

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092820\
 Data File : VW016668.D
 Acq On : 28 Sep 2020 14:47
 Operator : SY/VA
 Sample : L4171-05
 Misc : 6.23G/10ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y7

Quant Time: Sep 29 05:28:56 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	161138	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	133393	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	51868	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	35533	22.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.12%
7) Chloroethane-d5	2.89	69	35830	28.13	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	112.52%
10) 1,1-Dichloroethene-d2	4.03	63	58047	16.65	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	66.60%
20) 2-Butanone-d5	7.08	46	14956	35.17	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	70.34%
24) Chloroform-d	7.65	84	77254	22.92	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.68%
26) 1,2-Dichloroethane-d4	8.31	65	36848	21.29	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	85.16%
29) Benzene-d6	8.28	84	153827	25.71	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.84%
33) 1,2-Dichloropropane-d6	9.27	67	42435	26.18	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	104.72%
37) Toluene-d8	10.33	98	149225	25.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.40%
38) trans-1,3-Dichloropropene-	10.58	79	15495	18.96	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	75.84%
39) 2-Hexanone-d5	10.93	63	11039	37.44	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	74.88%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	27575	19.99	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	79.96%
61) 1,2-Dichlorobenzene-d4	13.86	152	40831	24.64	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.56%

Target Compounds

					Ovalue
13) Acetone	4.13	43	7336	22.023	ug/L 95
16) Methylene chloride	4.93	84	8989	3.617	ug/L # 1
17) Methyl tert-butyl Ether	5.44	73	662	0.237	ug/L # 1
21) 2-Butanone	7.17	43	34373	60.654	ug/L # 49
30) Cyclohexane	7.96	56	373426	128.104	ug/L 97
35) Trichloroethene	8.84	95	4971	2.403	ug/L # 4
36) Methylcyclohexane	9.34	83	49414	14.083	ug/L 92
42) cis-1,3-Dichloropropene	10.04	75	1404	0.494	ug/L # 68
43) 4-Methyl-2-pentanone	10.22	43	1705	1.614	ug/L 92
44) Toluene	10.39	91	235221	29.258	ug/L 97
46) 1,1,2-Trichloroethane	10.77	97	21209	15.140	ug/L # 23
47) Tetrachloroethene	10.87	164	2615	1.400	ug/L 96
49) 2-Hexanone	10.97	43	2516	3.752	ug/L # 65
50) Dibromochloromethane	10.86	129	2149	1.175	ug/L # 12
52) Chlorobenzene	11.66	112	8495	1.573	ug/L 97
53) Ethylbenzene	11.73	91	580042	63.548	ug/L 97
54) m,p-Xylene	11.83	106	1100111	307.801	ug/L 100

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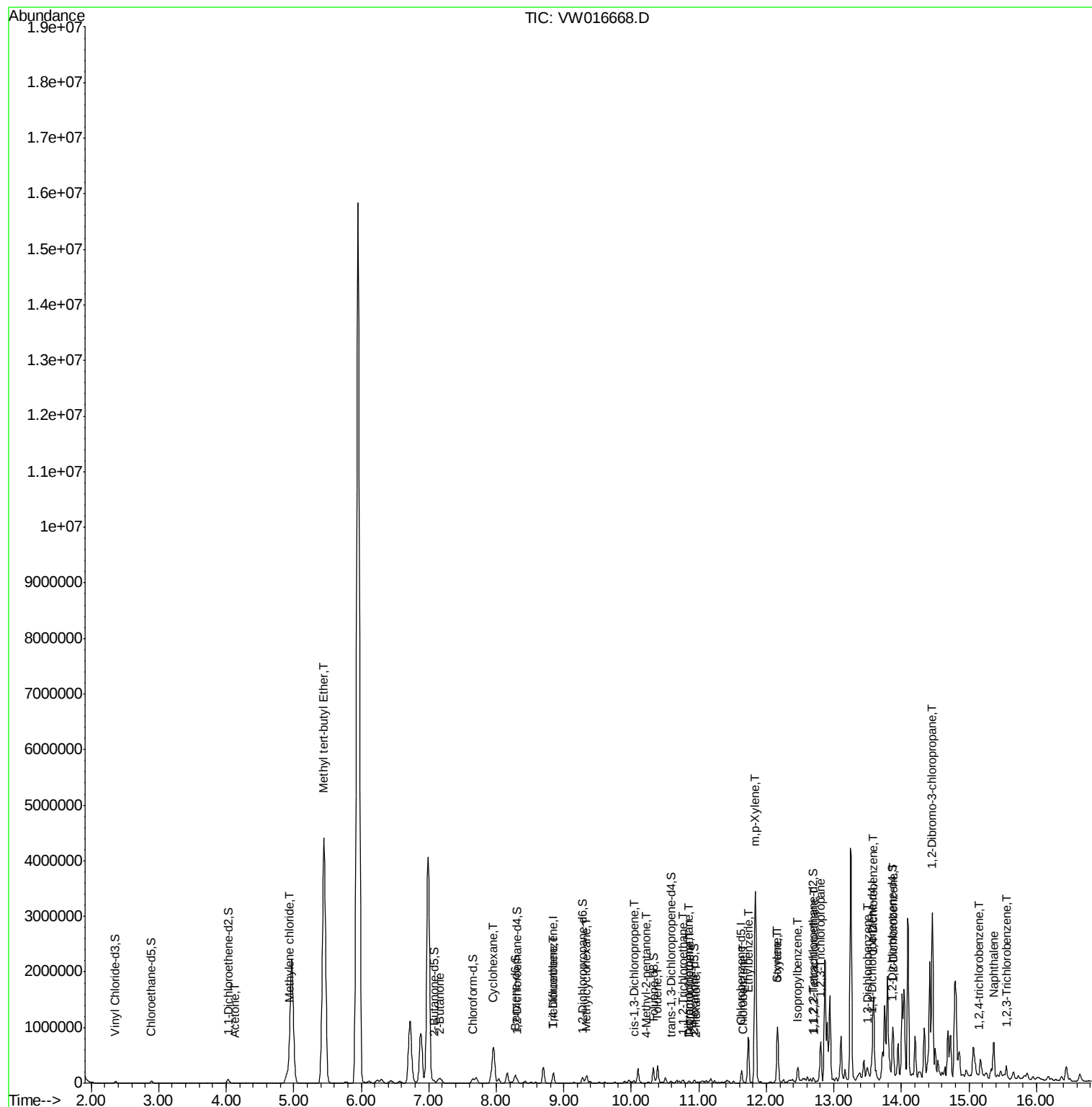
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.17	106	283985	82.937	ug/L	93
56) Styrene	12.17	104	13945	2.453	ug/L #	1
57) Isopropylbenzene	12.46	105	177799	19.003	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	701	0.447	ug/L #	35
59) 1,2,3-Trichloropropane	12.80	75	3148	2.698	ug/L #	1
63) 1,3-Dichlorobenzene	13.50	146	3345	0.991	ug/L #	48
64) 1,4-Dichlorobenzene	13.58	146	21063	6.375	ug/L #	75
65) 1,2-Dichlorobenzene	13.87	146	26693	8.855	ug/L #	82
66) 1,2-Dibromo-3-chloropropan	14.46	75	20679	95.700	ug/L #	1
68) 1,2,4-trichlorobenzene	15.14	180	8237	4.127	ug/L #	1
69) Naphthalene	15.37	128	585450	165.464	ug/L	99
70) 1,2,3-Trichlorobenzene	15.57	180	751	0.437	ug/L #	1

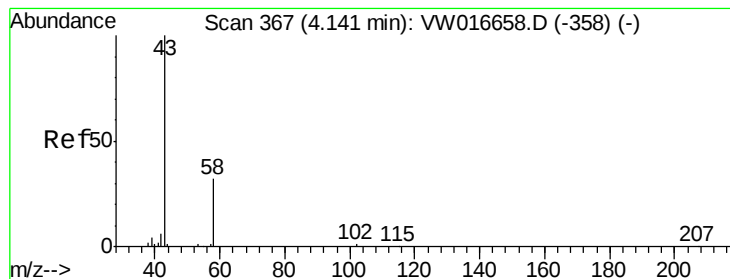
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 22.023 ug/L

RT: 4.13 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

Instrument :

MSVOA_W

ClientSampleId :

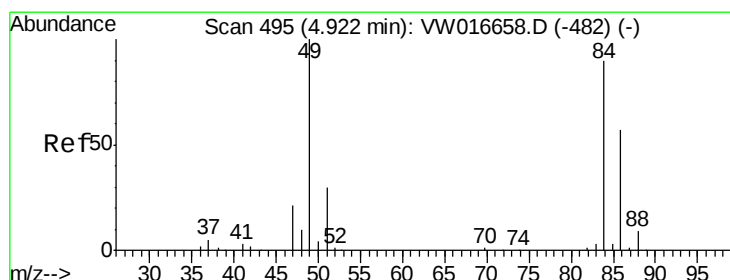
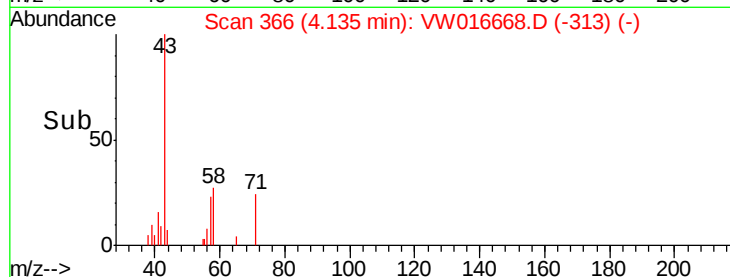
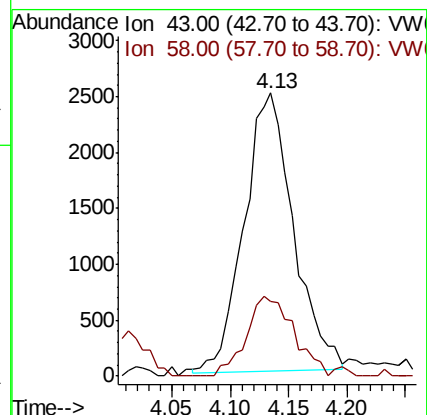
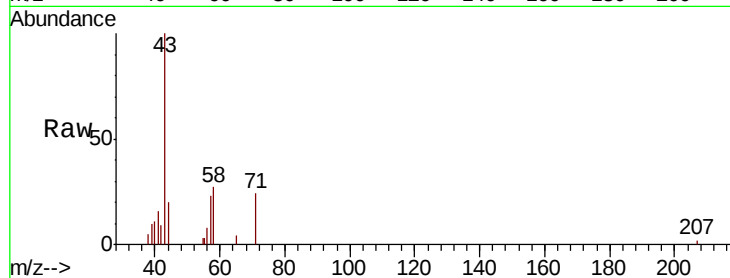
BG3Y7

