

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036507.D
 Acq On : 26 Mar 2021 10:13
 Operator : SY/AP
 Sample : M1748-37
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-SG-5(2021)

Manual Integrations
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Quant Time: Mar 27 03:50:32 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 03:50:32 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	1400766	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3256244	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	2846257	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.45	95	2267156	9.99	ppbv	0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	34916	0.153	ppbv #	84
3) Chlorodifluoromethane	3.00	51	78339	0.299	ppbv #	87
4) Chloromethane	3.16	50	18110m	0.196	ppbv	
9) Propene	3.03	41	81255	0.974	ppbv #	79
11) Trichlorofluoromethane	3.96	101	52513m	0.226	ppbv	
13) Ethanol	3.62	45	338988	34.119	ppbv	99
15) Acetone	3.87	43	892533	6.474	ppbv	92
17) tert-Butyl alcohol	4.32	59	16415m	0.137	ppbv	
19) Isopropyl Alcohol	4.00	45	47917	0.632	ppbv #	51
20) Methylene Chloride	4.36	84	419443	6.498	ppbv	95
26) Hexane	5.71	57	482396	3.171	ppbv #	47
34) 2-Butanone	5.28	43	72277m	0.455	ppbv	
35) Carbon Tetrachloride	7.04	117	16700m	0.067	ppbv	
36) Benzene	6.91	78	72421	0.241	ppbv #	92
38) Trichloroethene	7.84	130	4226m	0.036	ppbv	
52) Tetrachloroethene	11.25	164	7274m	0.066	ppbv	
53) Toluene	9.83	91	152484	0.477	ppbv	98
59) m/p-Xylene	13.00	91	118164m	0.327	ppbv	
60) o-Xylene	13.71	91	55655m	0.159	ppbv	
69) p-Isopropyltoluene	17.68	119	75037	0.167	ppbv #	88
70) n-Butylbenzene	18.59	91	62987m	0.135	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	79078m	0.207	ppbv	

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

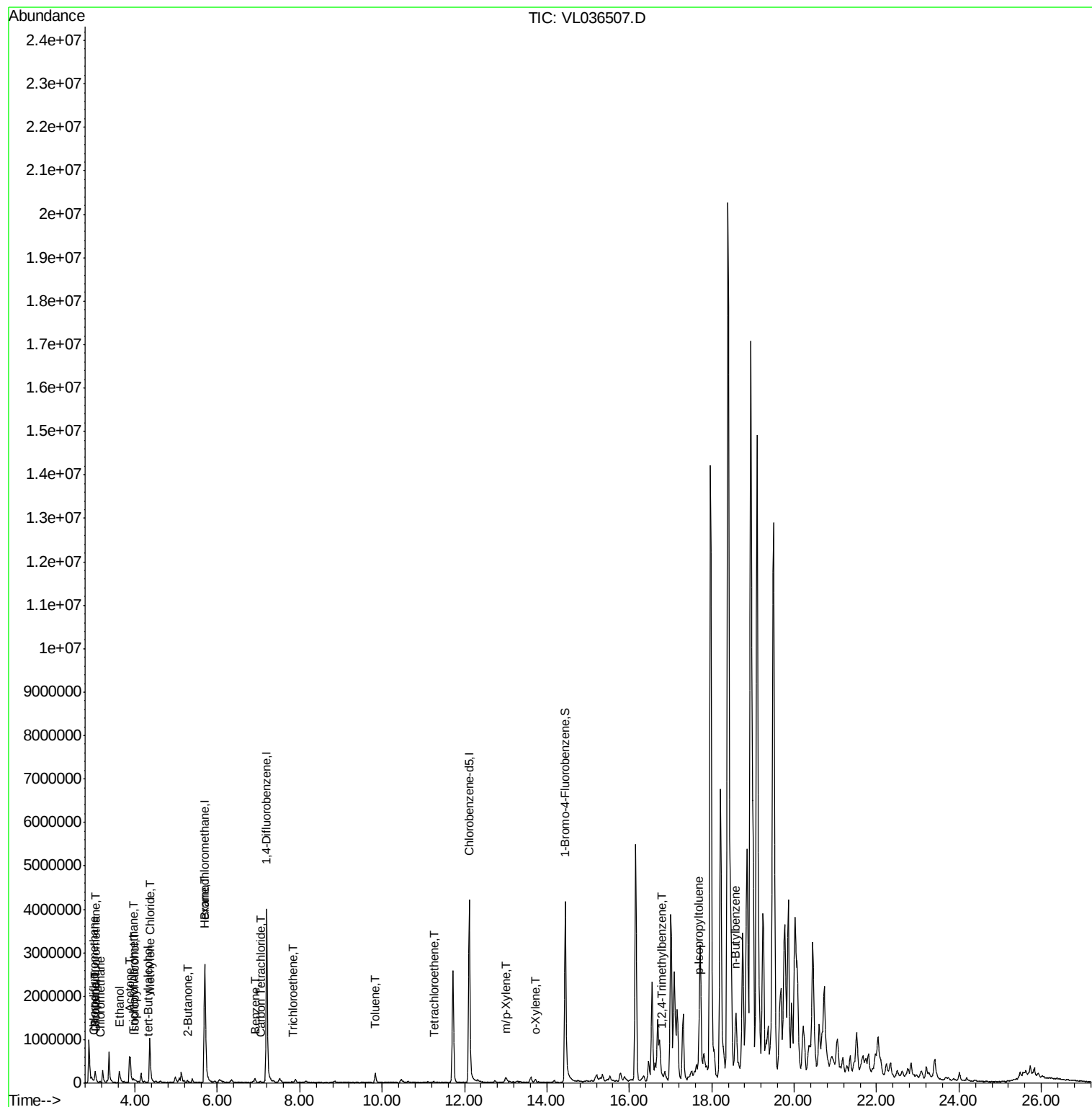
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036507.D
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Quant Time: Mar 27 03:50:32 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL036507.D

Acq: 26 Mar 2021 10:13

Instrument :

MSVOA_L

ClientSampleId :

GOI-SG-5(2021)

Tot Ion: 49 Resp: 1400766

Ion Ratio Lower Upper

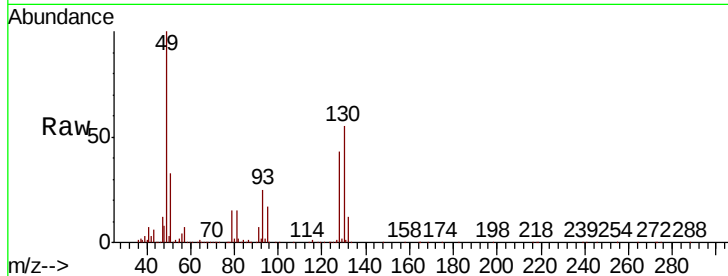
49 100

128 44.6 23.5 70.6

130 56.6 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

800000

600000

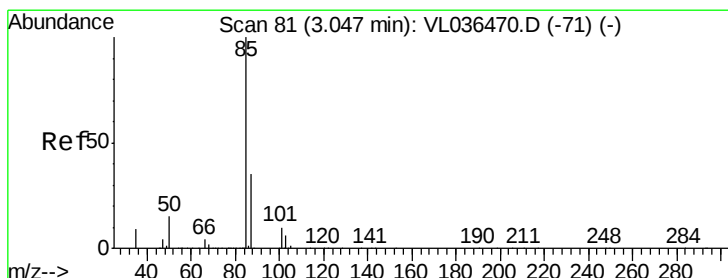
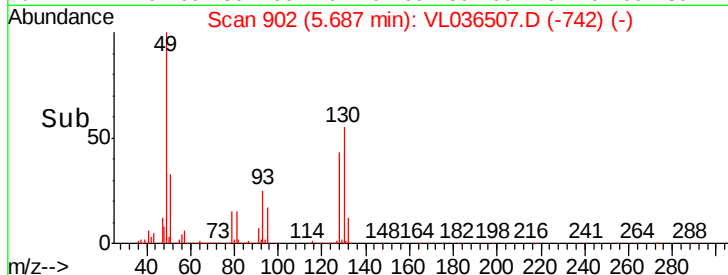
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.153 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL036507.D

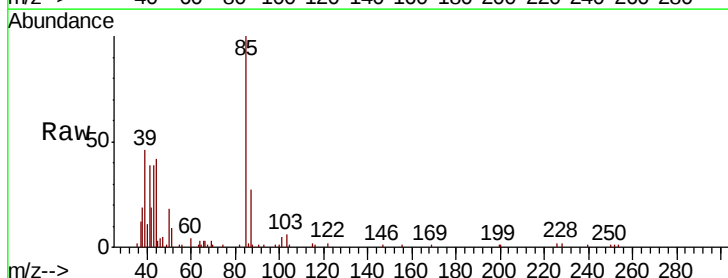
Acq: 26 Mar 2021 10:13

Tgt Ion: 85 Resp: 34916

Ion Ratio Lower Upper

85 100

87 25.6 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

25000

20000

15000

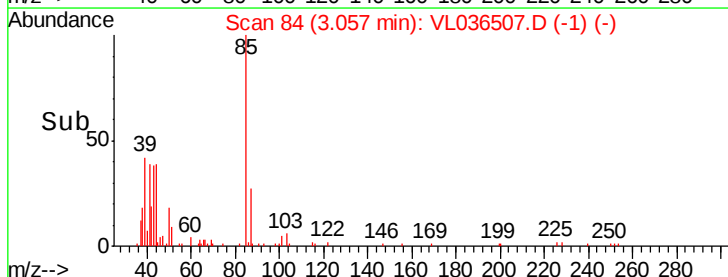
10000

5000

0

3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 0.299 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL036507.D

