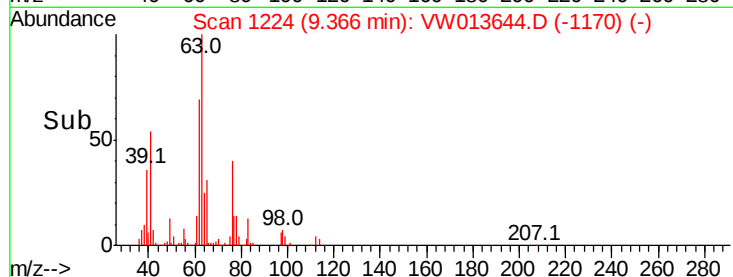
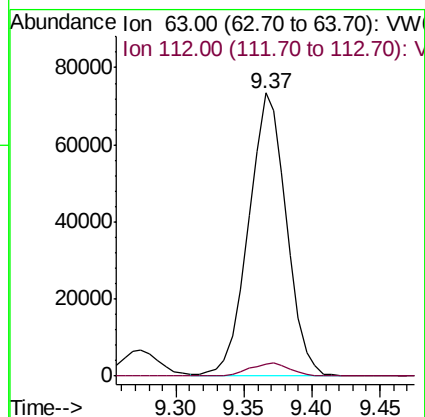
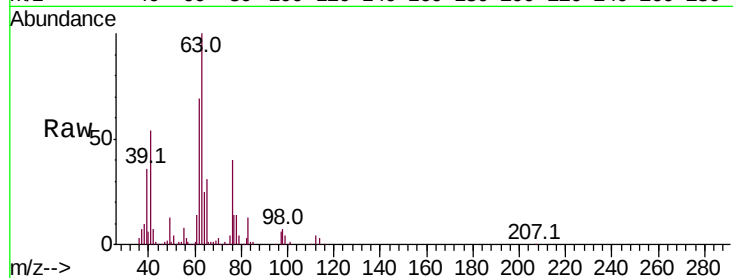
ClientSampleId :

Tot Ion: 63 Resp: 143269

Ion Ratio Lower Upper

63 100

112 5.1 3.9 5.9



#41

Bromodichloromethane

Concen: 25.912 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

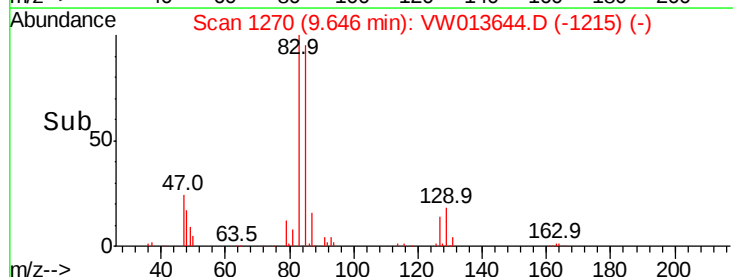
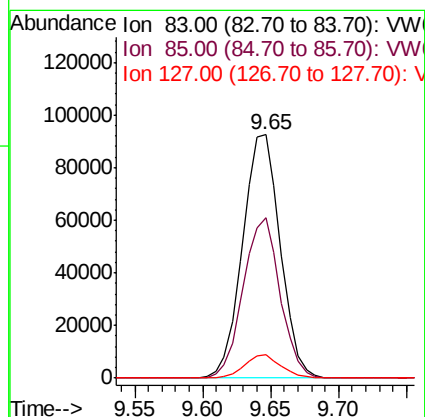
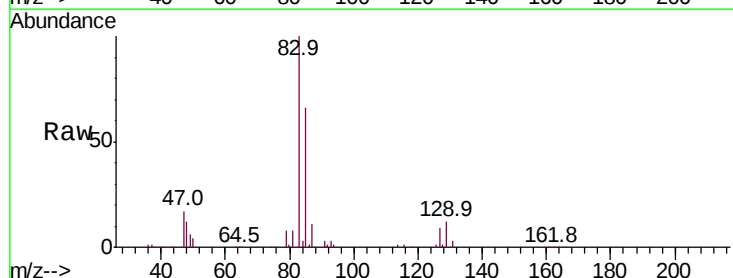
Tgt Ion: 83 Resp: 179591

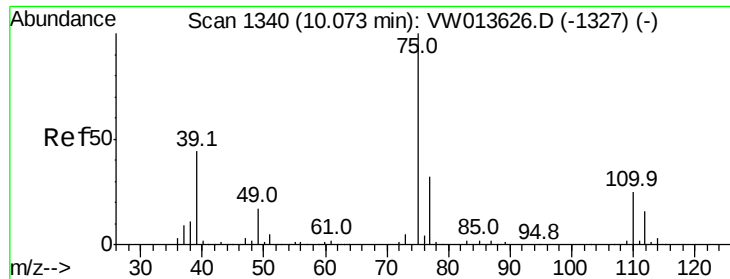
Ion Ratio Lower Upper

83 100

85 65.7 45.8 85.0

127 9.5 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 26.090 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

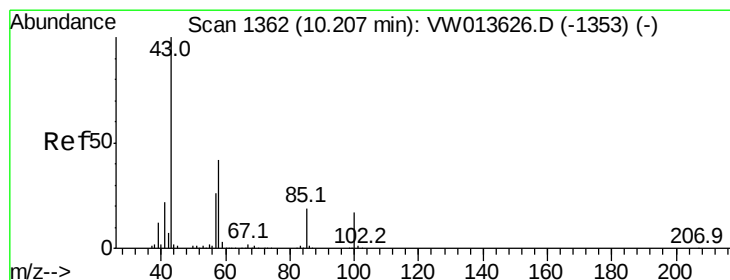
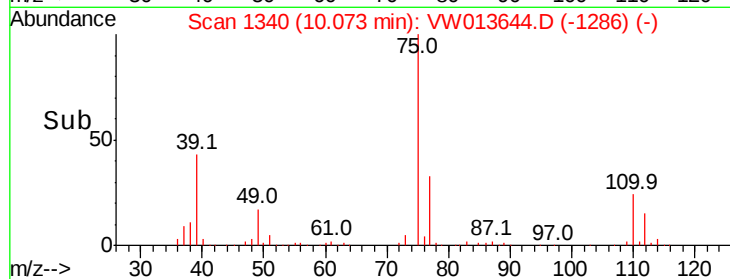
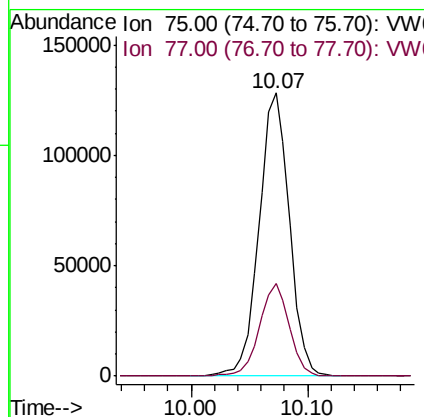
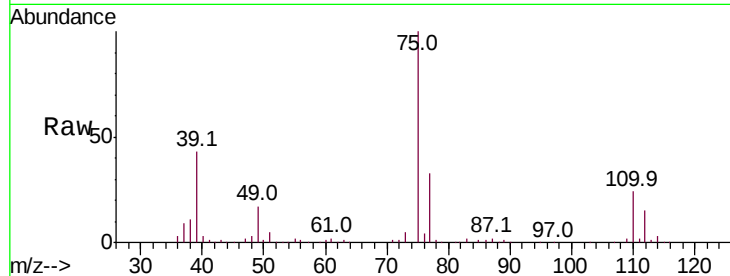
ClientSampleId :

Tot Ion: 75 Resp: 232992

Ion Ratio Lower Upper

75 100

77 32.7 22.5 41.9



#43

4-Methyl-2-pentanone

Concen: 50.411 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

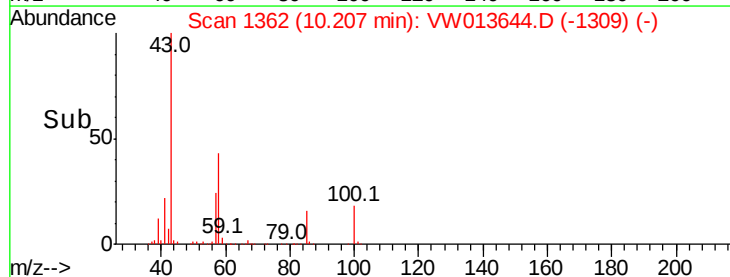
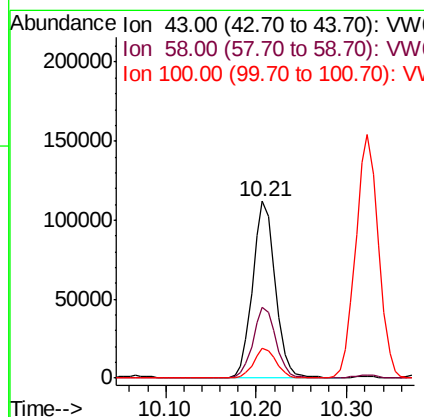
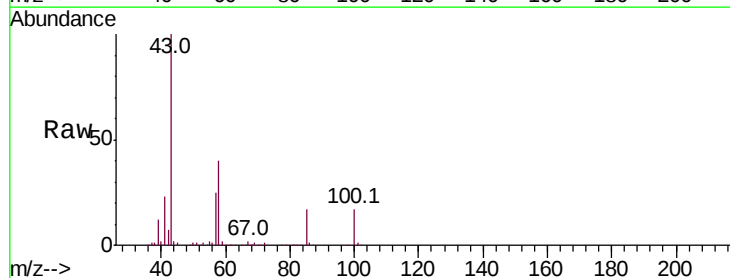
Tgt Ion: 43 Resp: 194544

