

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092820\
 Data File : VW016664.D
 Acq On : 28 Sep 2020 13:02
 Operator : SY/VA
 Sample : L4171-03
 Misc : 6.05G/10ML/MSVOA W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y0

Quant Time: Sep 29 05:28:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 29 05:26:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	80464	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	68035	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	26959	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	16601	21.31	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.24%
7) Chloroethane-d5	2.90	69	16338	25.69	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.76%
10) 1,1-Dichloroethene-d2	4.03	63	26538	15.24	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	60.96%
20) 2-Butanone-d5	7.09	46	8295	39.06	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	78.12%
24) Chloroform-d	7.66	84	40115	23.83	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.32%
26) 1,2-Dichloroethane-d4	8.31	65	20597	23.84	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.36%
29) Benzene-d6	8.28	84	77373	25.36	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	101.44%
33) 1,2-Dichloropropane-d6	9.28	67	22236	26.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	107.56%
37) Toluene-d8	10.33	98	70794	23.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.32%
38) trans-1,3-Dichloropropene-	10.58	79	8275	19.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	79.40%
39) 2-Hexanone-d5	10.93	63	5493	36.52	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	73.04%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	14826	21.07	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	84.28%
61) 1,2-Dichlorobenzene-d4	13.85	152	22206	25.78	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	2.79	94	289	0.355	ug/L	50
13) Acetone	4.14	43	2641	15.877	ug/L	87
14) Carbon disulfide	4.39	76	993	0.323	ug/L #	75
16) Methylene chloride	4.93	84	3825	3.082	ug/L	91
21) 2-Butanone	7.15	43	1609	5.686	ug/L #	53
40) 1,2-Dichloropropane	9.27	63	2770	3.266	ug/L #	95
43) 4-Methyl-2-pentanone	10.22	43	989	1.835	ug/L #	93
44) Toluene	10.39	91	1704	0.416	ug/L	83
45) trans-1,3-Dichloropropene	10.59	75	486	0.386	ug/L #	1
46) 1,1,2-Trichloroethane	10.76	97	7027	9.835	ug/L #	21
52) Chlorobenzene	11.66	112	5921	2.150	ug/L	93
53) Ethylbenzene	11.73	91	1556	0.334	ug/L	89
54) m,p-Xylene	11.85	106	483	0.265	ug/L	78
57) Isopropylbenzene	12.47	105	1797	0.377	ug/L #	72
63) 1,3-Dichlorobenzene	13.50	146	66448	37.894	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	19980	11.635	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	4161	2.656	ug/L	87

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Quant Title : VOC Analysis
QLast Update : Tue Sep 29 05:26:53 2020
Response via : Initial Calibration

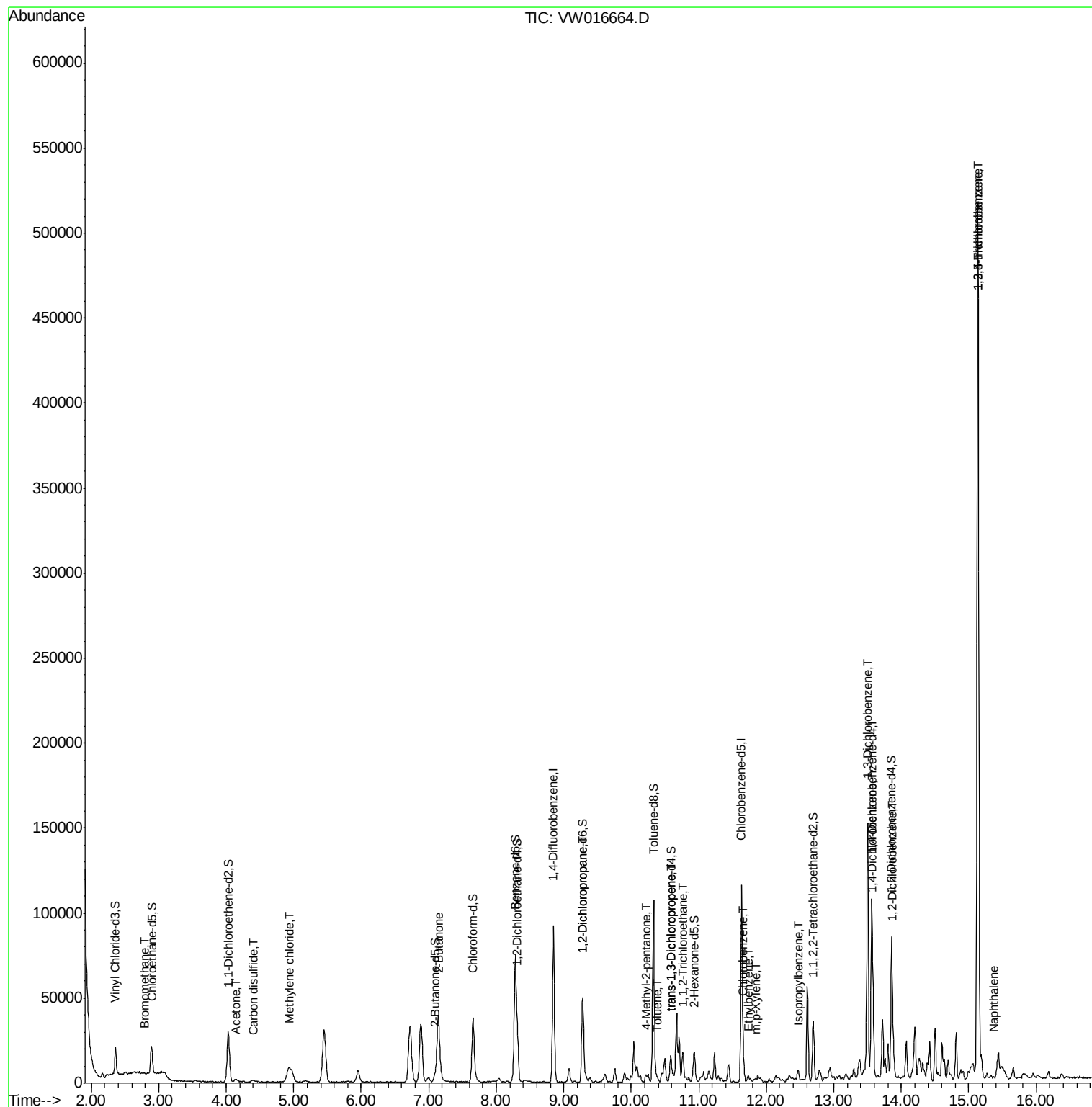
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	15.13	180	168466	131.365	ug/L	96
68) 1,2,4-trichlorobenzene	15.13	180	168466	162.390	ug/L	96
69) Naphthalene	15.36	128	782	0.425	ug/L #	93

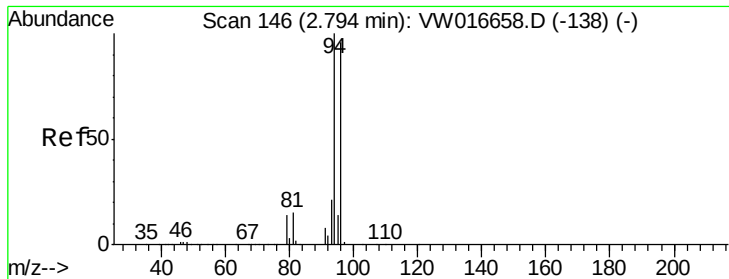
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
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Response via : Initial Calibration





#6

Bromomethane

Concen: 0.355 ug/L

RT: 2.79 min Scan# 146

Delta R.T. 0.00 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

Instrument :

MSVOA_W

ClientSampled :