Acq: 26 Mar 2021 10:13

Instrument :

MSVOA_L

ClientSampleId :

GOI-SG-5(2021)

Tot Ion: 51 Resp: 78339

Ion Ratio Lower Upper

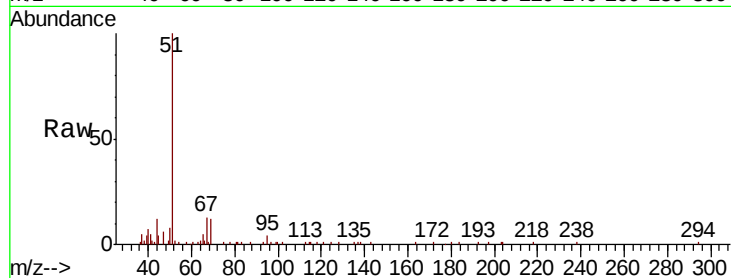
51 100

67 12.5 14.7 22.1#

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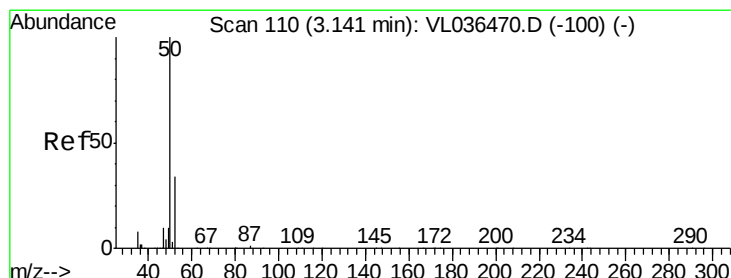
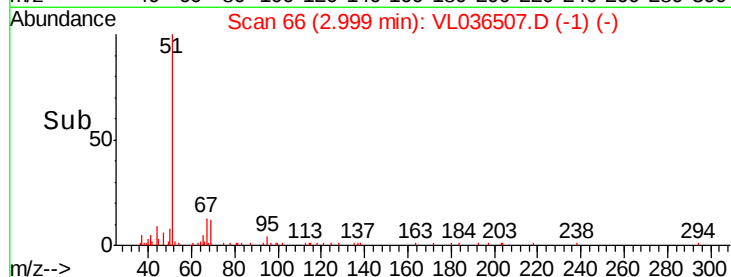
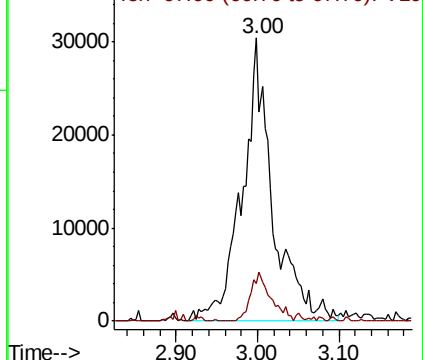
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.196 ppbv m

RT: 3.16 min Scan# 116

Delta R.T. 0.02 min

Lab File: VL036507.D

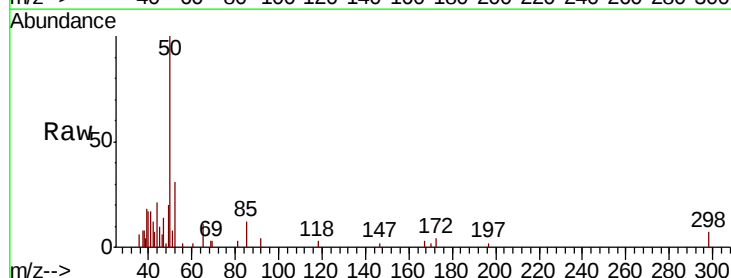
Acq: 26 Mar 2021 10:13

Tgt Ion: 50 Resp: 18110

Ion Ratio Lower Upper

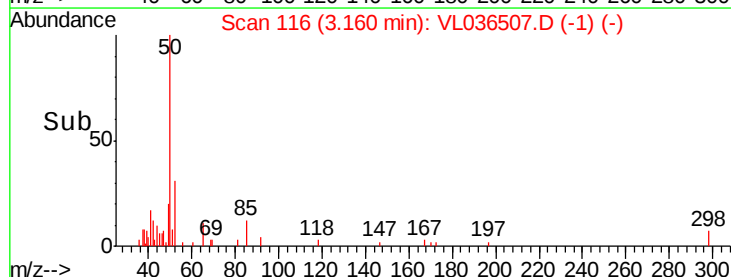
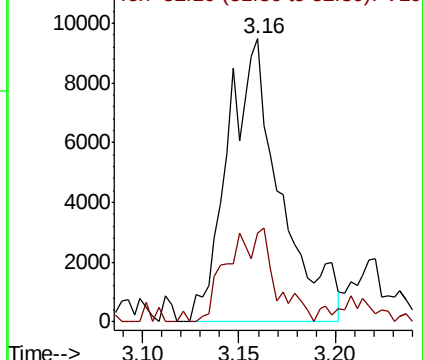
50 100

52 31.3 27.0 40.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





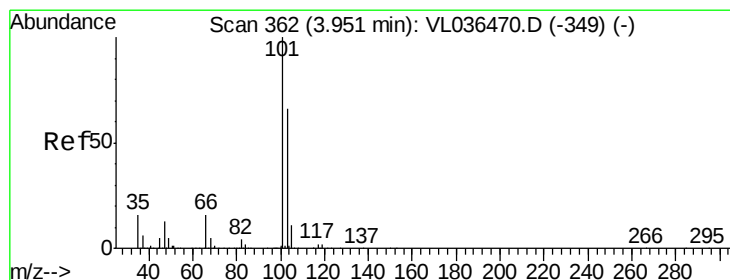
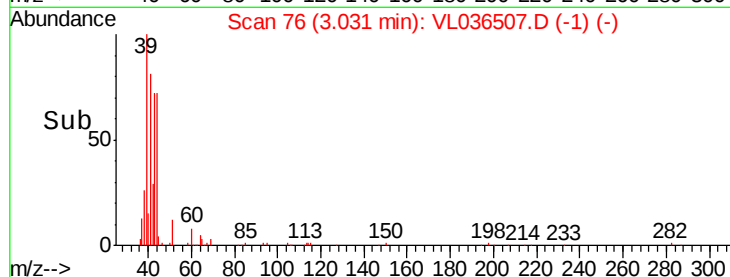
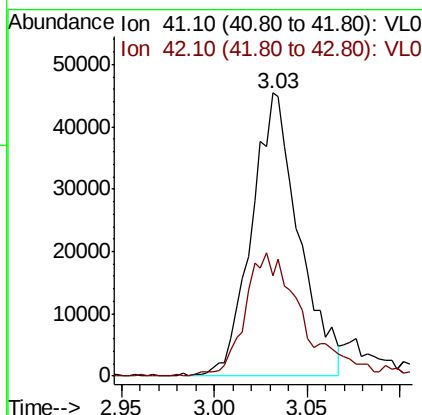
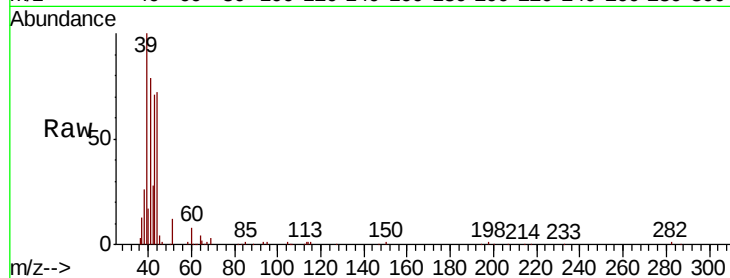
#9
 Propene
 Concen: 0.974 ppbv
 RT: 3.03 min Scan# 76
 Delta R.T. 0.02 min
 Lab File: VL036507.D
 Acq: 26 Mar 2021 10:13

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-SG-5(2021)

