

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036326.D
 Acq On : 10 Feb 2021 20:36
 Operator : SY/AP
 Sample : M1343-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-1BDUP

Manual Integrations
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 2/12/2021 1:42:33 PM

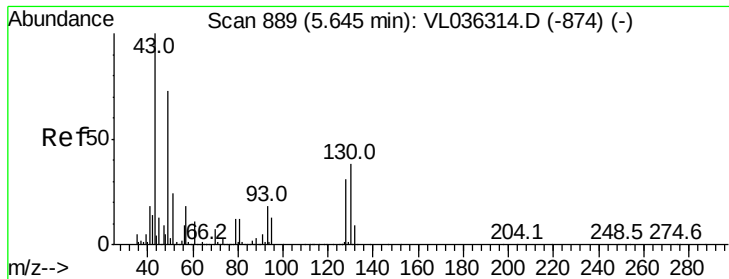
Quant Time: Feb 11 20:58:21 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1498148	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3418661	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2956049	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	2483347	10.21	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	57787	0.258	ppbv	89
3) Chlorodifluoromethane	2.97	51	470307m	2.527	ppbv	
4) Chloromethane	3.12	50	60939m	0.678	ppbv	
9) Propene	3.01	41	179769	2.590	ppbv #	81
11) Trichlorofluoromethane	3.93	101	46432	0.212	ppbv	97
13) Ethanol	3.63	45	21602950	1657.209	ppbv	96
15) Acetone	3.84	43	1476781	8.064	ppbv	100
17) tert-Butyl alcohol	4.31	59	53490m	0.376	ppbv	
19) Isopropyl Alcohol	4.00	45	6253984m	61.641	ppbv	
20) Methylene Chloride	4.33	84	71077m	1.203	ppbv	
29) Chloroform	5.74	83	36339m	0.155	ppbv	
34) 2-Butanone	5.23	43	119271m	0.525	ppbv	
35) Carbon Tetrachloride	7.00	117	15009m	0.066	ppbv	
36) Benzene	6.87	78	481795	1.659	ppbv	97
53) Toluene	9.79	91	178548	0.568	ppbv	95

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SR-1BDUP

Tot Ion: 49 Resp: 1498148

Ion Ratio Lower Upper

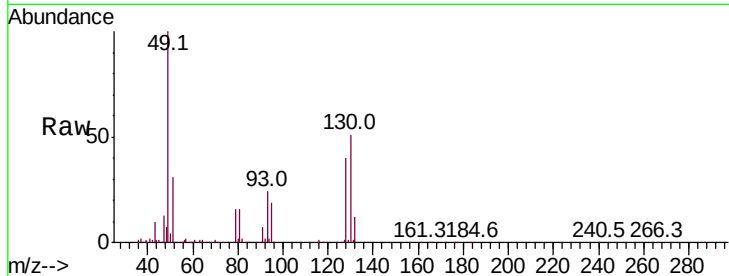
49 100

128 43.7 20.8 62.5

130 55.5 26.7 80.1

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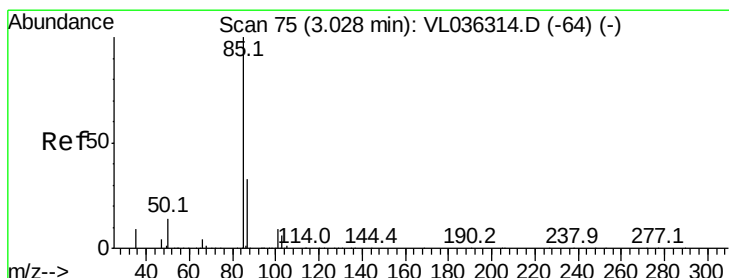
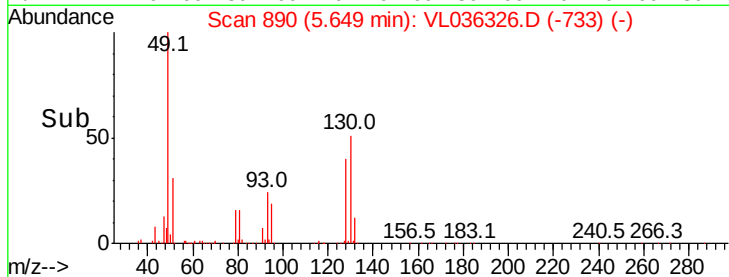
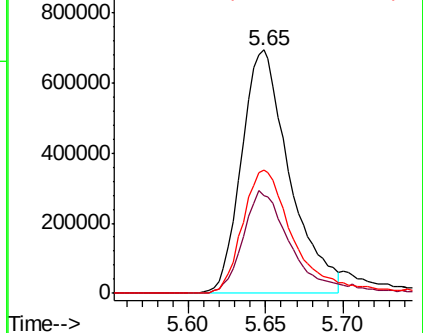
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.258 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL036326.D

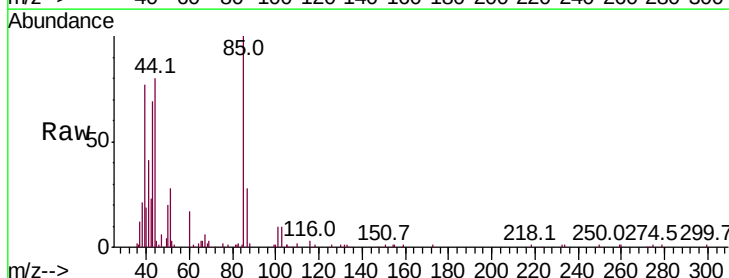
Acq: 10 Feb 2021 20:36

Tgt Ion: 85 Resp: 57787

Ion Ratio Lower Upper

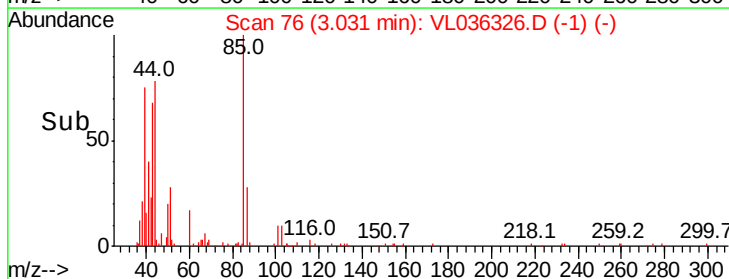
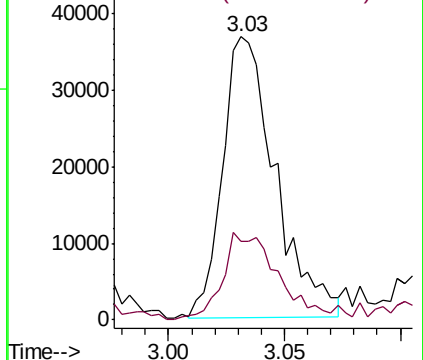
85 100