Tot Ion: 43 Resp: 7336

Ion Ratio Lower Upper

43 100

58 27.6 0.0 60.2



#16

Methylene chloride

Concen: 3.617 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

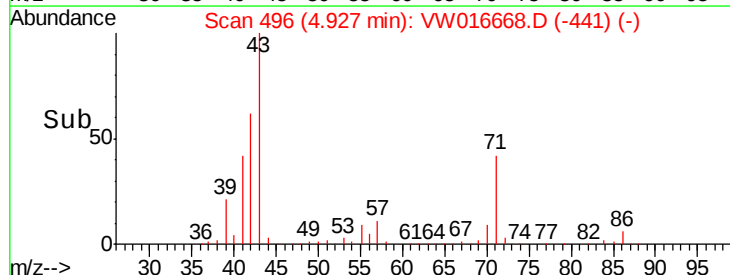
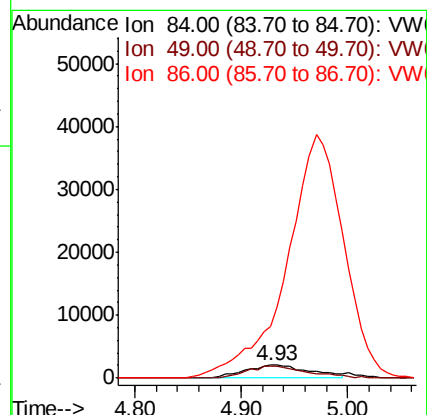
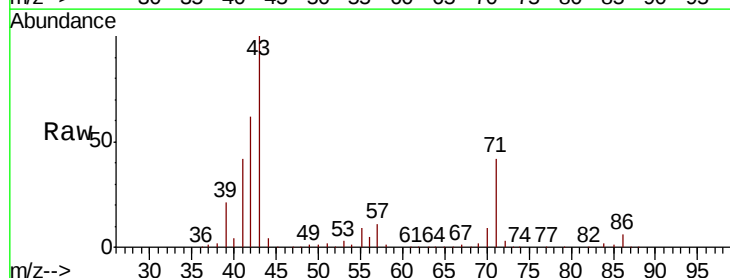
Tgt Ion: 84 Resp: 8989

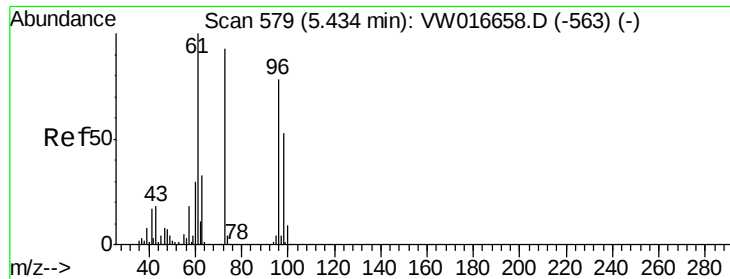
Ion Ratio Lower Upper

84 100

49 88.0 76.0 141.2

86 397.6 45.6 84.6#

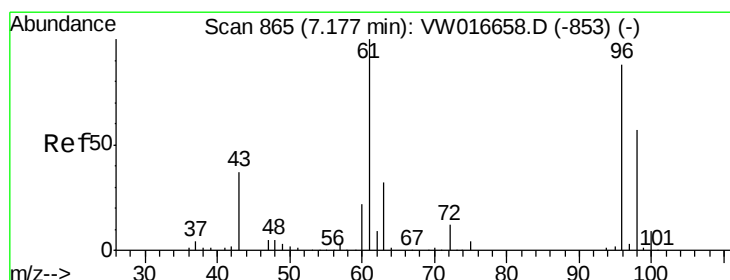
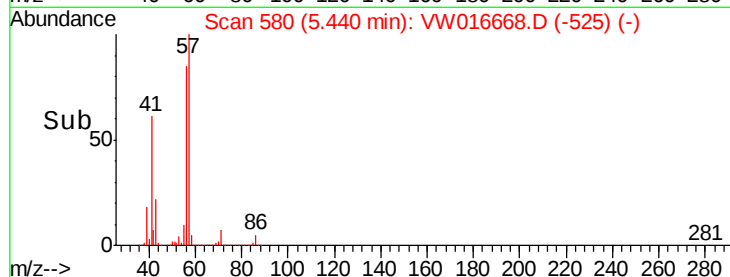
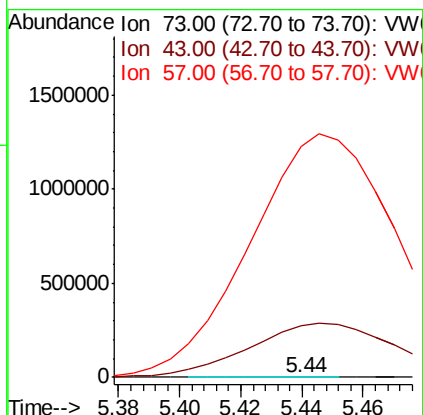
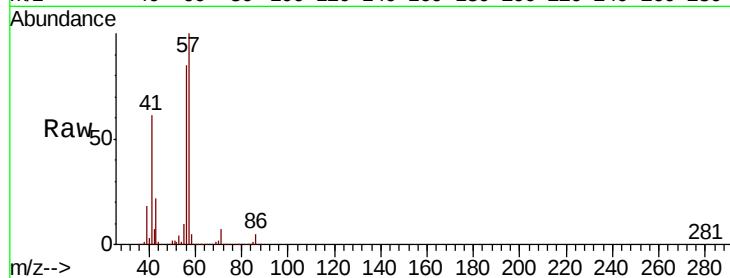




#17
Methvl tert-butvl Ether
Concen: 0.237 ug/L
RT: 5.44 min Scan# 580
Delta R.T. 0.01 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

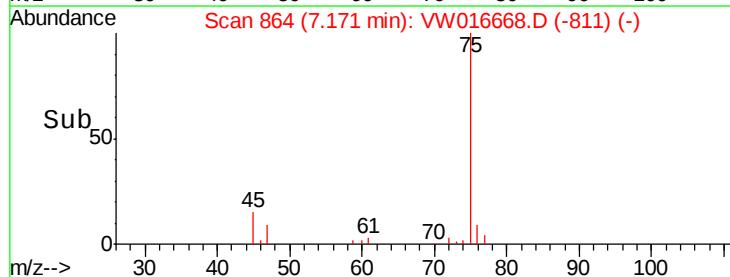
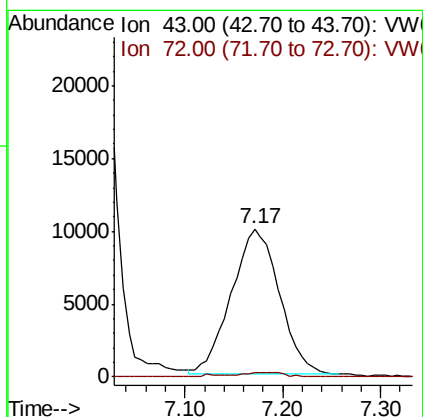
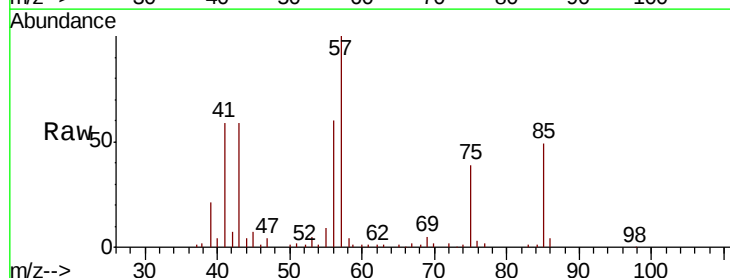
Instrument :
MSVOA_W
ClientSampleId :
BG3Y7

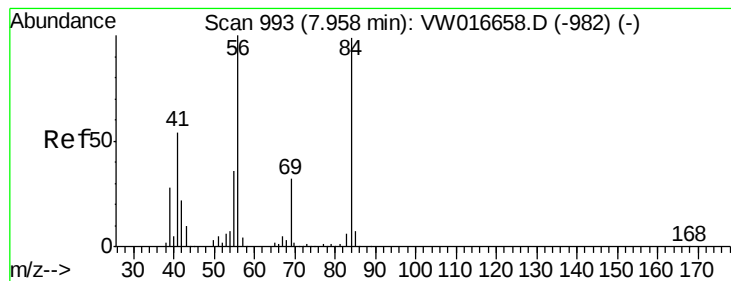
Tot Ion: 73 Resp: 662
Ion Ratio Lower Upper
73 100
43 146850.6 17.2 25.8#
57 662994.9 16.3 24.5#



#21
2-Butanone
Concen: 60.654 ug/L
RT: 7.17 min Scan# 864
Delta R.T. -0.01 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

Tgt Ion: 43 Resp: 34373
Ion Ratio Lower Upper
43 100
72 1.8 14.6 43.8#





#30

Cyclohexane

Concen: 128.104 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.01 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

Instrument :

MSVOA_W

ClientSampleId :

BG3Y7

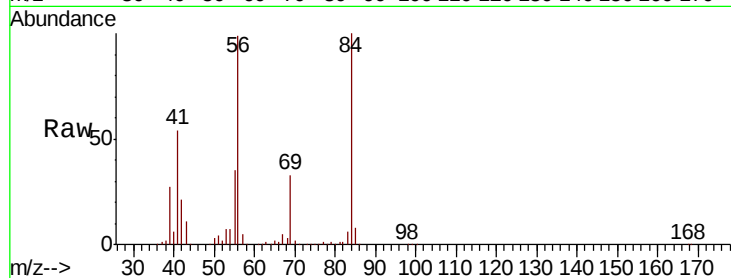
Tot Ion: 56 Resp: 373426

Ion Ratio Lower Upper

56 100

69 31.2 26.5 39.7

84 95.7 79.0 118.6

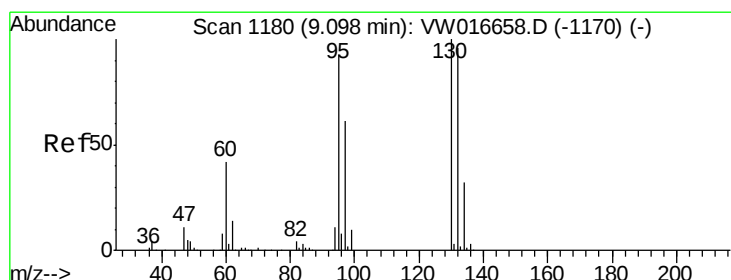
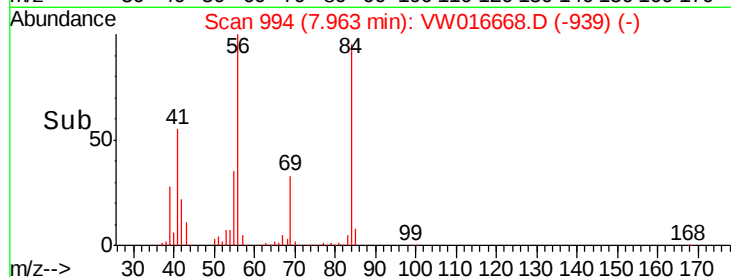
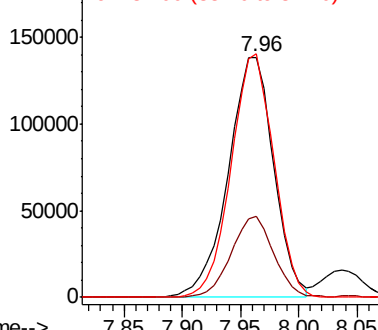


