

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036586.D
 Acq On : 31 Mar 2021 1:51
 Operator : SY/AP
 Sample : M1797-10
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-13(2021)DUP

Manual Integrations
 APPROVED

MMDadoda
 4/1/2021 10:59:47 AM

Quant Time: Mar 31 21:50:15 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	5.65	49	1329809	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3212390	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2821008	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2293425	10.20	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	49449	0.228	ppbv	89
3) Chlorodifluoromethane	2.98	51	51608	0.208	ppbv	93
4) Chloromethane	3.13	50	23792m	0.271	ppbv	
11) Trichlorofluoromethane	3.94	101	58510	0.265	ppbv	99
13) Ethanol	3.60	45	1536032	162.849	ppbv	93
15) Acetone	3.84	43	1922414	14.688	ppbv	100
19) Isopropyl Alcohol	3.97	45	186513m	2.590	ppbv	
20) Methylene Chloride	4.33	84	2237949	36.520	ppbv	93
26) Hexane	5.67	57	4005224	27.737	ppbv #	47
29) Chloroform	5.73	83	40588m	0.176	ppbv	
30) Cyclohexane	7.12	84	30641m	0.262	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	86915m	0.373	ppbv	
34) 2-Butanone	5.24	43	113040	0.721	ppbv	97
35) Carbon Tetrachloride	7.00	117	11981m	0.049	ppbv	
36) Benzene	6.88	78	51699	0.174	ppbv #	88
40) 1,4-Dioxane	7.85	88	13831m	0.494	ppbv	
52) Tetrachloroethene	11.20	164	158680m	1.454	ppbv	
53) Toluene	9.79	91	85543m	0.271	ppbv	
59) m/p-Xylene	12.96	91	63447m	0.177	ppbv	

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

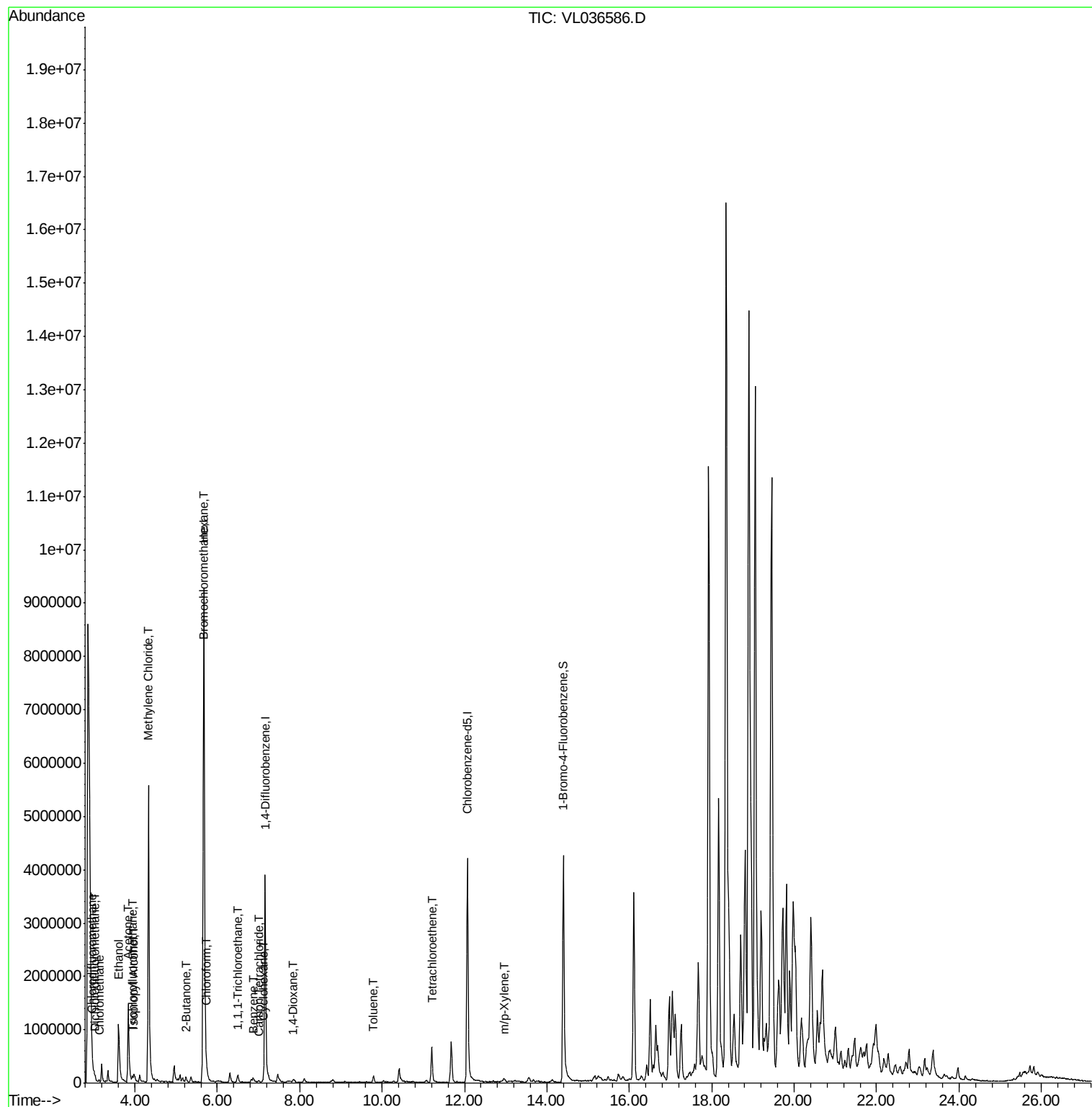
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033021\
Data File : VL036586.D
Acq On : 31 Mar 2021 1:51
Operator : SY/AP
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Misc : 400mL/MSVOA L
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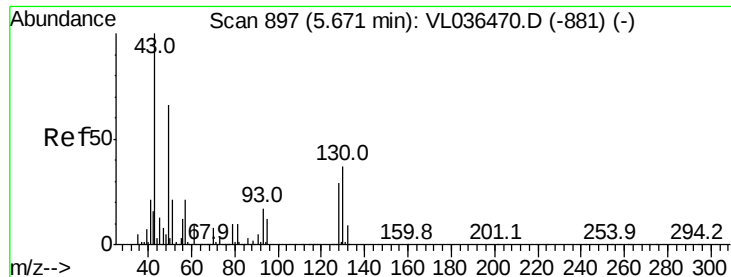
Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)DUP

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Quant Time: Mar 31 21:50:15 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

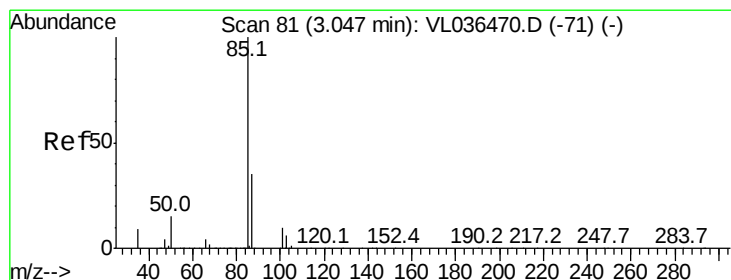
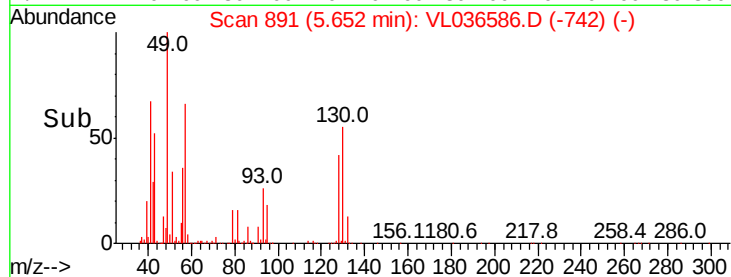
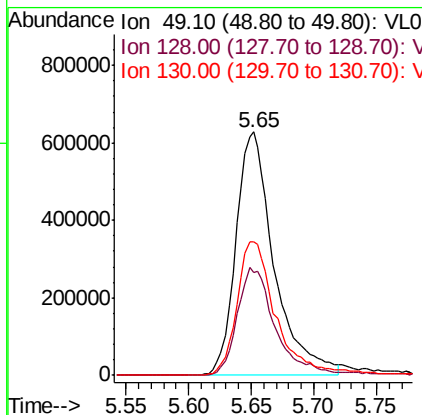
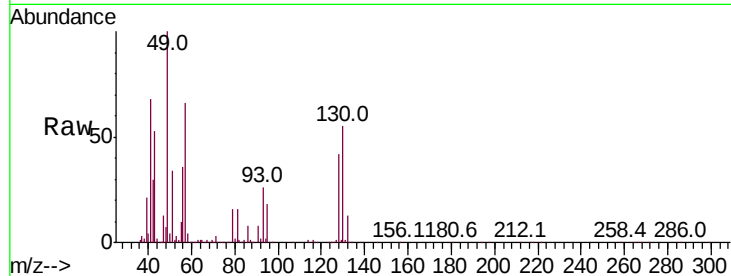
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. -0.02 min
 Lab File: VL036586.D
 Acq: 31 Mar 2021 1:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-13(2021)DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.3	23.5	70.6
130	57.5	29.1	87.4