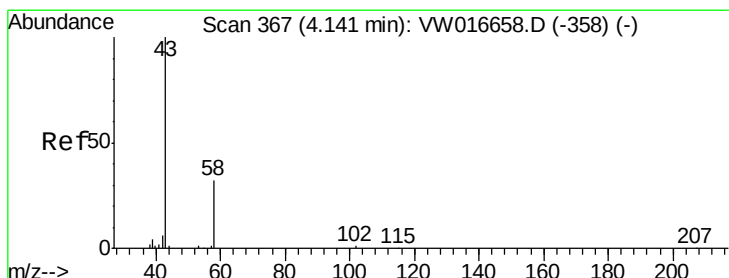
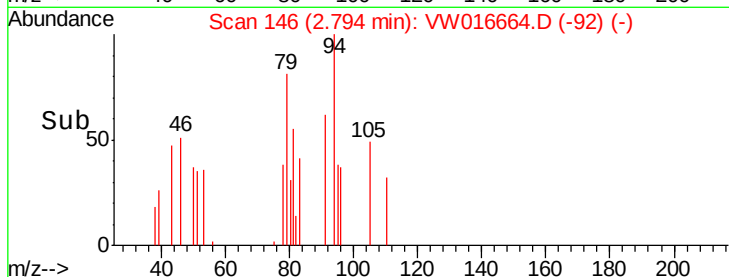
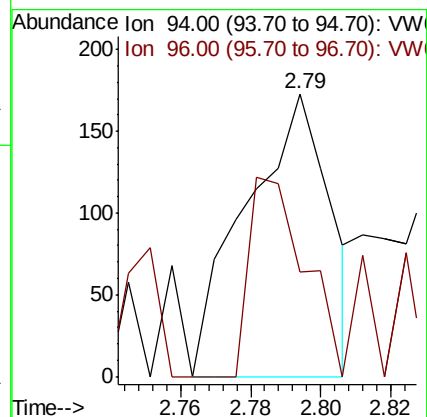
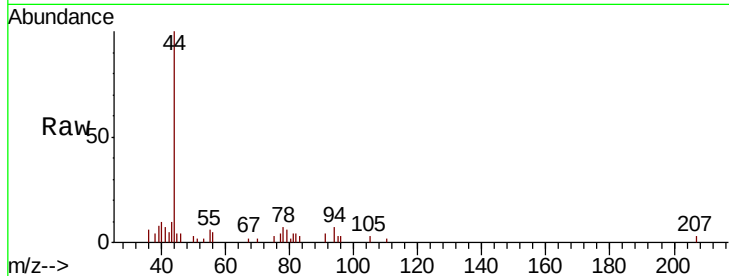
BG3Y0

Tot Ion: 94 Resp: 289

Ion Ratio Lower Upper

94 100

96 46.7 9.6 181.6



#13

Acetone

Concen: 15.877 ug/L

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW016664.D

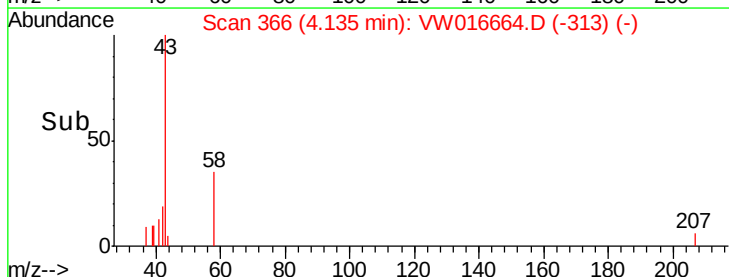
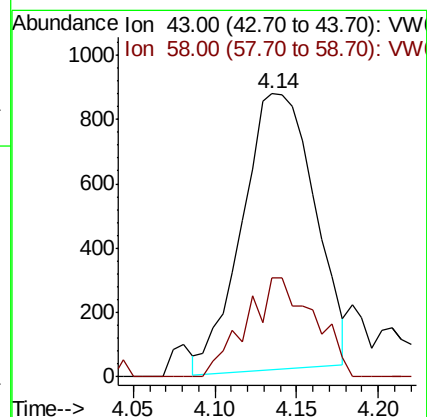
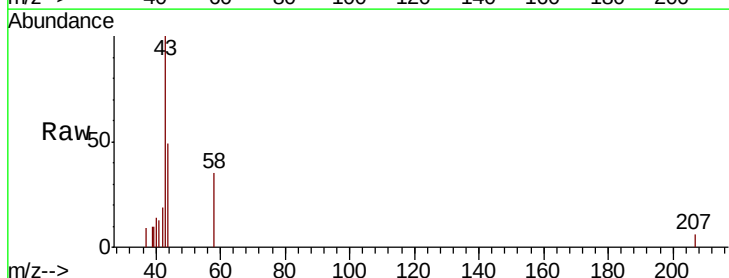
Acq: 28 Sep 2020 13:02

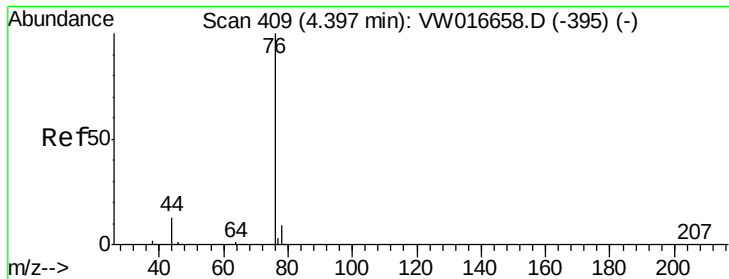
Tgt Ion: 43 Resp: 2641

Ion Ratio Lower Upper

43 100

58 22.8 0.0 60.2





#14

Carbon disulfide

Concen: 0.323 ug/L

RT: 4.39 min Scan# 408

Delta R.T. -0.01 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

Instrument :

MSVOA_W

ClientSampled :

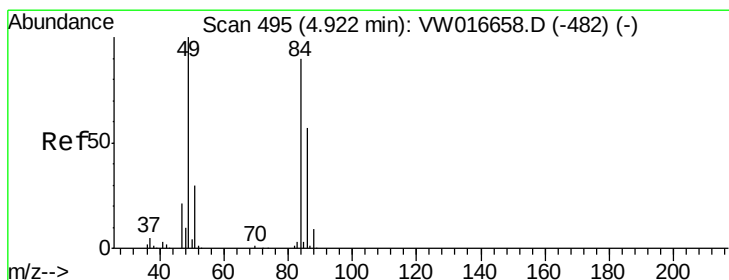
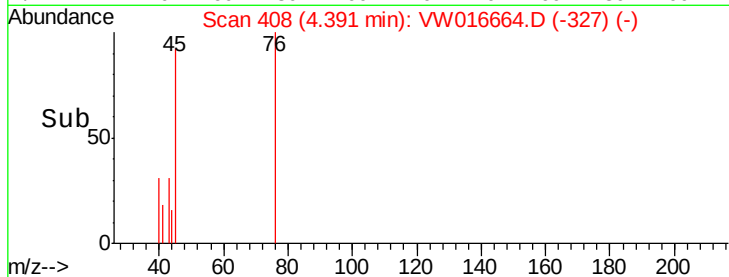
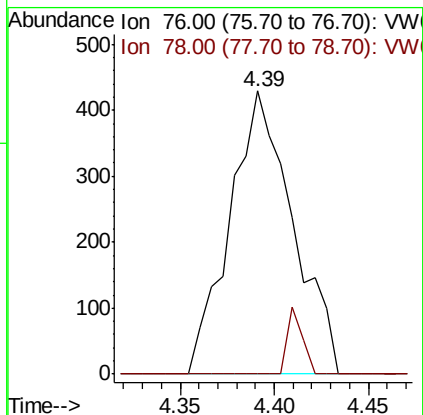
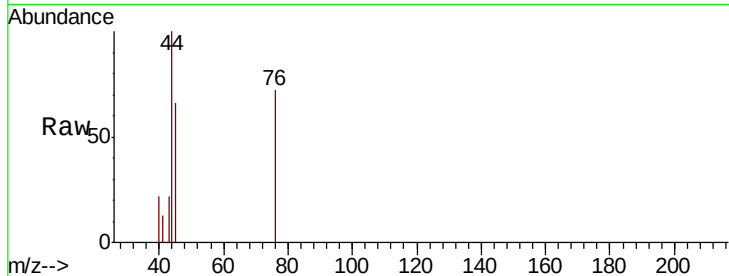
BG3Y0

