

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036508.D
 Acq On : 26 Mar 2021 10:58
 Operator : SY/AP
 Sample : M1748-38
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-SG-6(2021)

Manual Integrations
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 3/29/2021 4:38:30 PM

Quant Time: Mar 27 23:01:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 27 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1516764	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	3761049	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.12	117	3269890	10.00	ppbv	0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.45	95	2504408	9.61	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	35138m	0.142	ppbv	
3) Chlorodifluoromethane	3.00	51	166963m	0.589	ppbv	
4) Chloromethane	3.15	50	40213	0.402	ppbv #	82
9) Propene	3.03	41	97542	1.080	ppbv #	70
11) Trichlorofluoromethane	3.97	101	117261m	0.465	ppbv	
13) Ethanol	3.64	45	1302336	121.054	ppbv	94
15) Acetone	3.88	43	2002428	13.413	ppbv	98
19) Isopropyl Alcohol	4.02	45	123573m	1.505	ppbv	
20) Methylene Chloride	4.36	84	3002285	42.954	ppbv	93
22) trans-1,2-Dichloroethene	4.91	96	32972	0.496	ppbv	93
26) Hexane	5.71	57	2906669	17.648	ppbv #	47
29) Chloroform	5.78	83	9016337	34.230	ppbv	92
31) cis-1,2-Dichloroethene	5.57	61	280292	1.759	ppbv	97
32) 1,1,1-Trichloroethane	6.53	97	50219m	0.189	ppbv	
34) 2-Butanone	5.29	43	144624	0.788	ppbv	93
35) Carbon Tetrachloride	7.03	117	8217m	0.028	ppbv	
36) Benzene	6.93	78	142864	0.412	ppbv #	88
38) Trichloroethene	7.89	130	27377613	202.810	ppbv	87
52) Tetrachloroethene	11.26	164	1057347	8.278	ppbv	96
53) Toluene	9.84	91	116935	0.317	ppbv	100
59) m/p-Xylene	13.00	91	42804m	0.103	ppbv	

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

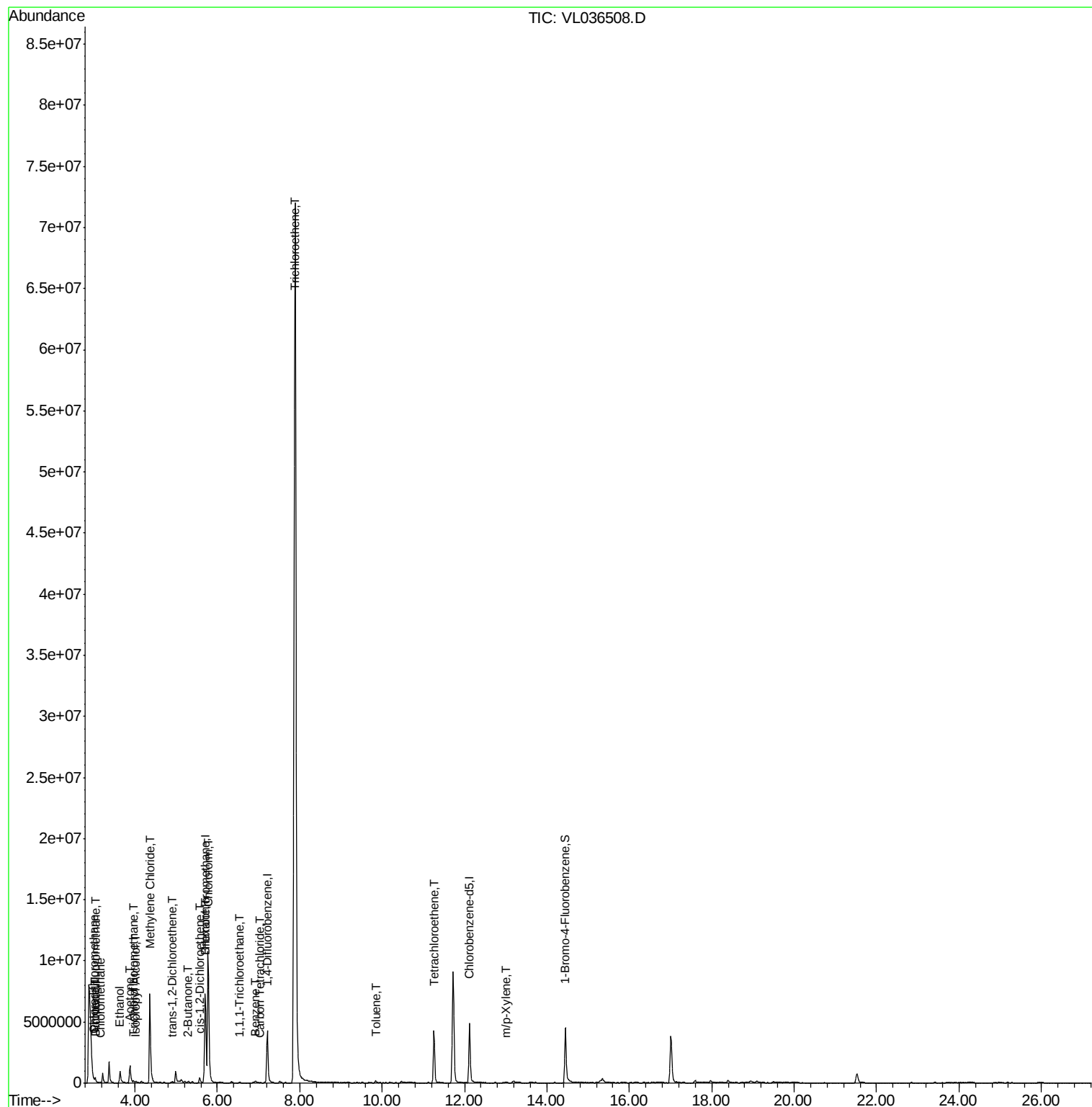
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036508.D
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Quant Time: Mar 27 23:01:01 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.02 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Instrument :

MSVOA_L

ClientSampleId :

GOI-SG-6(2021)

Tot Ion: 49 Resp: 1516764

Ion Ratio Lower Upper

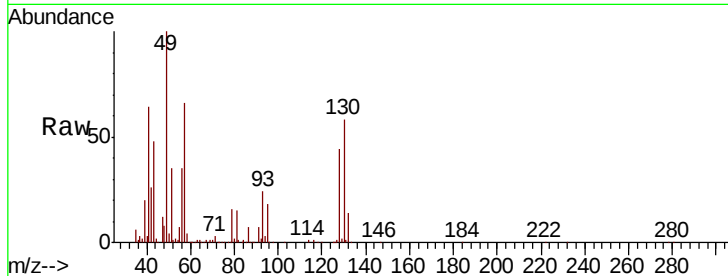
49 100

128 46.8 23.5 70.6

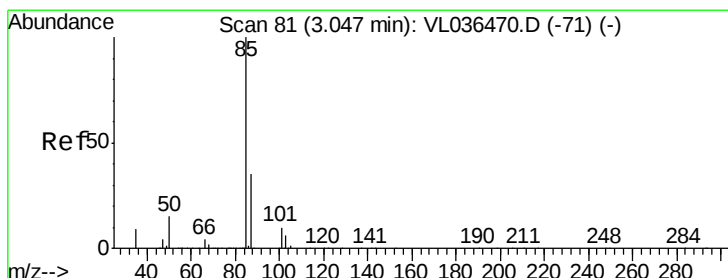
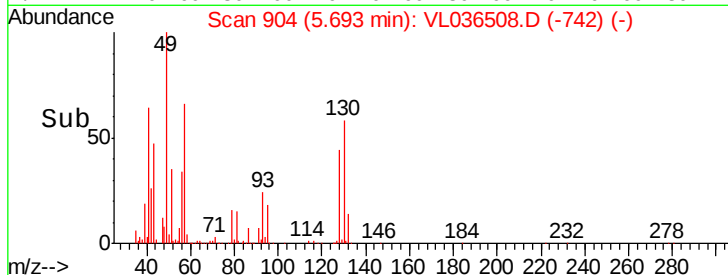
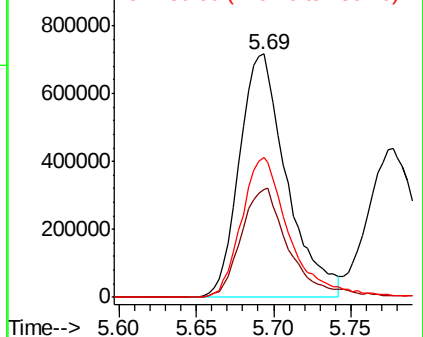
130 59.6 29.1 87.4

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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.142 ppbv m