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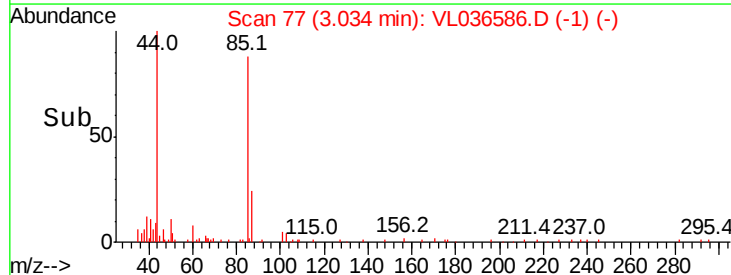
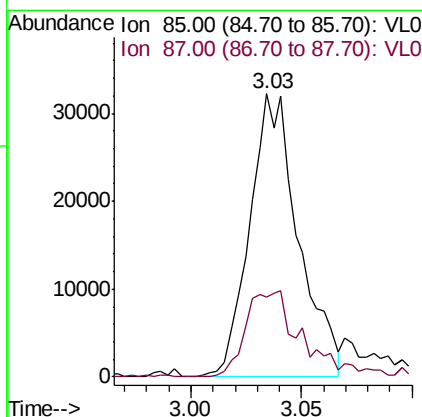
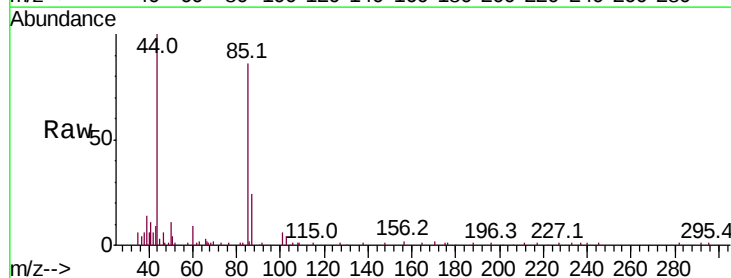
MMDadoda
 4/1/2021 10:59:47 AM

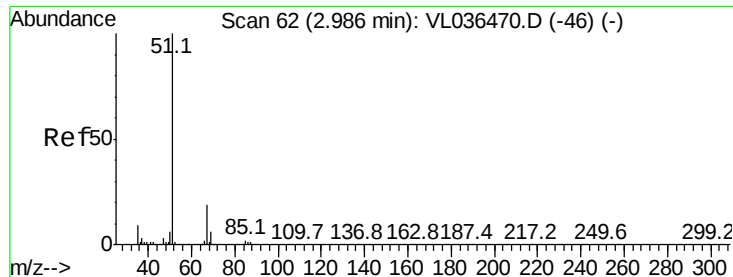


#2

Dichlorodifluoromethane
 Concen: 0.228 ppbv
 RT: 3.03 min Scan# 77
 Delta R.T. -0.01 min
 Lab File: VL036586.D
 Acq: 31 Mar 2021 1:51

Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.3	27.8	41.8





#3

Chlorodifluoromethane

Concen: 0.208 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-13(2021)DUP

Tot Ion: 51 Resp: 51608

Ion Ratio Lower Upper

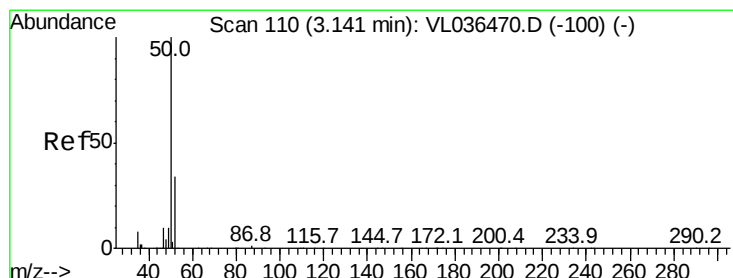
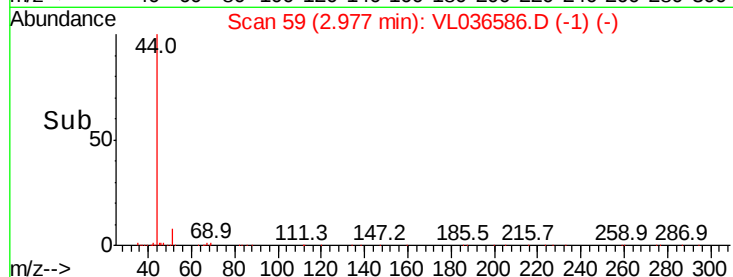
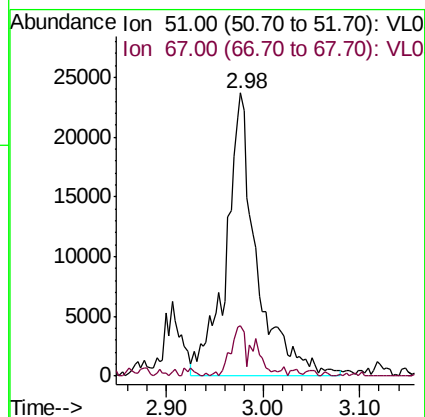
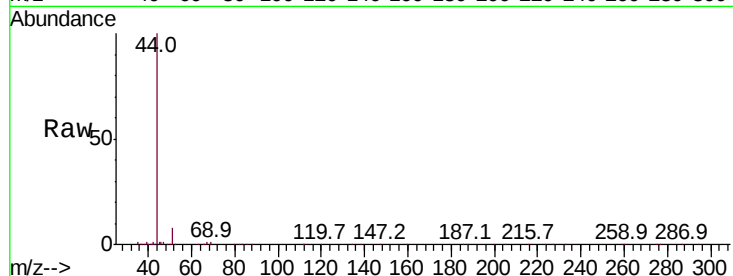
51 100

67 15.3 14.7 22.1

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#4

Chloromethane

Concen: 0.271 ppbv m

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL036586.D

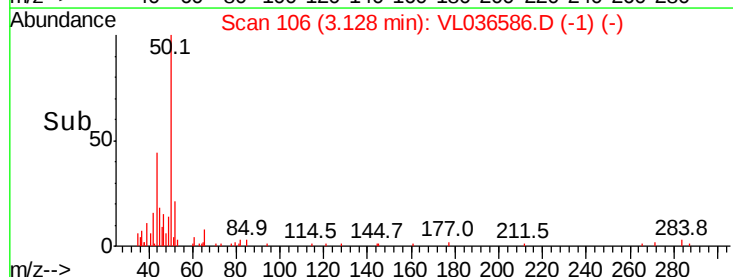
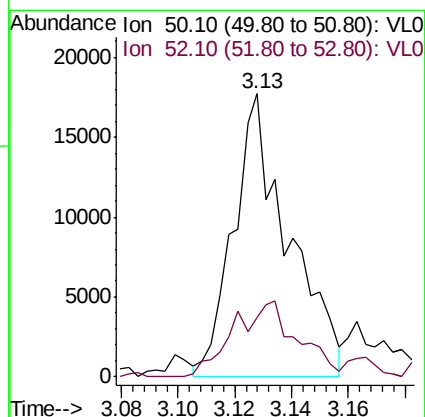
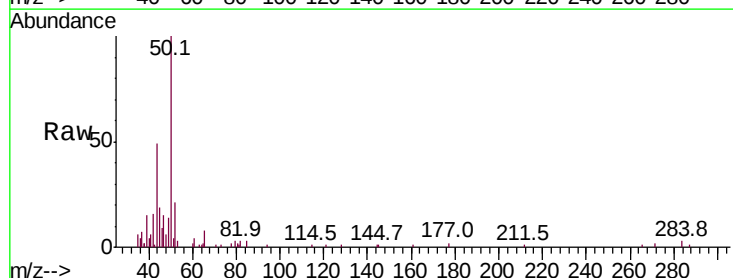
Acq: 31 Mar 2021 1:51

