

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036565.D
 Acq On : 30 Mar 2021 11:38
 Operator : SY/AP
 Sample : M1868-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

MMDadoda
 4/1/2021 10:57:57 AM

Quant Time: Mar 31 16:20:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 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	5.64	49	1392408	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3060101	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	2688358	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2229479	10.41	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	56049	0.247	ppbv	95
3) Chlorodifluoromethane	2.97	51	45755m	0.176	ppbv	
4) Chloromethane	3.12	50	45543	0.496	ppbv	96
9) Propene	3.00	41	59270	0.715	ppbv	83
11) Trichlorofluoromethane	3.93	101	46296	0.200	ppbv	93
13) Ethanol	3.59	45	404196m	40.926	ppbv	
15) Acetone	3.83	43	1165427m	8.504	ppbv	
19) Isopropyl Alcohol	3.96	45	142490m	1.890	ppbv	
20) Methylene Chloride	4.32	84	528597	8.238	ppbv	94
26) Hexane	5.66	57	568467	3.760	ppbv #	47
34) 2-Butanone	5.22	43	77732	0.520	ppbv #	87
35) Carbon Tetrachloride	6.98	117	14799m	0.063	ppbv	
36) Benzene	6.86	78	45881m	0.163	ppbv	
53) Toluene	9.77	91	188588	0.627	ppbv	100
58) Ethyl Benzene	12.68	91	74448m	0.190	ppbv	
59) m/p-Xylene	12.94	91	108635m	0.318	ppbv	
60) o-Xylene	13.66	91	49664m	0.151	ppbv	
61) Styrene	13.50	104	38990	0.235	ppbv #	91
74) 1,2,4-Trimethylbenzene	16.74	105	38507m	0.107	ppbv	

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

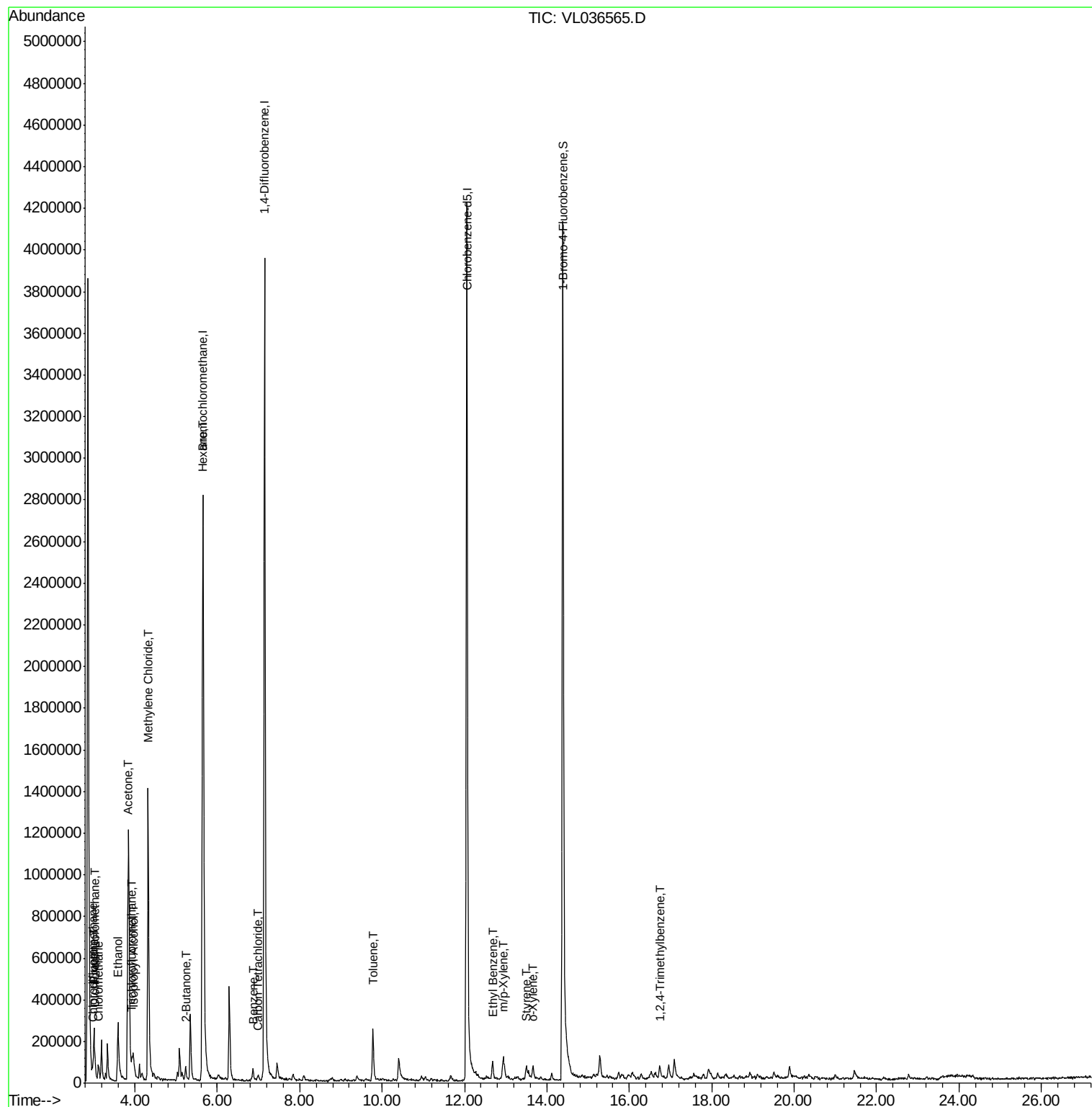
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033021\
Data File : VL036565.D
Acq On : 30 Mar 2021 11:38
Operator : SY/AP
Sample : M1868-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

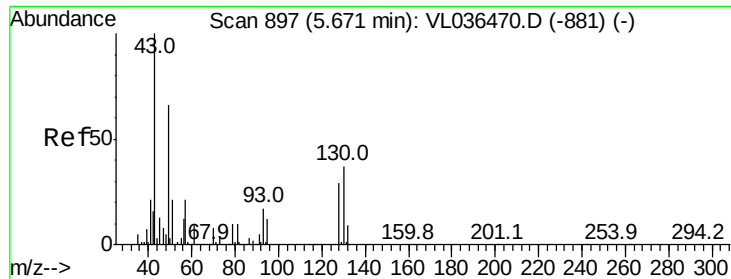
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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4/1/2021 10:57:57 AM

Quant Time: Mar 31 16:20:10 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: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL036565.D

Acq: 30 Mar 2021 11:38

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 49 Resp: 1392408

Ion Ratio Lower Upper

49 100

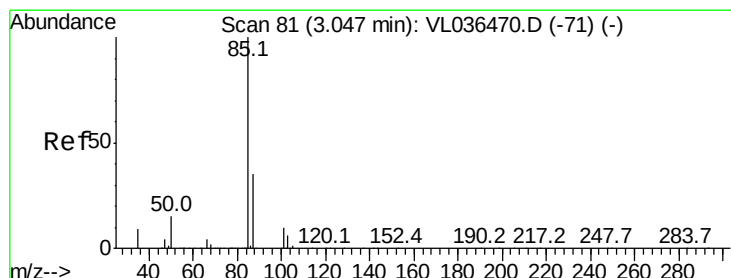
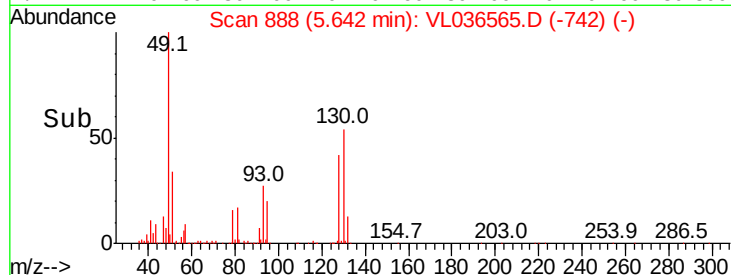
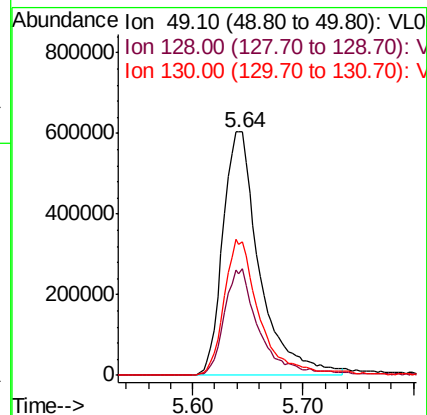
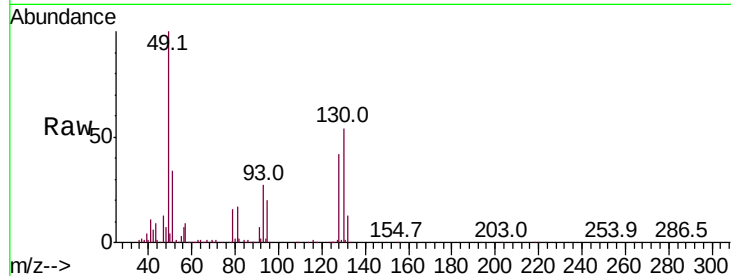
128 42.6 23.5 70.6