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL036508.D

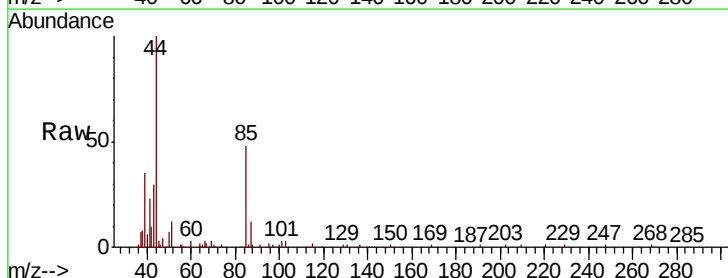
Acq: 26 Mar 2021 10:58

Tgt Ion: 85 Resp: 35138

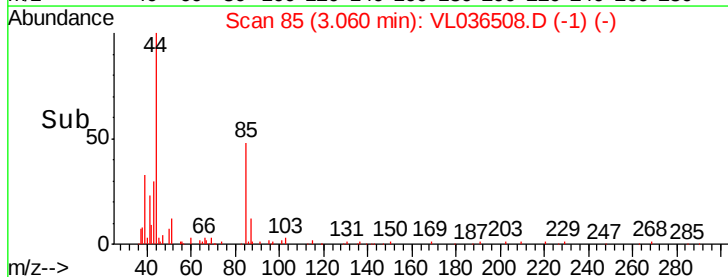
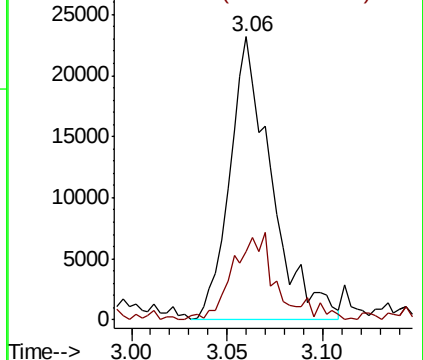
Ion Ratio Lower Upper

85 100

87 24.3 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

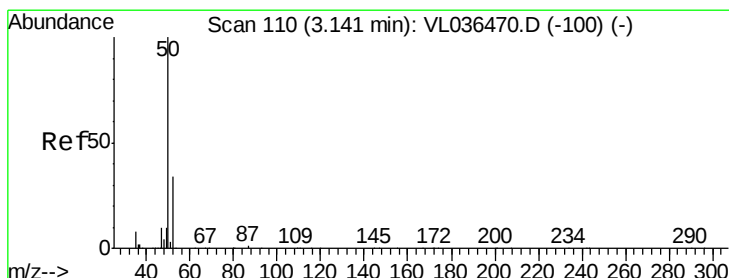
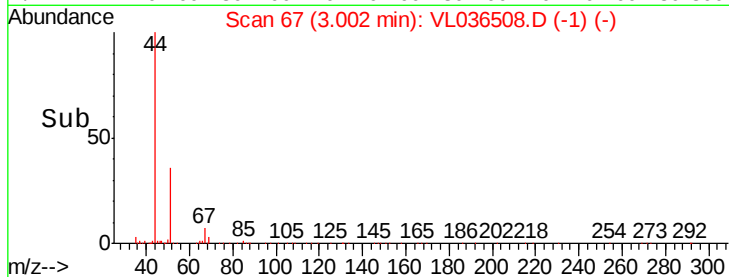
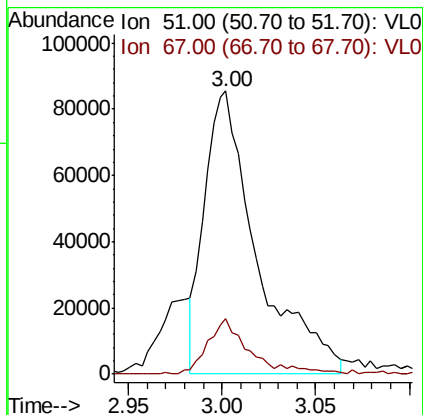
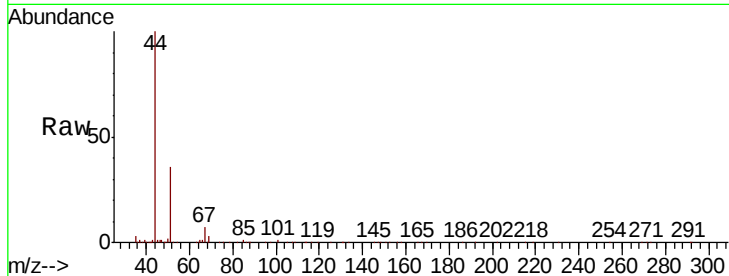
Chlorodifluoromethane
Concen: 0.589 ppbv m
RT: 3.00 min Scan# 67
Delta R.T. 0.02 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
51	100		
67	16.3	14.7	22.1

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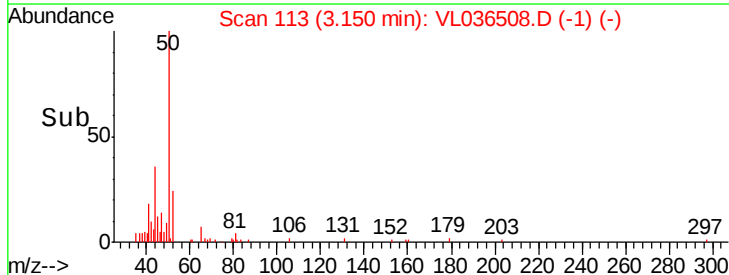
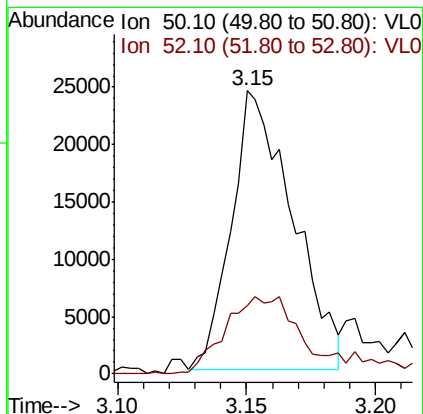
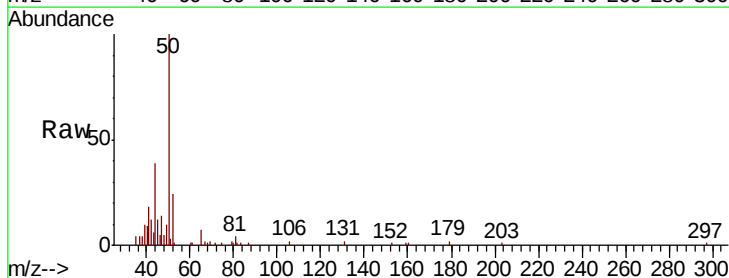
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#4

Chloromethane
Concen: 0.402 ppbv
RT: 3.15 min Scan# 113
Delta R.T. 0.01 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.7	27.0	40.6#





#9

Propene

Concen: 1.080 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Instrument :

MSVOA_L

ClientSampleId :

GOI-SG-6(2021)

Tot Ion: 41 Resp: 97542

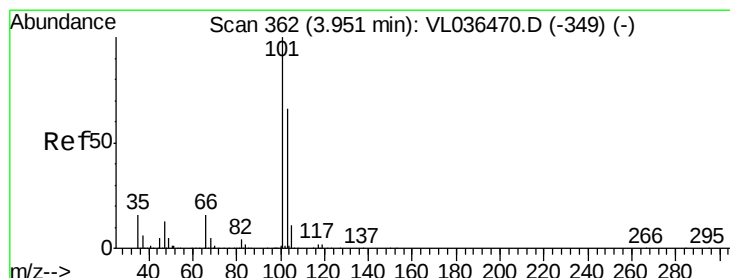
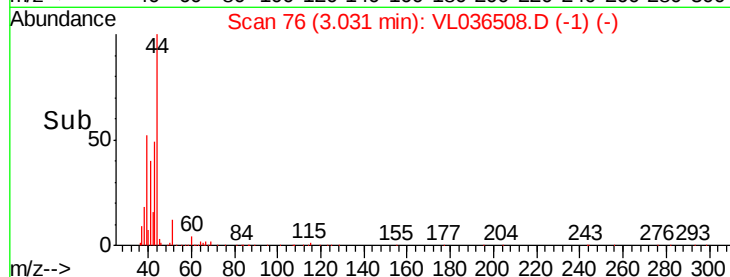
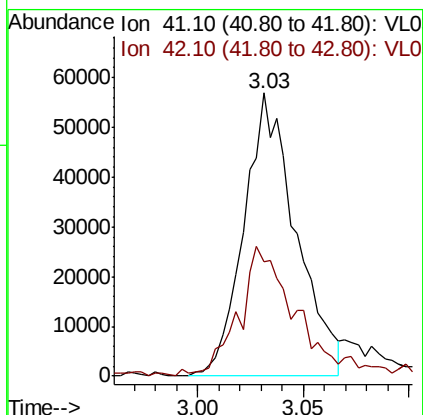
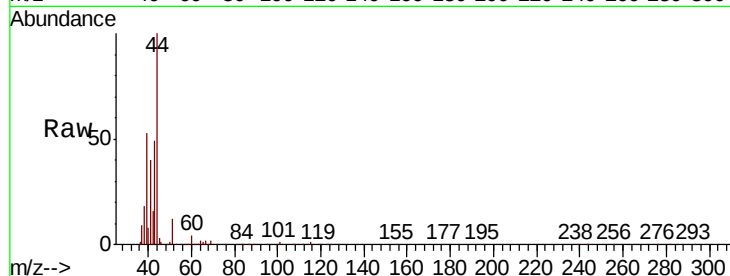
Ion Ratio Lower Upper