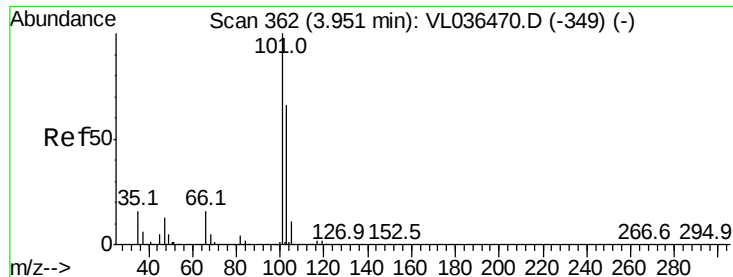
Tgt Ion: 50 Resp: 23792

Ion Ratio Lower Upper

50 100

52 21.1 27.0 40.6#





#11

Trichlorofluoromethane

Concen: 0.265 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-13(2021)DUP

Tot Ion:101 Resp: 58510

Ion Ratio Lower Upper

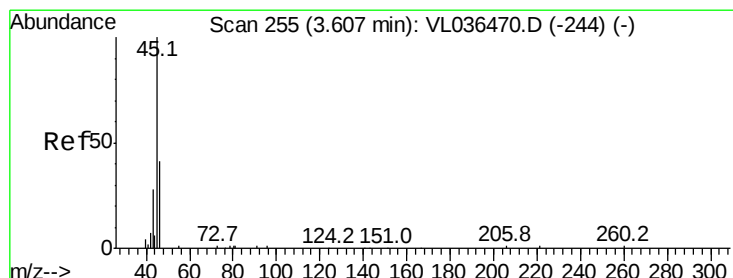
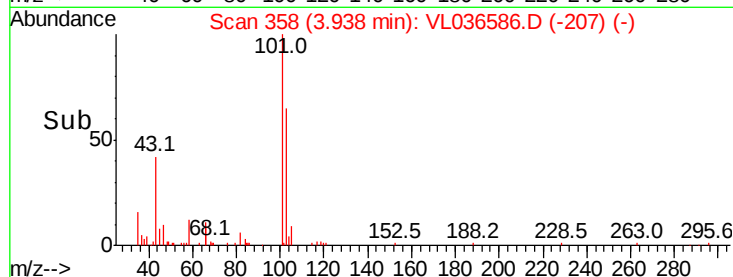
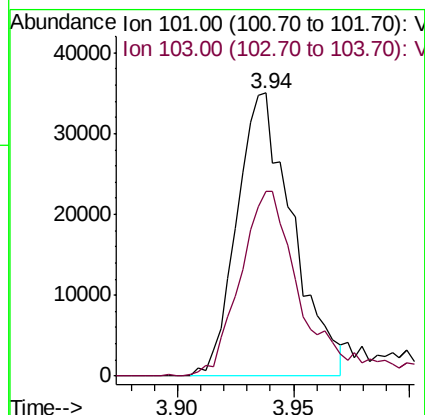
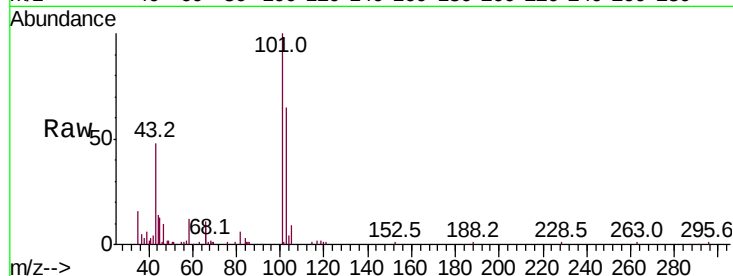
101 100

103 64.6 52.5 78.7

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#13

Ethanol

Concen: 162.849 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL036586.D

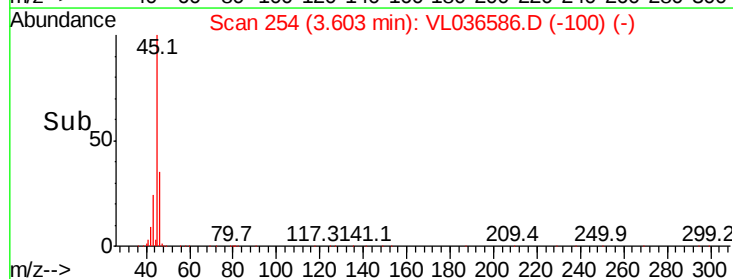
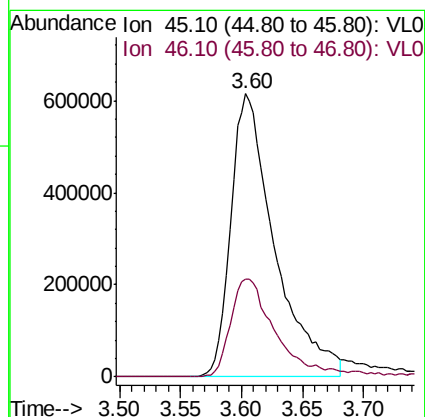
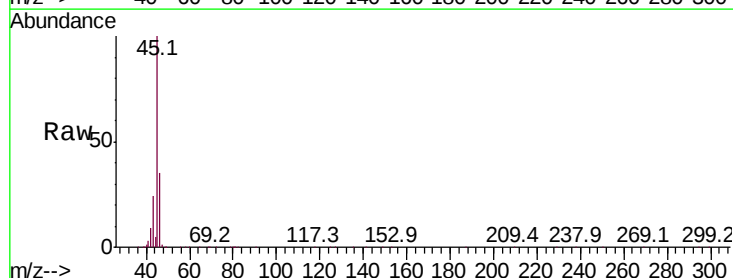
Acq: 31 Mar 2021 1:51

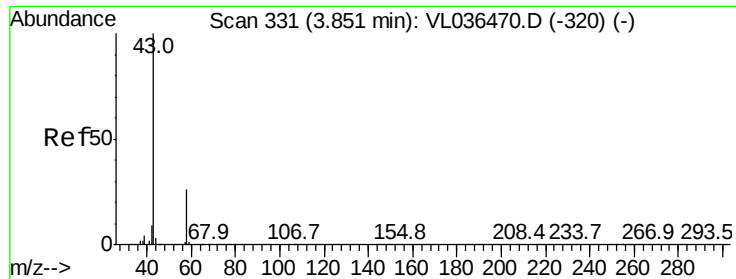
Tgt Ion: 45 Resp: 1536032

Ion Ratio Lower Upper

45 100

46 37.1 16.6 66.2





#15

Acetone

Concen: 14.688 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-13(2021)DUP

Tot Ion: 43 Resp: 1922414

Ion Ratio Lower Upper

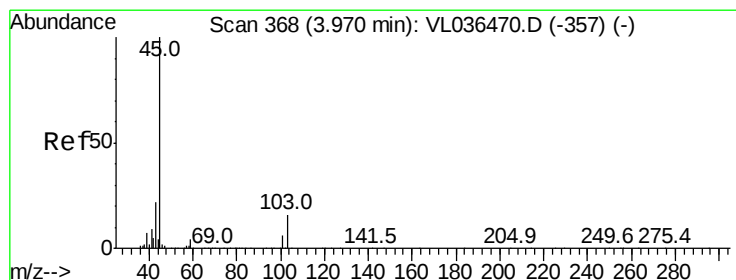
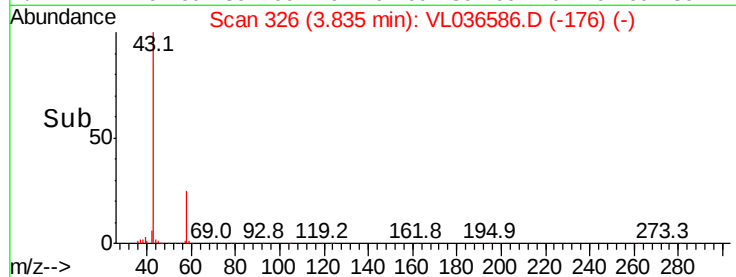
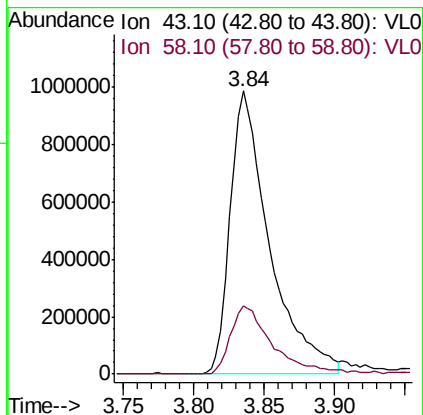
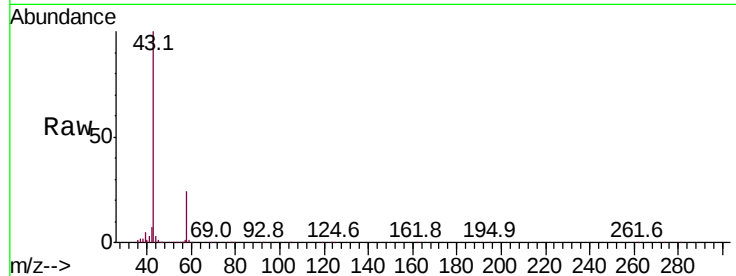
43 100

