

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036572.D
 Acq On : 30 Mar 2021 16:42
 Operator : SY/AP
 Sample : M1797-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-04(2021)

Manual Integrations
 APPROVED

MMDadoda
 4/1/2021 10:58:31 AM

Quant Time: Mar 31 16:59:20 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	1471554	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3532440	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3200071	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2619799	10.27	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	55969	0.233	ppbv	90
3) Chlorodifluoromethane	2.97	51	61561m	0.224	ppbv	
4) Chloromethane	3.13	50	25714	0.265	ppbv #	87
9) Propene	3.01	41	88554	1.010	ppbv #	82
10) Heptane	8.11	43	33665m	0.151	ppbv	
11) Trichlorofluoromethane	3.93	101	52543	0.215	ppbv	86
13) Ethanol	3.60	45	3990307	382.300	ppbv	93
15) Acetone	3.84	43	2098924	14.492	ppbv	99
17) tert-Butyl alcohol	4.29	59	30843m	0.245	ppbv	
19) Isopropyl Alcohol	3.99	45	348842	4.378	ppbv #	1
20) Methylene Chloride	4.33	84	2074984	30.599	ppbv	98
26) Hexane	5.67	57	3999528	25.029	ppbv #	46
27) Carbon Disulfide	4.53	76	36369	0.231	ppbv #	92
29) Chloroform	5.74	83	24873m	0.097	ppbv	
30) Cyclohexane	7.11	84	34091m	0.263	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	25075	0.097	ppbv	90
34) 2-Butanone	5.23	43	98560	0.572	ppbv #	85
35) Carbon Tetrachloride	7.00	117	9446m	0.035	ppbv	
36) Benzene	6.87	78	53127	0.163	ppbv	97
40) 1,4-Dioxane	7.83	88	49273m	1.602	ppbv	
44) 2,2,4-Trimethylpentane	7.84	57	73548m	0.128	ppbv	
52) Tetrachloroethene	11.20	164	25158m	0.210	ppbv	
53) Toluene	9.79	91	193248	0.557	ppbv	98
58) Ethyl Benzene	12.69	91	164693	0.354	ppbv	91
59) m/p-Xylene	12.94	91	579610m	1.427	ppbv	
60) o-Xylene	13.67	91	188932	0.481	ppbv	95
69) p-Isopropyltoluene	17.64	119	113608m	0.225	ppbv	
72) 4-Ethyltoluene	15.82	105	44230m	0.103	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	42217m	0.105	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	147768	0.344	ppbv #	64

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

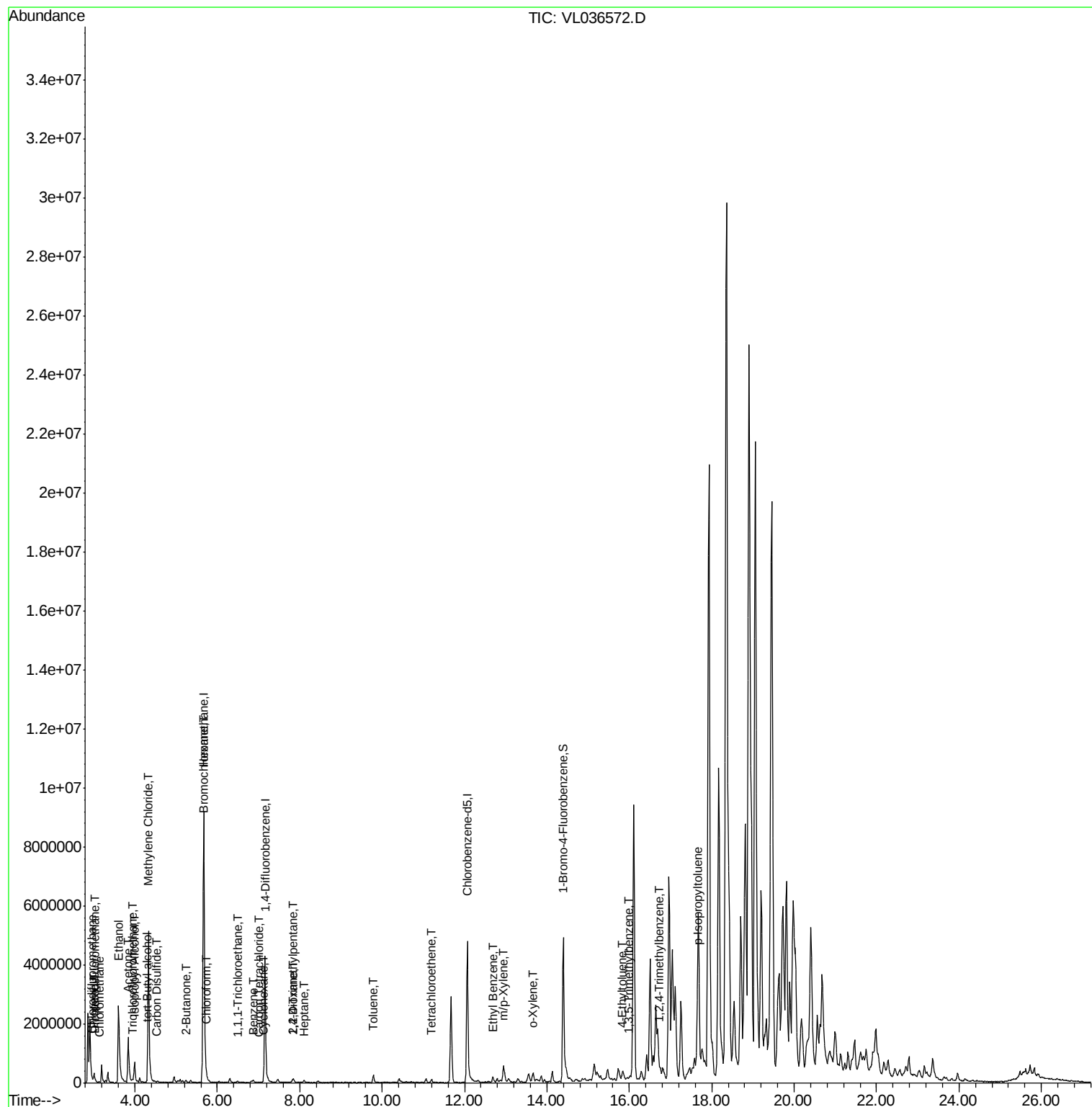
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
Data File : VL036572.D
Acq On : 30 Mar 2021 16:42
Operator : SY/AP
Sample : M1797-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

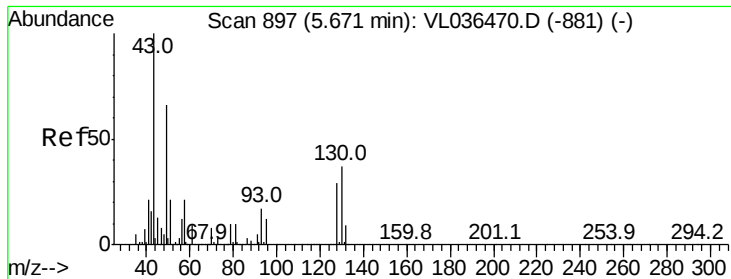
Instrument :
MSVOA_L
ClientSampleId :
MF-SG-04(2021)

Manual Integrations
APPROVED

MMDadoda
4/1/2021 10:58:31 AM

Quant Time: Mar 31 16:59:20 2021
Quant Method : Z:\VOASRV\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# 890

Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion: 49 Resp: 1471554

Ion Ratio Lower Upper

49 100

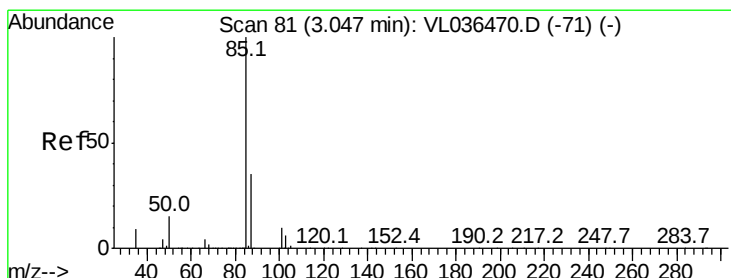
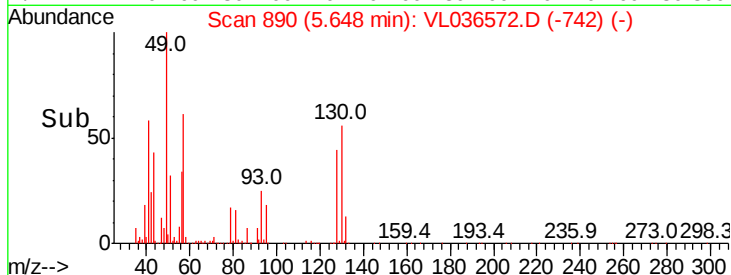
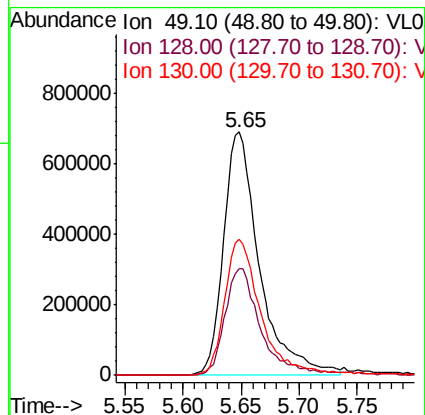
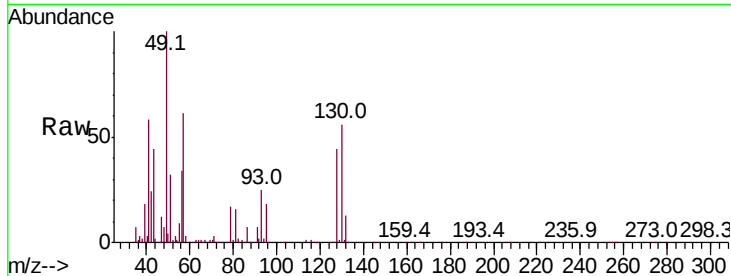
128 44.9 23.5 70.6

130 58.6 29.1 87.4

Manual Integrations
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4/1/2021 10:58:31 AM



#2

Dichlorodifluoromethane

Concen: 0.233 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036572.D

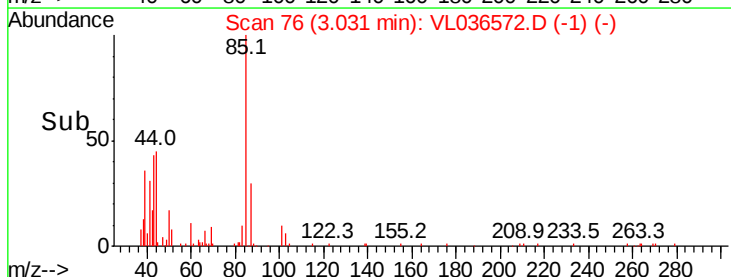
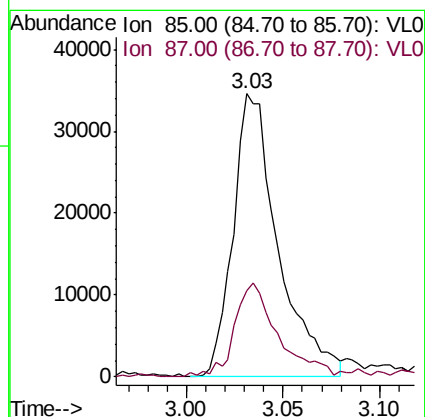
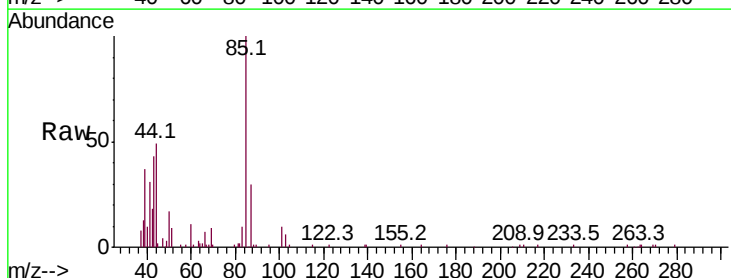
Acq: 30 Mar 2021 16:42