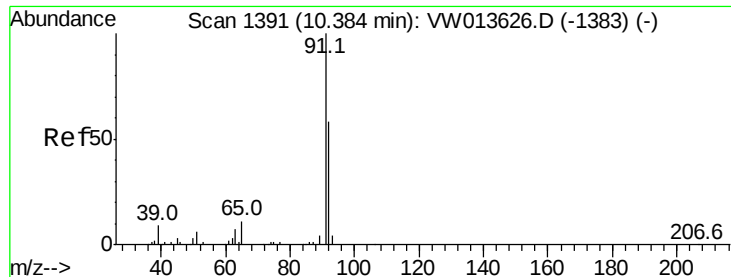
Ion Ratio Lower Upper

43 100

58 40.0 32.8 49.2

100 16.8 13.7 20.5





#44

Toluene

Concen: 25.758 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

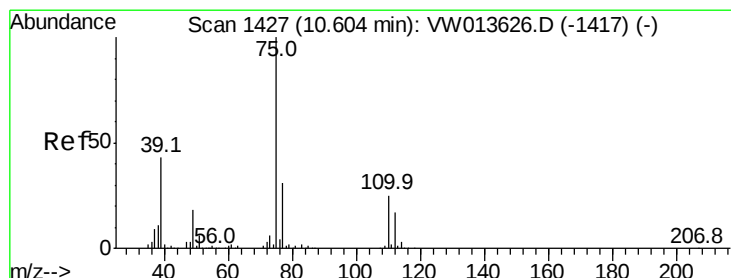
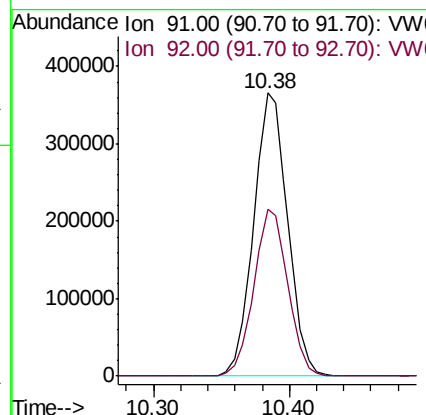
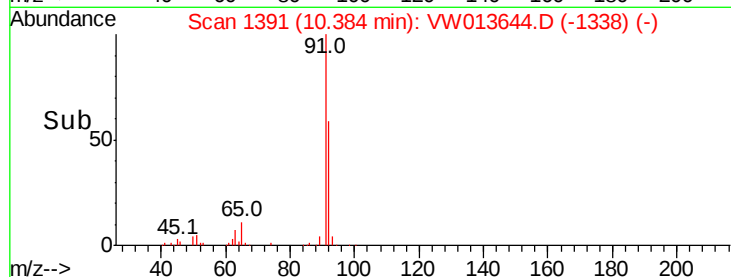
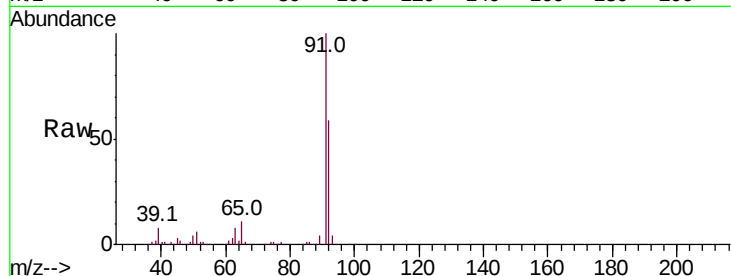
ClientSampled :

Tot Ion: 91 Resp: 640214

Ion Ratio Lower Upper

91 100

92 58.9 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 25.690 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013644.D

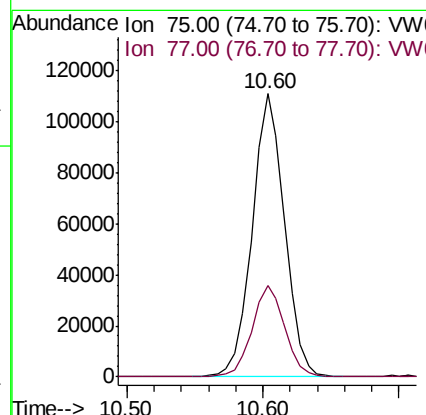
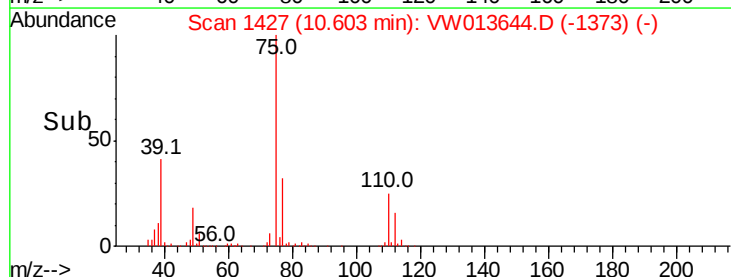
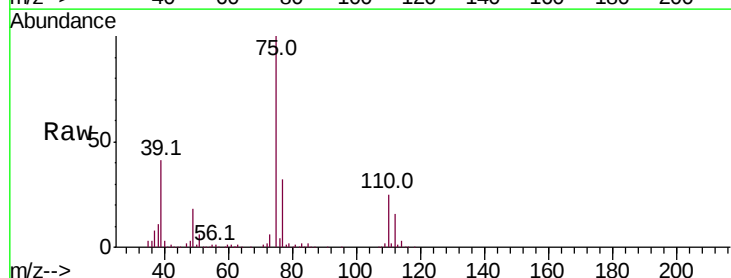
Acq: 21 Oct 2019 19:04

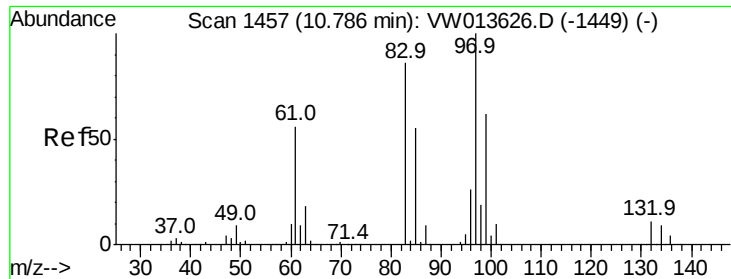
Tgt Ion: 75 Resp: 185193

Ion Ratio Lower Upper

75 100

77 32.3 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 25.369 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 110669

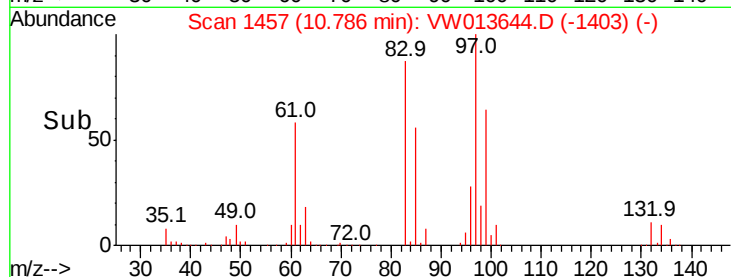
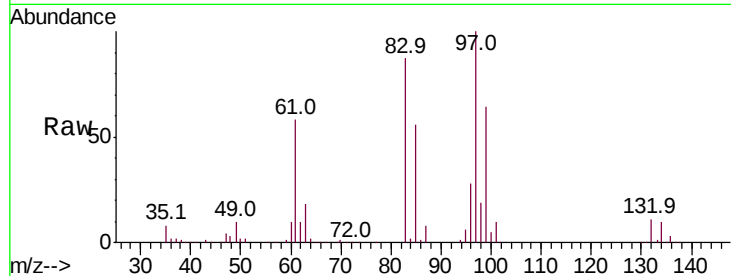
Ion	Ratio	Lower	Upper
97	100		
83	87.0	57.7	107.3
85	56.4	38.6	71.6
99	64.0	44.7	82.9

97 100

83 87.0 57.7 107.3

85 56.4 38.6 71.6

99 64.0 44.7 82.9



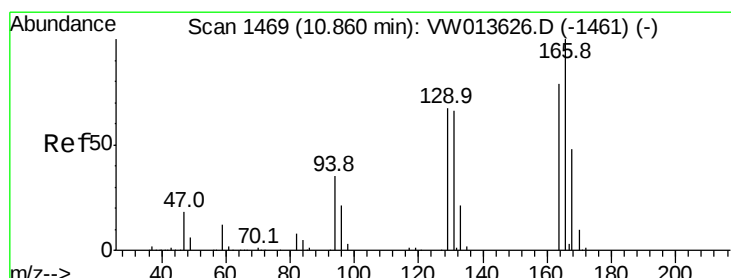
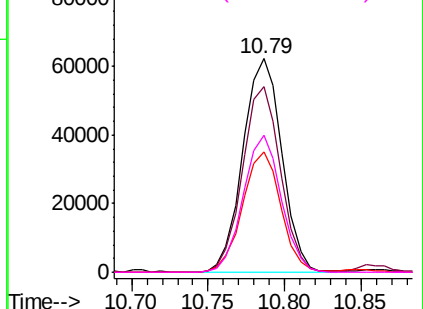
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 25.645 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Tgt Ion: 164 Resp: 139329