130 55.0 29.1 87.4

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.247 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036565.D

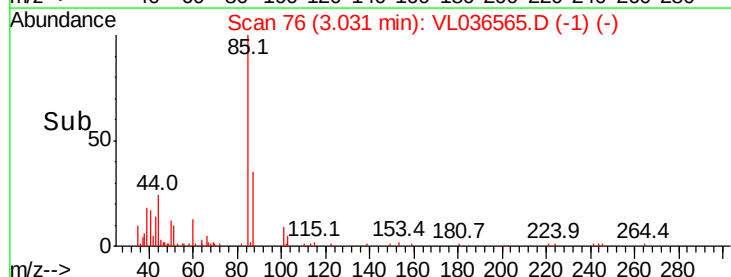
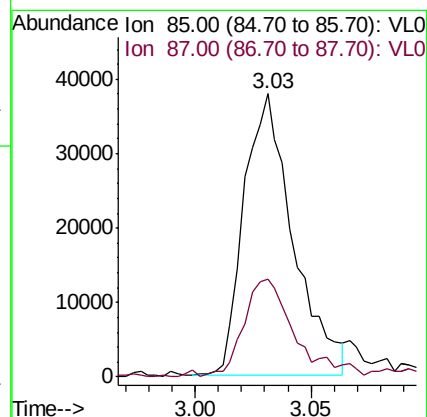
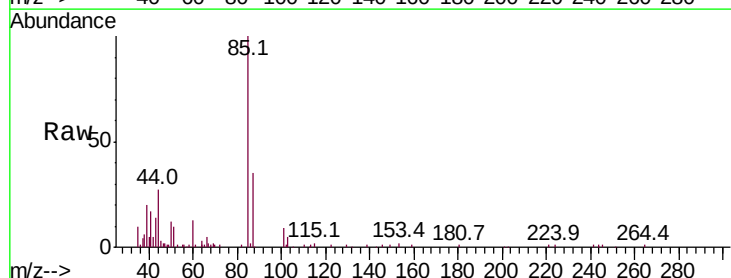
Acq: 30 Mar 2021 11:38

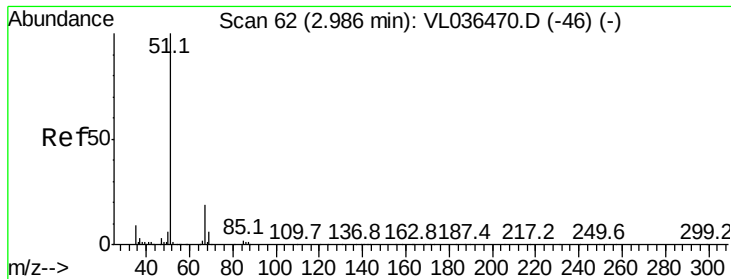
Tgt Ion: 85 Resp: 56049

Ion Ratio Lower Upper

85 100

87 32.1 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.176 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL036565.D

Acq: 30 Mar 2021 11:38

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 51 Resp: 45755

Ion Ratio Lower Upper

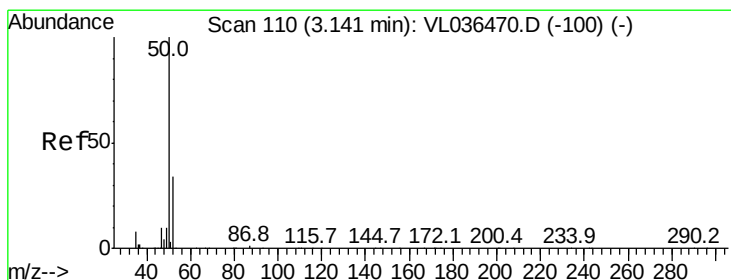
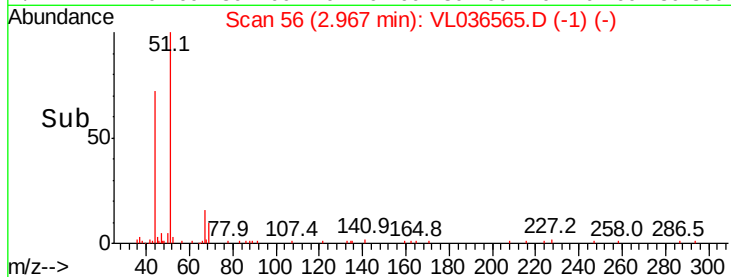
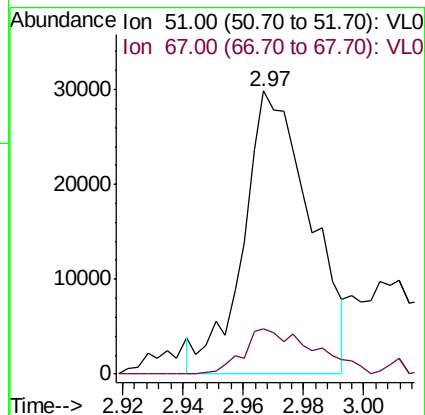
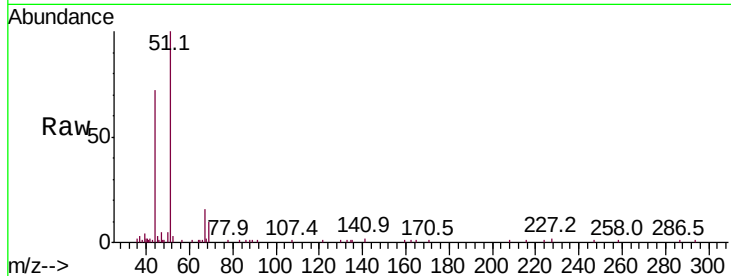
51 100

67 0.8 14.7 22.1#

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#4

Chloromethane

Concen: 0.496 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL036565.D

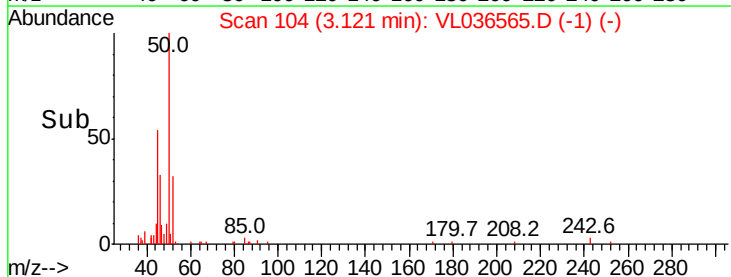
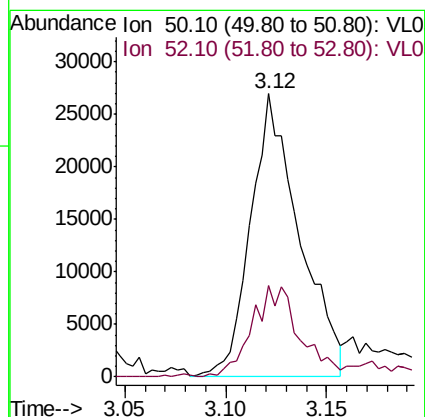
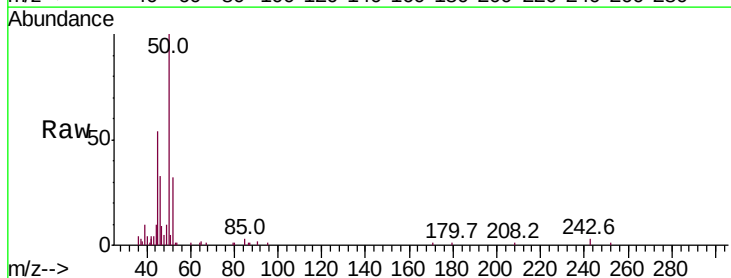
Acq: 30 Mar 2021 11:38

