

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022521\
 Data File : VL036385.D
 Acq On : 25 Feb 2021 17:38
 Operator : SY/AP
 Sample : M1463-14
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-6

Manual Integrations
 APPROVED

MMDadoda
 3/1/2021 10:02:46 AM

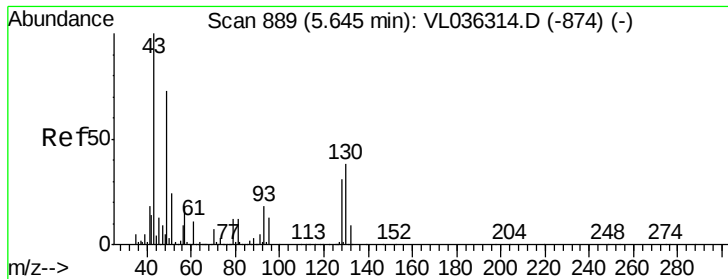
Quant Time: Feb 26 15:43:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1572267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3485293	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3104212	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2541375	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	66716	0.284	ppbv	95
3) Chlorodifluoromethane	2.98	51	67981m	0.348	ppbv	
4) Chloromethane	3.13	50	65887m	0.698	ppbv	
9) Propene	3.01	41	67532	0.927	ppbv	85
11) Trichlorofluoromethane	3.94	101	55255m	0.240	ppbv	
13) Ethanol	3.61	45	303437m	22.180	ppbv	
15) Acetone	3.84	43	696179m	3.622	ppbv	
19) Isopropyl Alcohol	3.97	45	89507	0.841	ppbv #	82
20) Methylene Chloride	4.33	84	1326354	21.391	ppbv	99
26) Hexane	5.68	57	2493385	16.356	ppbv #	37
35) Carbon Tetrachloride	7.00	117	17883m	0.077	ppbv	
36) Benzene	6.88	78	77322m	0.261	ppbv	
53) Toluene	9.79	91	95990m	0.299	ppbv	
59) m/p-Xylene	12.95	91	41859m	0.112	ppbv	

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



#1

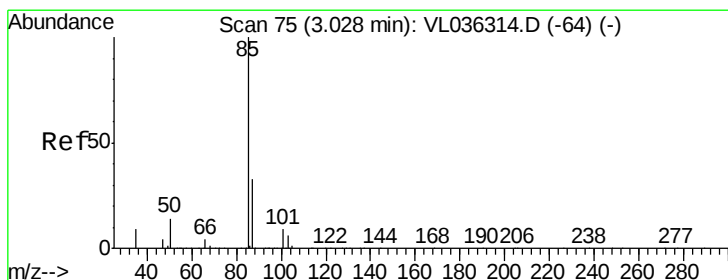
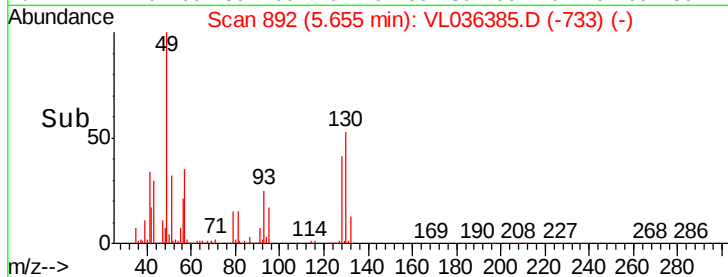
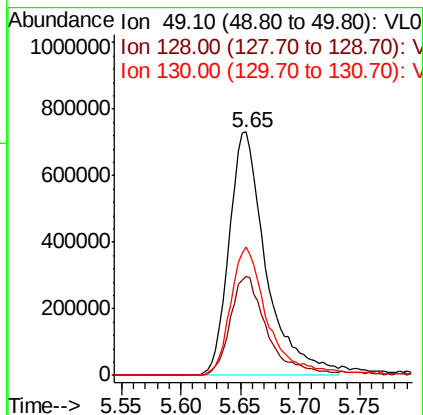
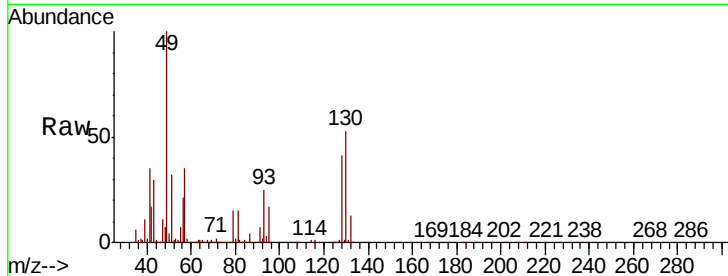
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

Instrument :
 MSVOA_L
 ClientSampled :
 NS-6

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.5	20.8	62.5
130	54.6	26.7	80.1