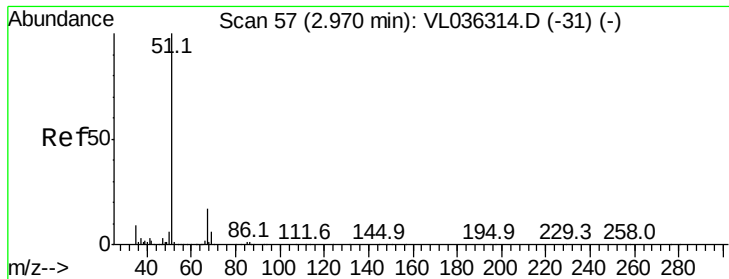
87 26.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.527 ppbv m

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SR-1BDUP

Tot Ion: 51 Resp: 470307

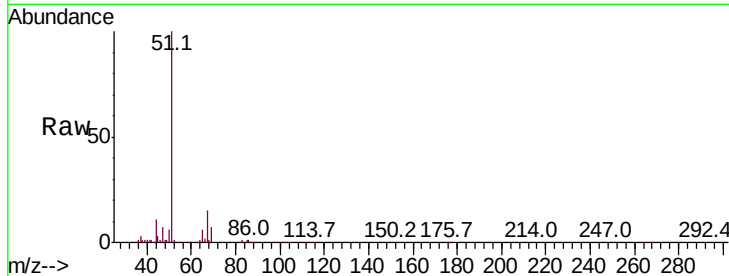
Ion Ratio Lower Upper

51 100

67 15.5 14.7 22.1

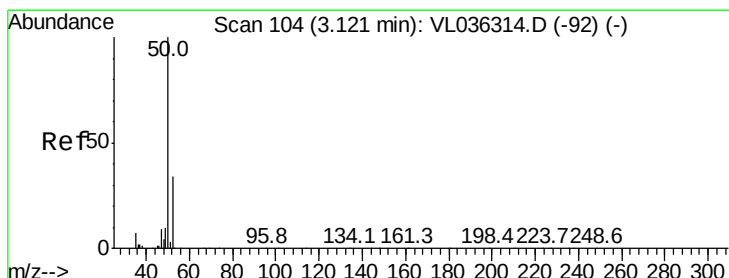
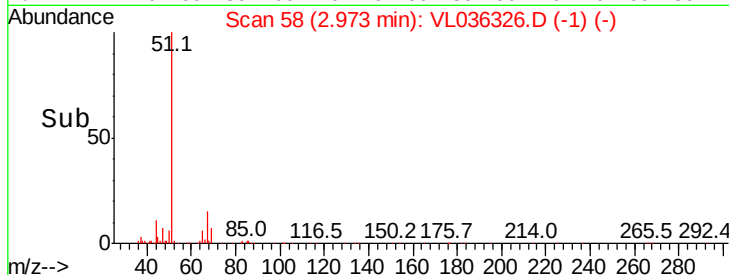
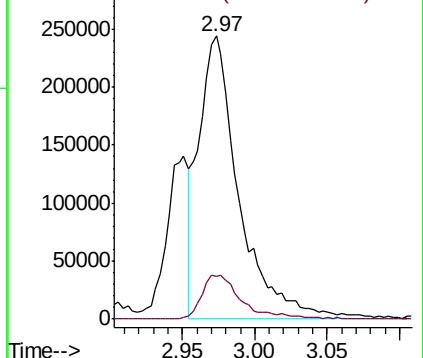
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.678 ppbv m

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL036326.D

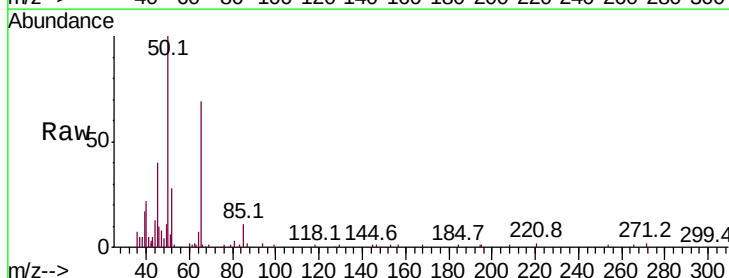
Acq: 10 Feb 2021 20:36

Tgt Ion: 50 Resp: 60939

Ion Ratio Lower Upper

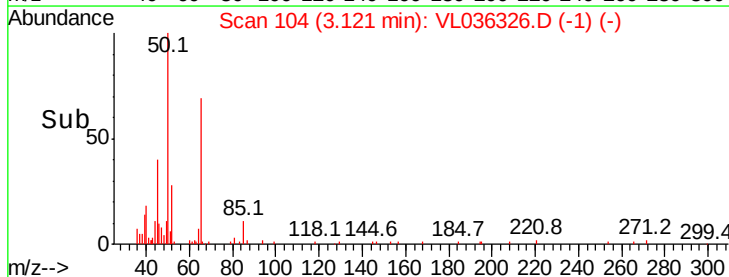
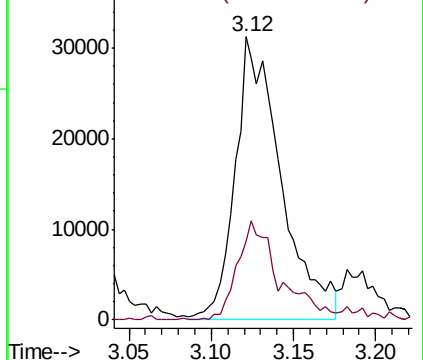
50 100

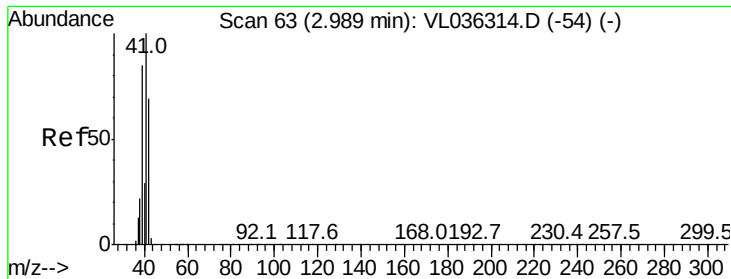
52 27.9 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.590 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.02 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SR-1BDUP