58 26.6 21.2 31.8

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#19

Isopropyl Alcohol

Concen: 2.590 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. -0.00 min

Lab File: VL036586.D

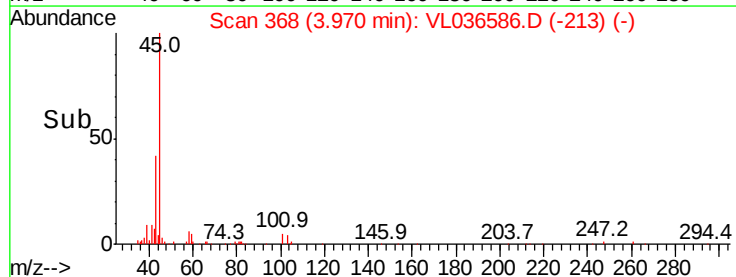
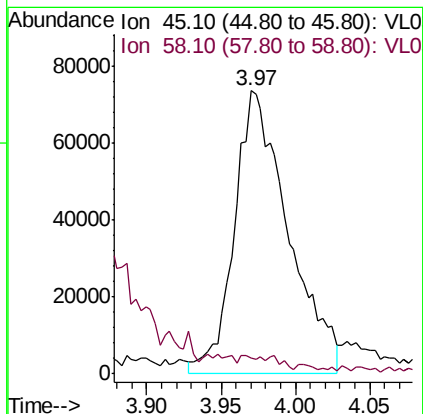
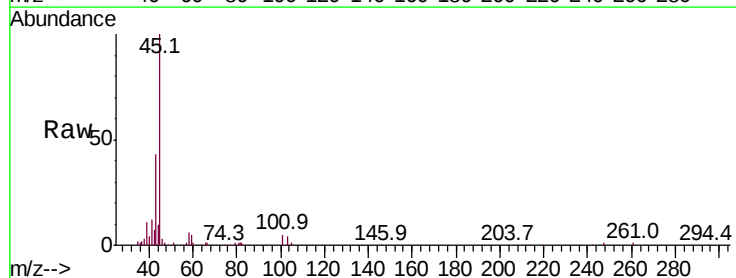
Acq: 31 Mar 2021 1:51

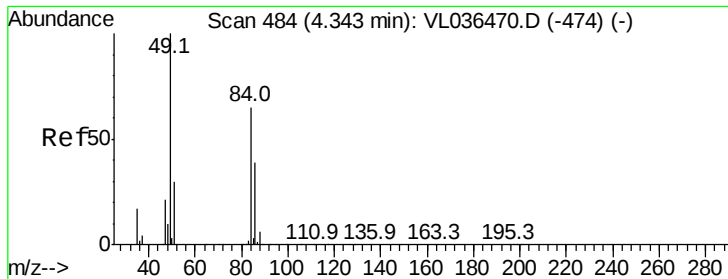
Tgt Ion: 45 Resp: 186513

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#





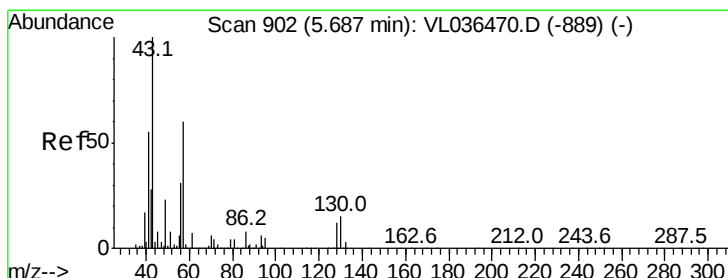
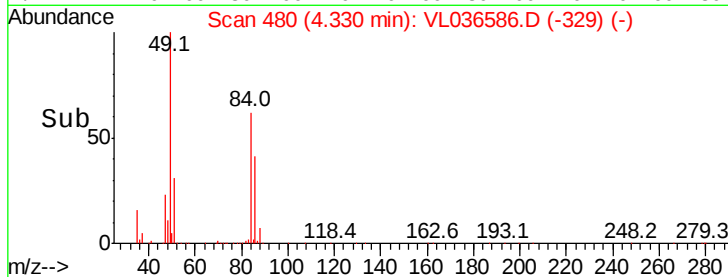
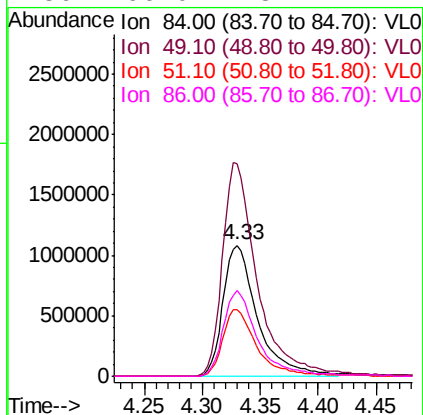
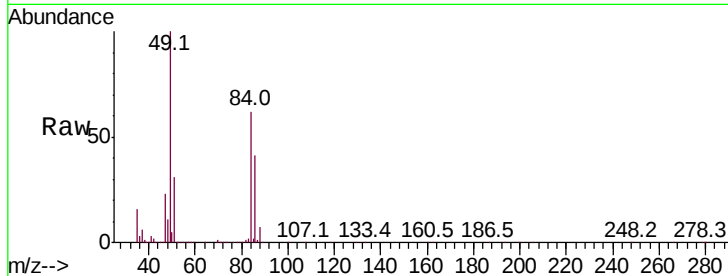
#20
Methylene Chloride
Concen: 36.520 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL036586.D
Acq: 31 Mar 2021 1:51

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)DUP

Tot Ion	84	Resp	2237949
Ion	Ratio	Lower	Upper
84	100		
49	161.9	122.9	184.3
51	50.7	36.9	55.3
86	66.0	48.2	72.4

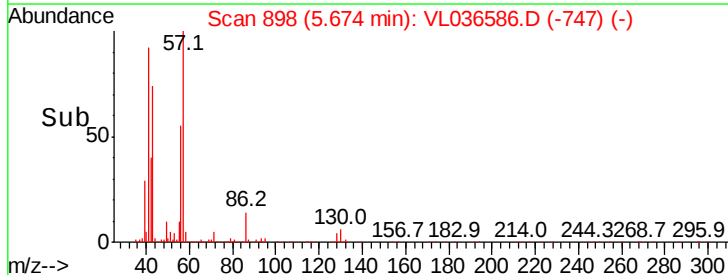
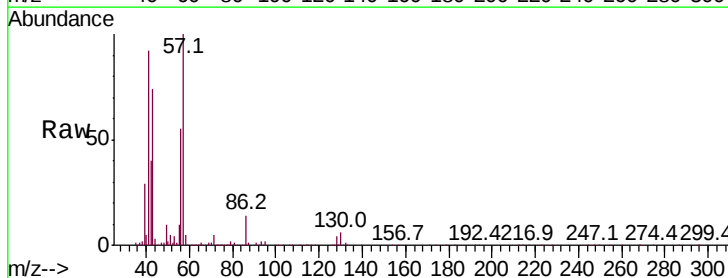
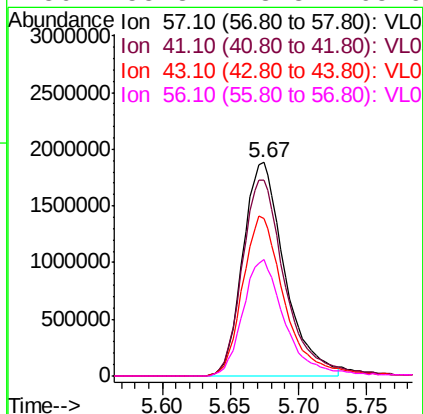
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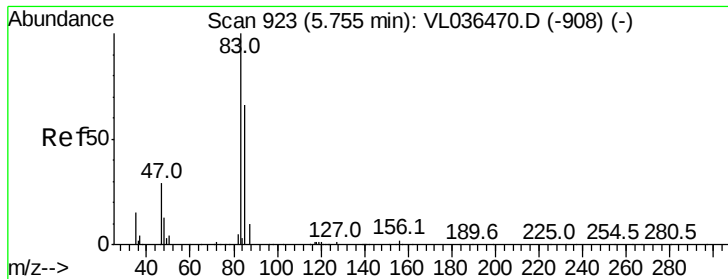
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#26
Hexane
Concen: 27.737 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036586.D
Acq: 31 Mar 2021 1:51