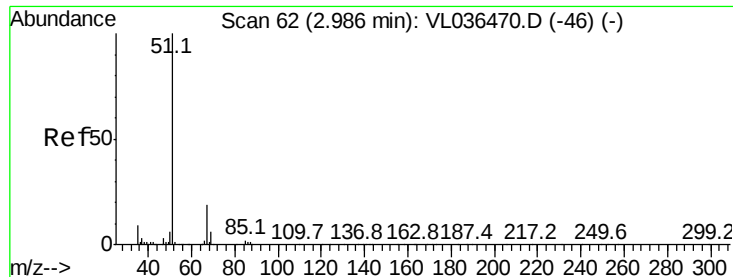
Tgt Ion: 85 Resp: 55969

Ion Ratio Lower Upper

85 100

87 28.9 27.8 41.8





#3

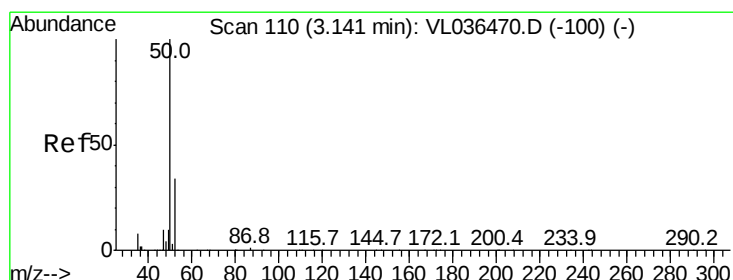
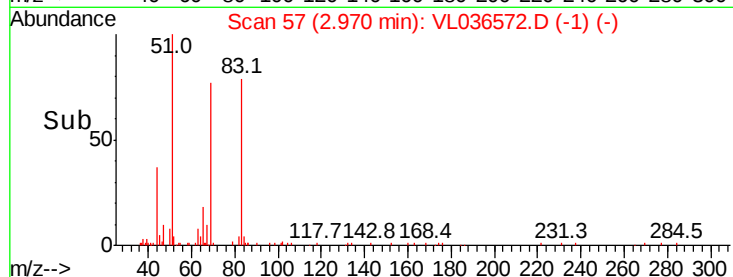
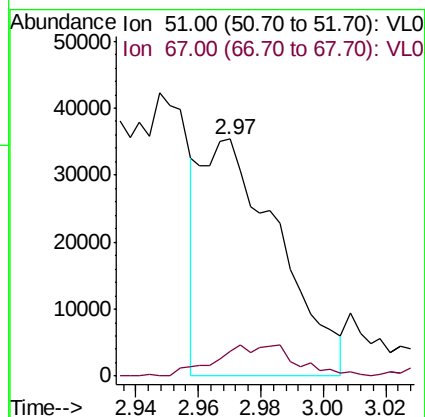
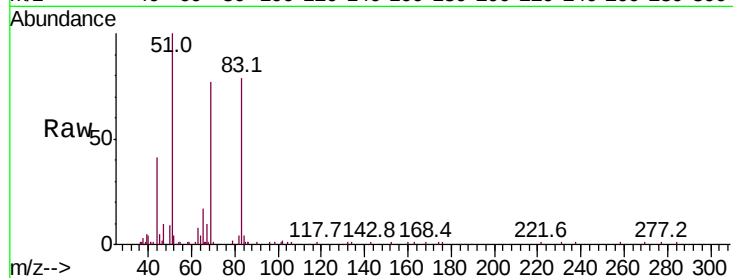
Chlorodifluoromethane
Concen: 0.224 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.02 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-04(2021)

Tot Ion	Ratio	Lower	Upper
51	100		
67	1.8	14.7	22.1#

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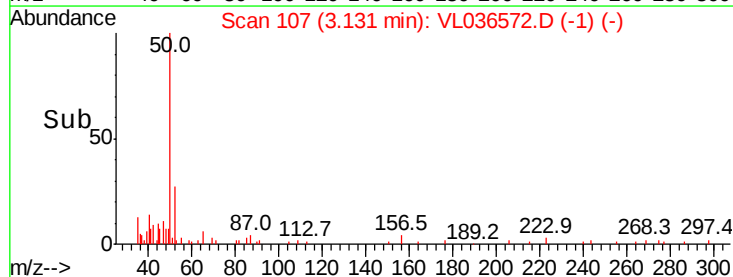
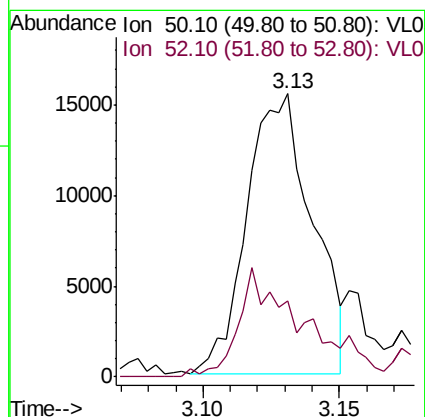
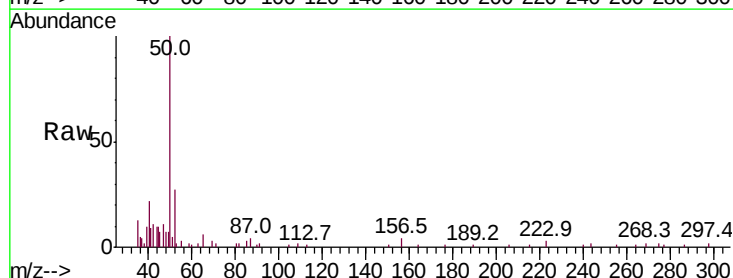
MMDadoda
4/1/2021 10:58:31 AM

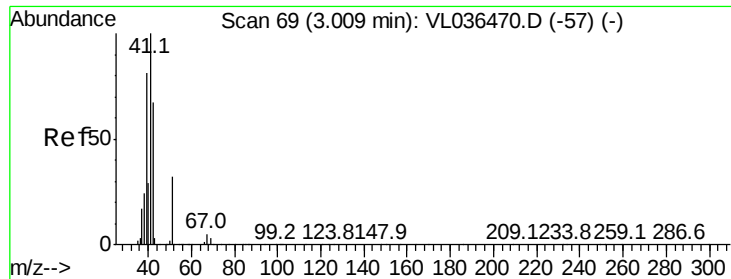


#4

Chloromethane
Concen: 0.265 ppbv
RT: 3.13 min Scan# 107
Delta R.T. -0.01 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Tgt Ion	Ratio	Lower	Upper
50	100		
52	26.6	27.0	40.6#





#9

Propene

Concen: 1.010 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion: 41 Resp: 88554

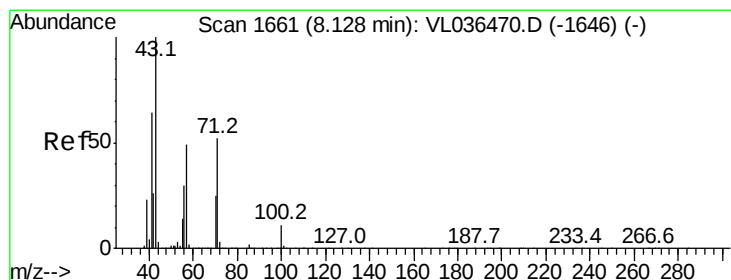
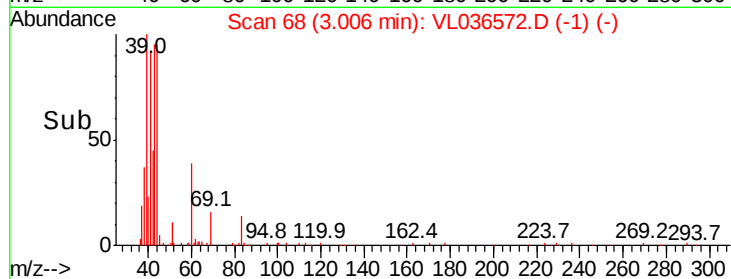
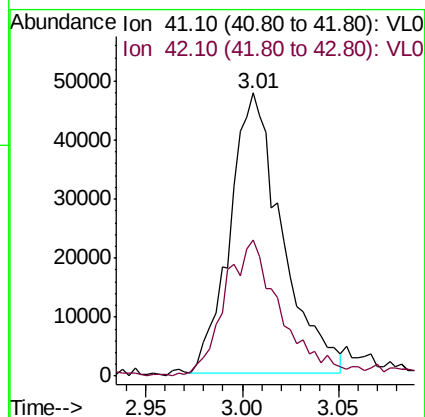
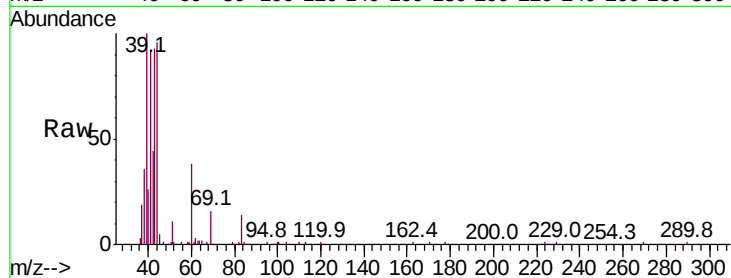
Ion Ratio Lower Upper

41 100

42 56.3 57.0 85.4#

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#10

Heptane

Concen: 0.151 ppbv m

RT: 8.11 min Scan# 1655

Delta R.T. -0.02 min

Lab File: VL036572.D

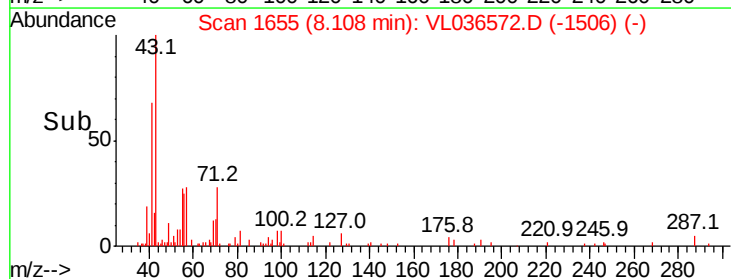
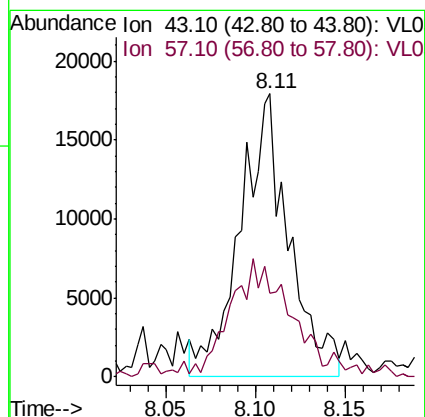
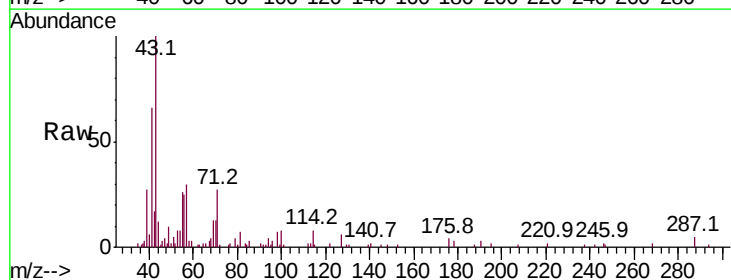
Acq: 30 Mar 2021 16:42

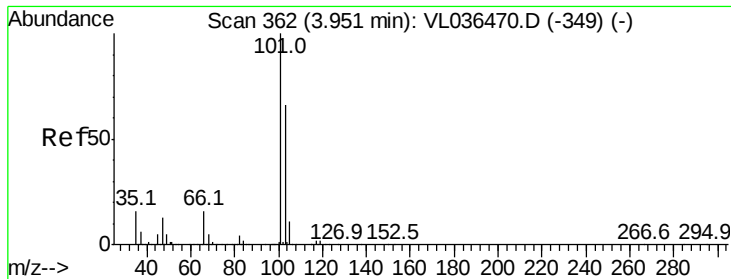
Tgt Ion: 43 Resp: 33665

Ion Ratio Lower Upper

43 100

57 57.0 39.0 58.6





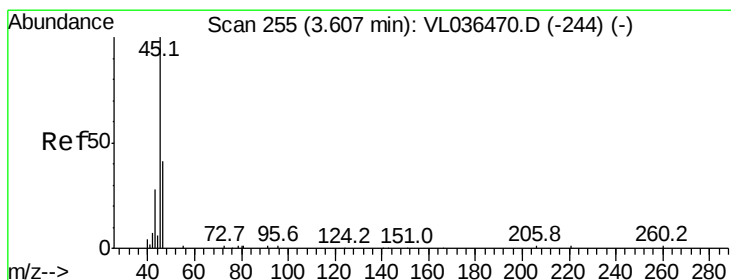
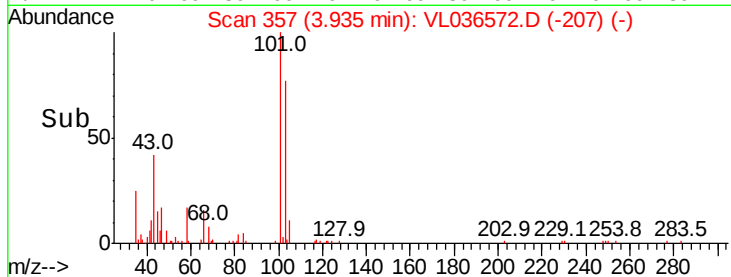
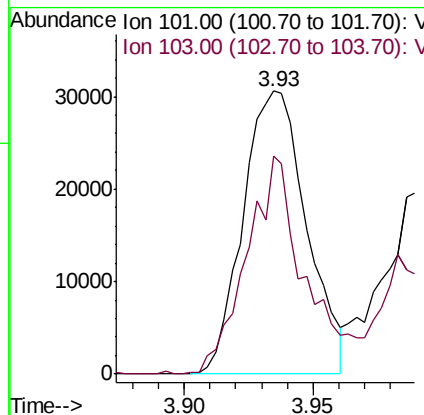
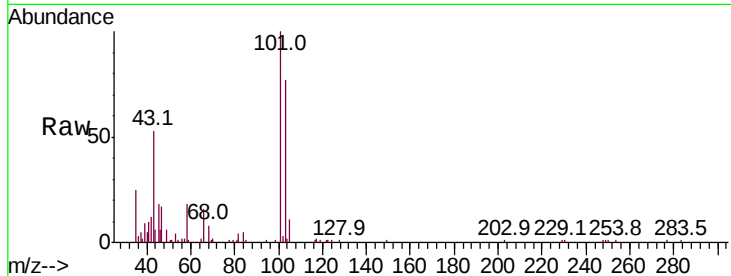
#11
Trichlorofluoromethane
Concen: 0.215 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.02 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-04(2021)