Manual Integrations
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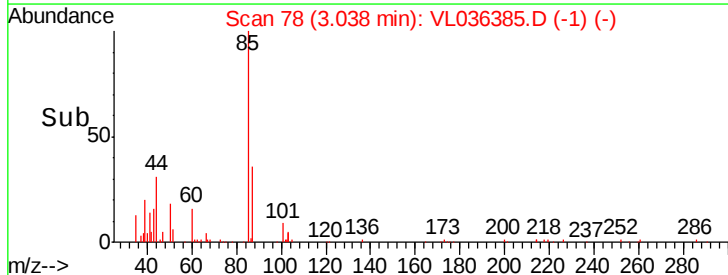
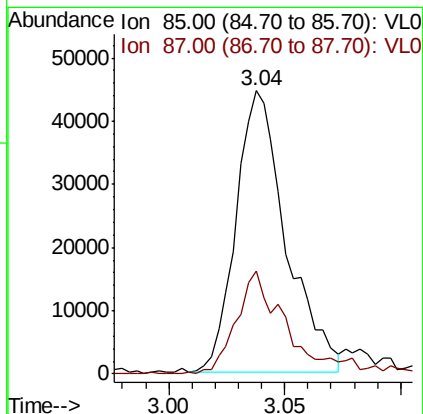
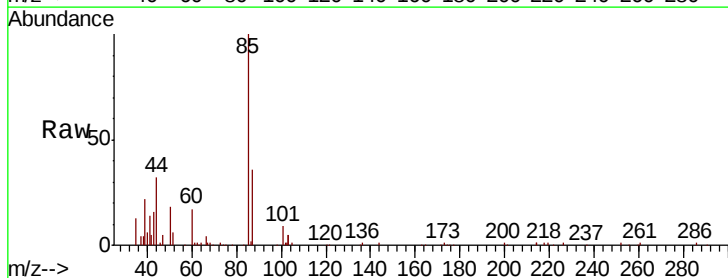
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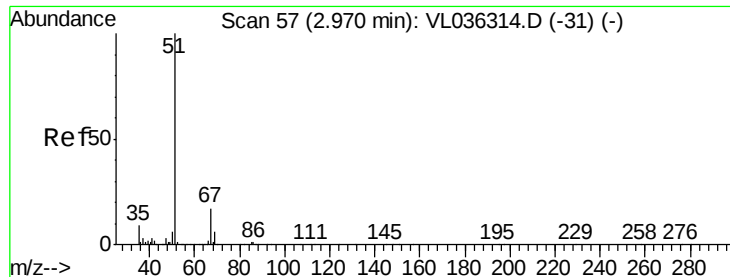


#2

Dichlorodifluoromethane
 Concen: 0.284 ppbv
 RT: 3.04 min Scan# 78
 Delta R.T. 0.01 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

Tgt Ion	Ratio	Lower	Upper
85	100		
87	36.1	26.5	39.7





#3

Chlorodifluoromethane

Concen: 0.348 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

NS-6

Tot Ion: 51 Resp: 67981

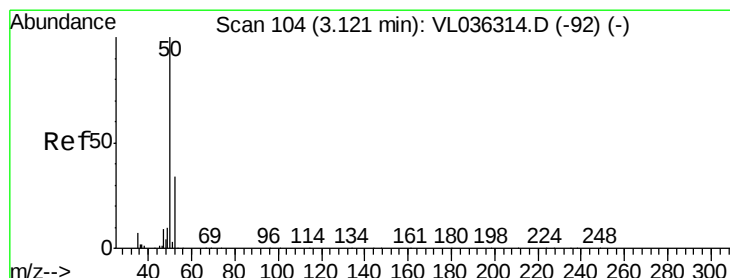
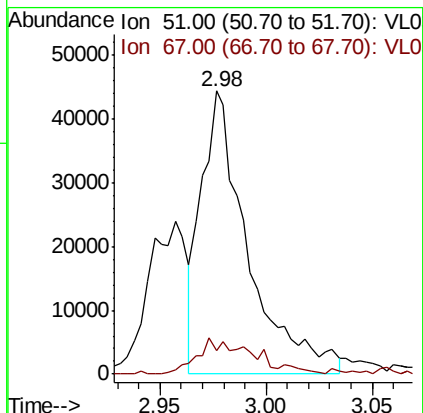
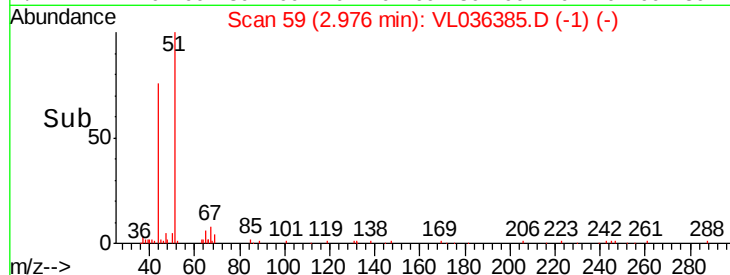
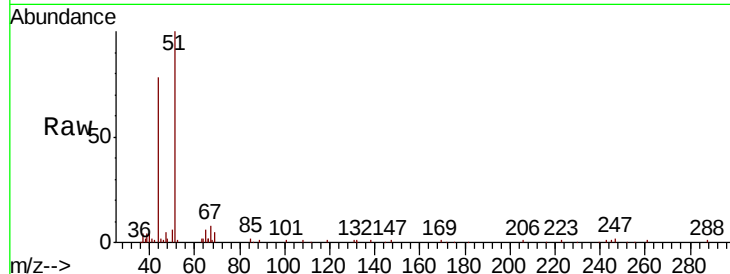
Ion Ratio Lower Upper

51 100

67 16.8 14.7 22.1

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#4

Chloromethane

Concen: 0.698 ppbv m

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL036385.D

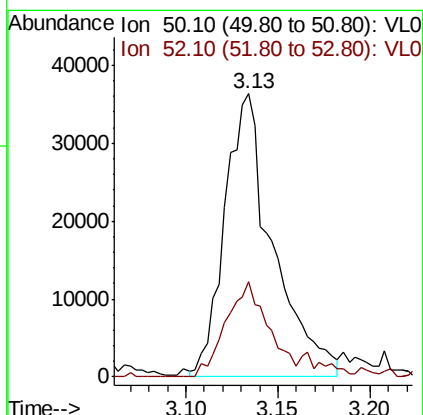
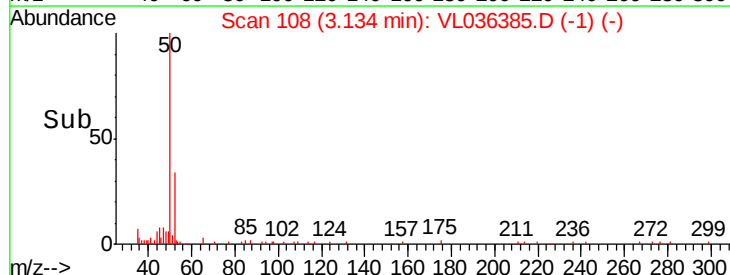
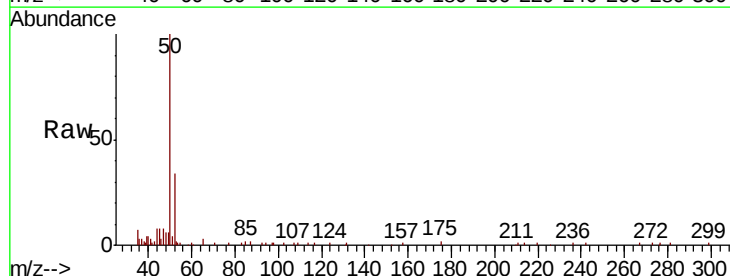
Acq: 25 Feb 2021 17:38