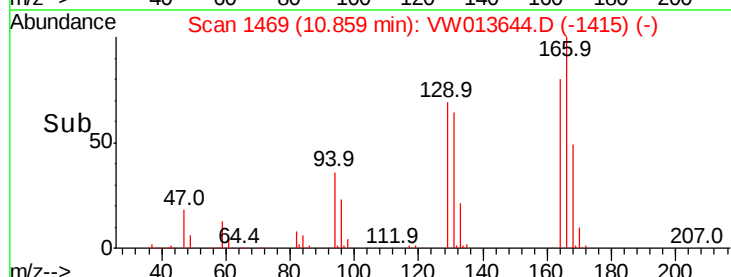
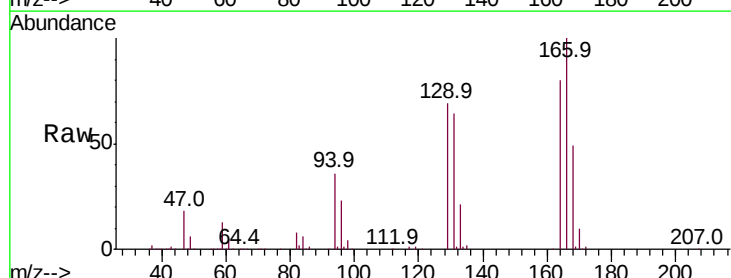
Ion	Ratio	Lower	Upper
164	100		
129	86.5	61.8	114.8
131	80.3	59.2	110.0
166	125.4	89.2	165.8

164 100

129 86.5 61.8 114.8

131 80.3 59.2 110.0

166 125.4 89.2 165.8



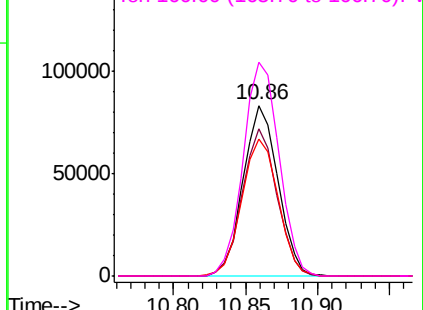
Abundance

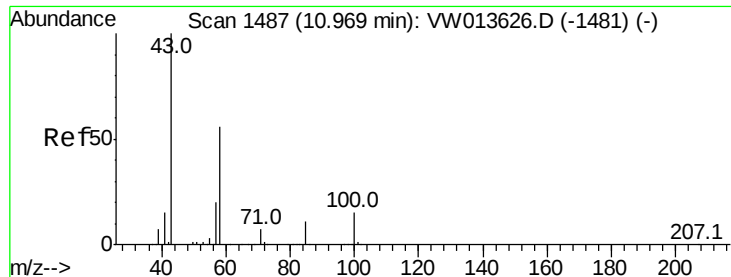
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

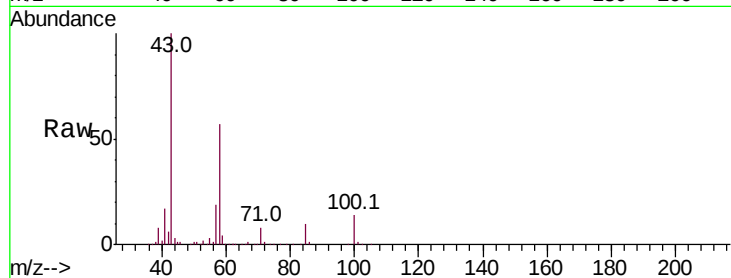




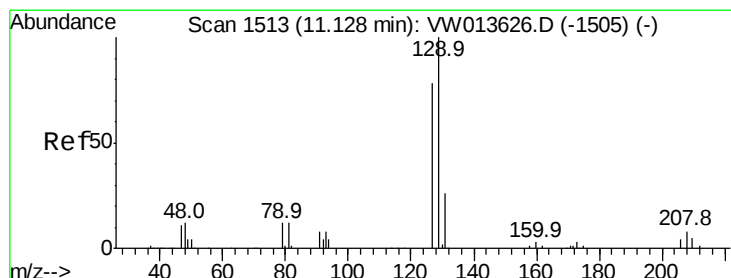
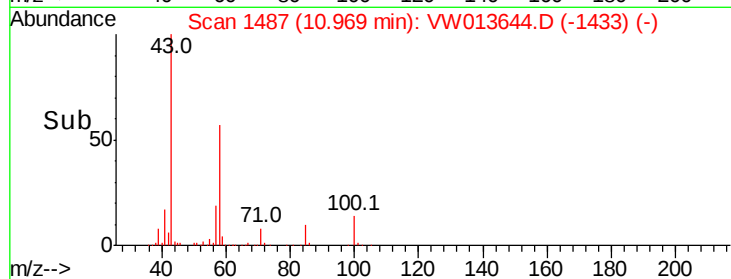
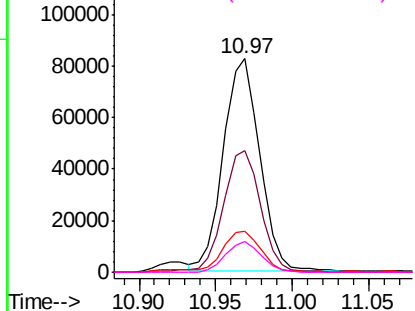
#49
2-Hexanone
Concen: 50.081 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 137113
Ion Ratio Lower Upper
43 100
58 58.6 45.8 68.6
57 19.9 15.4 23.2
100 14.2 10.8 16.2

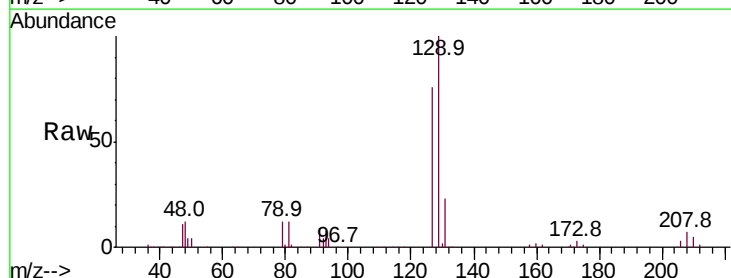


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

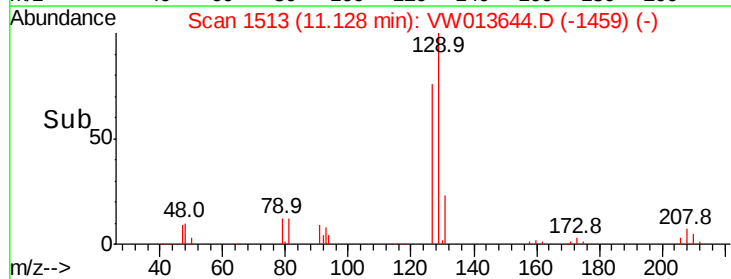
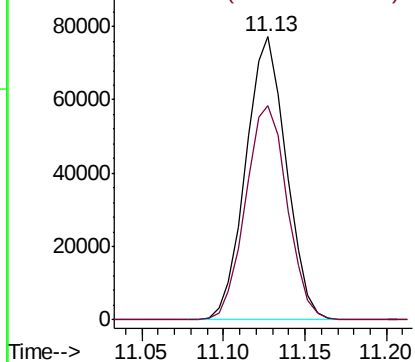


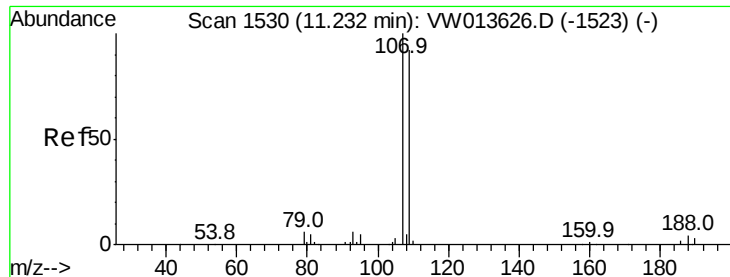
#50
Dibromochloromethane
Concen: 25.980 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion: 129 Resp: 133755
Ion Ratio Lower Upper
129 100
127 75.6 51.4 95.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

