

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VOX092820\
 Data File : VX018638.D
 Acq On : 29 Sep 2020 00:34
 Operator : JC/SP
 Sample : L4135-18
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG496

Quant Time: Sep 29 02:42:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR092820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 29 02:30:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	356475	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	334537	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	169479	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	78087	4.19	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.80%
7) Chloroethane-d5	1.70	69	70146	4.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.20%
11) 1,1-Dichloroethene-d2	2.34	63	136289	3.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.20%
20) 2-Butanone-d5	4.54	46	236196	49.66	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.32%
24) Chloroform-d	5.14	84	183611	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.00%
26) 1,2-Dichloroethane-d4	6.03	65	99876	3.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.60%
32) Benzene-d6	6.05	84	355648	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
36) 1,2-Dichloropropane-d6	7.37	67	112544	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.60%
41) Toluene-d8	8.70	98	331150	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.20%
45) trans-1,3-Dichloropropene-	8.99	79	44290	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
48) 2-Hexanone-d5	9.43	63	196479	52.43	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.86%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	80220	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.60%
65) 1,2-Dichlorobenzene-d4	12.36	152	128780	4.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.00%

Target Compounds

					Ovalue
3) Chloromethane	1.31	50	2588	0.140 ug/L #	78
5) Vinyl chloride	1.39	62	2033	0.105 ug/L #	1
8) Chloroethane	1.72	64	34247	3.227 ug/L #	81
12) 1,1-Dichloroethene	2.34	96	2429	0.140 ug/L #	1
13) Acetone	2.44	43	3813	1.448 ug/L	66
15) Methyl Acetate	2.82	43	16876	2.316 ug/L #	50
16) Methylene chloride	2.84	84	3666	0.154 ug/L	91
18) trans-1,2-Dichloroethene	3.15	96	1795	0.103 ug/L	97
19) 1,1-Dichloroethane	3.67	63	5858	0.188 ug/L #	80
22) cis-1,2-Dichloroethene	4.56	96	9097	0.501 ug/L #	93
27) 1,2-Dichloroethane	6.12	62	23244	1.078 ug/L #	76
30) Cyclohexane	5.55	56	19639	0.775 ug/L	98
33) Benzene	6.11	78	2463719	38.197 ug/L	100
35) Methylcyclohexane	7.44	83	12541	0.483 ug/L	93
39) cis-1,3-Dichloropropene	8.37	75	3843	0.157 ug/L	98
42) Toluene	8.76	91	134760	1.934 ug/L	96
43) 1,3,5-Trimethylbenzene	11.79	105	15901	0.261 ug/L	97

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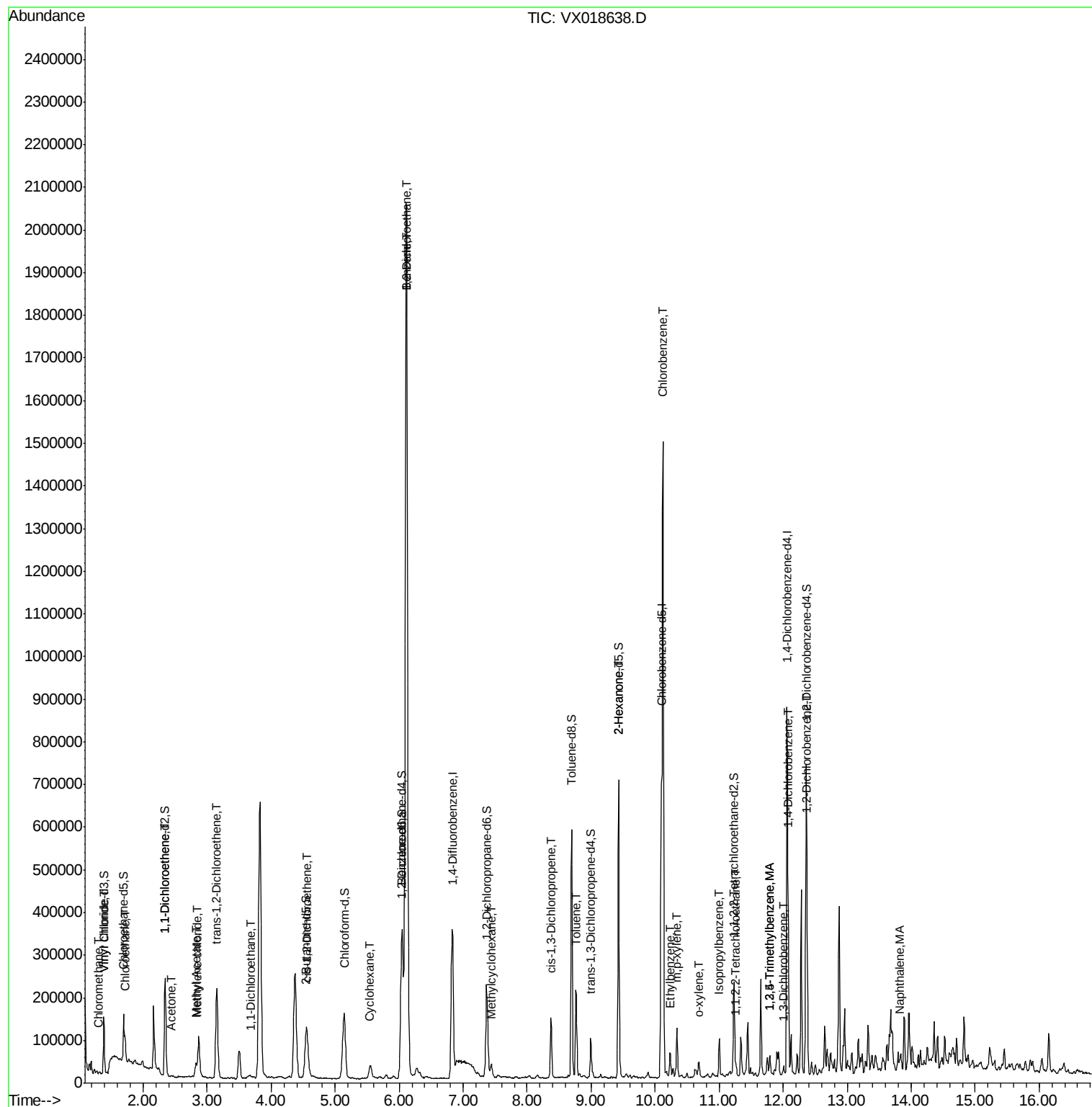
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2,4-Trimethylbenzene	11.79	105	15901	0.261	ug/L	98
50) 2-Hexanone	9.43	43	22923	3.395	ug/L #	69
53) Chlorobenzene	10.12	112	638907	13.882	ug/L	97
54) Ethylbenzene	10.23	91	32175	0.424	ug/L	99
55) m,p-xylene	10.34	106	24440	0.842	ug/L	99
56) o-xylene	10.68	106	7716	0.281	ug/L	98
58) Isopropylbenzene	11.01	105	46809	0.637	ug/L	96
60) 1,1,2,2-Tetrachloroethane	11.26	83	2435	0.175	ug/L #	34
63) 1,3-Dichlorobenzene	12.01	146	5069	0.138	ug/L	98
64) 1,4-Dichlorobenzene	12.08	146	81558	2.191	ug/L	96
66) 1,2-Dichlorobenzene	12.38	146	86463	2.519	ug/L	100
70) Naphthalene	13.82	128	11334	0.296	ug/L #	86

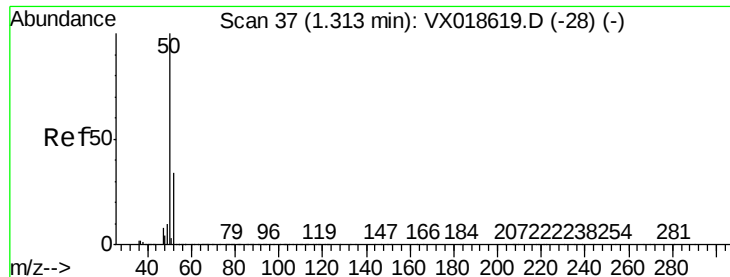
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.140 ug/L

RT: 1.31 min Scan# 36

Delta R.T. -0.01 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampled :

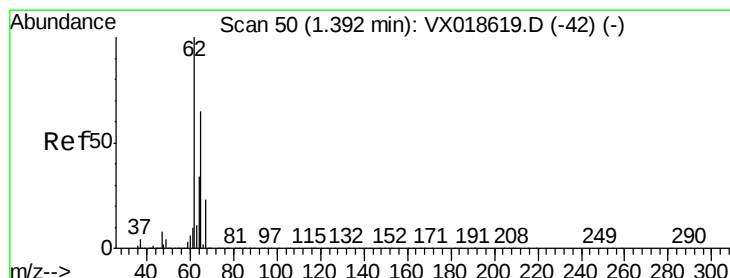
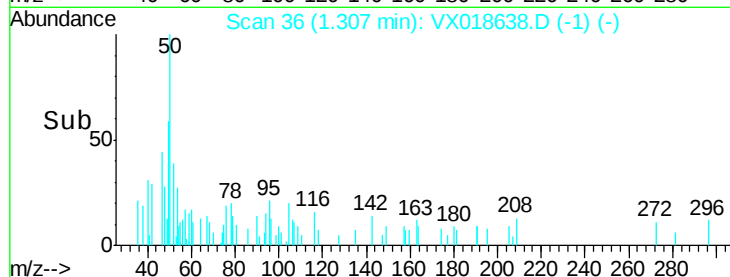
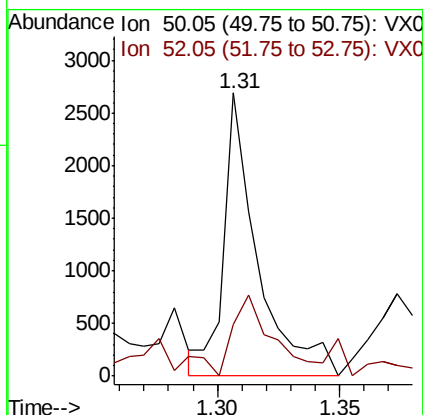
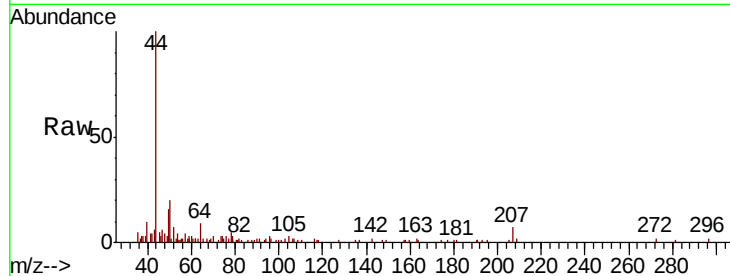
BG496