Tot Ion:101 Resp: 52543
Ion Ratio Lower Upper
101 100
103 76.5 52.5 78.7

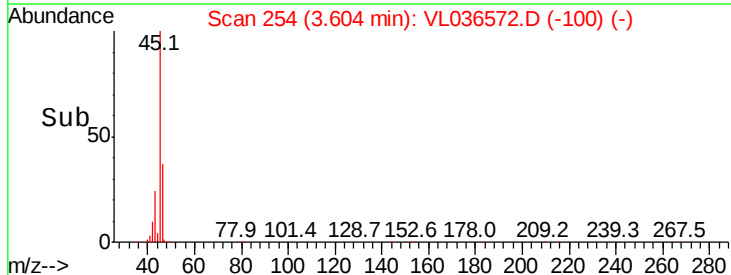
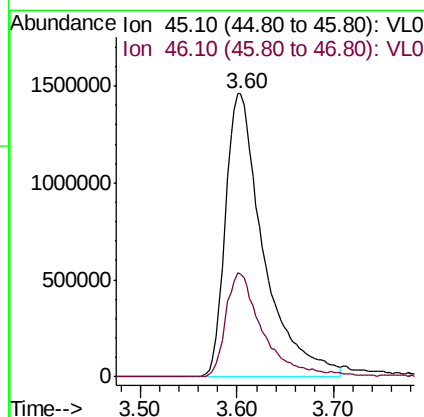
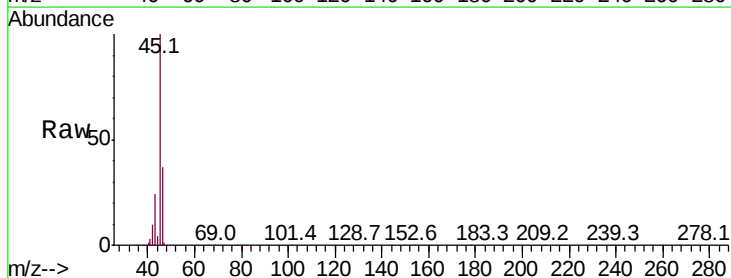
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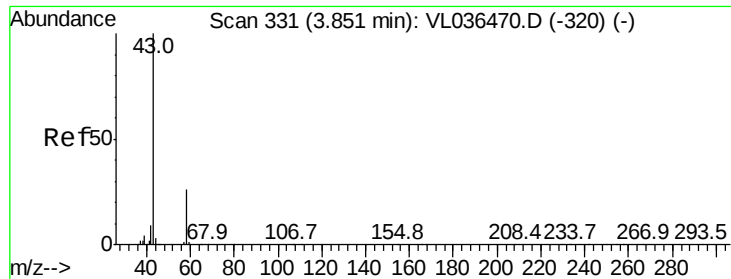
MMDadoda
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#13
Ethanol
Concen: 382.300 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Tgt Ion: 45 Resp: 3990307
Ion Ratio Lower Upper
45 100
46 36.9 16.6 66.2





#15

Acetone

Concen: 14.492 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion: 43 Resp: 2098924

Ion Ratio Lower Upper

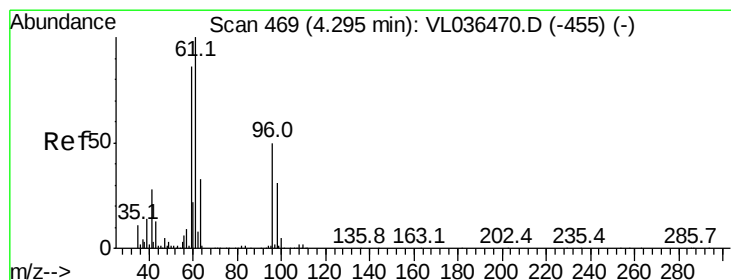
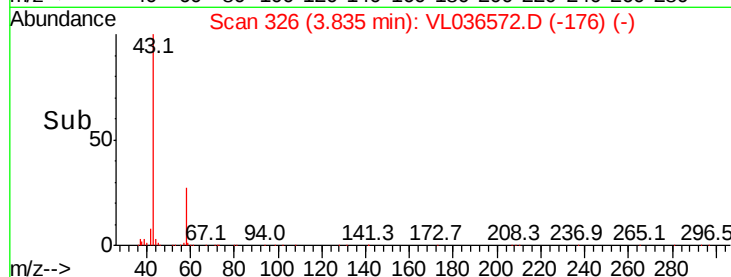
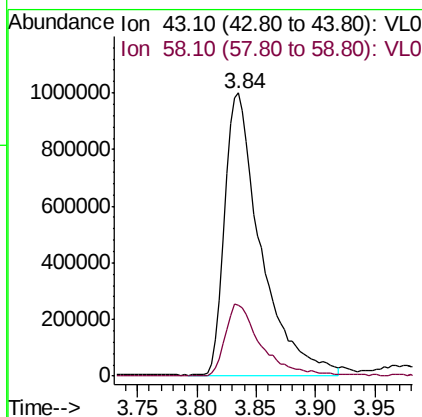
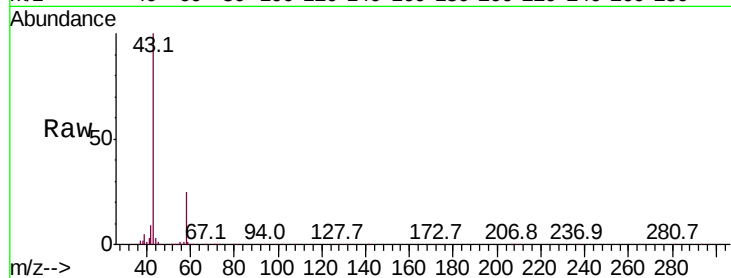
43 100

58 25.8 21.2 31.8

Manual Integrations
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4/1/2021 10:58:31 AM



#17

tert-Butyl alcohol

Concen: 0.245 ppbv m

RT: 4.29 min Scan# 469

Delta R.T. -0.00 min

Lab File: VL036572.D

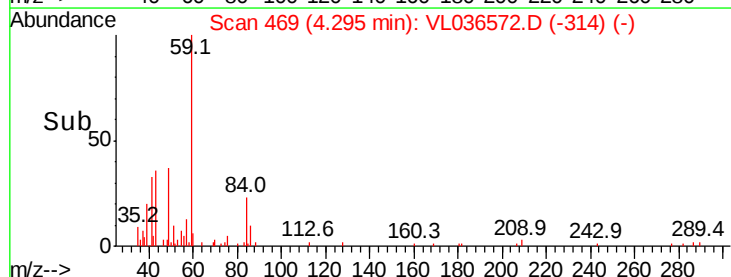
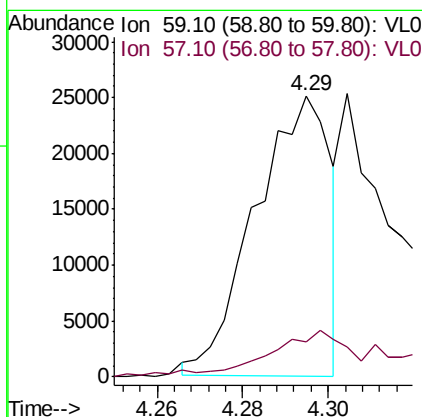
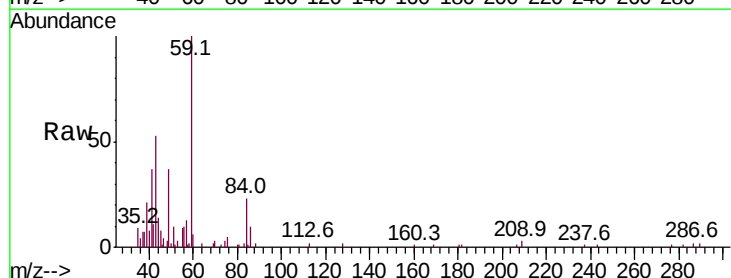
Acq: 30 Mar 2021 16:42

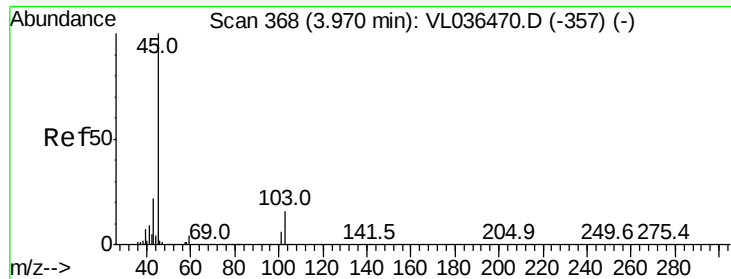
Tgt Ion: 59 Resp: 30843

Ion Ratio Lower Upper

59 100

57 33.1 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 4.378 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion: 45 Resp: 348842

Ion Ratio Lower Upper

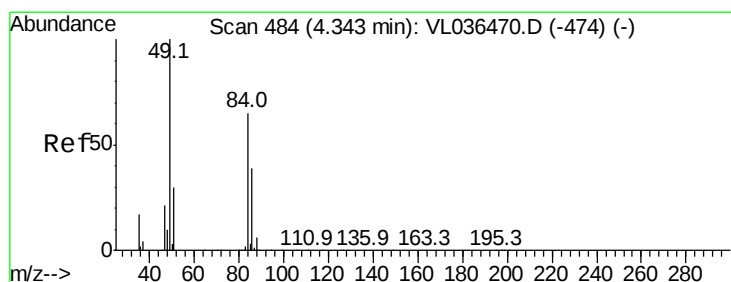
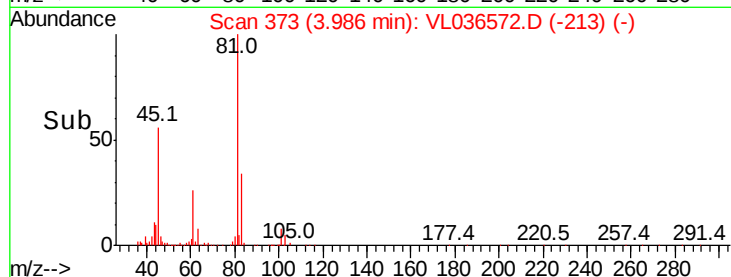
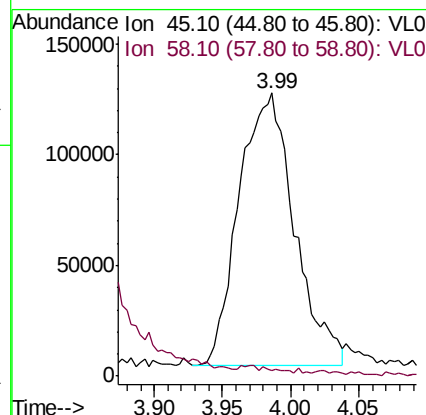
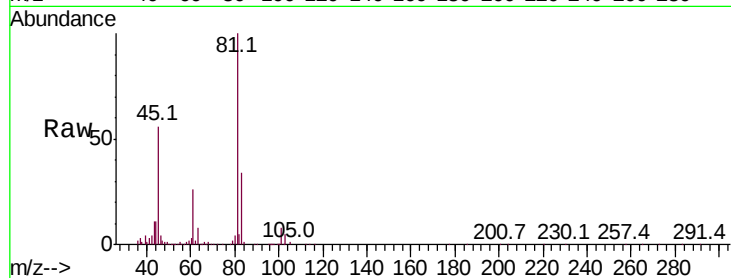
45 100

