

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122320\
 Data File : VL036199.D
 Acq On : 23 Dec 2020 19:32
 Operator : SY/AP
 Sample : L5196-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG1

Manual Integrations
 APPROVED

MMDadoda
 12/26/2020 1:36:22 PM

Quant Time: Dec 25 23:43:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1181779	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.15	114	2286047	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.06	117	2095805	10.00	ppbv	-0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1916841	11.52	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	115.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	18932	0.137	ppbv	91
3) Chlorodifluoromethane	2.96	51	84262	0.625	ppbv #	87
4) Chloromethane	3.12	50	32667	0.493	ppbv	97
9) Propene	3.00	41	87186	1.291	ppbv #	75
11) Trichlorofluoromethane	3.93	101	54872	0.339	ppbv	87
13) Ethanol	3.58	45	551727	59.253	ppbv	88
15) Acetone	3.83	43	617514m	4.348	ppbv	
17) tert-Butyl alcohol	4.28	59	73712	0.536	ppbv #	87
19) Isopropyl Alcohol	3.95	45	494710m	5.699	ppbv	
20) Methylene Chloride	4.32	84	67388m	1.158	ppbv	
26) Hexane	5.66	57	122010m	0.955	ppbv	
34) 2-Butanone	5.23	43	96247m	0.635	ppbv	
35) Carbon Tetrachloride	6.99	117	9680m	0.073	ppbv	
36) Benzene	6.86	78	105255m	0.543	ppbv	
44) 2,2,4-Trimethylpentane	7.83	57	70782m	0.202	ppbv	
52) Tetrachloroethene	11.20	164	2674m	0.038	ppbv	
53) Toluene	9.78	91	278785	1.281	ppbv	98
58) Ethyl Benzene	12.68	91	77467m	0.270	ppbv	
59) m/p-Xylene	12.94	91	201409m	0.833	ppbv	
60) o-Xylene	13.66	91	74026m	0.325	ppbv	
61) Styrene	13.51	104	81323m	0.556	ppbv	
62) Isopropylbenzene	14.64	105	2987934	8.844	ppbv	96
74) 1,2,4-Trimethylbenzene	16.74	105	72566m	0.307	ppbv	
79) Naphthalene	22.18	128	33891m	0.282	ppbv	

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

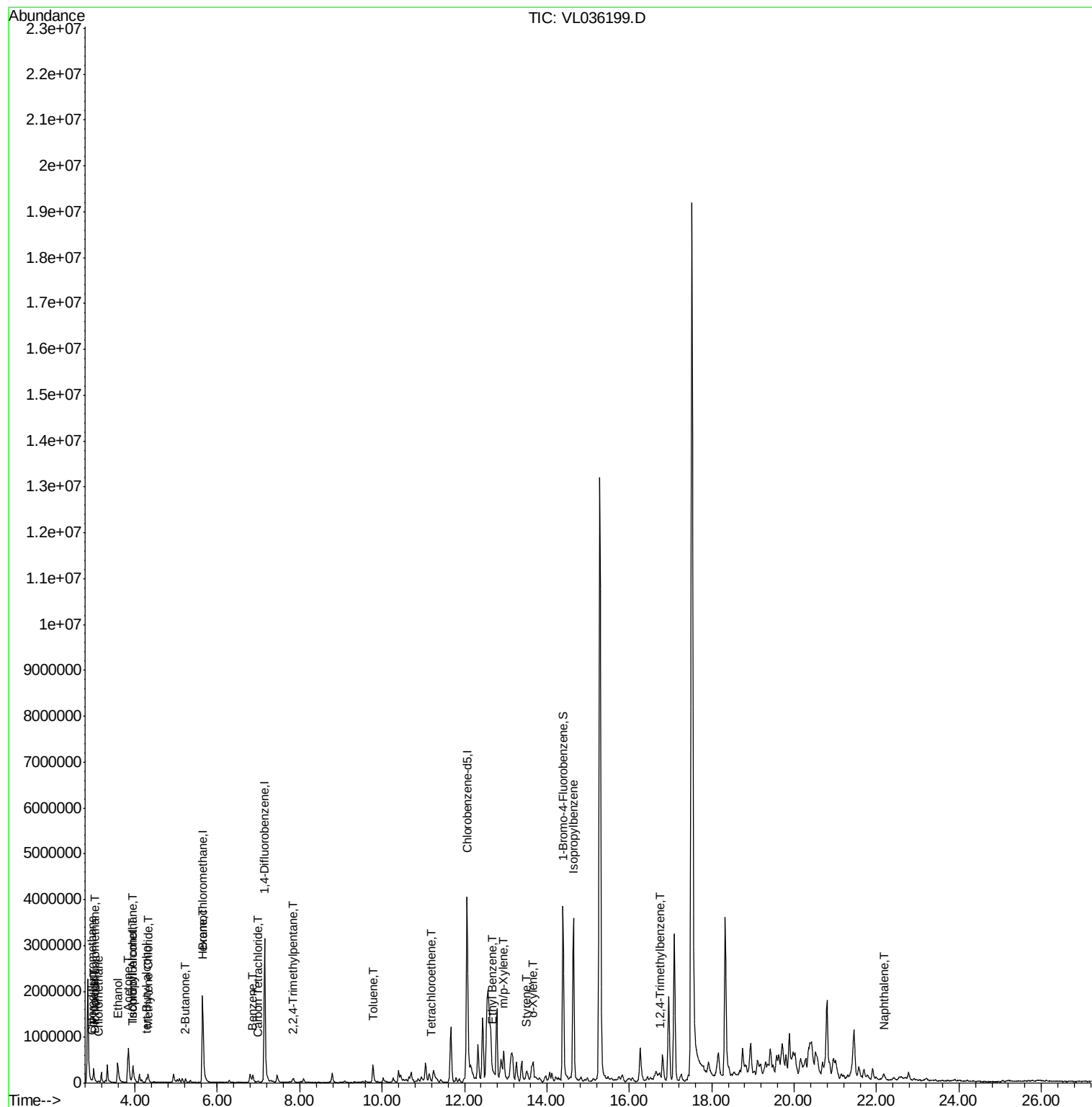
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL122320\
Data File : VL036199.D
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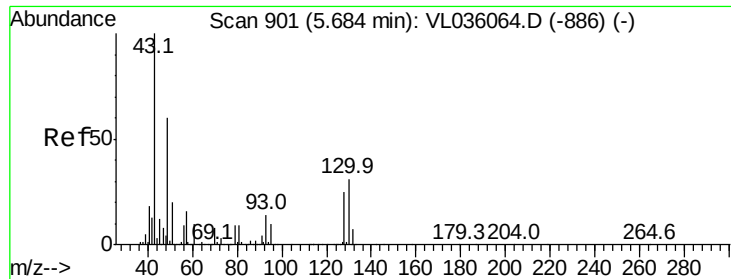
Instrument :
MSVOA_L
ClientSampleId :
SSSG1

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Quant Time: Dec 25 23:43:35 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





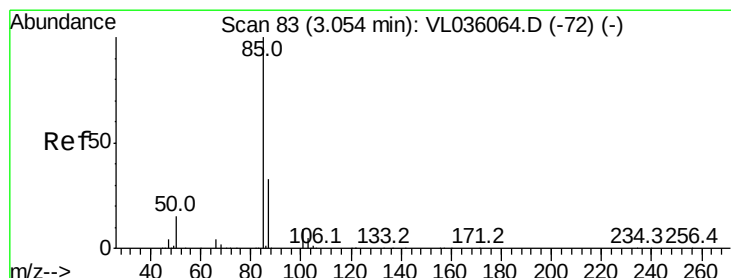
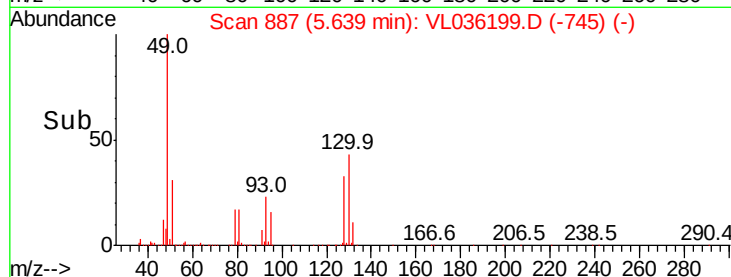
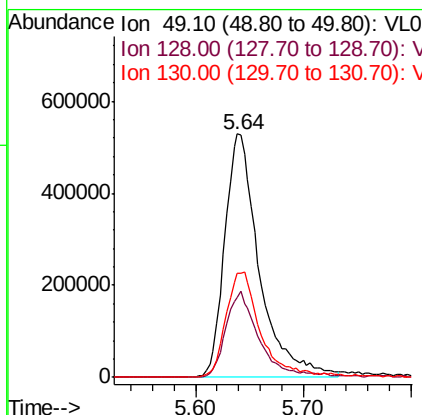
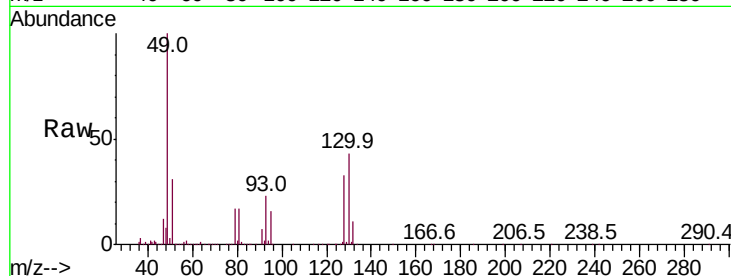
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.64 min Scan# 887
Delta R.T. -0.04 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Instrument :
MSVOA_L
ClientSampleId :
SSSG1

Tot Ion: 49 Resp: 1181779
Ion Ratio Lower Upper
49 100
128 34.8 21.1 63.1
130 44.8 27.1 81.3