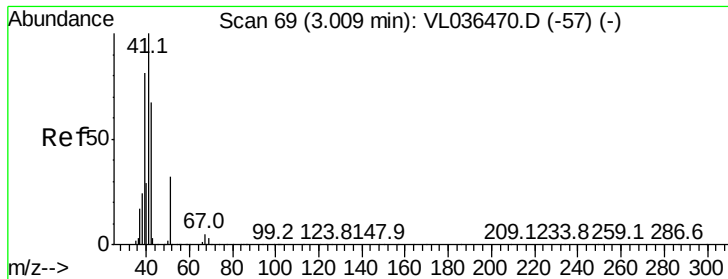
Tgt Ion: 50 Resp: 45543

Ion Ratio Lower Upper

50 100

52 31.4 27.0 40.6





#9

Propene

Concen: 0.715 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036565.D

Acq: 30 Mar 2021 11:38

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 41 Resp: 59270

Ion Ratio Lower Upper

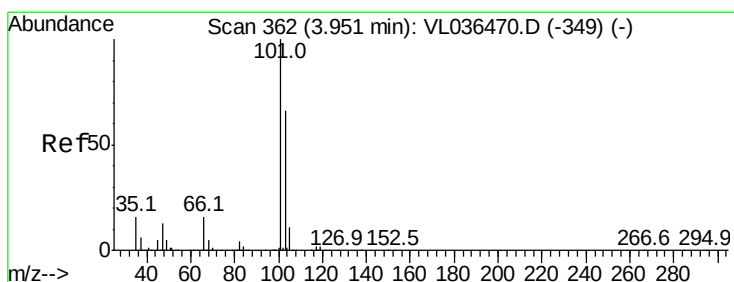
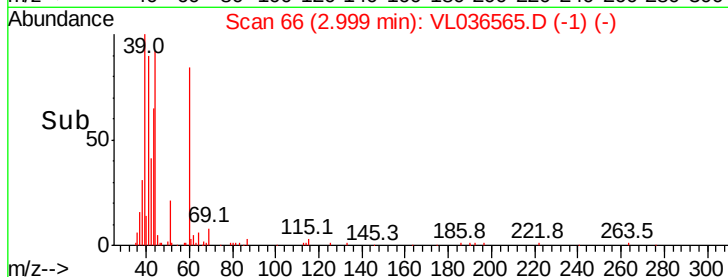
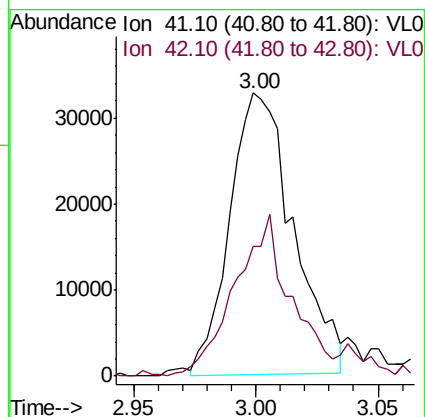
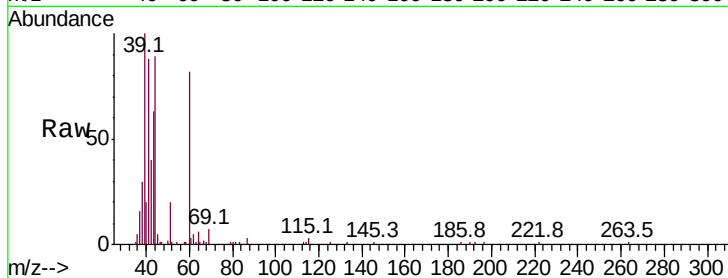
41 100

42 57.5 57.0 85.4

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#11

Trichlorofluoromethane

Concen: 0.200 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.02 min

Lab File: VL036565.D

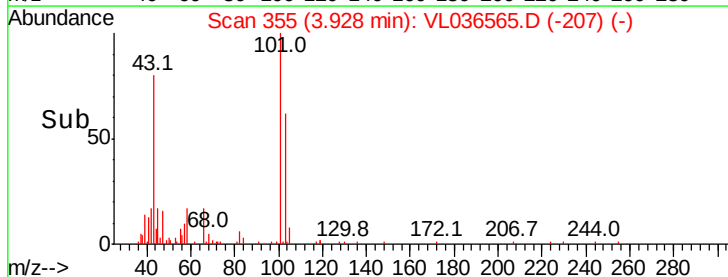
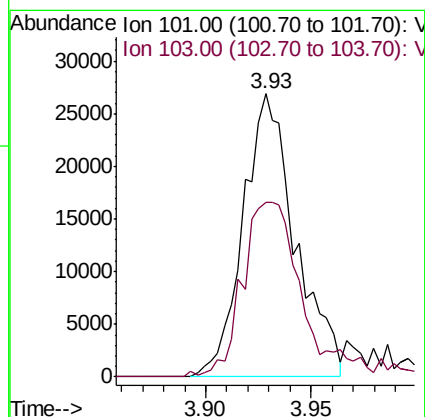
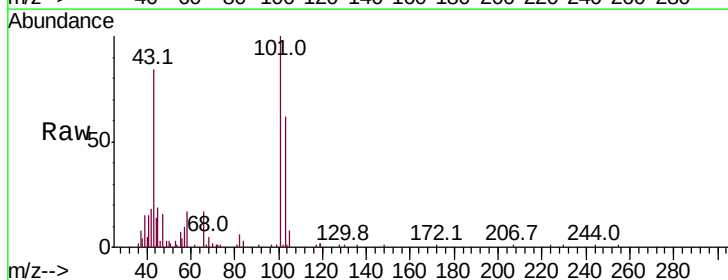
Acq: 30 Mar 2021 11:38

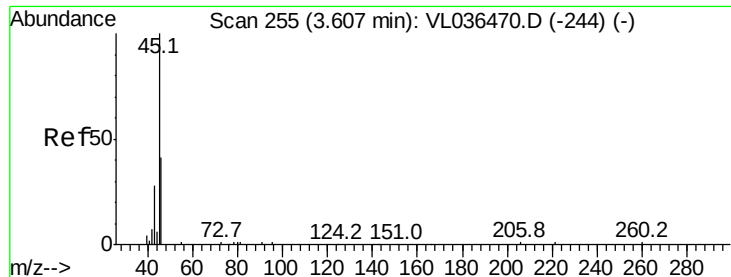
Tgt Ion: 101 Resp: 46296

Ion Ratio Lower Upper

101 100

103 59.7 52.5 78.7





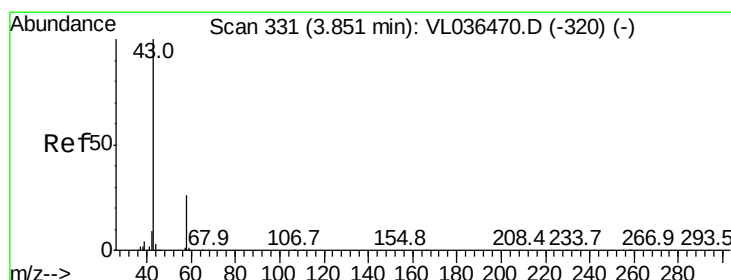
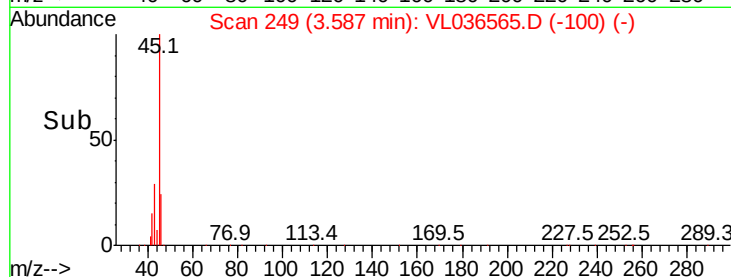
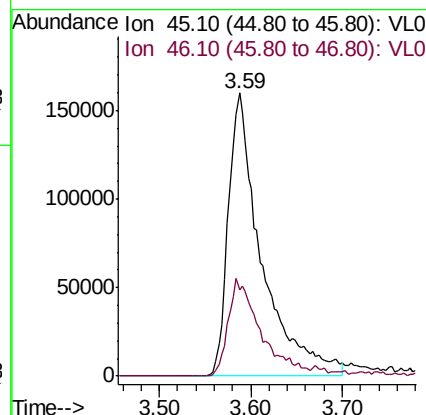
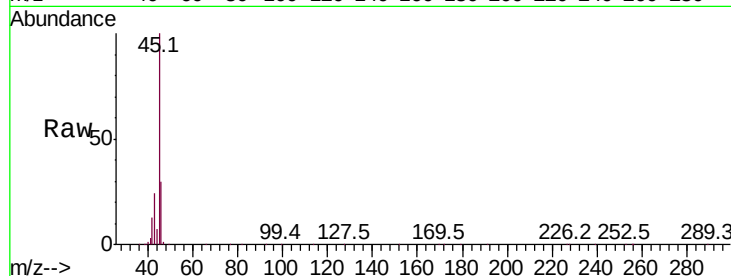
#13
Ethanol
Concen: 40.926 ppbv m
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion: 45 Resp: 404196
Ion Ratio Lower Upper
45 100
46 35.6 16.6 66.2