Tot Ion: 41 Resp: 179769

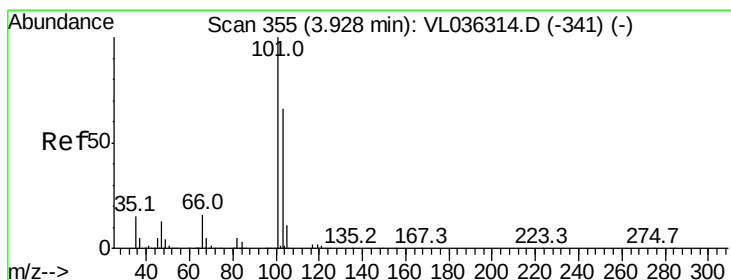
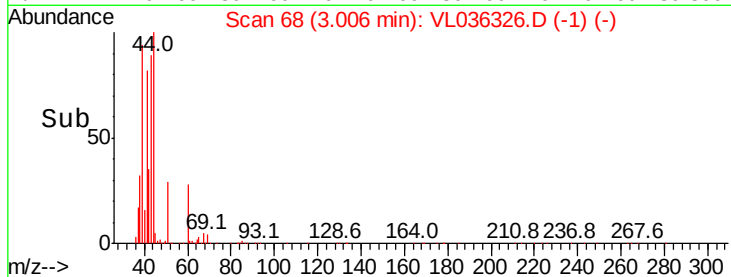
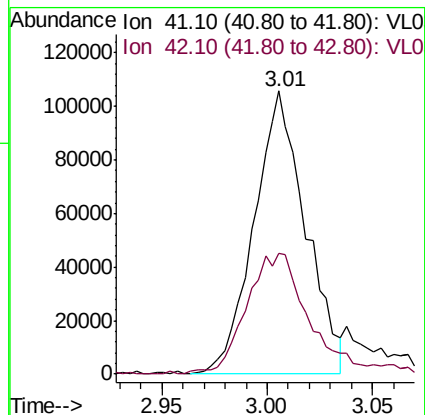
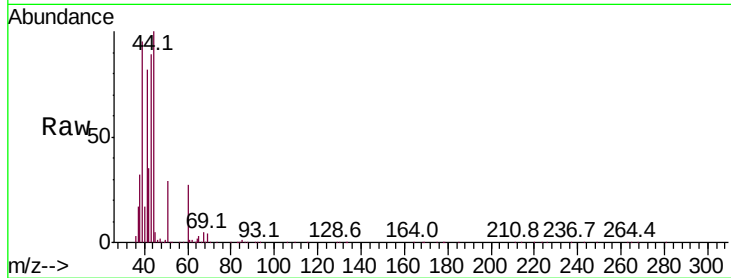
Ion Ratio Lower Upper

41 100

42 54.5 56.2 84.2#

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#11

Trichlorofluoromethane

Concen: 0.212 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.01 min

Lab File: VL036326.D

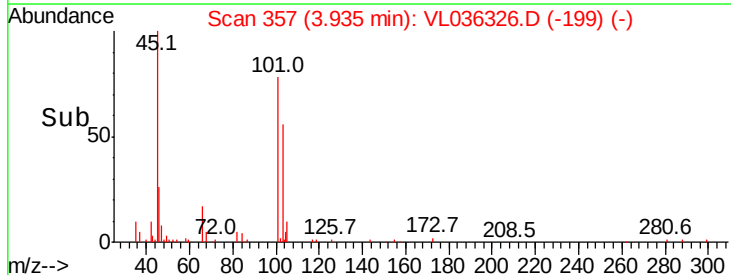
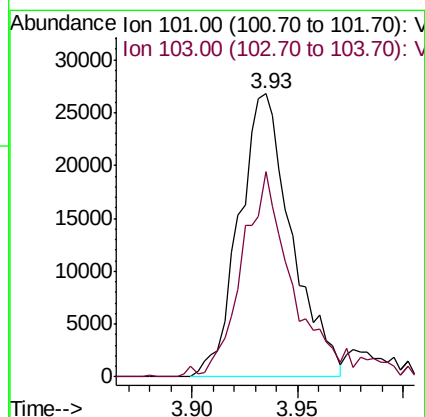
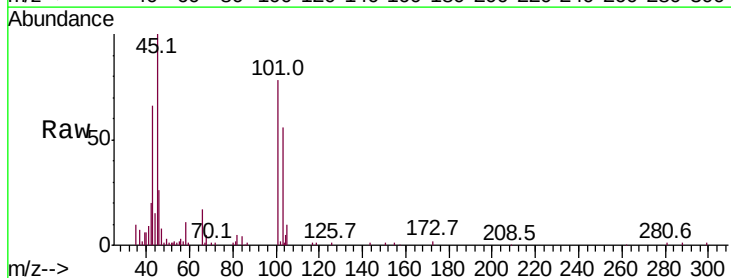
Acq: 10 Feb 2021 20:36