Tot Ion: 50 Resp: 2588

Ion Ratio Lower Upper

50 100

52 18.1 21.2 39.4#



#5

Vinyl chloride

Concen: 0.105 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX018638.D

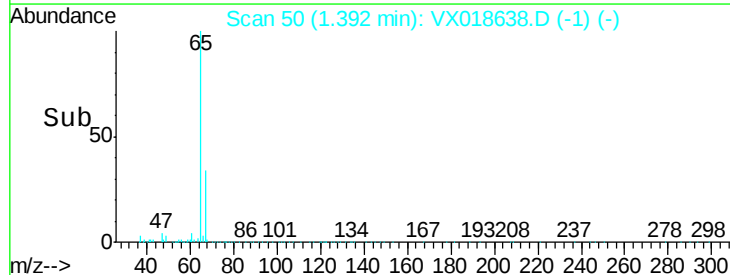
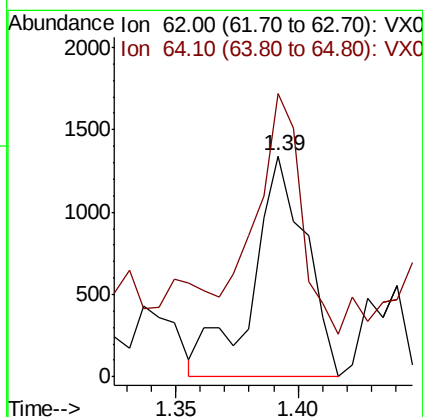
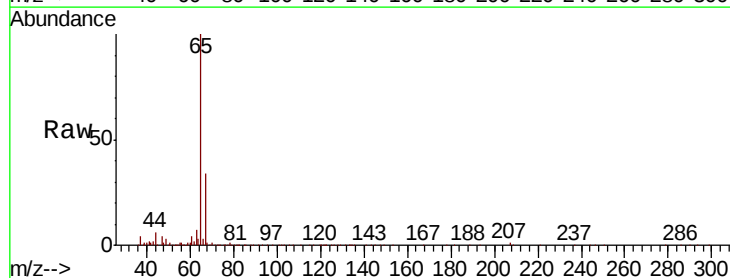
Acq: 29 Sep 2020 00:34

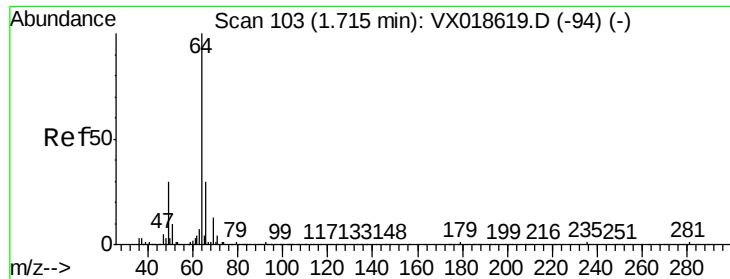
Tgt Ion: 62 Resp: 2033

Ion Ratio Lower Upper

62 100

64 127.9 23.6 43.8#

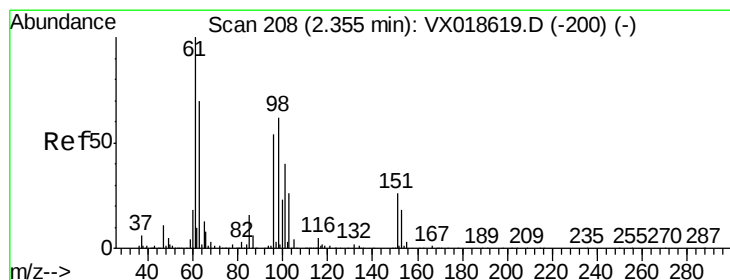
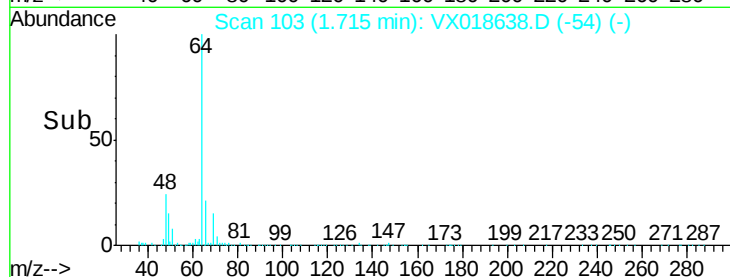
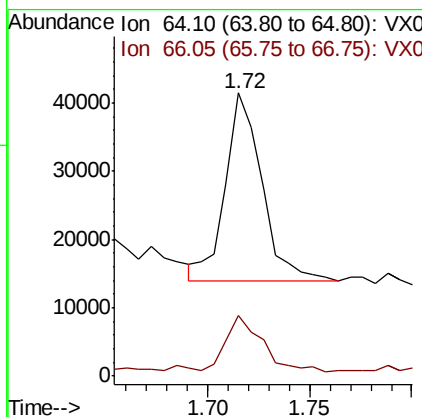
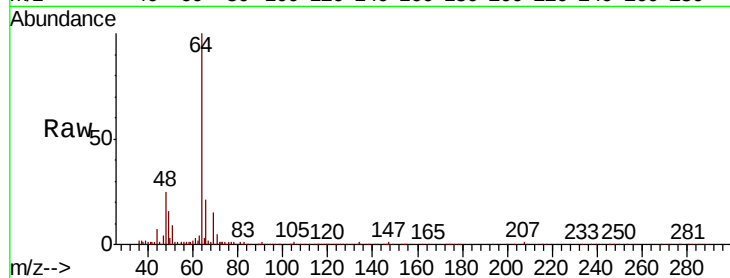




#8
Chloroethane
Concen: 3.227 ug/L
RT: 1.72 min Scan# 103
Delta R.T. -0.00 min
Lab File: VX018638.D
Acq: 29 Sep 2020 00:34

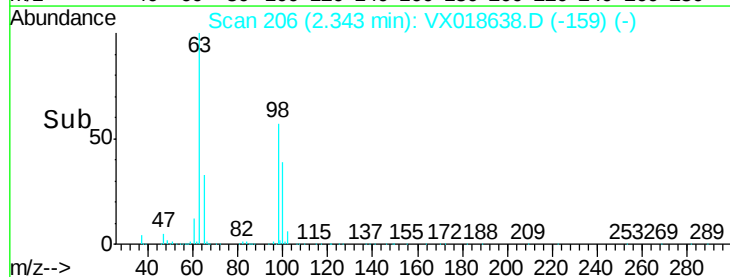
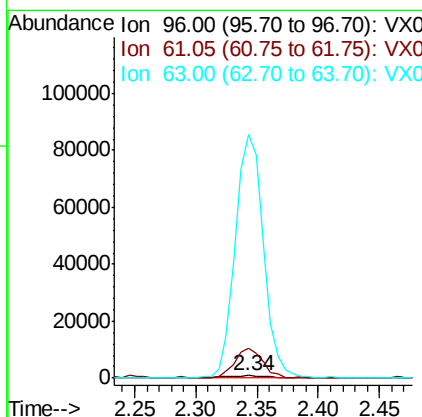
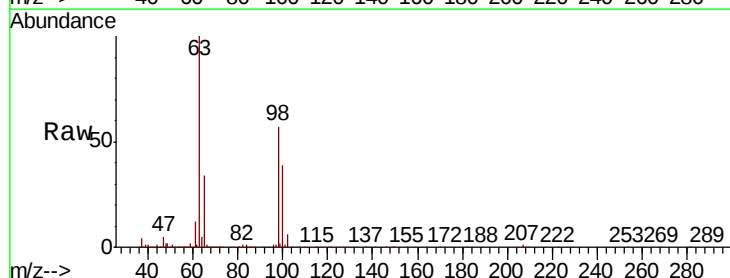
Instrument :
MSVOA_X
ClientSampleId :
BG496

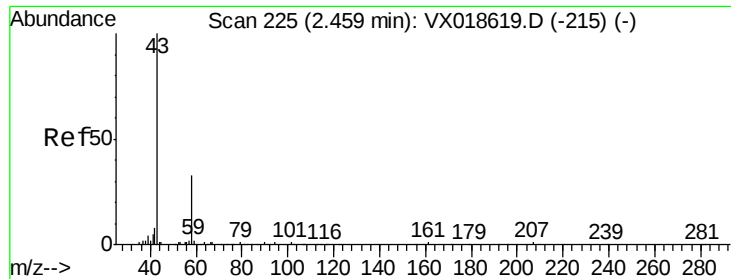
Tot Ion: 64 Resp: 34247
Ion Ratio Lower Upper
64 100
66 21.2 22.3 41.3#



#12
1,1-Dichloroethene
Concen: 0.140 ug/L
RT: 2.34 min Scan# 206
Delta R.T. -0.01 min
Lab File: VX018638.D
Acq: 29 Sep 2020 00:34

Tgt Ion: 96 Resp: 2429
Ion Ratio Lower Upper
96 100
61 1171.2 123.8 229.8#
63 9612.6 104.7 194.4#





#13

Acetone

Concen: 1.448 ug/L

RT: 2.44 min Scan# 222

Delta R.T. -0.02 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

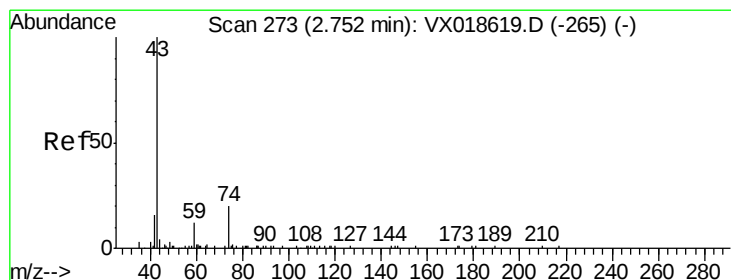
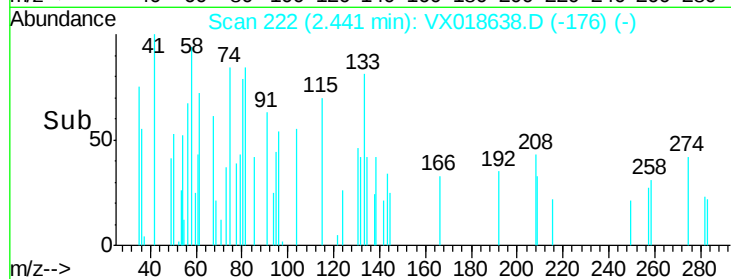
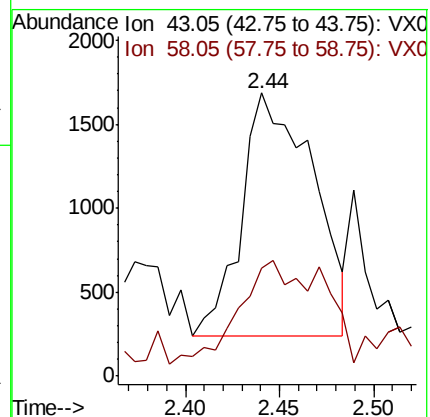
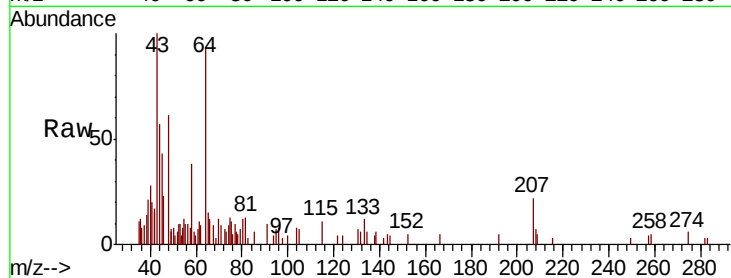
BG496