Tot Ion: 76 Resp: 993

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#16

Methylene chloride

Concen: 3.082 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

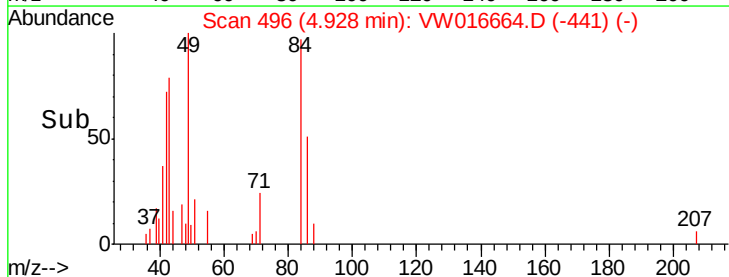
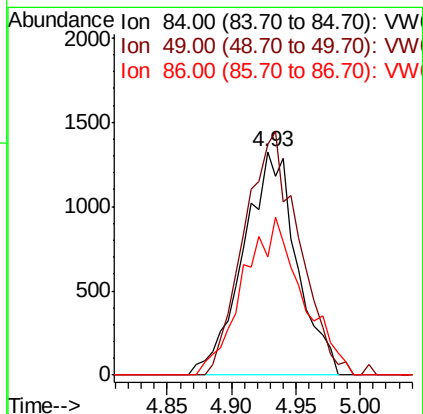
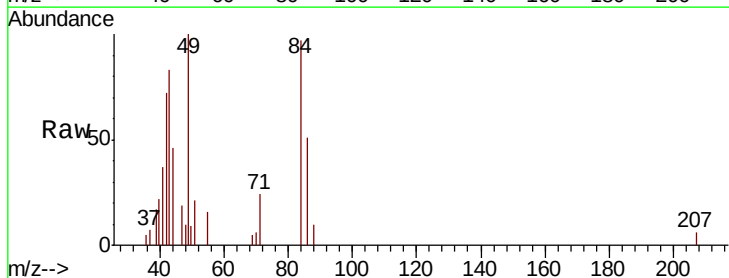
Tgt Ion: 84 Resp: 3825

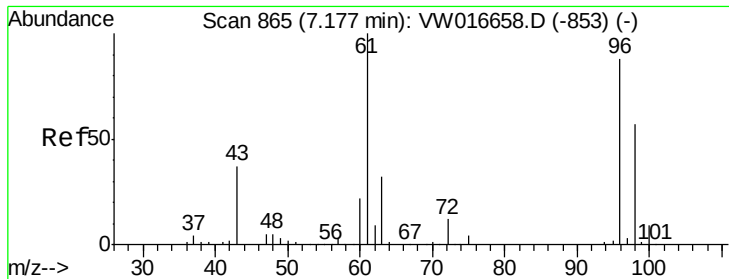
Ion Ratio Lower Upper

84 100

49 103.4 76.0 141.2

86 53.1 45.6 84.6





#21

2-Butanone

Concen: 5.686 ug/L

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

Instrument :

MSVOA_W

ClientSampled :

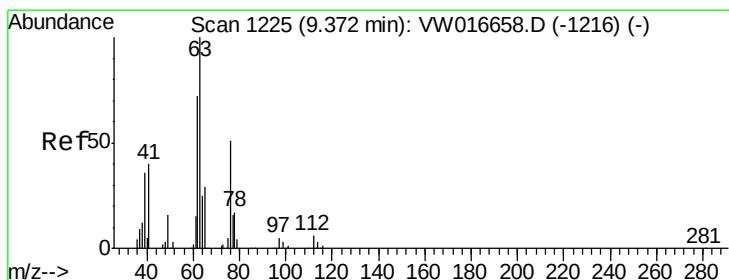
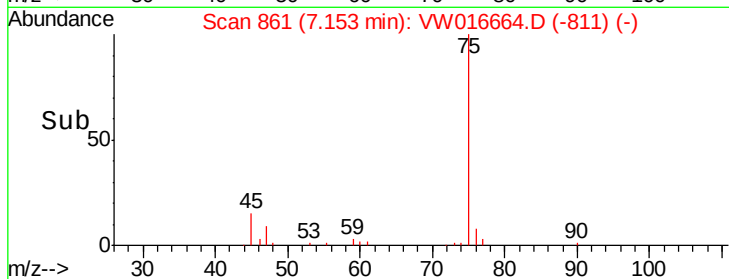
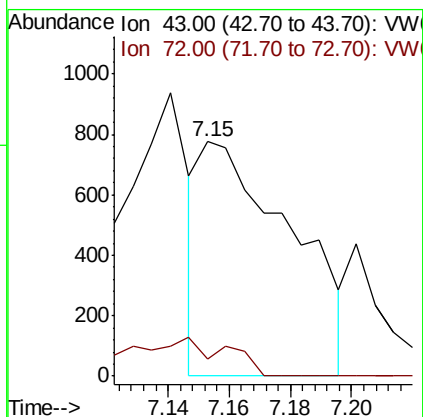
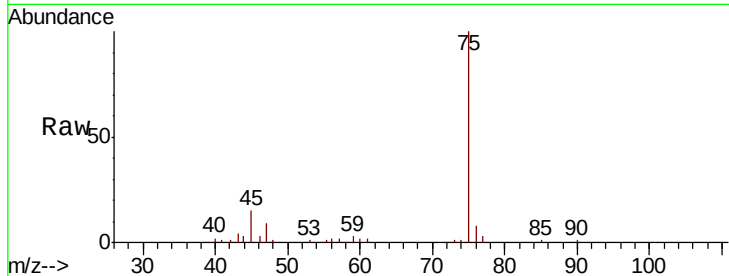
BG3Y0

Tot Ion: 43 Resp: 1609

Ion Ratio Lower Upper

43 100

72 4.0 14.6 43.8#



#40

1,2-Dichloropropane

Concen: 3.266 ug/L

RT: 9.27 min Scan# 1209

Delta R.T. -0.10 min

Lab File: VW016664.D

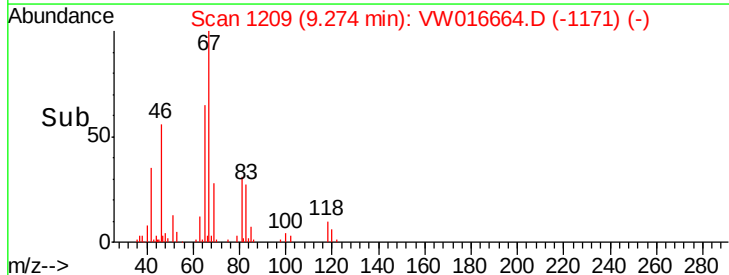
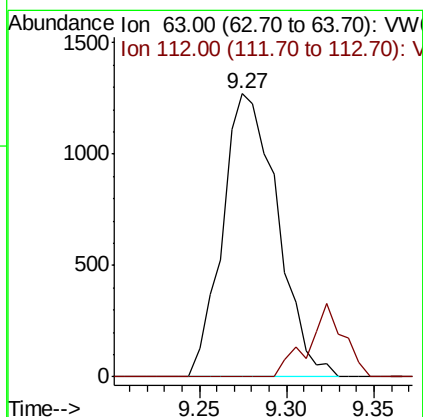
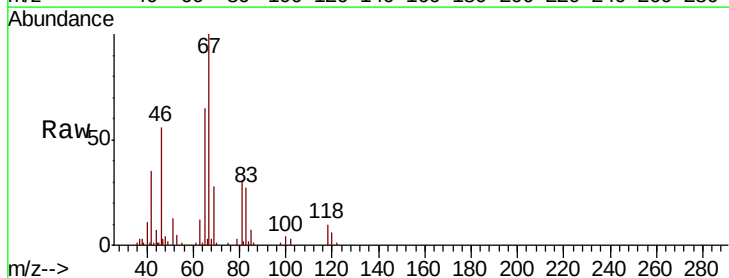
Acq: 28 Sep 2020 13:02