41 100

42 46.7 57.0 85.4#

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.465 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL036508.D

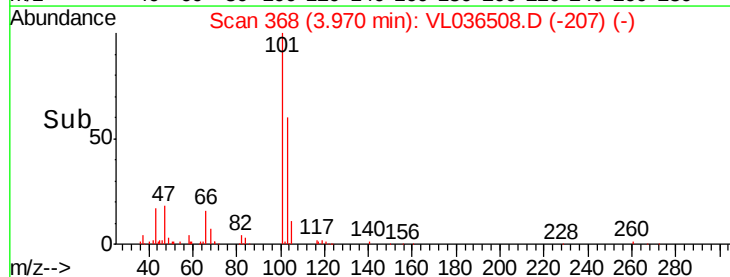
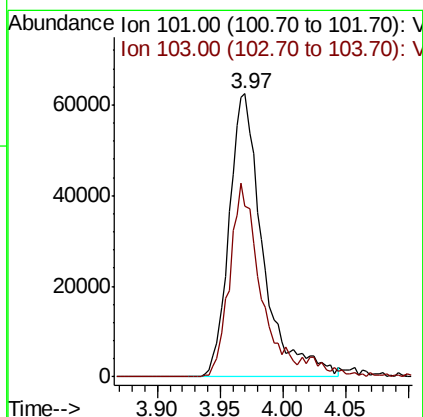
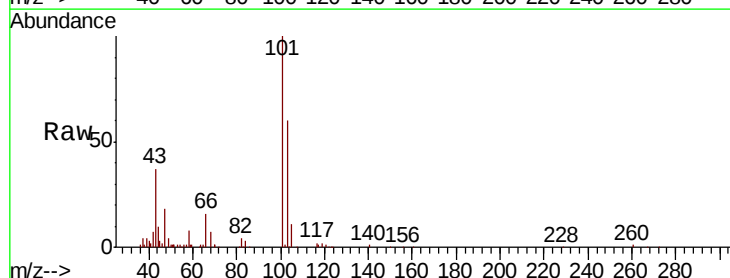
Acq: 26 Mar 2021 10:58

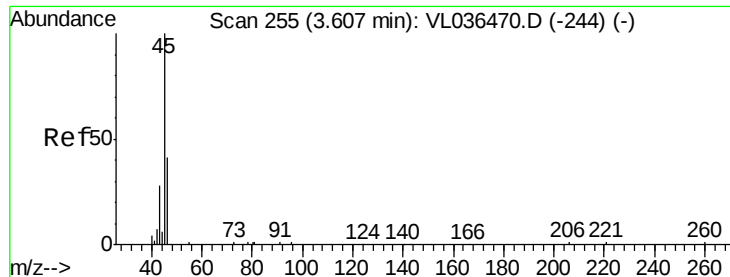
Tgt Ion: 101 Resp: 117261

Ion Ratio Lower Upper

101 100

103 60.4 52.5 78.7





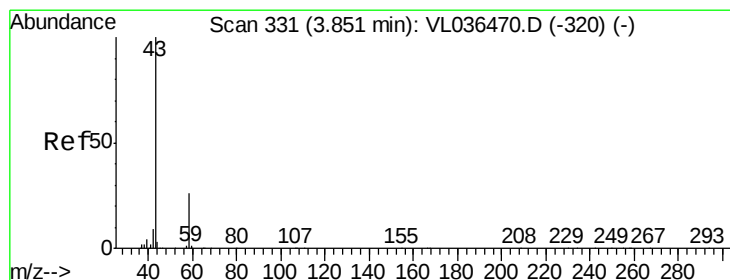
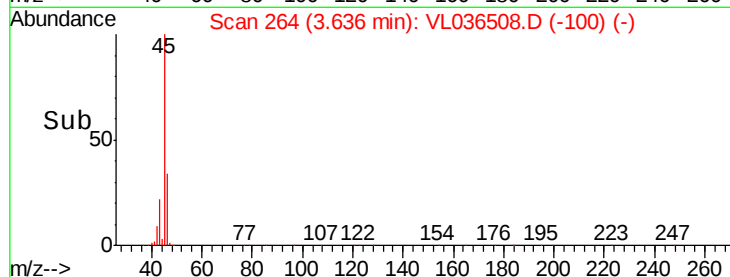
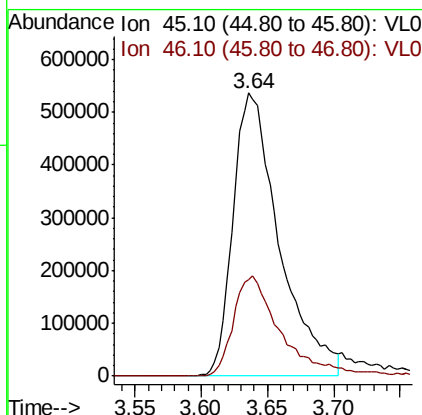
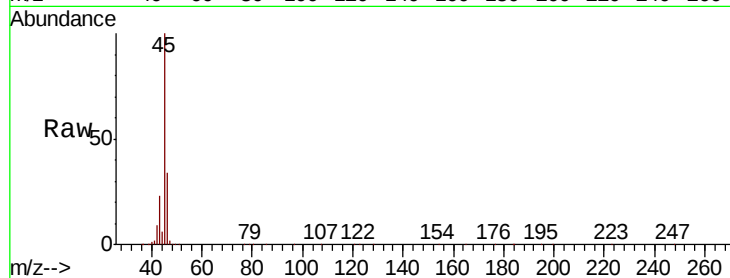
#13
Ethanol
Concen: 121.054 ppbv
RT: 3.64 min Scan# 264
Delta R.T. 0.03 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-6(2021)

Tot Ion: 45 Resp: 1302336
Ion Ratio Lower Upper
45 100
46 37.6 16.6 66.2

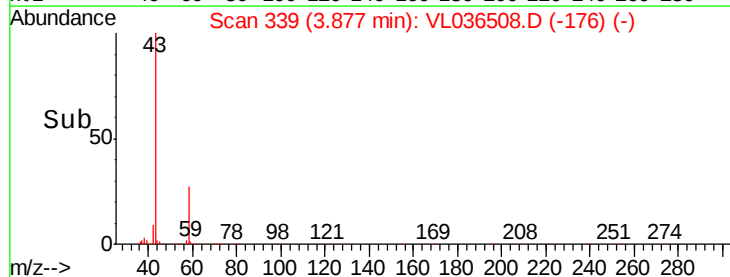
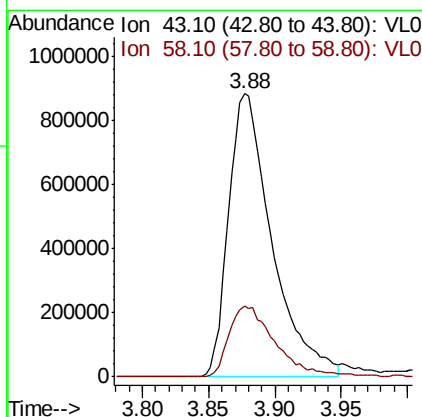
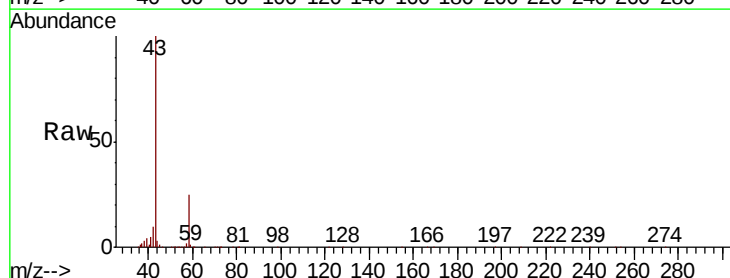
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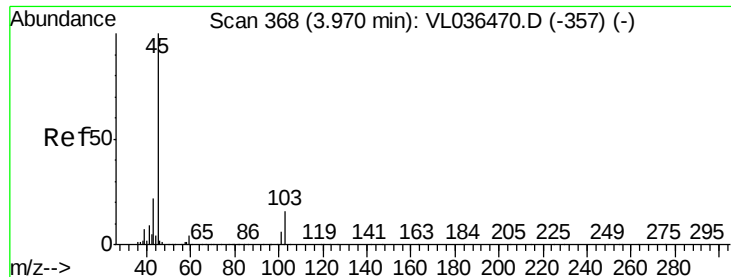
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#15
Acetone
Concen: 13.413 ppbv
RT: 3.88 min Scan# 339
Delta R.T. 0.03 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Tgt Ion: 43 Resp: 2002428
Ion Ratio Lower Upper
43 100
58 27.7 21.2 31.8





#19

Isopropyl Alcohol

Concen: 1.505 ppbv m

RT: 4.02 min Scan# 382

Delta R.T. 0.04 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Instrument :