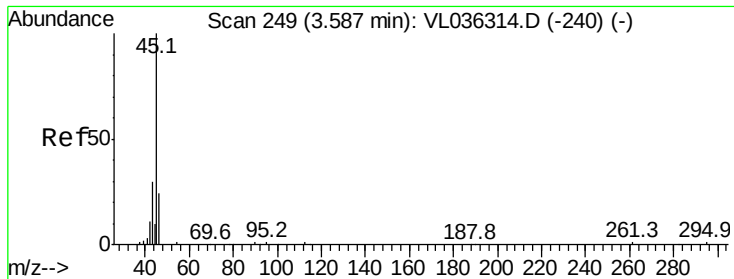
Tgt Ion: 101 Resp: 46432

Ion Ratio Lower Upper

101 100

103 68.8 52.9 79.3





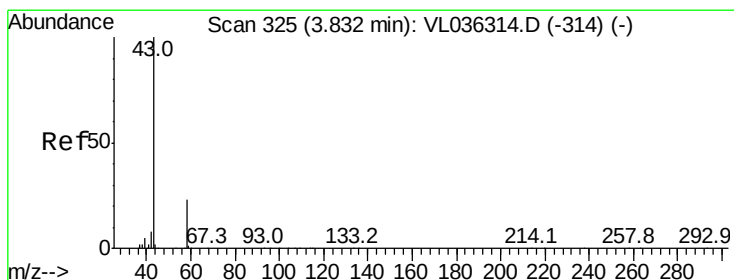
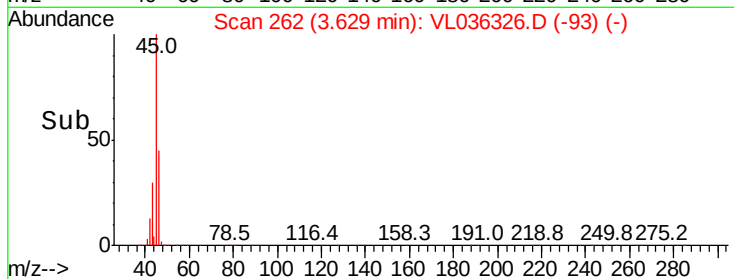
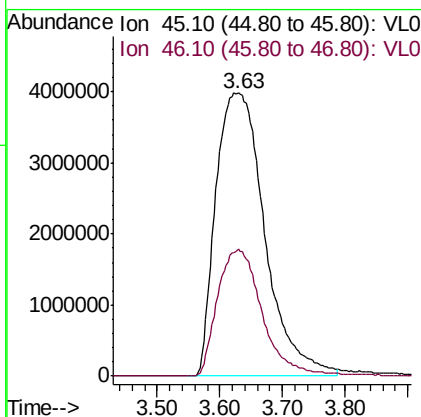
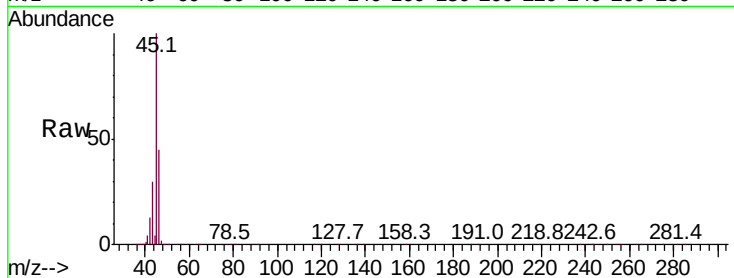
#13
Ethanol
Concen: 1657.209 ppbv
RT: 3.63 min Scan# 262
Delta R.T. 0.04 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Instrument :
MSVOA_L
ClientSampleId :
SR-1BDUP

Tot Ion: 45 Resp: 21602950
Ion Ratio Lower Upper
45 100
46 41.4 17.7 70.7

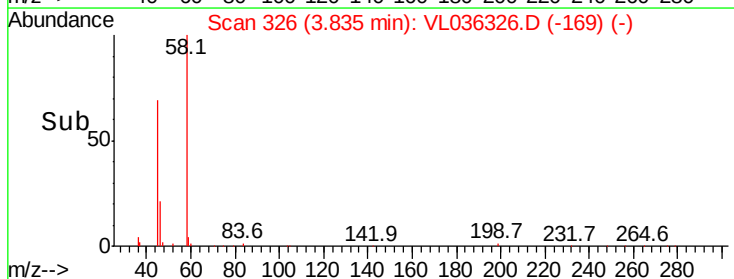
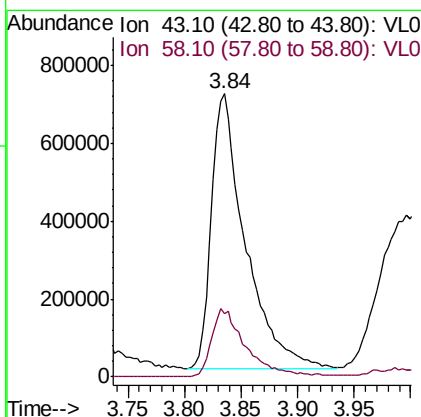
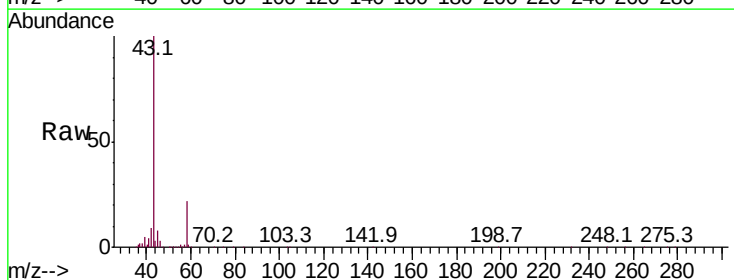
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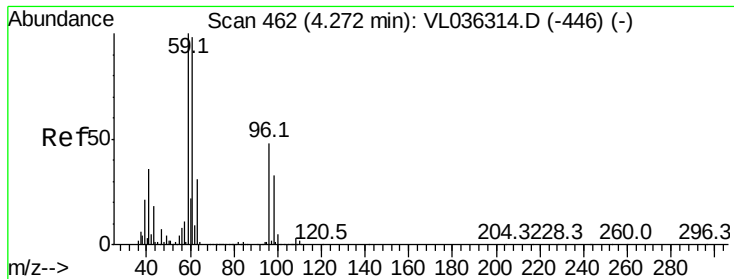
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#15
Acetone
Concen: 8.064 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.00 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion: 43 Resp: 1476781
Ion Ratio Lower Upper
43 100
58 25.6 20.3 30.5





#17

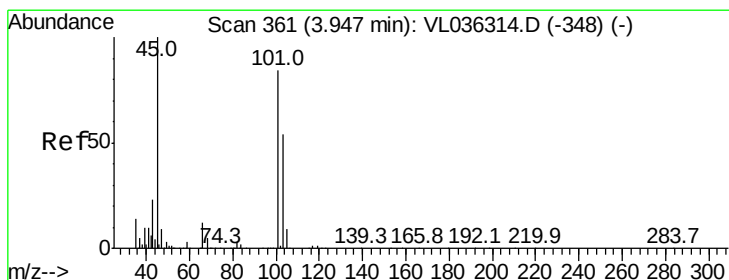
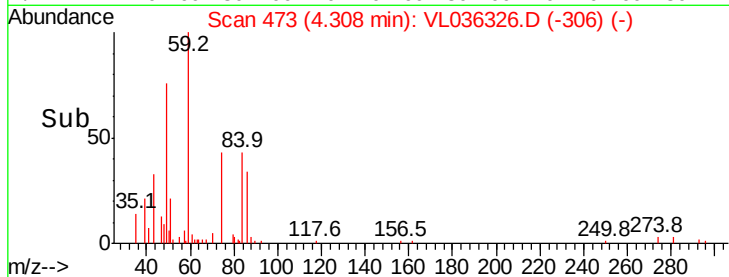
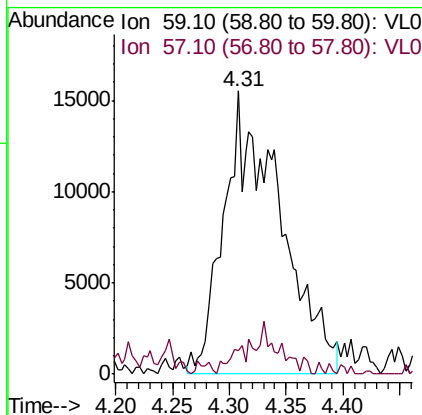
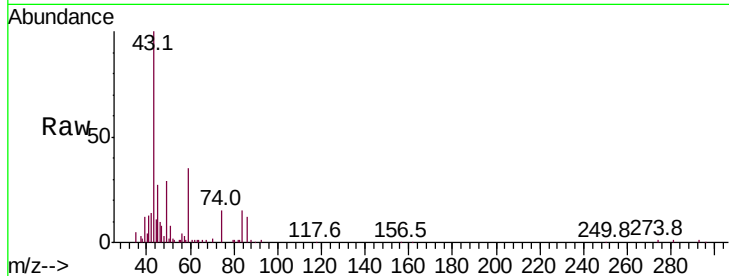
tert-Butyl alcohol
Concen: 0.376 ppbv m
RT: 4.31 min Scan# 473
Delta R.T. 0.04 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Instrument :
MSVOA_L
ClientSampleId :
SR-1BDUP