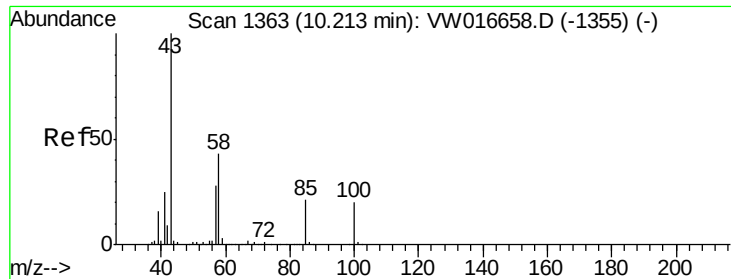
Tgt Ion: 63 Resp: 2770

Ion Ratio Lower Upper

63 100

112 3.9 4.5 6.7#





#43

4-Methyl-2-pentanone

Concen: 1.835 ug/L

RT: 10.22 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

Instrument :

MSVOA_W

ClientSampled :

BG3Y0

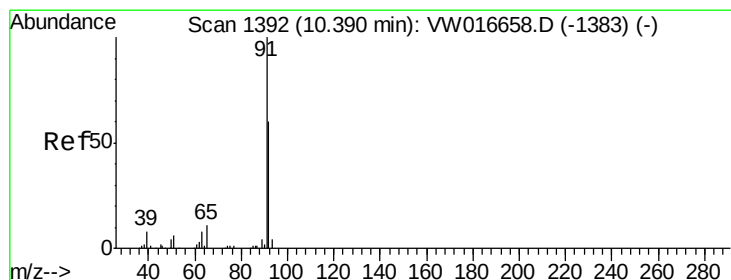
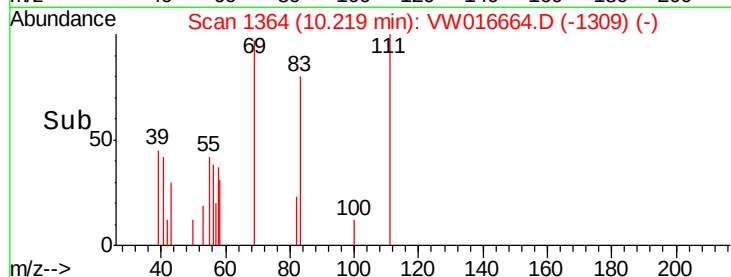
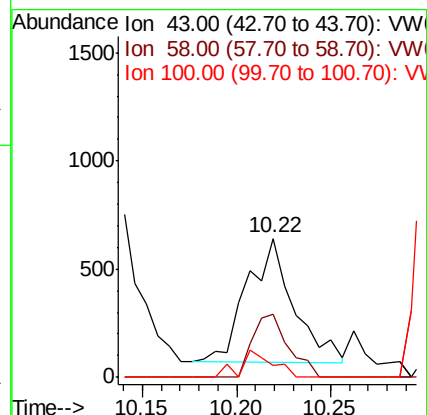
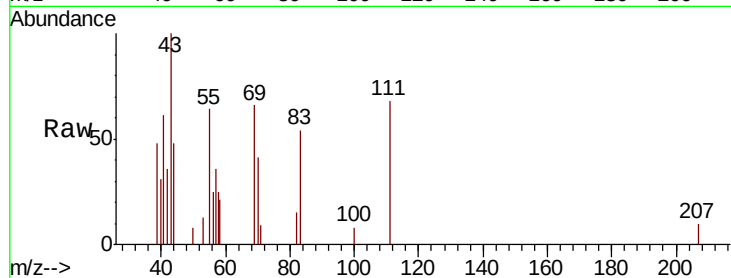
Tot Ion: 43 Resp: 989

Ion Ratio Lower Upper

43 100

58 39.1 32.2 48.4

100 12.2 15.8 23.6#



#44

Toluene

Concen: 0.416 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016664.D

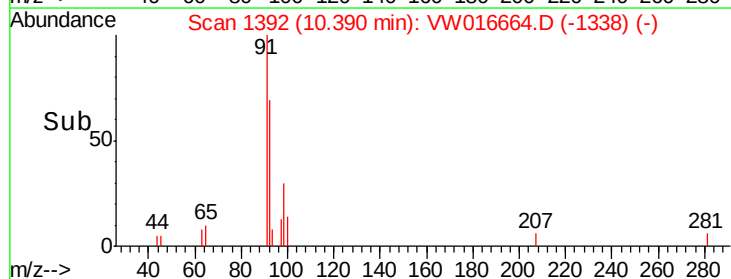
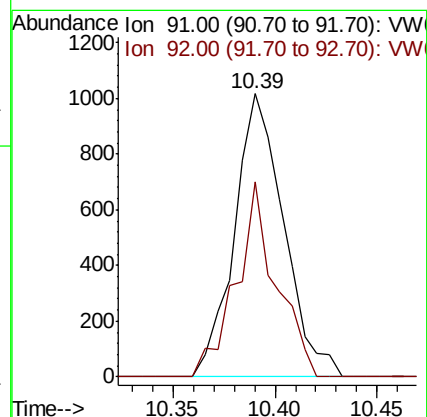
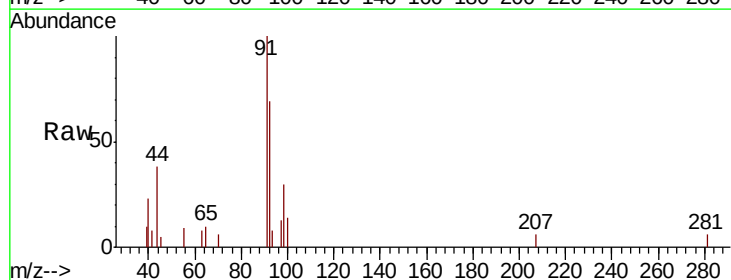
Acq: 28 Sep 2020 13:02

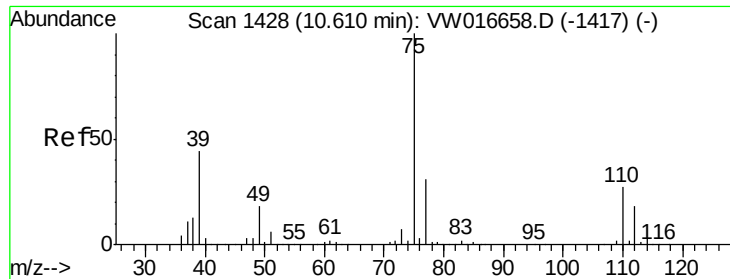
Tgt Ion: 91 Resp: 1704

Ion Ratio Lower Upper

91 100

92 68.7 39.6 73.6





#45

trans-1,3-Dichloropropene

Concen: 0.386 ug/L

RT: 10.59 min Scan# 1425

Delta R.T. -0.02 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

Instrument :

MSVOA_W

ClientSampleId :