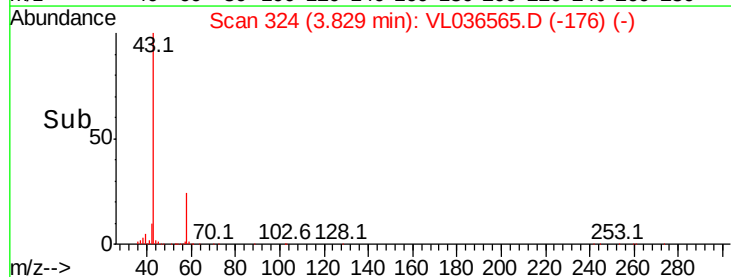
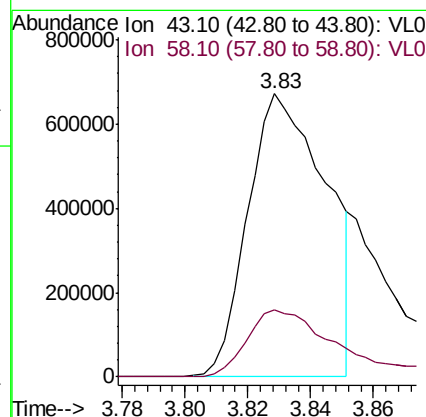
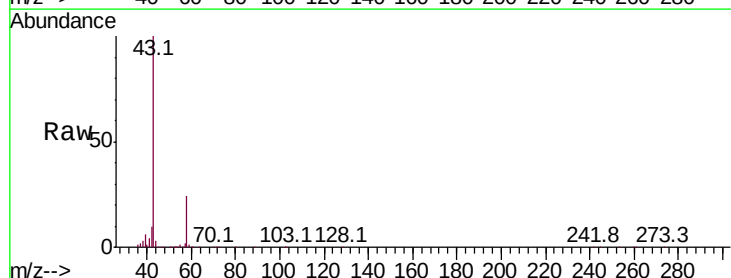
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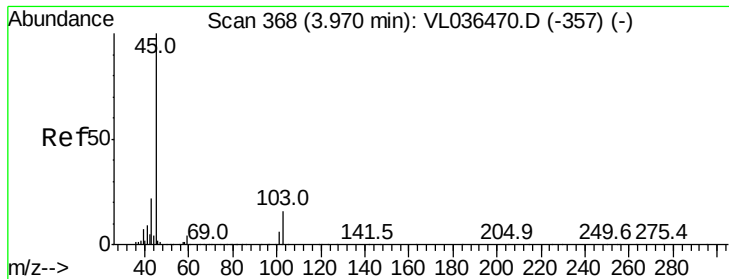
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#15
Acetone
Concen: 8.504 ppbv m
RT: 3.83 min Scan# 324
Delta R.T. -0.02 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Tgt Ion: 43 Resp: 1165427
Ion Ratio Lower Upper
43 100
58 29.5 21.2 31.8





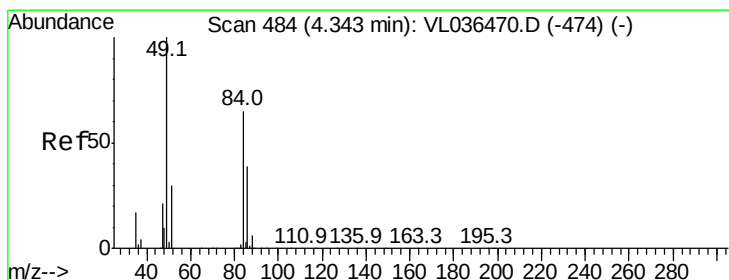
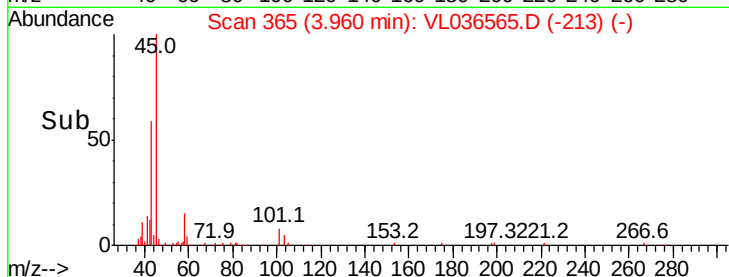
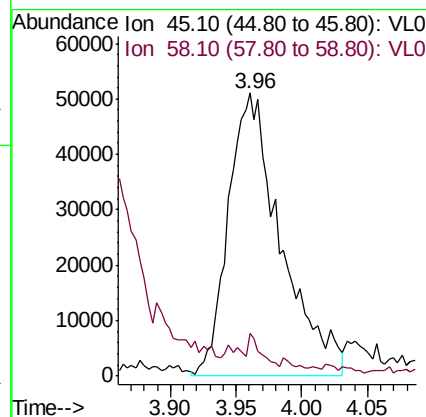
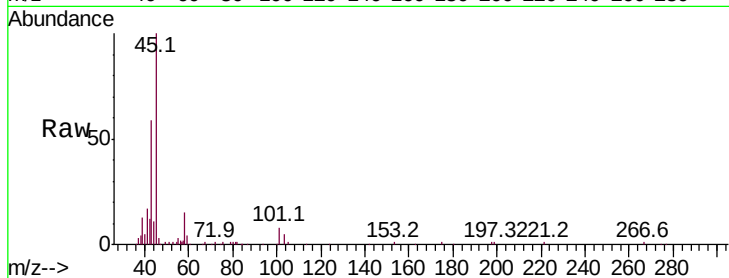
#19
Isopropyl Alcohol
Concen: 1.890 ppbv m
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
45	100		
58	7.3	2.9	4.3#

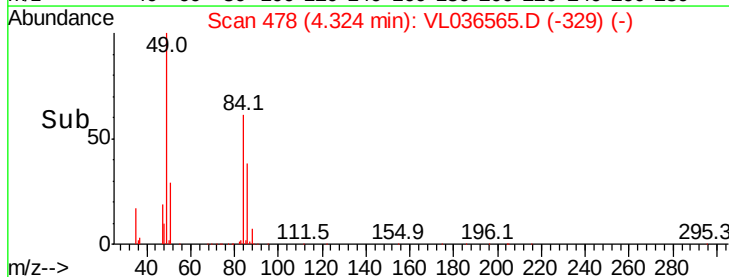
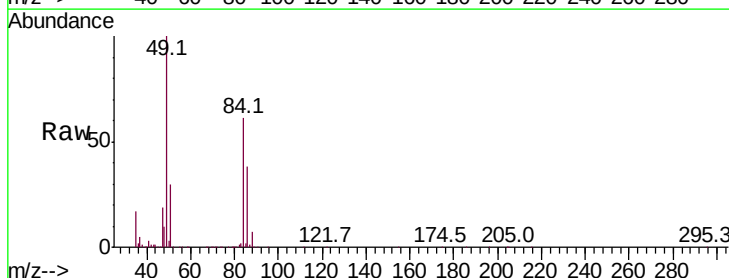
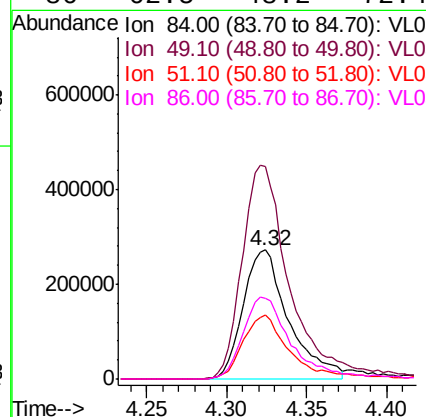
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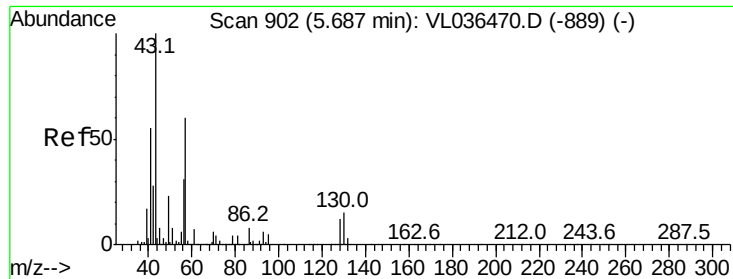
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#20
Methylene Chloride
Concen: 8.238 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Tgt Ion	Ratio	Lower	Upper
84	100		
49	163.9	122.9	184.3
51	49.4	36.9	55.3
86	62.5	48.2	72.4