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.0	13.4#

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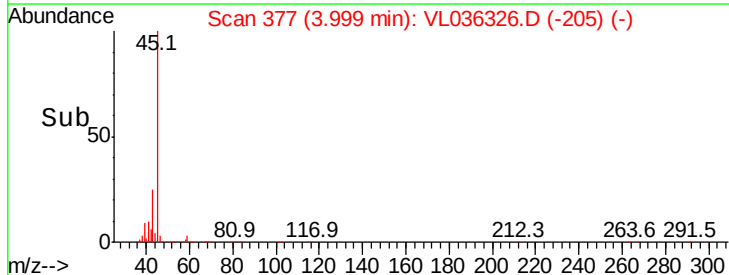
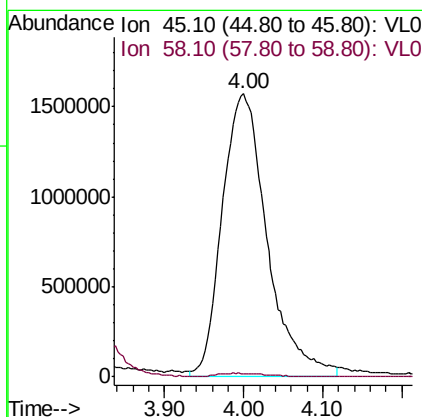
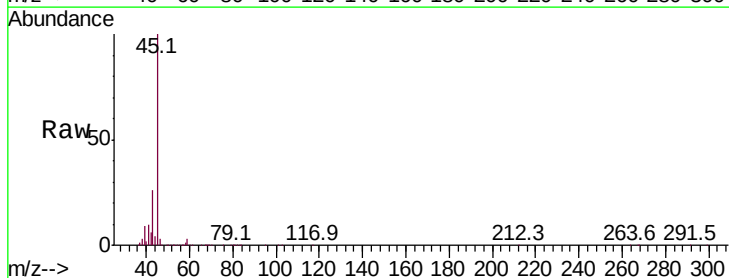
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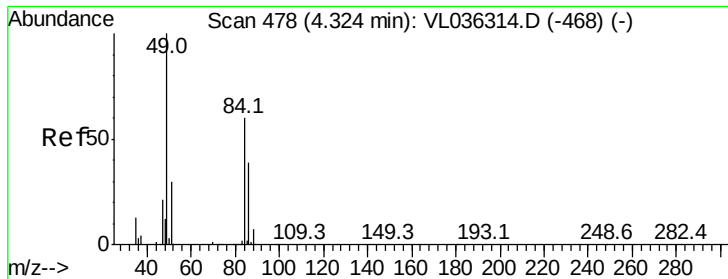


#19

Isopropyl Alcohol
Concen: 61.641 ppbv m
RT: 4.00 min Scan# 377
Delta R.T. 0.05 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.9	2.9#





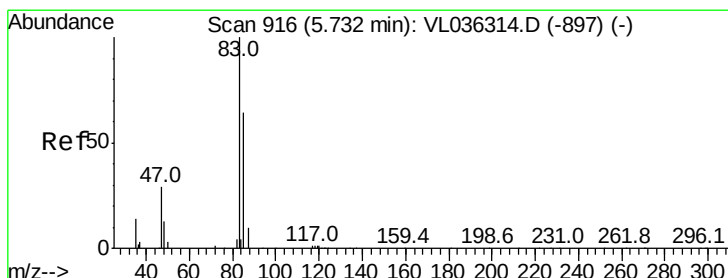
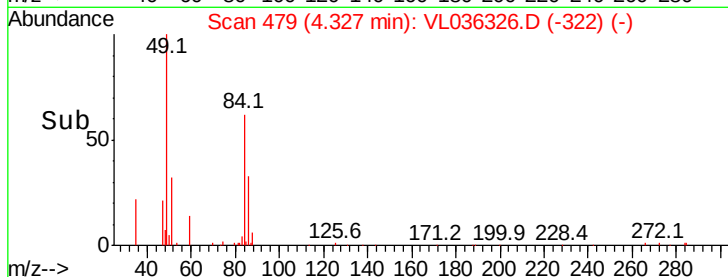
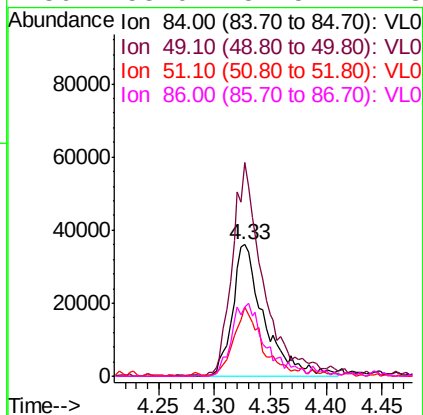
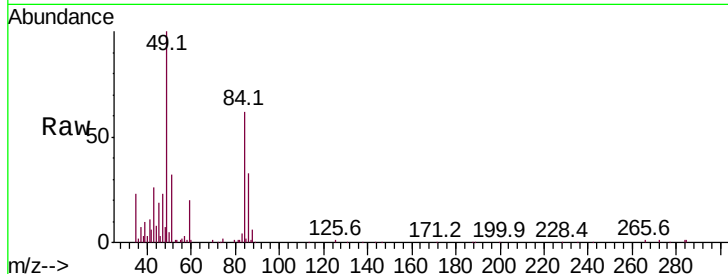
#20
Methvlene Chloride
Concen: 1.203 ppbv m
RT: 4.33 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Instrument :
MSVOA_L
ClientSampleId :
SR-1BDUP

Tot Ion	Ratio	Lower	Upper
84	100		
49	162.4	133.8	200.8
51	52.1	41.4	62.0
86	53.0	51.5	77.3