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#35

Trichloroethene

Concen: 2.403 ug/L

RT: 8.84 min Scan# 1138

Delta R.T. -0.26 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

Tgt Ion: 95 Resp: 4971

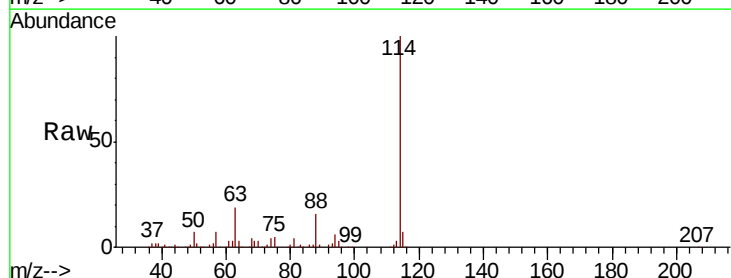
Ion Ratio Lower Upper

95 100

97 7.6 45.2 84.0#

132 0.0 73.3 136.1#

130 0.0 77.5 143.9#



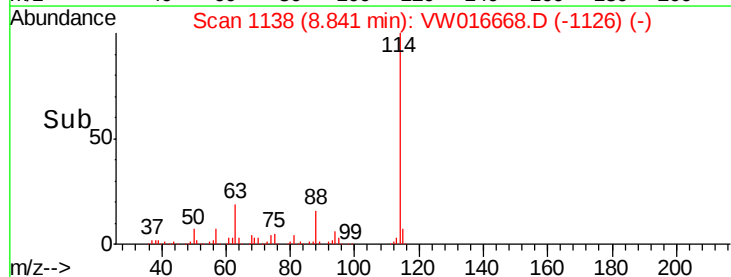
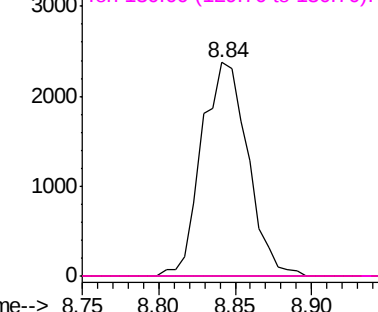
Abundance

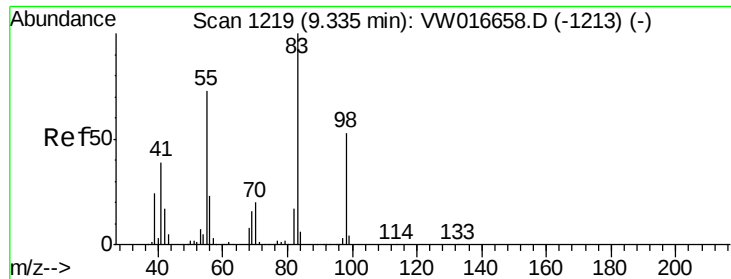
Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

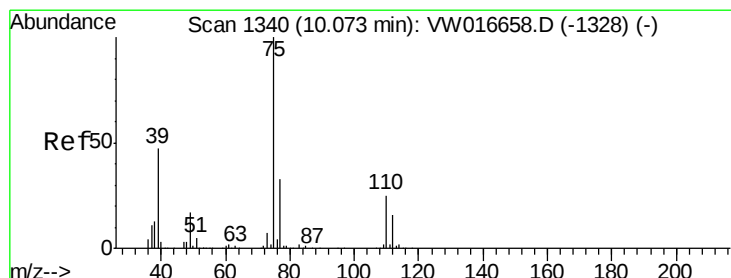
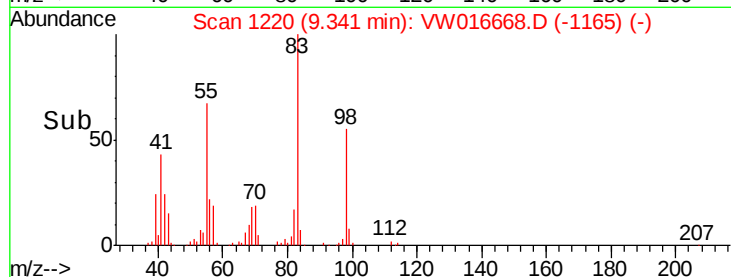
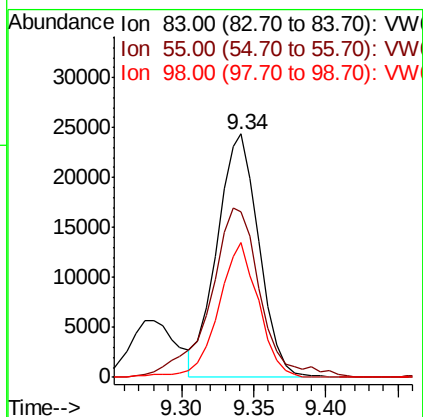
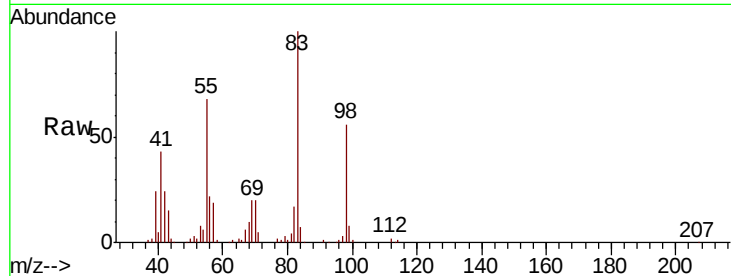




#36
Methylcyclohexane
Concen: 14.083 ug/L
RT: 9.34 min Scan# 1220
Delta R.T. 0.01 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

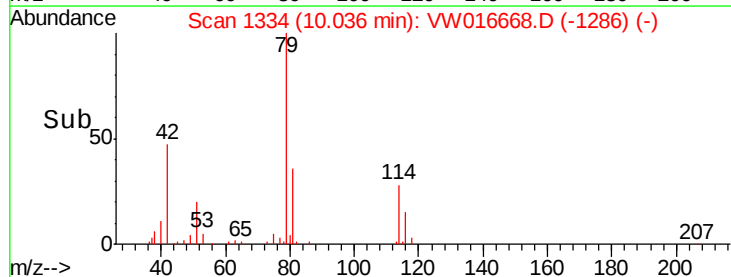
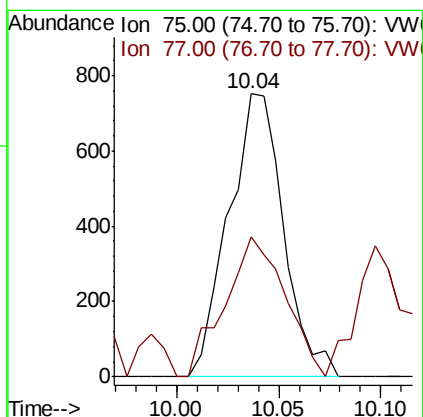
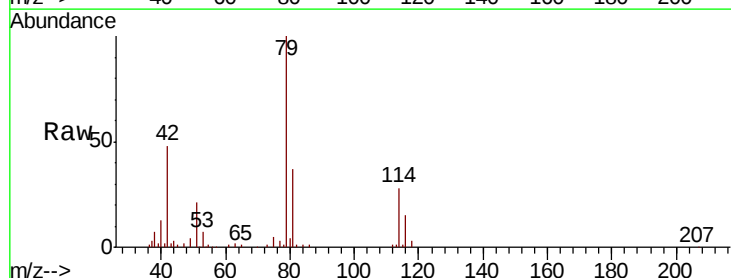
Instrument :
MSVOA_W
ClientSampled :
BG3Y7

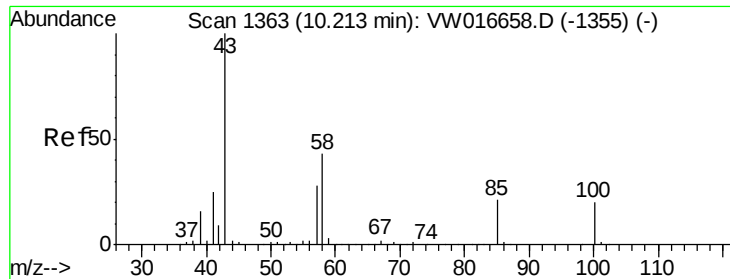
Tot Ion: 83 Resp: 49414
Ion Ratio Lower Upper
83 100
55 81.8 55.9 83.9
98 52.3 42.1 63.1



#42
cis-1,3-Dichloropropene
Concen: 0.494 ug/L
RT: 10.04 min Scan# 1334
Delta R.T. -0.04 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

Tgt Ion: 75 Resp: 1404
Ion Ratio Lower Upper
75 100
77 49.3 22.2 41.2#

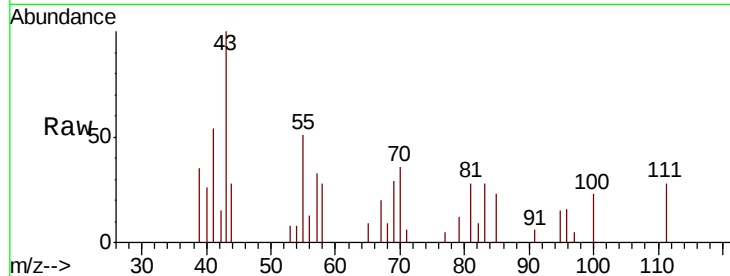




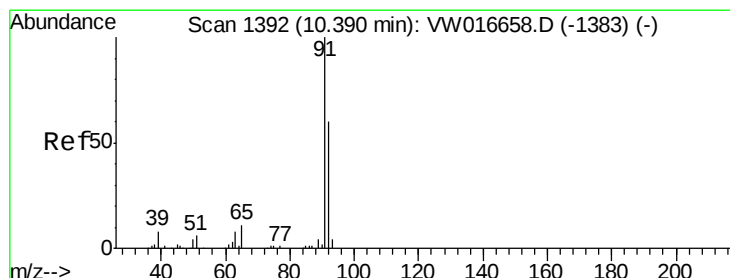
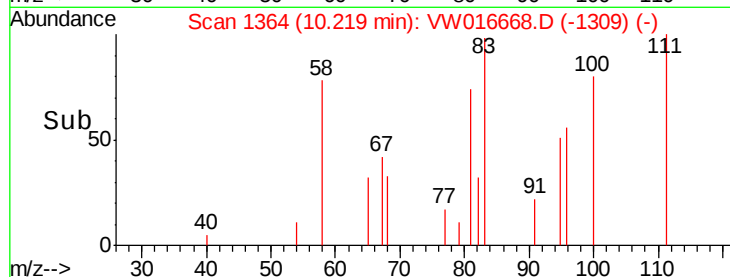
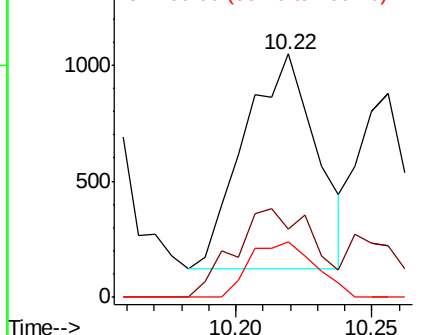
#43
4-Methyl-2-pentanone
Concen: 1.614 ug/L
RT: 10.22 min Scan# 1364
Delta R.T. 0.01 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