Tot Ion	Ratio	Lower	Upper
41	100		
42	53.6	57.0	85.4#

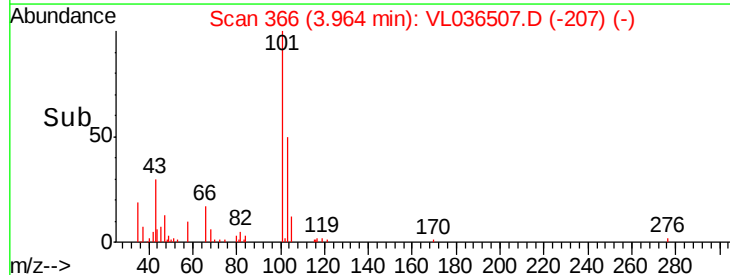
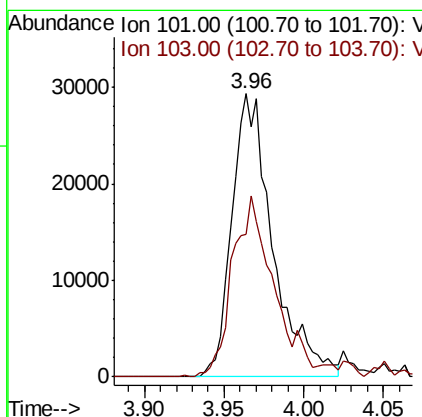
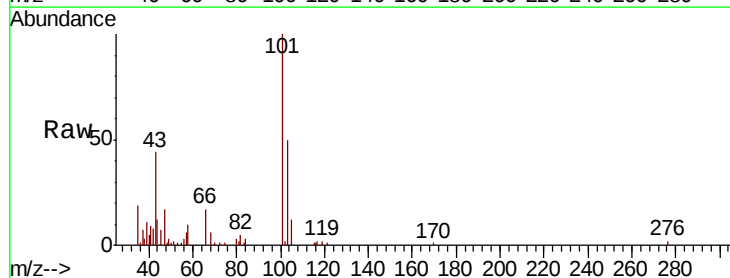
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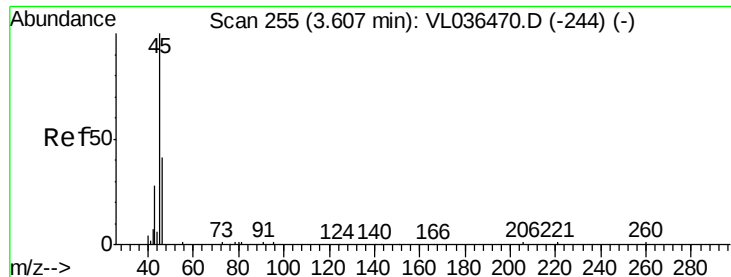
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#11
 Trichlorofluoromethane
 Concen: 0.226 ppbv m
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL036507.D
 Acq: 26 Mar 2021 10:13

Tgt Ion	Ratio	Lower	Upper
101	100		
103	50.4	52.5	78.7#





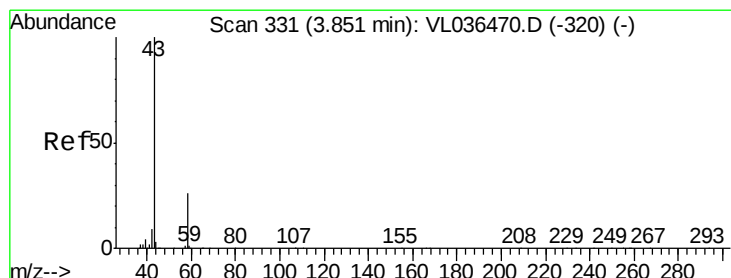
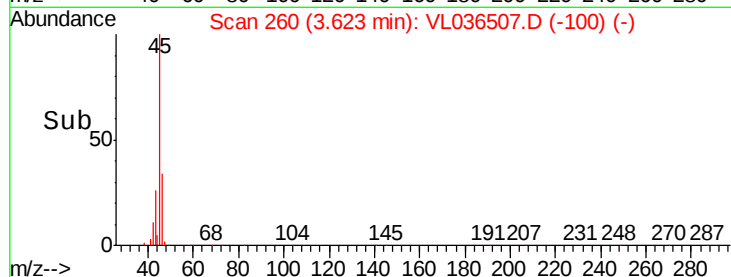
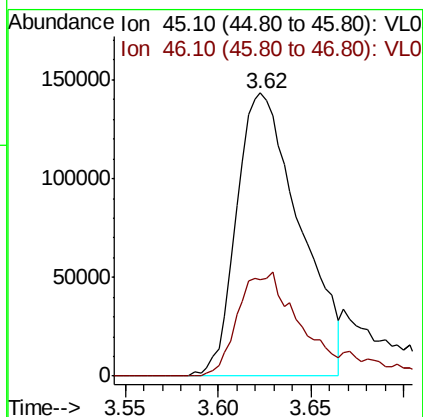
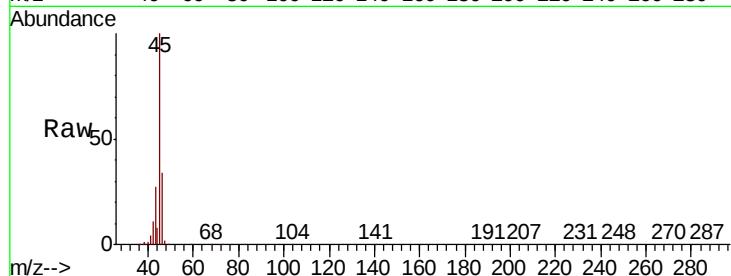
#13
Ethanol
Concen: 34.119 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-5(2021)

Tot Ion: 45 Resp: 338988
Ion Ratio Lower Upper
45 100
46 40.9 16.6 66.2

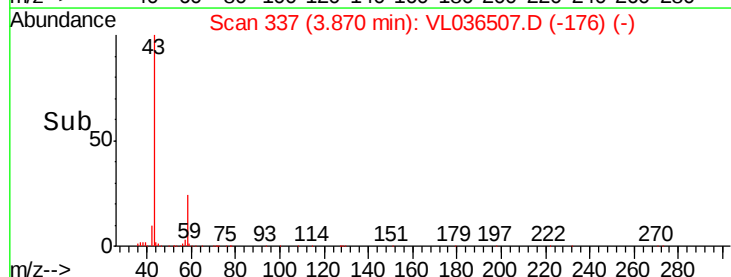
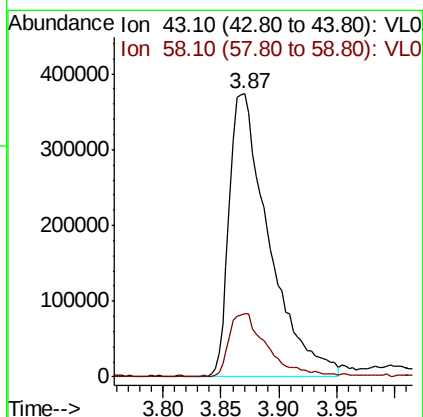
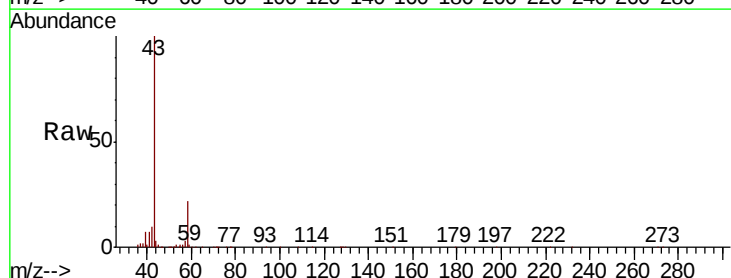
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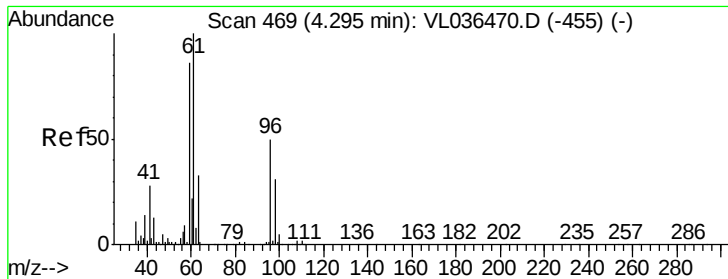
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#15
Acetone
Concen: 6.474 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Tgt Ion: 43 Resp: 892533
Ion Ratio Lower Upper
43 100
58 22.5 21.2 31.8





#17

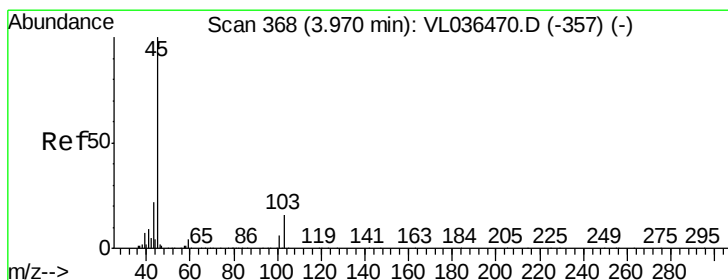
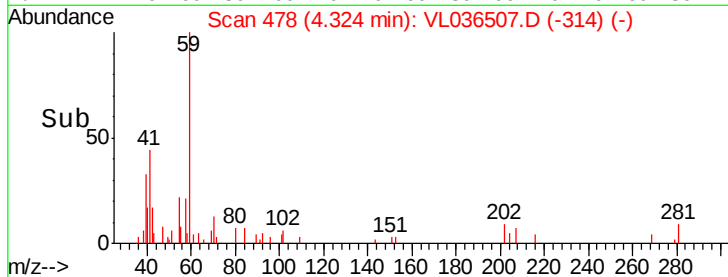
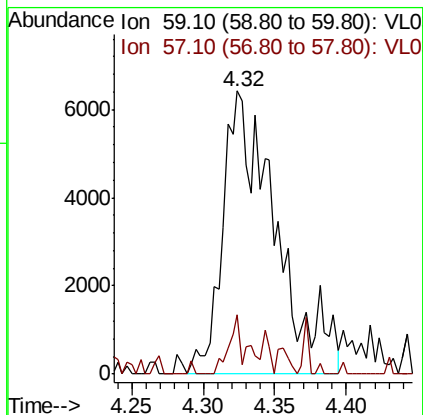
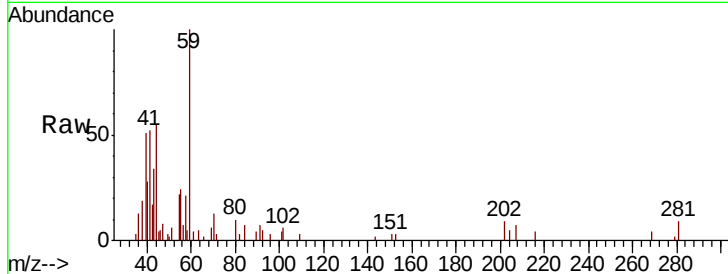
tert-Butyl alcohol
Concen: 0.137 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.03 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-5(2021)