58 160.4 2.9 4.3#

Manual Integrations
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4/1/2021 10:58:31 AM



#20

Methylene Chloride

Concen: 30.599 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Tgt Ion: 84 Resp: 2074984

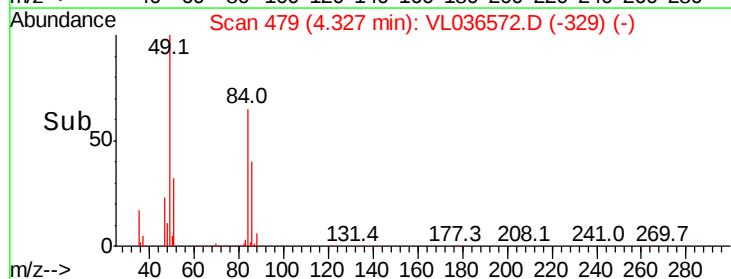
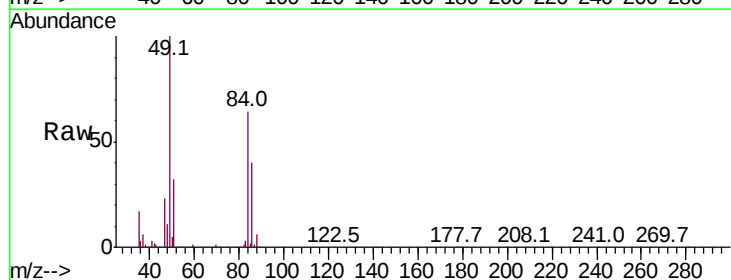
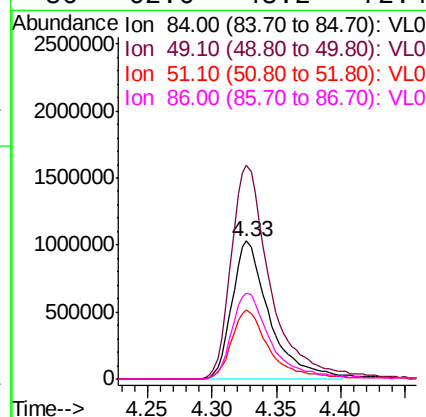
Ion Ratio Lower Upper

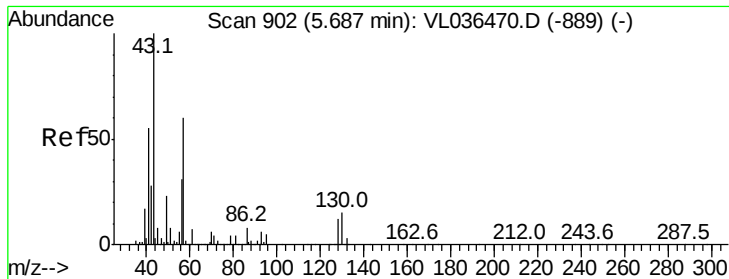
84 100

49 155.0 122.9 184.3

51 50.0 36.9 55.3

86 62.6 48.2 72.4





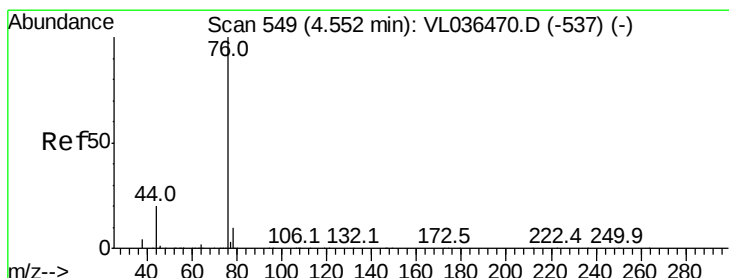
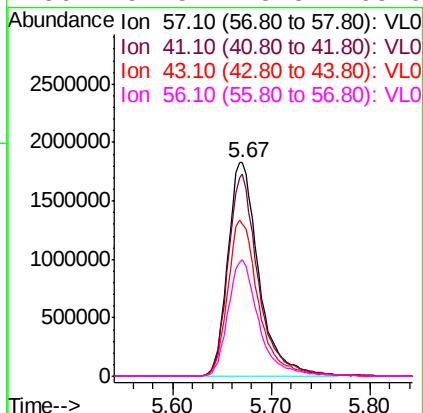
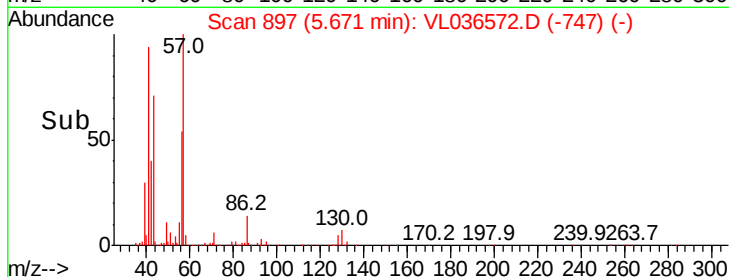
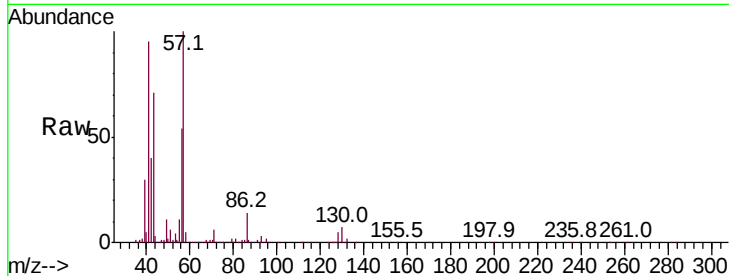
#26
Hexane
Concen: 25.029 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-04(2021)

Tot Ion	57	Resp	3999528
Ion	Ratio	Lower	Upper
57	100		
41	93.8	77.2	115.8
43	73.4	173.8	260.6#
56	54.5	43.8	65.6

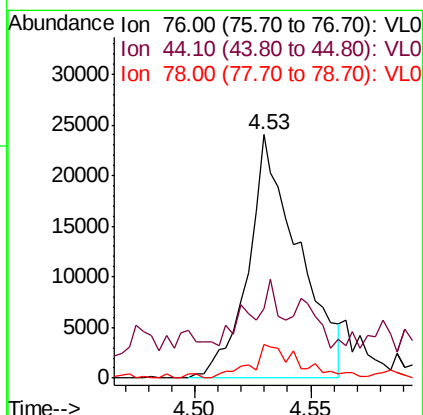
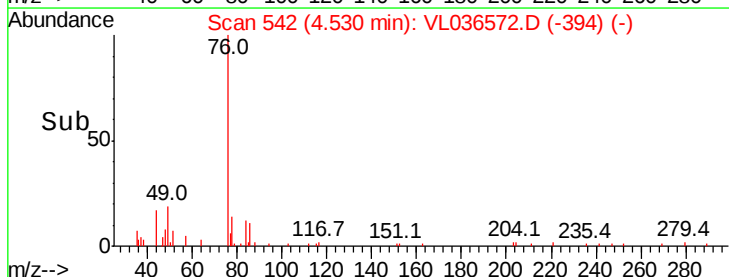
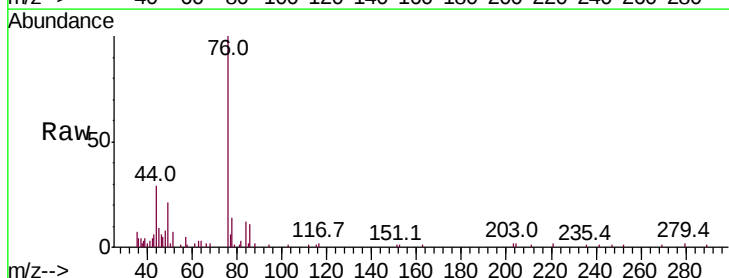
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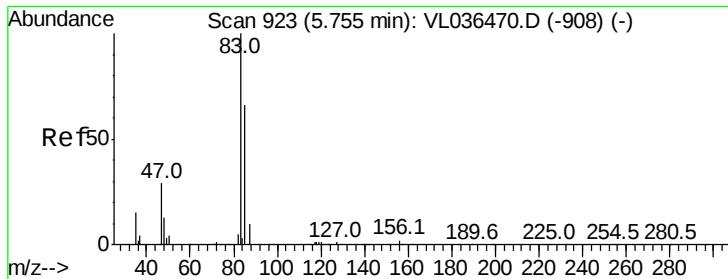
MMDadoda
4/1/2021 10:58:31 AM



#27
Carbon Disulfide
Concen: 0.231 ppbv
RT: 4.53 min Scan# 542
Delta R.T. -0.02 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Tgt Ion	76	Resp	36369
Ion	Ratio	Lower	Upper
76	100		
44	25.4	17.5	26.3
78	14.9	8.6	13.0#





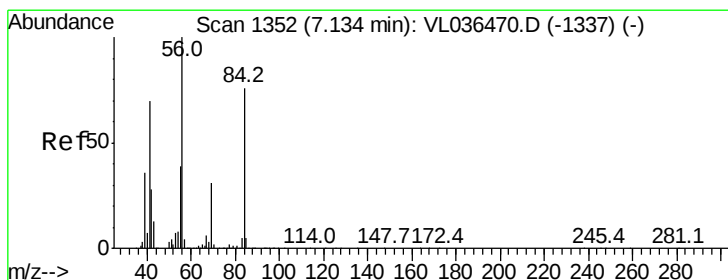
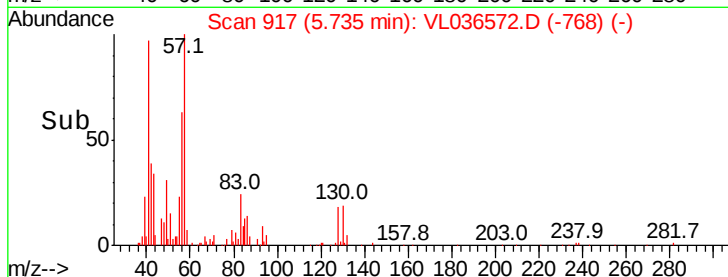
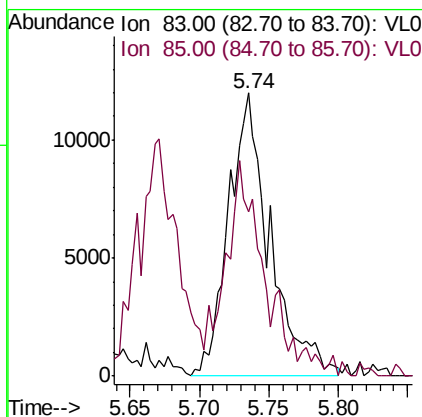
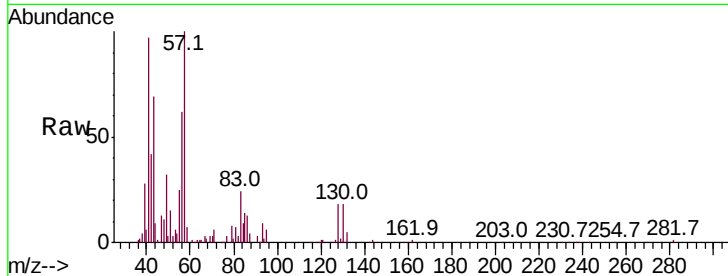
#29
Chloroform
Concen: 0.097 ppbv m
RT: 5.74 min Scan# 917
Delta R.T. -0.02 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-04(2021)