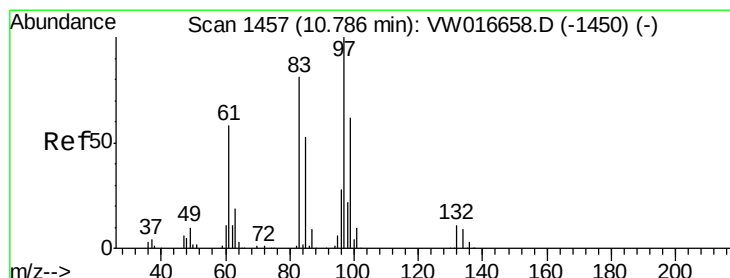
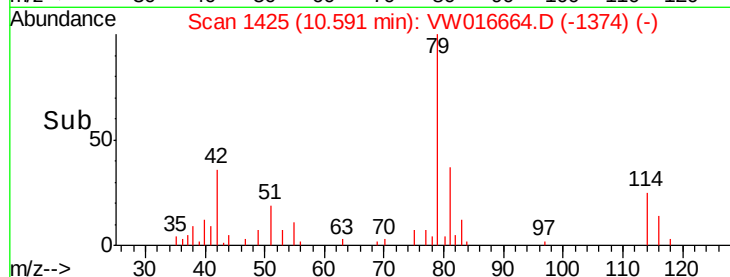
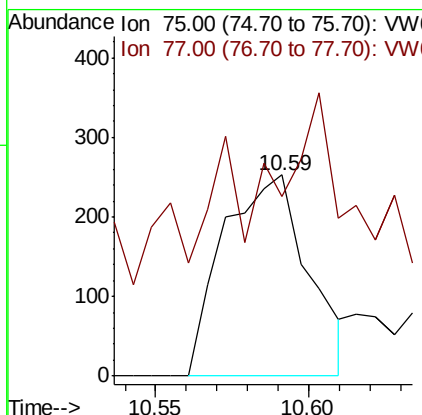
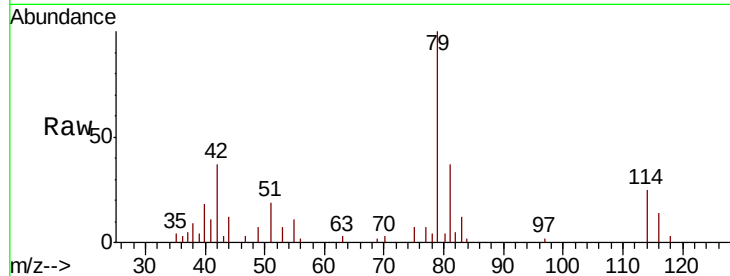
BG3Y0

Tot Ion: 75 Resp: 486

Ion Ratio Lower Upper

75 100

77 88.9 22.5 41.9#



#46

1,1,2-Trichloroethane

Concen: 9.835 ug/L

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

Tgt Ion: 97 Resp: 7027

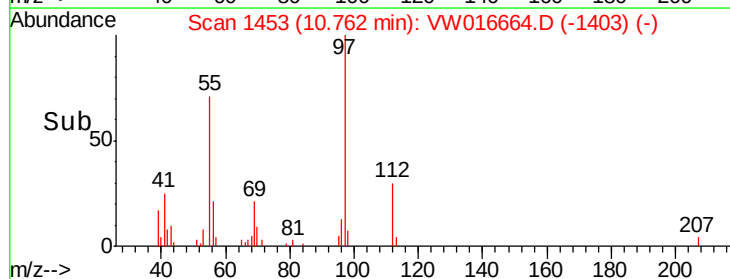
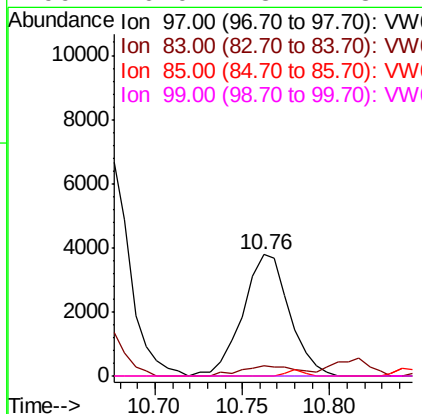
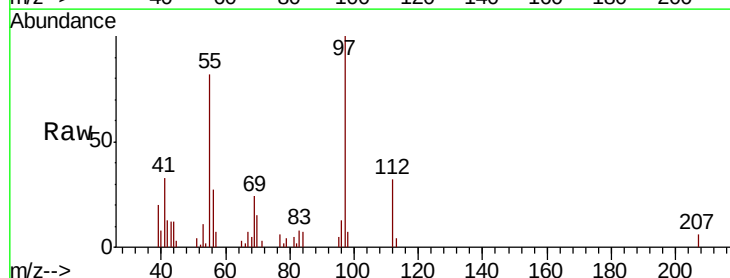
Ion Ratio Lower Upper

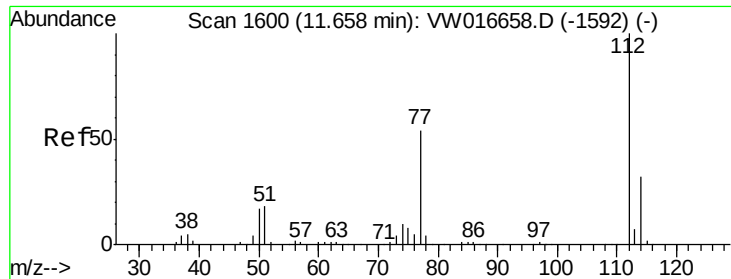
97 100

83 8.2 55.7 103.5#

85 0.0 36.8 68.4#

99 0.0 43.7 81.1#

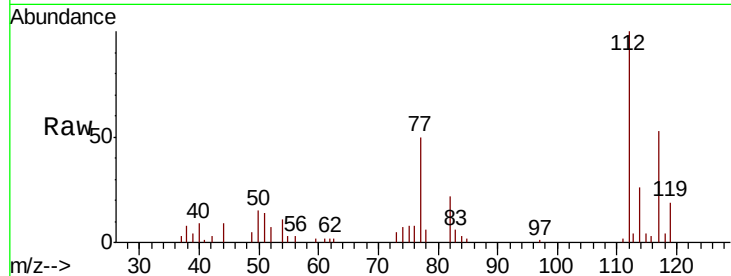




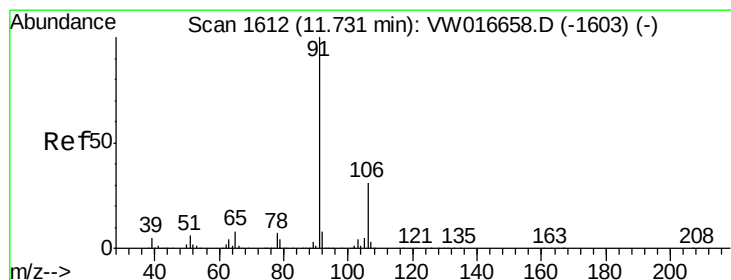
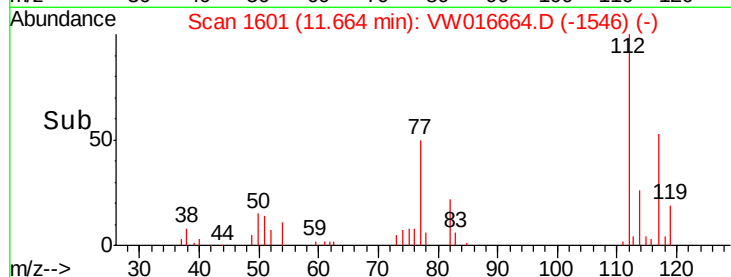
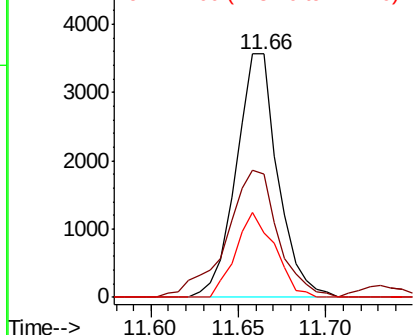
#52
Chlorobenzene
Concen: 2.150 ug/L
RT: 11.66 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VW016664.D
Acq: 28 Sep 2020 13:02