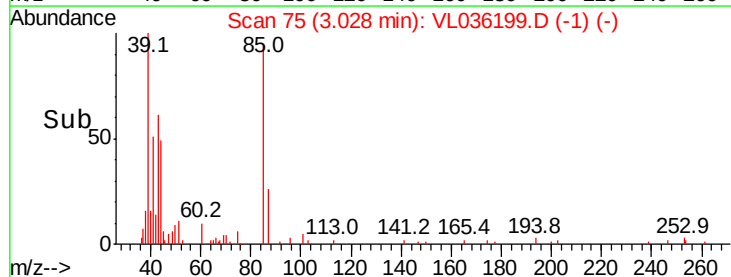
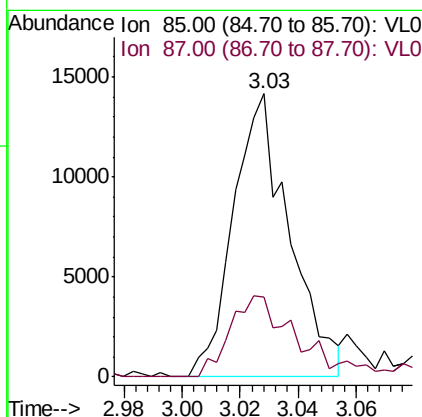
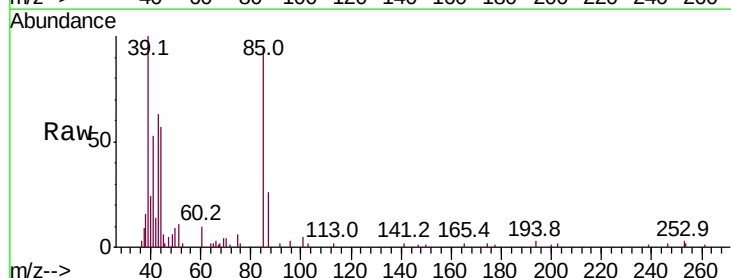
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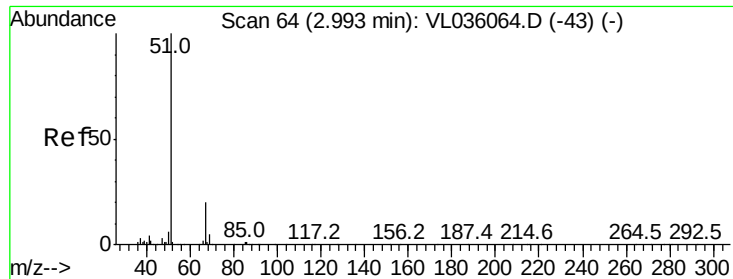
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#2
Dichlorodifluoromethane
Concen: 0.137 ppbv
RT: 3.03 min Scan# 75
Delta R.T. -0.03 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Tgt Ion: 85 Resp: 18932
Ion Ratio Lower Upper
85 100
87 28.1 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.625 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Instrument :

MSVOA_L

ClientSampled :

SSSG1

Tot Ion: 51 Resp: 84262

Ion Ratio Lower Upper

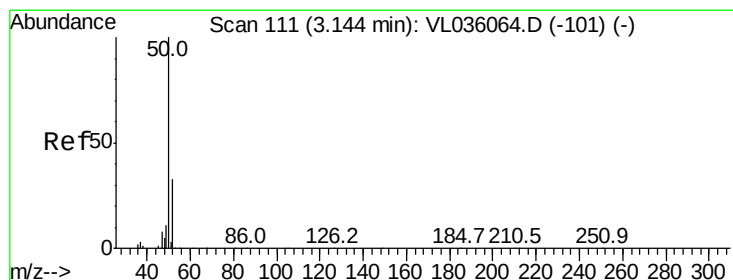
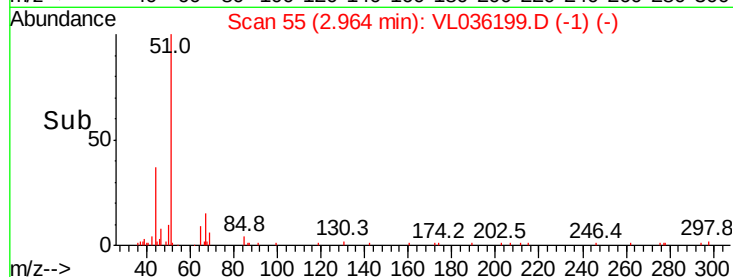
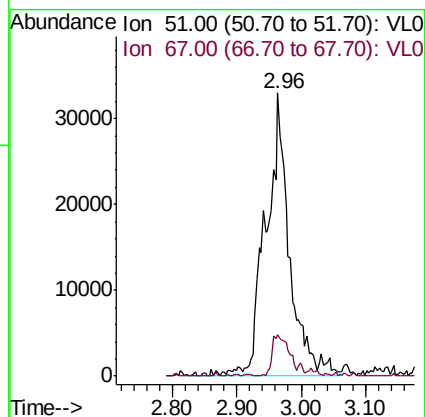
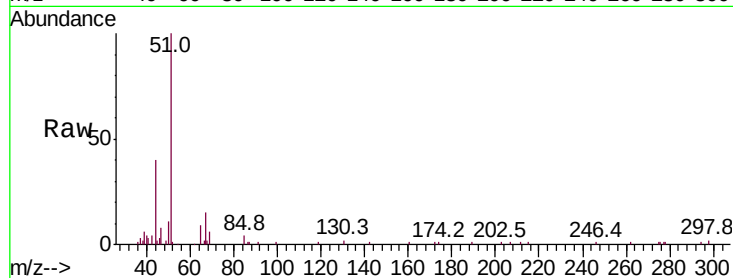
51 100

67 12.0 14.3 21.5#

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#4

Chloromethane

Concen: 0.493 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.03 min

Lab File: VL036199.D

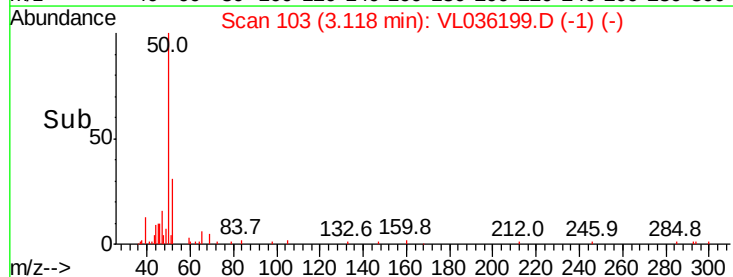
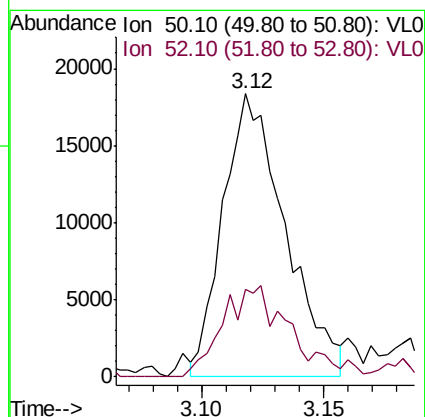
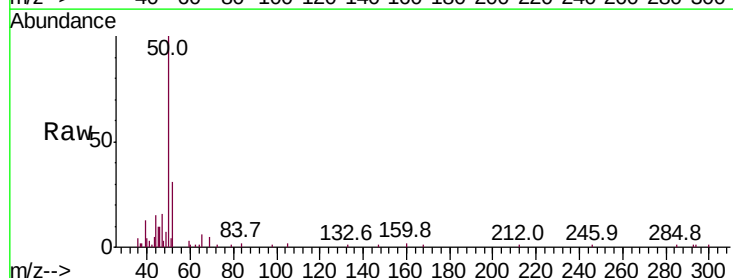
Acq: 23 Dec 2020 19:32

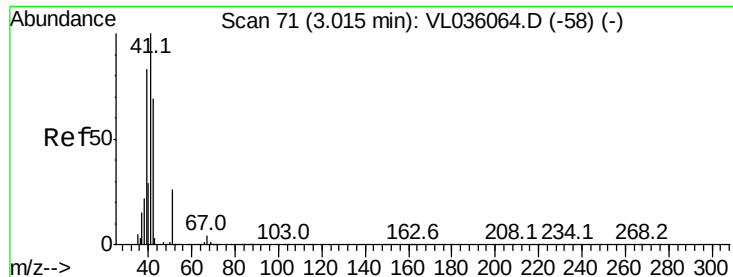
Tgt Ion: 50 Resp: 32667

Ion Ratio Lower Upper

50 100

52 31.0 26.1 39.1





#9

Propene

Concen: 1.291 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Instrument :

MSVOA_L

ClientSampled :

SSSG1

Tot Ion: 41 Resp: 87186

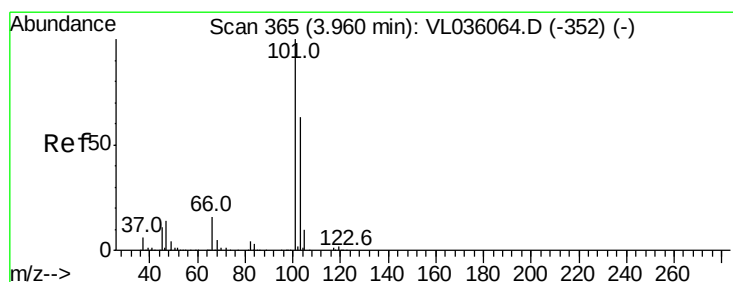
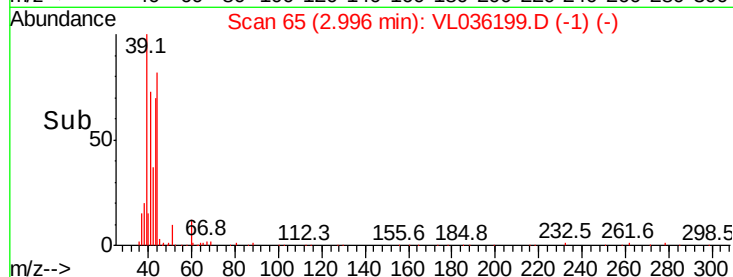
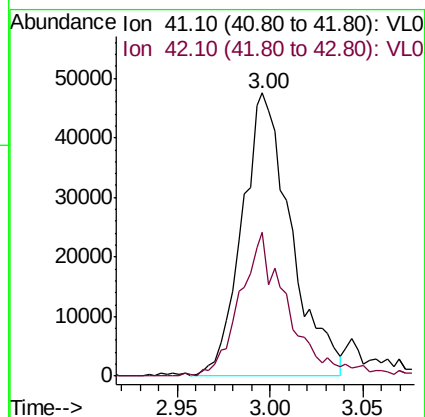
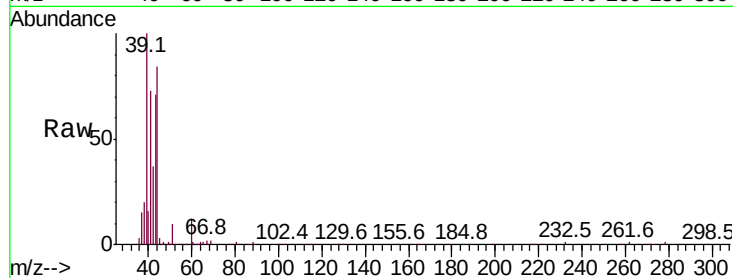
Ion Ratio Lower Upper