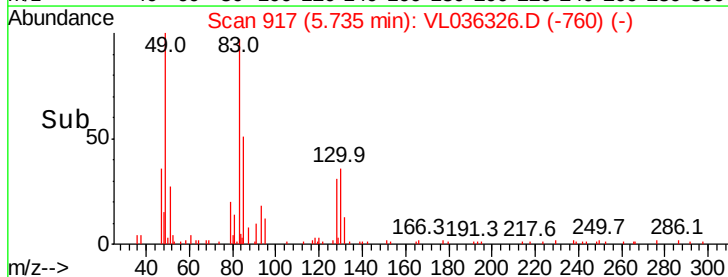
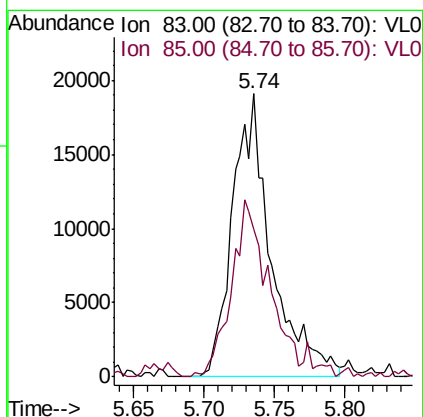
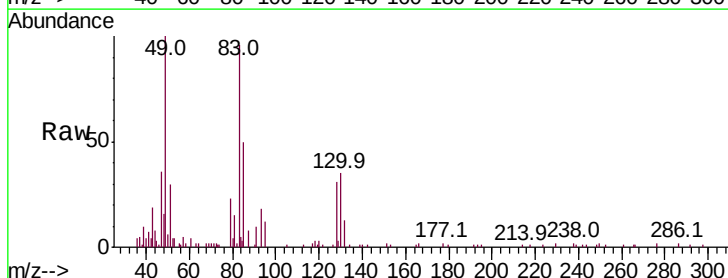
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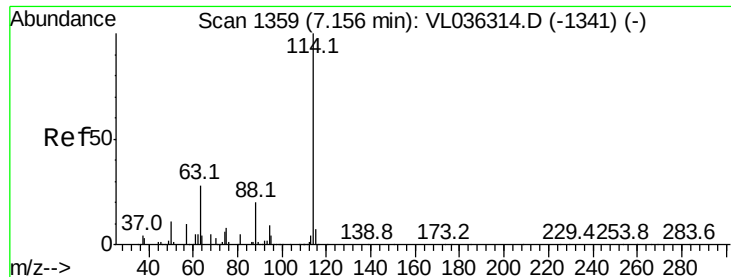
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#29
Chloroform
Concen: 0.155 ppbv m
RT: 5.74 min Scan# 917
Delta R.T. 0.00 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	52.3	51.4	77.2





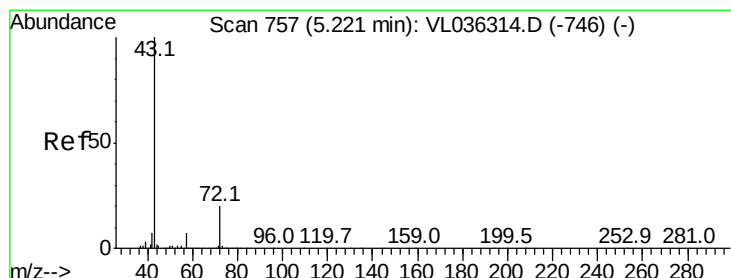
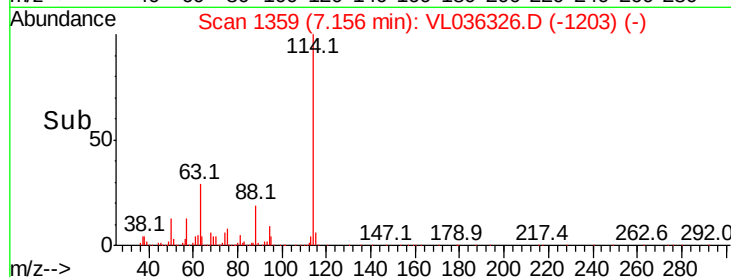
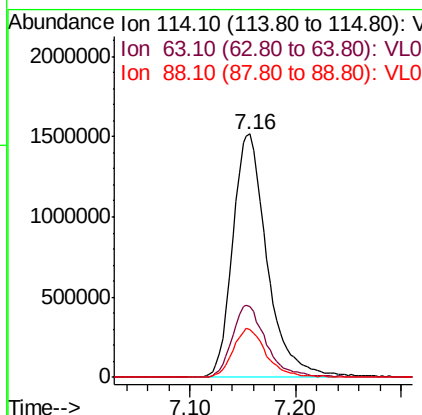
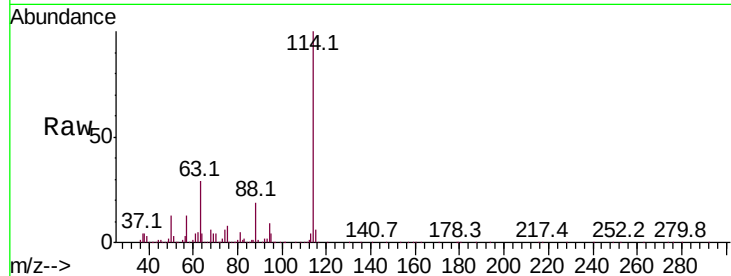
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VL036326.D
 Acq: 10 Feb 2021 20:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-1BDUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.7	24.1	36.1
88	19.8	16.0	24.0