Tot Ion: 43 Resp: 3813

Ion Ratio Lower Upper

43 100

58 49.5 0.0 61.6



#15

Methyl Acetate

Concen: 2.316 ug/L

RT: 2.82 min Scan# 285

Delta R.T. 0.07 min

Lab File: VX018638.D

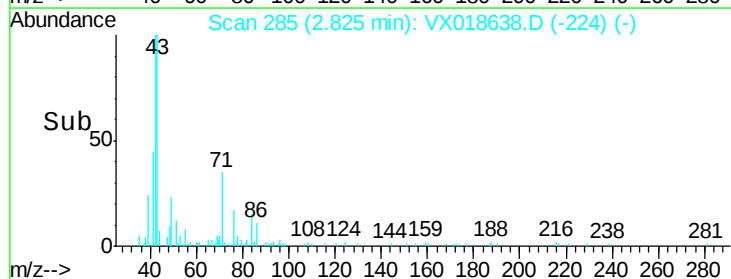
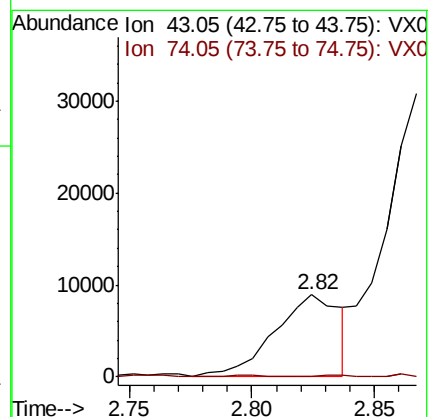
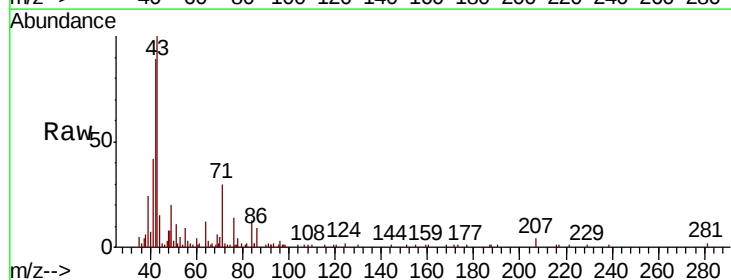
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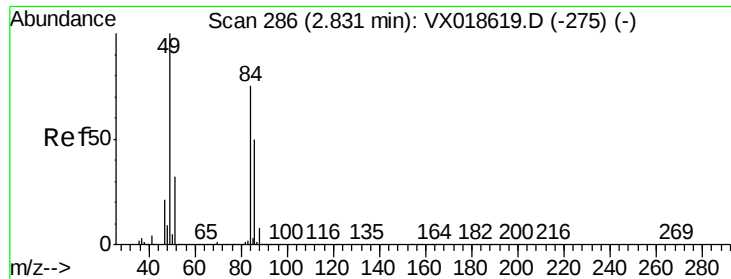
Tgt Ion: 43 Resp: 16876

Ion Ratio Lower Upper

43 100

74 0.9 21.2 31.8#

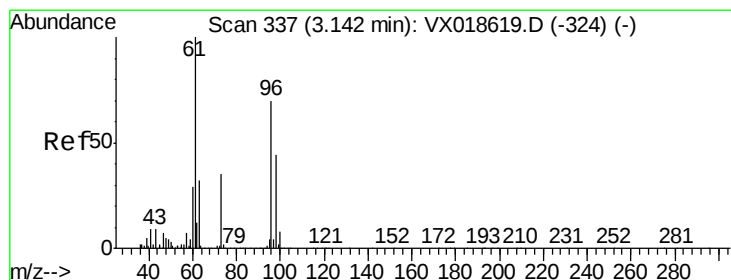
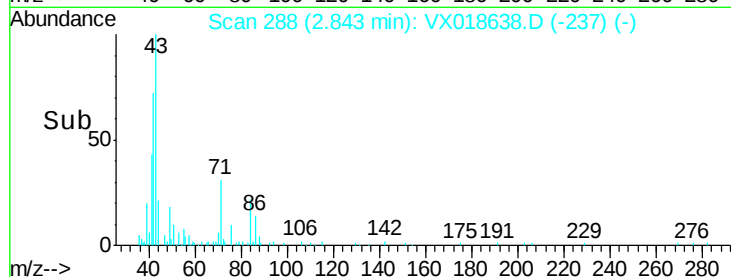
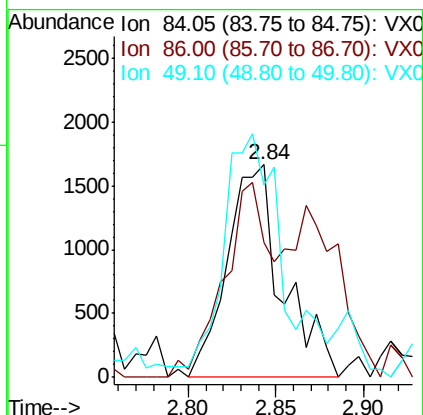
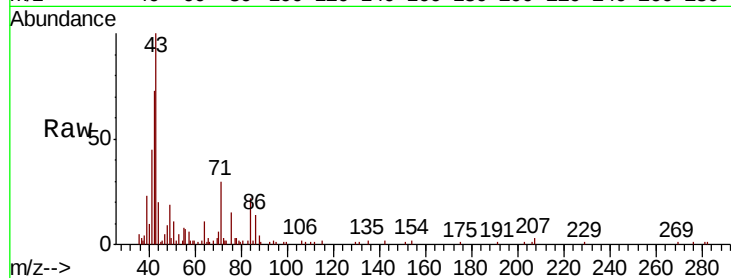




#16
Methvlene chloride
Concen: 0.154 ug/L
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX018638.D
Acq: 29 Sep 2020 00:34

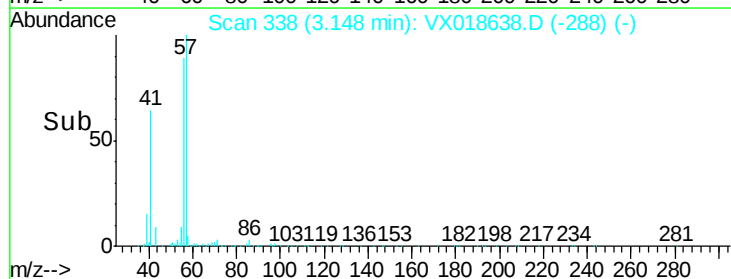
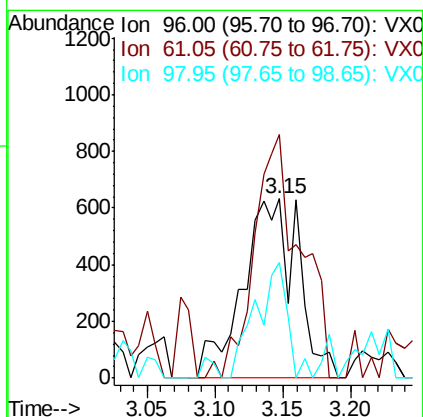
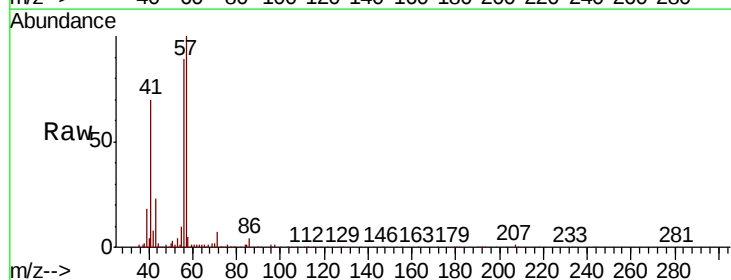
Instrument :
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ClientSampleId :
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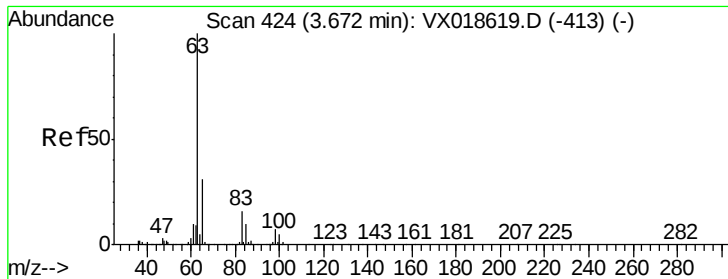
Tot Ion: 84 Resp: 3666
Ion Ratio Lower Upper
84 100
86 63.2 41.9 77.7
49 103.3 80.8 150.2



#18
trans-1,2-Dichloroethene
Concen: 0.103 ug/L
RT: 3.15 min Scan# 338
Delta R.T. 0.01 min
Lab File: VX018638.D
Acq: 29 Sep 2020 00:34

Tgt Ion: 96 Resp: 1795
Ion Ratio Lower Upper
96 100
61 135.7 97.3 180.7
98 64.3 46.6 86.6

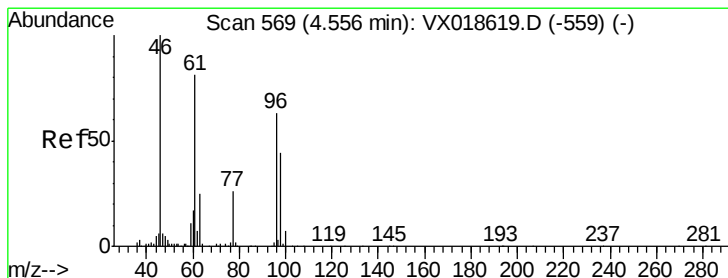
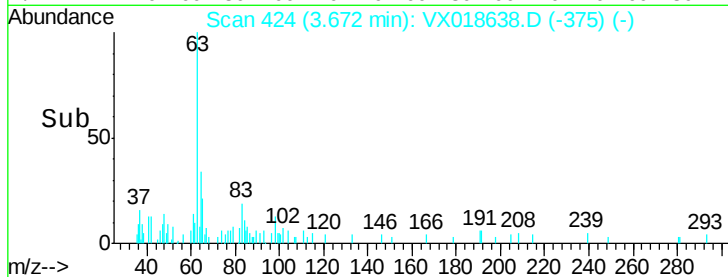
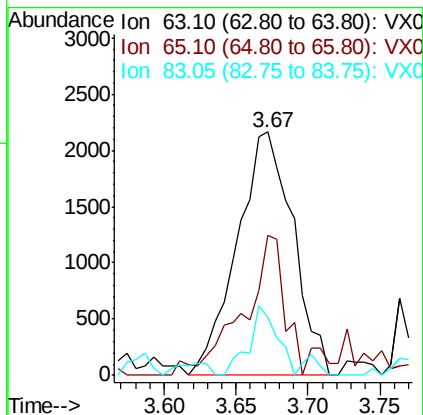
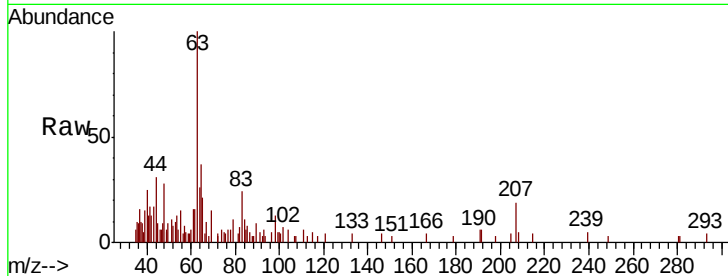