41 100

42 50.4 57.0 85.6#

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#11

Trichlorofluoromethane

Concen: 0.339 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.03 min

Lab File: VL036199.D

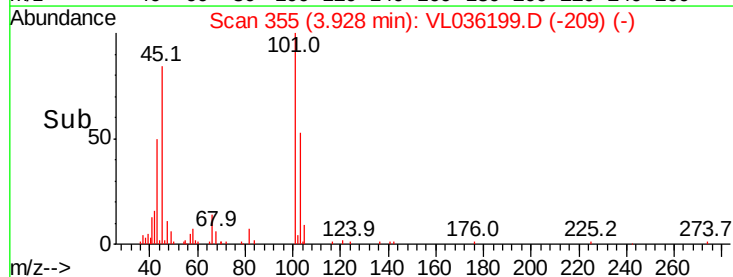
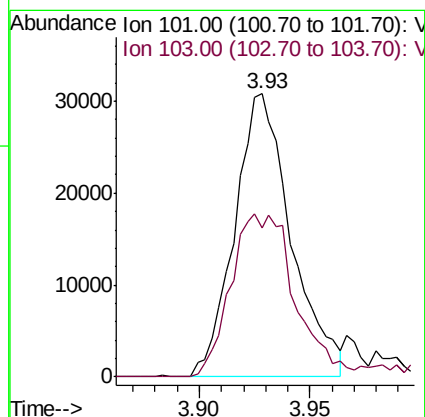
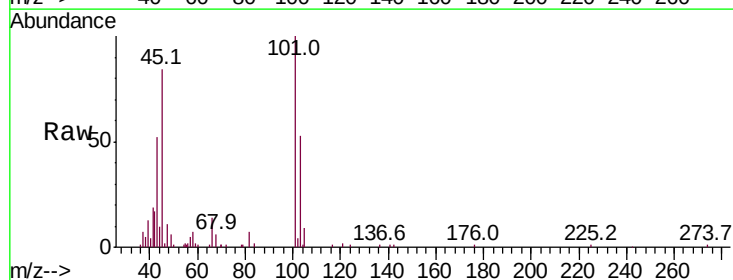
Acq: 23 Dec 2020 19:32

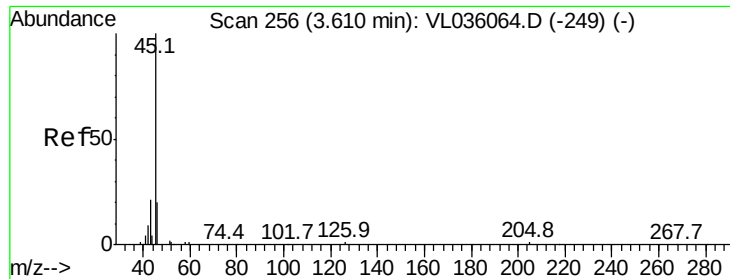
Tgt Ion: 101 Resp: 54872

Ion Ratio Lower Upper

101 100

103 52.8 50.3 75.5





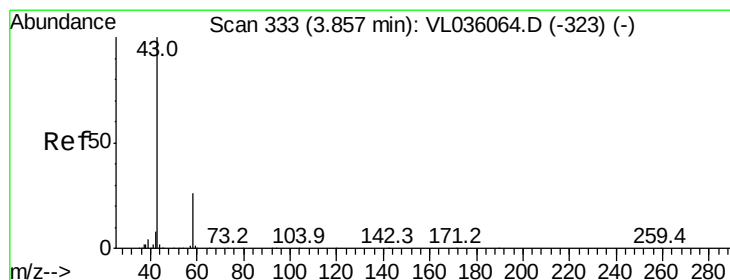
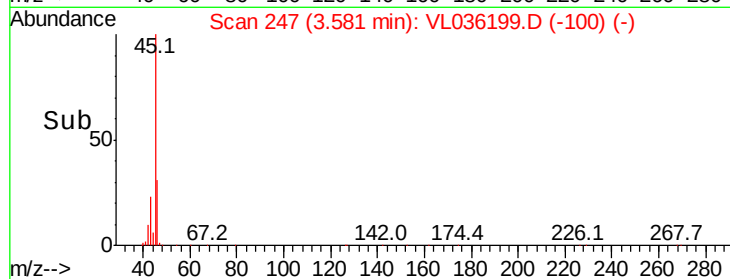
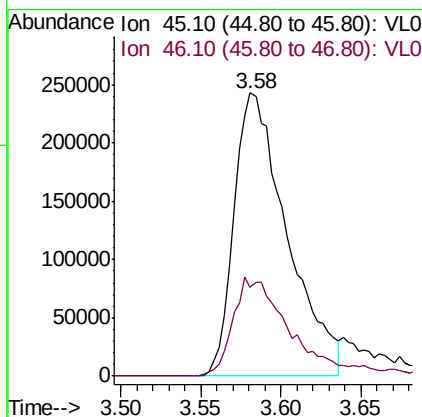
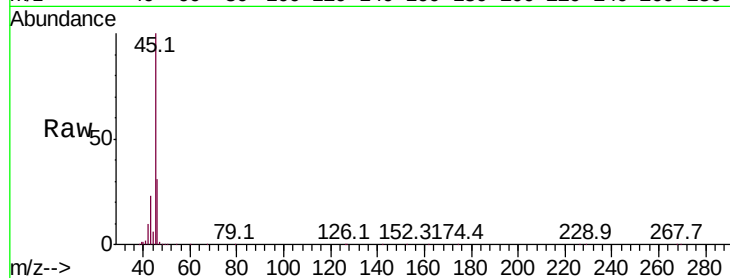
#13
Ethanol
Concen: 59.253 ppbv
RT: 3.58 min Scan# 247
Delta R.T. -0.03 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Instrument :
MSVOA_L
ClientSampleId :
SSSG1

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.5	19.0	75.8

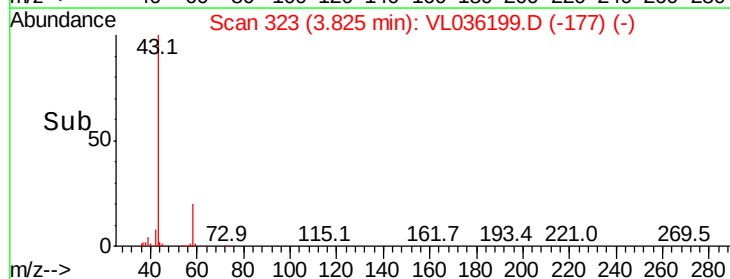
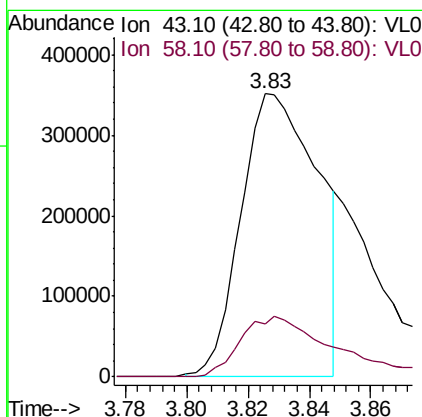
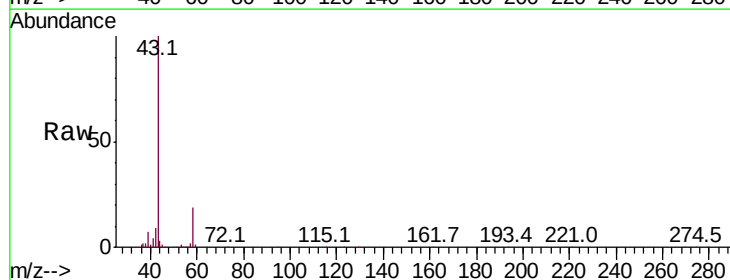
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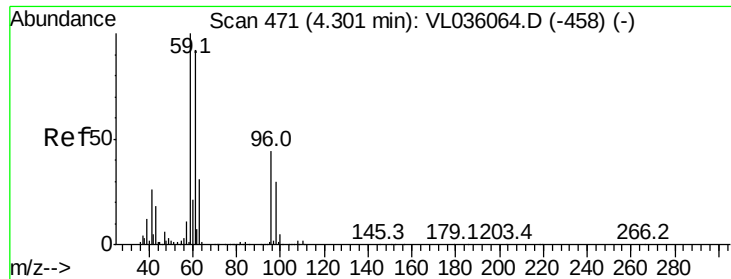
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#15
Acetone
Concen: 4.348 ppbv m
RT: 3.83 min Scan# 323
Delta R.T. -0.03 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.6	20.9	31.3





#17

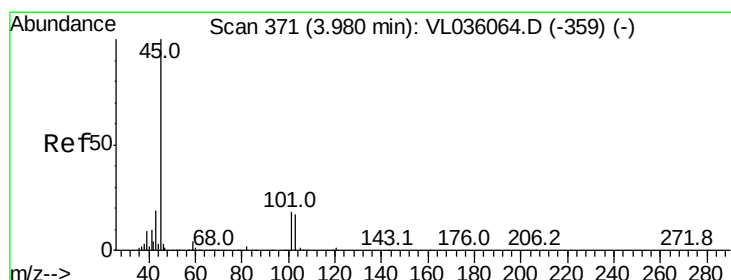
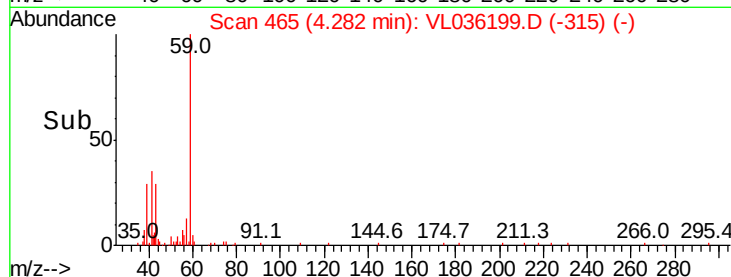
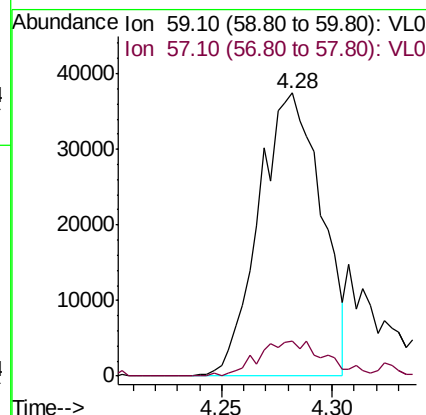
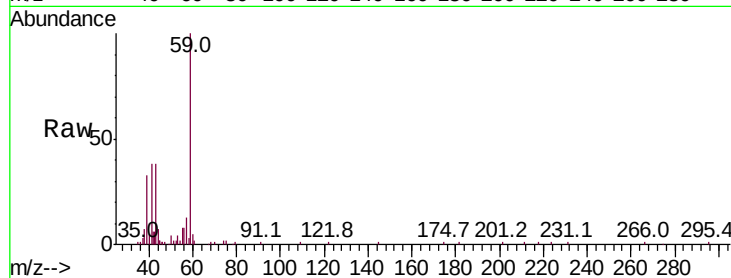
tert-Butyl alcohol
Concen: 0.536 ppbv
RT: 4.28 min Scan# 465
Delta R.T. -0.02 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Instrument :
MSVOA_L
ClientSampleId :
SSSG1