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	12.8#

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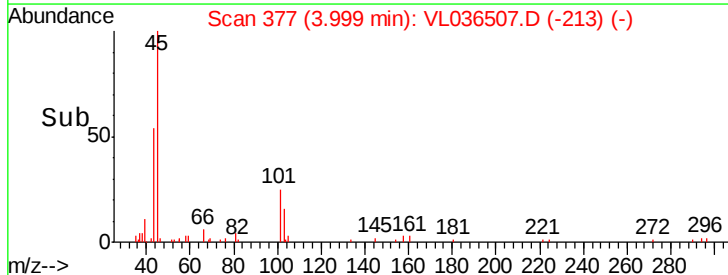
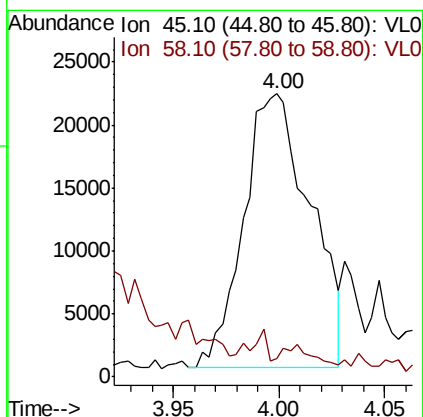
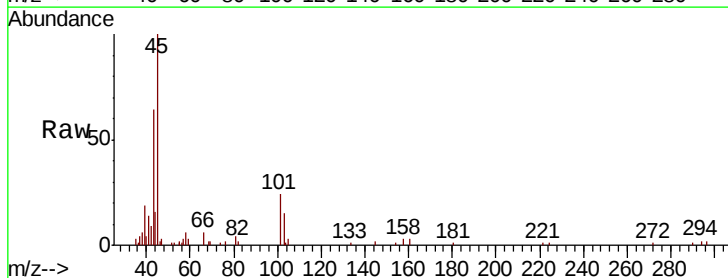
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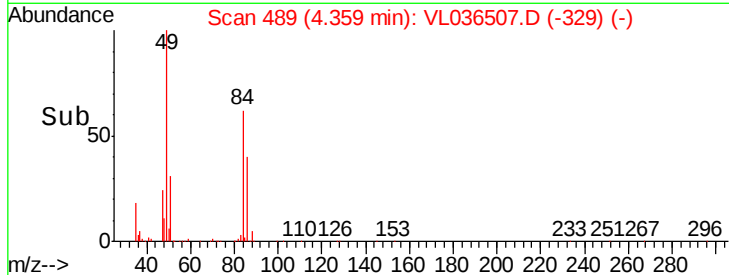
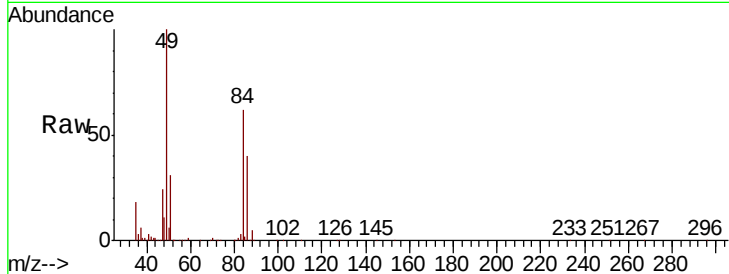
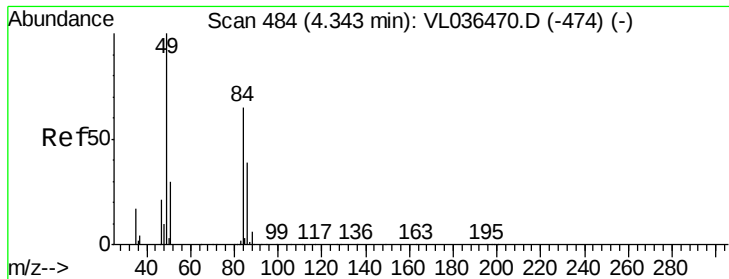


#19

Isopropyl Alcohol
Concen: 0.632 ppbv
RT: 4.00 min Scan# 377
Delta R.T. 0.03 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

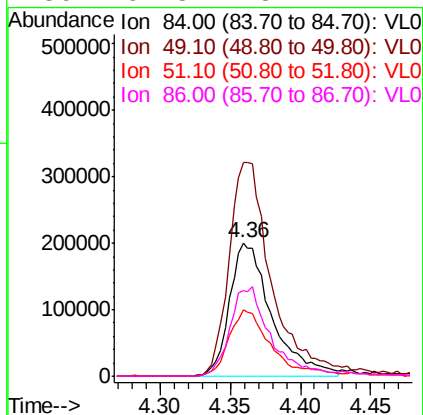
Tgt Ion	Ratio	Lower	Upper
45	100		
58	19.6	2.9	4.3#





#20
Methvlene Chloride
Concen: 6.498 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.02 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

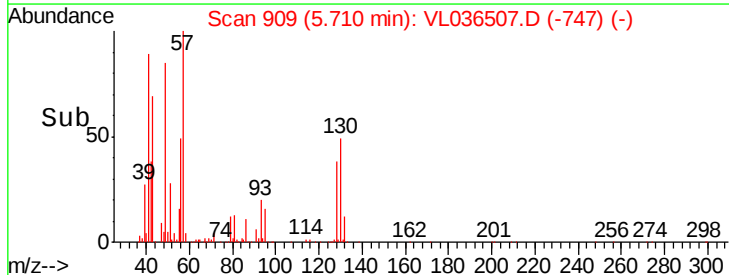
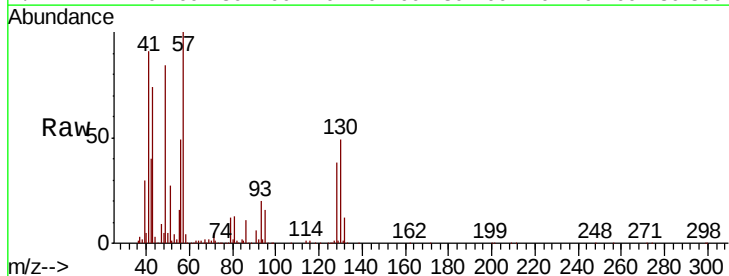
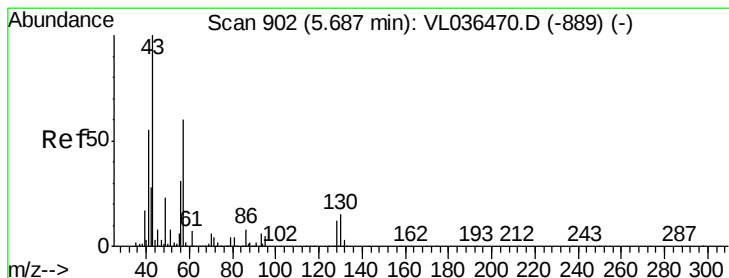
Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	160.1	122.9	184.3	
51	49.5	36.9	55.3	
86	64.8	48.2	72.4	



Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-5(2021)

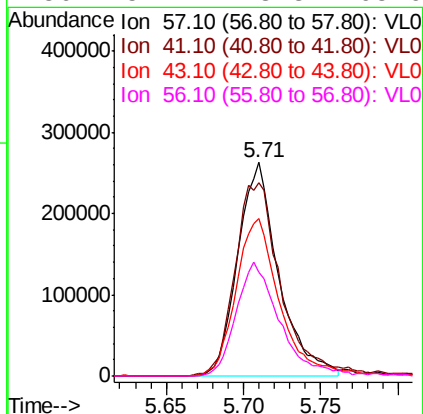
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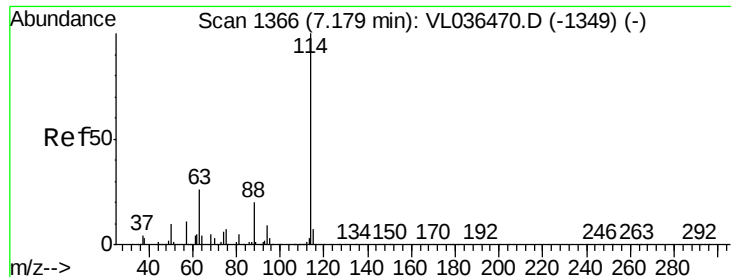
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#26
Hexane
Concen: 3.171 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.02 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	103.0	77.2	115.8	
43	80.0	173.8	260.6#	
56	57.7	43.8	65.6	