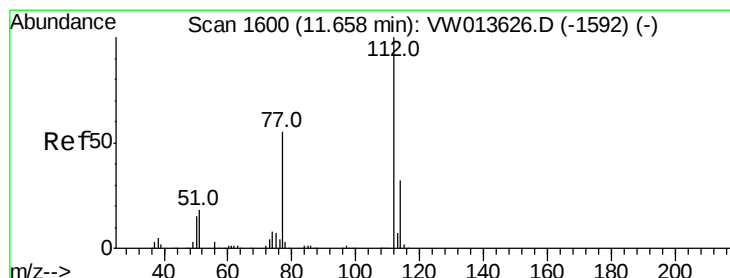
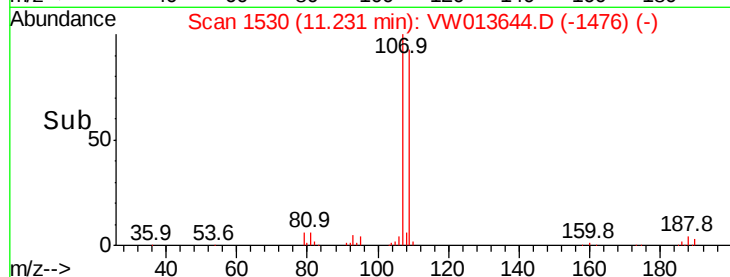
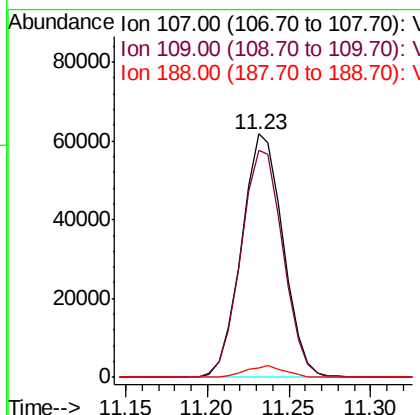
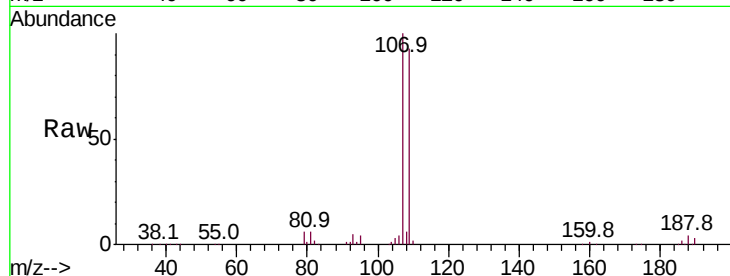




#51
 1,2-Dibromoethane
 Concen: 25.799 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

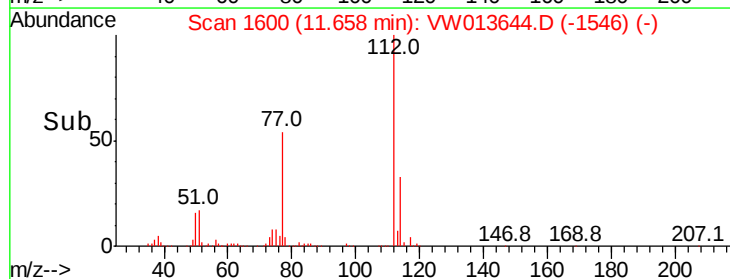
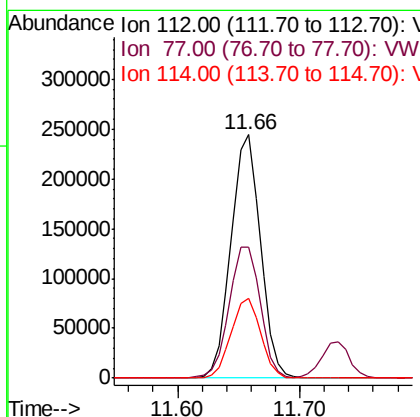
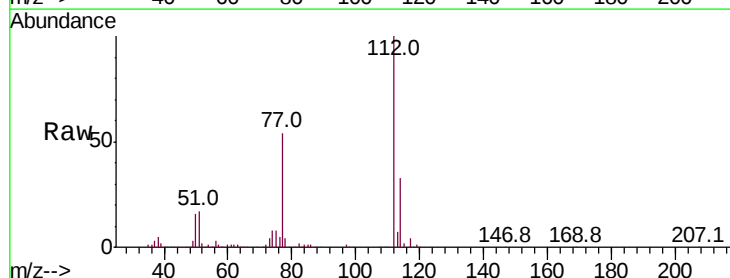
Instrument :
 MSVOA_W
 ClientSampleId :

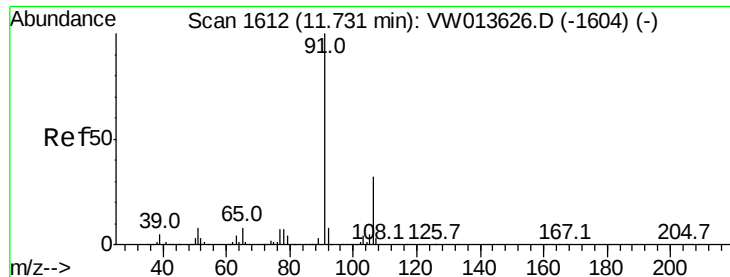
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.0	64.0	118.8
188	3.8	3.4	5.2



#52
 Chlorobenzene
 Concen: 25.583 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion	Ratio	Lower	Upper
112	100		
77	53.9	44.1	66.1
114	32.9	23.4	43.4





#53

Ethylbenzene

Concen: 25.919 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

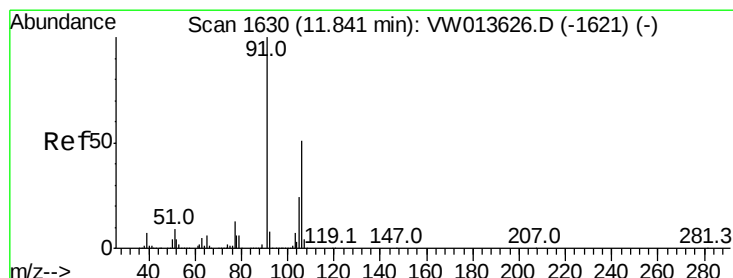
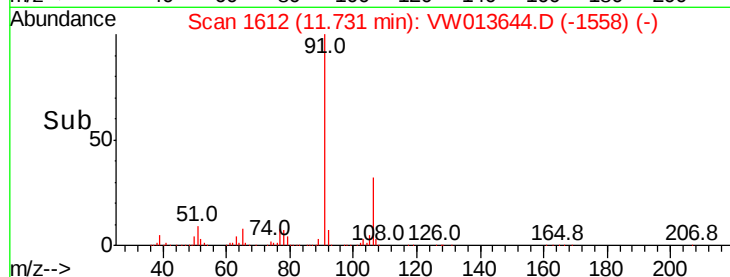
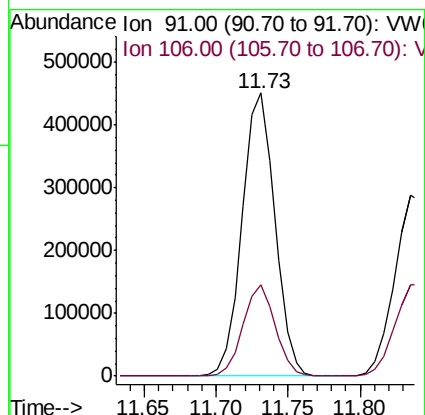
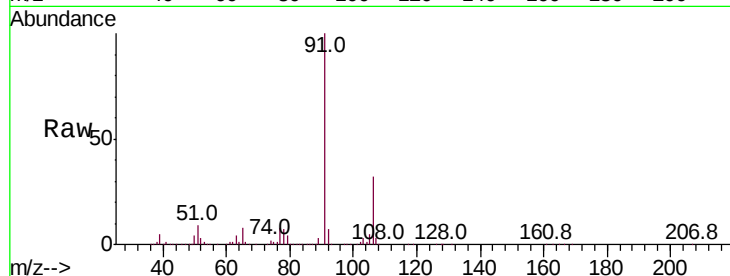
ClientSampleId :

Tot Ion: 91 Resp: 711770

Ion Ratio Lower Upper

91 100

106 32.4 22.3 41.3



#54

m,p-Xylene

Concen: 26.049 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW013644.D

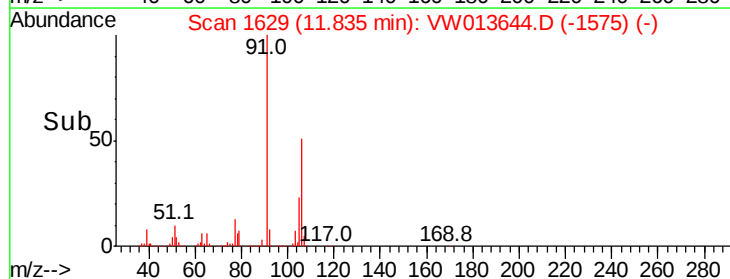
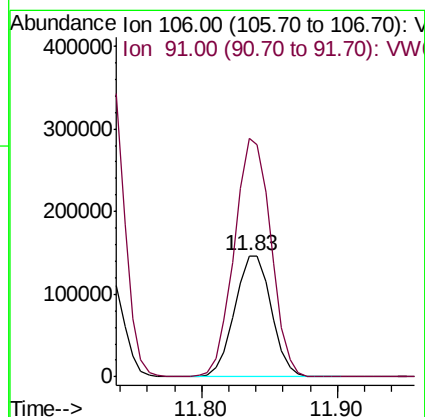
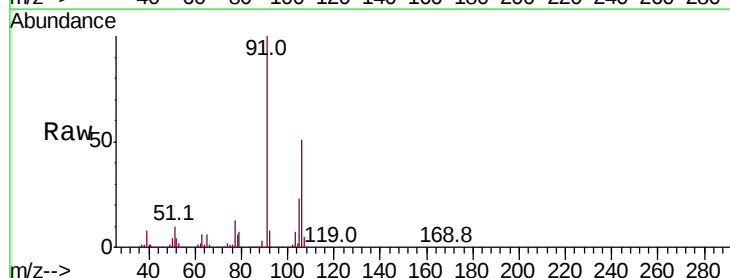
Acq: 21 Oct 2019 19:04