Tot Ion: 59 Resp: 73712
Ion Ratio Lower Upper
59 100
57 15.7 8.7 13.1#

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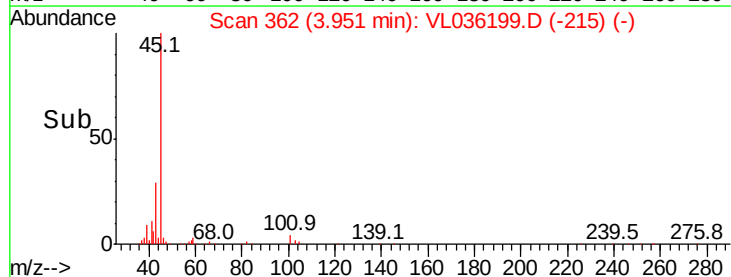
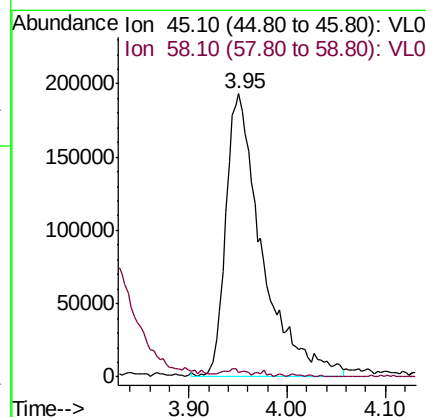
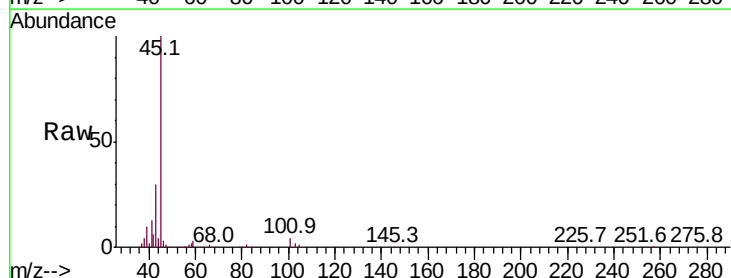
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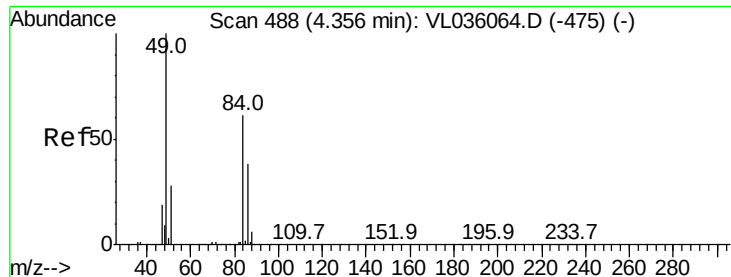


#19

Isopropyl Alcohol
Concen: 5.699 ppbv m
RT: 3.95 min Scan# 362
Delta R.T. -0.03 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Tgt Ion: 45 Resp: 494710
Ion Ratio Lower Upper
45 100
58 1.9 0.0 0.0#





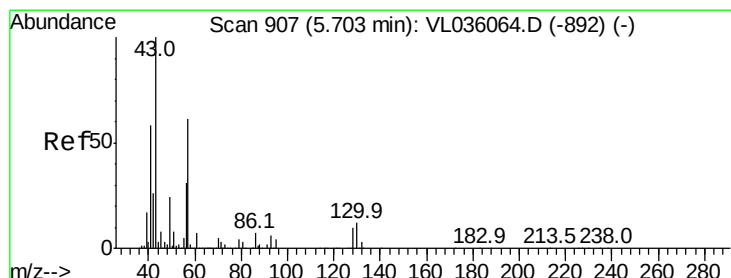
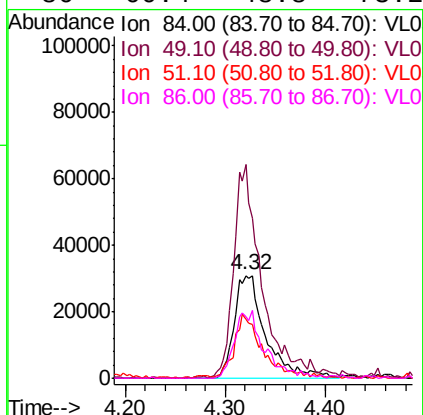
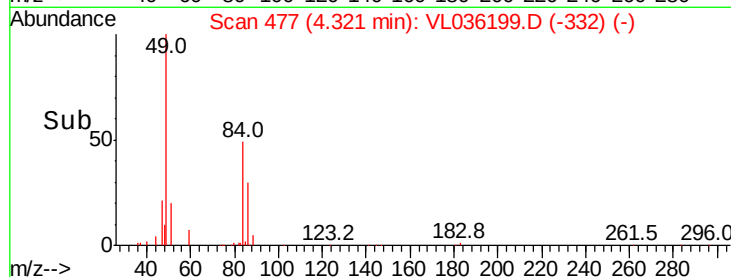
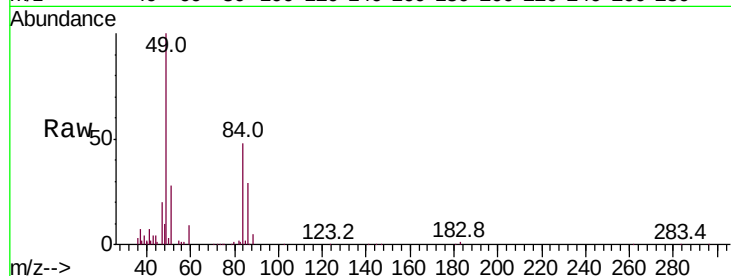
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Methvlene Chloride
Concen: 1.158 ppbv m
RT: 4.32 min Scan# 477
Delta R.T. -0.04 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Instrument :
MSVOA_L
ClientSampleId :
SSSG1

Tot Ion: 84 Resp: 67388
Ion Ratio Lower Upper
84 100
49 207.9 133.0 199.4#
51 57.3 38.9 58.3
86 60.4 48.8 73.2

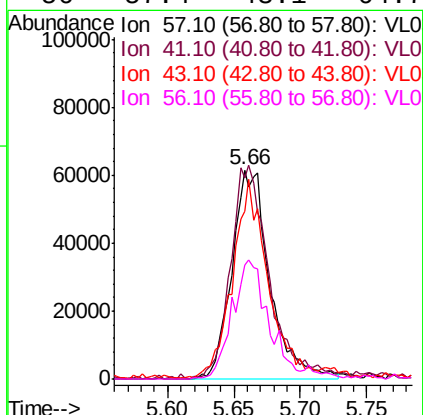
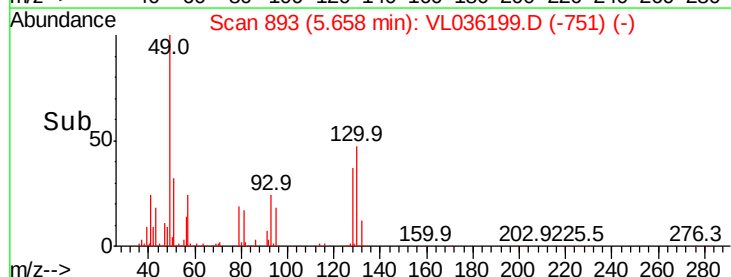
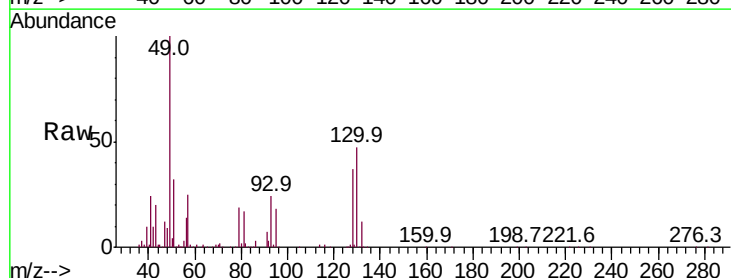
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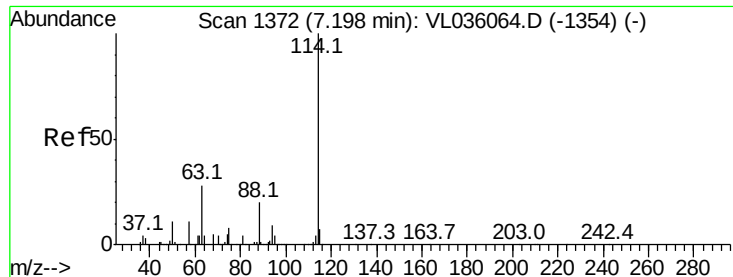
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#26
Hexane
Concen: 0.955 ppbv m
RT: 5.66 min Scan# 893
Delta R.T. -0.04 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Tgt Ion: 57 Resp: 122010
Ion Ratio Lower Upper
57 100
41 107.9 82.9 124.3
43 93.9 199.9 299.9#
56 57.4 43.1 64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