MSVOA_L

ClientSampleId :

GOI-SG-6(2021)

Tot Ion: 45 Resp: 123573

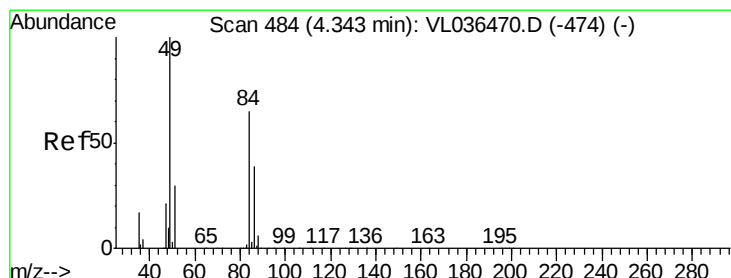
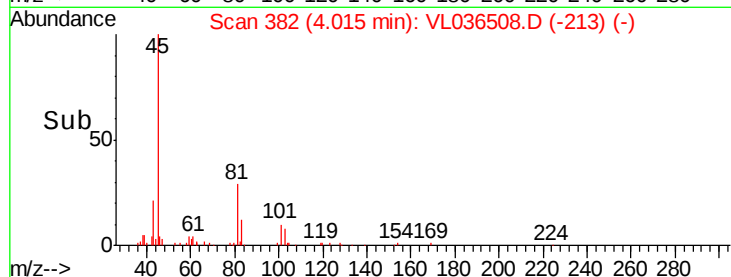
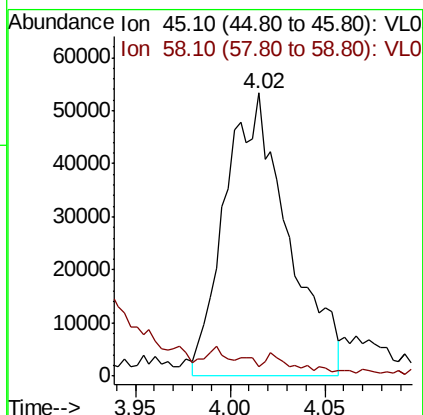
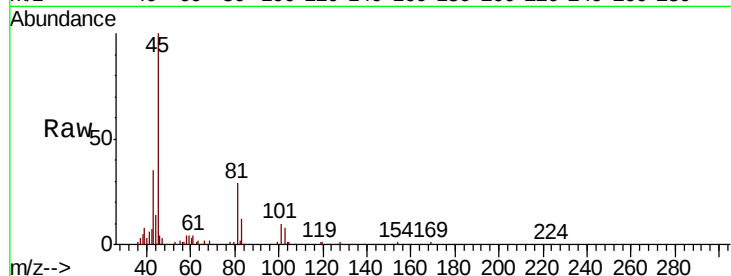
Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#

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#20

Methylene Chloride

Concen: 42.954 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Tgt Ion: 84 Resp: 3002285

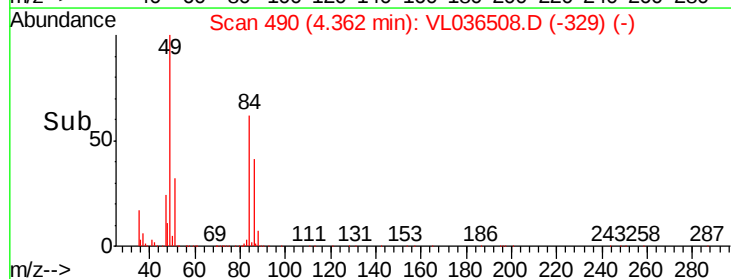
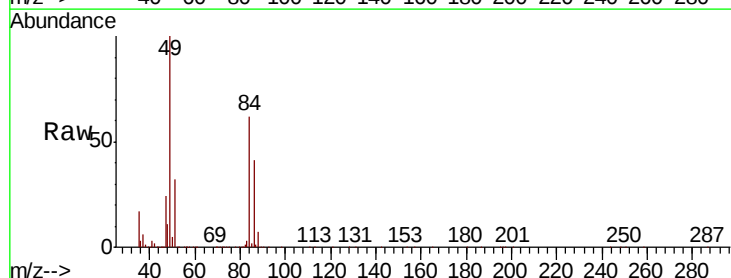
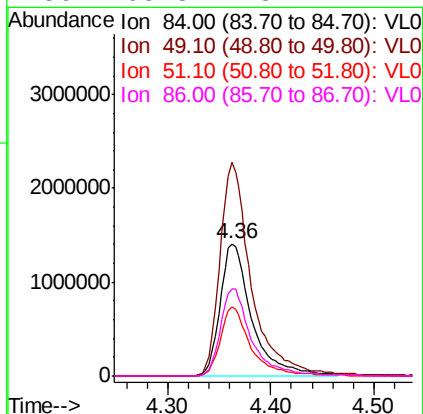
Ion Ratio Lower Upper

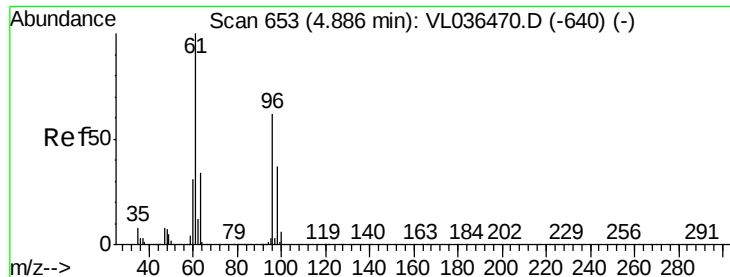
84 100

49 161.3 122.9 184.3

51 51.9 36.9 55.3

86 65.8 48.2 72.4





#22

trans-1,2-Dichloroethene

Concen: 0.496 ppbv

RT: 4.91 min Scan# 660

Delta R.T. 0.02 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Instrument :

MSVOA_L

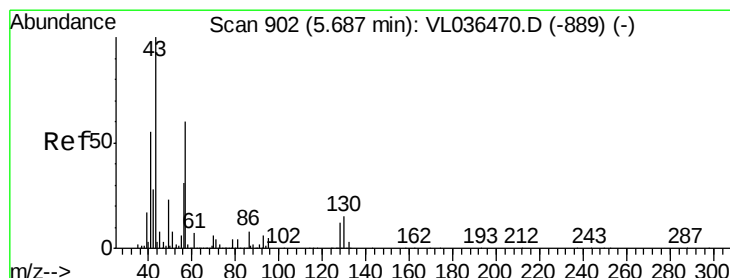
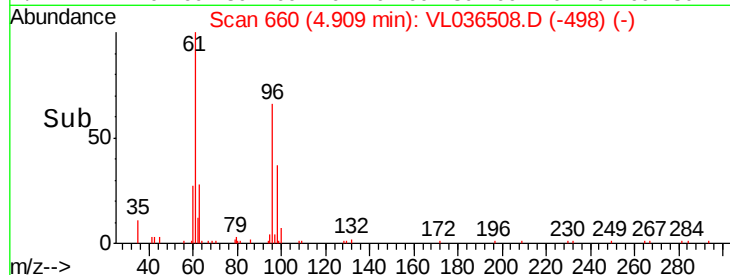
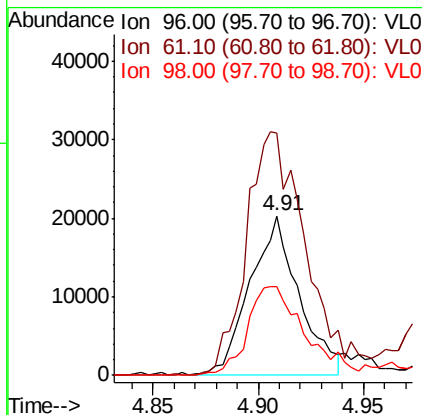
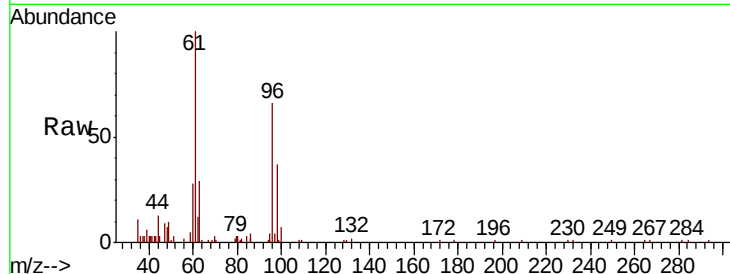
ClientSampleId :

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Tot Ion:	96	Resp:	32972
Ion	Ratio	Lower	Upper
96	100		
61	152.0	129.4	194.0
98	55.7	48.2	72.4