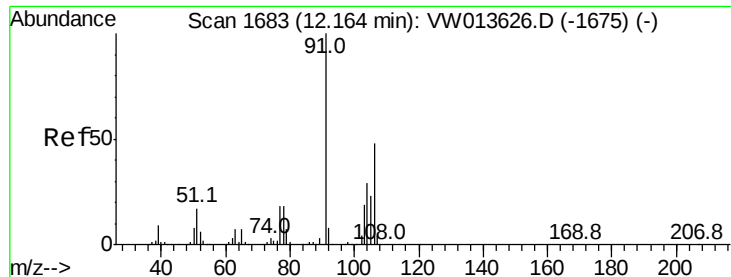
Tgt Ion: 106 Resp: 276430

Ion Ratio Lower Upper

106 100

91 196.8 137.7 255.7





#55

o-xylene

Concen: 26.378 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

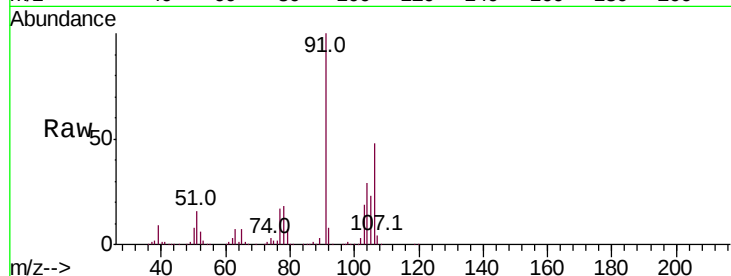
ClientSampleId :

Tot Ion:106 Resp: 265639

Ion Ratio Lower Upper

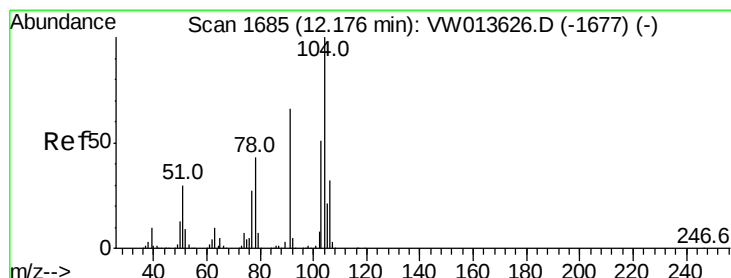
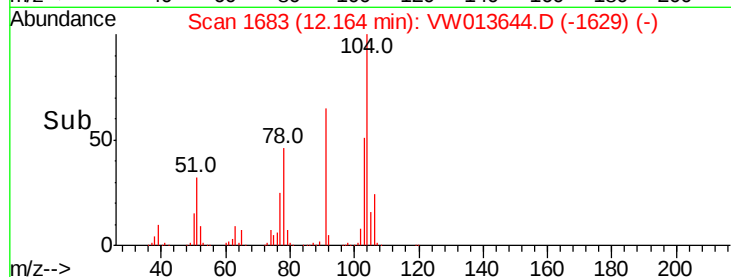
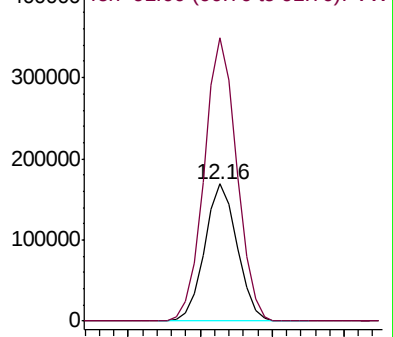
106 100

91 206.8 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 26.285 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW013644.D

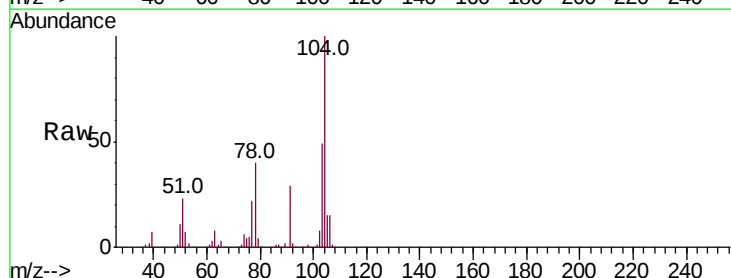
Acq: 21 Oct 2019 19:04

Tgt Ion:104 Resp: 452824

Ion Ratio Lower Upper

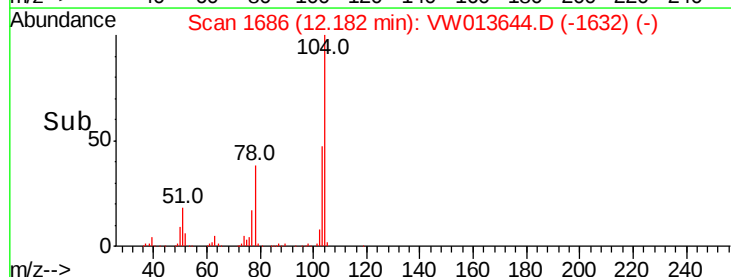
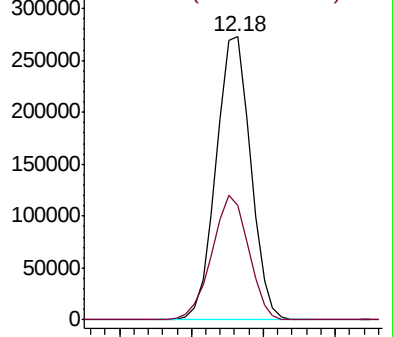
104 100

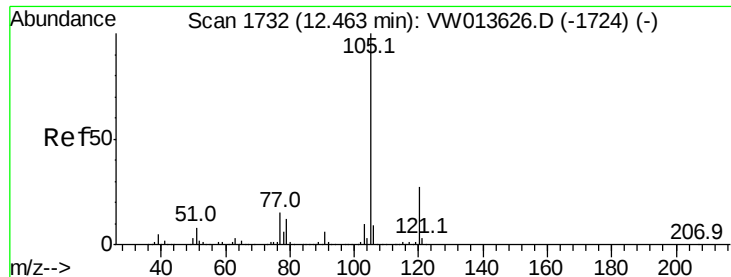
78 40.4 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.345 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

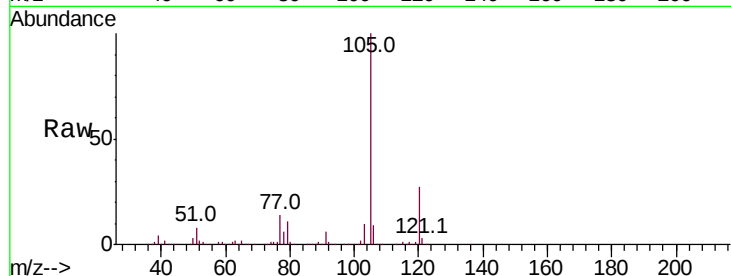
Tot Ion:105 Resp: 711644

Ion Ratio Lower Upper

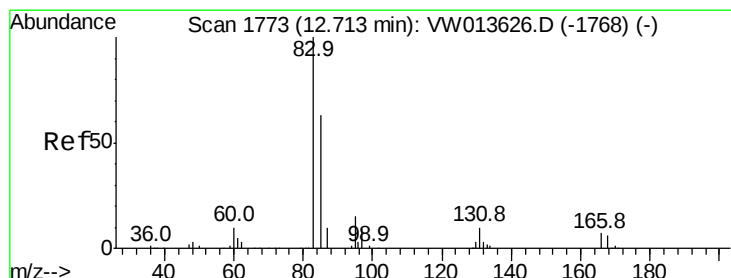
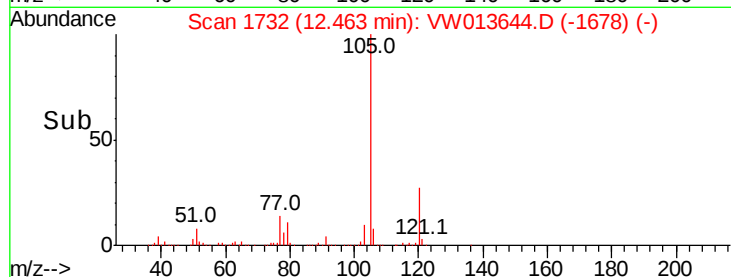
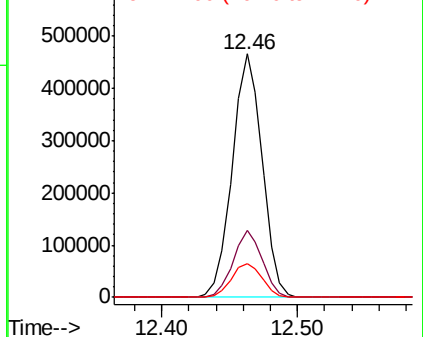
105 100

120 26.9 21.4 32.2

77 14.3 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: 26.070 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