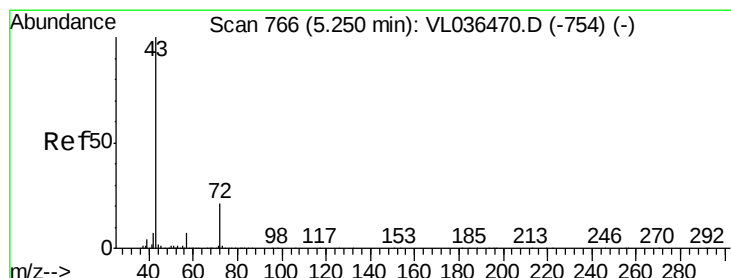
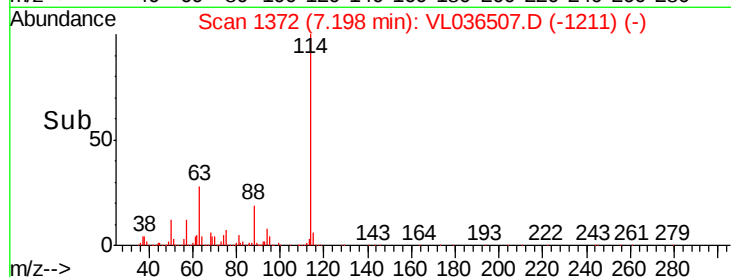
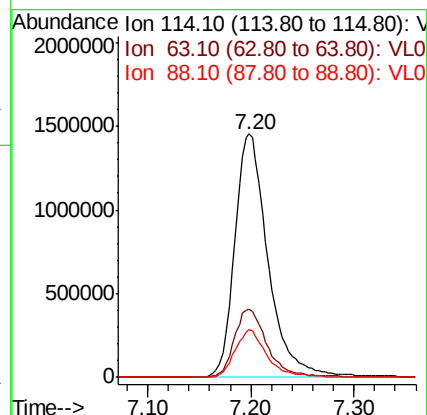
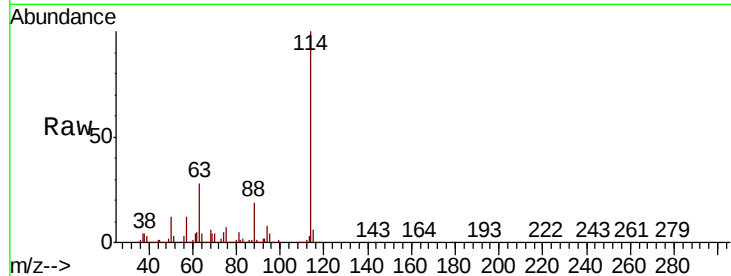
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. 0.02 min
 Lab File: VL036507.D
 Acq: 26 Mar 2021 10:13

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-SG-5(2021)

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	18.9	15.4	23.0

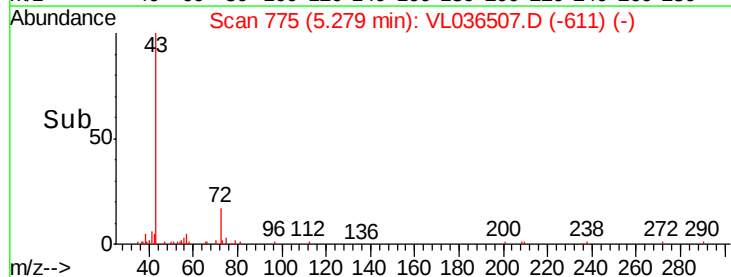
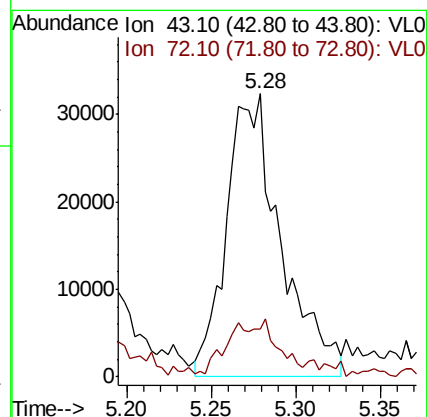
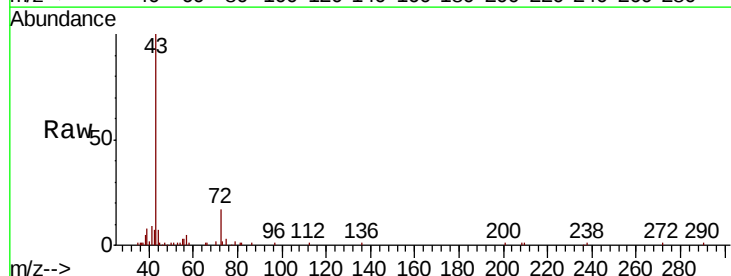
Manual Integrations
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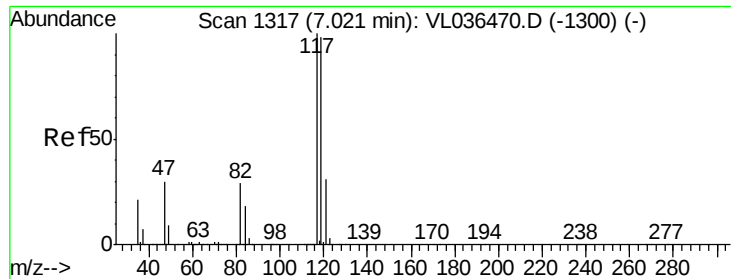
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#34
 2-Butanone
 Concen: 0.455 ppbv m
 RT: 5.28 min Scan# 775
 Delta R.T. 0.03 min
 Lab File: VL036507.D
 Acq: 26 Mar 2021 10:13

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.0	25.6#





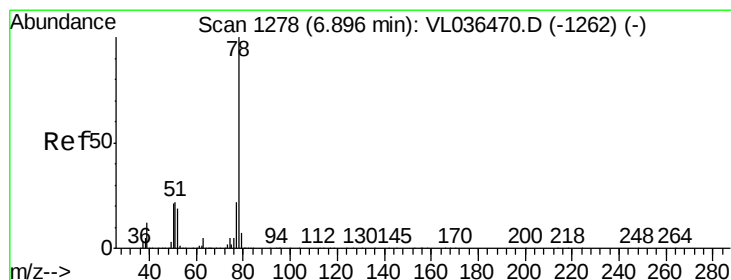
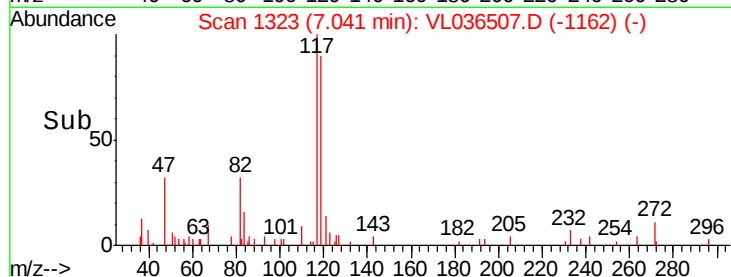
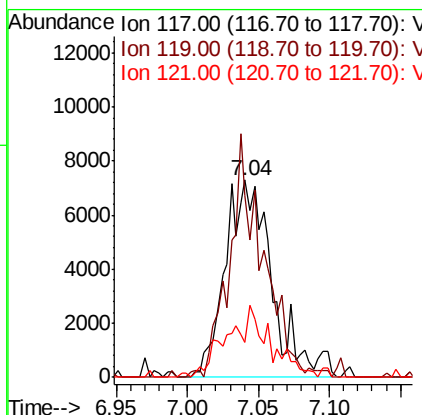
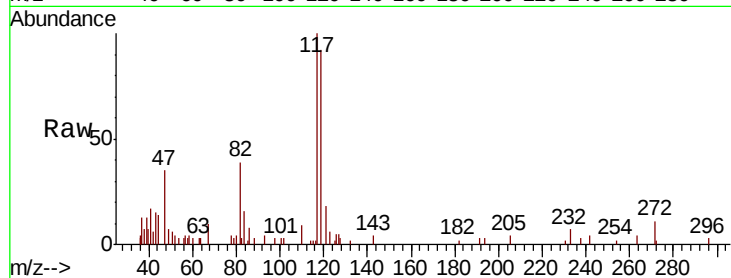
#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 7.04 min Scan# 1323
Delta R.T. 0.02 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-5(2021)

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.5	78.2	117.2
121	18.0	24.5	36.7#