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#26

Hexane

Concen: 17.648 ppbv

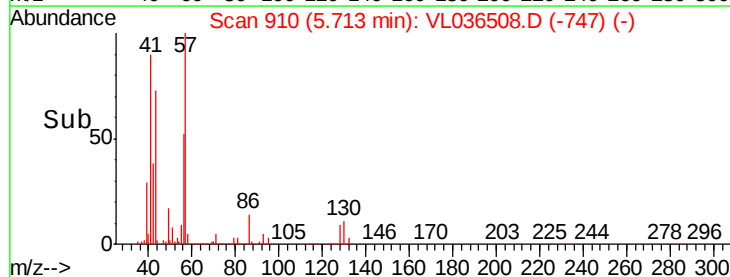
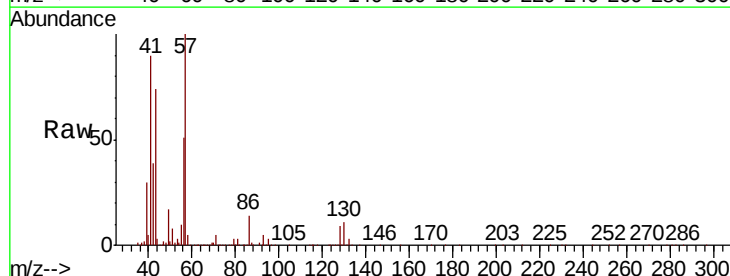
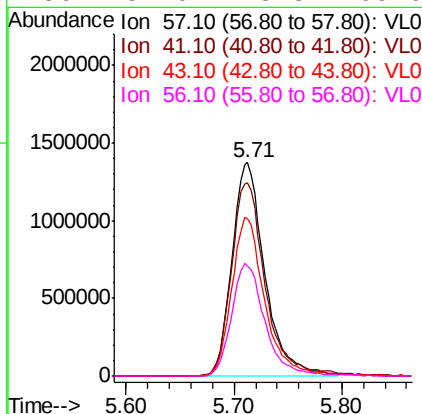
RT: 5.71 min Scan# 910

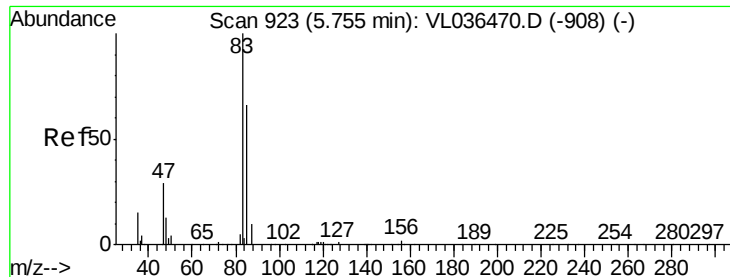
Delta R.T. 0.03 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Tgt Ion:	57	Resp:	2906669
Ion	Ratio	Lower	Upper
57	100		
41	94.7	77.2	115.8
43	75.1	173.8	260.6#
56	54.0	43.8	65.6





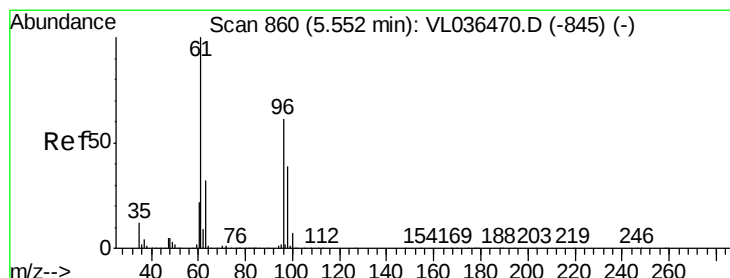
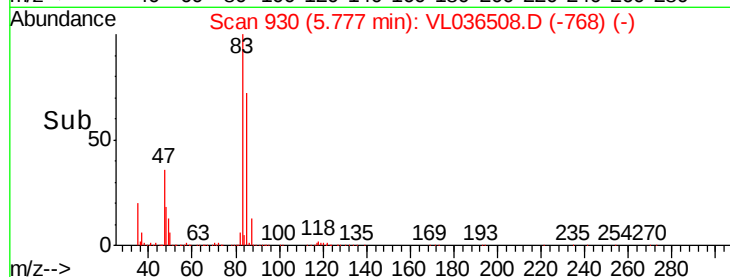
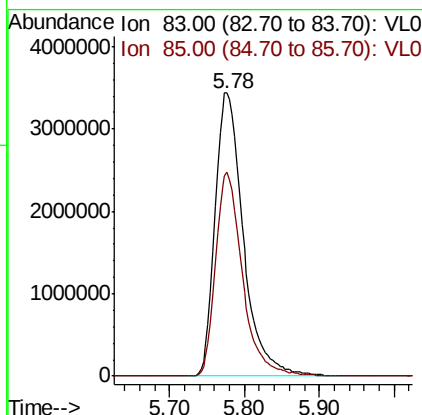
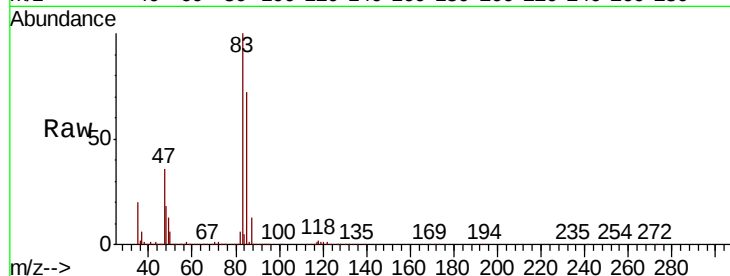
#29
Chloroform
Concen: 34.230 ppbv
RT: 5.78 min Scan# 930
Delta R.T. 0.02 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-6(2021)

Tot Ion: 83 Resp: 9016337
Ion Ratio Lower Upper
83 100
85 71.8 52.6 78.8

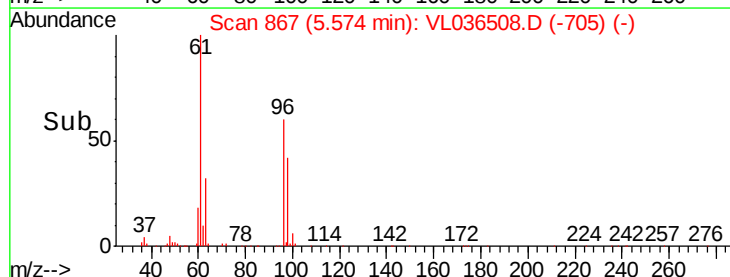
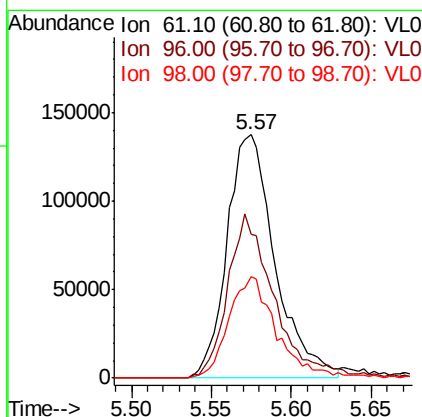
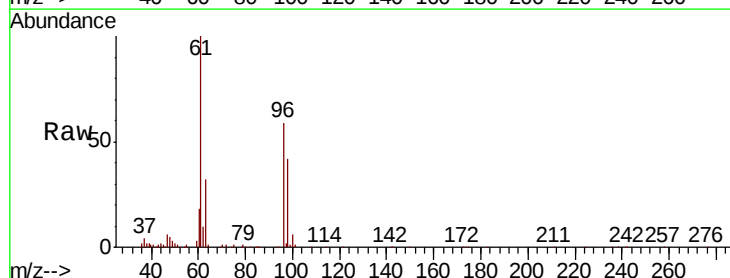
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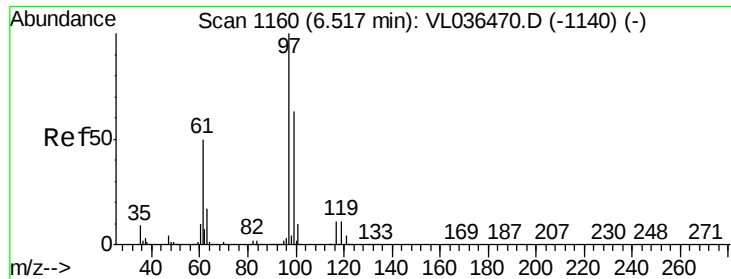
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#31
cis-1,2-Dichloroethene
Concen: 1.759 ppbv
RT: 5.57 min Scan# 867
Delta R.T. 0.02 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Tgt Ion: 61 Resp: 280292
Ion Ratio Lower Upper
61 100
96 58.6 48.7 73.1
98 41.7 31.4 47.0





#32

1,1,1-Trichloroethane

Concen: 0.189 ppbv m

RT: 6.53 min Scan# 1165

Delta R.T. 0.02 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Instrument :