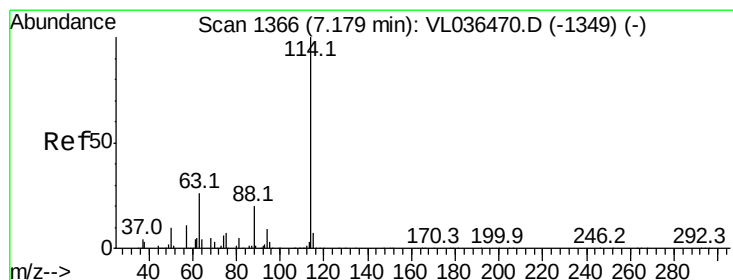
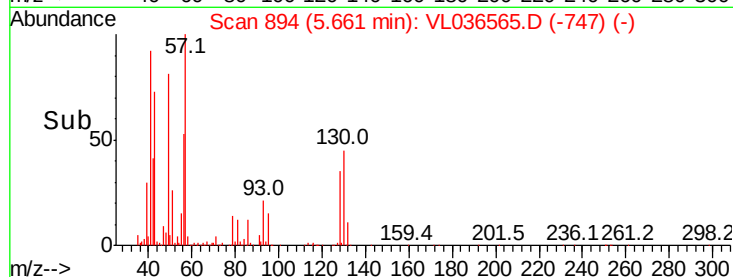
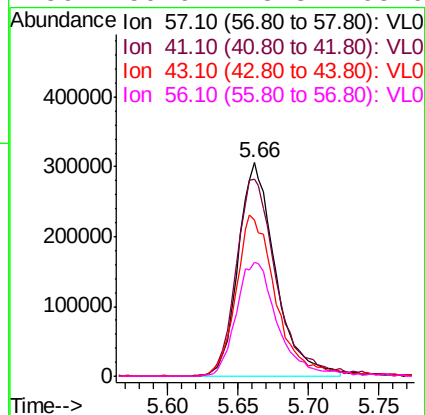
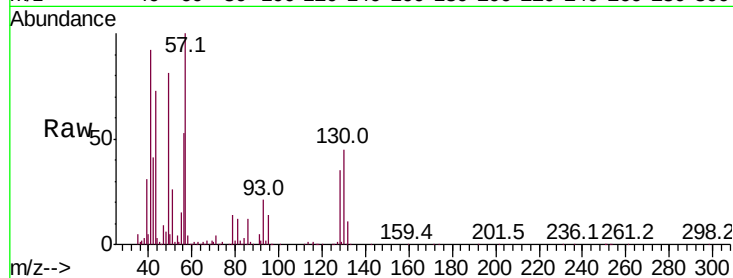
#26
Hexane
Concen: 3.760 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	102.2	77.2	115.8
43	80.9	173.8	260.6#
56	59.6	43.8	65.6

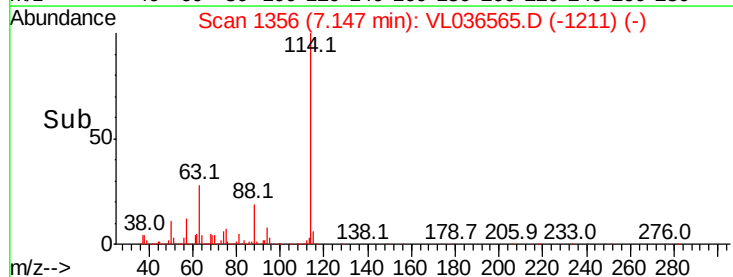
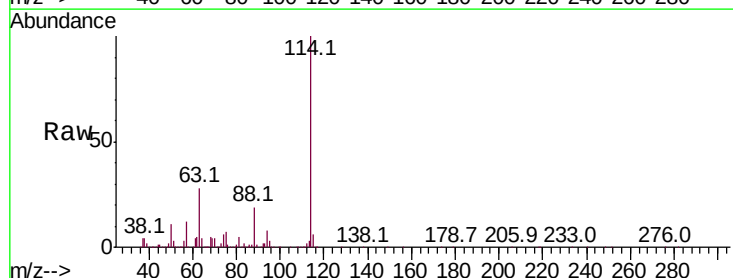
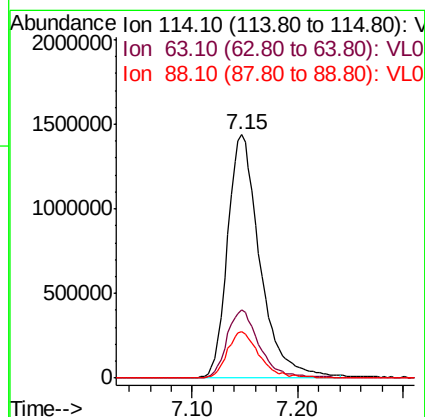
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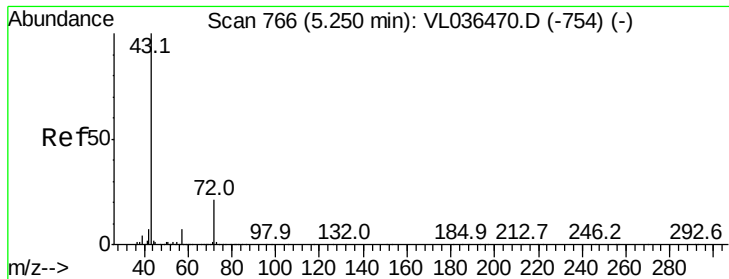
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.6	22.4	33.6
88	19.4	15.4	23.0





#34

2-Butanone

Concen: 0.520 ppbv

RT: 5.22 min Scan# 758

Delta R.T. -0.03 min

Lab File: VL036565.D

Acq: 30 Mar 2021 11:38

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 43 Resp: 77732

Ion Ratio Lower Upper

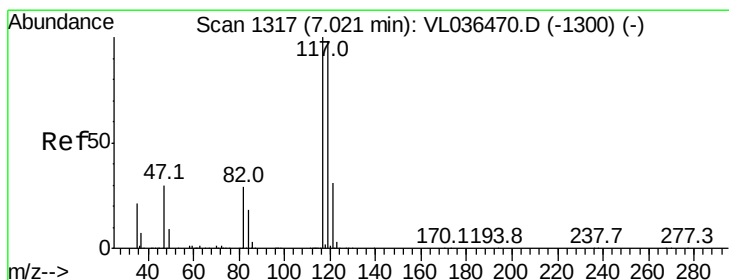
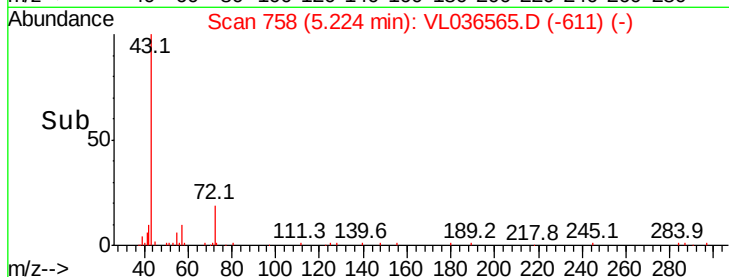
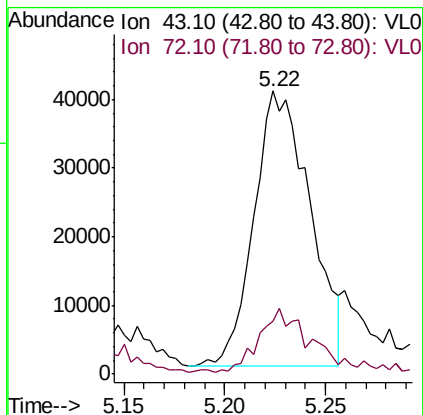
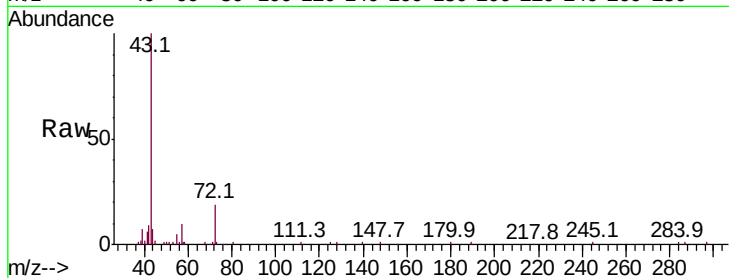
43 100