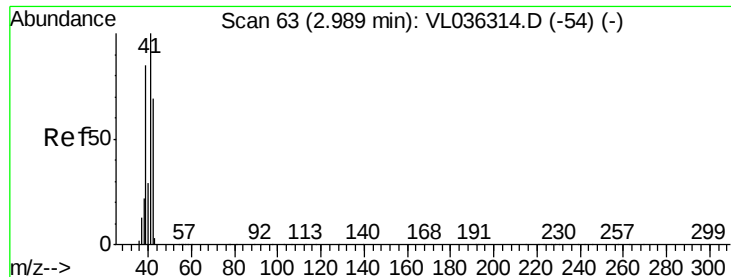
Tgt Ion: 50 Resp: 65887

Ion Ratio Lower Upper

50 100

52 33.6 27.0 40.4





#9

Propene

Concen: 0.927 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

ClientSampled :

NS-6

Tot Ion: 41 Resp: 67532

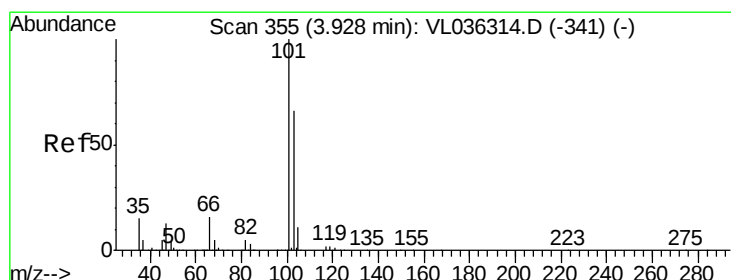
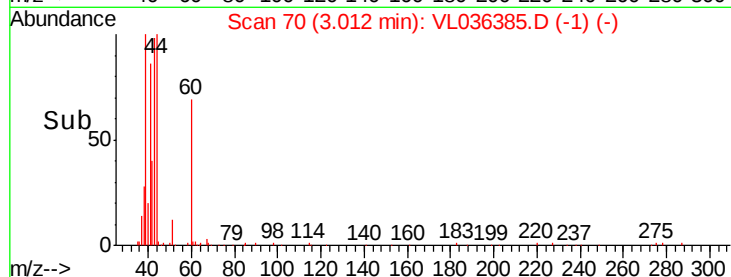
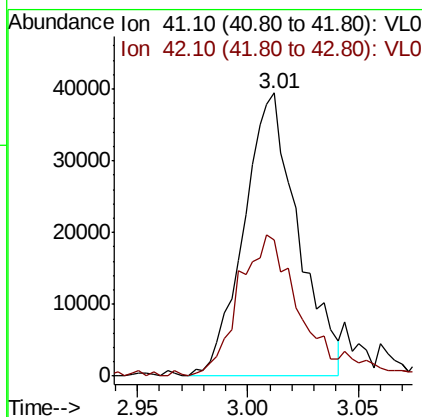
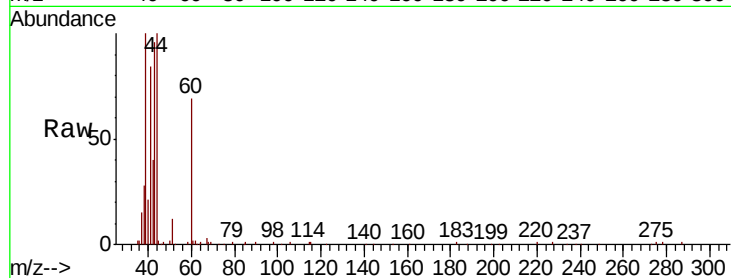
Ion Ratio Lower Upper

41 100

42 57.8 56.2 84.2

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#11

Trichlorofluoromethane

Concen: 0.240 ppbv m

RT: 3.94 min Scan# 359

Delta R.T. 0.01 min

Lab File: VL036385.D

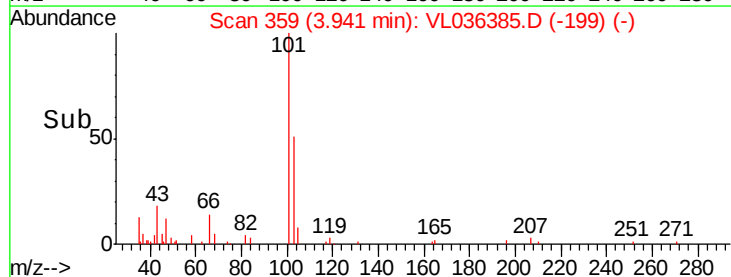
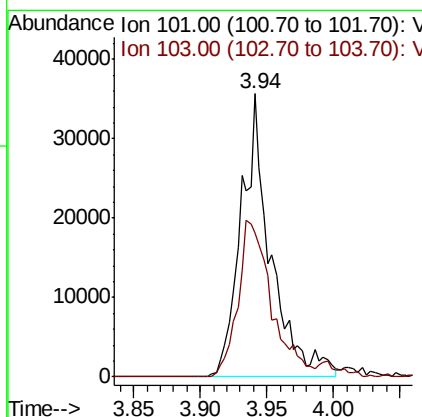
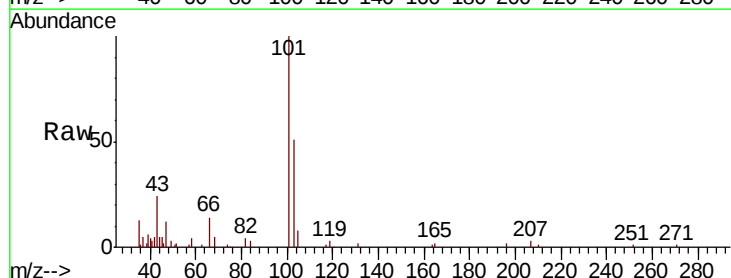
Acq: 25 Feb 2021 17:38