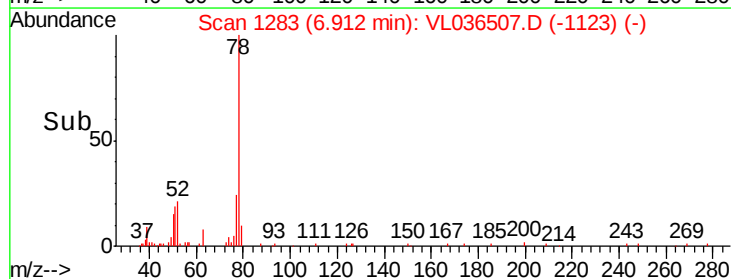
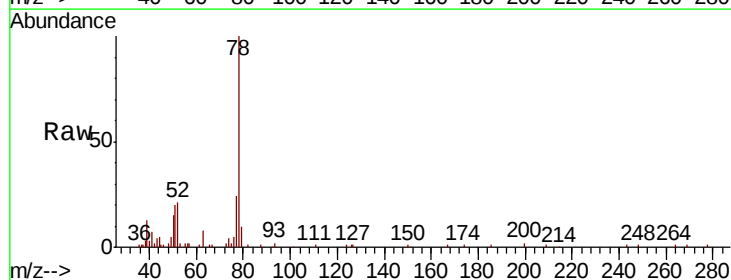
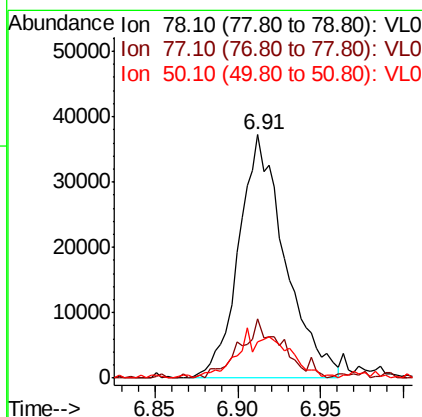
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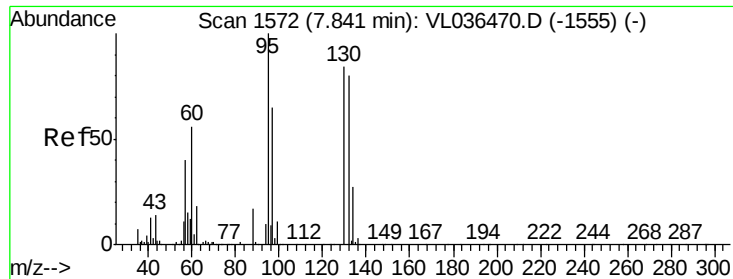
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#36
Benzene
Concen: 0.241 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.02 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.0	27.0
50	14.9	16.5	24.7#





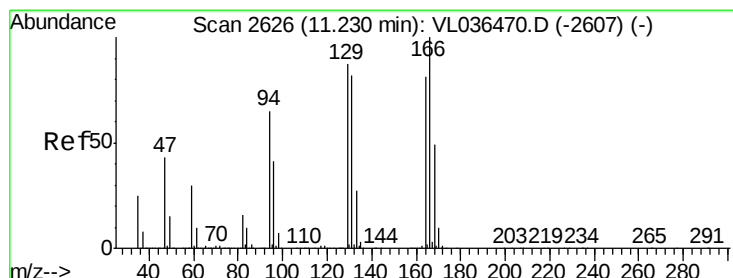
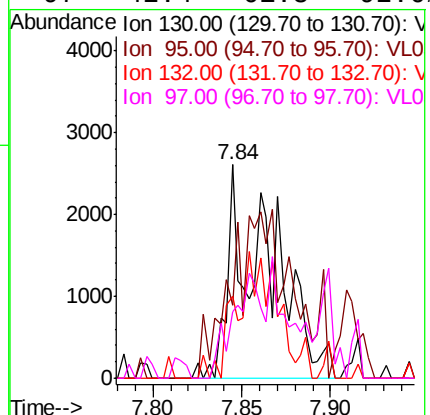
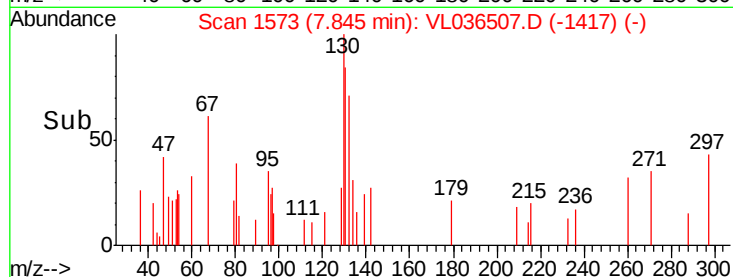
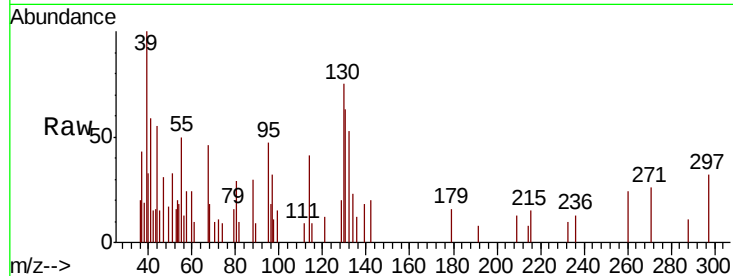
#38
 Trichloroethene
 Concen: 0.036 ppbv m
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VL036507.D
 Acq: 26 Mar 2021 10:13

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-SG-5(2021)

Tot Ion:	130	Resp:	4226
Ion Ratio	Lower	Upper	
130	100		
95	62.5	95.7	143.5#
132	70.7	76.2	114.4#
97	42.4	61.8	92.6#

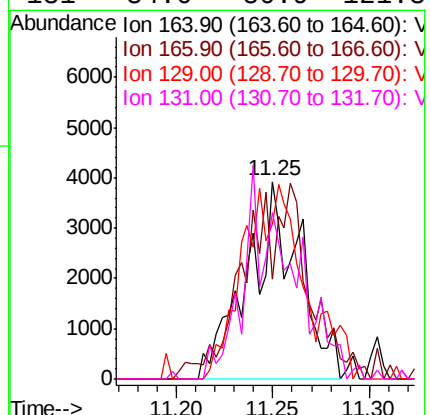
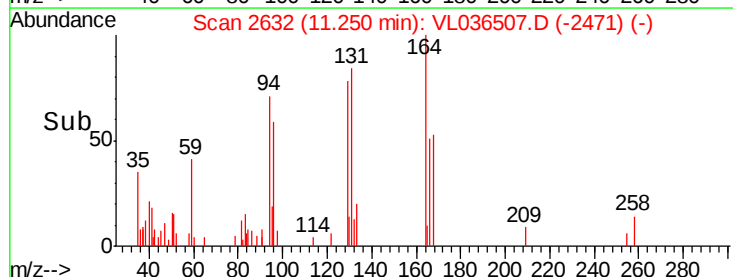
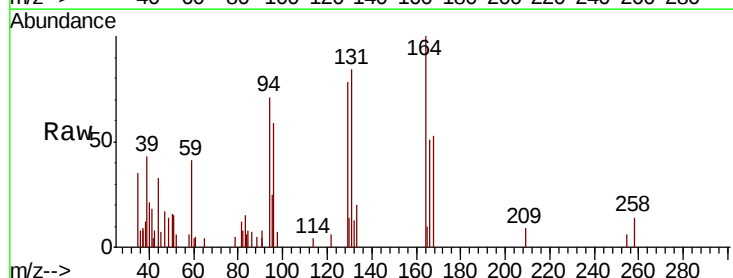
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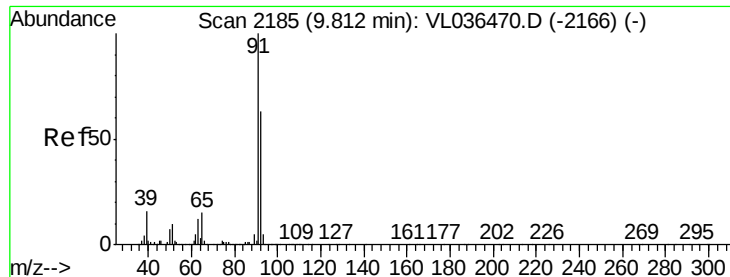
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#52
 Tetrachloroethene
 Concen: 0.066 ppbv m
 RT: 11.25 min Scan# 2632
 Delta R.T. 0.02 min
 Lab File: VL036507.D
 Acq: 26 Mar 2021 10:13

Tgt Ion:	164	Resp:	7274
Ion Ratio	Lower	Upper	
164	100		
166	50.6	98.3	147.5#
129	78.4	85.8	128.8#
131	84.0	80.9	121.3





#53

Toluene

Concen: 0.477 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.02 min

Lab File: VL036507.D

Acq: 26 Mar 2021 10:13

Instrument :

MSVOA_L

ClientSampleId :

GOI-SG-5(2021)

Tot Ion: 91 Resp: 152484

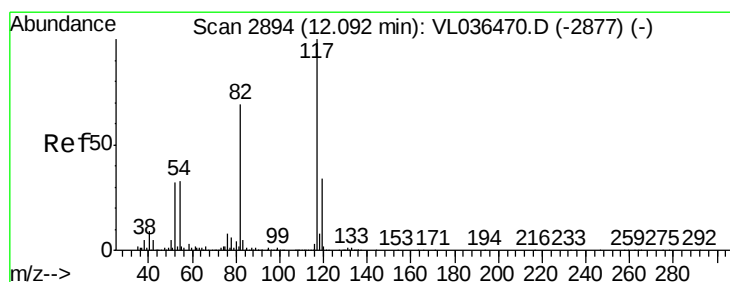
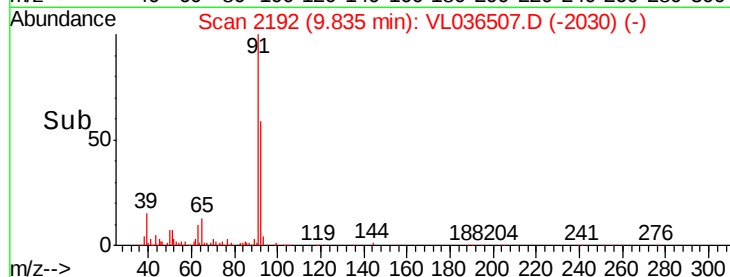
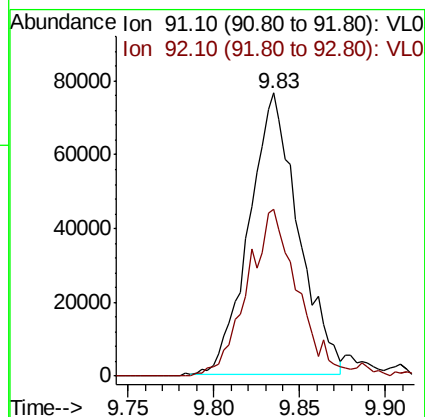
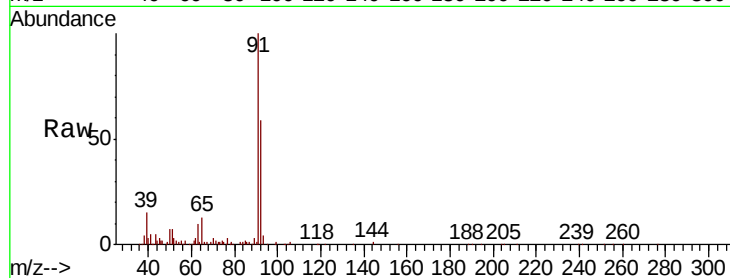
Ion Ratio Lower Upper