Tot Ion	Ratio	Lower	Upper
83	100		
85	58.0	52.6	78.8

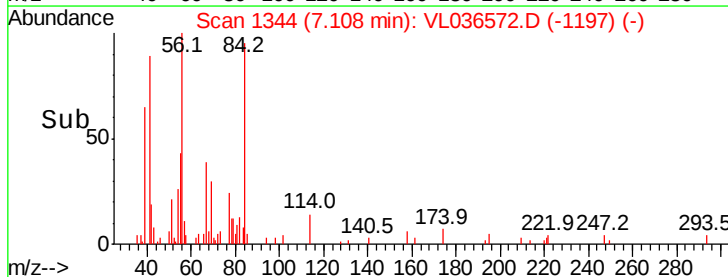
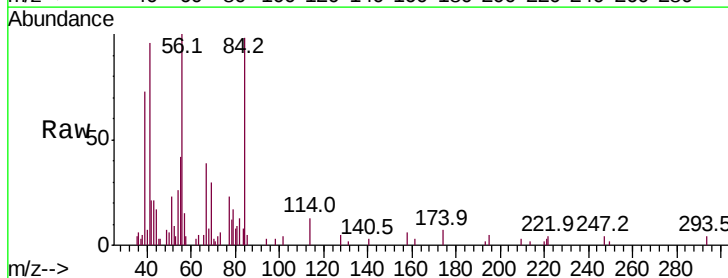
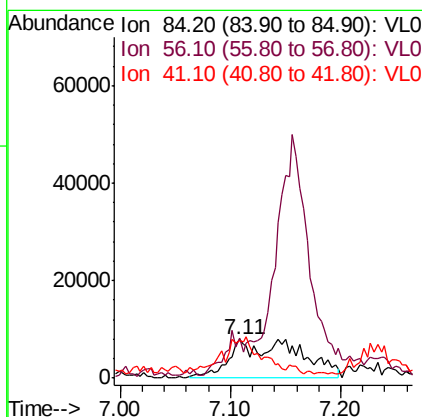
Manual Integrations
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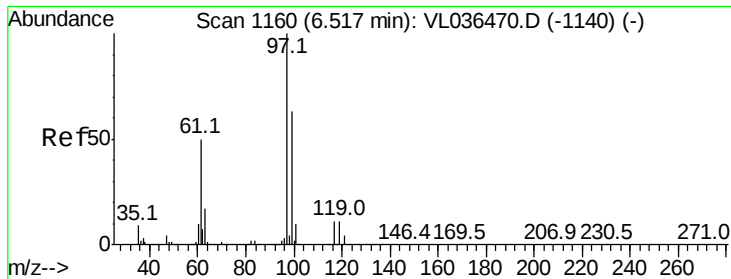
MMDadoda
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#30
Cyclohexane
Concen: 0.263 ppbv m
RT: 7.11 min Scan# 1344
Delta R.T. -0.03 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	67.1	75.3	112.9#





#32

1,1,1-Trichloroethane

Concen: 0.097 ppbv

RT: 6.49 min Scan# 1153

Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

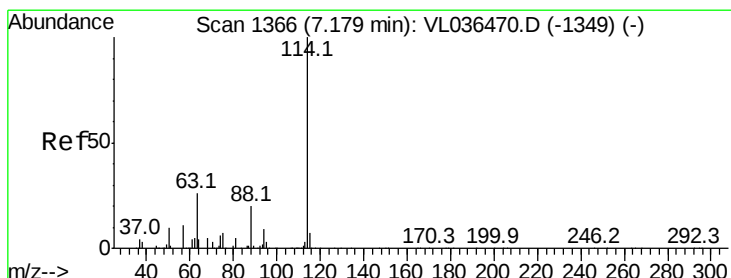
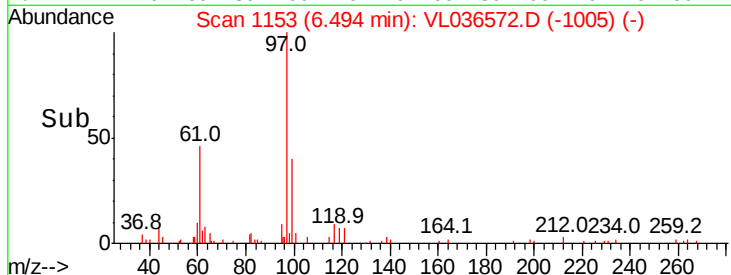
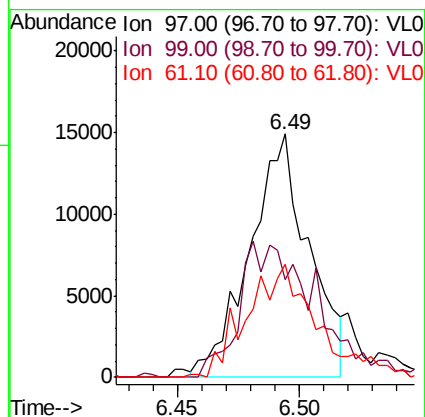
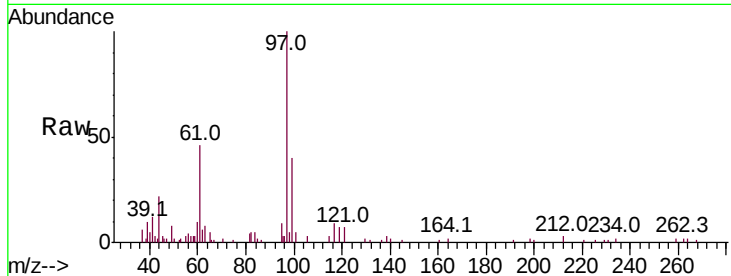
ClientSampleId :

MF-SG-04(2021)

Tot Ion	Ratio	Lower	Upper
97	100		
99	73.9	51.4	77.0
61	55.4	40.6	60.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

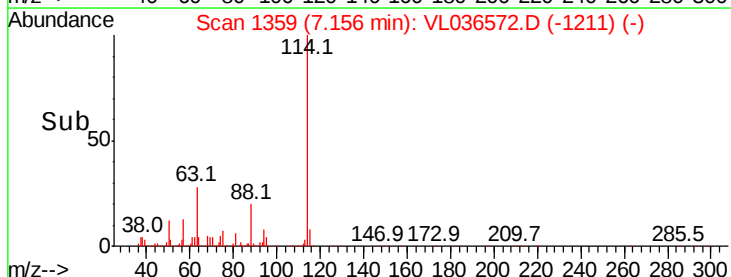
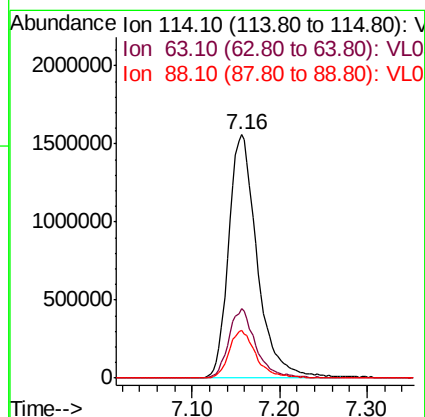
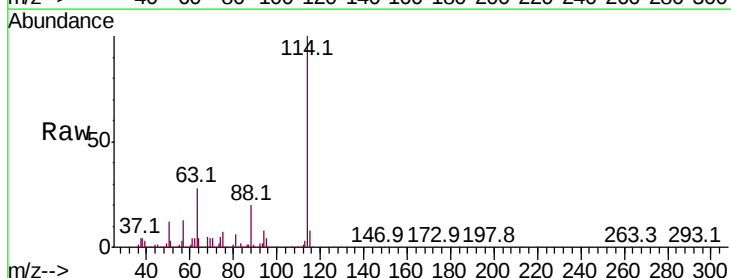
RT: 7.16 min Scan# 1359

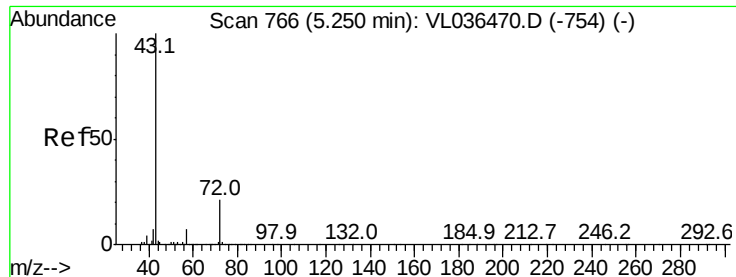
Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.4	33.6
88	18.7	15.4	23.0





#34

2-Butanone

Concen: 0.572 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion: 43 Resp: 98560

Ion Ratio Lower Upper

43 100

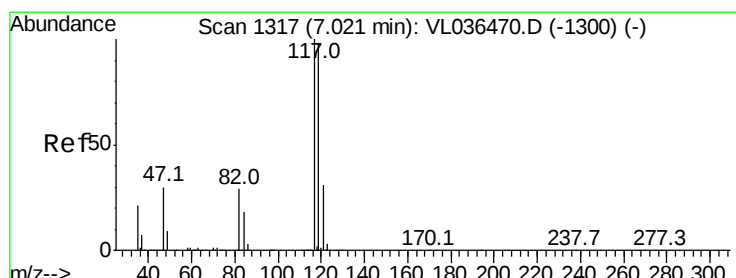
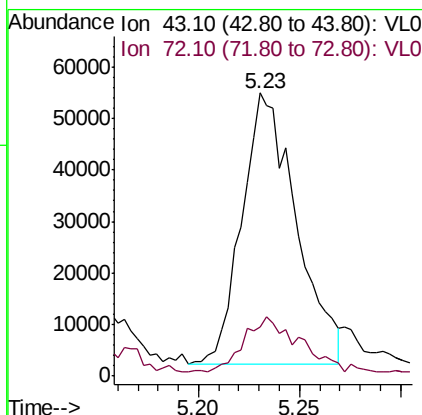
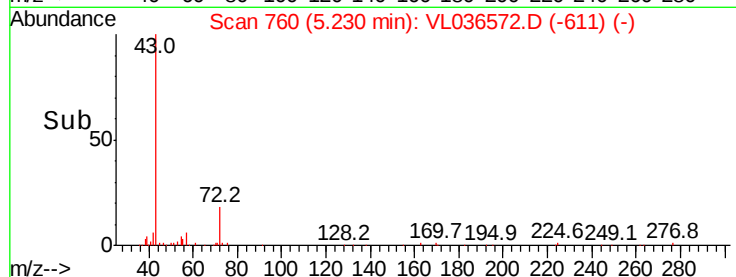
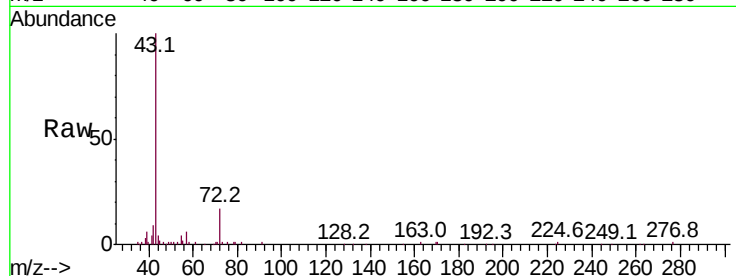
72 28.6 17.0 25.6#

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#35

Carbon Tetrachloride

Concen: 0.035 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

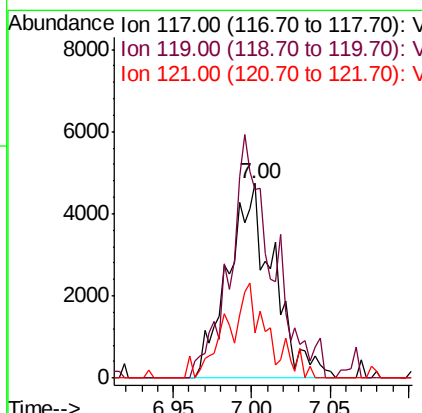
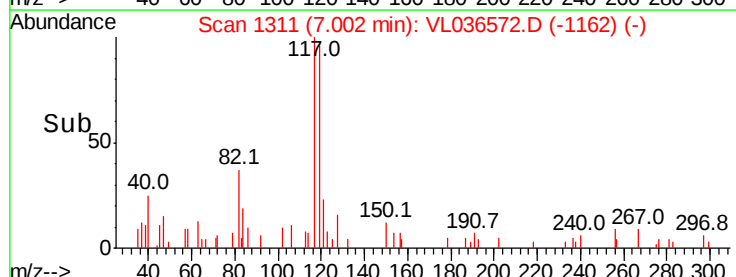
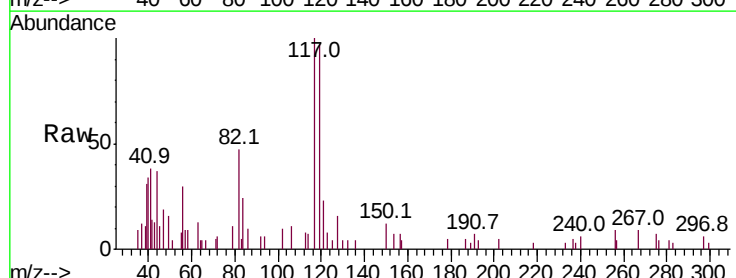
Tgt Ion: 117 Resp: 9446