Instrument :
MSVOA_W
ClientSampleId :
BG3Y0

Tot Ion:112 Resp: 5921
Ion Ratio Lower Upper
112 100
77 50.5 43.1 64.7
114 26.2 22.3 41.3

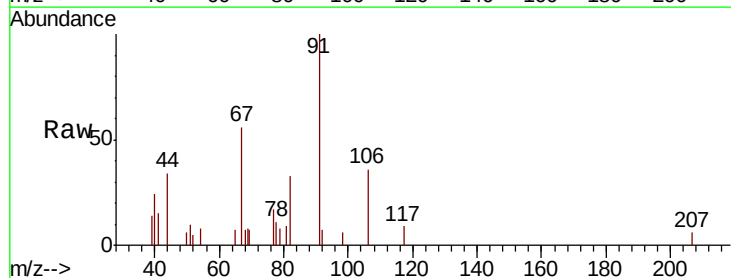


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): VW
Ion 114.00 (113.70 to 114.70): V

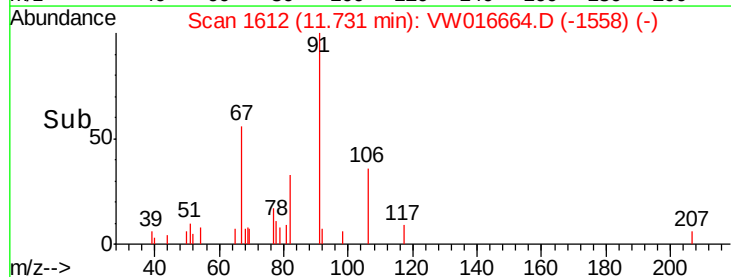
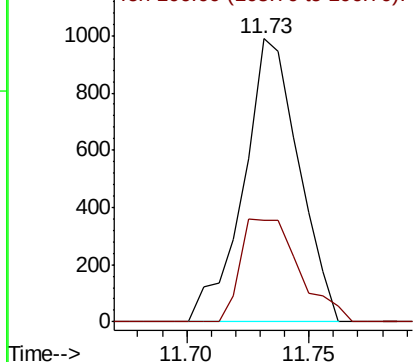


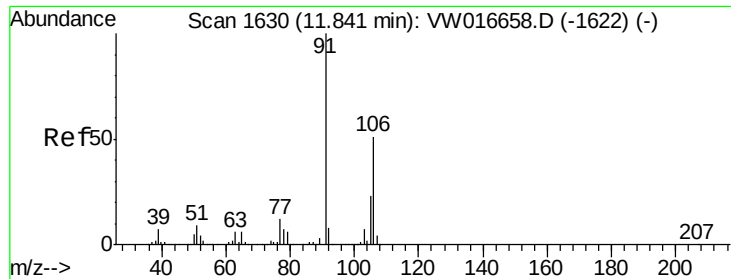
#53
Ethylbenzene
Concen: 0.334 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016664.D
Acq: 28 Sep 2020 13:02

Tgt Ion: 91 Resp: 1556
Ion Ratio Lower Upper
91 100
106 35.8 20.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 0.265 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

Instrument :

MSVOA_W

ClientSampled :

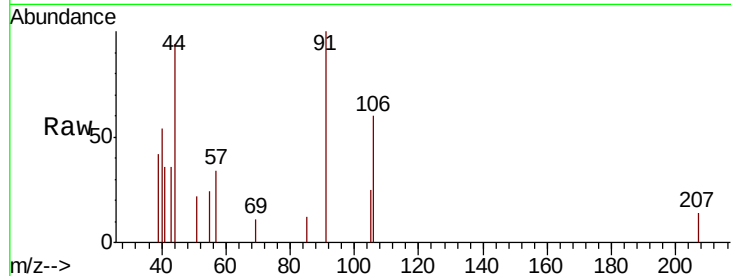
BG3Y0

Tot Ion:106 Resp: 483

Ion Ratio Lower Upper

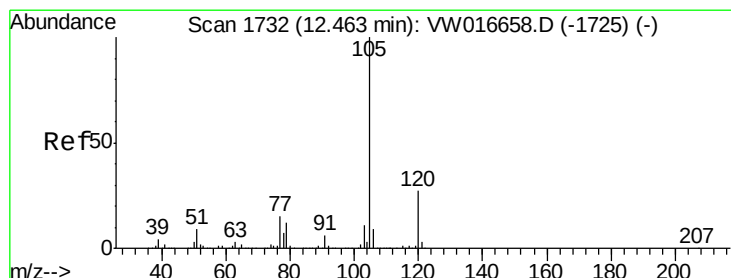
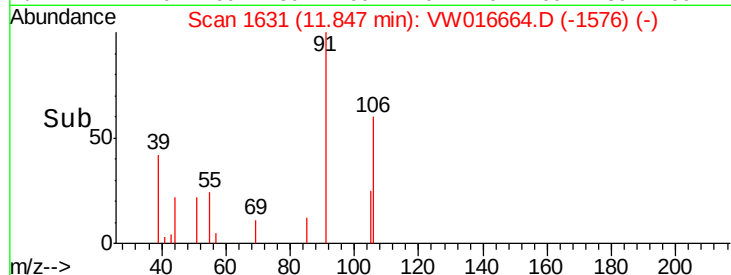
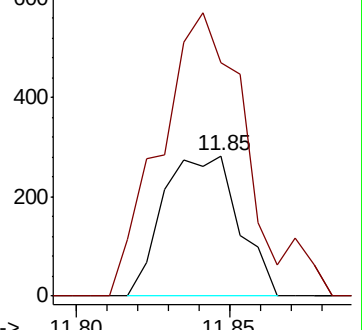
106 100

91 166.3 139.7 259.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#57

Isopropylbenzene

Concen: 0.377 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

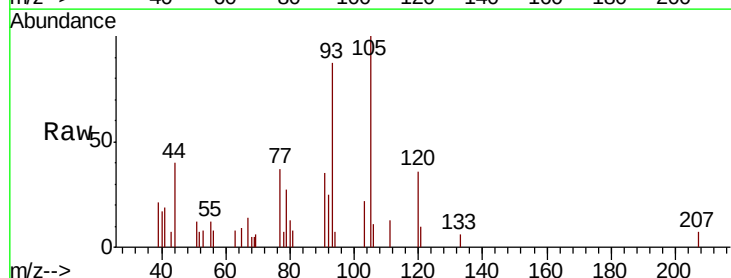
Tgt Ion:105 Resp: 1797

Ion Ratio Lower Upper

105 100

120 27.7 21.8 32.8

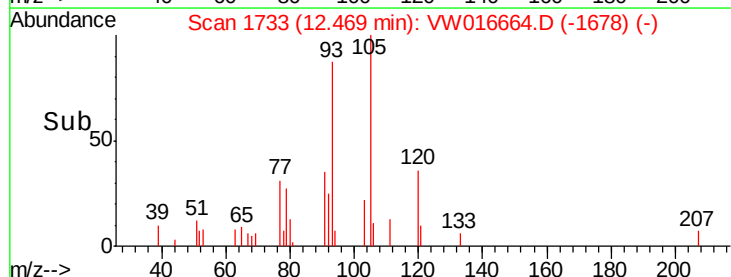
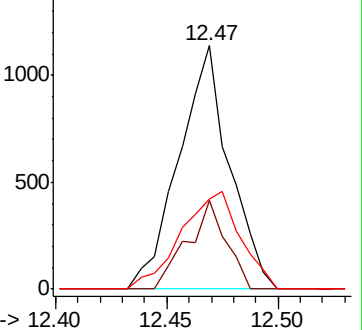
77 47.1 12.2 18.2#