91 100

92 62.6 48.8 73.2

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.02 min

Lab File: VL036507.D

Acq: 26 Mar 2021 10:13

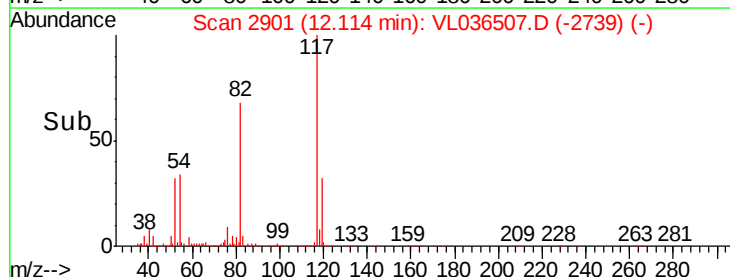
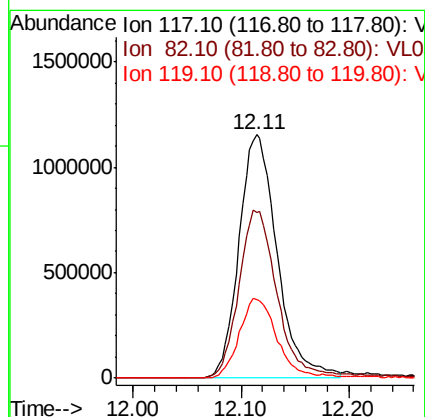
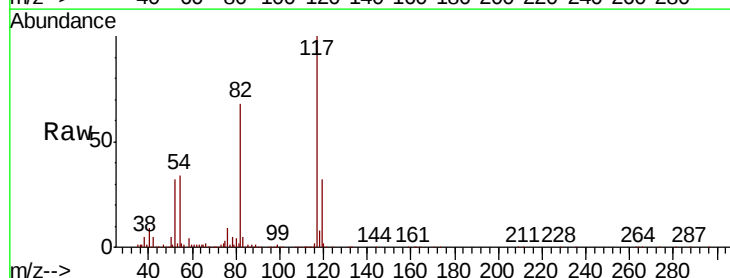
Tgt Ion: 117 Resp: 2846257

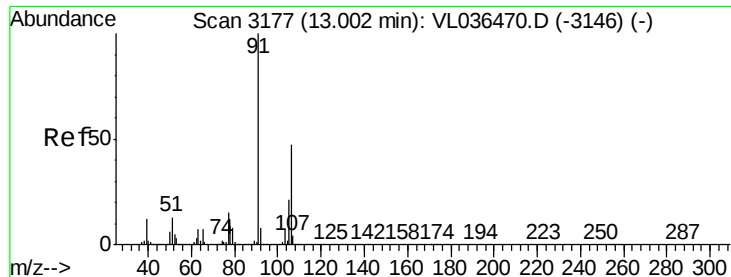
Ion Ratio Lower Upper

117 100

82 70.8 57.4 86.0

119 33.1 47.4 71.0#





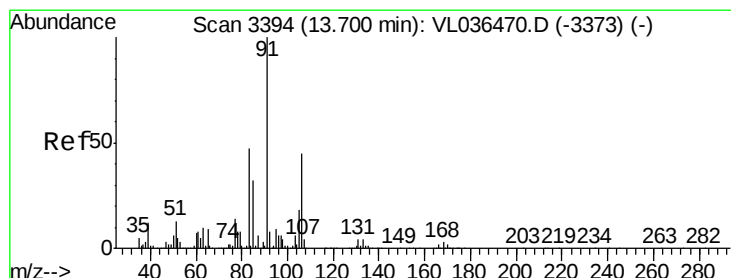
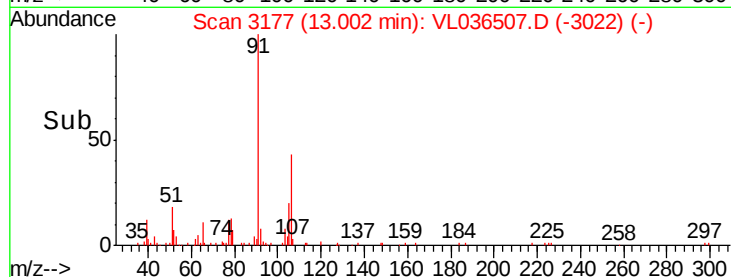
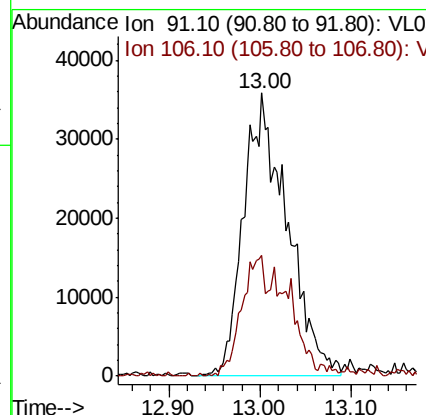
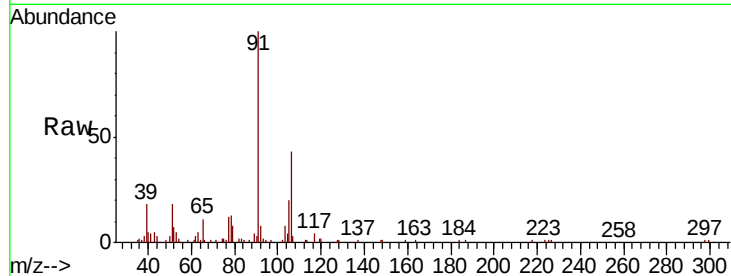
#59
m/p-Xylene
Concen: 0.327 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.00 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-5(2021)

Tot Ion: 91 Resp: 118164
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

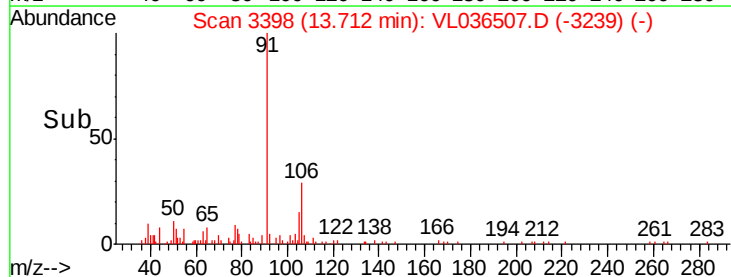
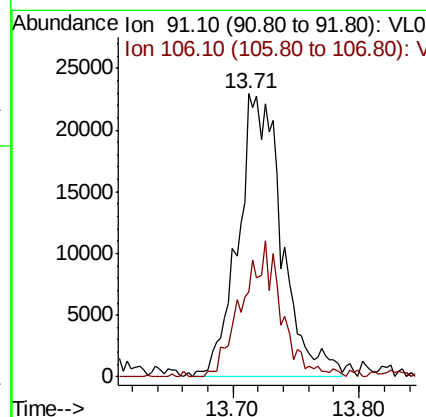
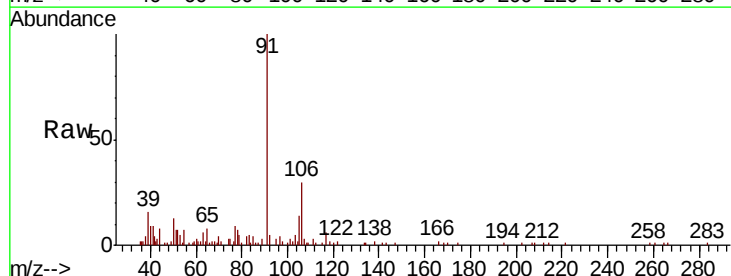
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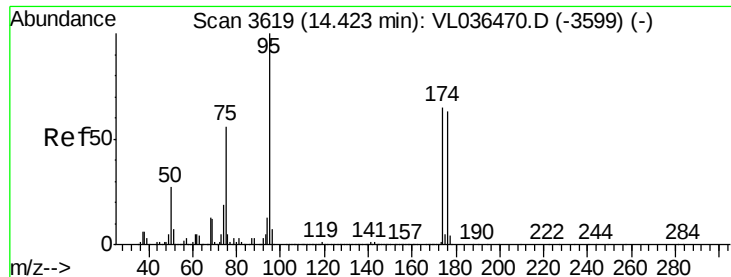
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#60
o-Xylene
Concen: 0.159 ppbv m
RT: 13.71 min Scan# 3398
Delta R.T. 0.01 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Tgt Ion: 91 Resp: 55655
Ion Ratio Lower Upper
91 100
106 43.0 22.3 66.9