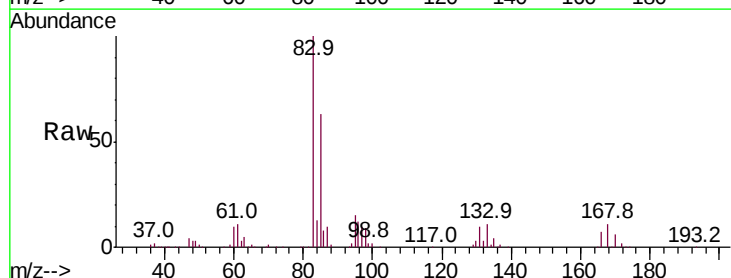
Tgt Ion: 83 Resp: 133297

Ion Ratio Lower Upper

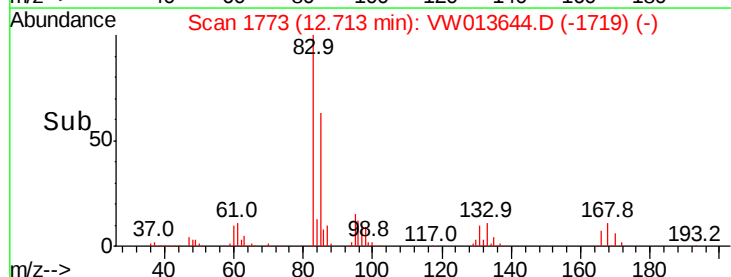
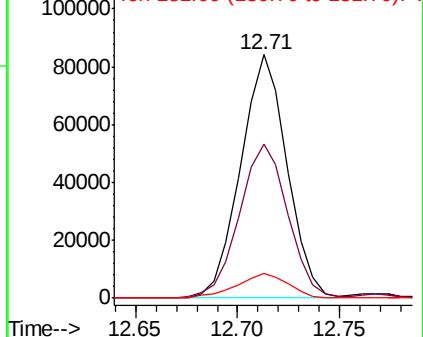
83 100

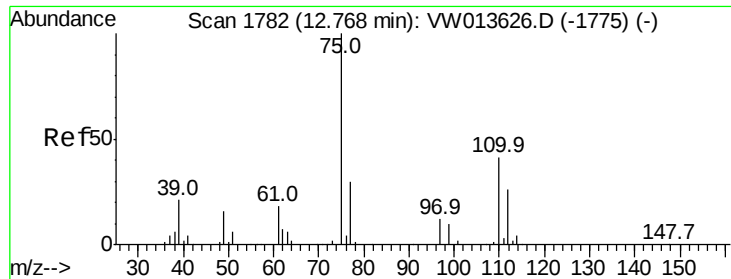
85 63.4 44.9 83.3

131 9.9 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

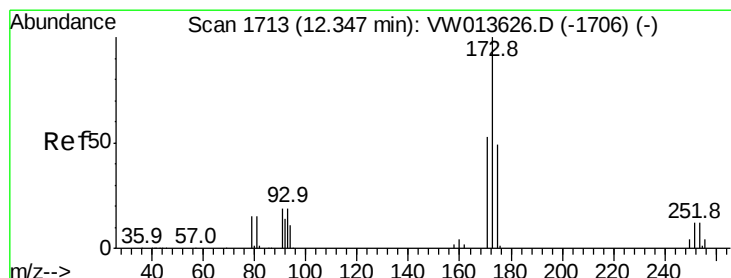
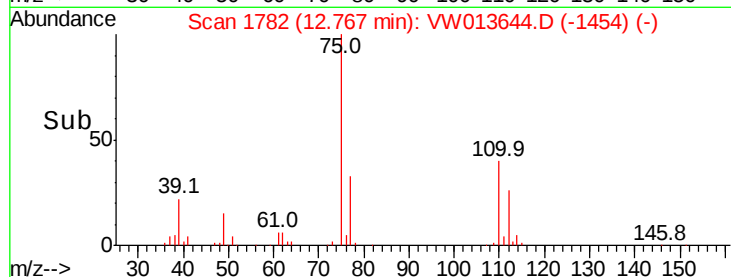
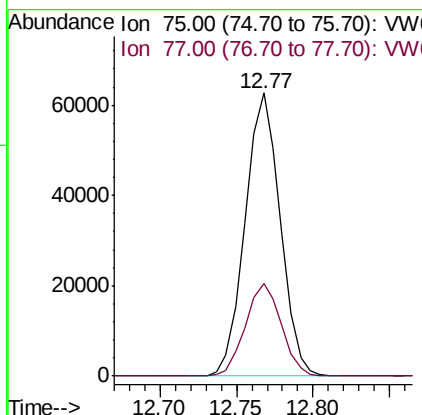
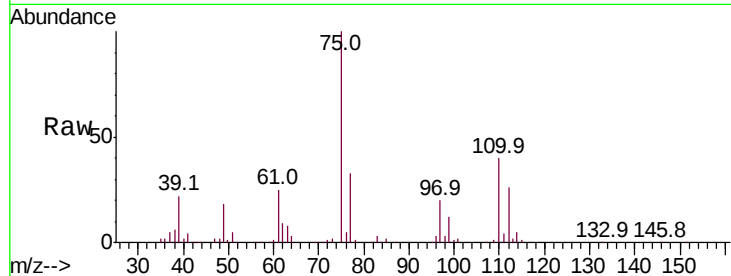




#59
 1,2,3-Trichloropropane
 Concen: 26.235 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

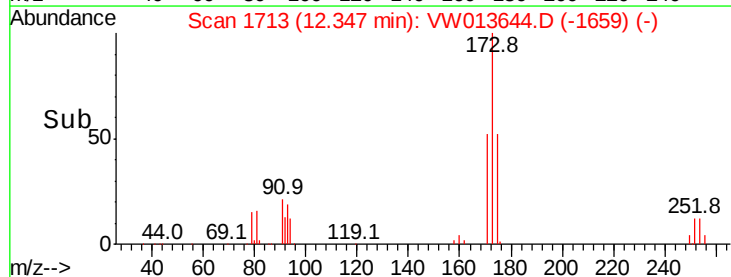
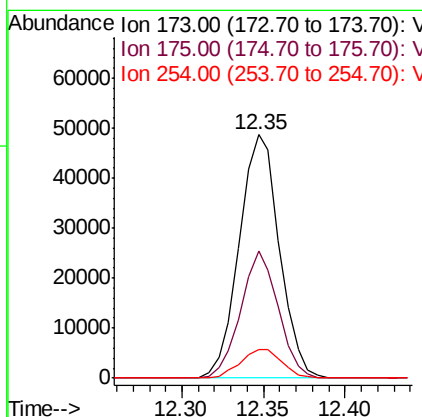
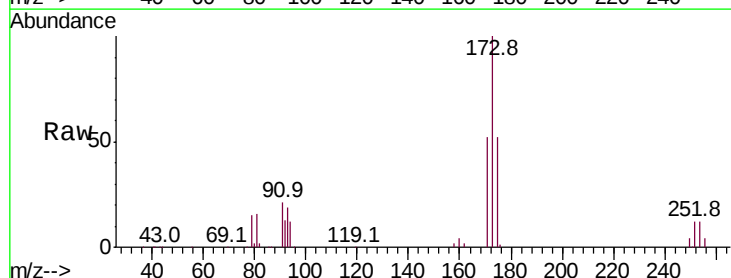
Instrument :
 MSVOA_W
 ClientSampleId :

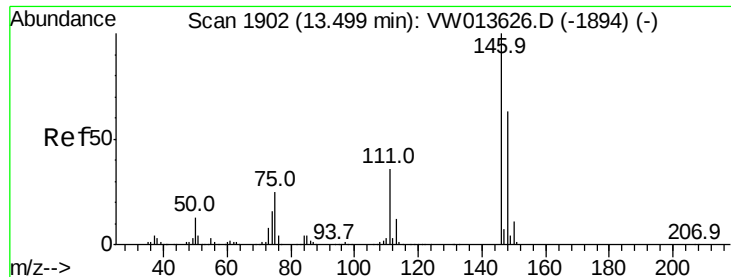
Tot Ion: 75 Resp: 100029
 Ion Ratio Lower Upper
 75 100
 77 33.3 26.4 39.6



#62
 Bromoform
 Concen: 24.561 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion:173 Resp: 83419
 Ion Ratio Lower Upper
 173 100
 175 48.9 39.1 58.7
 254 12.1 9.6 14.4