Instrument :
MSVOA_W
ClientSampleId :
BG3Y7

Tot Ion: 43 Resp: 1705
Ion Ratio Lower Upper
43 100
58 45.6 32.2 48.4
100 23.3 15.8 23.6

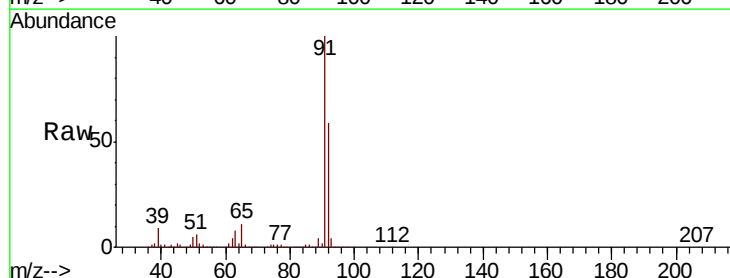


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 100.00 (99.70 to 100.70): VW

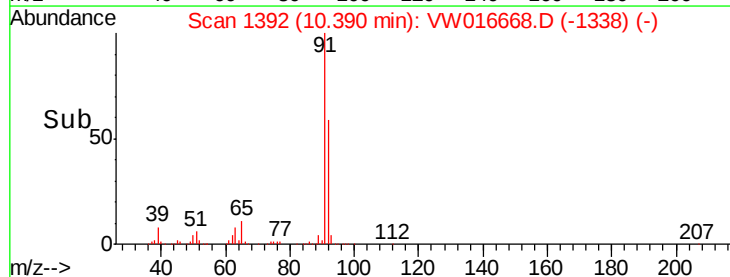
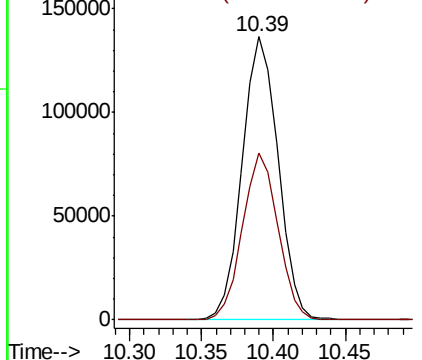


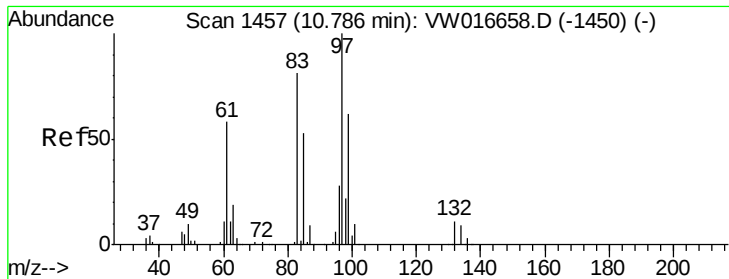
#44
Toluene
Concen: 29.258 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

Tgt Ion: 91 Resp: 235221
Ion Ratio Lower Upper
91 100
92 58.9 39.6 73.6



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW

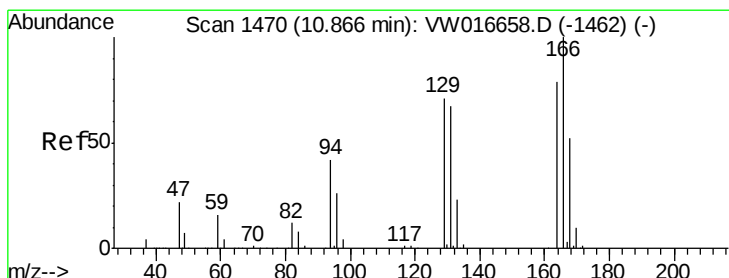
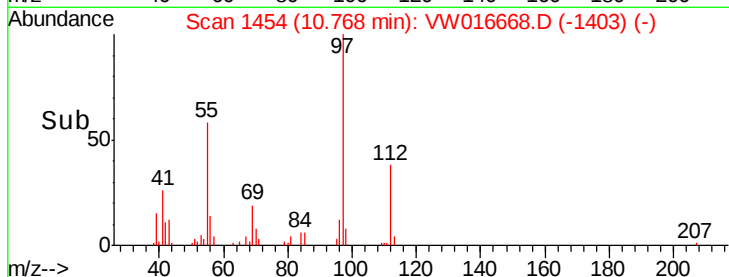
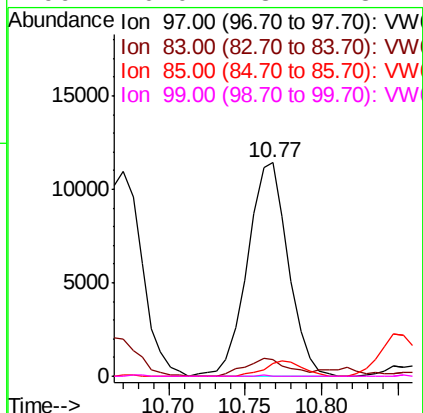
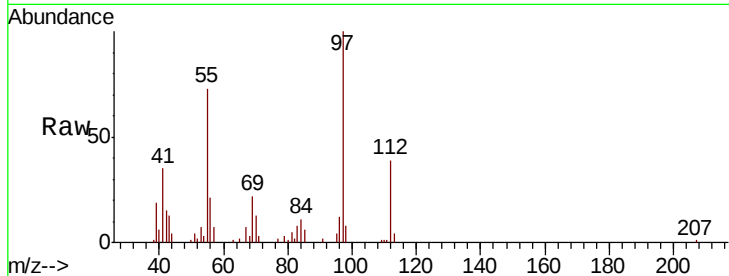




#46
 1,1,2-Trichloroethane
 Concen: 15.140 ug/L
 RT: 10.77 min Scan# 1454
 Delta R.T. -0.02 min
 Lab File: VW016668.D
 Acq: 28 Sep 2020 14:47

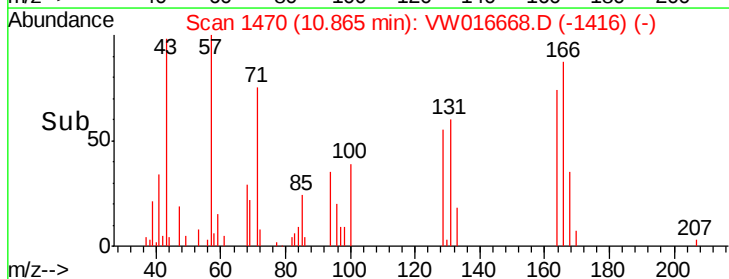
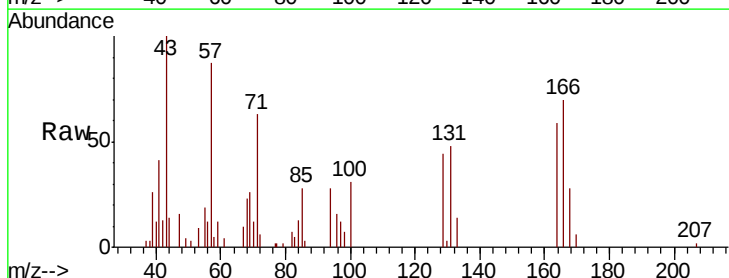
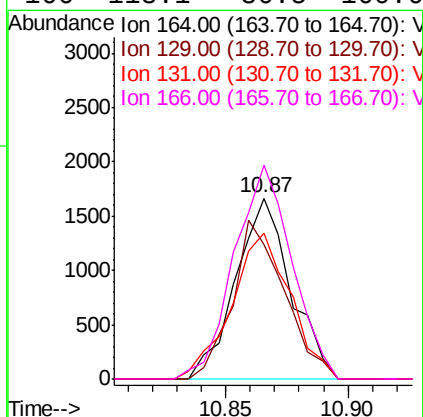
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y7

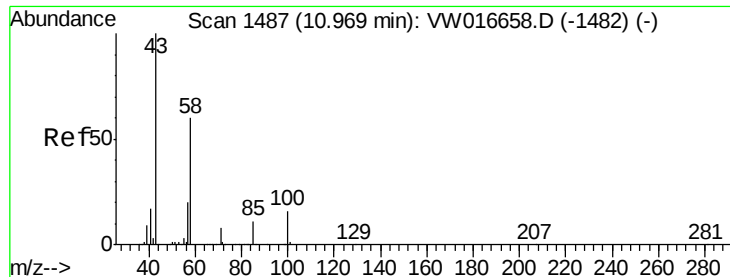
Tot Ion: 97 Resp: 21209
 Ion Ratio Lower Upper
 97 100
 83 7.7 55.7 103.5#
 85 6.2 36.8 68.4#
 99 0.0 43.7 81.1#



#47
 Tetrachloroethene
 Concen: 1.400 ug/L
 RT: 10.87 min Scan# 1470
 Delta R.T. -0.00 min
 Lab File: VW016668.D
 Acq: 28 Sep 2020 14:47

Tgt Ion: 164 Resp: 2615
 Ion Ratio Lower Upper
 164 100
 129 74.5 55.6 103.2
 131 80.8 57.2 106.2
 166 118.1 86.5 160.6

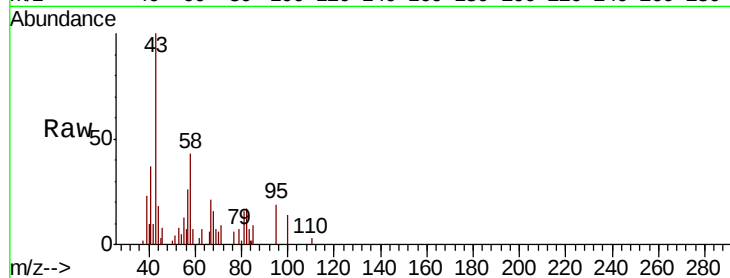




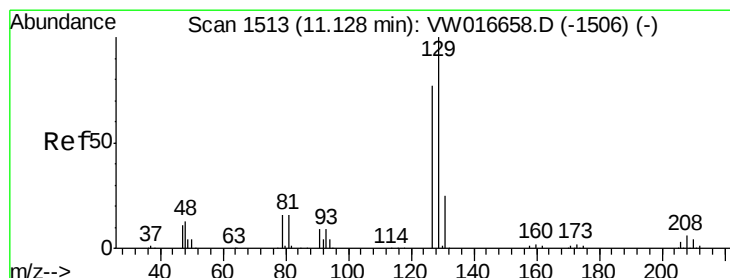
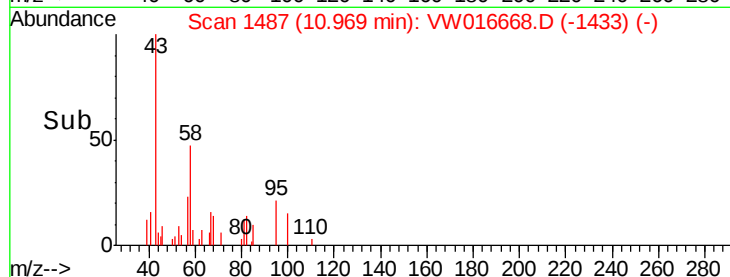
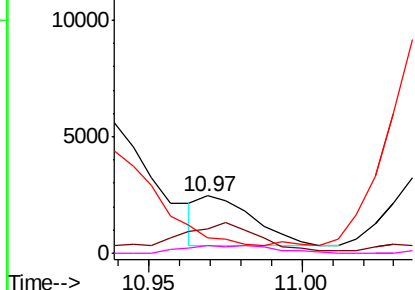
#49
2-Hexanone
Concen: 3.752 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