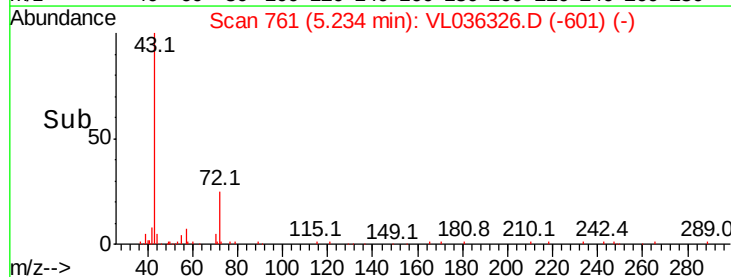
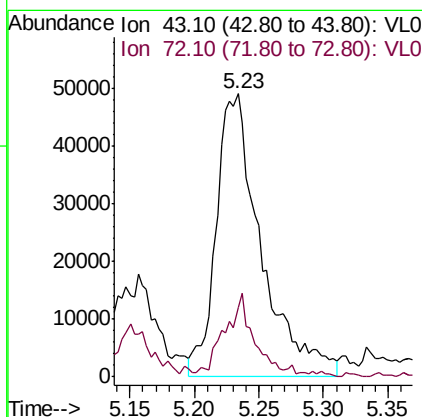
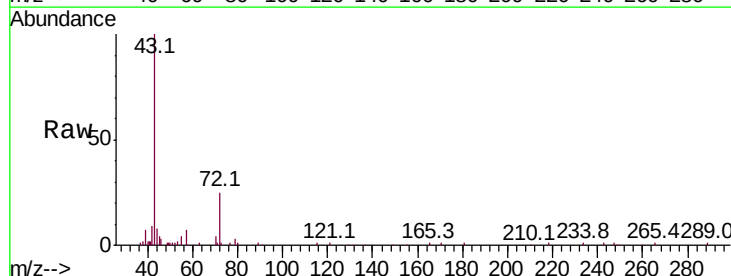
Manual Integrations
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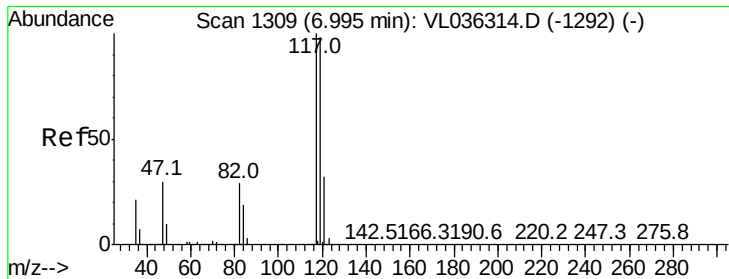
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#34
 2-Butanone
 Concen: 0.525 ppbv m
 RT: 5.23 min Scan# 761
 Delta R.T. 0.01 min
 Lab File: VL036326.D
 Acq: 10 Feb 2021 20:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.7	25.1#





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. 0.01 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

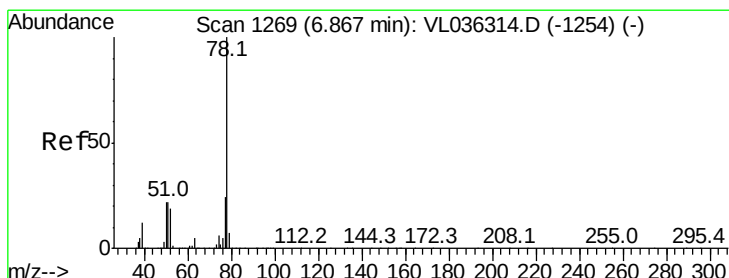
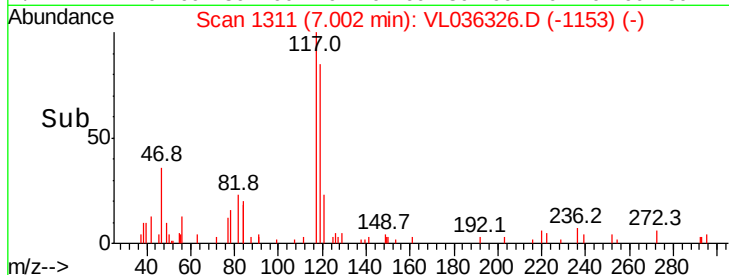
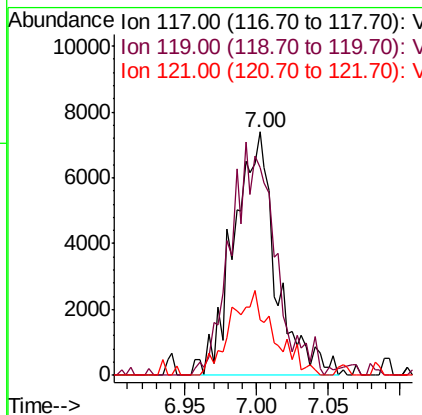
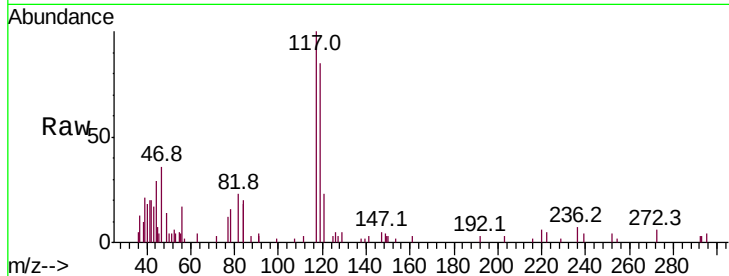
ClientSampleId :

SR-1BDUP

Tot Ion:	117	Resp:	15009
Ion Ratio	Lower	Upper	
117	100		
119	85.1	78.1	117.1
121	22.5	25.8	38.8#

Manual Integrations
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#36

Benzene

Concen: 1.659 ppbv

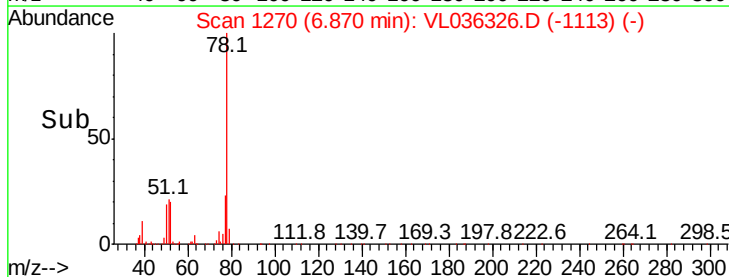
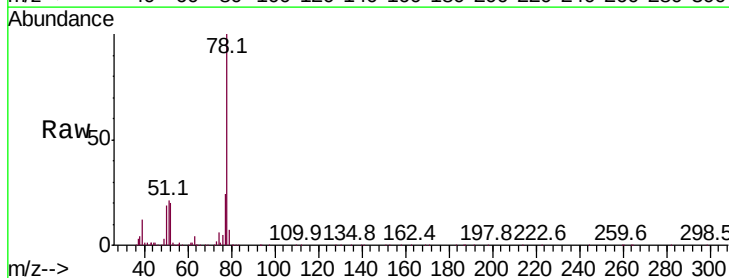
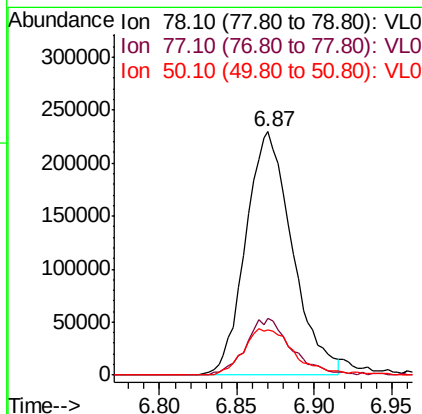
RT: 6.87 min Scan# 1270