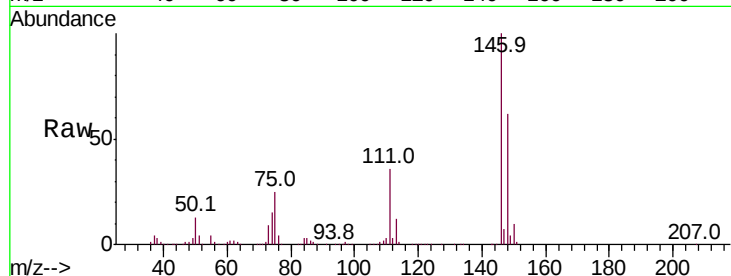




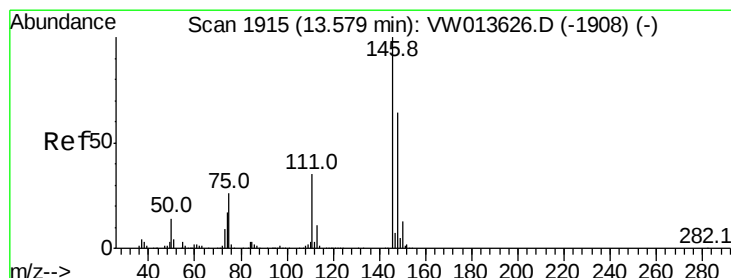
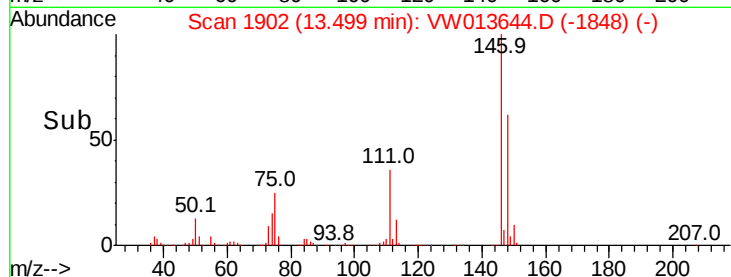
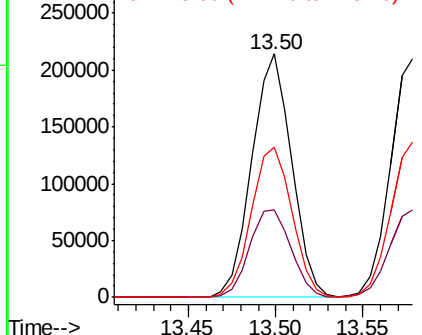
#63
 1,3-Dichlorobenzene
 Concen: 25.254 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:146 Resp: 339600
 Ion Ratio Lower Upper
 146 100
 111 35.8 26.1 48.5
 148 61.6 45.8 85.2

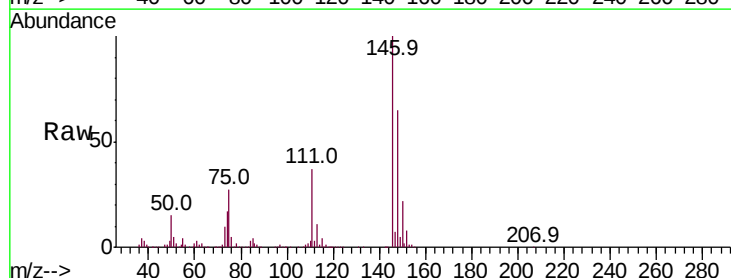


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

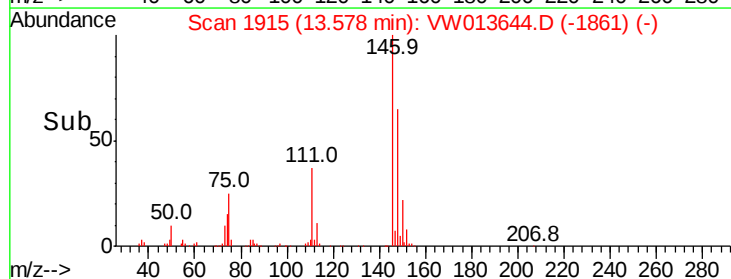
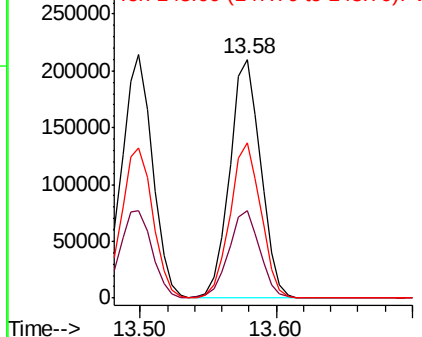


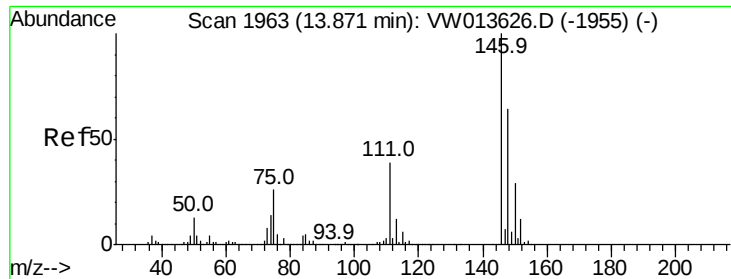
#64
 1,4-Dichlorobenzene
 Concen: 24.591 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion:146 Resp: 332299
 Ion Ratio Lower Upper
 146 100
 111 36.9 24.8 46.0
 148 64.9 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: 25.274 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

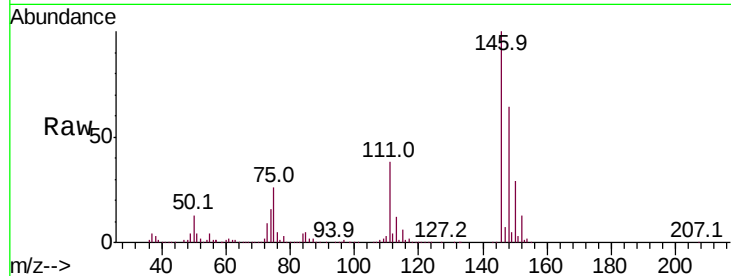
Tot Ion:146 Resp: 307943

Ion Ratio Lower Upper

146 100

111 38.2 30.7 46.1

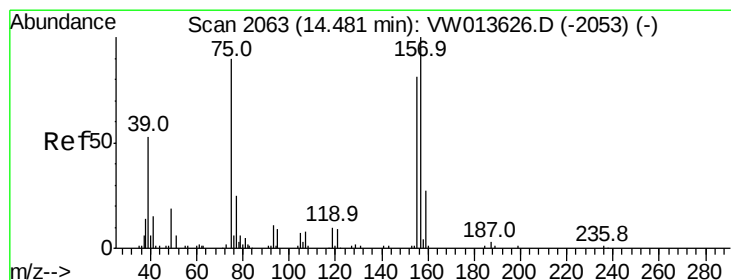
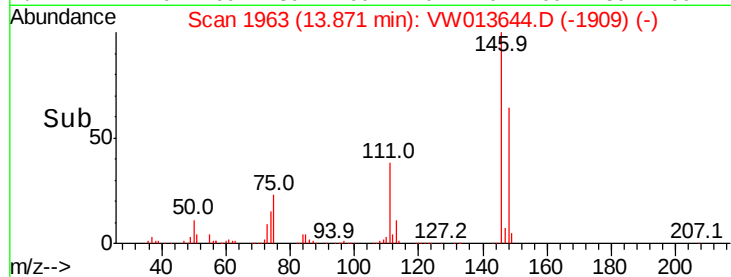
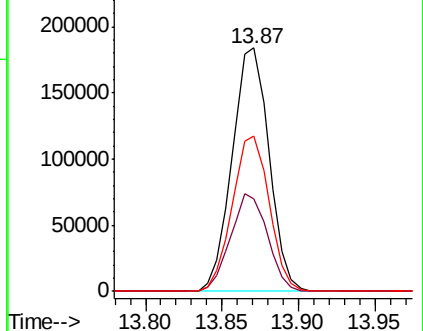
148 63.8 53.3 79.9



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: 24.872 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

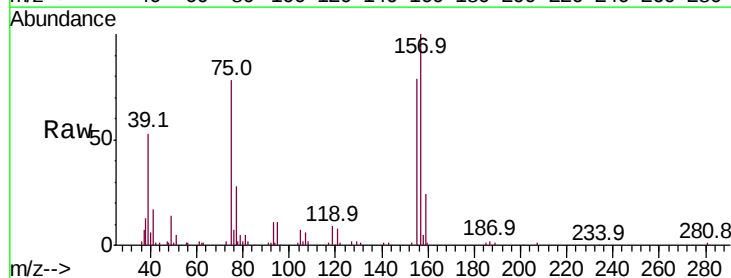
Tgt Ion: 75 Resp: 20830

Ion Ratio Lower Upper

75 100

157 128.0 99.4 149.0

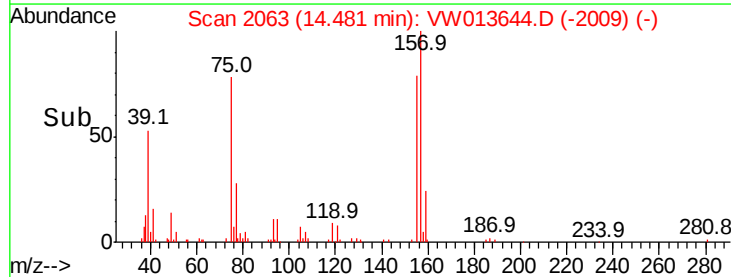
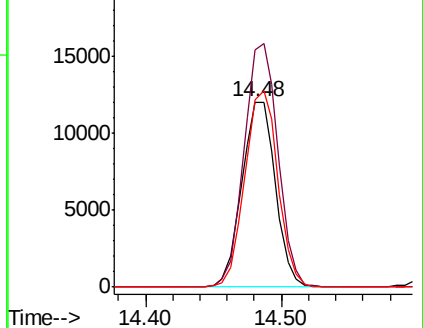
155 100.7 69.7 104.5