72 27.4 17.0 25.6#

Manual Integrations
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#35

Carbon Tetrachloride

Concen: 0.063 ppbv m

RT: 6.98 min Scan# 1305

Delta R.T. -0.04 min

Lab File: VL036565.D

Acq: 30 Mar 2021 11:38

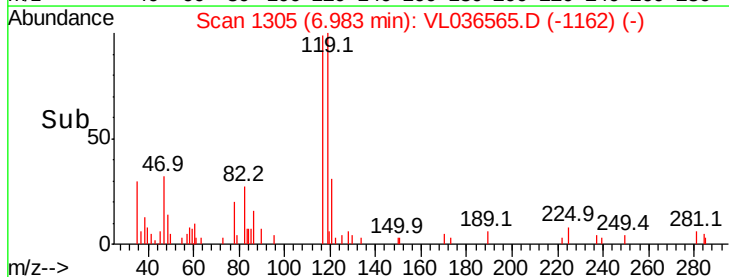
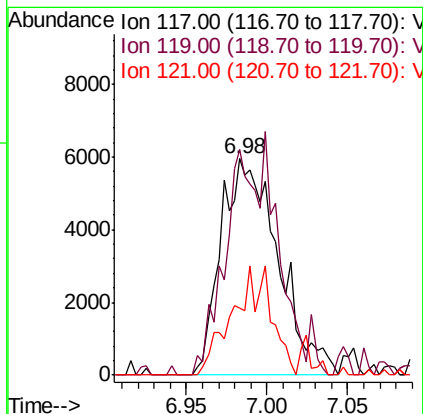
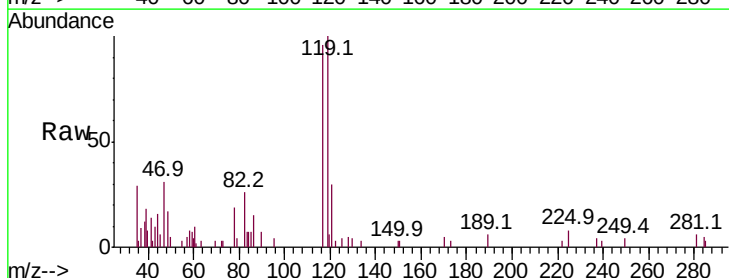
Tgt Ion: 117 Resp: 14799

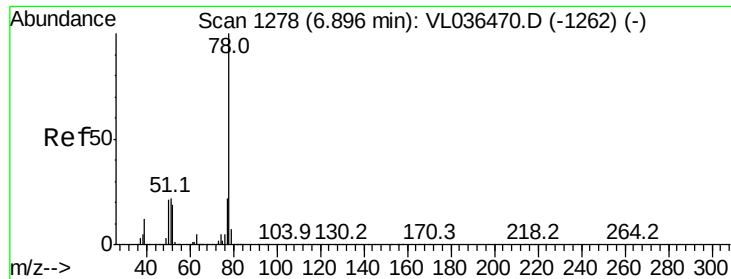
Ion Ratio Lower Upper

117 100

119 104.1 78.2 117.2

121 31.2 24.5 36.7





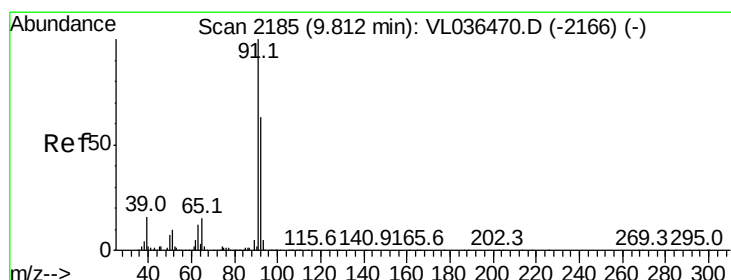
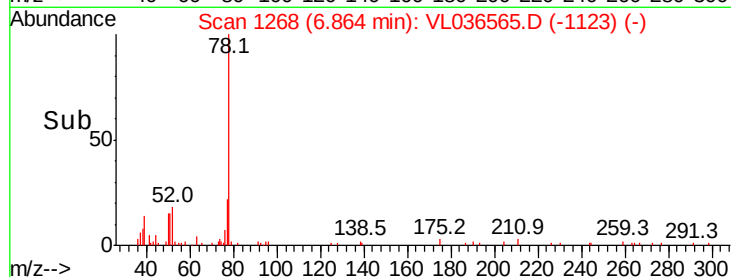
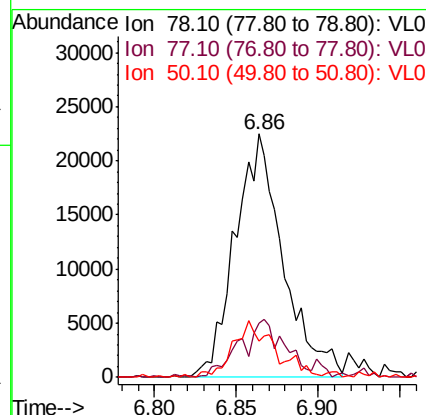
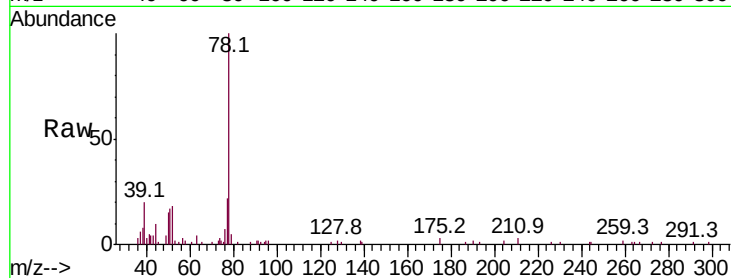
#36
Benzene
Concen: 0.163 ppbv m
RT: 6.86 min Scan# 1268
Delta R.T. -0.03 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.0	27.0
50	14.7	16.5	24.7#

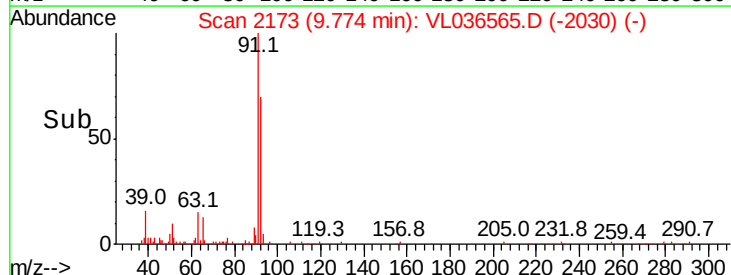
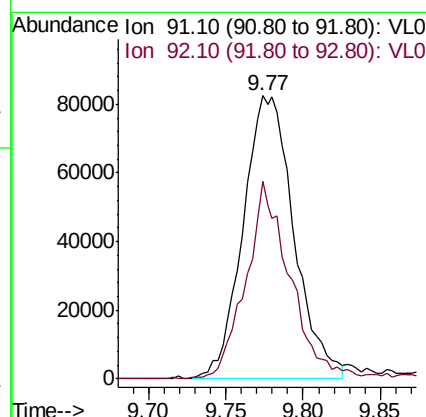
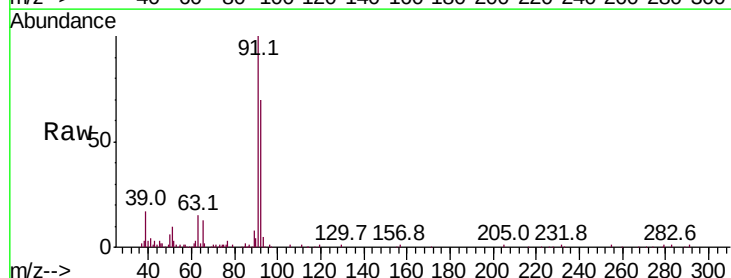
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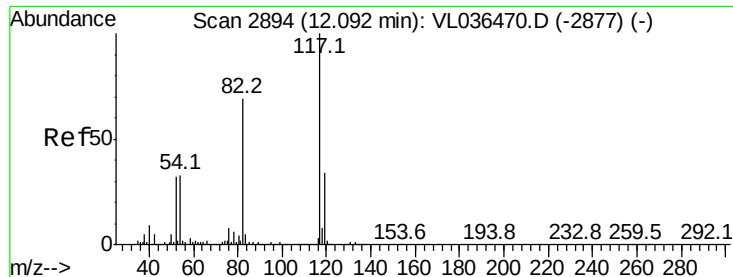
MMDadoda
4/1/2021 10:57:57 AM



#53
Toluene
Concen: 0.627 ppbv
RT: 9.77 min Scan# 2173
Delta R.T. -0.04 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.8	73.2