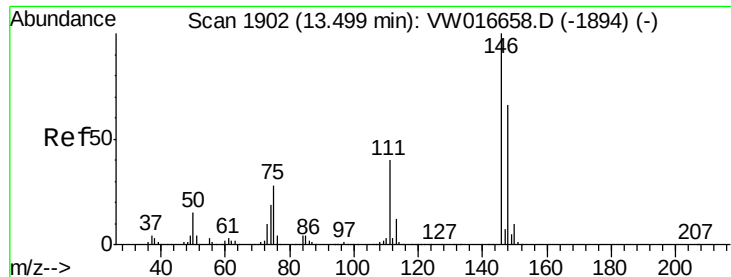


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#63

1,3-Dichlorobenzene

Concen: 37.894 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

Instrument :

MSVOA_W

ClientSampled :

BG3Y0

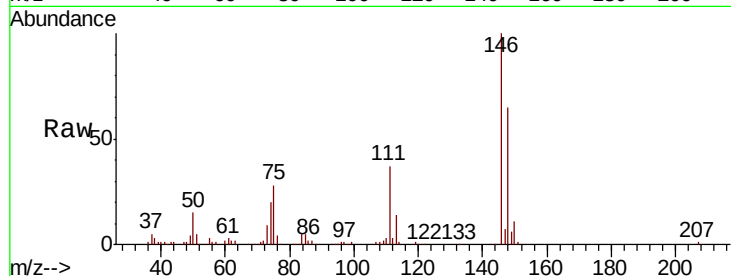
Tot Ion:146 Resp: 66448

Ion Ratio Lower Upper

146 100

111 37.5 25.0 46.4

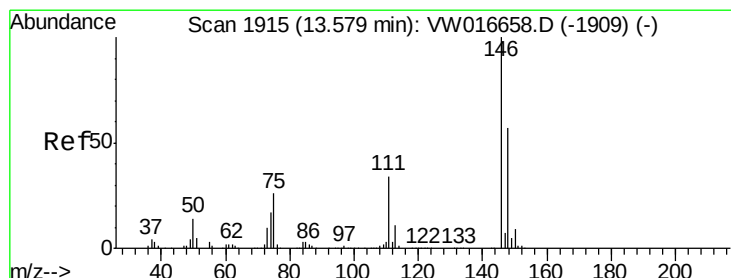
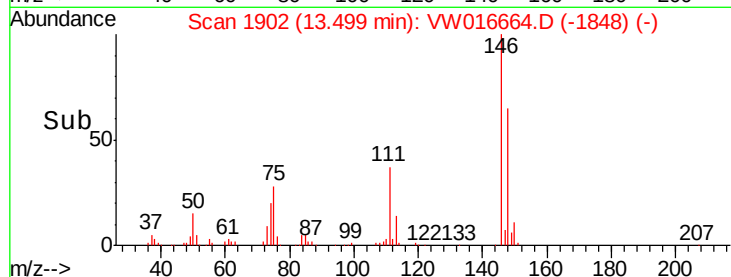
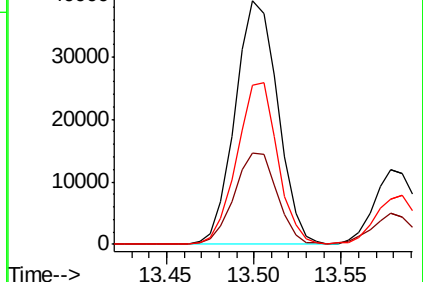
148 65.4 44.0 81.8



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



#64

1,4-Dichlorobenzene

Concen: 11.635 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW016664.D

Acq: 28 Sep 2020 13:02

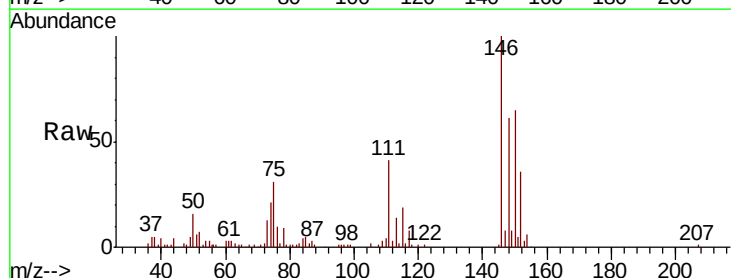
Tgt Ion:146 Resp: 19980

Ion Ratio Lower Upper

146 100

111 40.8 25.1 46.5

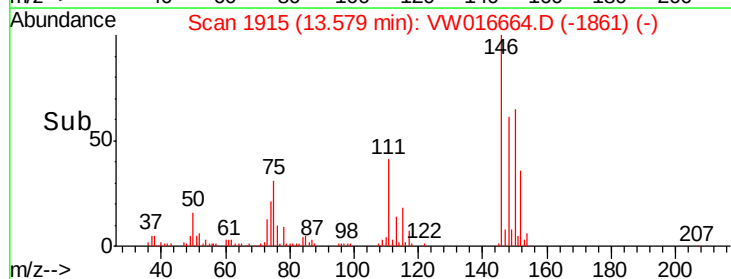
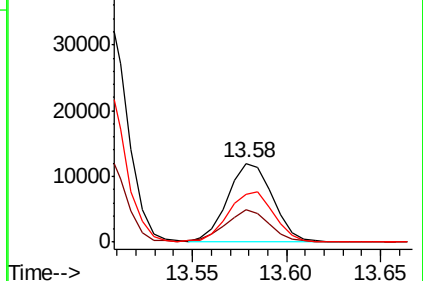
148 60.7 42.3 78.5

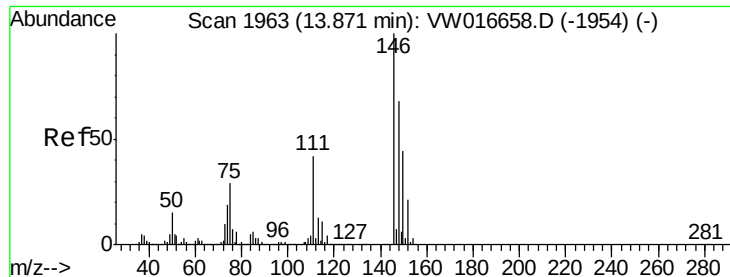


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

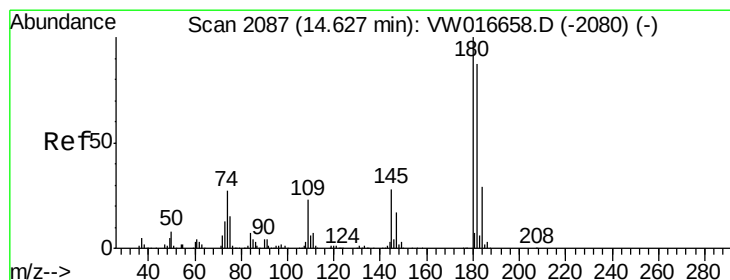
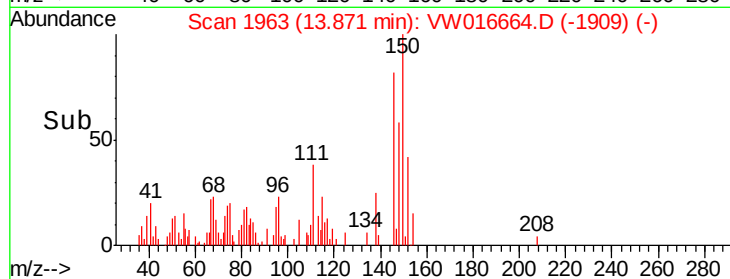
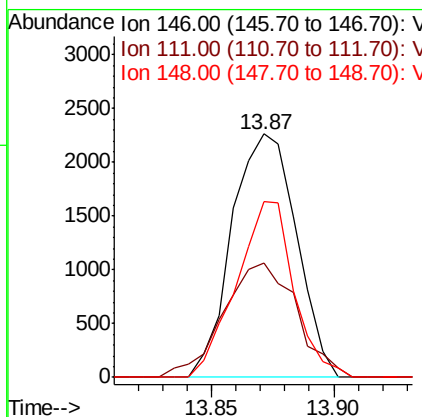
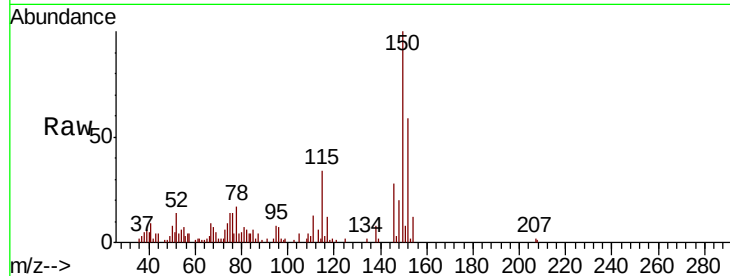