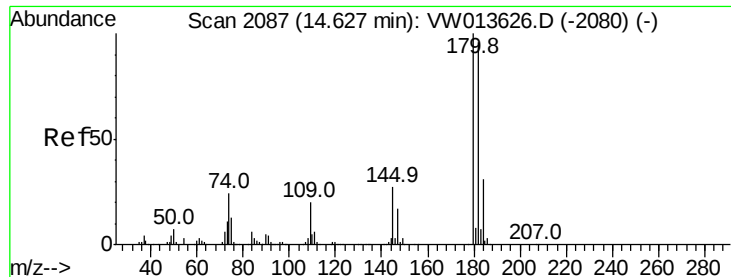


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

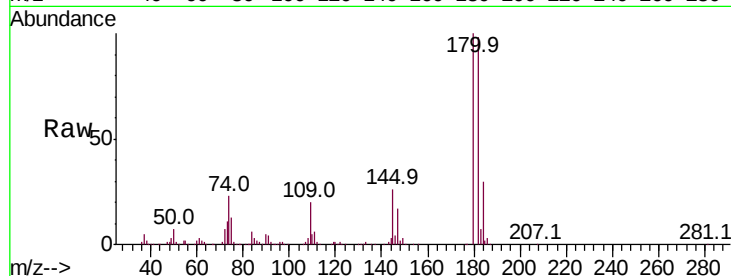




#67
 1,3,5-Trichlorobenzene
 Concen: 25.951 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:	180	Resp:	259433
Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.4
184	29.9	24.1	36.1
145	27.3	21.8	32.8



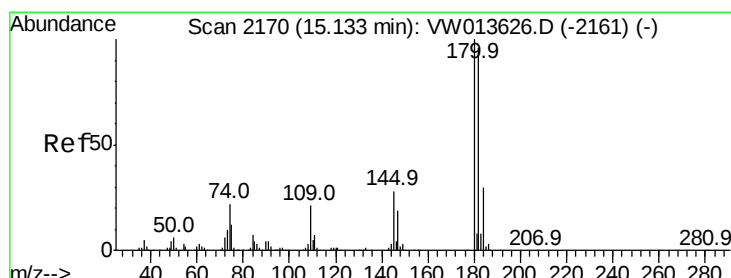
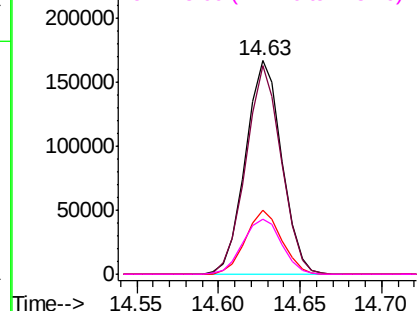
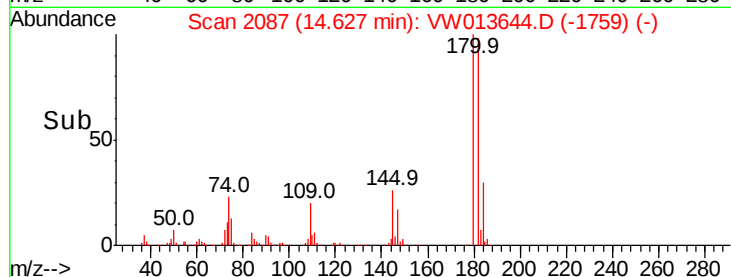
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

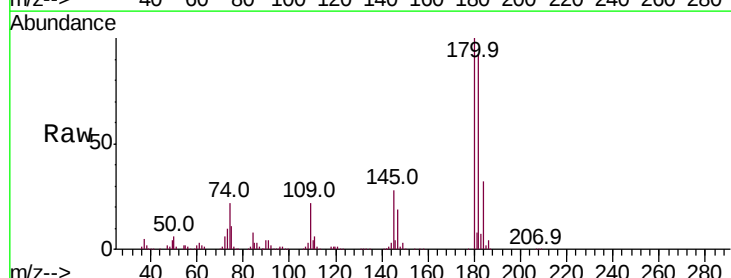
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.797 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion:	180	Resp:	218941
Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.8	113.8
145	28.0	22.6	34.0

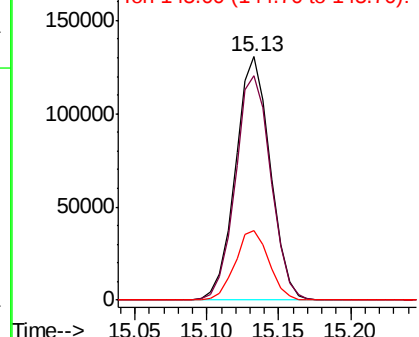
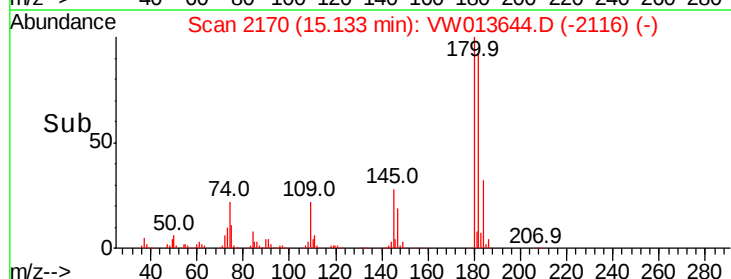


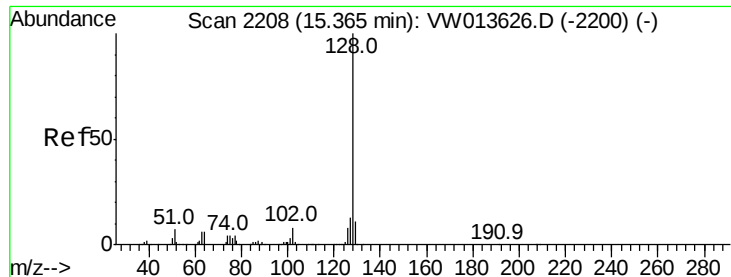
Abundance

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: 27.105 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

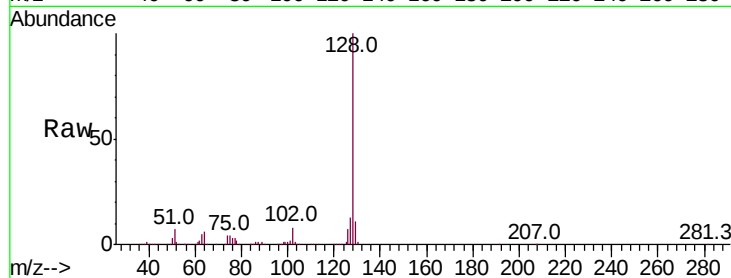
Tot Ion:128 Resp: 416846

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

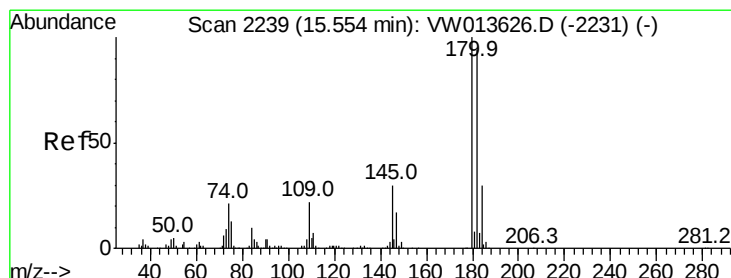
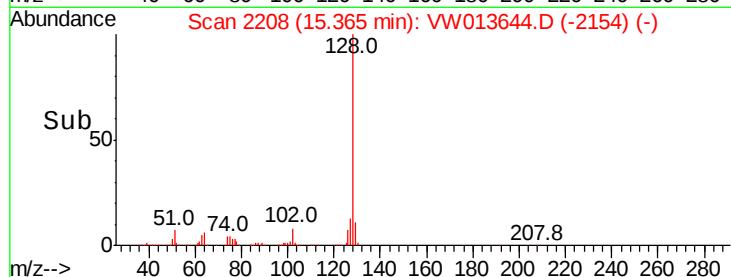
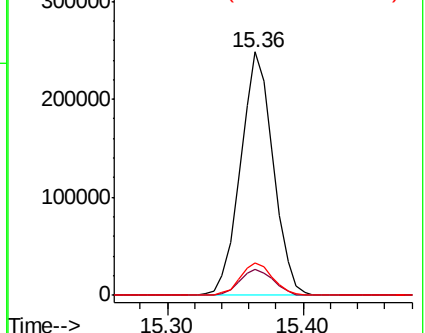
127 13.2 10.5 15.7



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: 26.770 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

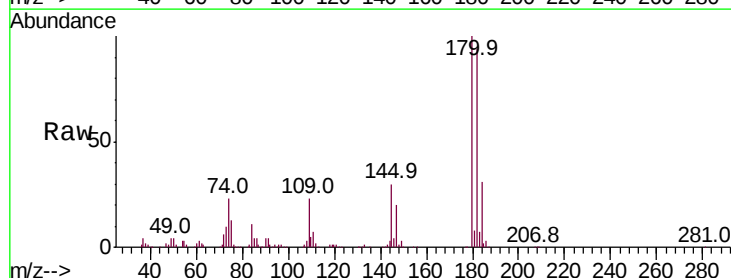
Tgt Ion:180 Resp: 203464

Ion Ratio Lower Upper

180 100

182 95.2 77.0 115.4

145 29.1 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