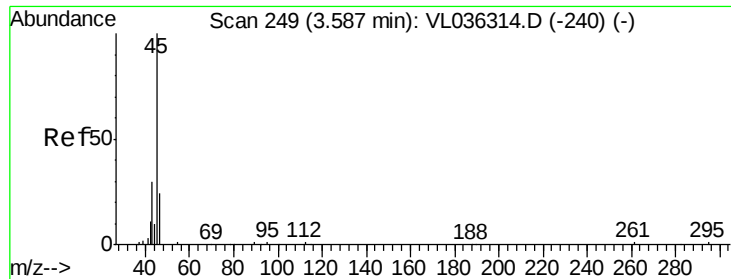
Tgt Ion: 101 Resp: 55255

Ion Ratio Lower Upper

101 100

103 50.9 52.9 79.3#





#13

Ethanol

Concen: 22.180 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. 0.02 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

NS-6

Tot Ion: 45 Resp: 303437

Ion Ratio Lower Upper

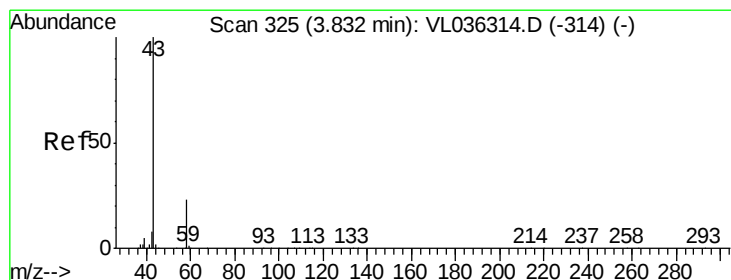
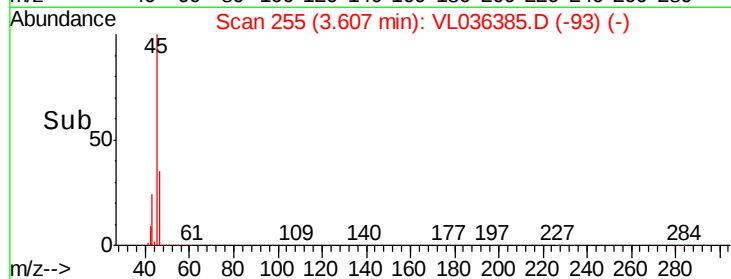
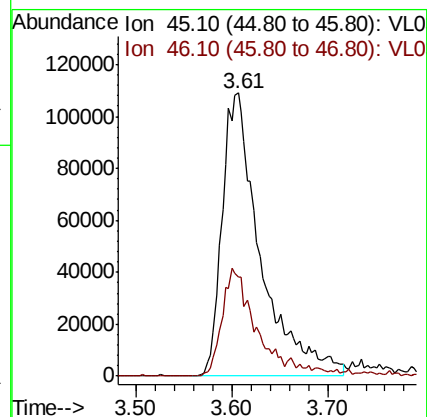
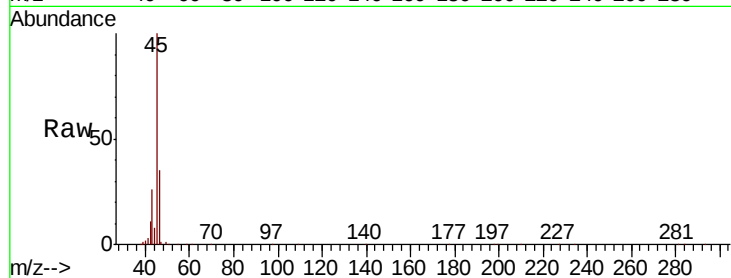
45 100

46 36.9 17.7 70.7

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#15

Acetone

Concen: 3.622 ppbv m

RT: 3.84 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL036385.D

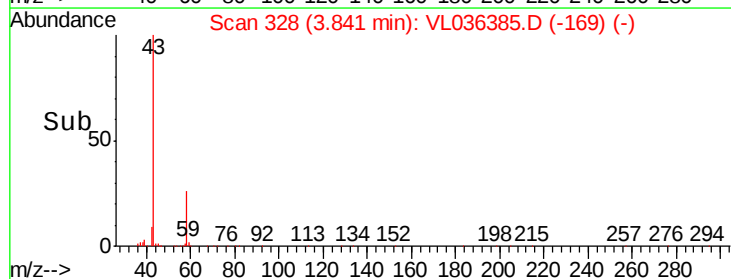
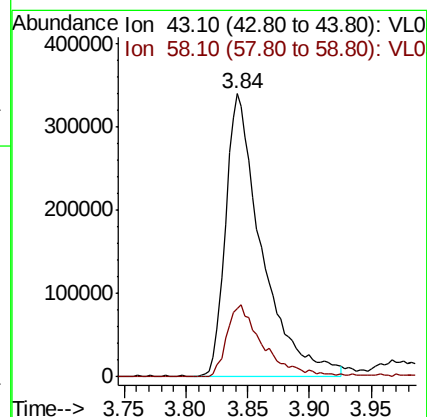
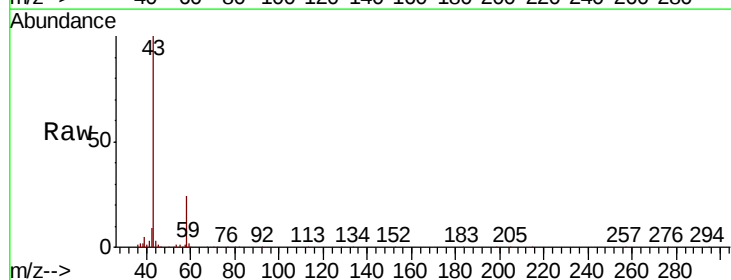
Acq: 25 Feb 2021 17:38