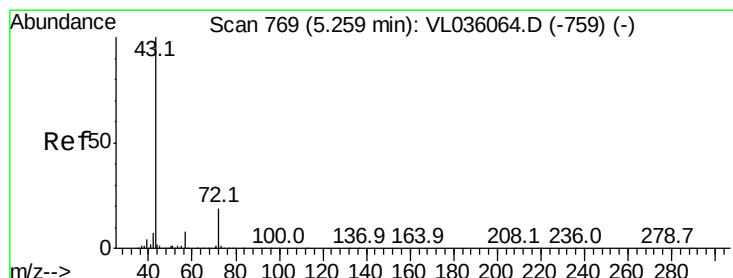
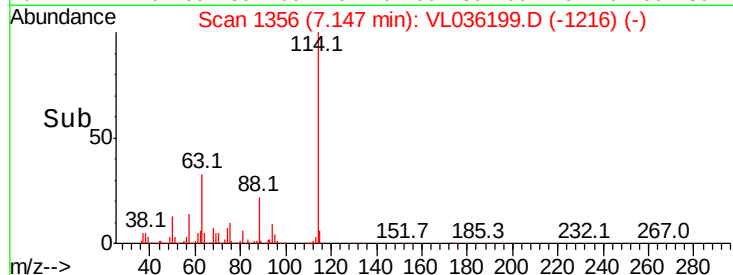
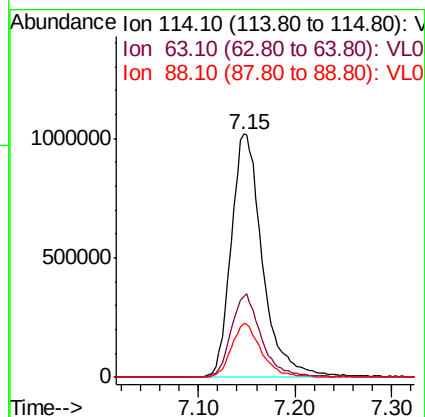
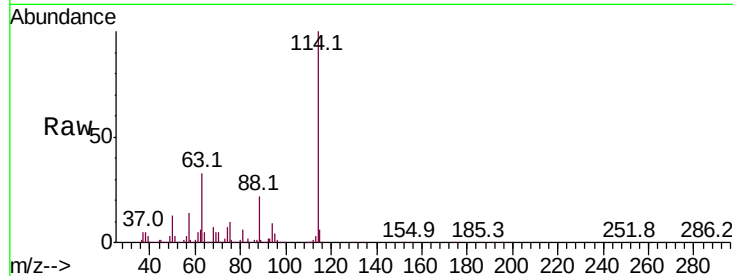
Instrument :
MSVOA_L
ClientSampleId :
SSSG1

Tot Ion:114 Resp: 2286047

Ion	Ratio	Lower	Upper
114	100		
63	33.5	23.6	35.4
88	21.4	15.8	23.6

Manual Integrations
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#34

2-Butanone

Concen: 0.635 ppbv m

RT: 5.23 min Scan# 759

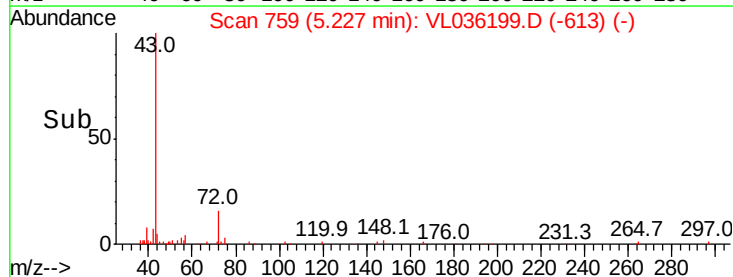
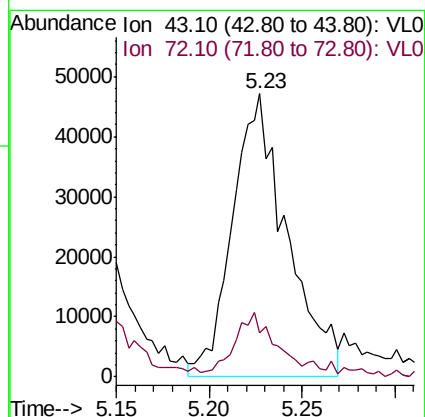
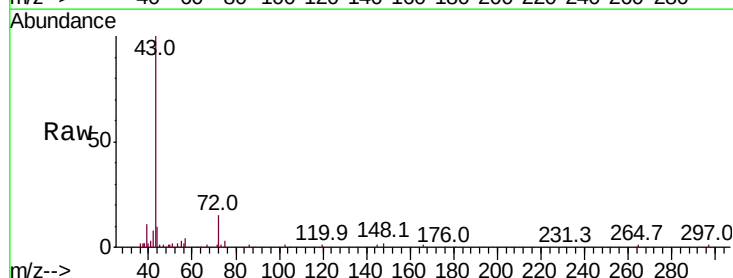
Delta R.T. -0.03 min

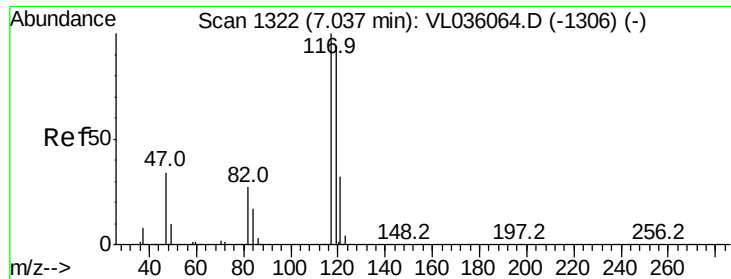
Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Tgt Ion: 43 Resp: 96247

Ion	Ratio	Lower	Upper
43	100		
72	21.0	16.5	24.7





#35

Carbon Tetrachloride

Concen: 0.073 ppbv m

RT: 6.99 min Scan# 1308

Delta R.T. -0.04 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Instrument :

MSVOA_L

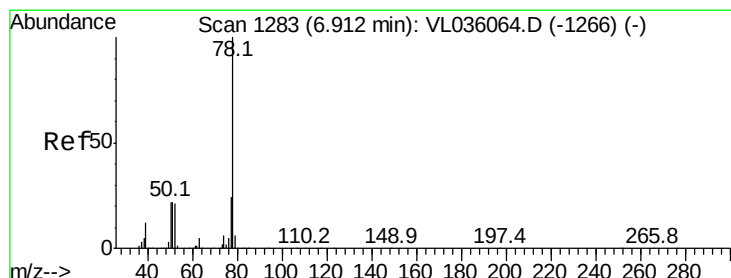
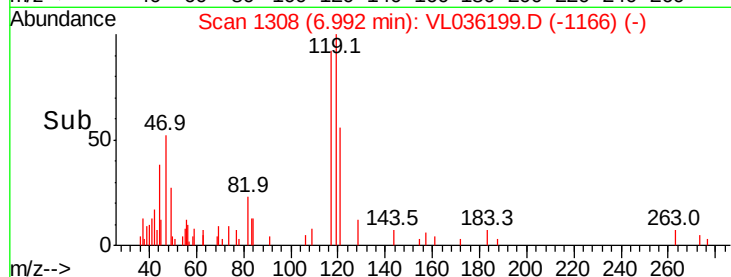
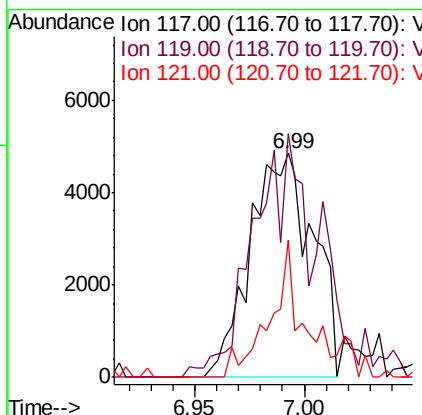
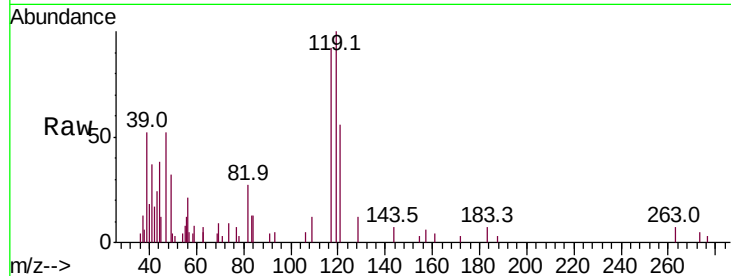
ClientSampled :

SSSG1

Tot Ion	Ratio	Lower	Upper
117	100		
119	108.7	75.1	112.7
121	61.1	25.6	38.4

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#36

Benzene

Concen: 0.543 ppbv m

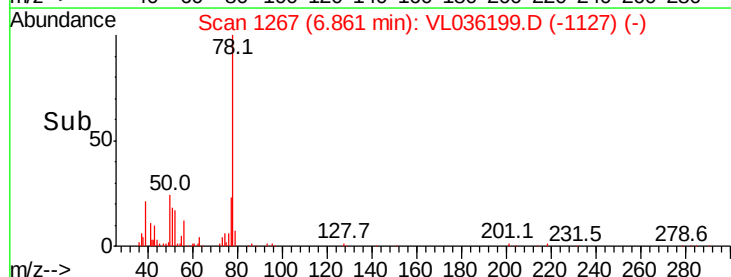
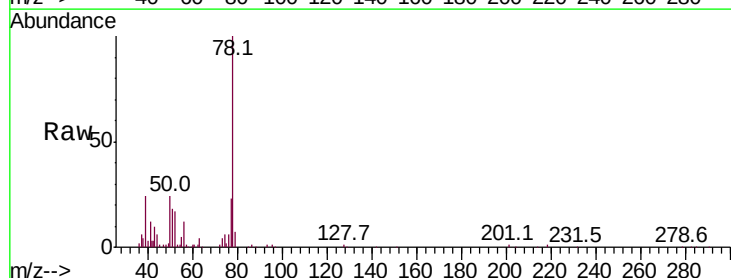
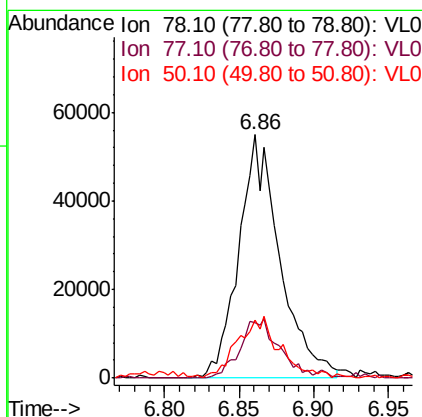
RT: 6.86 min Scan# 1267

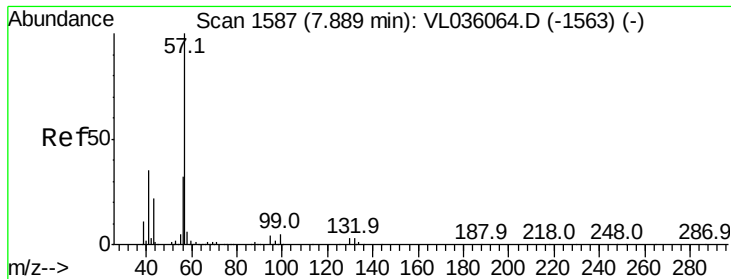
Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.4	29.2
50	24.1	17.8	26.8





#44

2,2,4-Trimethylpentane

Concen: 0.202 ppbv m

RT: 7.83 min Scan# 1570

Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Instrument :