#19
 1,1-Dichloroethane
 Concen: 0.188 ug/L
 RT: 3.67 min Scan# 424
 Delta R.T. -0.00 min
 Lab File: VX018638.D
 Acq: 29 Sep 2020 00:34

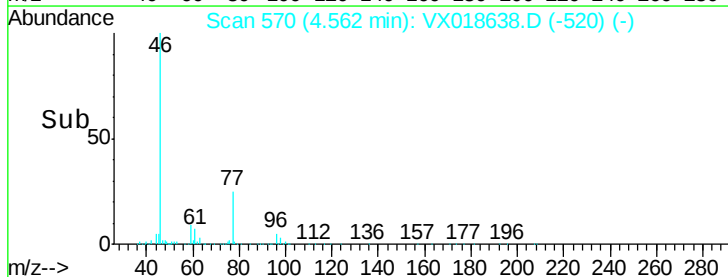
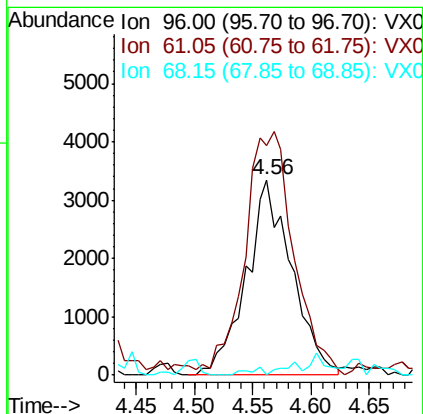
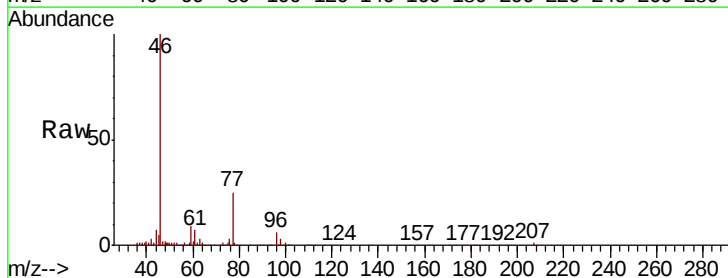
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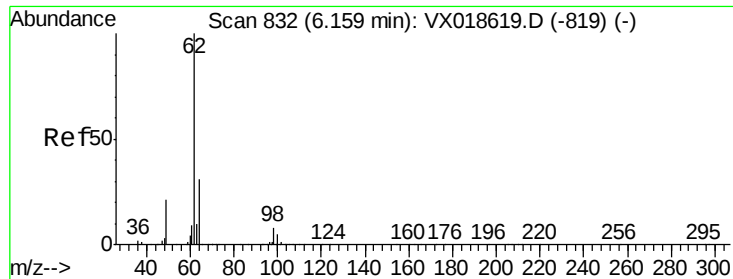
Tot Ion	Ratio	Lower	Upper
63	100		
65	45.4	22.7	42.1#
83	18.7	9.3	17.3#



#22
 cis-1,2-Dichloroethene
 Concen: 0.501 ug/L
 RT: 4.56 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VX018638.D
 Acq: 29 Sep 2020 00:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	117.5	87.7	162.9
68	0.0	0.3	0.7#





#27

1,2-Dichloroethane

Concen: 1.078 ug/L

RT: 6.12 min Scan# 826

Delta R.T. -0.04 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

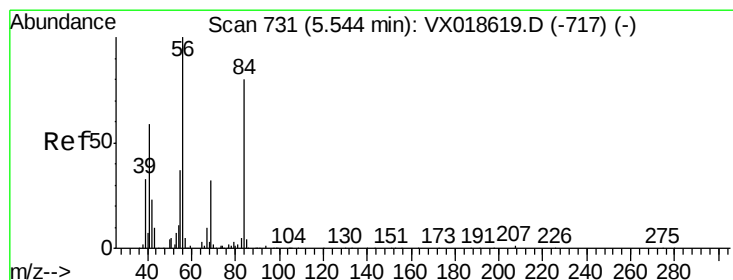
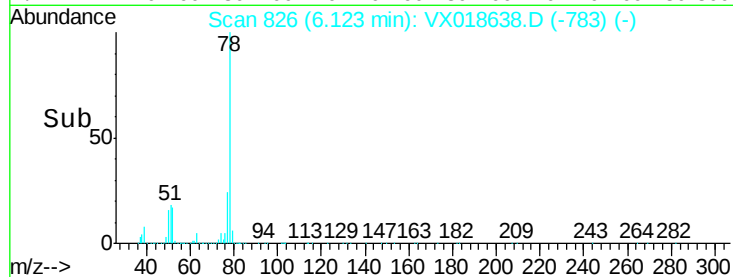
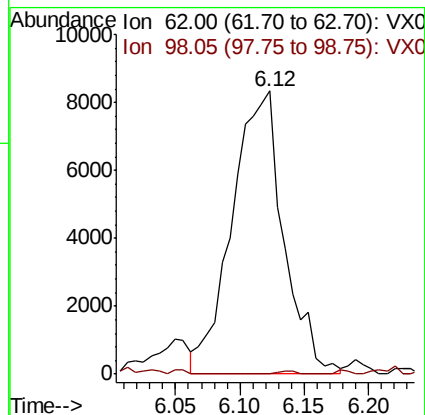
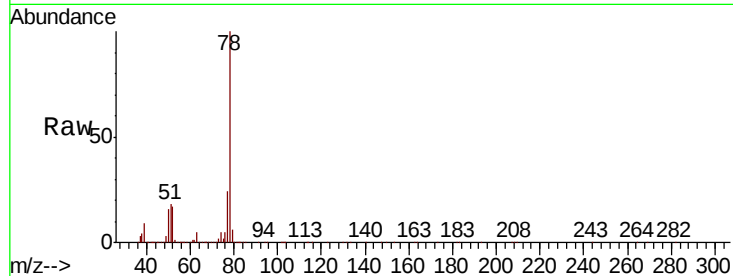
BG496

Tot Ion: 62 Resp: 23244

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.4#



#30

Cyclohexane

Concen: 0.775 ug/L

RT: 5.55 min Scan# 732

Delta R.T. 0.01 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

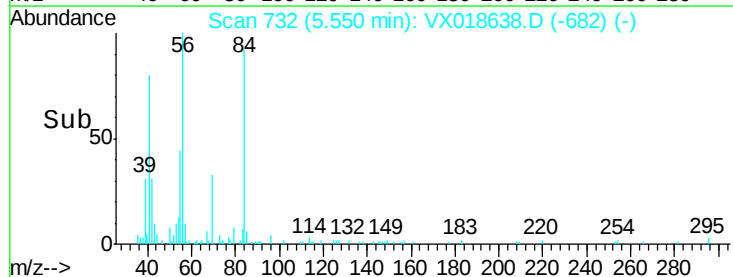
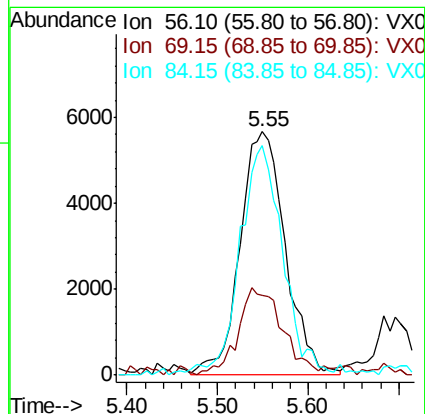
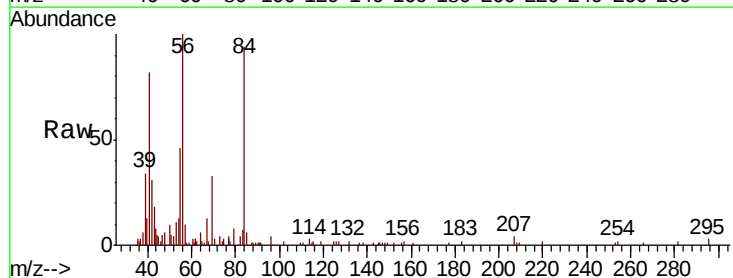
Tgt Ion: 56 Resp: 19639

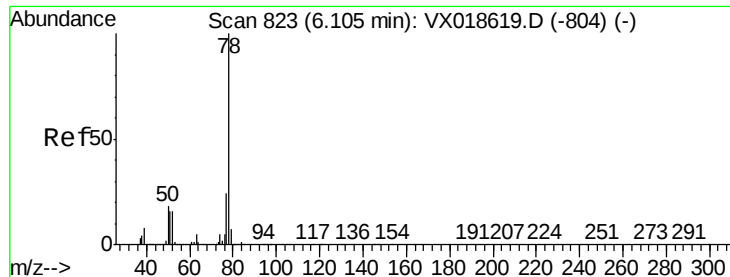
Ion Ratio Lower Upper

56 100

69 35.1 26.4 39.6

84 89.8 72.7 109.1





#33

Benzene

Concen: 38.197 ug/L

RT: 6.11 min Scan# 824

Delta R.T. 0.01 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

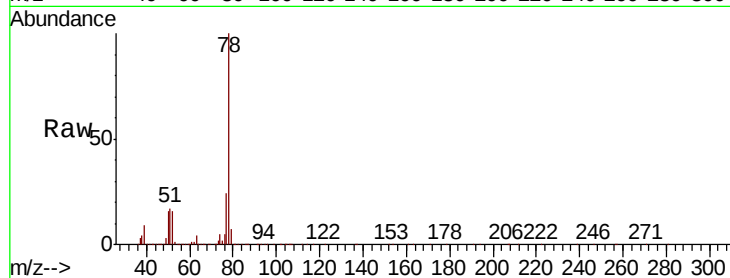
Instrument :

MSVOA_X

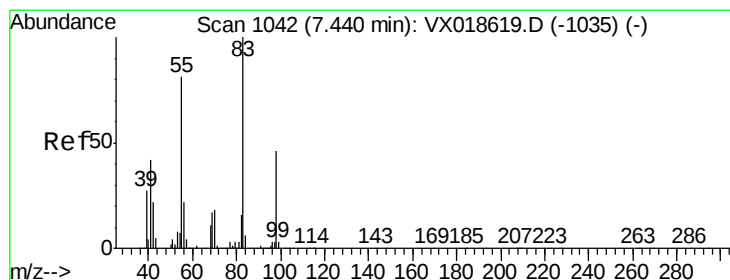
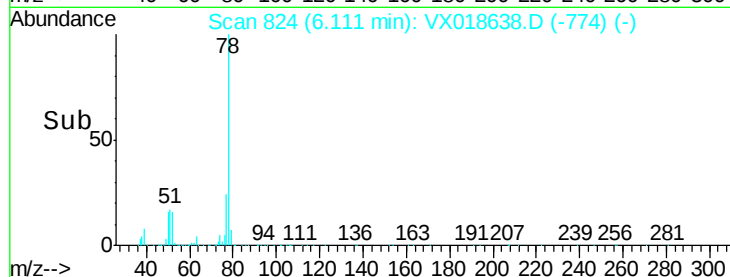
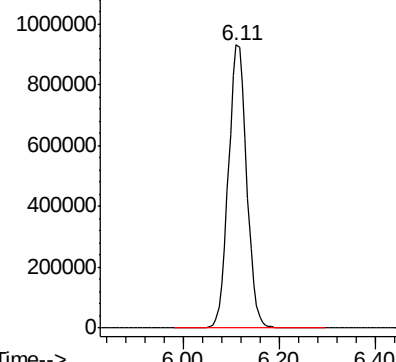
ClientSampleId :