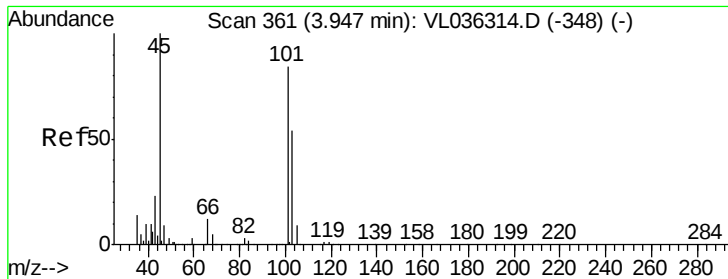
Tgt Ion: 43 Resp: 696179

Ion Ratio Lower Upper

43 100

58 26.0 20.3 30.5





#19

Isopropyl Alcohol

Concen: 0.841 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

NS-6

Tot Ion: 45 Resp: 89507

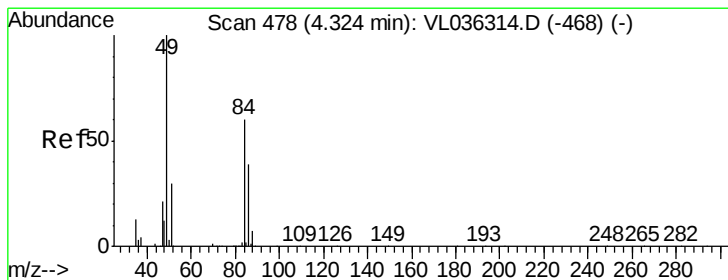
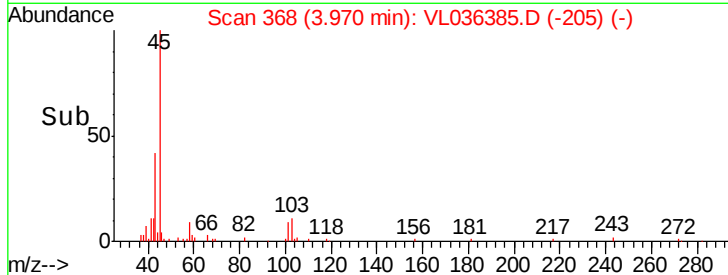
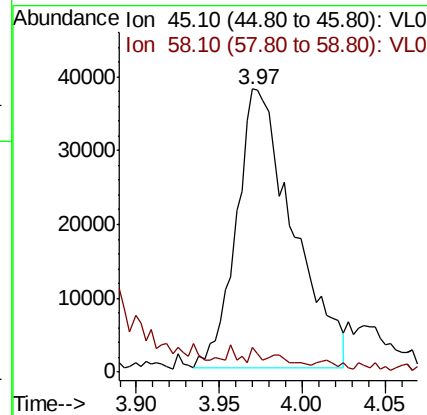
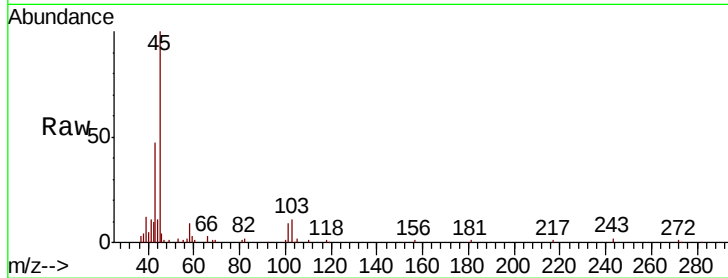
Ion Ratio Lower Upper

45 100

58 8.5 1.9 2.9#

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#20

Methylene Chloride

Concen: 21.391 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Tgt Ion: 84 Resp: 1326354

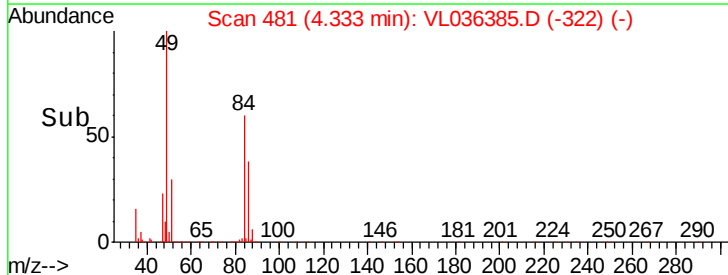
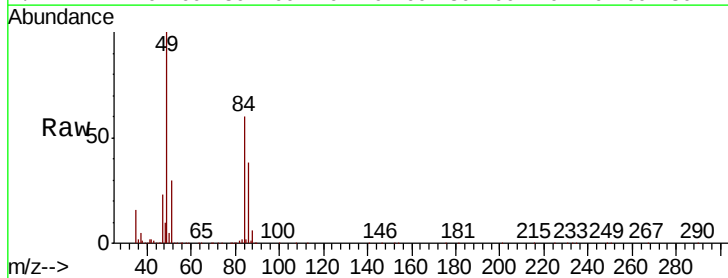
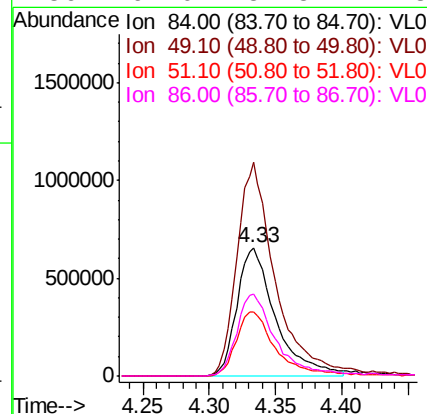
Ion Ratio Lower Upper