MSVOA_L

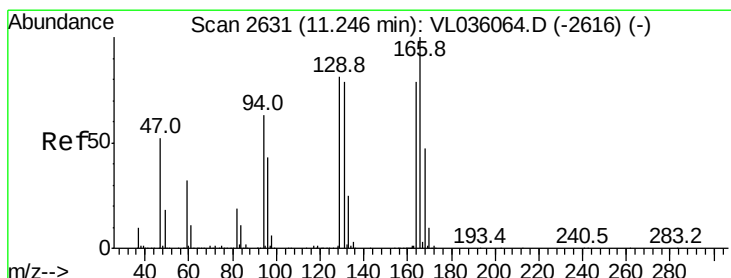
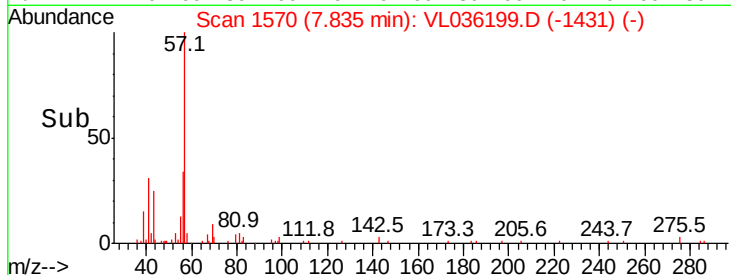
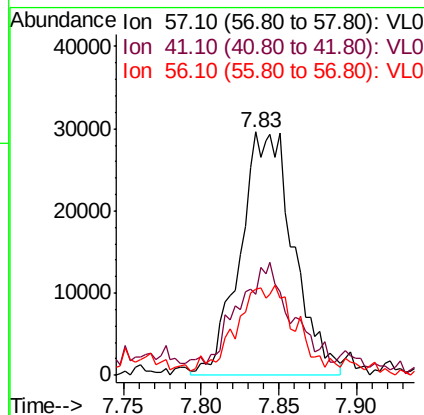
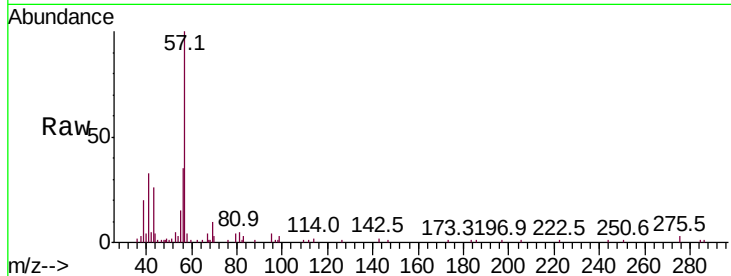
ClientSampleId :

SSSG1

Tot Ion	57	Resp	70782
Ion Ratio	Lower	Upper	
57	100		
41	0.0	28.9	43.3#
56	0.0	25.3	37.9#

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#52

Tetrachloroethene

Concen: 0.038 ppbv m

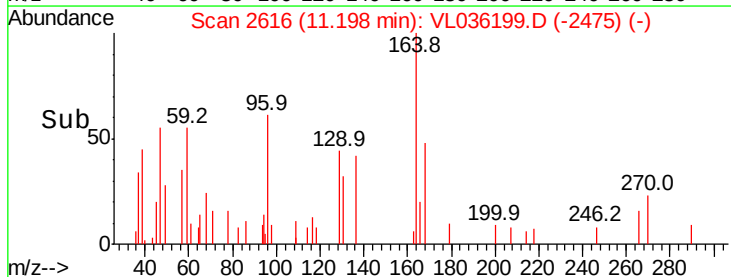
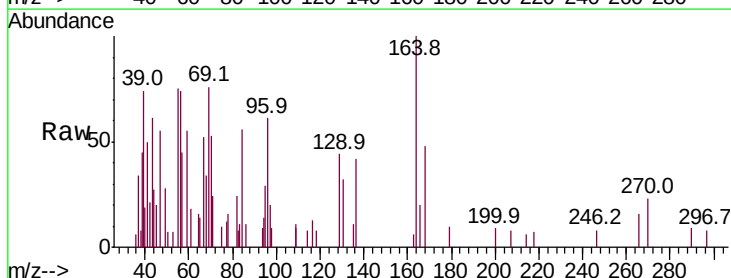
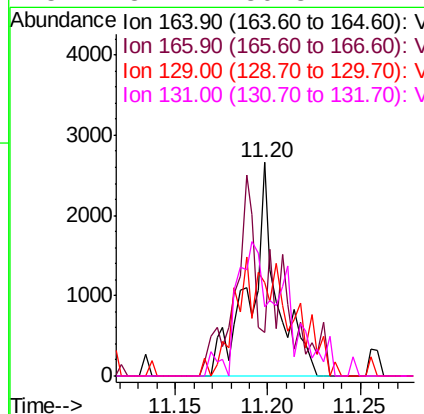
RT: 11.20 min Scan# 2616

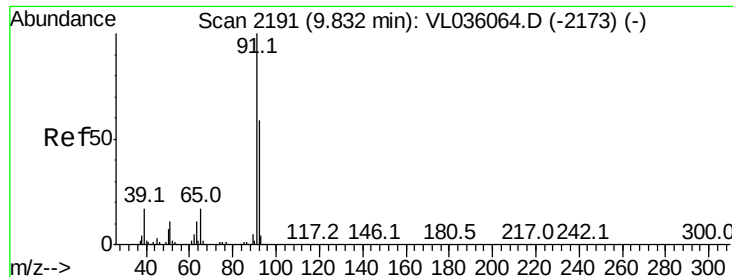
Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Tgt Ion	164	Resp	2674
Ion Ratio	Lower	Upper	
164	100		
166	20.4	101.9	152.9#
129	43.5	82.1	123.1#
131	32.2	80.8	121.2#





#53

Toluene

Concen: 1.281 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Instrument :

MSVOA_L

ClientSampleId :

SSSG1

Tot Ion: 91 Resp: 278785

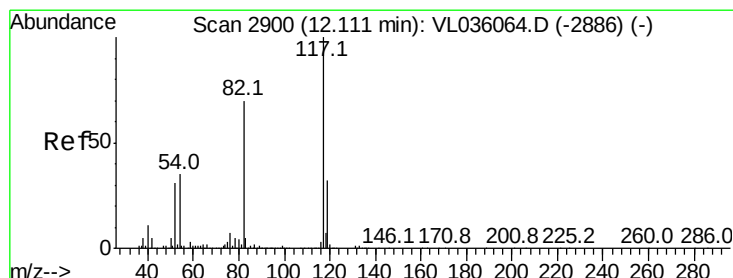
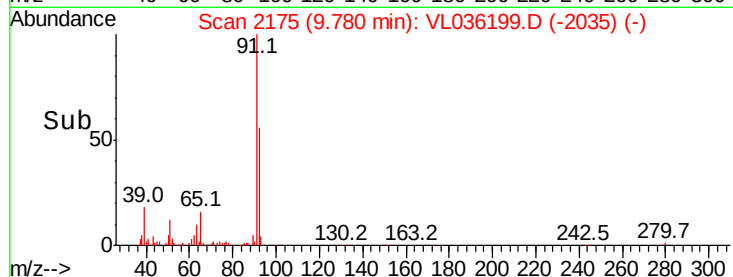
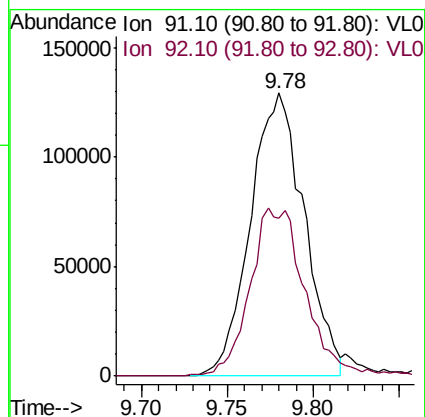
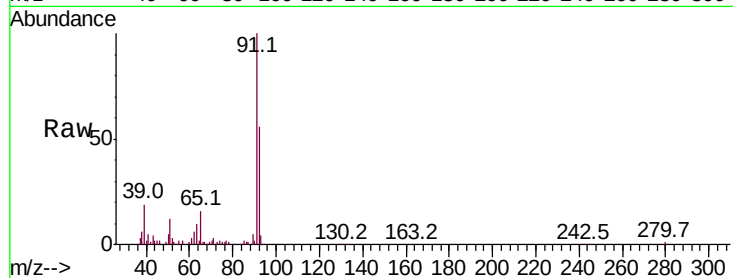
Ion Ratio Lower Upper

91 100

92 61.6 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

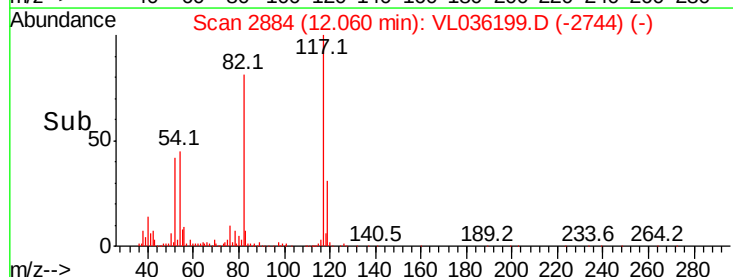
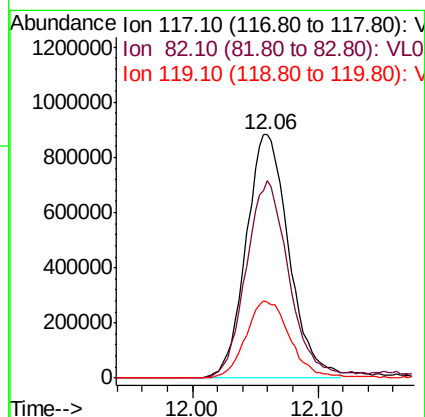
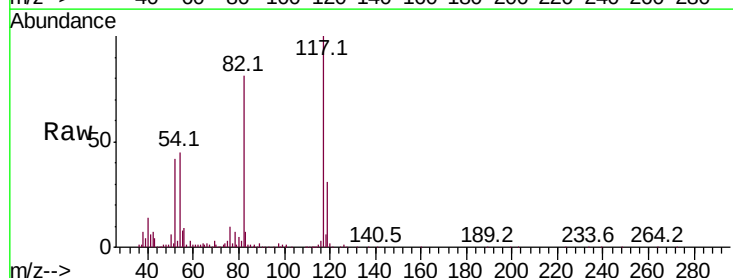
Tgt Ion: 117 Resp: 2095805