BG496

Tgt Ion: 78 Resp: 2463719



Abundance Ion 78.10 (77.80 to 78.80): VX0



#35

Methylcyclohexane

Concen: 0.483 ug/L

RT: 7.44 min Scan# 1042

Delta R.T. -0.00 min

Lab File: VX018638.D

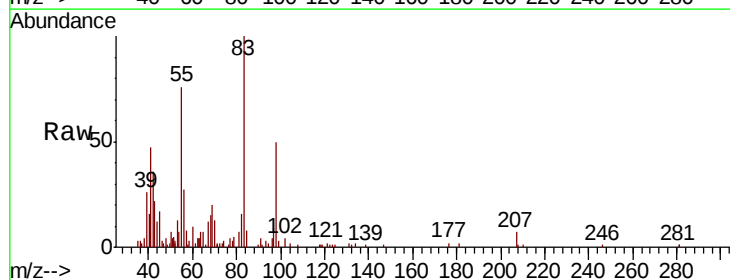
Acq: 29 Sep 2020 00:34

Tgt Ion: 83 Resp: 12541

Ion	Ratio	Lower	Upper
83	100		

55	94.1	67.4	101.0
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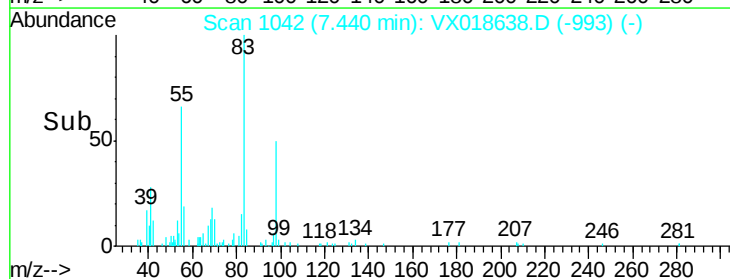
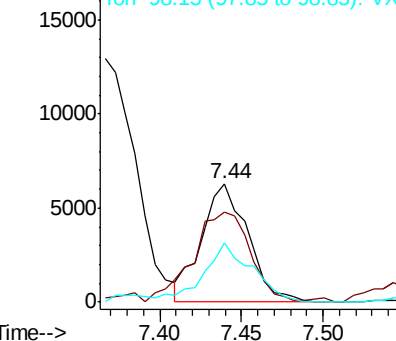
98	52.1	41.1	61.7
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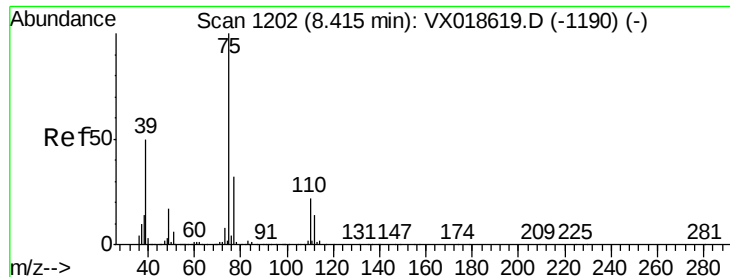


Abundance Ion 83.15 (82.85 to 83.85): VX0

Ion 55.10 (54.80 to 55.80): VX0

Ion 98.15 (97.85 to 98.85): VX0





#39

cis-1,3-Dichloropropene

Concen: 0.157 ug/L

RT: 8.37 min Scan# 1195

Delta R.T. -0.04 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampled :

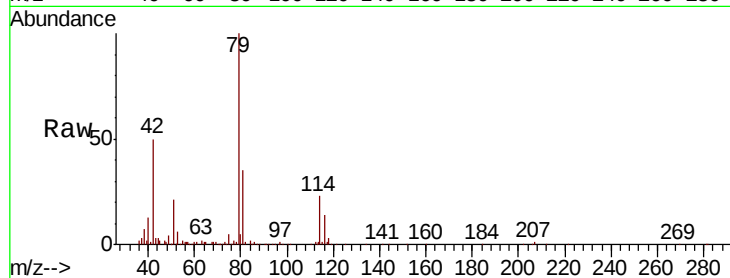
BG496

Tot Ion: 75 Resp: 3843

Ion Ratio Lower Upper

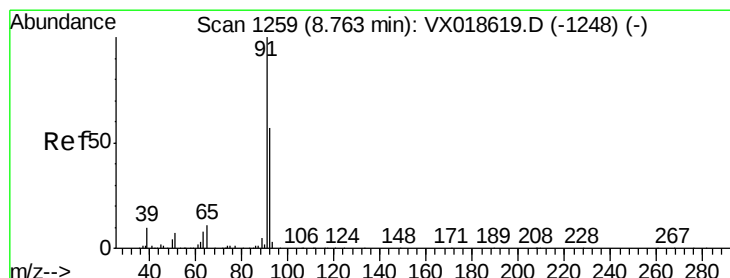
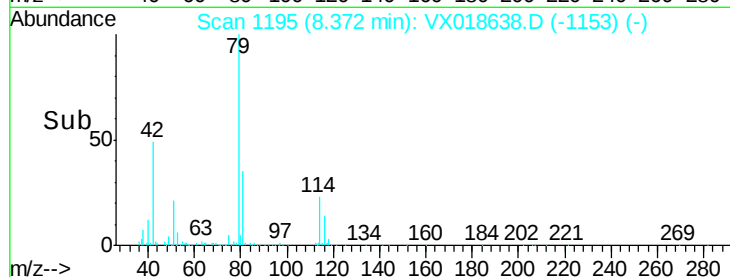
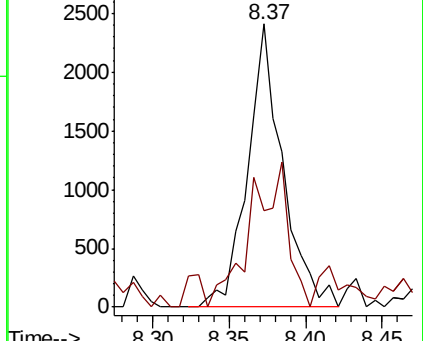
75 100

77 34.1 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VX0

Ion 77.05 (76.75 to 77.75): VX0



#42

Toluene

Concen: 1.934 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX018638.D

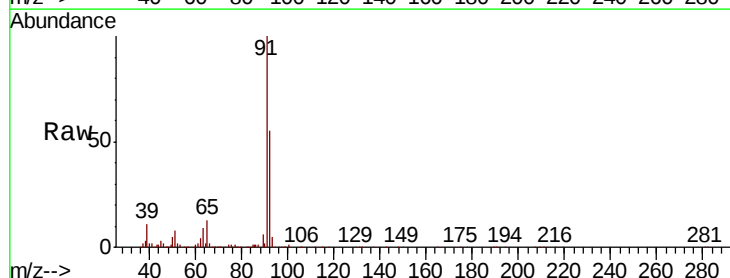
Acq: 29 Sep 2020 00:34

Tgt Ion: 91 Resp: 134760

Ion Ratio Lower Upper

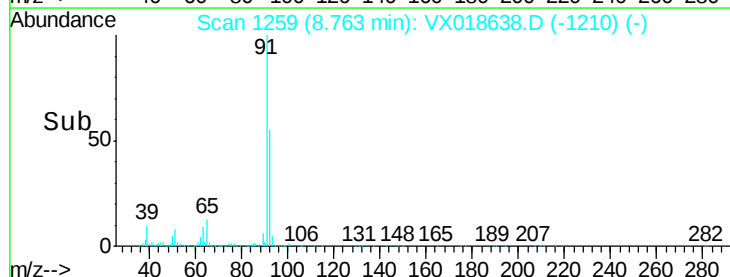
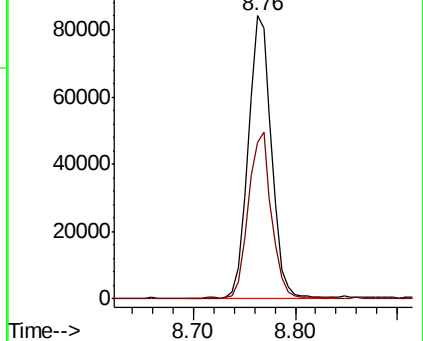
91 100

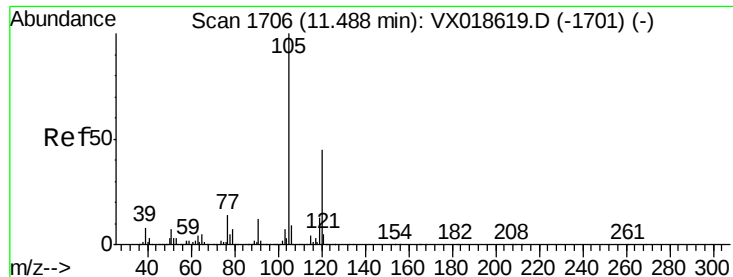
92 55.4 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 92.15 (91.85 to 92.85): VX0





#43

1,3,5-Trimethylbenzene

Concen: 0.261 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.30 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampled :

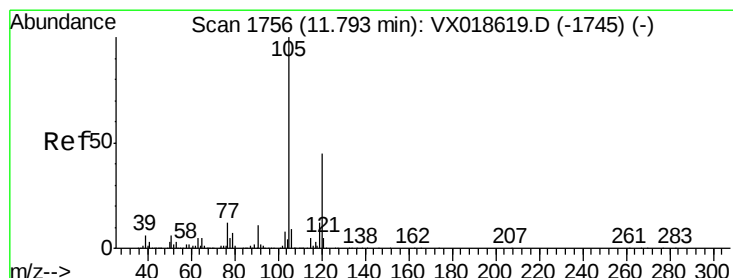
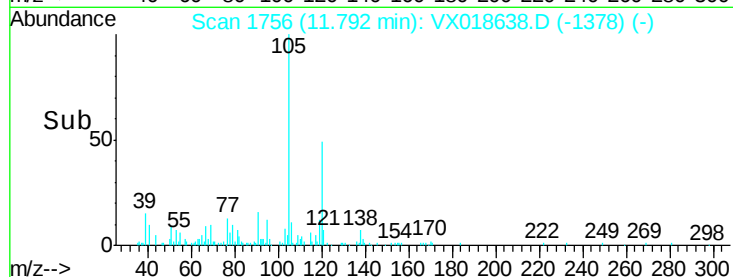
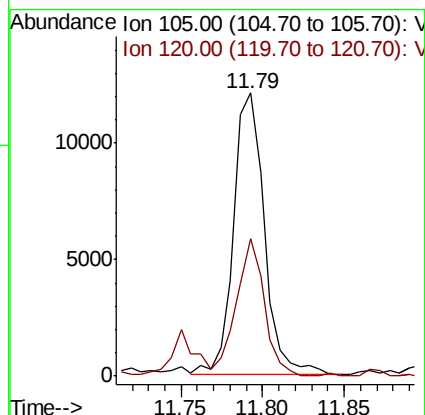
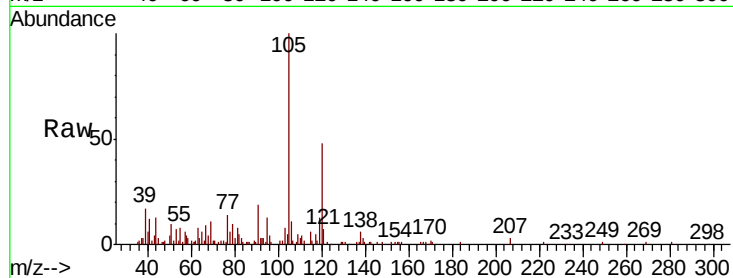
BG496