Instrument :
MSVOA_W
ClientSampleId :
BG3Y7

Tot Ion:	43.00	Resp:	2516
Ion	Ratio	Lower	Upper
43	100		
58	93.0	44.2	66.2#
57	14.6	16.3	24.5#
100	14.7	12.4	18.6

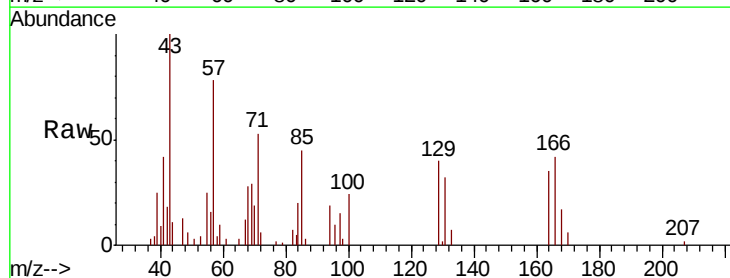


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

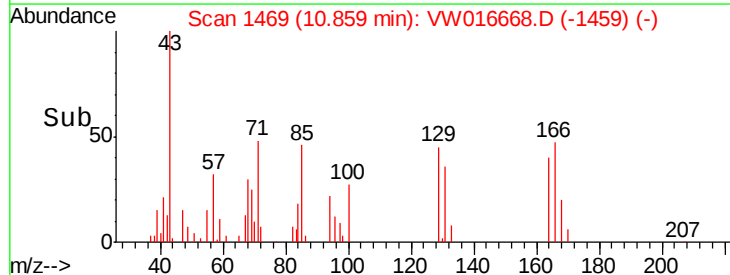
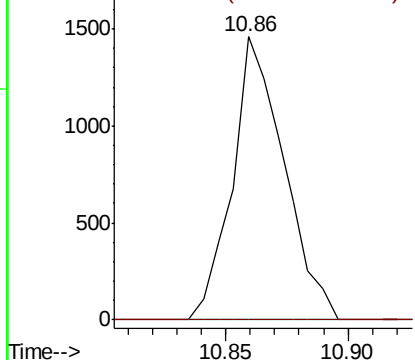


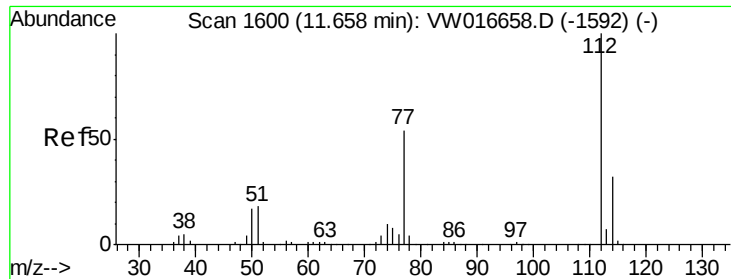
#50
Dibromochloromethane
Concen: 1.175 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.27 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

Tgt Ion:	129.00	Resp:	2149
Ion	Ratio	Lower	Upper
129	100		
127	0.0	52.4	97.4#



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

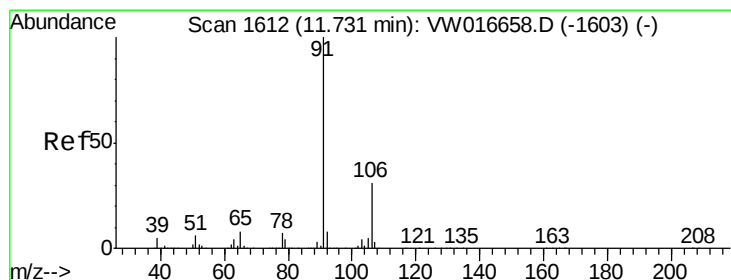
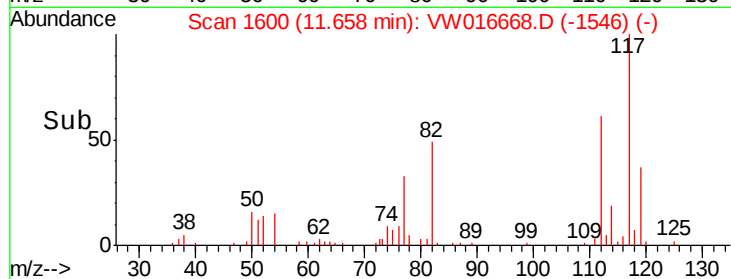
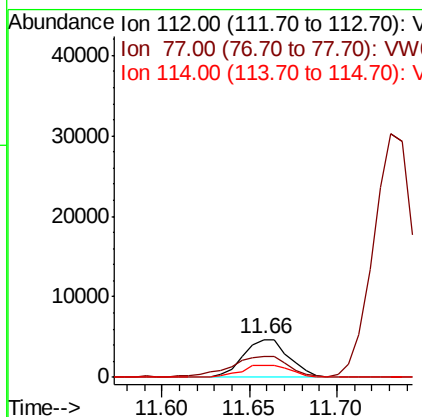
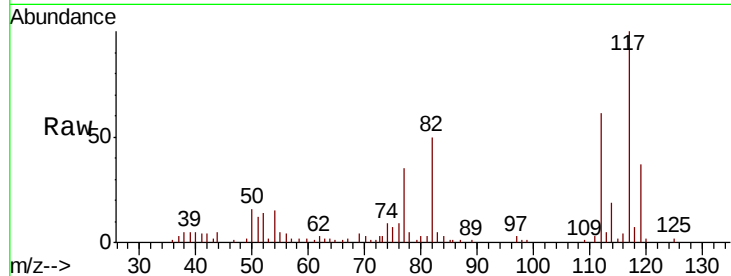




#52
Chlorobenzene
Concen: 1.573 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

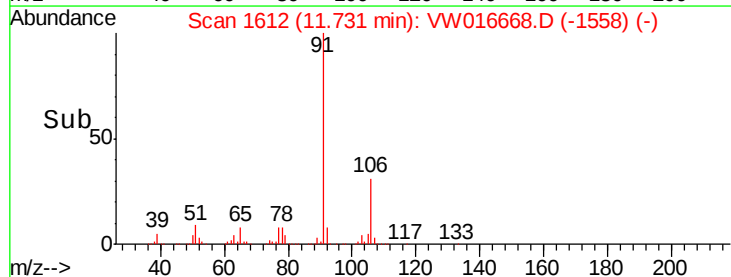
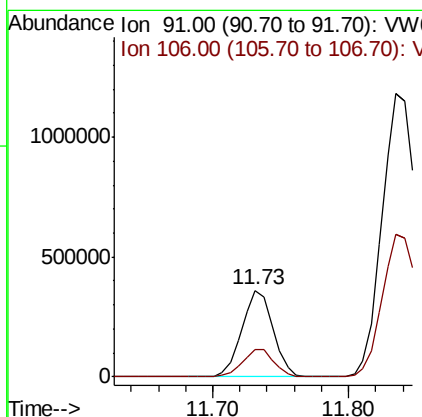
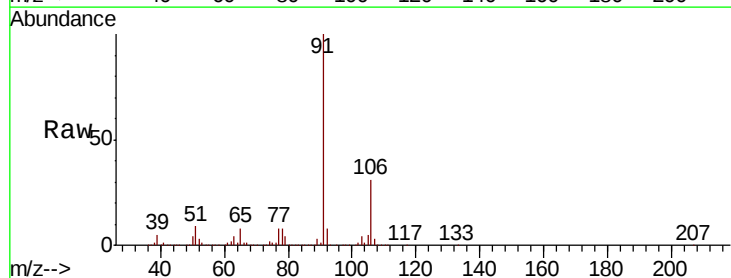
Instrument :
MSVOA_W
ClientSampleId :
BG3Y7

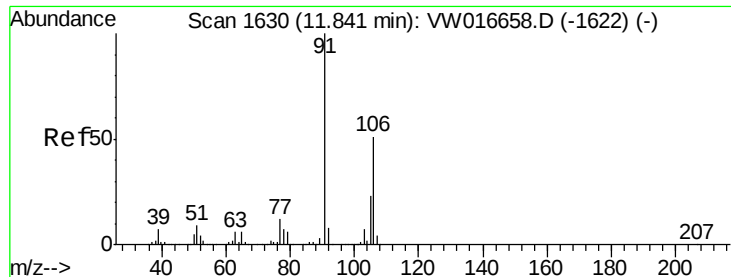
Tot Ion: 112 Resp: 8495
Ion Ratio Lower Upper
112 100
77 56.7 43.1 64.7
114 31.7 22.3 41.3



#53
Ethylbenzene
Concen: 63.548 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW016668.D
Acq: 28 Sep 2020 14:47

Tgt Ion: 91 Resp: 580042
Ion Ratio Lower Upper
91 100
106 31.2 20.7 38.5





#54

m,p-Xylene

Concen: 307.801 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

Instrument :

MSVOA_W

ClientSampleId :

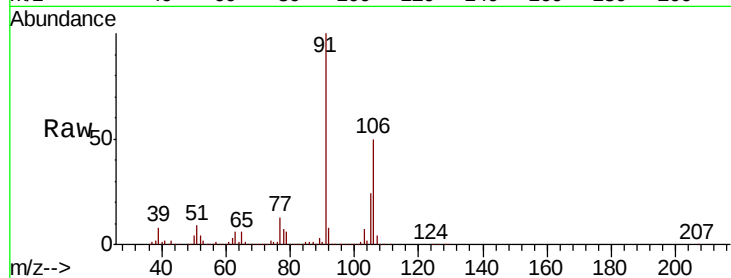
BG3Y7

Tot Ion:106 Resp: 1100111

Ion Ratio Lower Upper

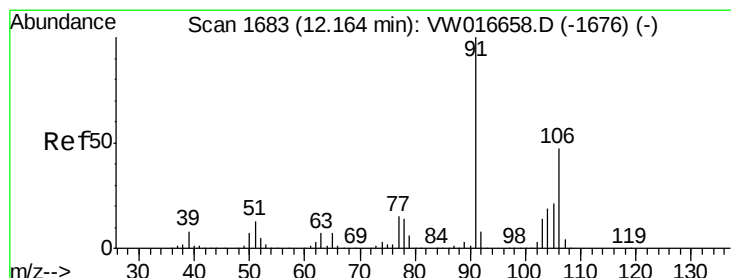
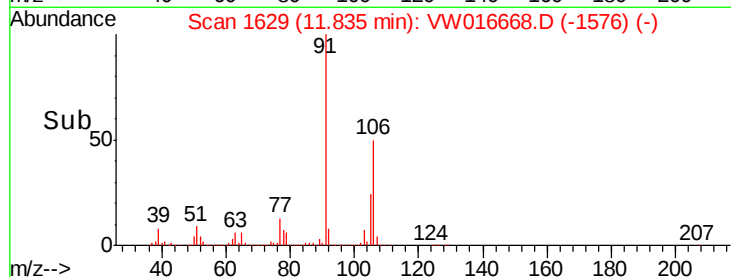
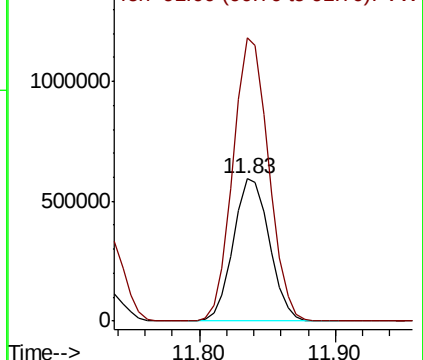
106 100