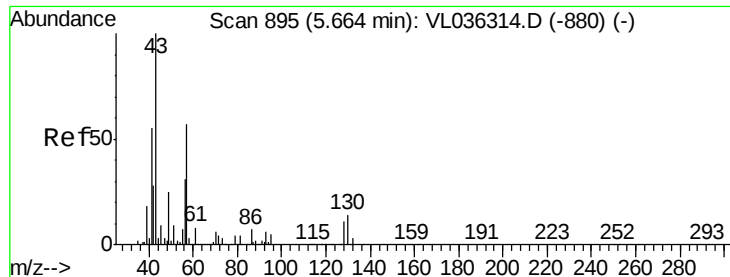
84 100

49 166.5 133.8 200.8

51 49.5 41.4 62.0

86 64.0 51.5 77.3





#26

Hexane

Concen: 16.356 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

NS-6

Tot Ion: 57 Resp: 2493385

Ion Ratio Lower Upper

57 100

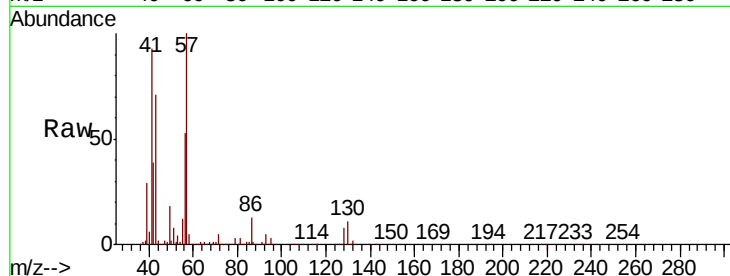
41 95.3 81.7 122.5

43 74.5 199.1 298.7#

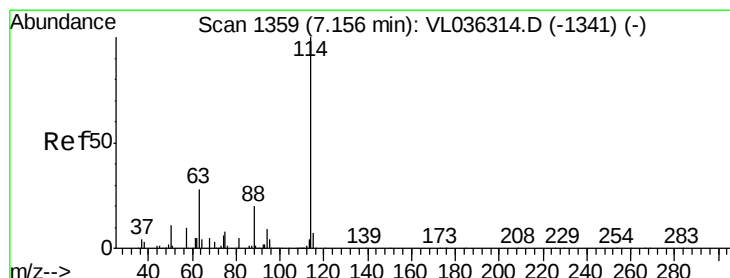
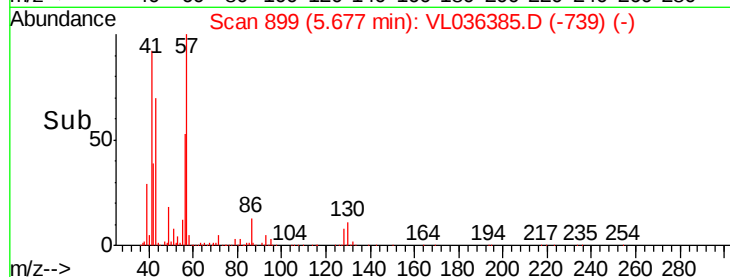
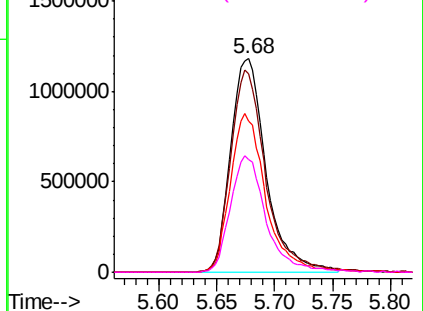
56 55.1 44.0 66.0

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Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

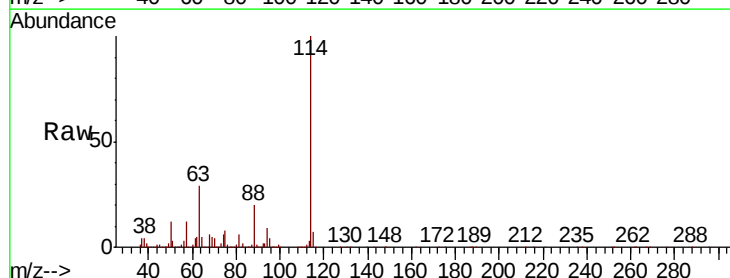
Tgt Ion:114 Resp: 3485293

Ion Ratio Lower Upper

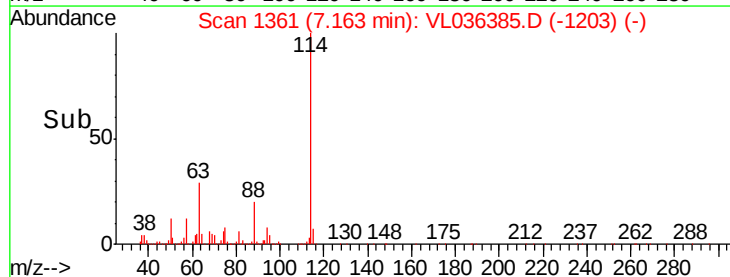
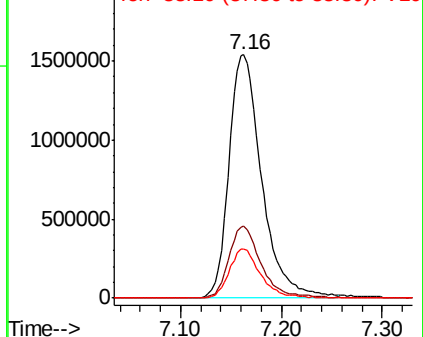
114 100