Tot Ion:105 Resp: 15901

Ion Ratio Lower Upper

105 100

120 44.5 37.2 55.8



#44

1,2,4-Trimethylbenzene

Concen: 0.261 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX018638.D

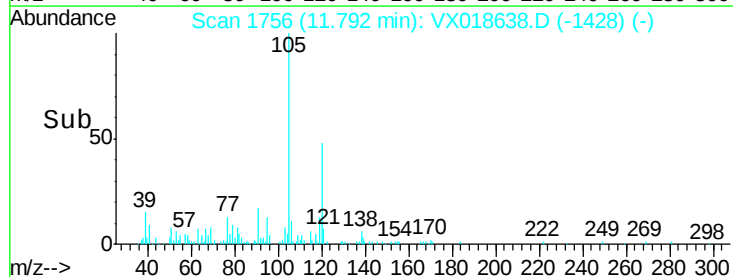
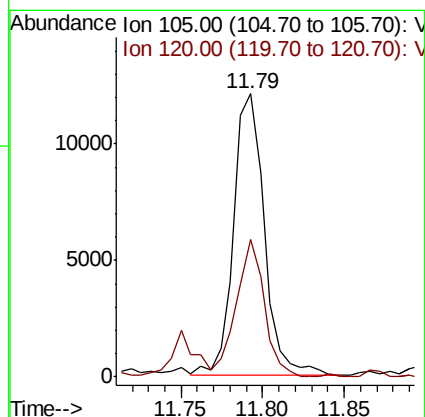
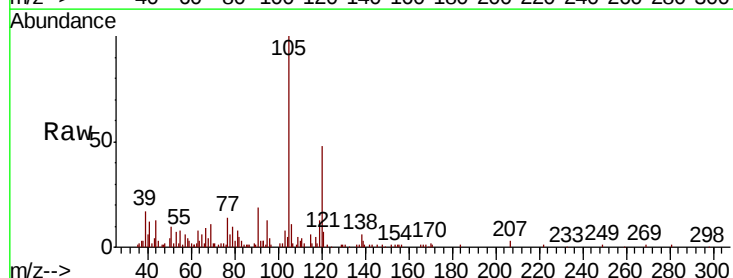
Acq: 29 Sep 2020 00:34

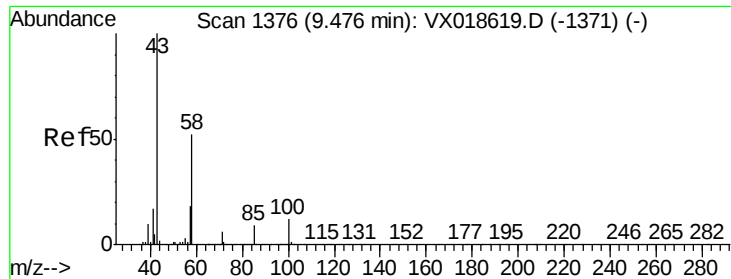
Tgt Ion:105 Resp: 15901

Ion Ratio Lower Upper

105 100

120 44.5 36.8 55.2

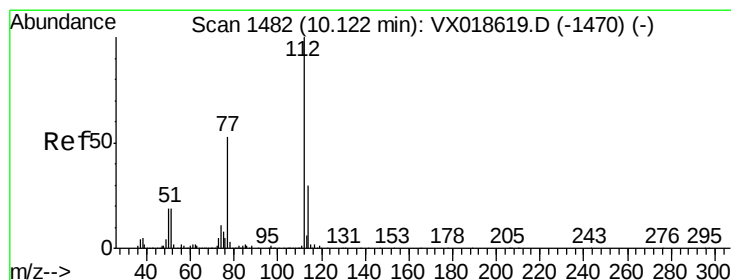
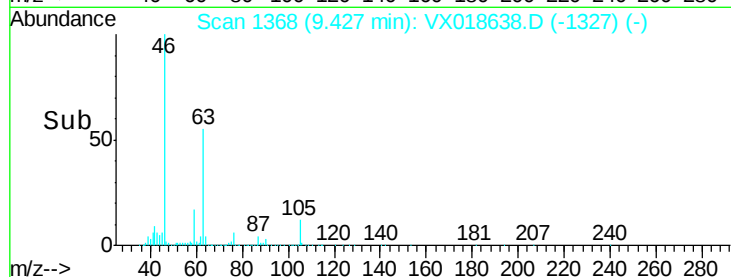
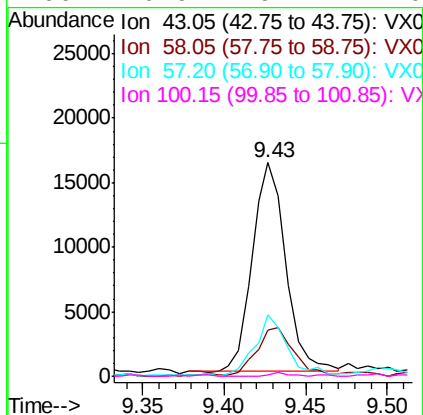
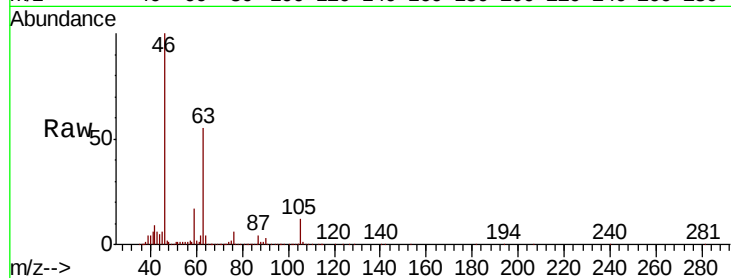




#50
2-Hexanone
Concen: 3.395 ug/L
RT: 9.43 min Scan# 1368
Delta R.T. -0.05 min
Lab File: VX018638.D
Acq: 29 Sep 2020 00:34

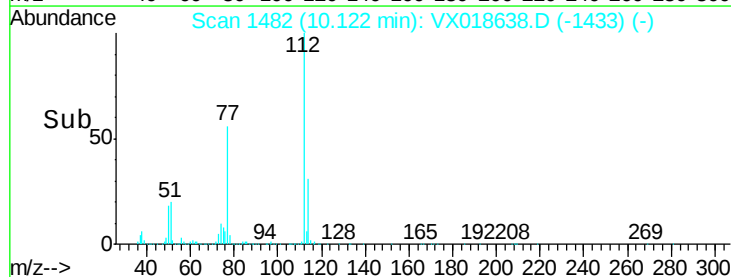
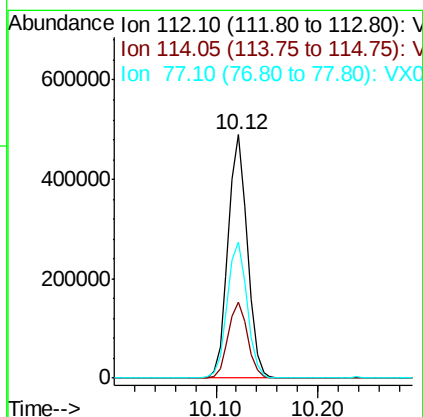
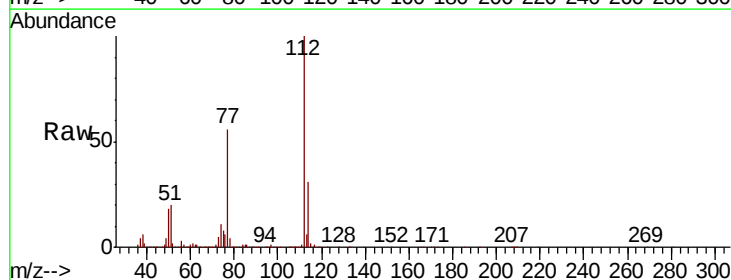
Instrument :
MSVOA_X
ClientSampled :
BG496

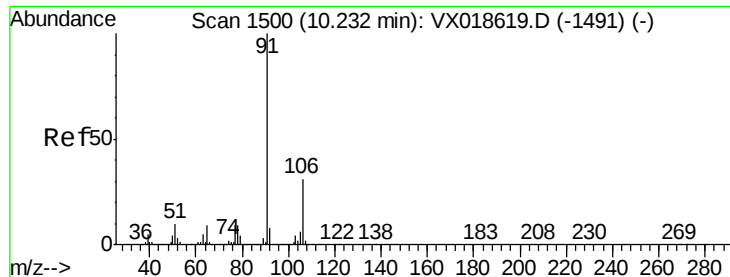
Tot Ion:	43	Resp:	22923
Ion	Ratio	Lower	Upper
43	100		
58	27.1	42.5	63.7#
57	28.0	15.9	23.9#
100	0.9	9.4	14.0#



#53
Chlorobenzene
Concen: 13.882 ug/L
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX018638.D
Acq: 29 Sep 2020 00:34

Tgt Ion:	112	Resp:	638907
Ion	Ratio	Lower	Upper
112	100		
114	31.2	20.6	38.4
77	55.8	46.6	69.8