91 198.9 139.7 259.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 82.937 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW016668.D

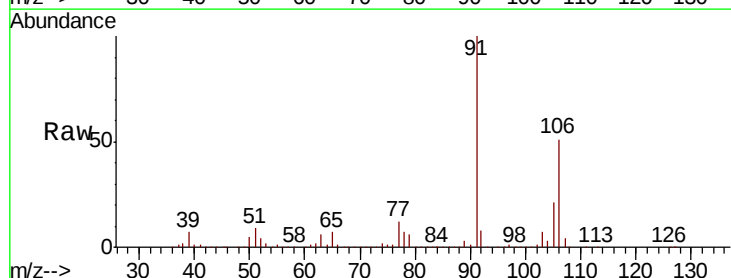
Acq: 28 Sep 2020 14:47

Tgt Ion:106 Resp: 283985

Ion Ratio Lower Upper

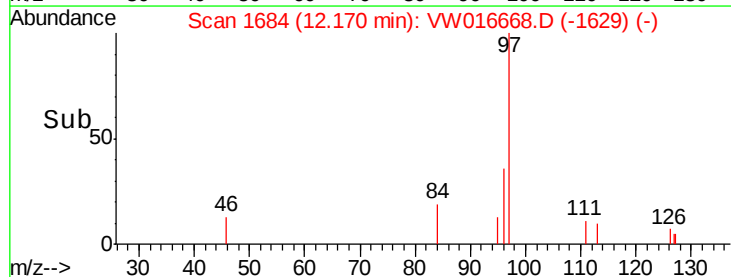
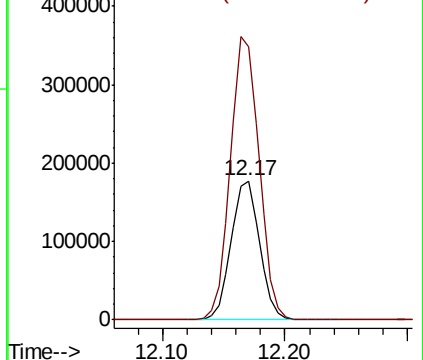
106 100

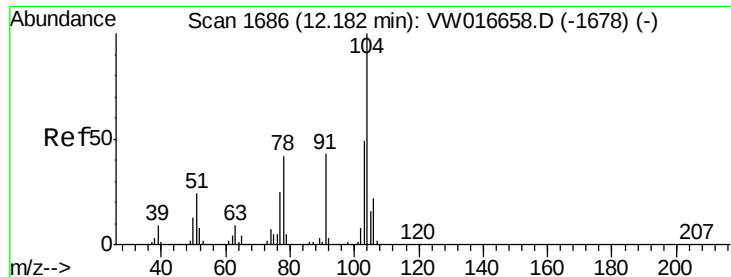
91 196.4 144.8 268.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 2.453 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

Instrument :

MSVOA_W

ClientSampleId :

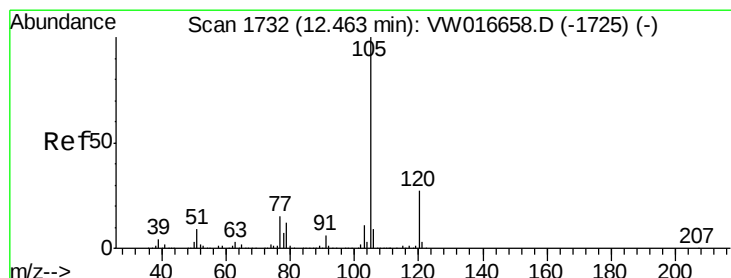
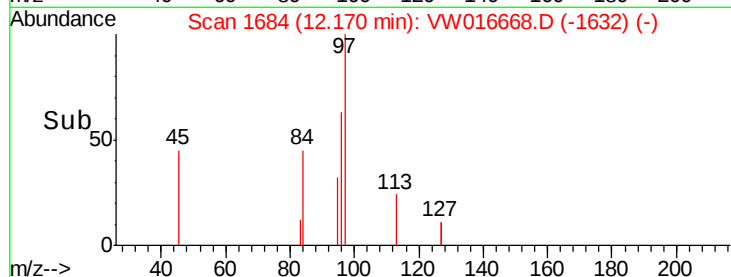
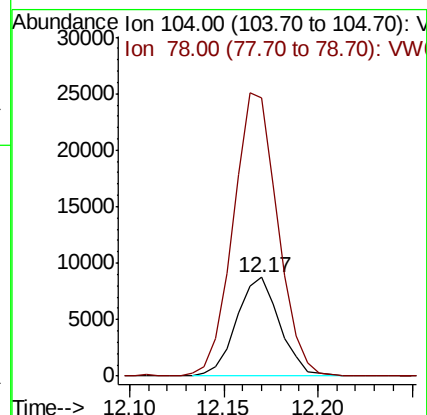
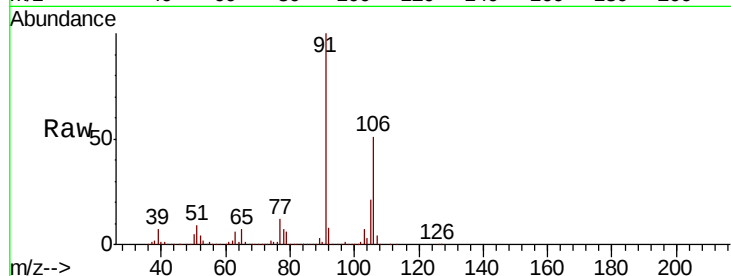
BG3Y7

Tot Ion:104 Resp: 13945

Ion Ratio Lower Upper

104 100

78 282.4 31.4 58.2#



#57

Isopropylbenzene

Concen: 19.003 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

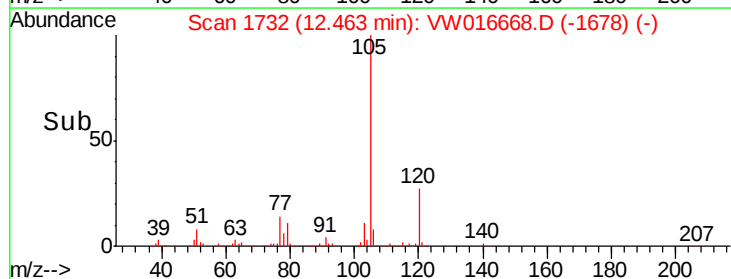
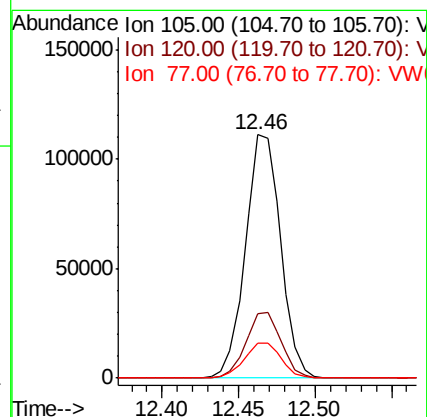
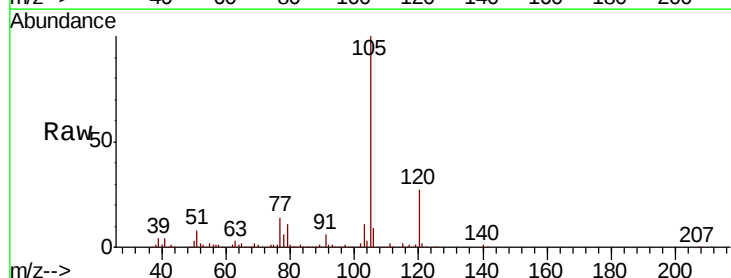
Tgt Ion:105 Resp: 177799

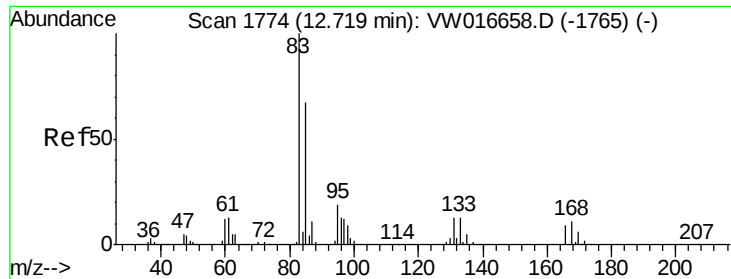
Ion Ratio Lower Upper

105 100

120 26.9 21.8 32.8

77 14.8 12.2 18.2





#58

1,1,2,2-Tetrachloroethane

Concen: 0.447 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

Instrument :

MSVOA_W

ClientSampleId :

BG3Y7

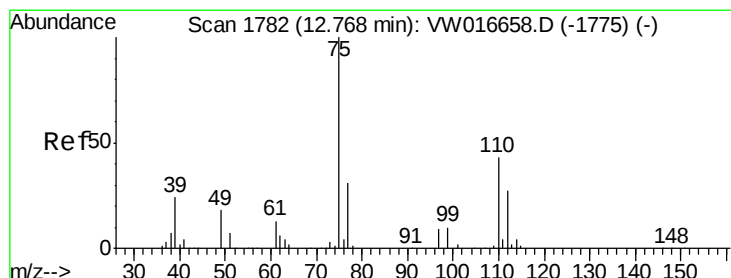
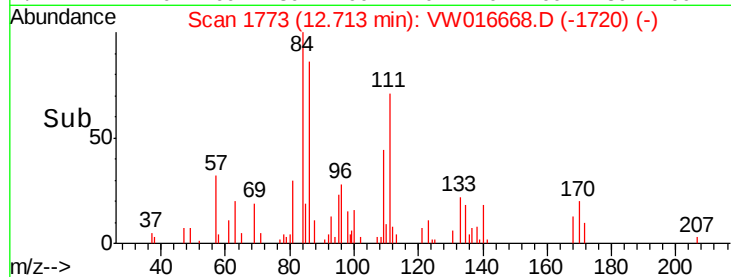
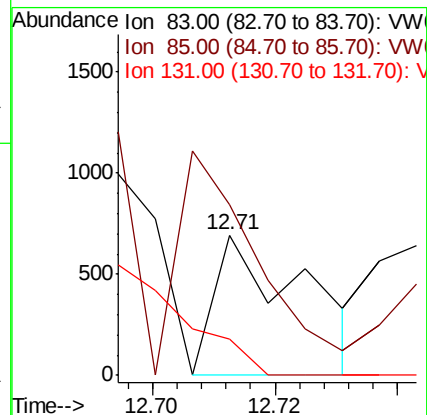
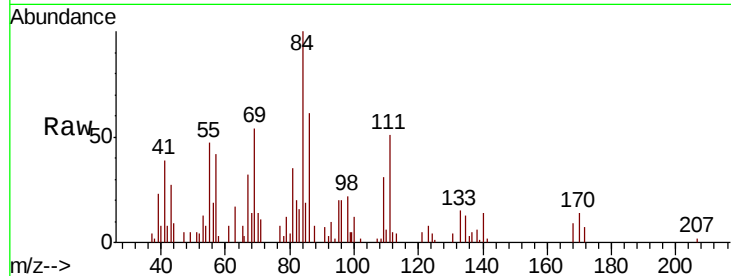
Tot Ion: 83 Resp: 701