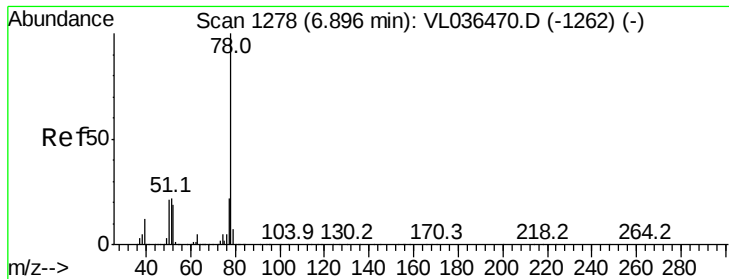
Ion Ratio Lower Upper

117 100

119 97.0 78.2 117.2

121 23.1 24.5 36.7#





#36

Benzene

Concen: 0.163 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

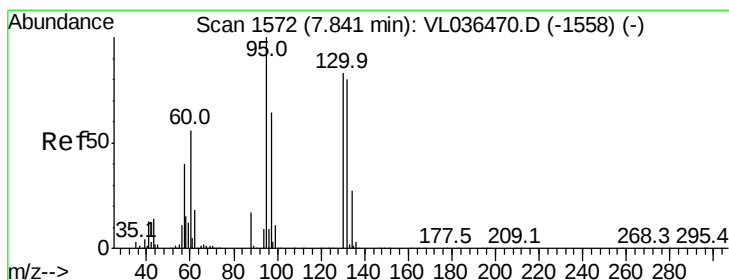
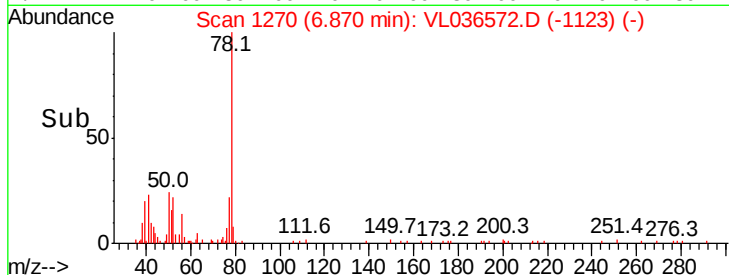
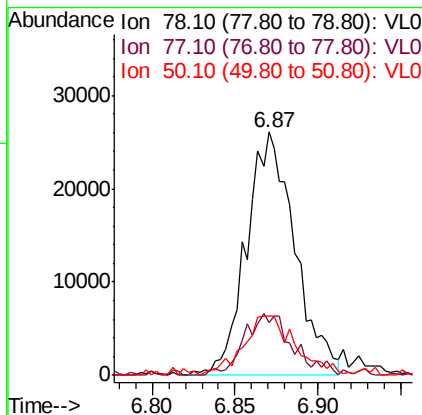
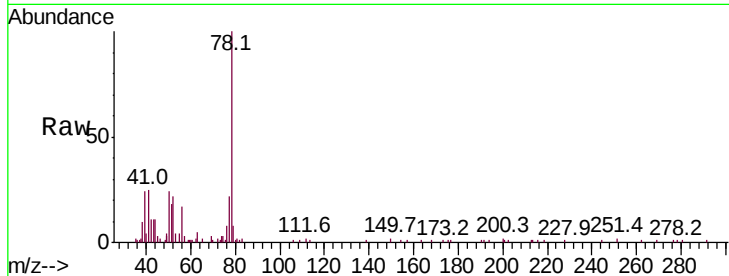
ClientSampleId :

MF-SG-04(2021)

Tot Ion:	78	Resp:	53127
Ion Ratio	Lower	Upper	
78	100		
77	21.9	18.0	27.0
50	22.9	16.5	24.7

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#40

1,4-Dioxane

Concen: 1.602 ppbv m

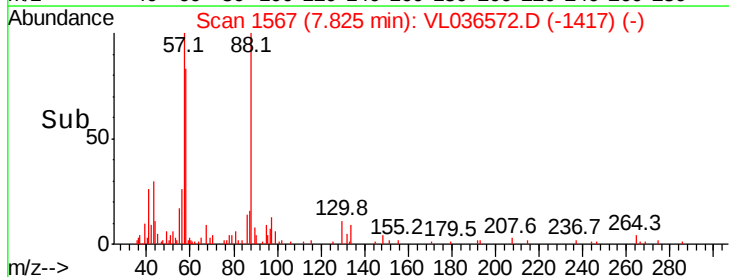
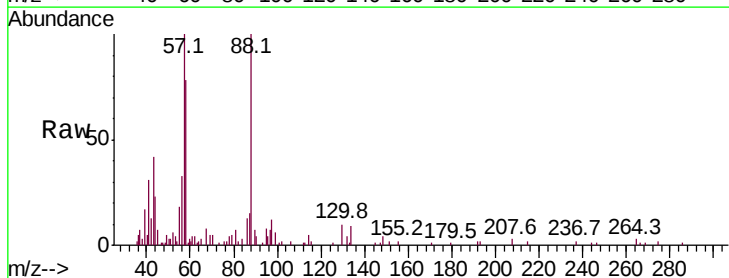
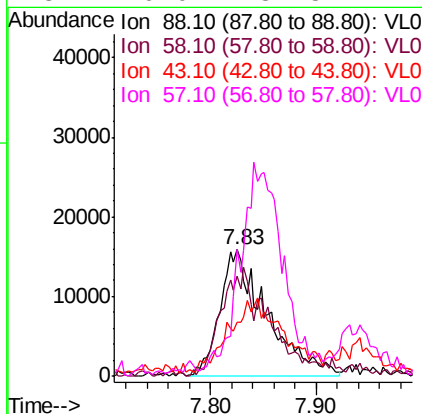
RT: 7.83 min Scan# 1567

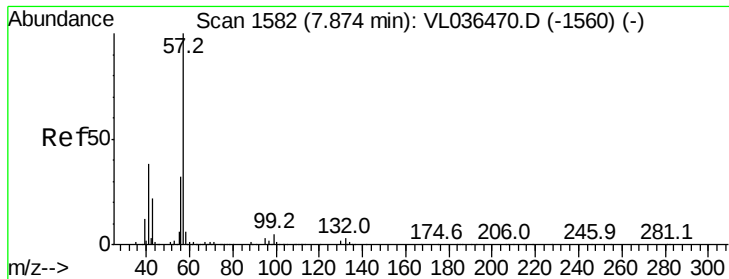
Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Tgt Ion:	88	Resp:	49273
Ion Ratio	Lower	Upper	
88	100		
58	86.2	134.1	201.1#
43	0.0	346.6	520.0#
57	0.0	1481.8	2222.8#





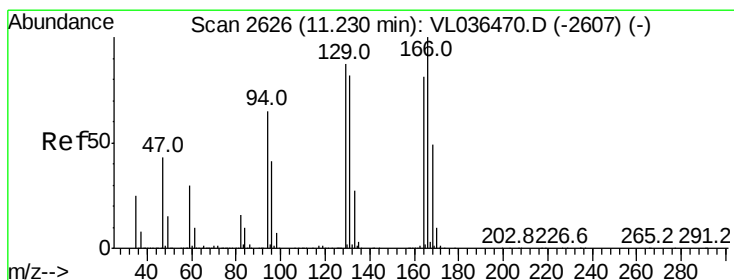
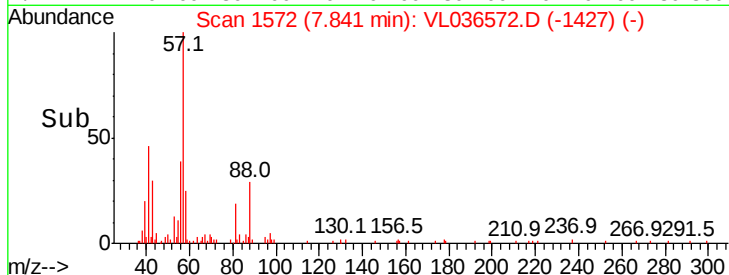
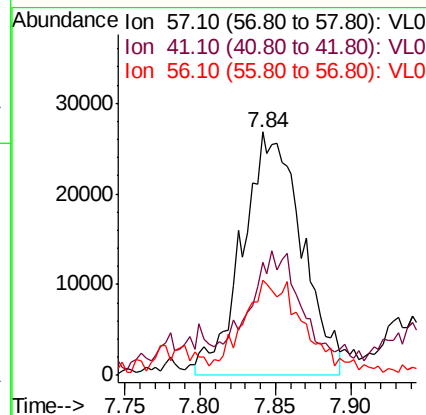
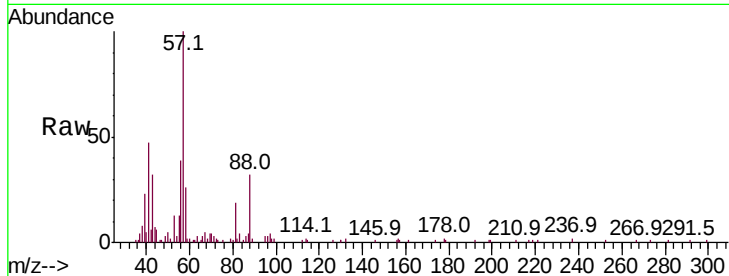
#44
2,2,4-Trimethylpentane
Concen: 0.128 ppbv m
RT: 7.84 min Scan# 1572
Delta R.T. -0.03 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-04(2021)

Tot Ion	Ratio	Lower	Upper
57	100		
41	65.4	28.8	43.2#
56	0.0	26.1	39.1#

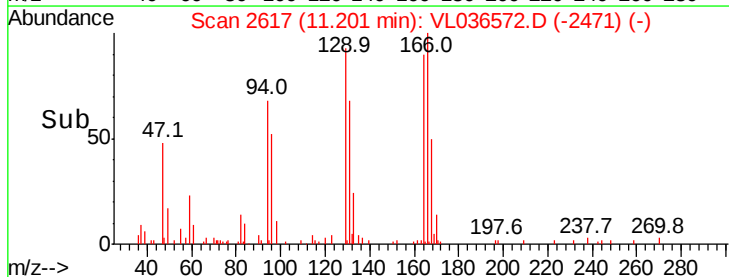
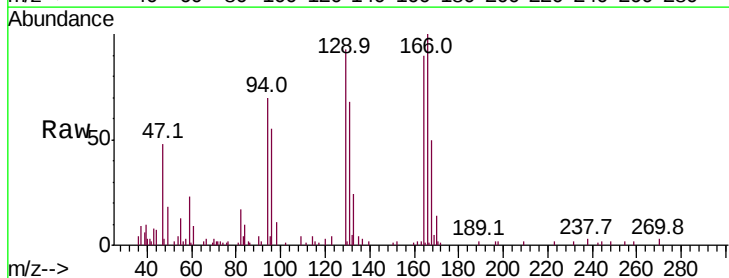
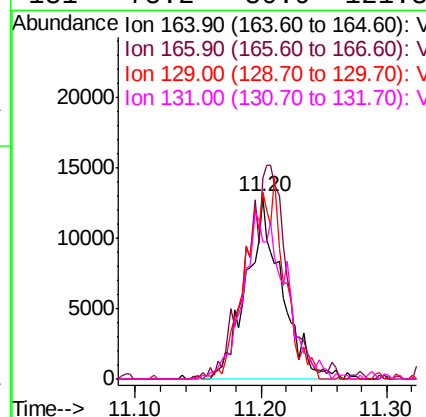
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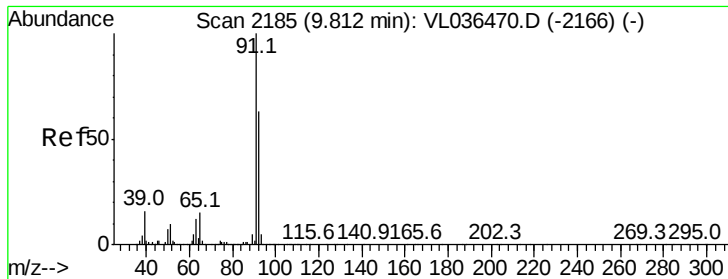
MMDadoda
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#52
Tetrachloroethene
Concen: 0.210 ppbv m
RT: 11.20 min Scan# 2617
Delta R.T. -0.03 min
Lab File: VL036572.D
Acq: 30 Mar 2021 16:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	110.8	98.3	147.5
129	102.5	85.8	128.8
131	75.2	80.9	121.3#





#53

Toluene

Concen: 0.557 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion: 91 Resp: 193248