MSVOA_L

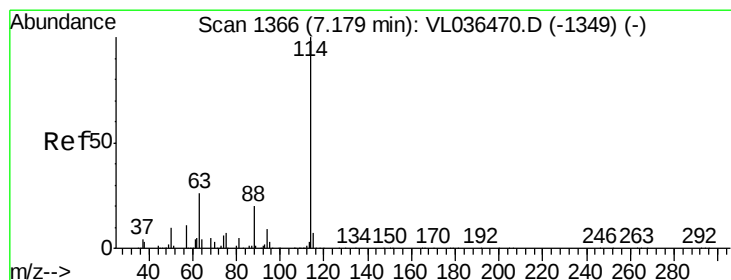
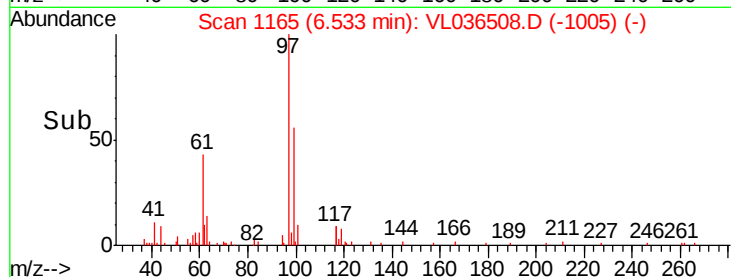
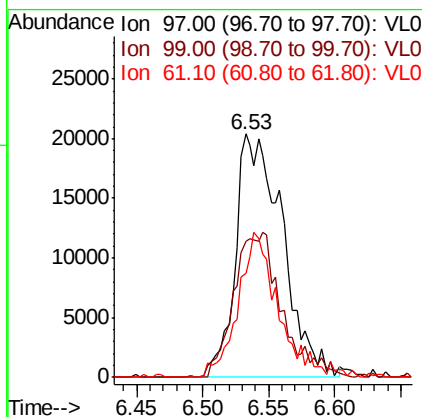
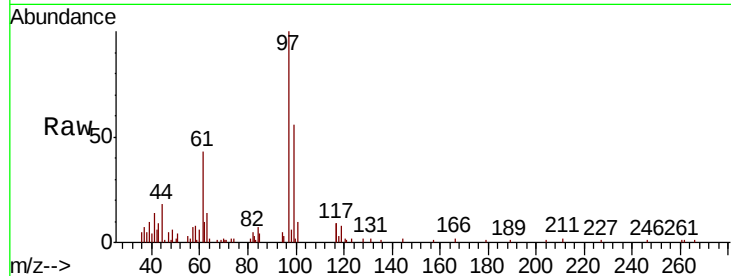
ClientSampleId :

GOI-SG-6(2021)

Tot Ion:	97	Resp:	50219
Ion	Ratio	Lower	Upper
97	100		
99	60.8	51.4	77.0
61	52.3	40.6	60.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

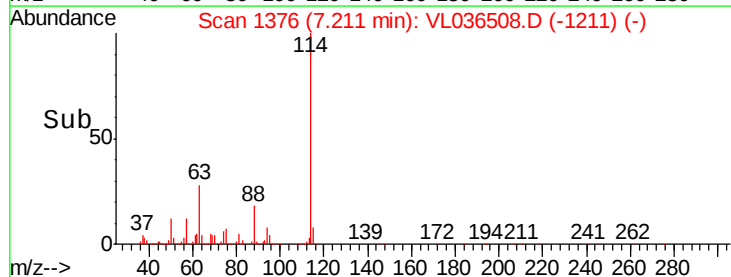
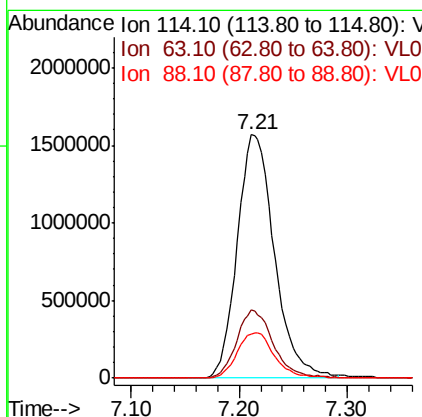
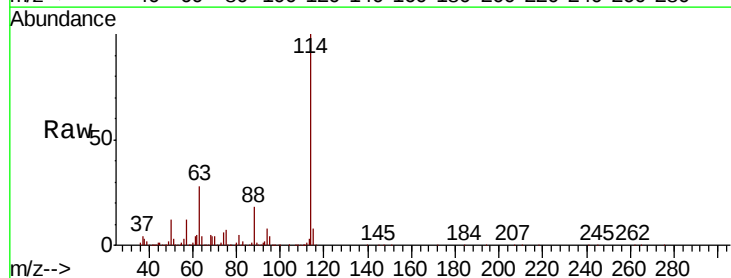
RT: 7.21 min Scan# 1376

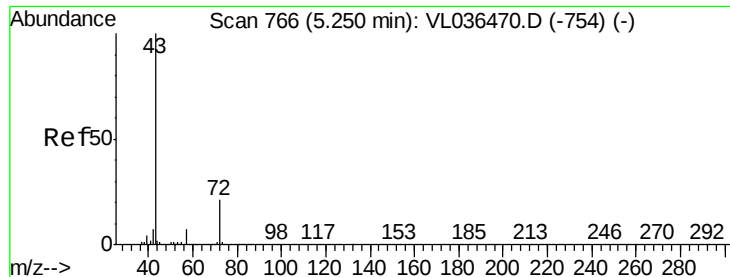
Delta R.T. 0.03 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Tgt Ion:	114	Resp:	3761049
Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.4	33.6
88	19.0	15.4	23.0





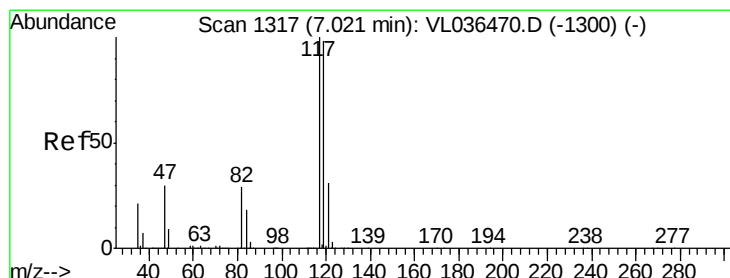
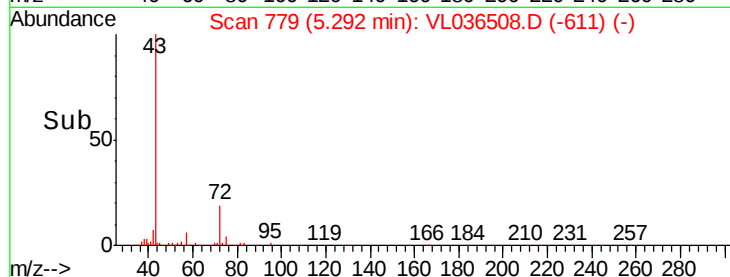
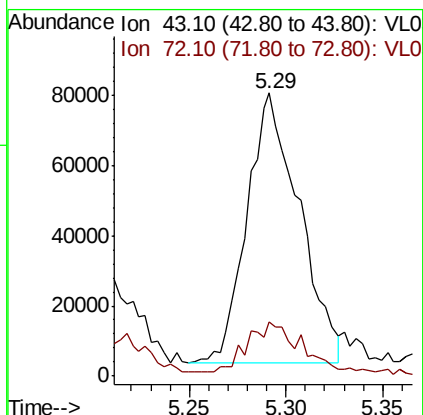
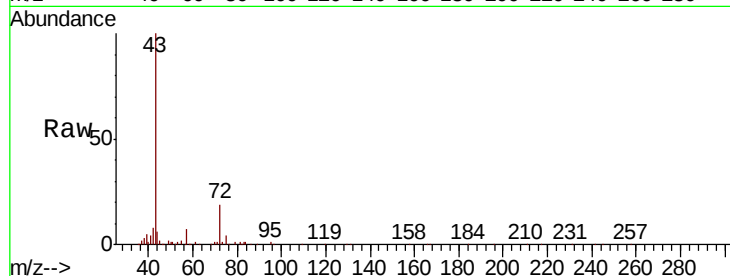
#34
2-Butanone
Concen: 0.788 ppbv
RT: 5.29 min Scan# 779
Delta R.T. 0.04 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-6(2021)