Tgt Ion	57	Resp	4005224
Ion	Ratio	Lower	Upper
57	100		
41	95.7	77.2	115.8
43	75.6	173.8	260.6#
56	55.3	43.8	65.6





#29

Chloroform

Concen: 0.176 ppbv m

RT: 5.73 min Scan# 916

Delta R.T. -0.02 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-13(2021)DUP

Tot Ion: 83 Resp: 40588

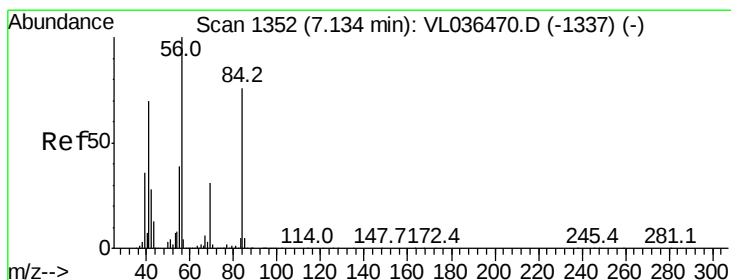
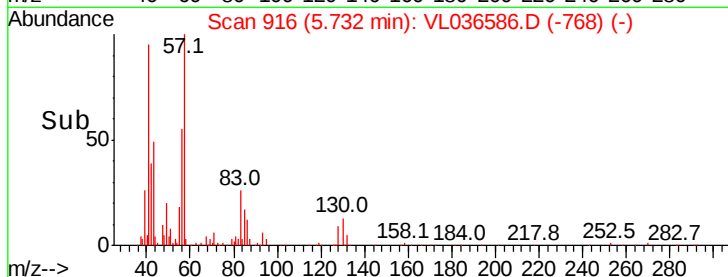
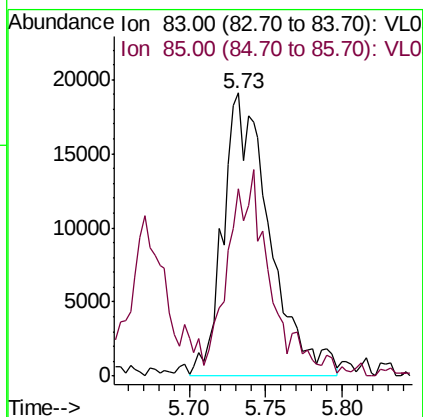
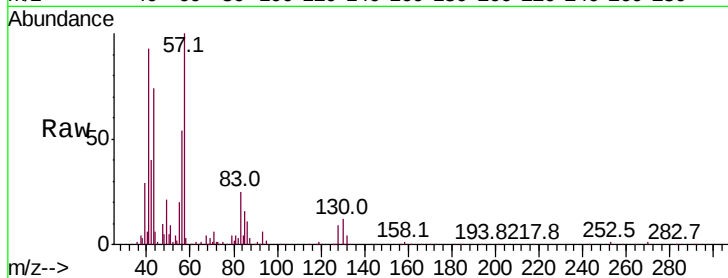
Ion Ratio Lower Upper

83 100

85 66.0 52.6 78.8

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#30

Cyclohexane

Concen: 0.262 ppbv m

RT: 7.12 min Scan# 1348

Delta R.T. -0.01 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

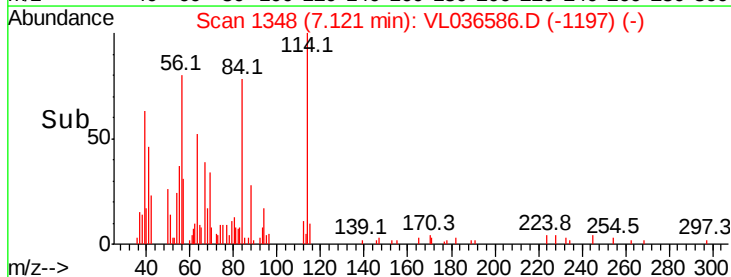
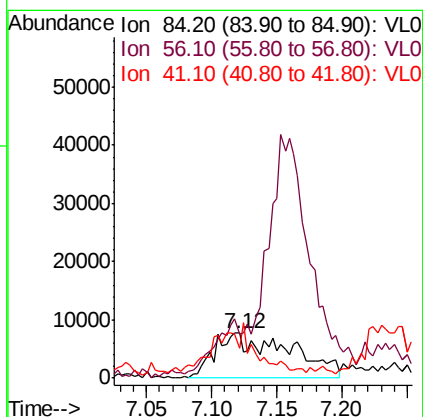
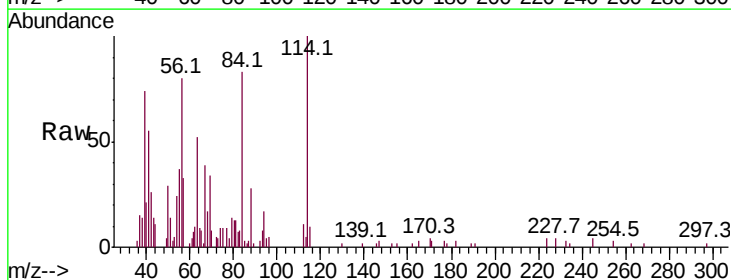
Tgt Ion: 84 Resp: 30641

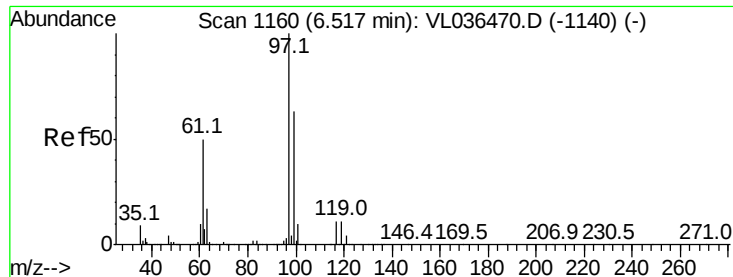
Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

41 0.0 75.3 112.9#





#32

1,1,1-Trichloroethane

Concen: 0.373 ppbv m

RT: 6.50 min Scan# 1154

Delta R.T. -0.02 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Instrument :

MSVOA_L

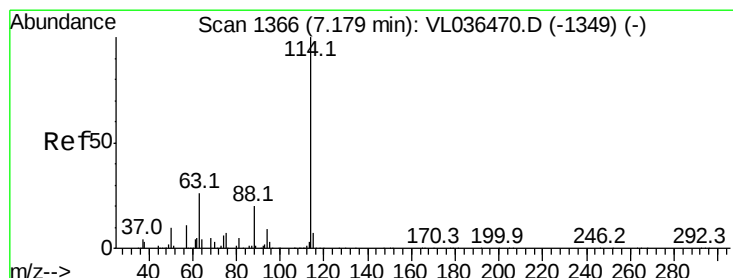
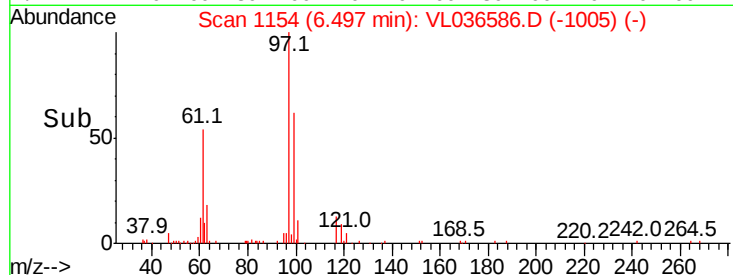
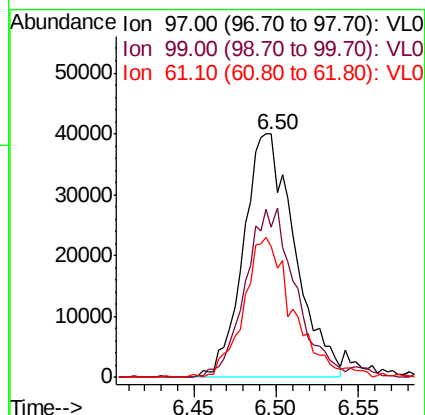
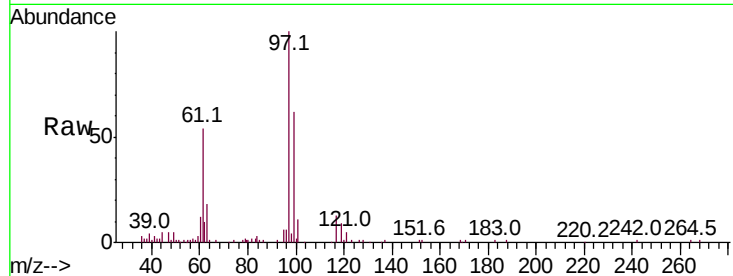
ClientSampleId :