#65
 1,2-Dichlorobenzene
 Concen: 2.656 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW016664.D
 Acq: 28 Sep 2020 13:02

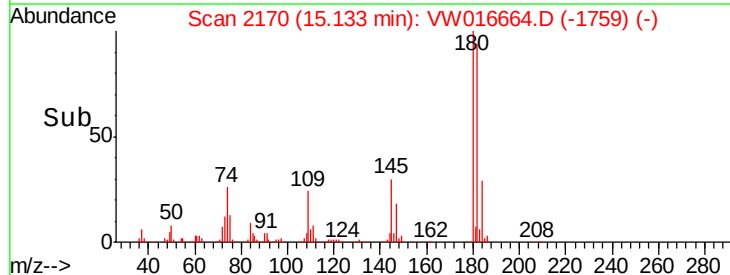
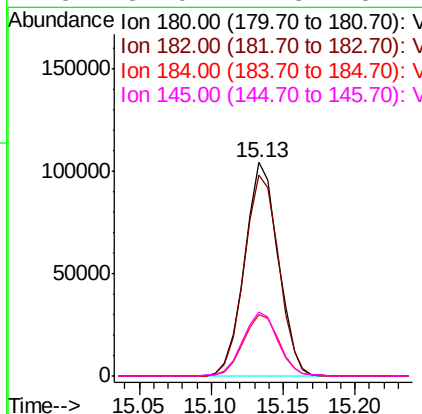
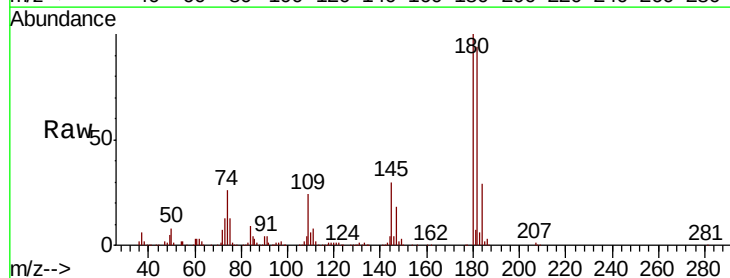
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y0

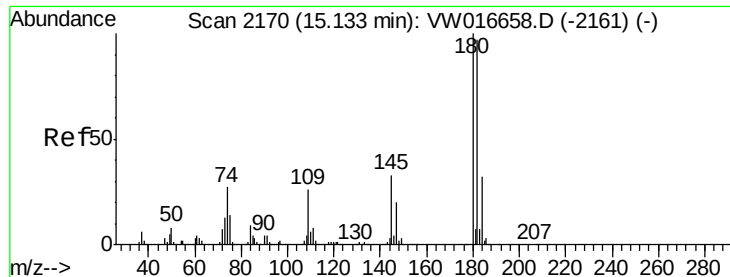
Tot Ion	Ratio	Lower	Upper
146	100		
111	46.9	31.4	47.0
148	71.9	49.3	73.9



#67
 1,3,5-Trichlorobenzene
 Concen: 131.365 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.51 min
 Lab File: VW016664.D
 Acq: 28 Sep 2020 13:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	73.8	110.8
184	30.4	23.7	35.5
145	32.0	22.8	34.2

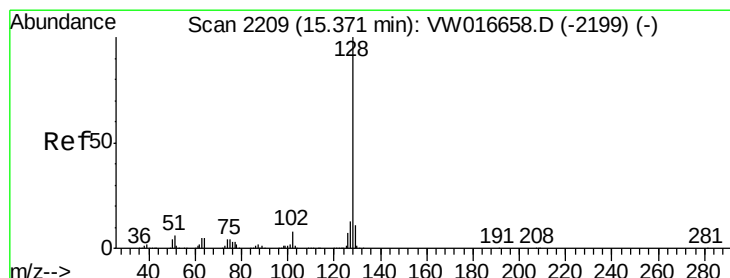
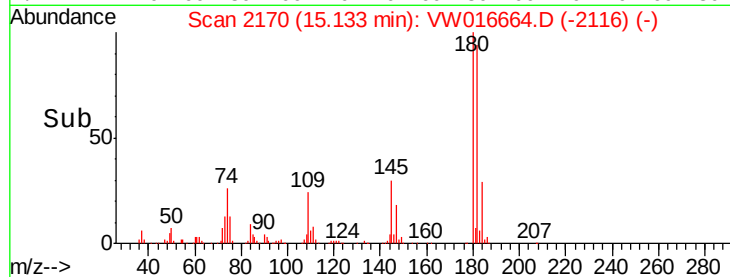
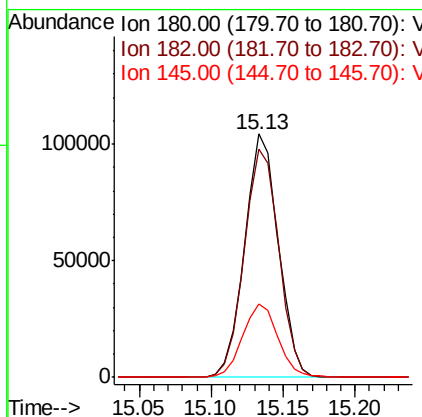
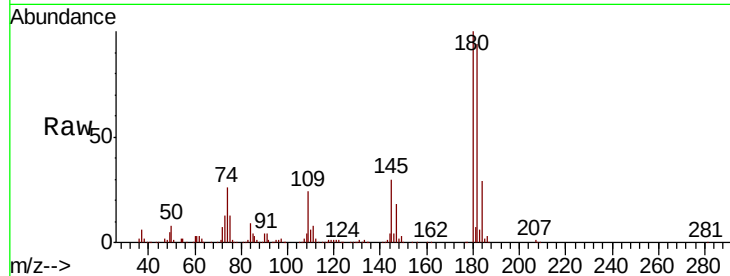




#68
 1,2,4-trichlorobenzene
 Concen: 162.390 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016664.D
 Acq: 28 Sep 2020 13:02

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y0

Tot Ion	180	Resp	168466
Ion Ratio	100		
Lower	74.5		
Upper	111.7		
182	96.7		
145	32.0		
	23.1		
	34.7		



#69
 Naphthalene
 Concen: 0.425 ug/L
 RT: 15.36 min Scan# 2208
 Delta R.T. -0.01 min
 Lab File: VW016664.D
 Acq: 28 Sep 2020 13:02

Tgt Ion	128	Resp	782
Ion Ratio	100		
Lower	8.9		
Upper	13.3		
129	13.0		
127	9.7		
	10.8		
	16.2		