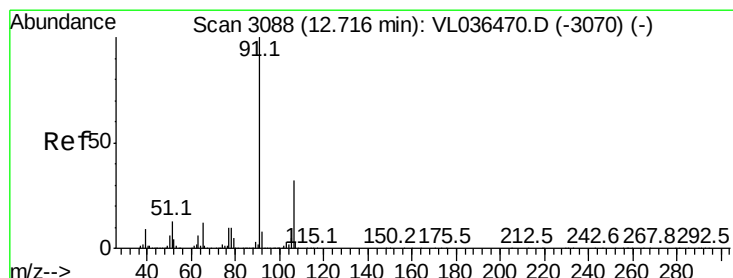
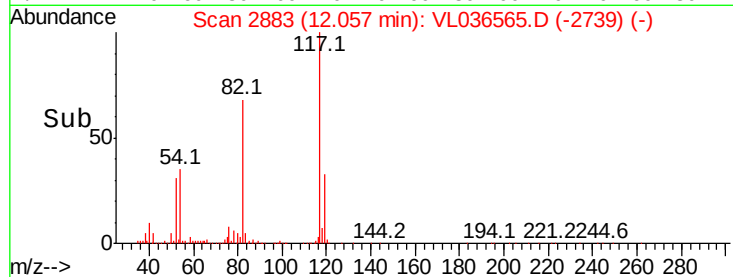
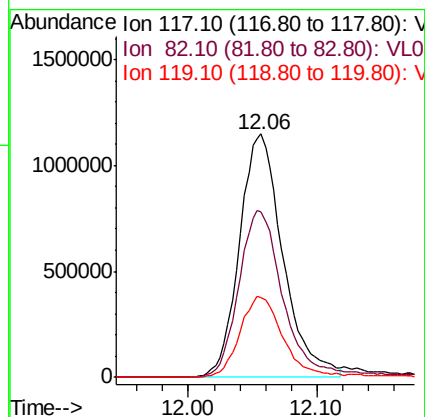
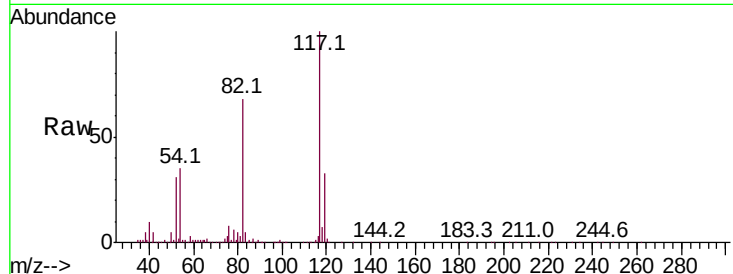
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.04 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.2	57.4	86.0
119	34.5	47.4	71.0#

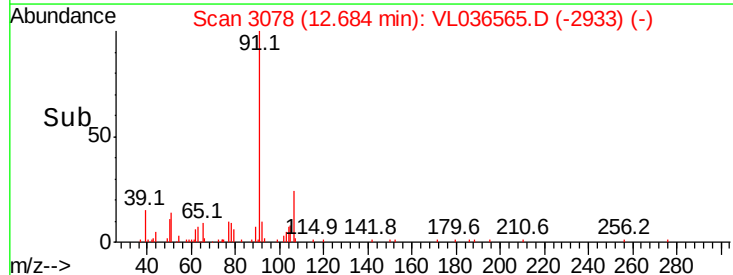
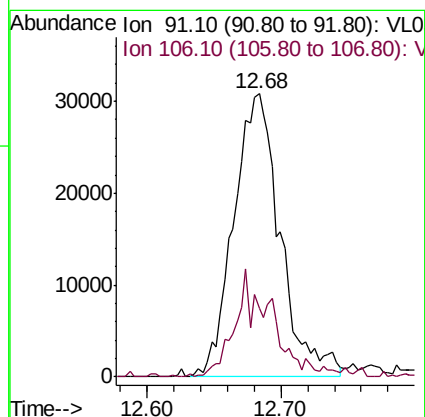
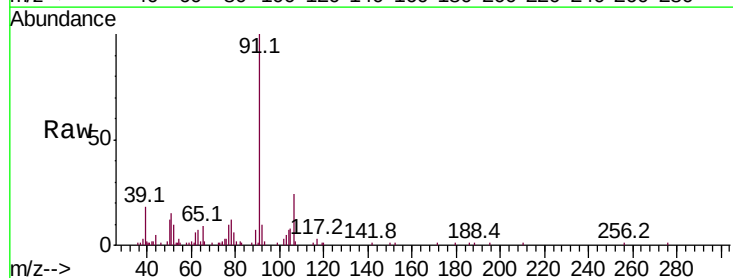
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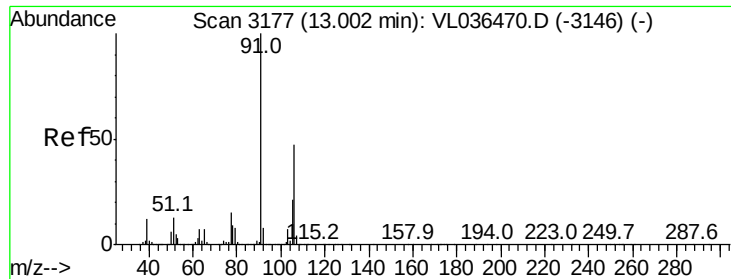
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#58
Ethyl Benzene
Concen: 0.190 ppbv m
RT: 12.68 min Scan# 3078
Delta R.T. -0.03 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	24.0	25.3	37.9#





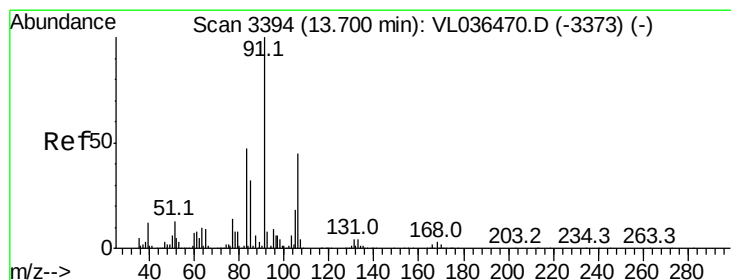
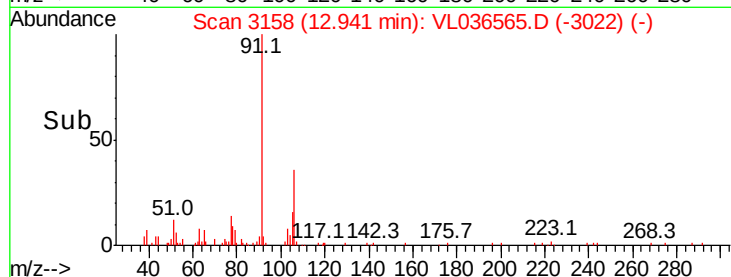
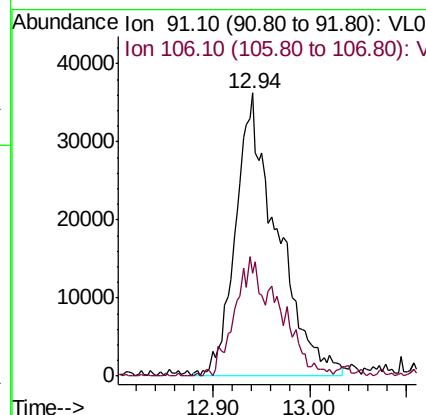
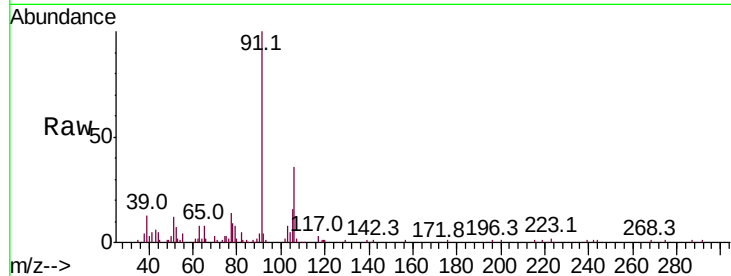
#59
m/p-Xylene
Concen: 0.318 ppbv m
RT: 12.94 min Scan# 3158
Delta R.T. -0.06 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion: 91 Resp: 108635
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