MF-SG-13(2021)DUP

Tot Ion:	97	Resp:	86915
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.4	77.0#
61	56.5	40.6	60.8

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

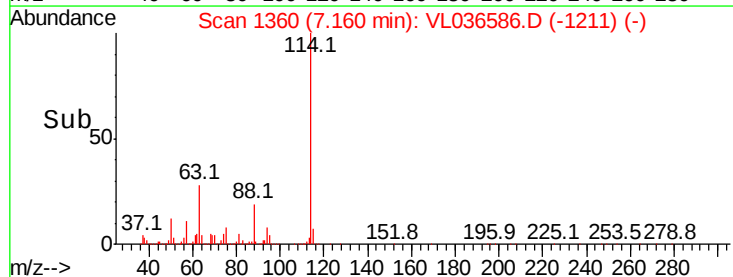
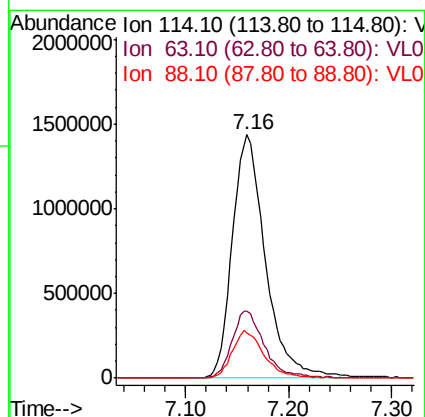
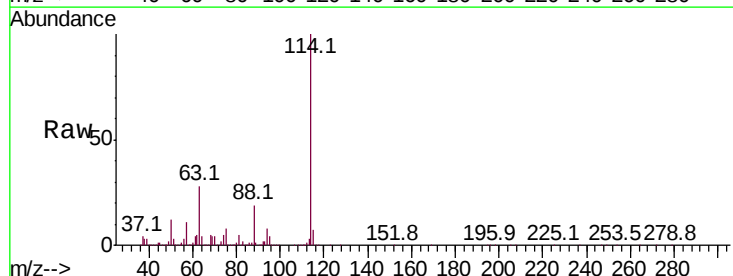
RT: 7.16 min Scan# 1360

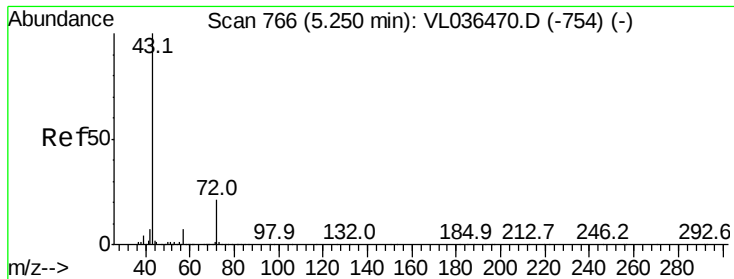
Delta R.T. -0.02 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Tgt Ion:	114	Resp:	3212390
Ion Ratio	Lower	Upper	
114	100		
63	27.4	22.4	33.6
88	19.1	15.4	23.0





#34

2-Butanone

Concen: 0.721 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-13(2021)DUP

Tot Ion: 43 Resp: 113040

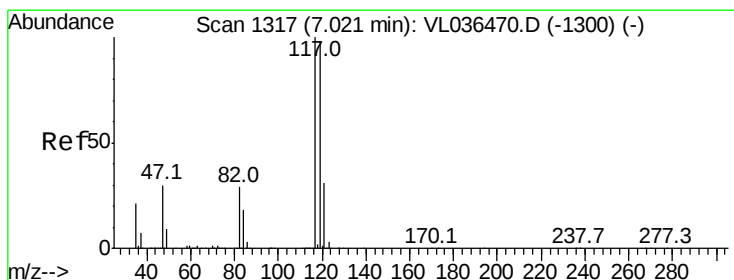
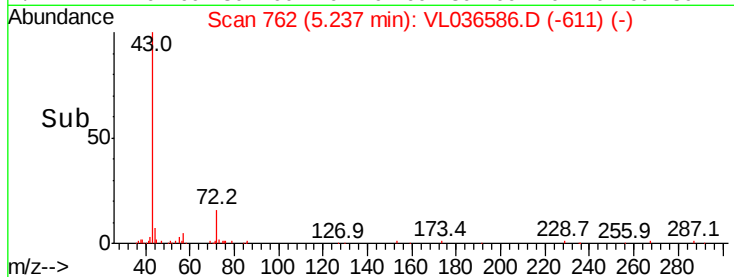
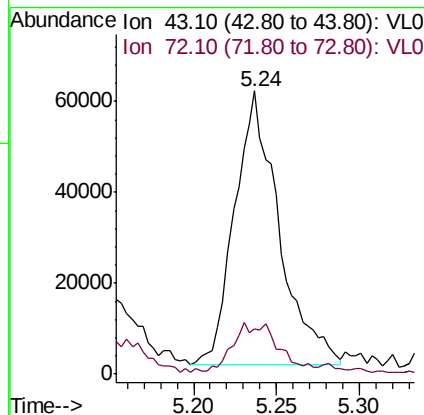
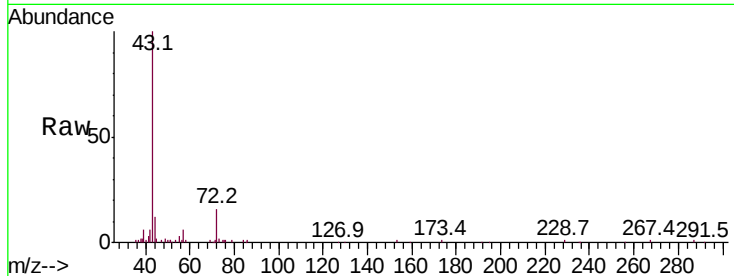
Ion Ratio Lower Upper

43 100

72 22.9 17.0 25.6

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#35

Carbon Tetrachloride

Concen: 0.049 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. -0.02 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

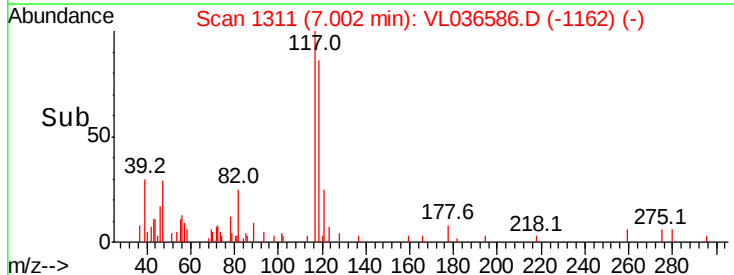
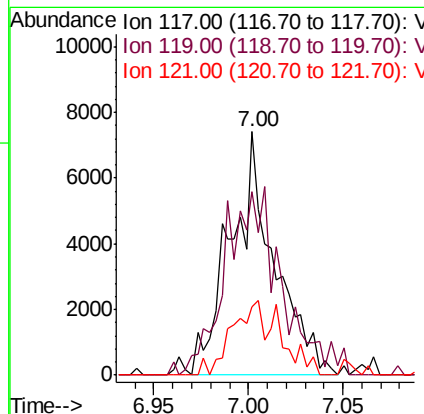
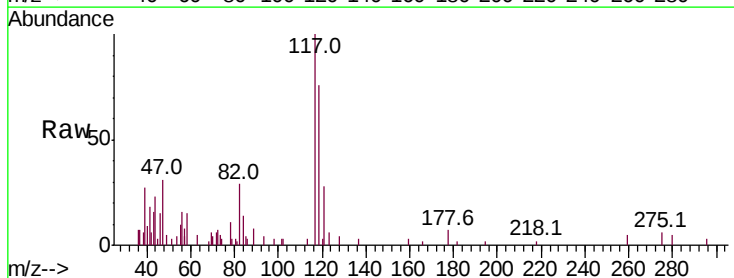
Tgt Ion: 117 Resp: 11981

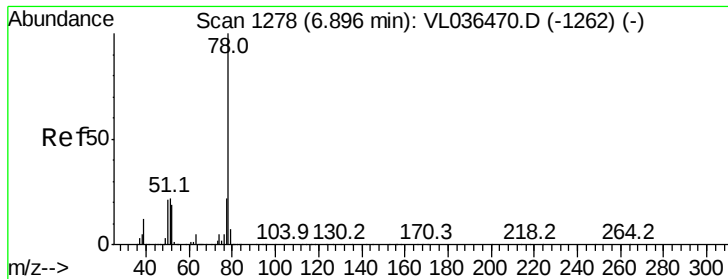
Ion Ratio Lower Upper

117 100

119 75.5 78.2 117.2#

121 27.8 24.5 36.7





#36

Benzene

Concen: 0.174 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Instrument :