Ion Ratio Lower Upper

91 100

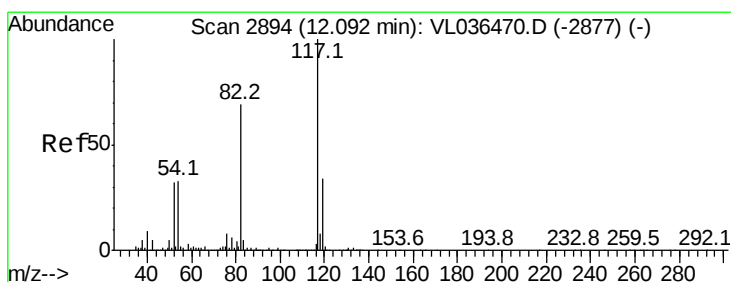
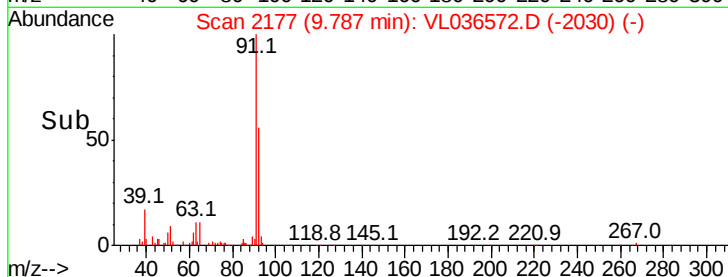
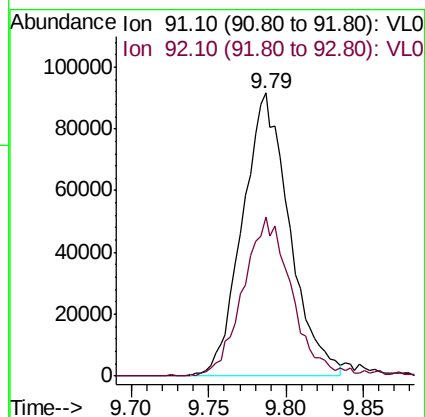
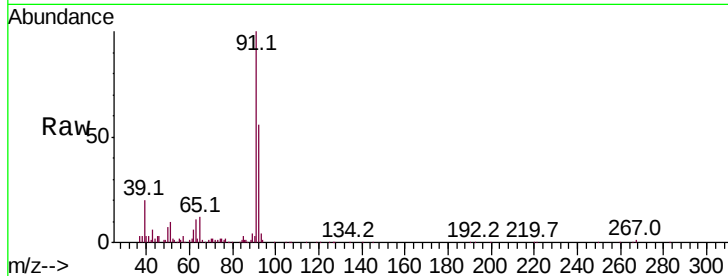
92 59.2 48.8 73.2

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4/1/2021 10:58:31 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.03 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

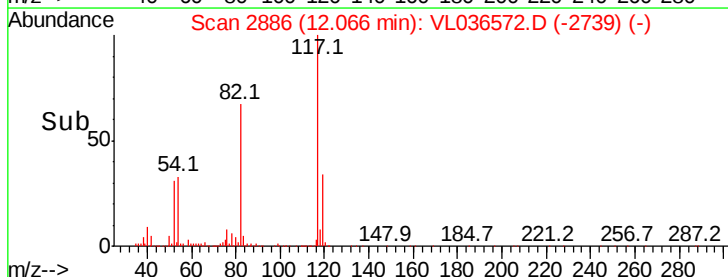
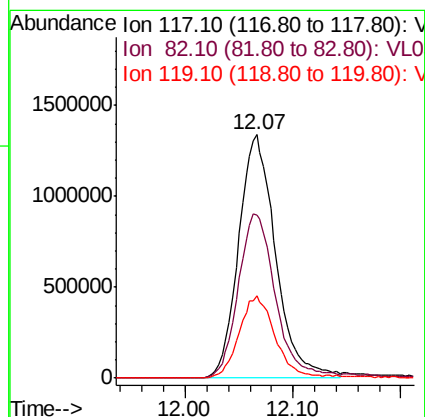
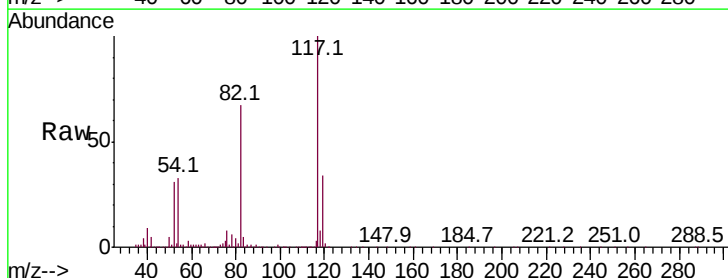
Tgt Ion: 117 Resp: 3200071

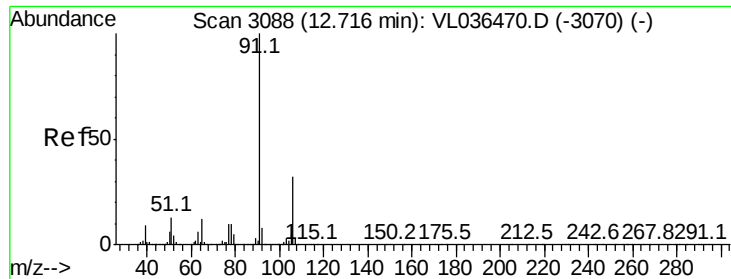
Ion Ratio Lower Upper

117 100

82 70.1 57.4 86.0

119 33.7 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.354 ppbv

RT: 12.69 min Scan# 3081

Delta R.T. -0.02 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion: 91 Resp: 164693

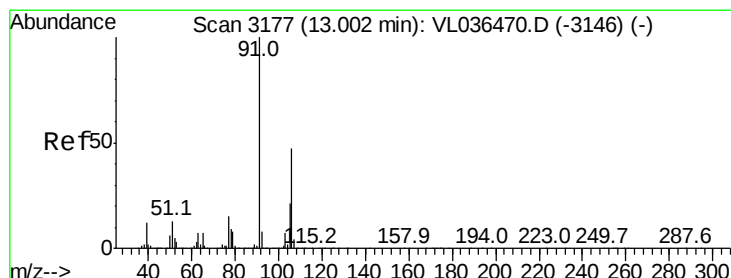
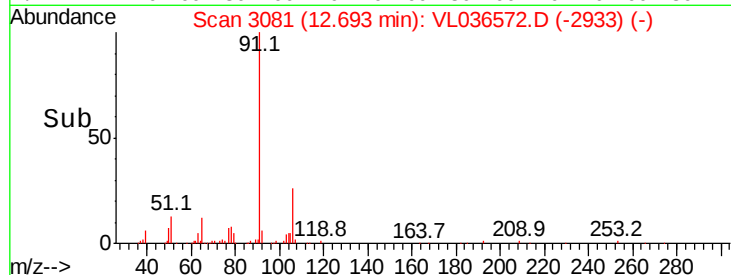
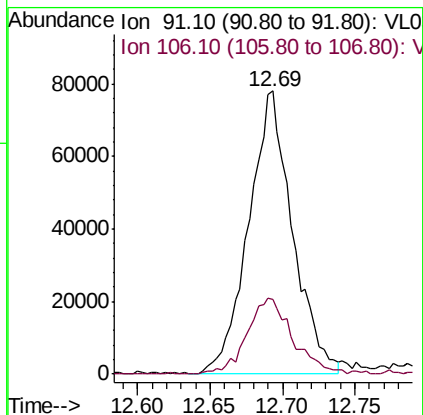
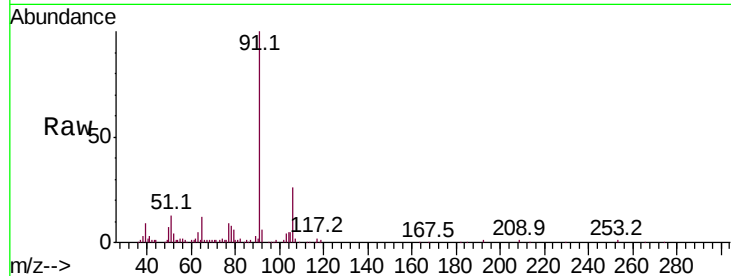
Ion Ratio Lower Upper

91 100

106 26.4 25.3 37.9

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#59

m/p-Xylene

Concen: 1.427 ppbv m

RT: 12.94 min Scan# 3159

Delta R.T. -0.06 min

Lab File: VL036572.D

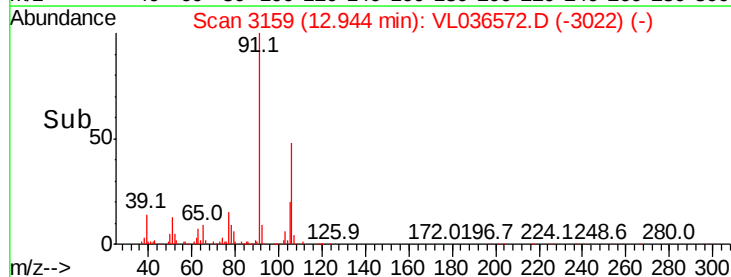
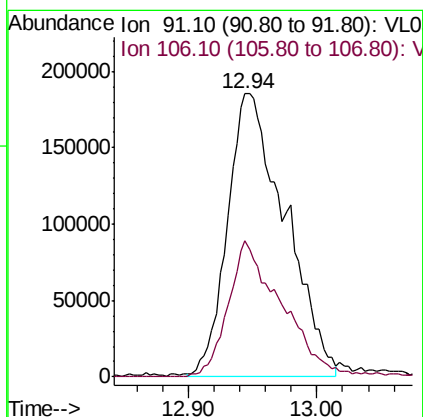
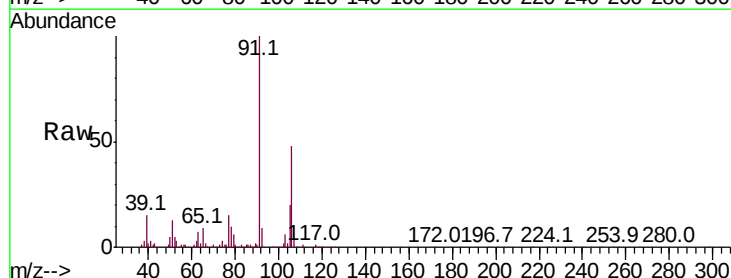
Acq: 30 Mar 2021 16:42

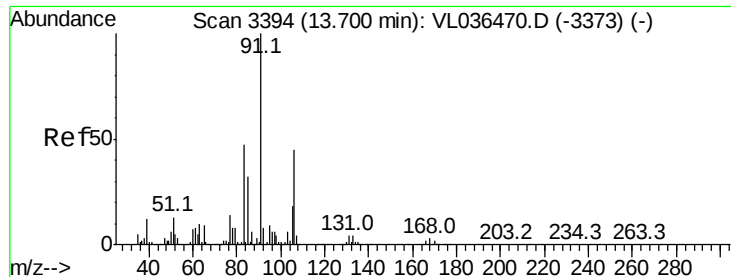
Tgt Ion: 91 Resp: 579610

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#





#60

o-Xylene

Concen: 0.481 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. -0.03 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion: 91 Resp: 188932

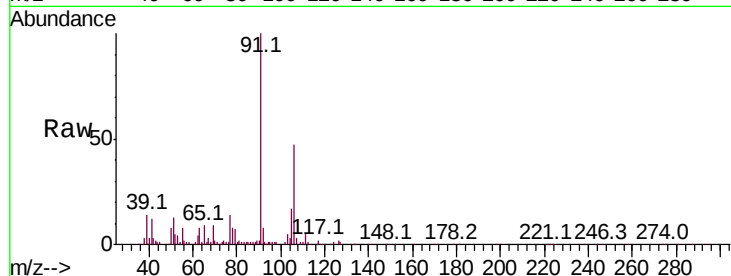
Ion Ratio Lower Upper

91 100

106 48.0 22.3 66.9

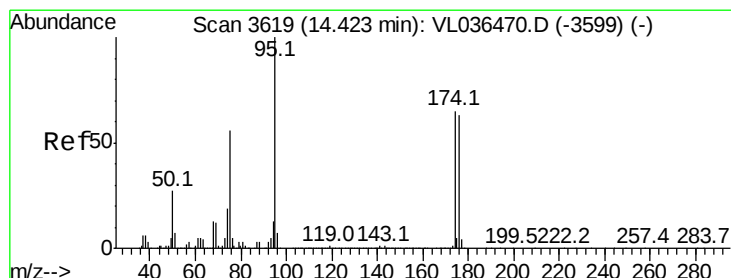
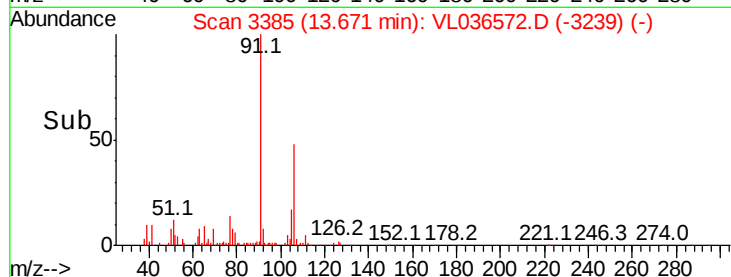
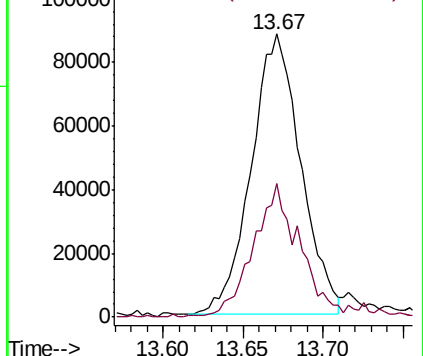
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.272 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. -0.03 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