#54

Ethylbenzene

Concen: 0.424 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

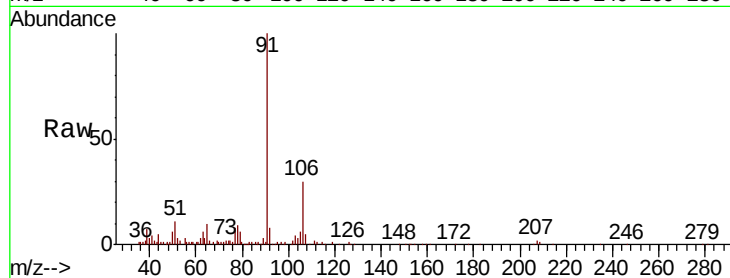
BG496

Tot Ion: 91 Resp: 32175

Ion Ratio Lower Upper

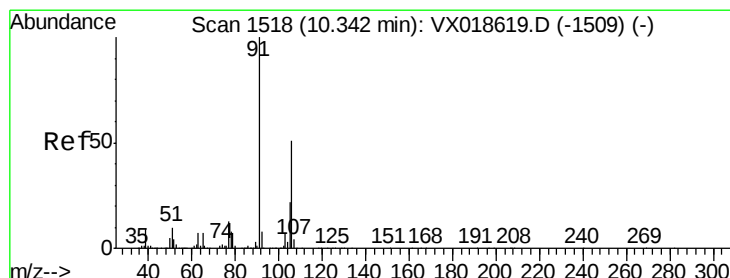
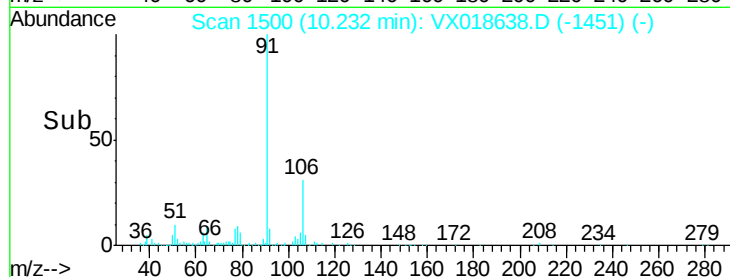
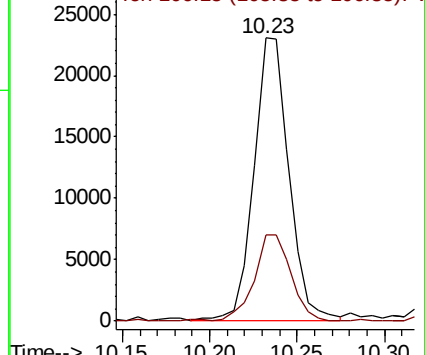
91 100

106 30.4 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V



#55

m,p-xylene

Concen: 0.842 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018638.D

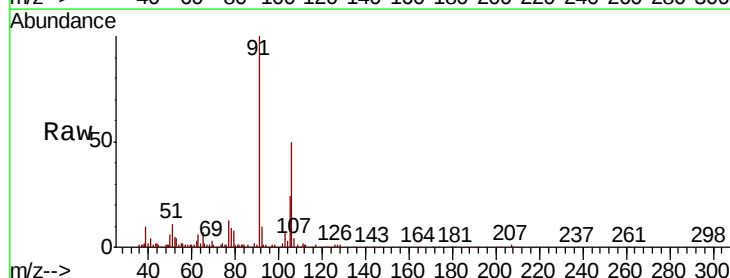
Acq: 29 Sep 2020 00:34

Tgt Ion: 106 Resp: 24440

Ion Ratio Lower Upper

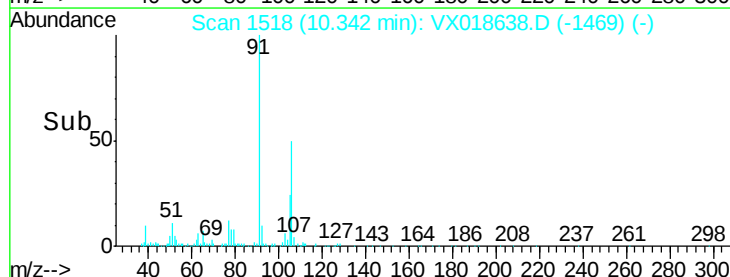
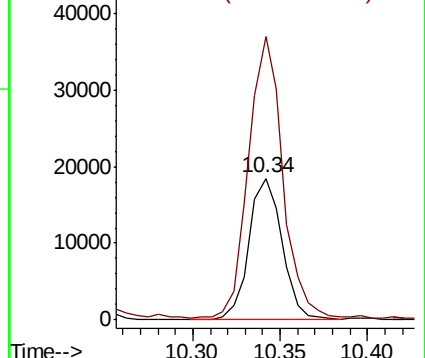
106 100

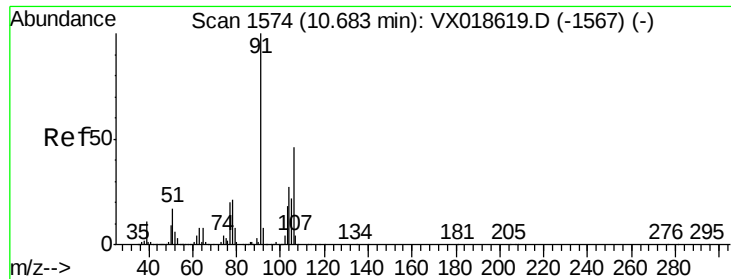
91 199.7 140.3 260.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

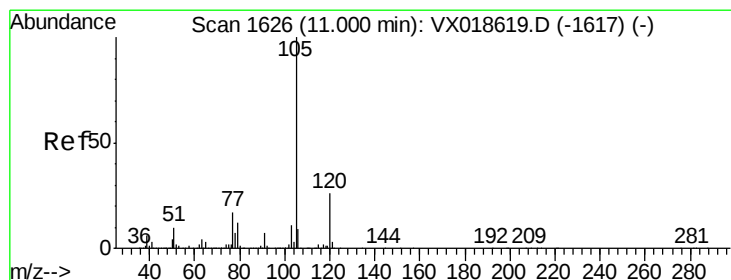
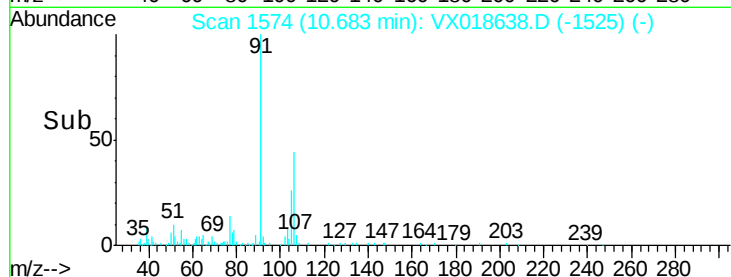
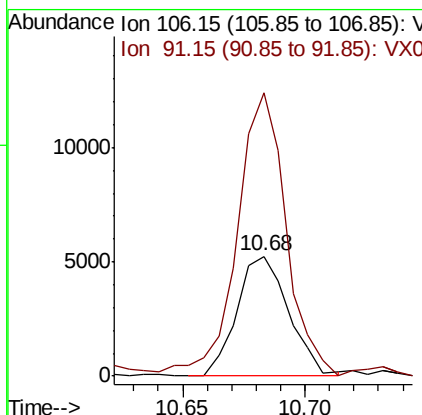
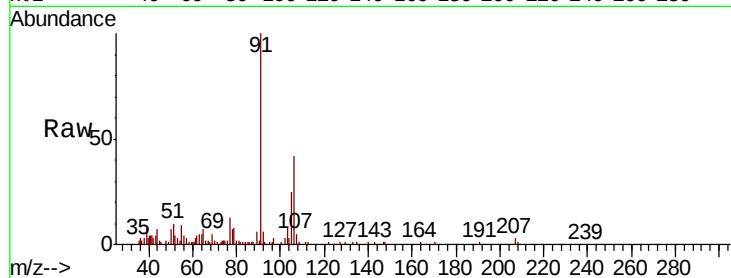




#56
o-xylene
Concen: 0.281 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX018638.D
Acq: 29 Sep 2020 00:34

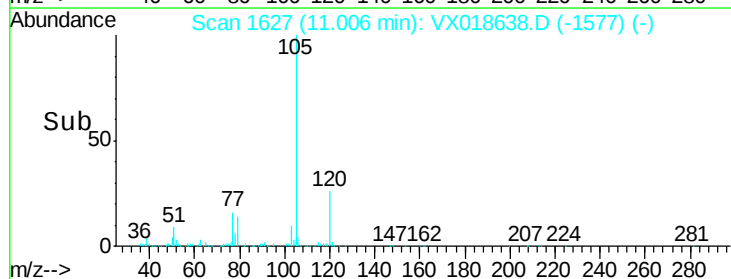
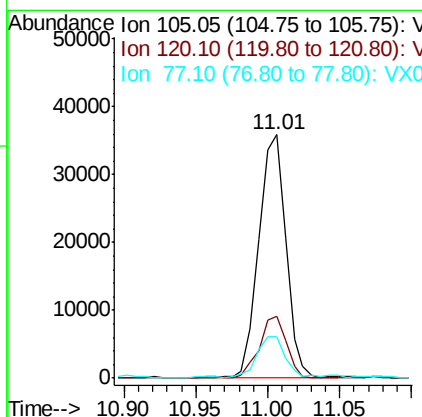
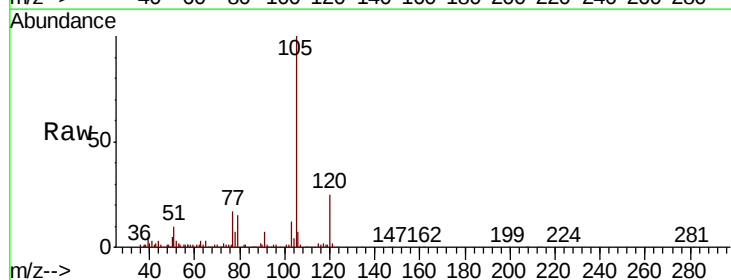
Instrument :
MSVOA_X
ClientSampled :
BG496

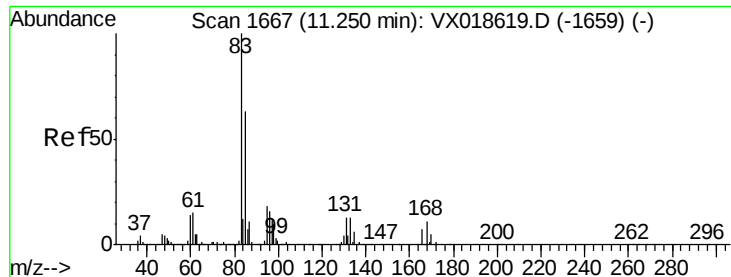
Tot Ion:106 Resp: 7716
Ion Ratio Lower Upper
106 100
91 235.7 167.5 311.1



#58
Isopropylbenzene
Concen: 0.637 ug/L
RT: 11.01 min Scan# 1627
Delta R.T. 0.01 min
Lab File: VX018638.D
Acq: 29 Sep 2020 00:34

Tgt Ion:105 Resp: 46809
Ion Ratio Lower Upper
105 100
120 25.0 21.2 31.8
77 19.2 13.3 19.9