Tot Ion	43	Resp	144624
Ion	Ratio	Lower	Upper
43	100		
72	24.5	17.0	25.6

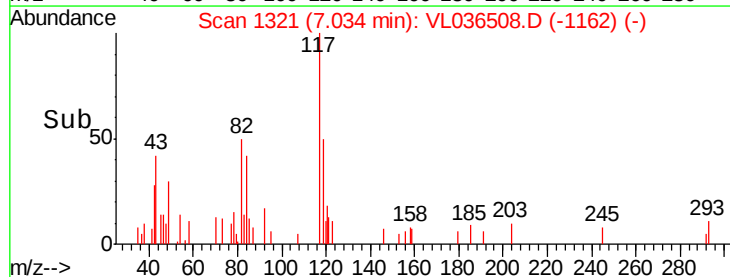
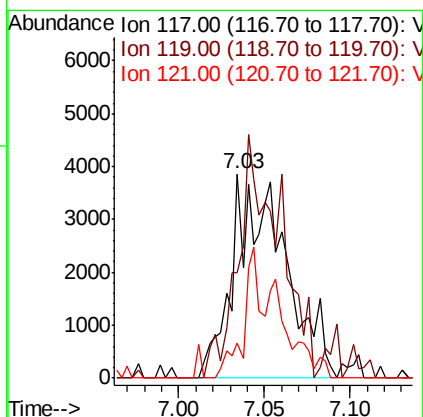
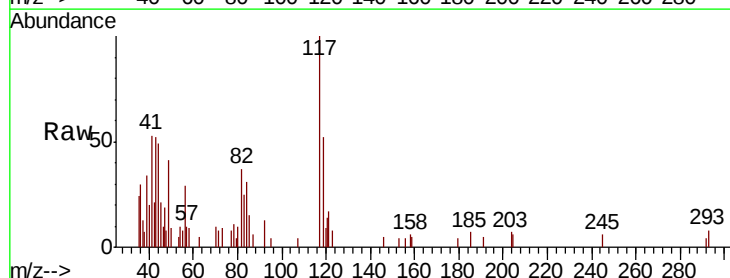
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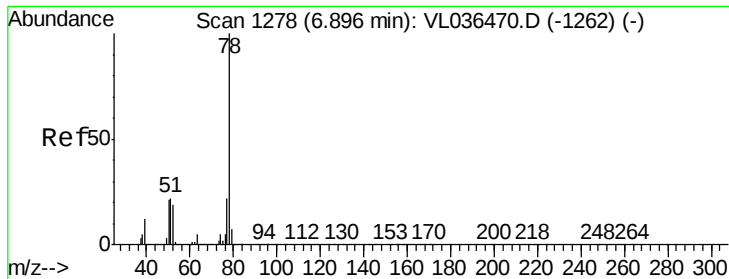
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#35
Carbon Tetrachloride
Concen: 0.028 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. 0.01 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Tgt Ion	117	Resp	8217
Ion	Ratio	Lower	Upper
117	100		
119	51.8	78.2	117.2#
121	16.9	24.5	36.7#





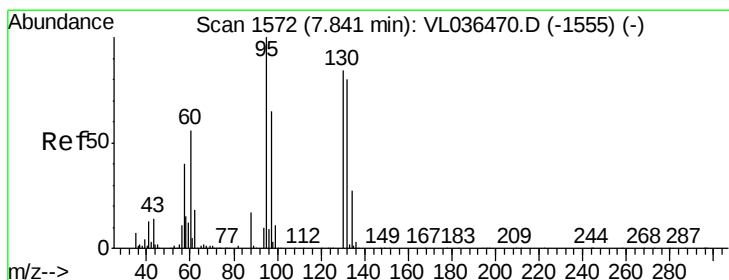
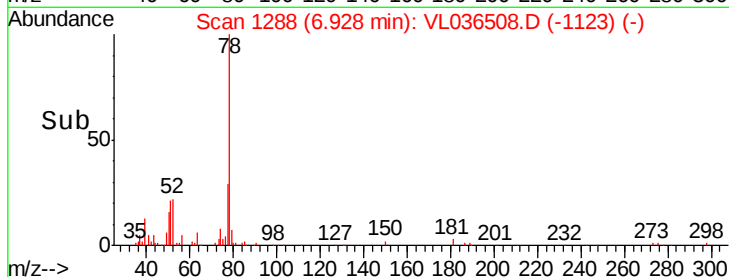
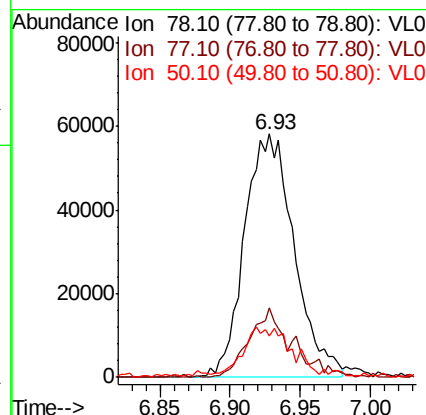
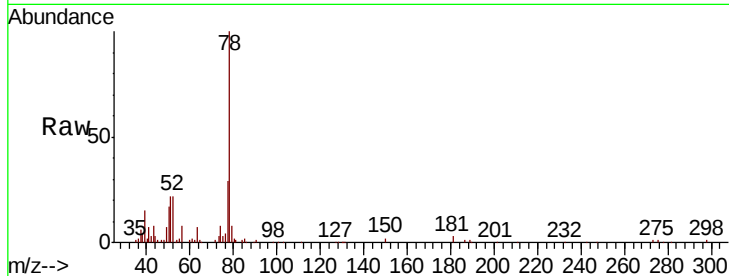
#36
Benzene
Concen: 0.412 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. 0.03 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-6(2021)

Tot Ion	Ratio	Lower	Upper
78	100		
77	28.9	18.0	27.0#
50	15.9	16.5	24.7#

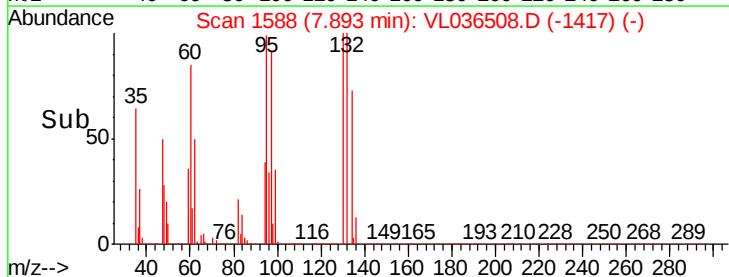
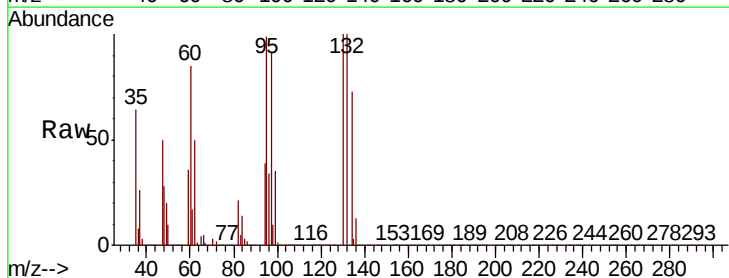
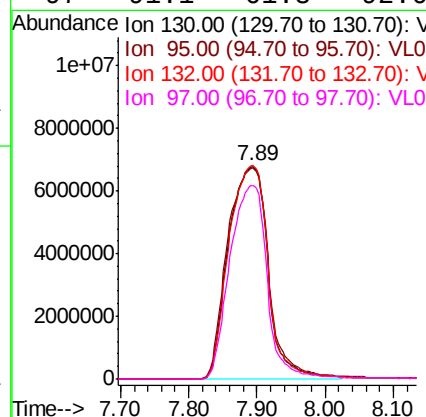
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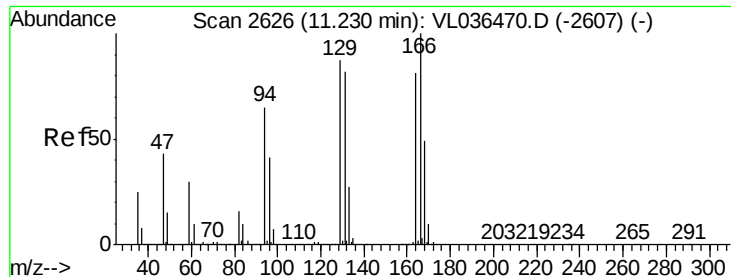
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#38
Trichloroethene
Concen: 202.810 ppbv
RT: 7.89 min Scan# 1588
Delta R.T. 0.05 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.3	95.7	143.5
132	100.4	76.2	114.4
97	91.1	61.8	92.6





#52

Tetrachloroethene

Concen: 8.278 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. 0.03 min

Lab File: VL036508.D

Acq: 26 Mar 2021 10:58

Instrument :

MSVOA_L

ClientSampleId :

GOI-SG-6(2021)

Tot Ion:164 Resp: 1057347

Ion Ratio Lower Upper

164 100

166 125.7 98.3 147.5

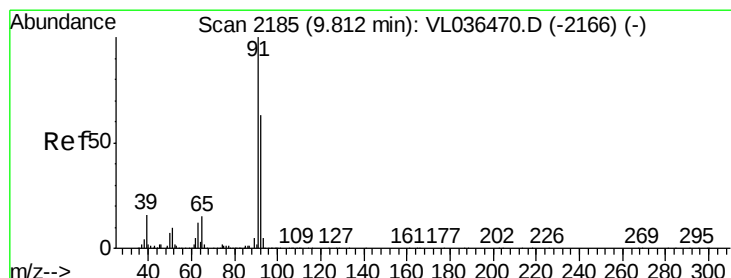
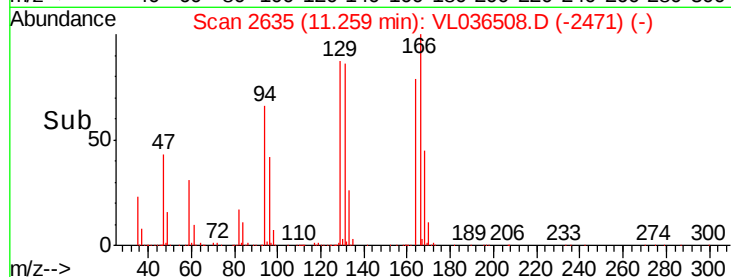
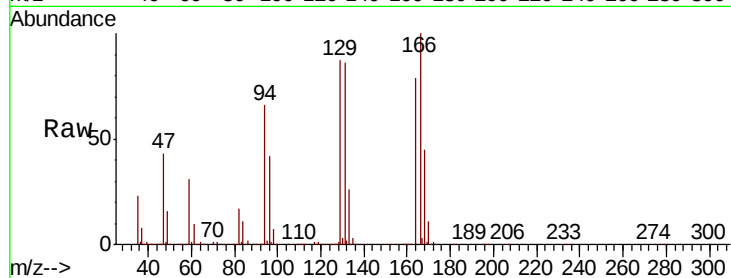
129 109.4 85.8 128.8