MSVOA_L

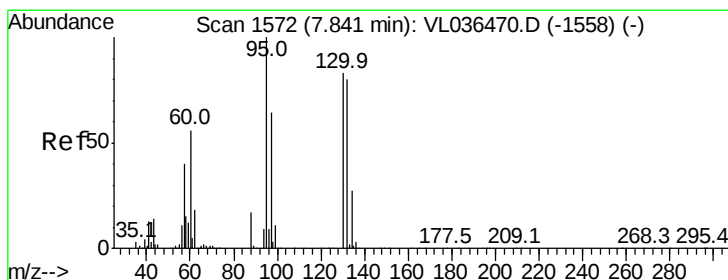
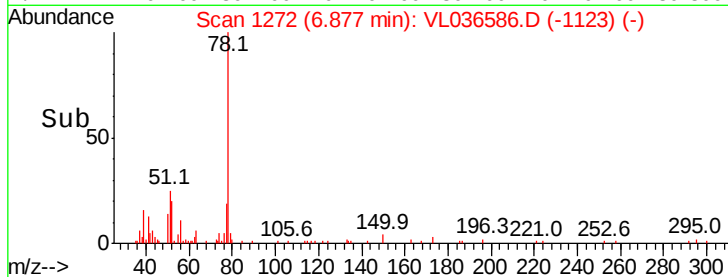
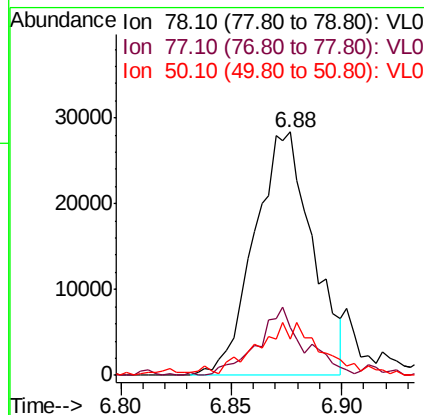
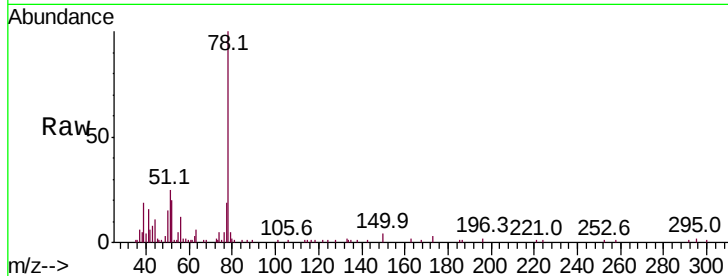
ClientSampleId :

MF-SG-13(2021)DUP

Tot Ion:	78	Resp:	51699
Ion	Ratio	Lower	Upper
78	100		
77	18.4	18.0	27.0
50	13.4	16.5	24.7#

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#40

1,4-Dioxane

Concen: 0.494 ppbv m

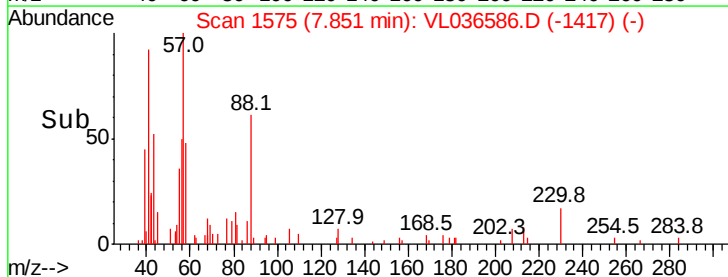
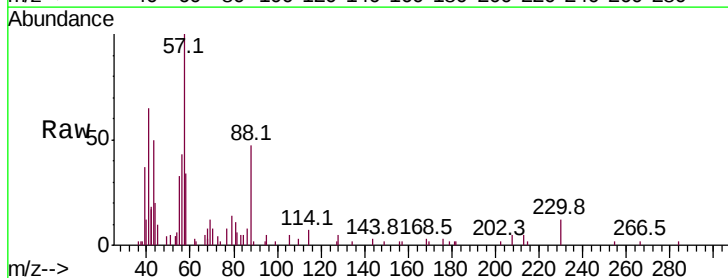
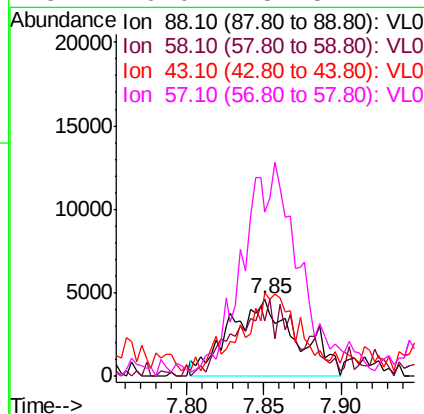
RT: 7.85 min Scan# 1575

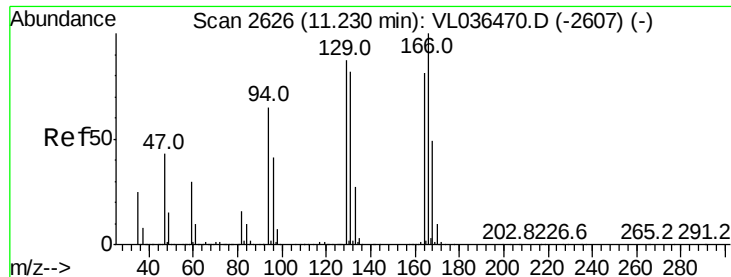
Delta R.T. 0.01 min

Lab File: VL036586.D

Acq: 31 Mar 2021 1:51

Tgt Ion:	88	Resp:	13831
Ion	Ratio	Lower	Upper
88	100		
58	0.0	134.1	201.1#
43	0.0	346.6	520.0#
57	0.0	1481.8	2222.8#





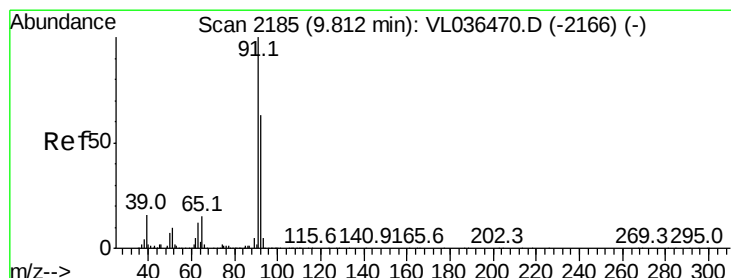
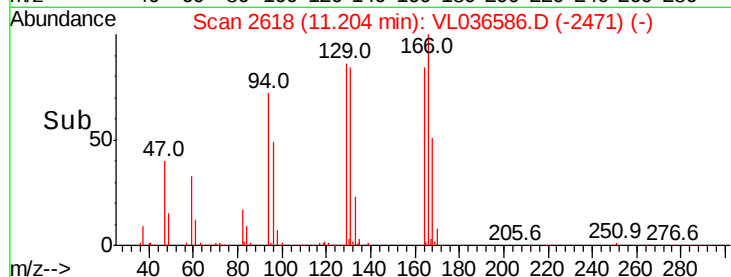
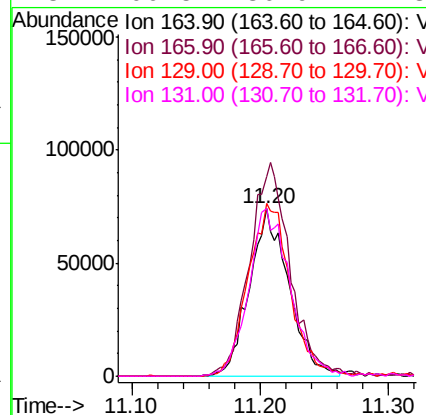
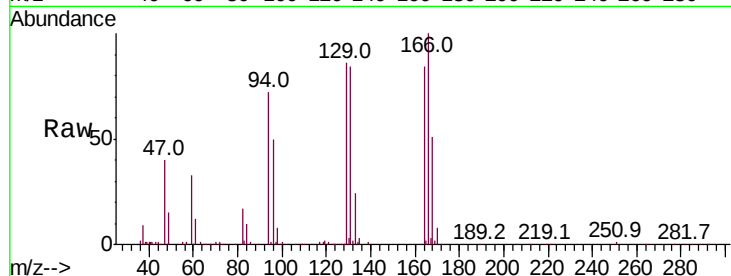
#52
Tetrachloroethene
Concen: 1.454 ppbv m
RT: 11.20 min Scan# 2618
Delta R.T. -0.03 min
Lab File: VL036586.D
Acq: 31 Mar 2021 1:51