#60

1,1,2,2-Tetrachloroethane

Concen: 0.175 ug/L

RT: 11.26 min Scan# 1668

Delta R.T. 0.01 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

BG496

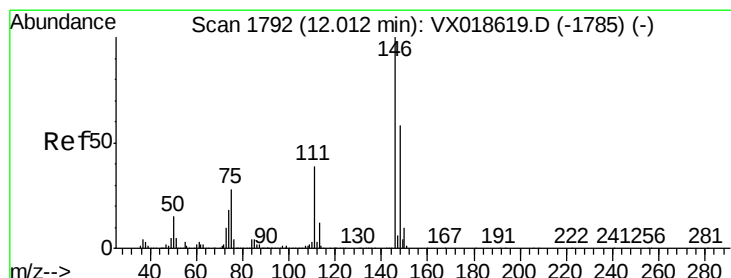
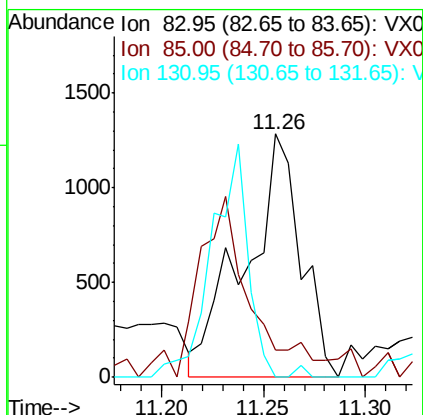
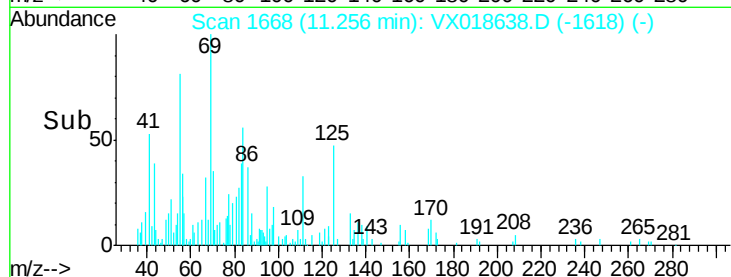
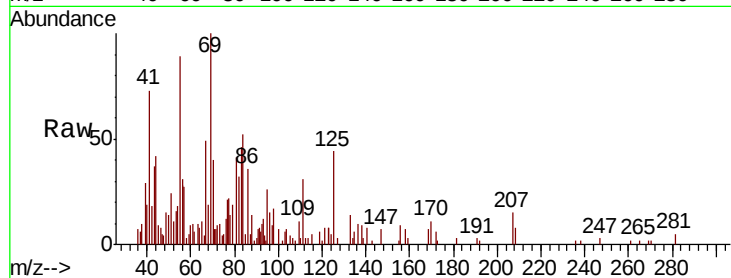
Tot Ion: 83 Resp: 2435

Ion Ratio Lower Upper

83 100

85 11.1 48.5 90.1#

131 0.0 7.8 11.6#



#63

1,3-Dichlorobenzene

Concen: 0.138 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

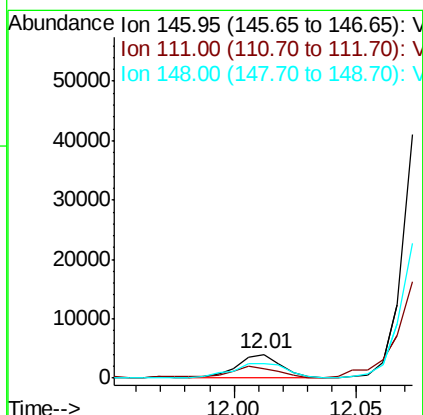
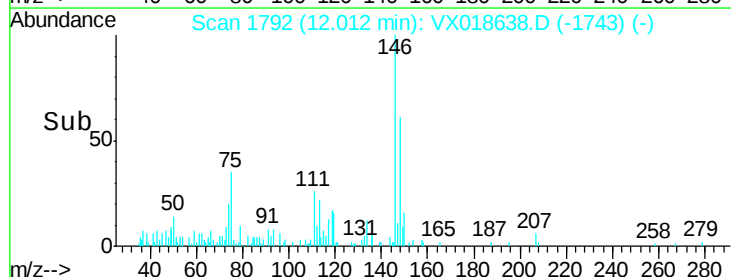
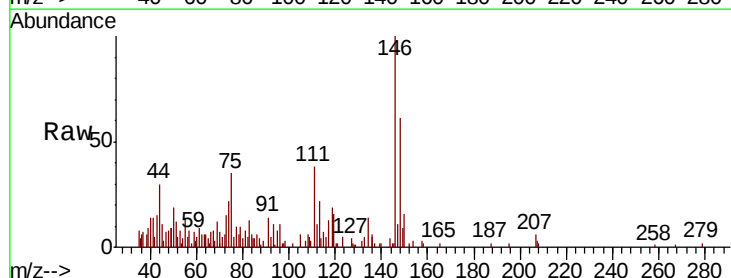
Tgt Ion: 146 Resp: 5069

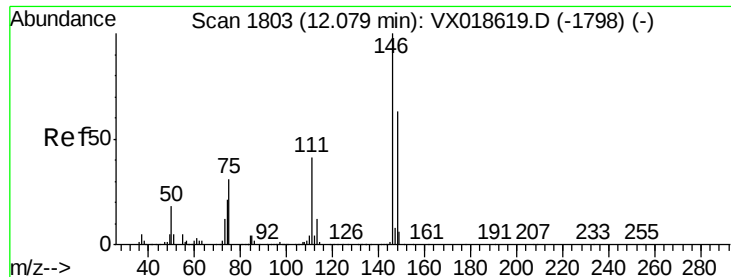
Ion Ratio Lower Upper

146 100

111 38.3 26.7 49.7

148 60.9 44.4 82.5





#64

1,4-Dichlorobenzene

Concen: 2.191 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

BG496

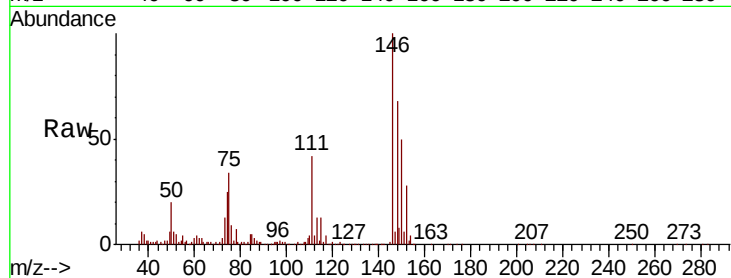
Tot Ion:146 Resp: 81558

Ion Ratio Lower Upper

146 100

111 42.3 28.8 53.4

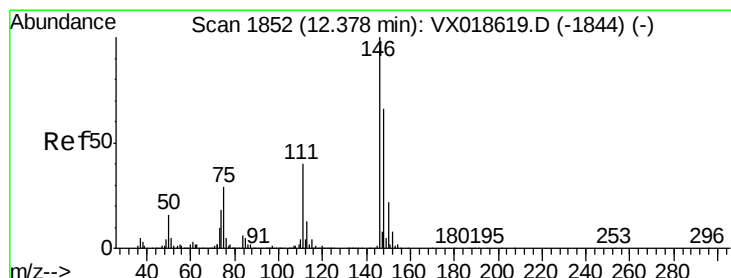
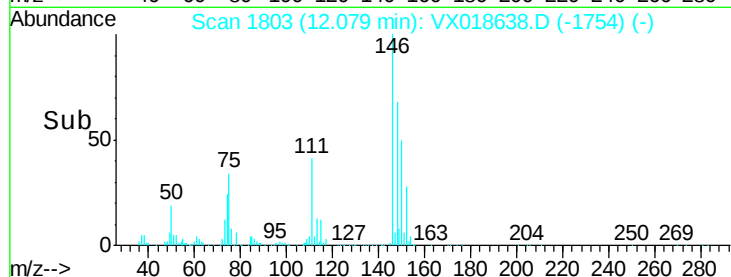
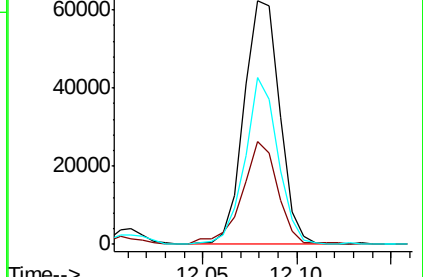
148 68.3 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 2.519 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

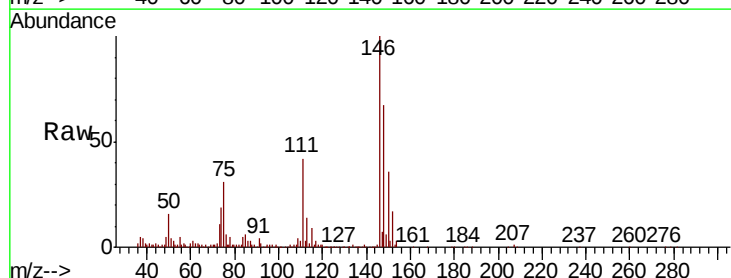
Tgt Ion:146 Resp: 86463

Ion Ratio Lower Upper

146 100

111 42.5 33.6 50.4

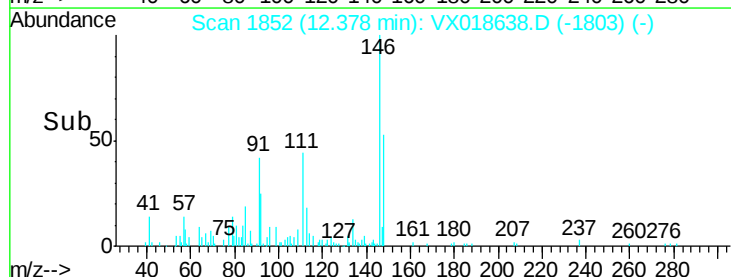
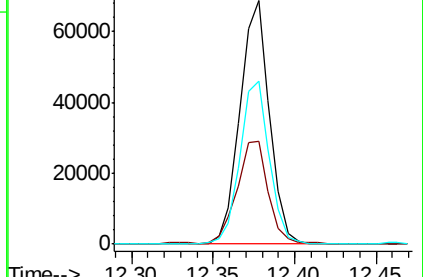
148 66.8 53.4 80.2

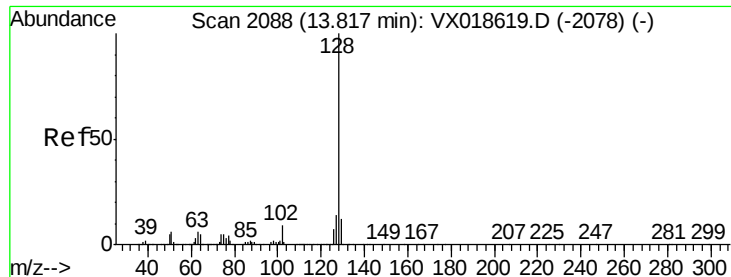


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#70

Naphthalene

Concen: 0.296 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018638.D

Acq: 29 Sep 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

BG496

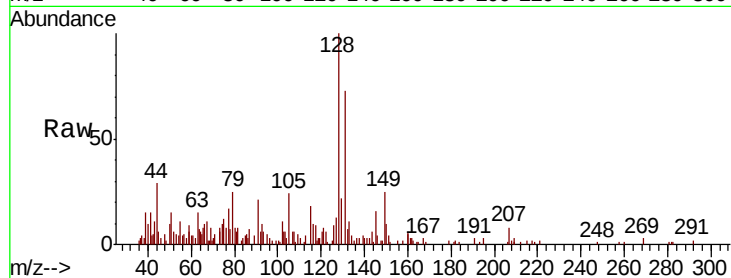
Tot Ion:128 Resp: 11334

Ion Ratio Lower Upper

128 100

129 22.8 8.8 13.2#

127 13.3 10.7 16.1



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