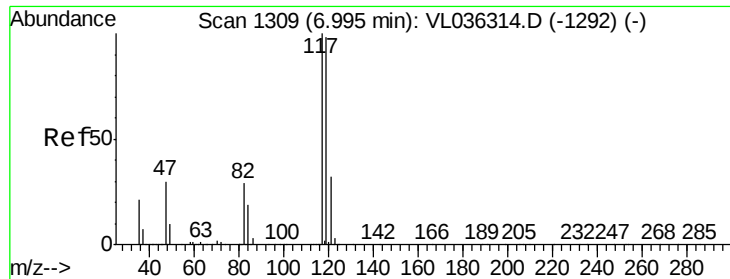
63 29.2 24.1 36.1

88 19.6 16.0 24.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.077 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

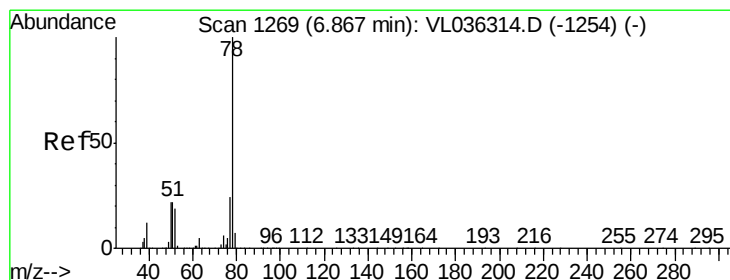
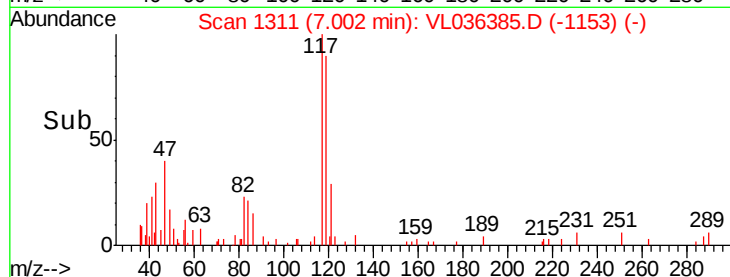
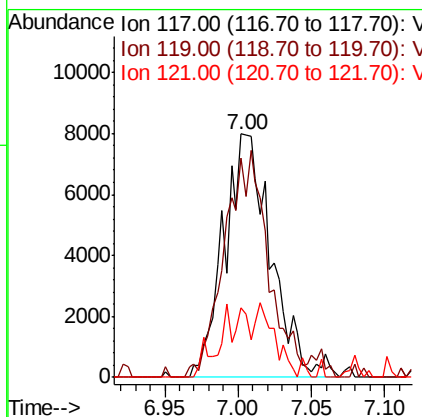
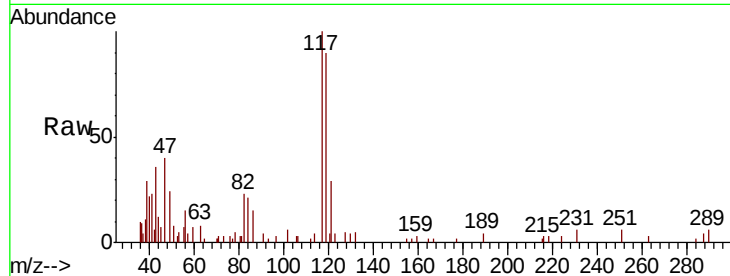
ClientSampled :

NS-6

Tot Ion:	117	Resp:	17883
Ion Ratio	Lower	Upper	
117	100		
119	90.3	78.1	117.1
121	28.8	25.8	38.8

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3/1/2021 10:02:46 AM



#36

Benzene

Concen: 0.261 ppbv m

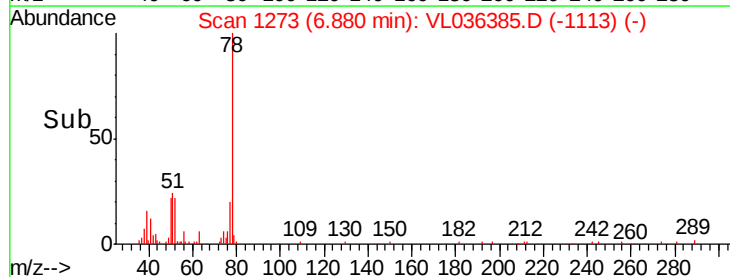
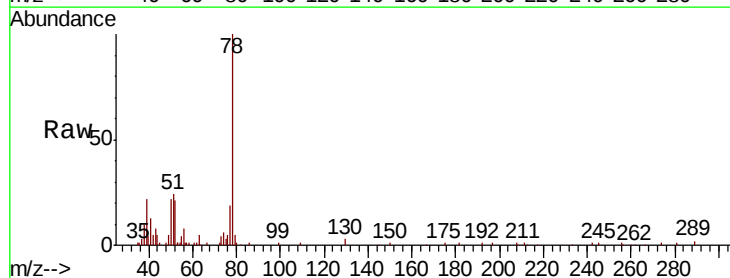
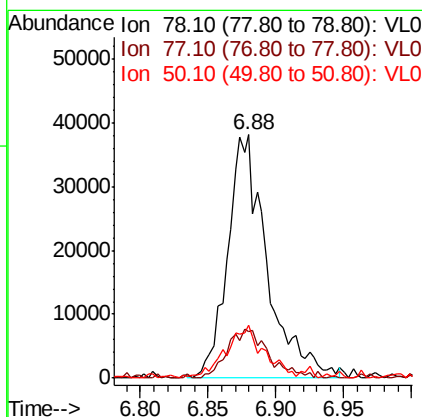
RT: 6.88 min Scan# 1273