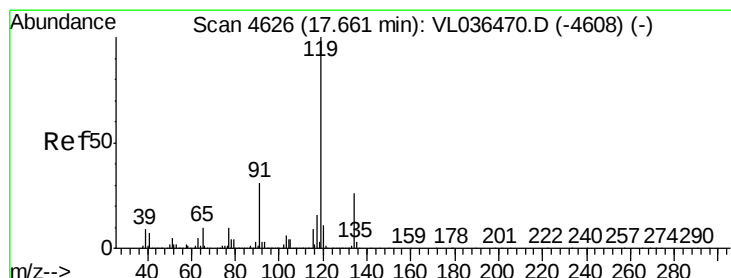
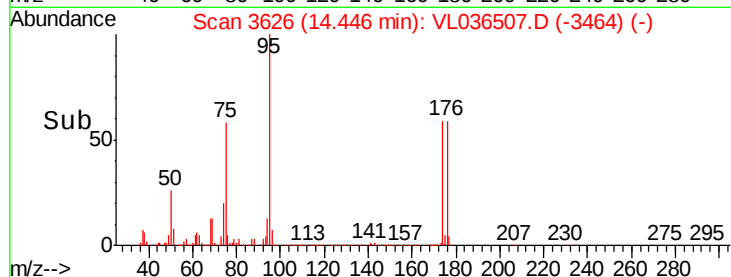
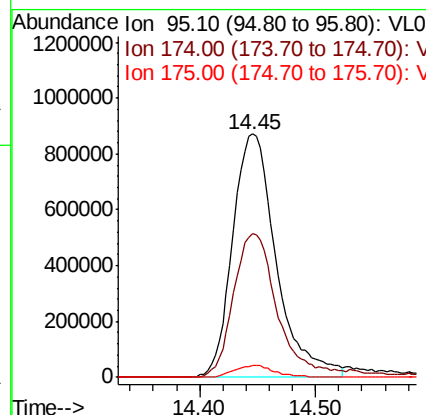
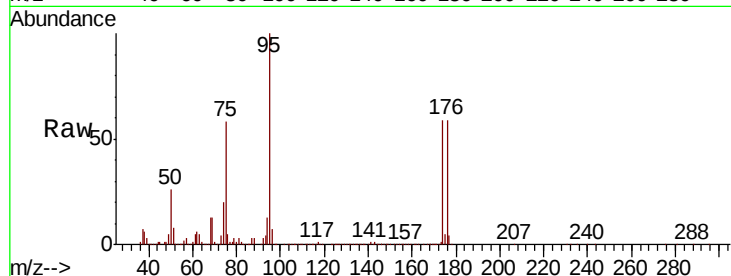
#68
1-Bromo-4-Fluorobenzene
Concen: 9.994 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. 0.02 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-5(2021)

Tot Ion	Ratio	Lower	Upper
95	100		
174	63.5	51.0	76.6
175	4.8	3.9	5.9

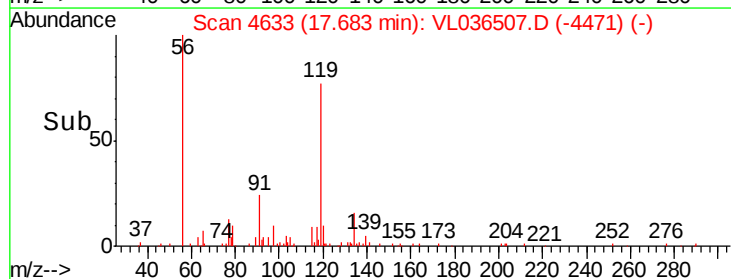
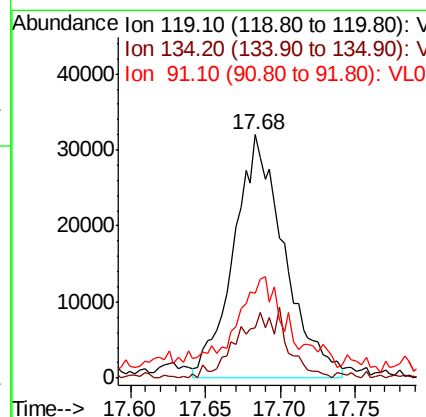
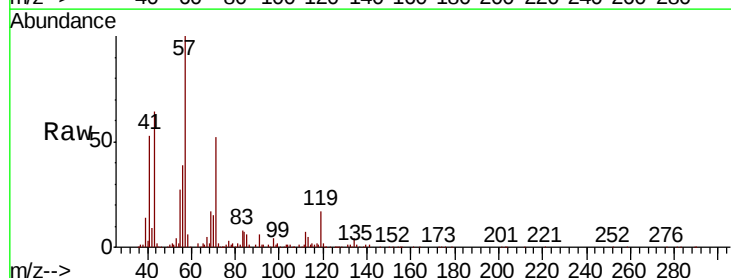
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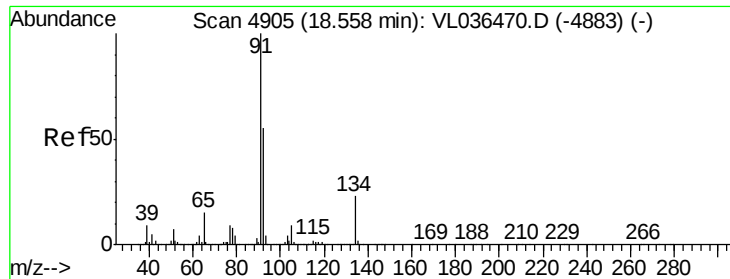
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#69
p-Isopropyltoluene
Concen: 0.167 ppbv
RT: 17.68 min Scan# 4633
Delta R.T. 0.02 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.8	20.6	30.8
91	41.1	25.0	37.6





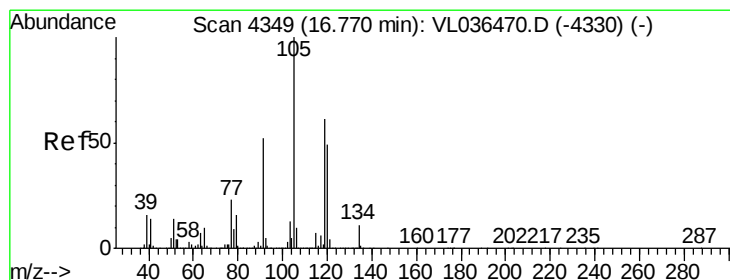
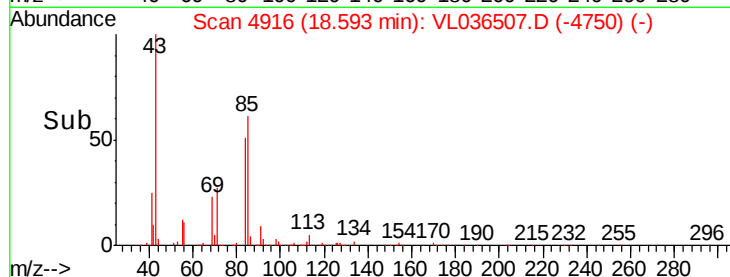
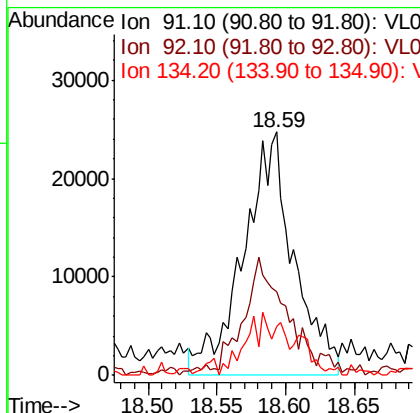
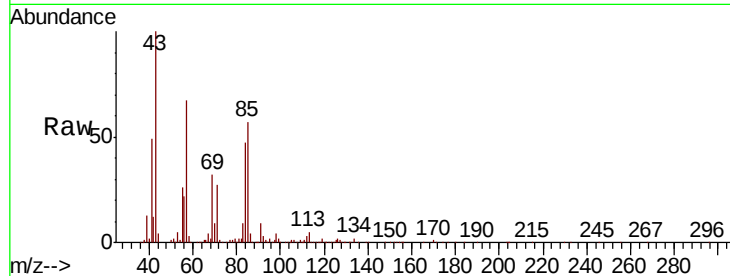
#70
n-Butylbenzene
Concen: 0.135 ppbv m
RT: 18.59 min Scan# 4916
Delta R.T. 0.04 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Instrument :
MSVOA_L
ClientSampleId :
GOI-SG-5(2021)

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.8	65.8#
134	0.0	18.0	27.0#

Manual Integrations
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#74
1,2,4-Trimethylbenzene
Concen: 0.207 ppbv m
RT: 16.80 min Scan# 4357
Delta R.T. 0.03 min
Lab File: VL036507.D
Acq: 26 Mar 2021 10:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.2	39.2	58.8
91	11.0	42.6	64.0#
77	17.0	18.6	28.0#