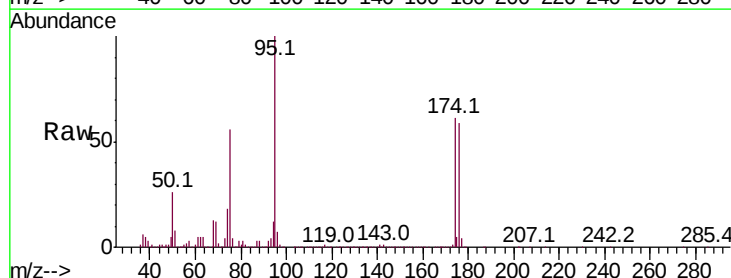
Tgt Ion: 95 Resp: 2619799

Ion Ratio Lower Upper

95 100

174 64.3 51.0 76.6

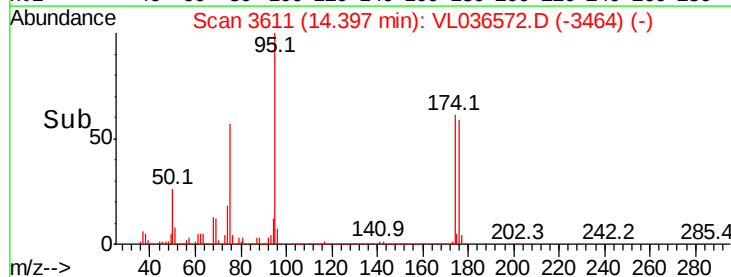
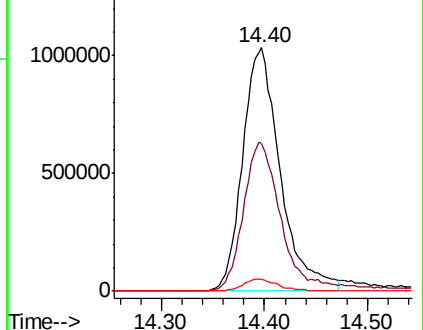
175 4.9 3.9 5.9

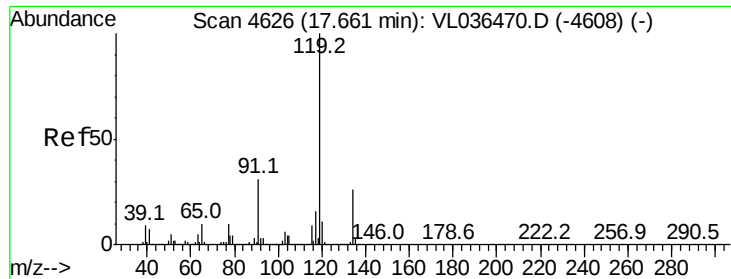


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





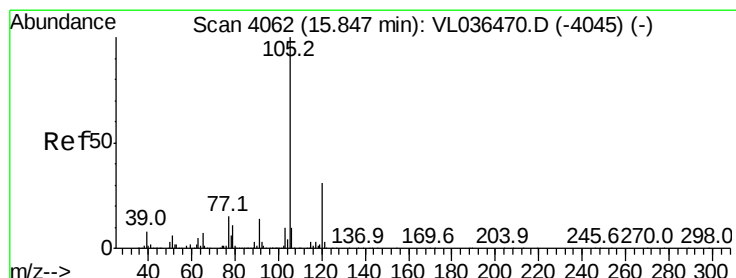
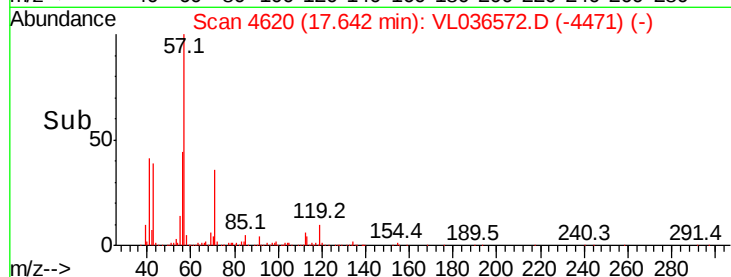
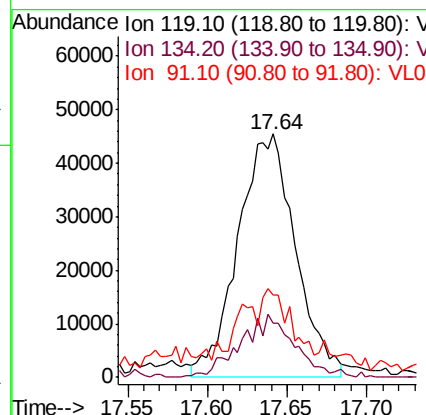
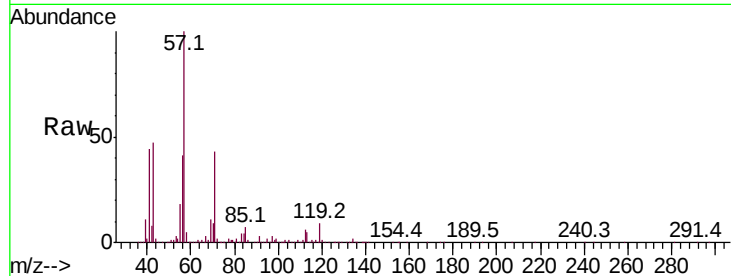
#69
 p-Isopropyltoluene
 Concen: 0.225 ppbv m
 RT: 17.64 min Scan# 4620
 Delta R.T. -0.02 min
 Lab File: VL036572.D
 Acq: 30 Mar 2021 16:42

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-04(2021)

Tot Ion	Ratio	Resp	Lower	Upper
119	100			
134	0.0	20.6	30.8#	
91	0.0	25.0	37.6#	

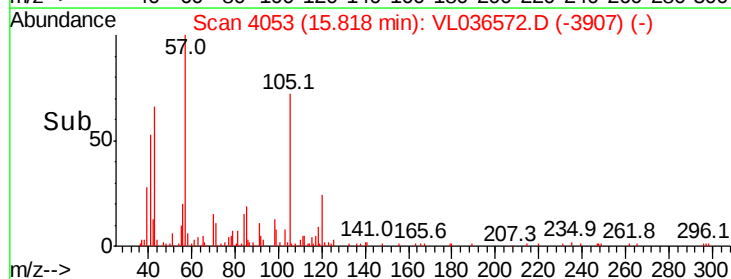
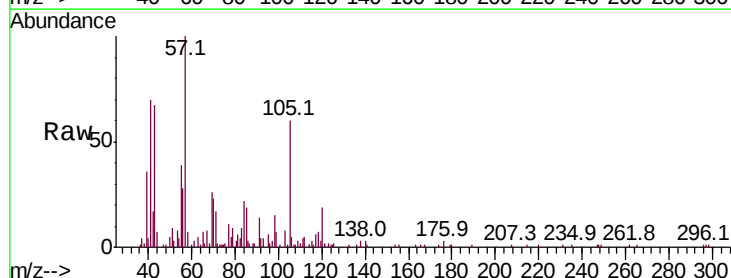
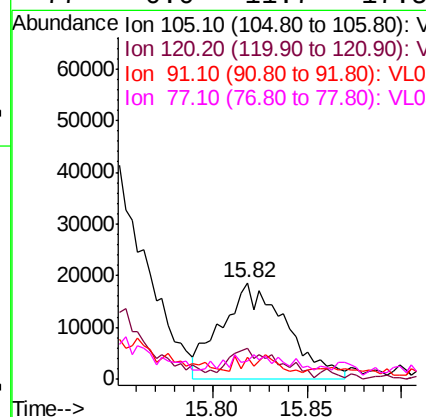
Manual Integrations
 APPROVED

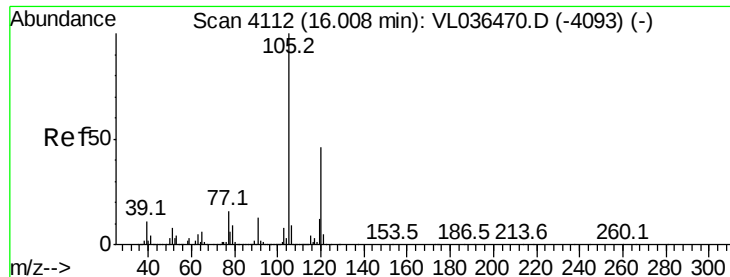
MMDadoda
 4/1/2021 10:58:31 AM



#72
 4-Ethyltoluene
 Concen: 0.103 ppbv m
 RT: 15.82 min Scan# 4053
 Delta R.T. -0.03 min
 Lab File: VL036572.D
 Acq: 30 Mar 2021 16:42

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
120	30.1	24.0	36.0	
91	0.0	11.0	16.4#	
77	0.0	11.7	17.5#	





#73

1,3,5-Trimethylbenzene

Concen: 0.105 ppbv m

RT: 15.98 min Scan# 4102

Delta R.T. -0.03 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-04(2021)

Tot Ion:105 Resp: 42217

Ion Ratio Lower Upper

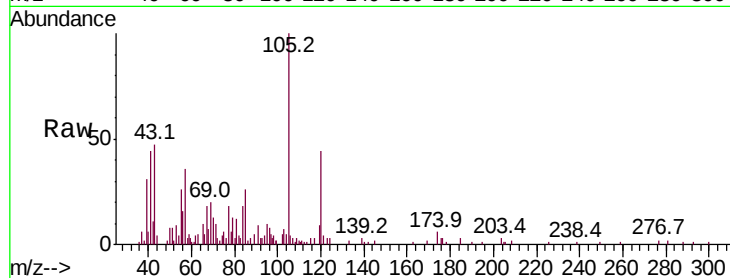
105 100

120 44.3 36.6 54.8

Manual Integrations
APPROVED

MMDadoda

4/1/2021 10:58:31 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.98

20000

15000

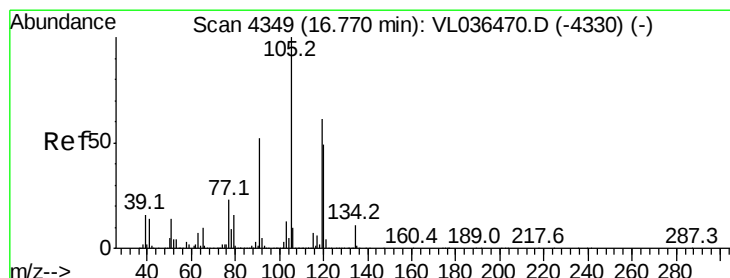
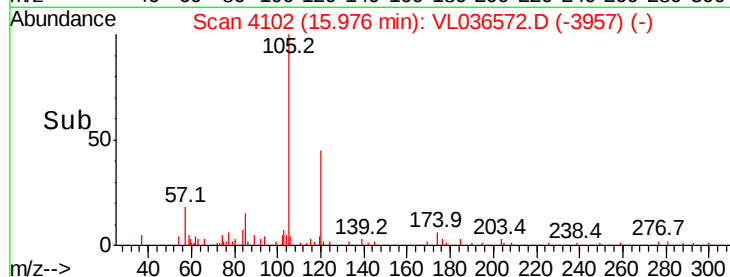
10000

5000

0

Time-->

15.90 15.95 16.00 16.05



#74

1,2,4-Trimethylbenzene

Concen: 0.344 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.03 min

Lab File: VL036572.D

Acq: 30 Mar 2021 16:42

Tgt Ion:105 Resp: 147768

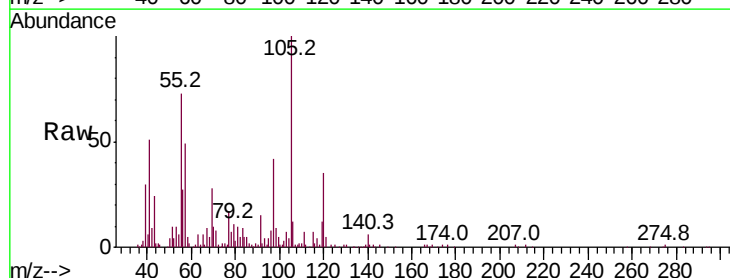
Ion Ratio Lower Upper

105 100

120 35.4 39.2 58.8#

91 12.6 42.6 64.0#

77 11.8 18.6 28.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

100000

80000

60000

40000

20000

0

Time-->

16.70 16.75 16.80