Ion Ratio Lower Upper

83 100

85 121.3 46.0 85.4#

131 25.8 9.0 13.6#



#59

1,2,3-Trichloropropane

Concen: 2.698 ug/L

RT: 12.80 min Scan# 1788

Delta R.T. 0.04 min

Lab File: VW016668.D

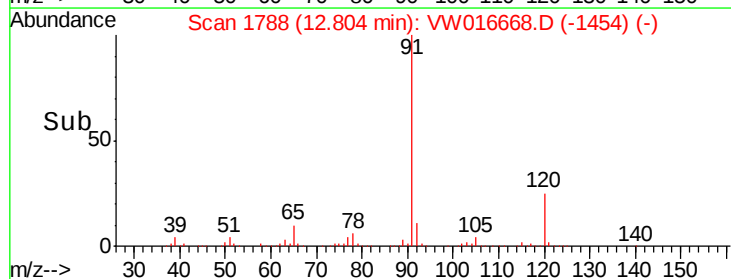
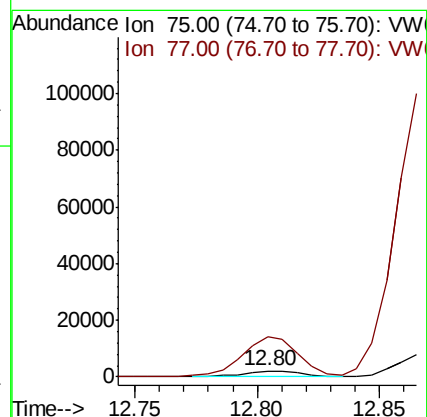
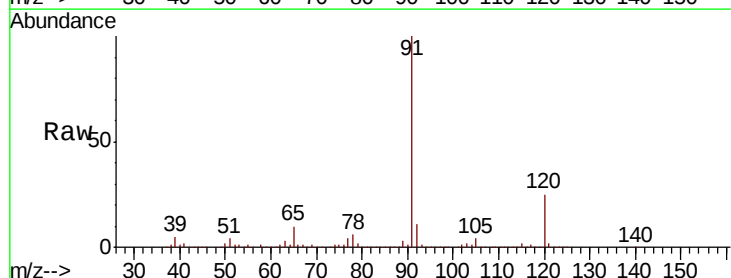
Acq: 28 Sep 2020 14:47

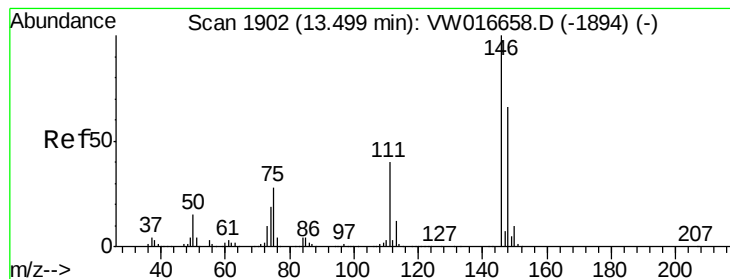
Tgt Ion: 75 Resp: 3148

Ion Ratio Lower Upper

75 100

77 686.1 26.2 39.4#





#63

1,3-Dichlorobenzene

Concen: 0.991 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

Instrument :

MSVOA_W

ClientSampleId :

BG3Y7

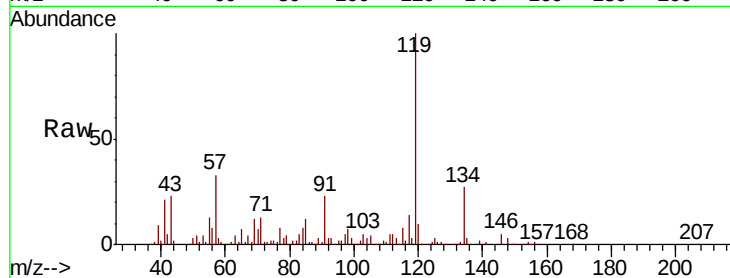
Tot Ion:146 Resp: 3345

Ion Ratio Lower Upper

146 100

111 104.9 25.0 46.4#

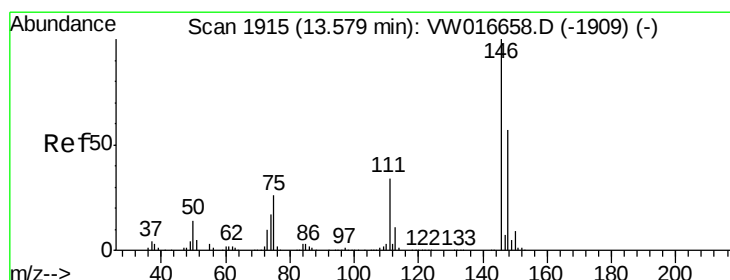
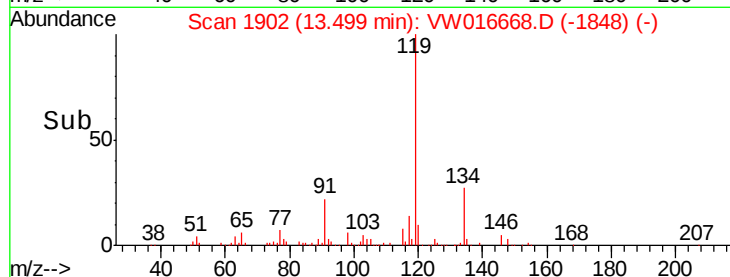
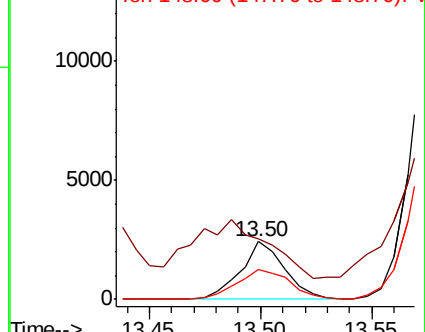
148 52.1 44.0 81.8



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: 6.375 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

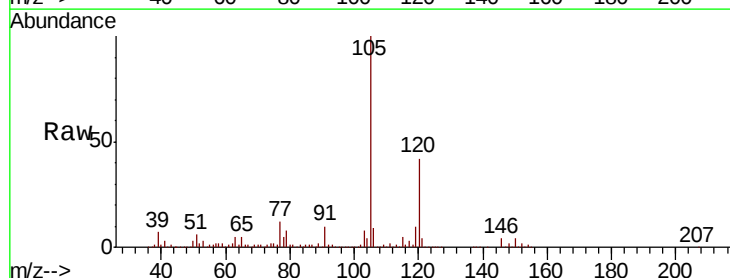
Tgt Ion:146 Resp: 21063

Ion Ratio Lower Upper

146 100

111 68.5 25.1 46.5#

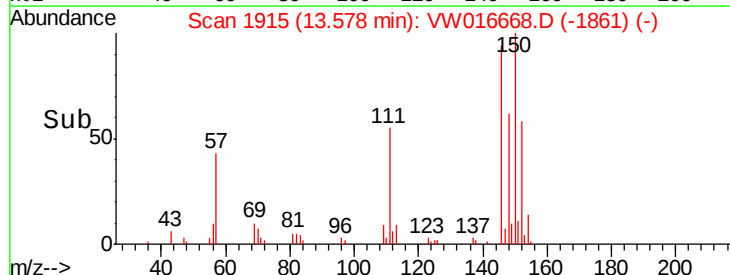
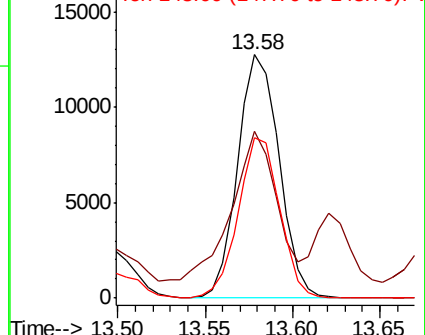
148 65.8 42.3 78.5

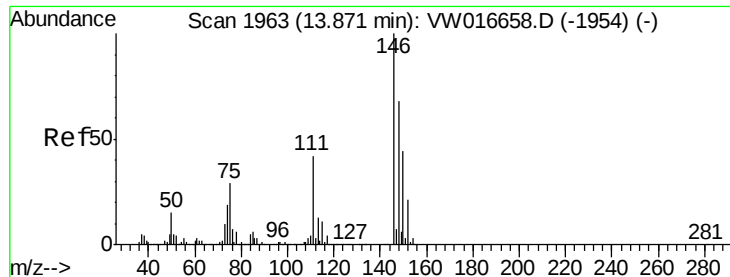


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

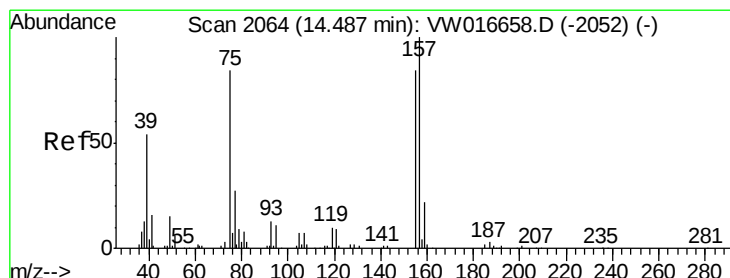
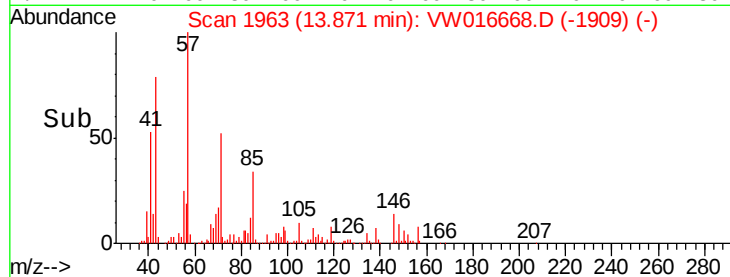
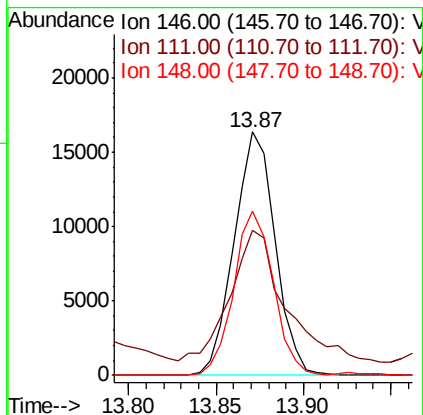
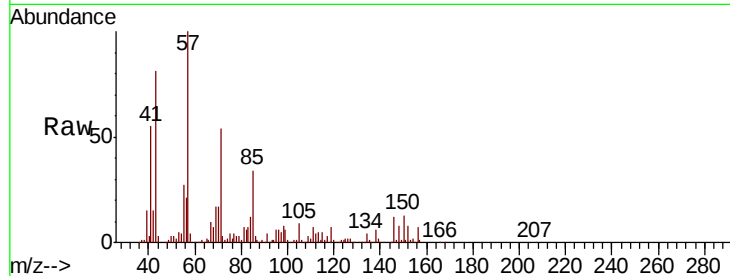