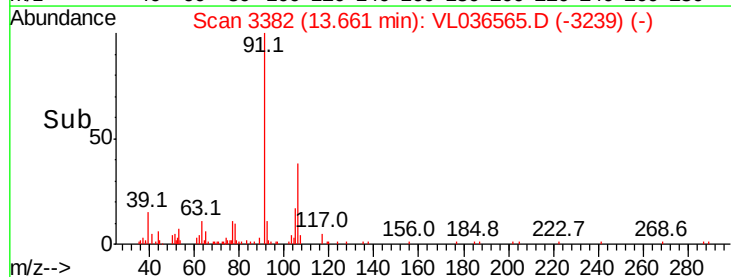
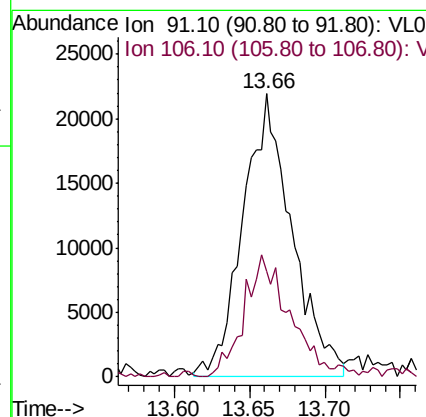
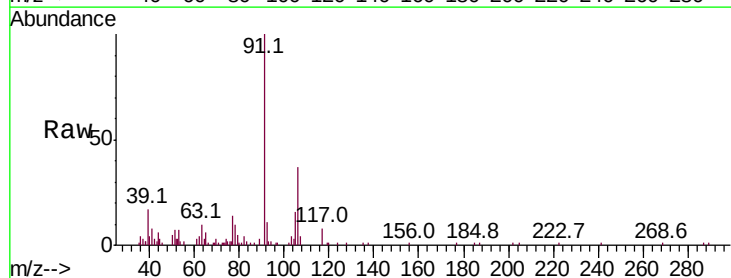
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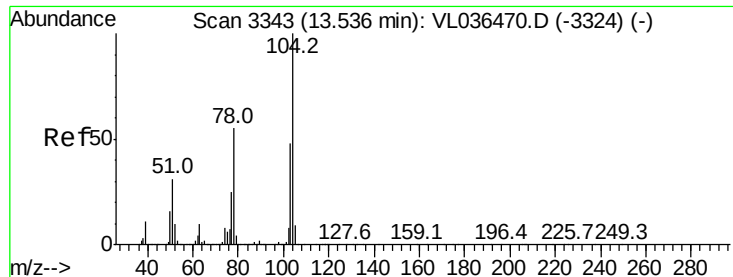
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#60
o-Xylene
Concen: 0.151 ppbv m
RT: 13.66 min Scan# 3382
Delta R.T. -0.04 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Tgt Ion: 91 Resp: 49664
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#





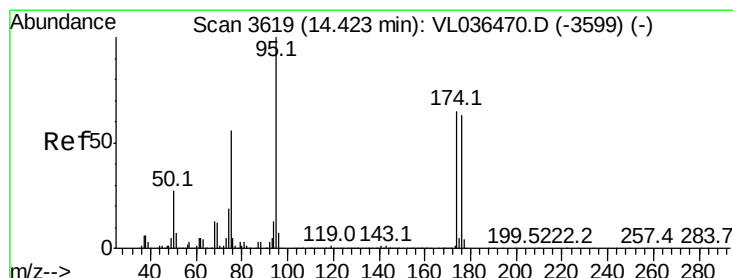
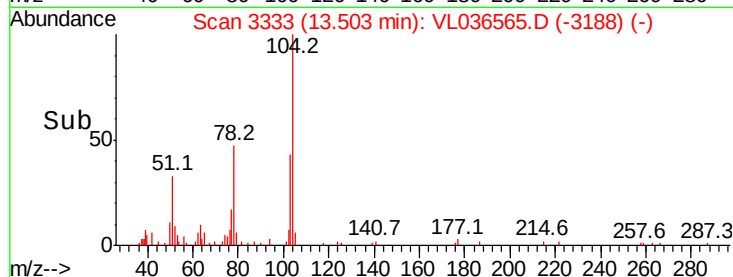
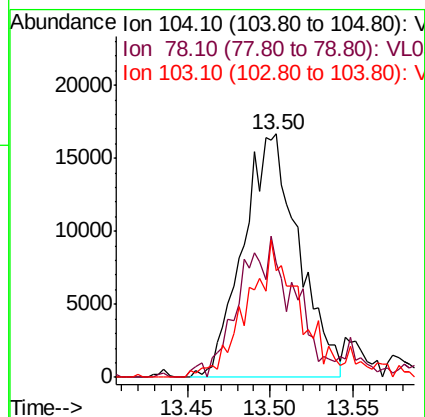
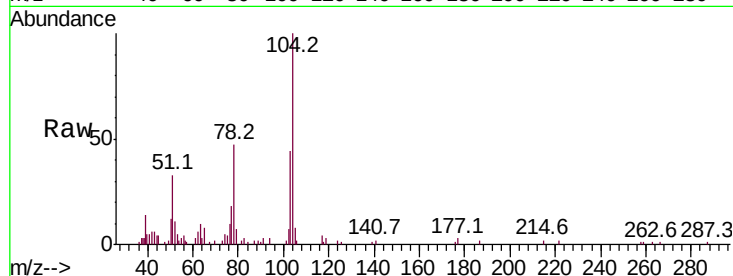
#61
Stvrene
Concen: 0.235 ppbv
RT: 13.50 min Scan# 3333
Delta R.T. -0.03 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.7	43.8	65.8
103	57.7	38.3	57.5#

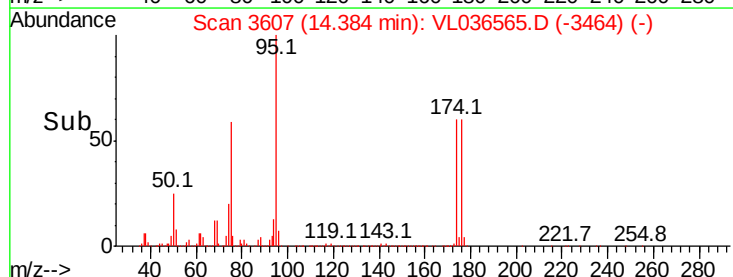
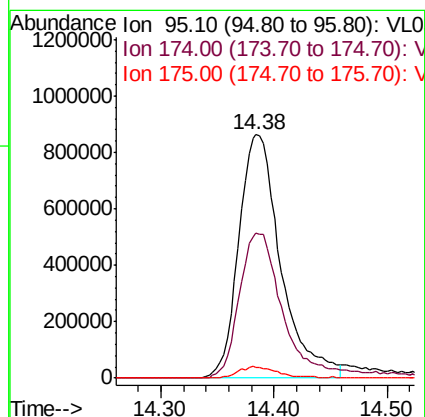
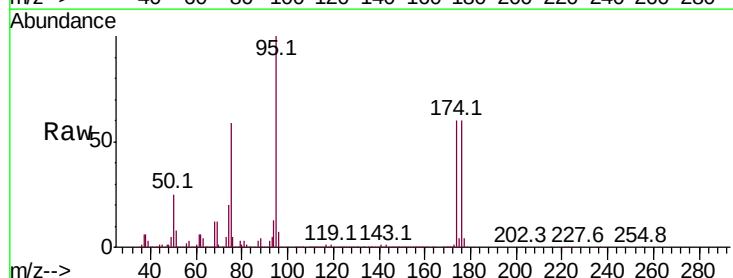
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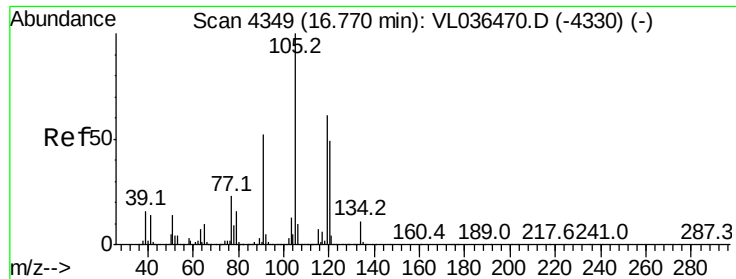
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.405 ppbv
RT: 14.38 min Scan# 3607
Delta R.T. -0.04 min
Lab File: VL036565.D
Acq: 30 Mar 2021 11:38

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.4	51.0	76.6
175	4.8	3.9	5.9





#74

1,2,4-Trimethylbenzene

Concen: 0.107 ppbv m

RT: 16.74 min Scan# 4339

Delta R.T. -0.03 min

Lab File: VL036565.D

Acq: 30 Mar 2021 11:38

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	51.4	39.2	58.8
91	19.8	42.6	64.0#
77	27.3	18.6	28.0

Manual Integrations
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4/1/2021 10:57:57 AM