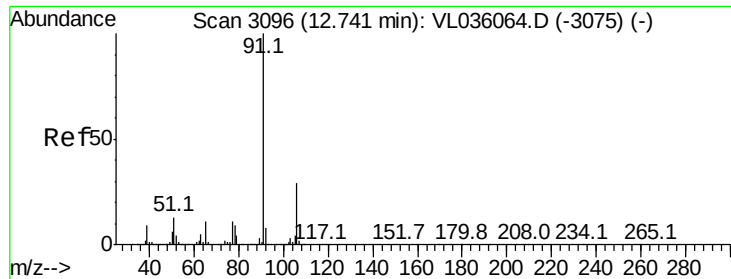
Ion Ratio Lower Upper

117 100

82 84.8 0.0 0.0#

119 33.0 0.0 0.0#





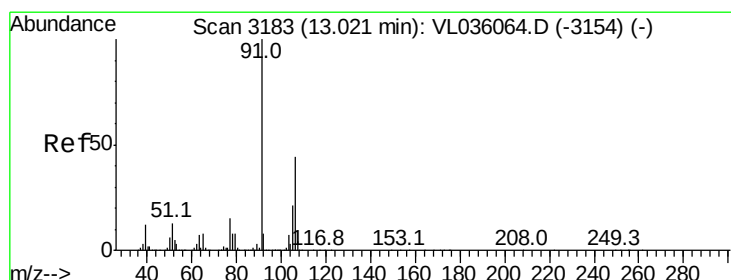
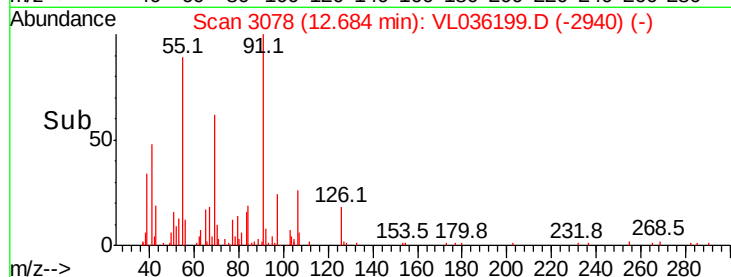
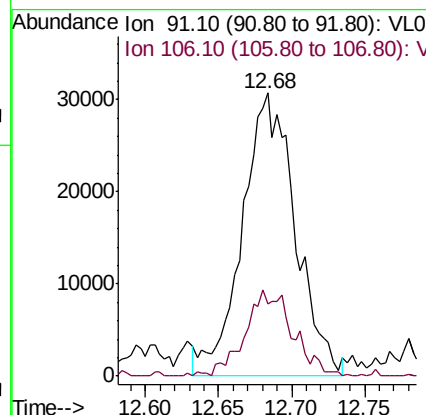
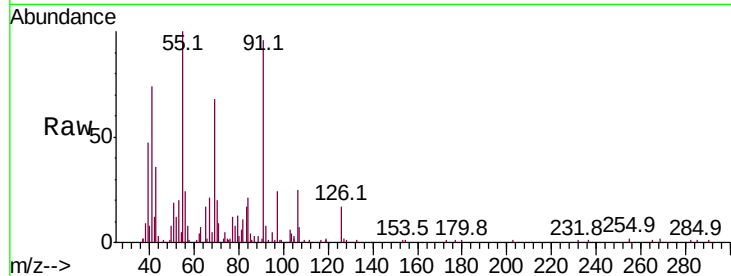
#58
Ethyl Benzene
Concen: 0.270 ppbv m
RT: 12.68 min Scan# 3078
Delta R.T. -0.06 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Instrument :
MSVOA_L
ClientSampled :
SSSG1

Tot Ion: 91 Resp: 77467
Ion Ratio Lower Upper
91 100
106 25.7 23.0 34.4

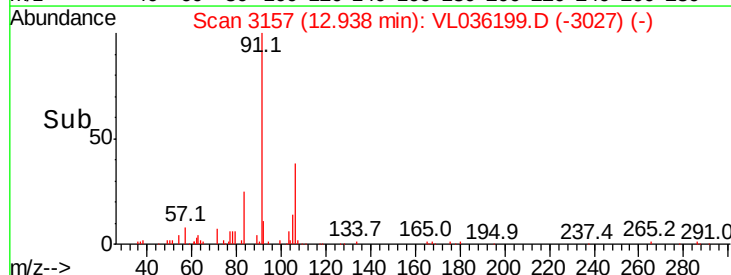
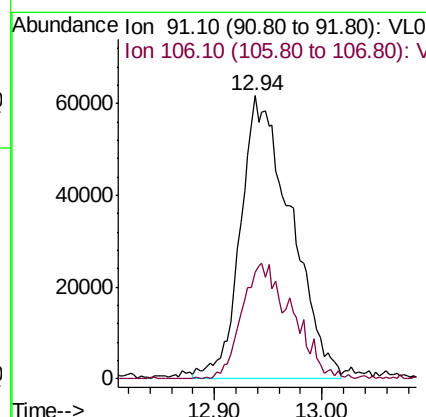
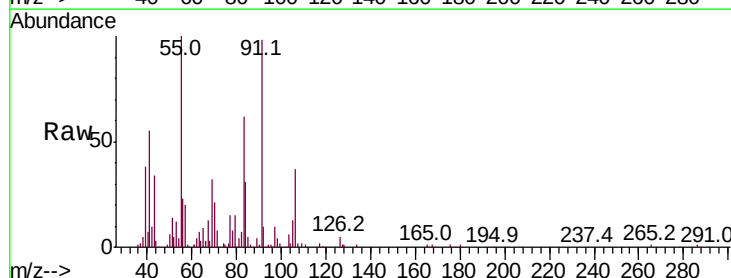
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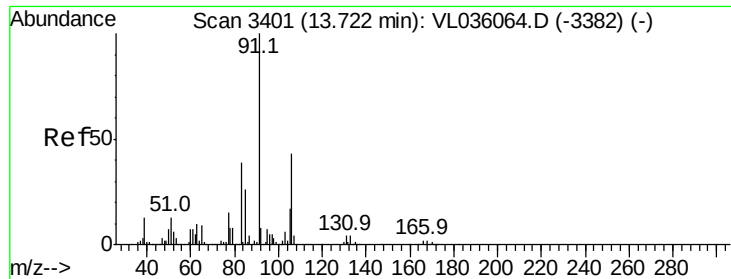
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#59
m/p-Xylene
Concen: 0.833 ppbv m
RT: 12.94 min Scan# 3157
Delta R.T. -0.08 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Tgt Ion: 91 Resp: 201409
Ion Ratio Lower Upper
91 100
106 40.8 33.6 50.4





#60

o-Xylene

Concen: 0.325 ppbv m

RT: 13.66 min Scan# 3383

Delta R.T. -0.06 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Instrument :

MSVOA_L

ClientSampleId :

SSSG1

Tot Ion: 91 Resp: 74026

Ion Ratio Lower Upper

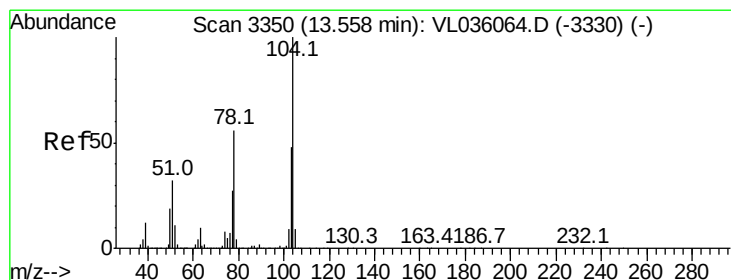
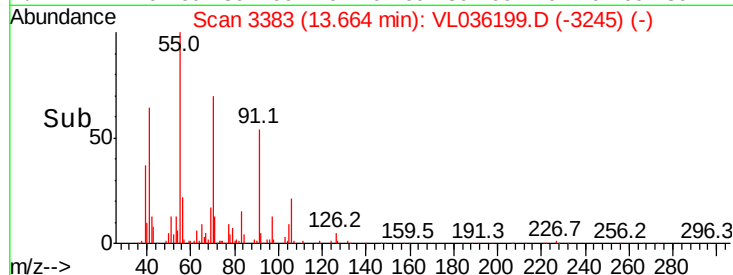
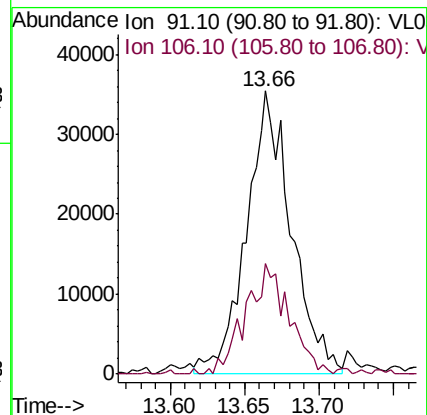
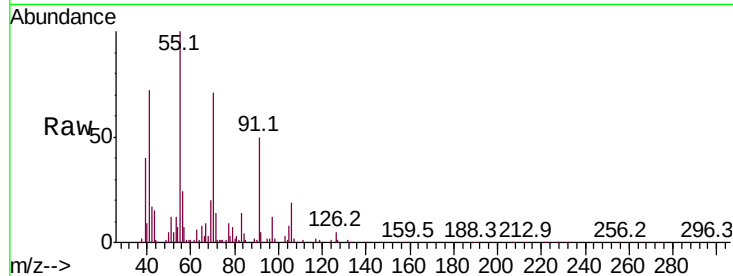
91 100

106 38.7 21.6 64.6

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#61

Styrene

Concen: 0.556 ppbv m

RT: 13.51 min Scan# 3334

Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

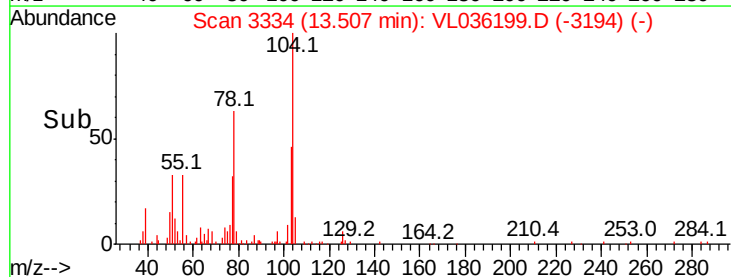
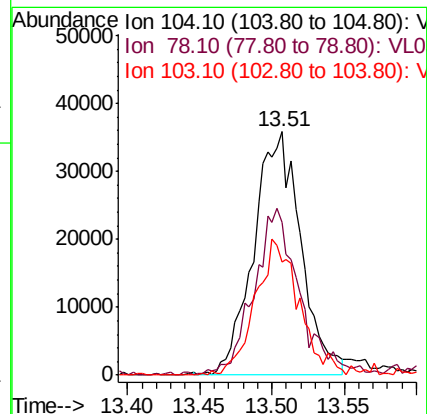
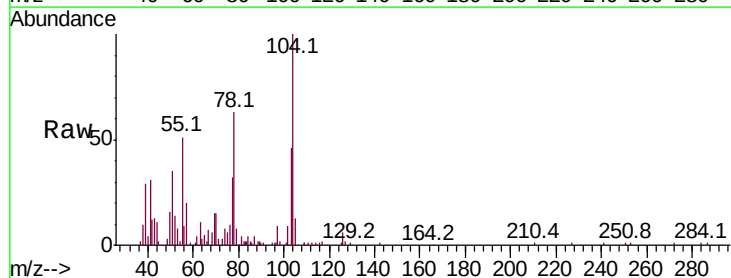
Tgt Ion: 104 Resp: 81323