#65
 1,2-Dichlorobenzene
 Concen: 8.855 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW016668.D
 Acq: 28 Sep 2020 14:47

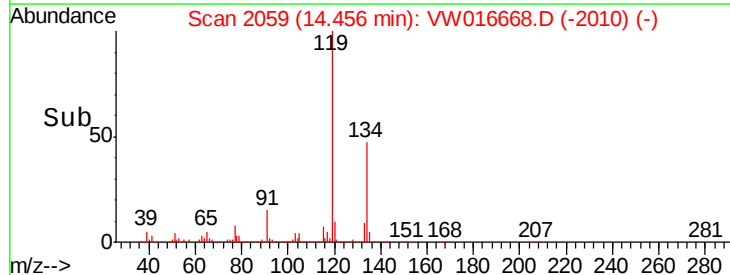
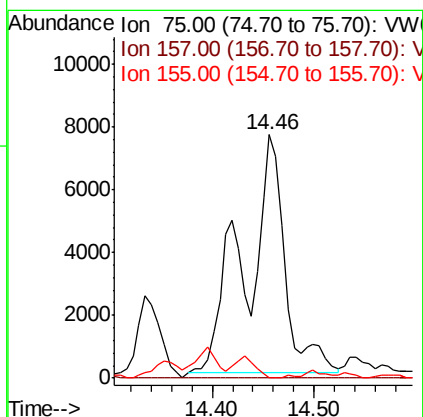
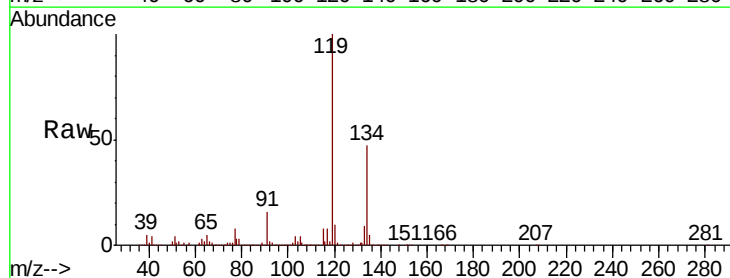
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y7

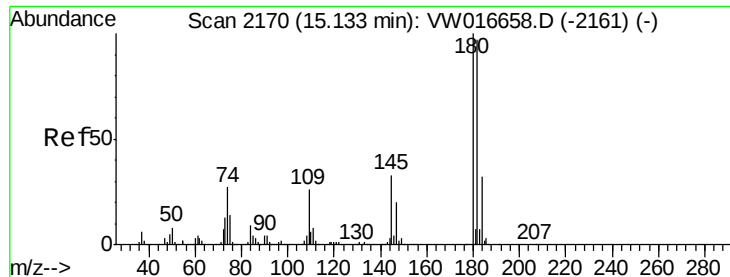
Tot Ion	Ratio	Lower	Upper
146	100		
111	59.6	31.4	47.0#
148	67.5	49.3	73.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 95.700 ug/L
 RT: 14.46 min Scan# 2059
 Delta R.T. -0.03 min
 Lab File: VW016668.D
 Acq: 28 Sep 2020 14:47

Tgt Ion	Ratio	Lower	Upper
75	100		
157	0.0	92.2	138.4#
155	0.0	73.5	110.3#

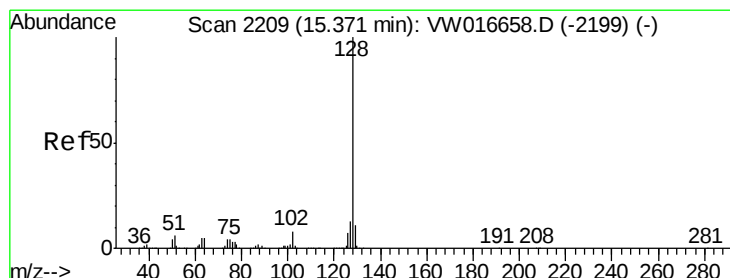
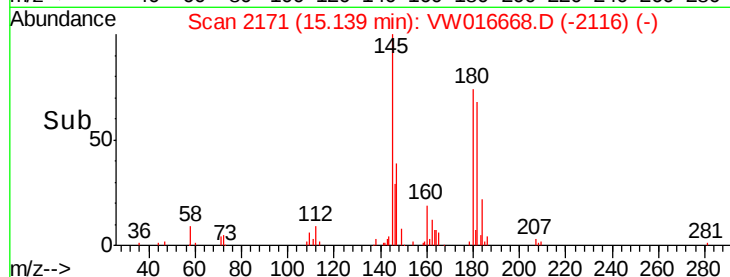
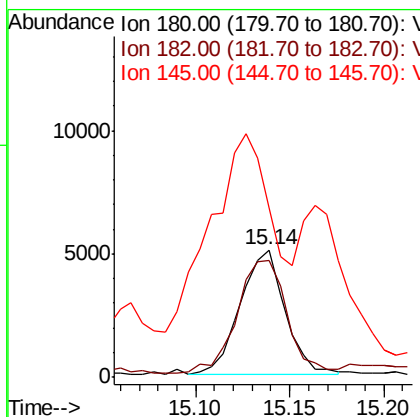
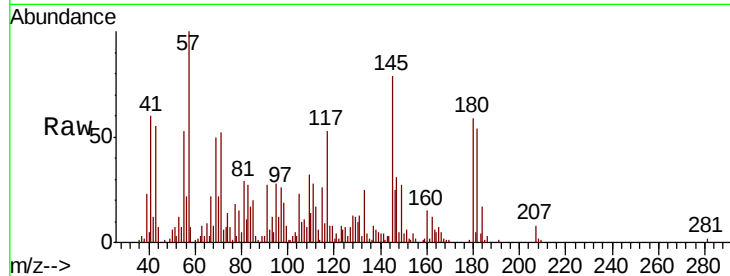




#68
 1,2,4-trichlorobenzene
 Concen: 4.127 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW016668.D
 Acq: 28 Sep 2020 14:47

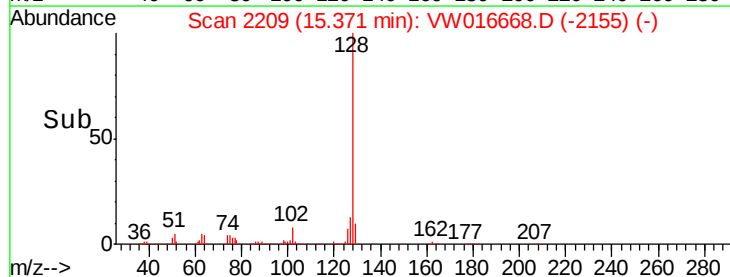
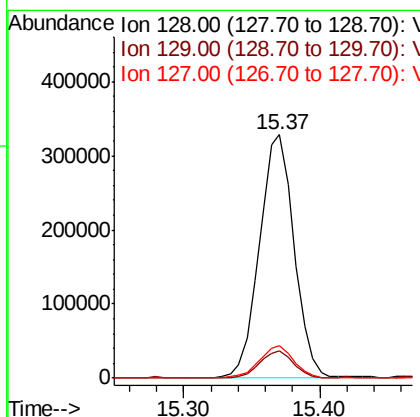
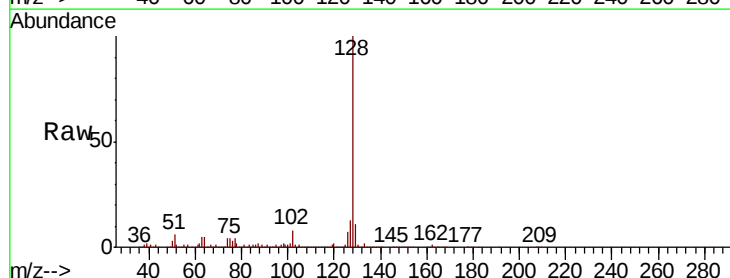
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y7

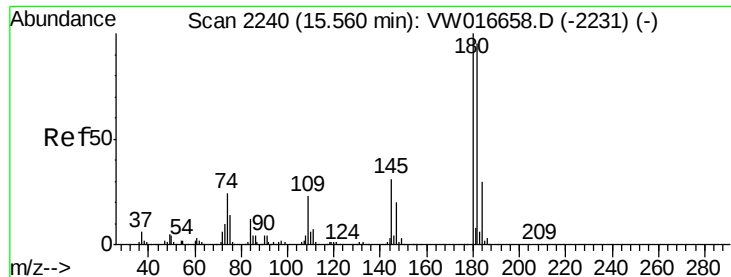
Tot Ion:180 Resp: 8237
 Ion Ratio Lower Upper
 180 100
 182 103.6 74.5 111.7
 145 292.1 23.1 34.7#



#69
 Naphthalene
 Concen: 165.464 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.00 min
 Lab File: VW016668.D
 Acq: 28 Sep 2020 14:47

Tgt Ion:128 Resp: 585450
 Ion Ratio Lower Upper
 128 100
 129 10.6 8.9 13.3
 127 13.0 10.8 16.2





#70

1,2,3-Trichlorobenzene

Concen: 0.437 ug/L

RT: 15.57 min Scan# 2242

Delta R.T. 0.01 min

Lab File: VW016668.D

Acq: 28 Sep 2020 14:47

Instrument :

MSVOA_W

ClientSampleId :

BG3Y7

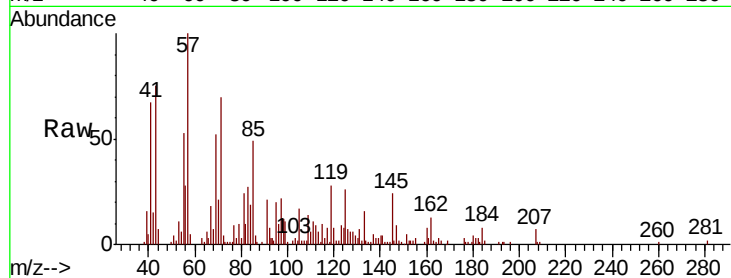
Tot Ion:180 Resp: 751

Ion Ratio Lower Upper

180 100

182 46.3 76.3 114.5#

145 1398.7 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