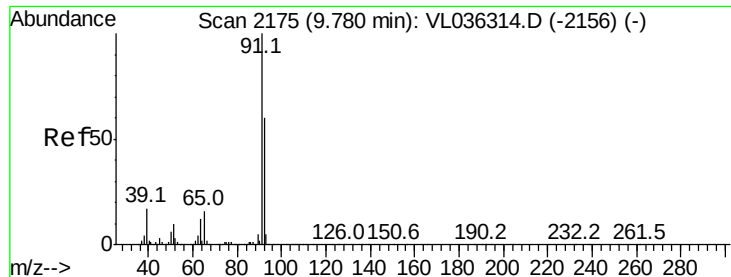
Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Tgt Ion:	78	Resp:	481795
Ion Ratio	Lower	Upper	
78	100		
77	23.5	18.9	28.3
50	18.7	17.3	25.9





#53

Toluene

Concen: 0.568 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.01 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SR-1BDUP

Tot Ion: 91 Resp: 178548

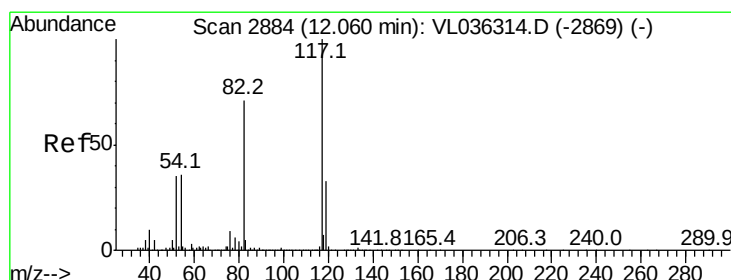
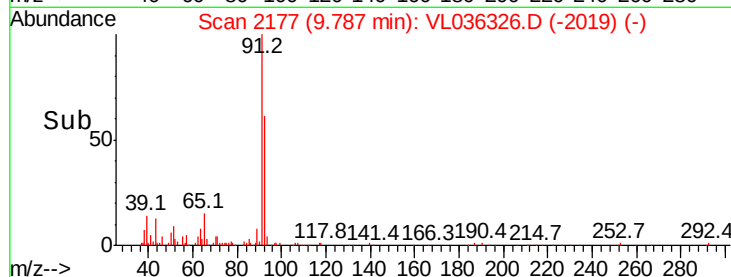
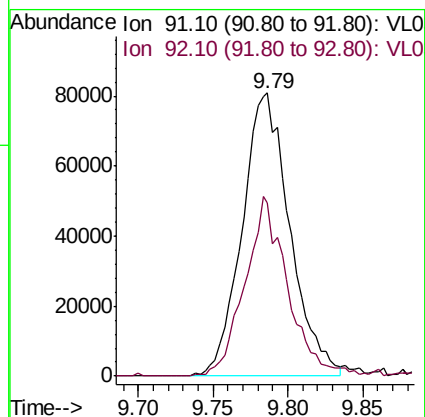
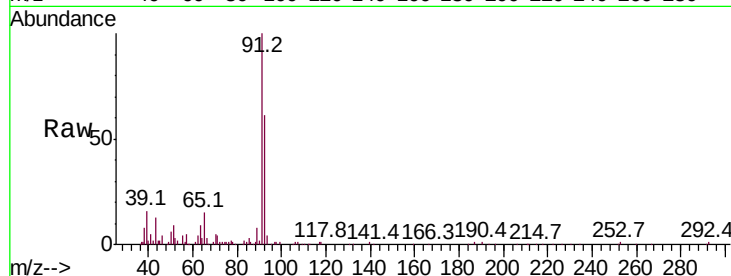
Ion Ratio Lower Upper

91 100

92 57.1 48.6 72.8

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:33 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.01 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

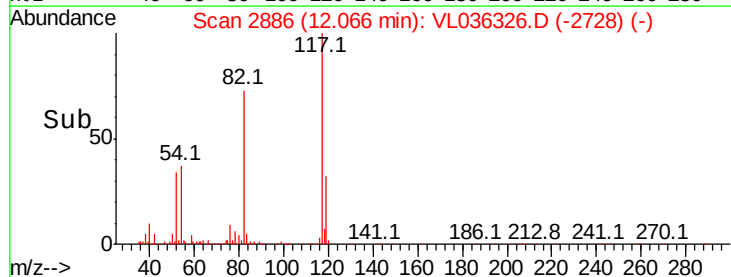
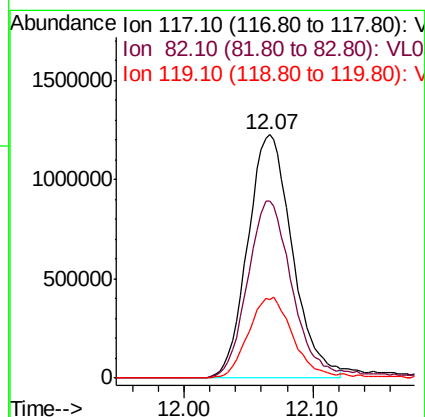
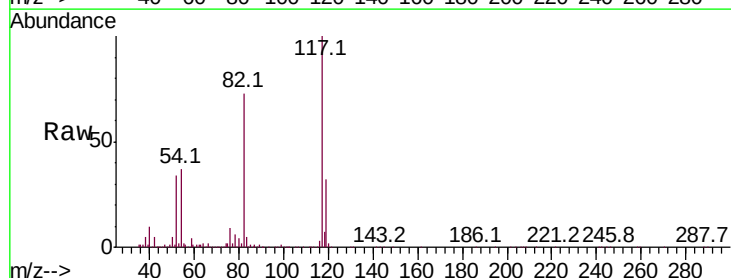
Tgt Ion: 117 Resp: 2956049

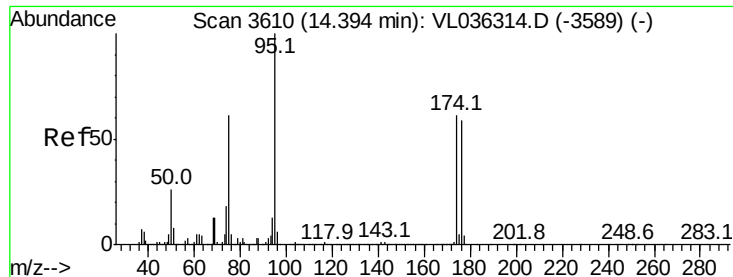
Ion Ratio Lower Upper

117 100

82 75.4 59.1 88.7

119 34.2 46.3 69.5#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.211 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL036326.D
 Acq: 10 Feb 2021 20:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-1BDUP

Tot Ion: 95 Resp: 2483347
 Ion Ratio Lower Upper
 95 100
 174 61.2 49.8 74.6
 175 4.5 3.7 5.5

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:42:33 PM