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)DUP

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
166	119.6	98.3	147.5	
129	103.0	85.8	128.8	
131	100.5	80.9	121.3	

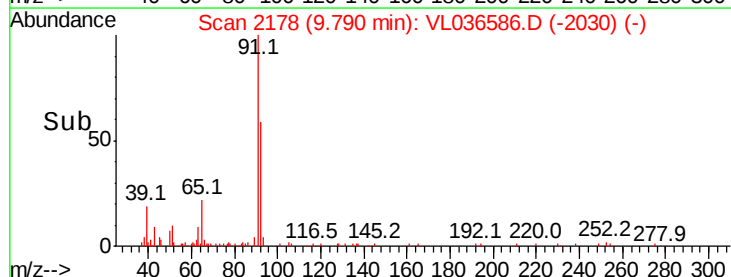
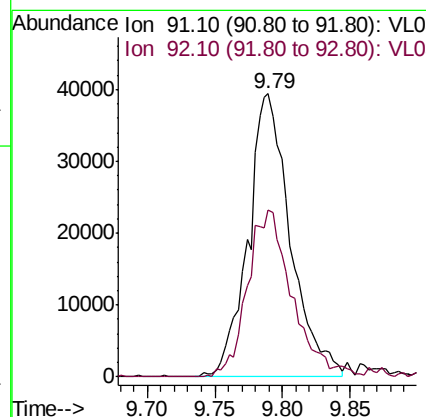
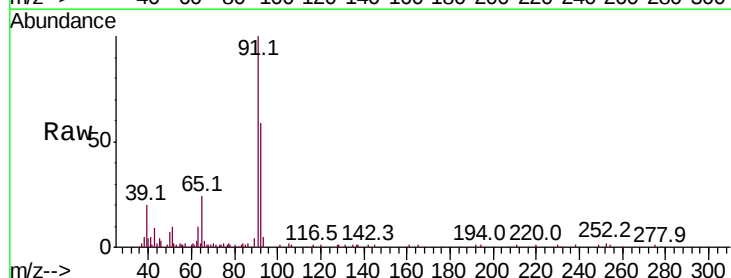
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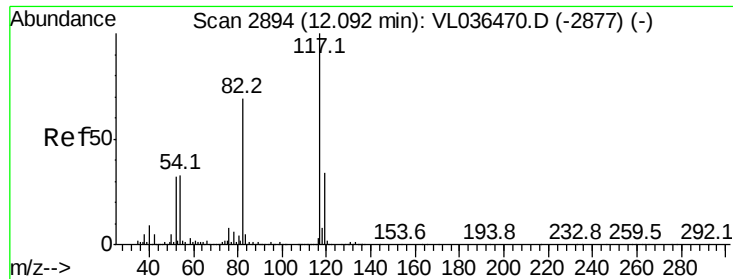
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#53
Toluene
Concen: 0.271 ppbv m
RT: 9.79 min Scan# 2178
Delta R.T. -0.02 min
Lab File: VL036586.D
Acq: 31 Mar 2021 1:51

Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
92	63.9	48.8	73.2	





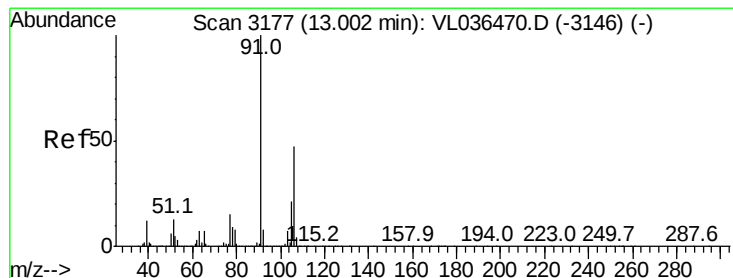
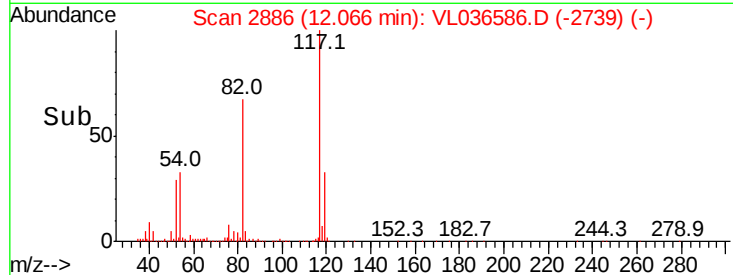
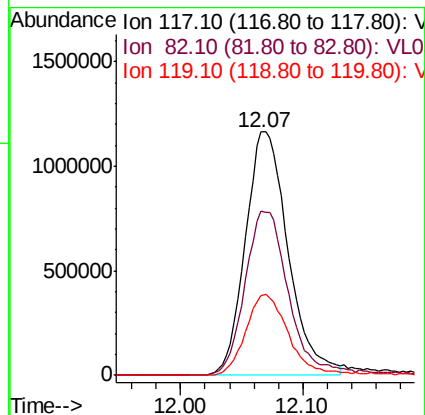
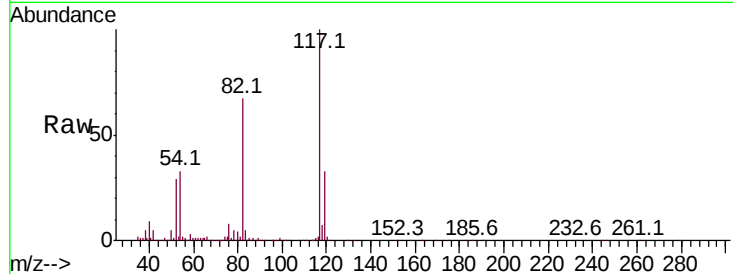
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.03 min
Lab File: VL036586.D
Acq: 31 Mar 2021 1:51

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.5	57.4	86.0
119	34.5	47.4	71.0#

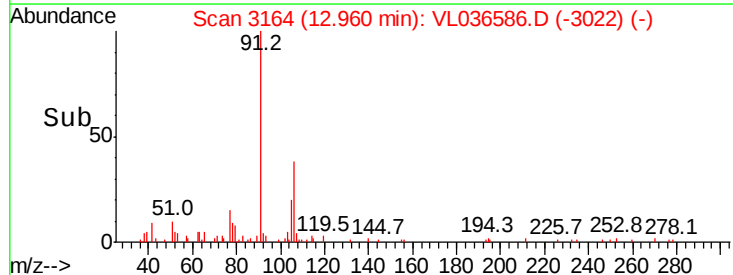
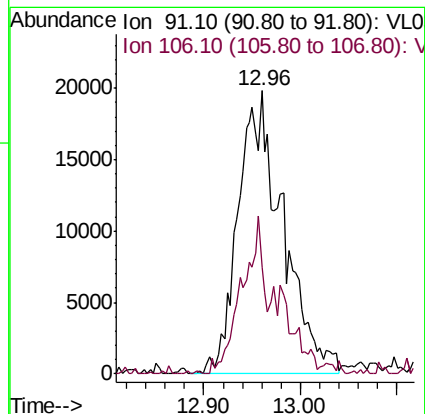
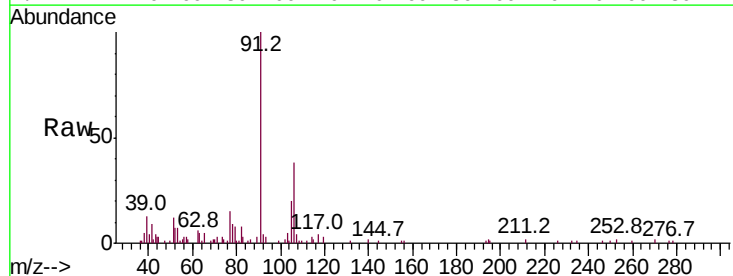
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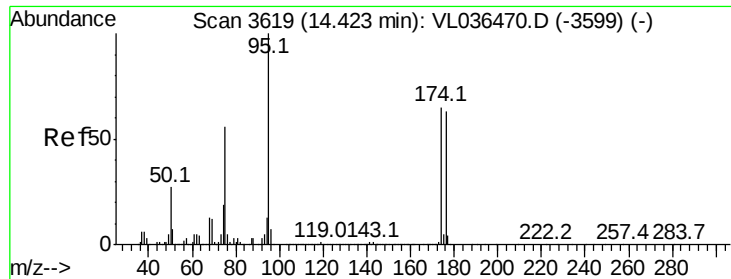
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#59
m/p-Xylene
Concen: 0.177 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL036586.D
Acq: 31 Mar 2021 1:51

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





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.200 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.03 min
 Lab File: VL036586.D
 Acq: 31 Mar 2021 1:51

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-13(2021)DUP

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.1	51.0	76.6
175	4.6	3.9	5.9

Manual Integrations
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