131 108.4 80.9 121.3

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#53

Toluene

Concen: 0.317 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. 0.03 min

Lab File: VL036508.D

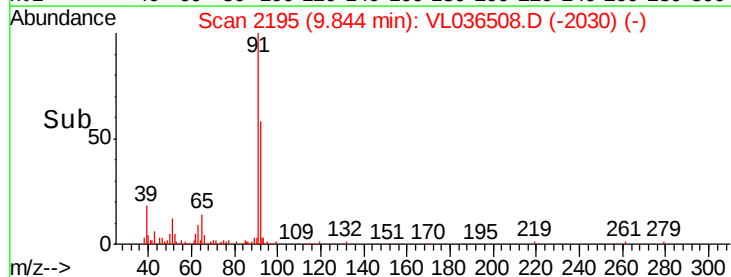
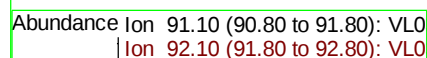
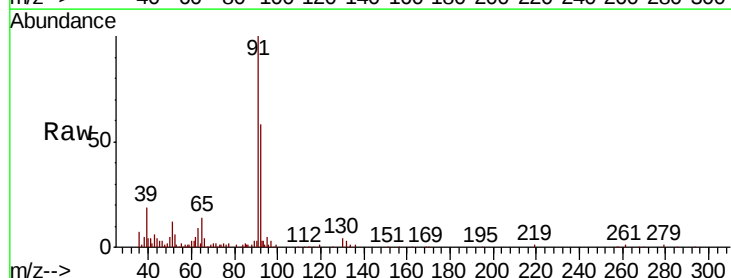
Acq: 26 Mar 2021 10:58

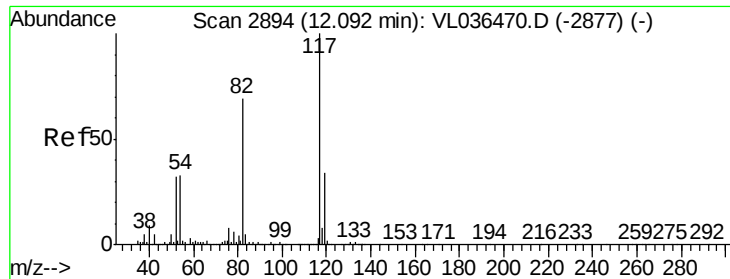
Tgt Ion: 91 Resp: 116935

Ion Ratio Lower Upper

91 100

92 61.3 48.8 73.2





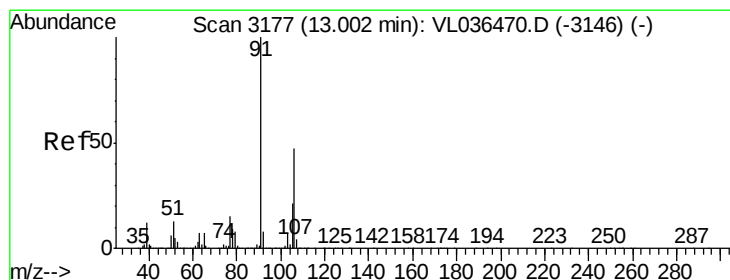
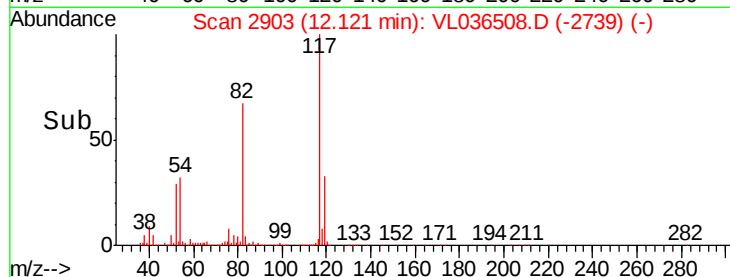
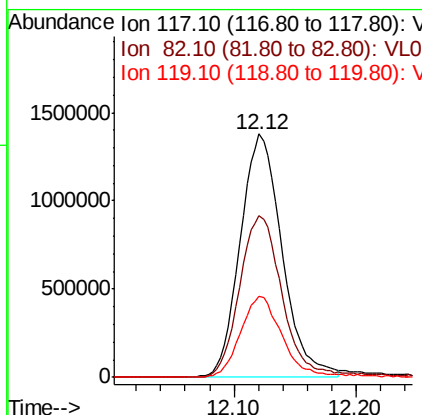
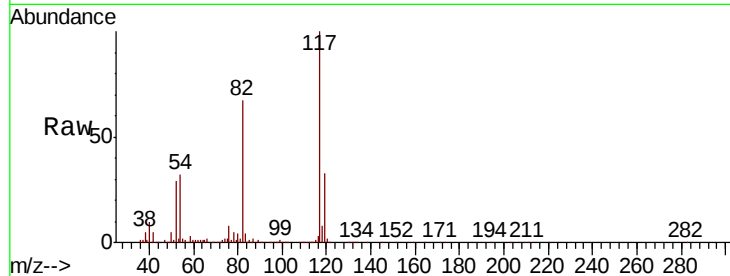
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.03 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-6(2021)

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.1	57.4	86.0
119	34.0	47.4	71.0#

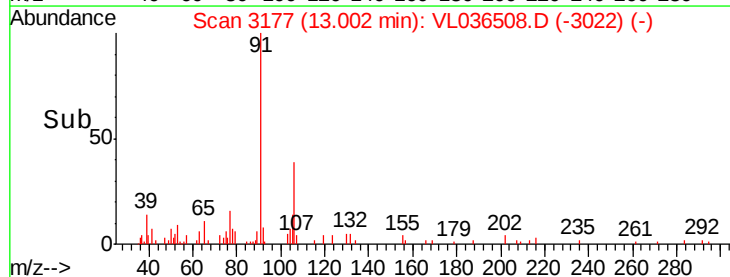
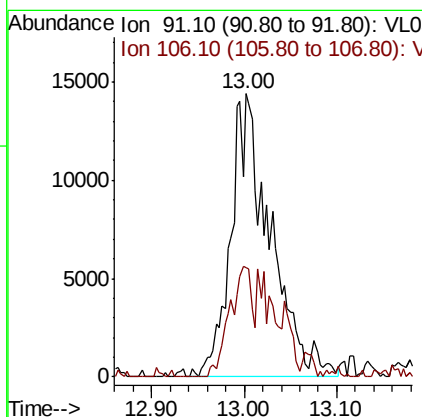
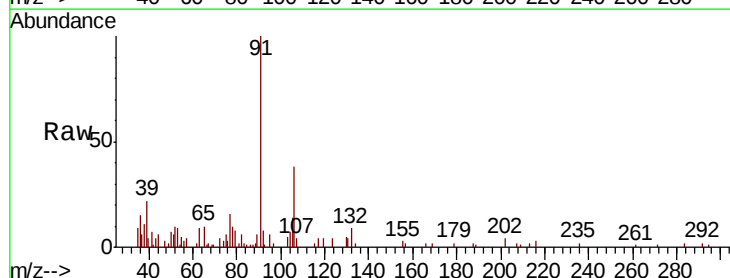
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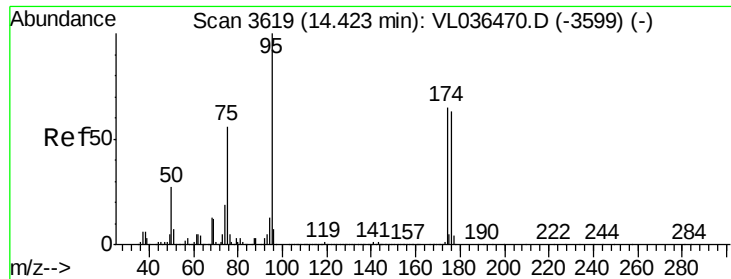
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#59
m/p-Xylene
Concen: 0.103 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.00 min
Lab File: VL036508.D
Acq: 26 Mar 2021 10:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.610 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. 0.03 min
 Lab File: VL036508.D
 Acq: 26 Mar 2021 10:58

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-SG-6(2021)

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.5	51.0	76.6
175	4.9	3.9	5.9

Manual Integrations
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