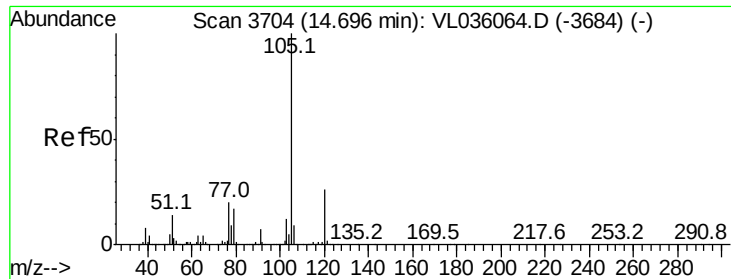
Ion Ratio Lower Upper

104 100

78 67.8 45.8 68.8

103 51.4 38.6 57.8





#62

Isopropylbenzene

Concen: 8.844 ppbv

RT: 14.64 min Scan# 3687

Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

Instrument :

MSVOA_L

ClientSampled :

SSSG1

Tot Ion:105 Resp: 2987934

Ion Ratio Lower Upper

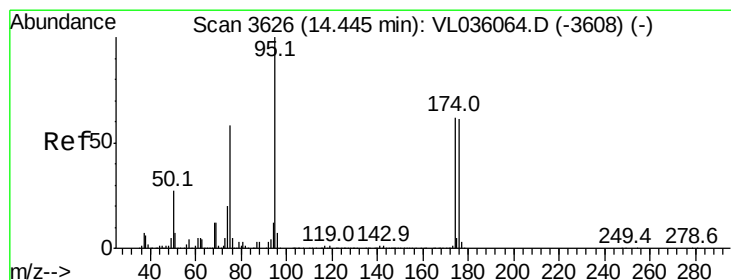
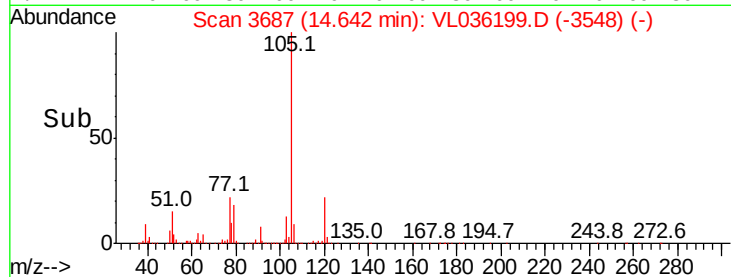
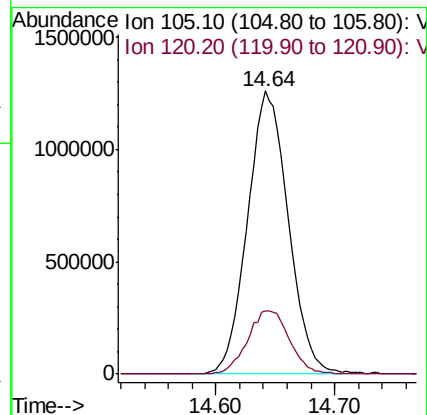
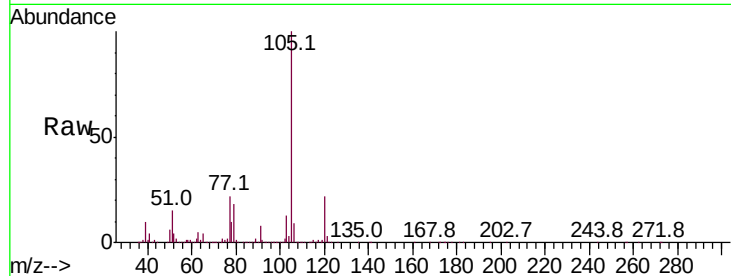
105 100

120 23.2 20.1 30.1

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#68

1-Bromo-4-Fluorobenzene

Concen: 11.518 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.05 min

Lab File: VL036199.D

Acq: 23 Dec 2020 19:32

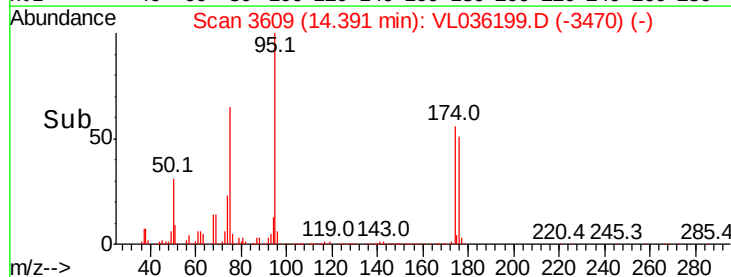
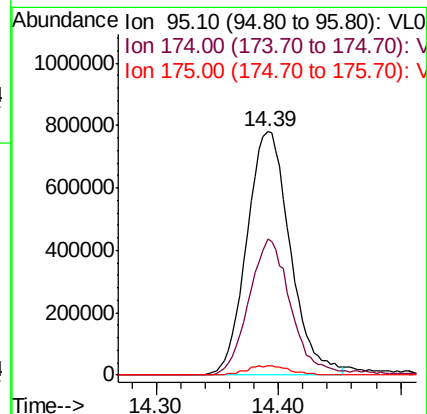
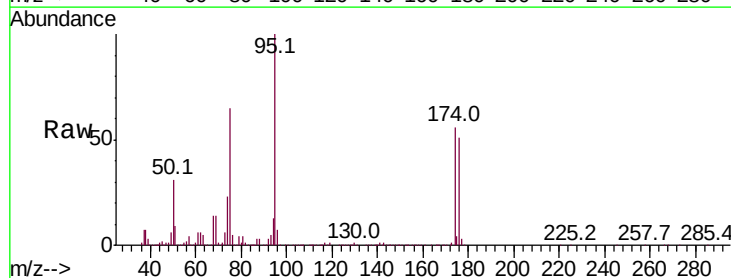
Tgt Ion: 95 Resp: 1916841

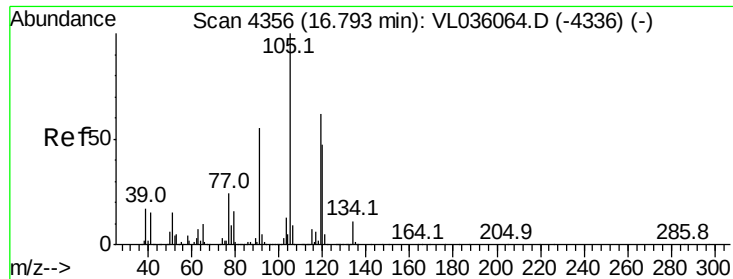
Ion Ratio Lower Upper

95 100

174 55.7 50.7 76.1

175 4.0 4.0 6.0#





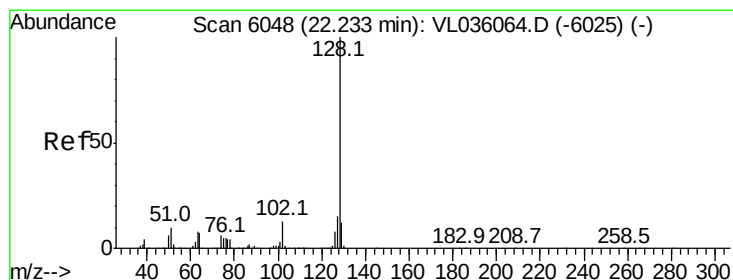
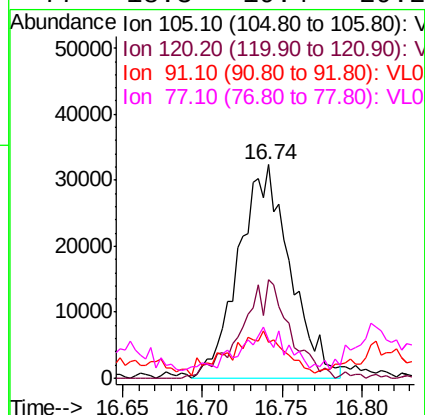
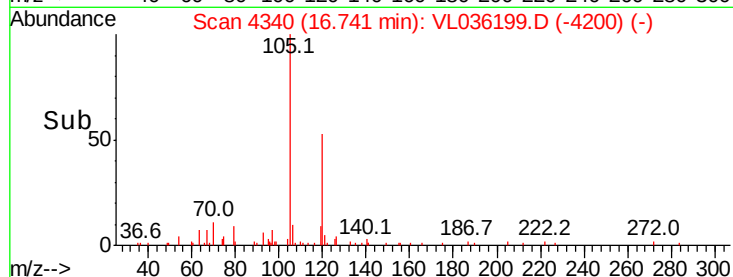
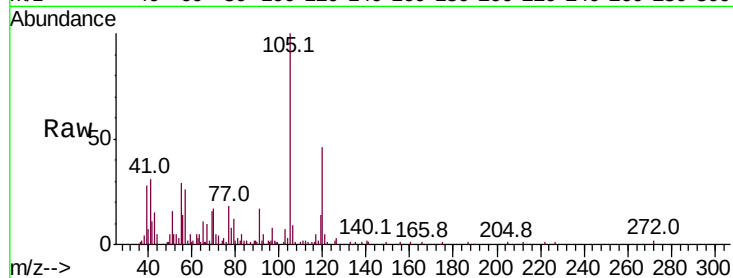
#74
1,2,4-Trimethylbenzene
Concen: 0.307 ppbv m
RT: 16.74 min Scan# 4340
Delta R.T. -0.05 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Instrument :
MSVOA_L
ClientSampled :
SSSG1

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
120	46.3	37.4	56.0	
91	16.9	45.6	68.4#	
77	18.3	19.4	29.2#	

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#79
Naphthalene
Concen: 0.282 ppbv m
RT: 22.18 min Scan# 6030
Delta R.T. -0.06 min
Lab File: VL036199.D
Acq: 23 Dec 2020 19:32

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
127	18.5	11.7	17.5#	
129	10.6	9.3	13.9	