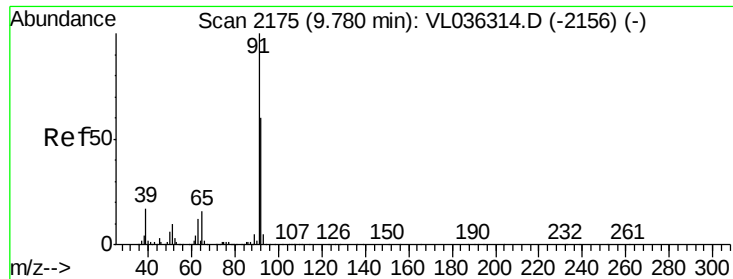
Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Tgt Ion:	78	Resp:	77322
Ion Ratio	Lower	Upper	
78	100		
77	19.2	18.9	28.3
50	22.0	17.3	25.9





#53

Toluene

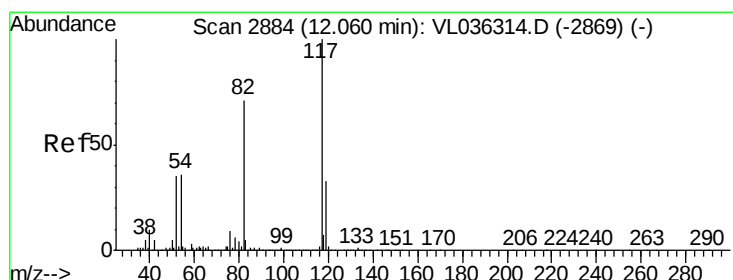
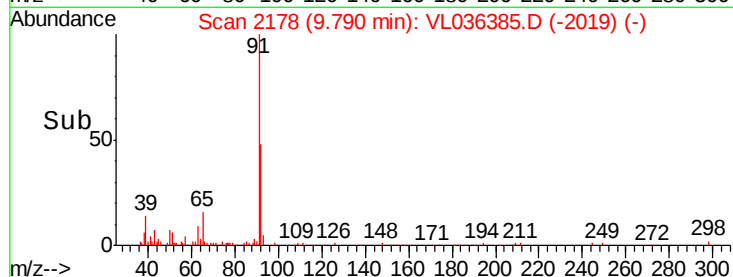
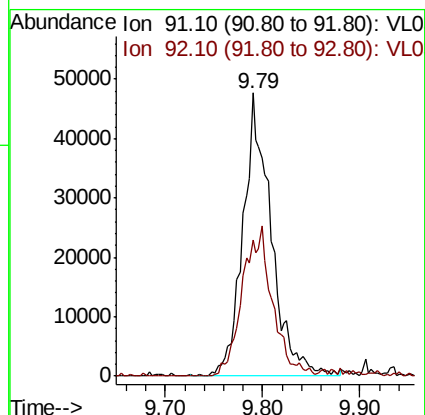
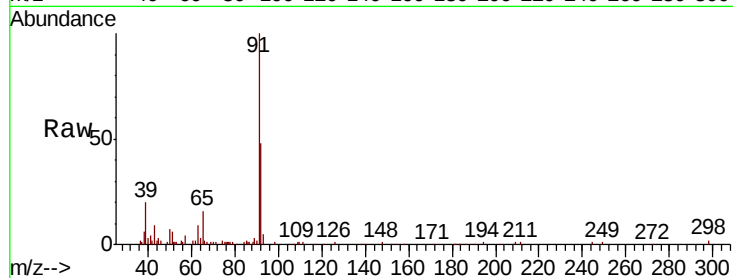
Concen: 0.299 ppbv m
RT: 9.79 min Scan# 2178
Delta R.T. 0.01 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

Instrument :
MSVOA_L
ClientSampled :
NS-6

Tot Ion: 91 Resp: 95990
Ion Ratio Lower Upper
91 100
92 57.1 48.6 72.8

Manual Integrations
APPROVED

MMDadoda
3/1/2021 10:02:46 AM

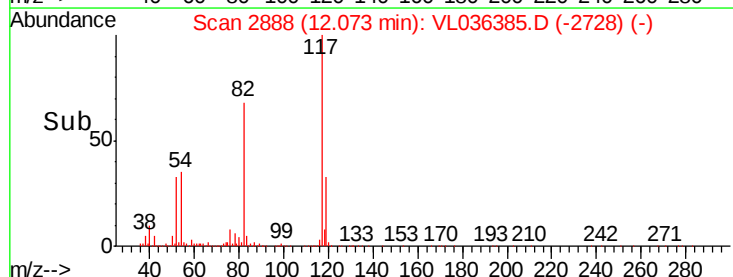
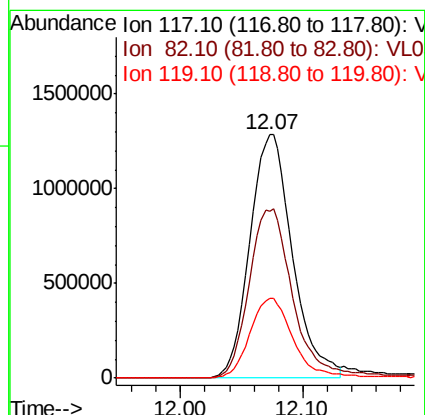
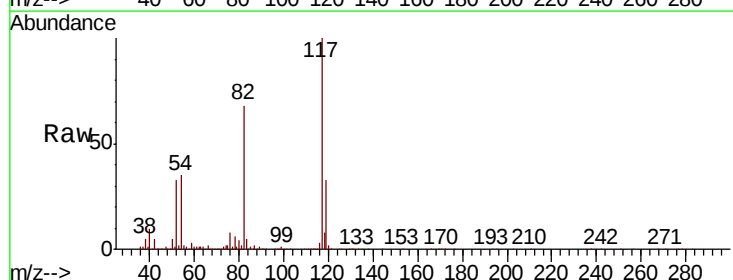


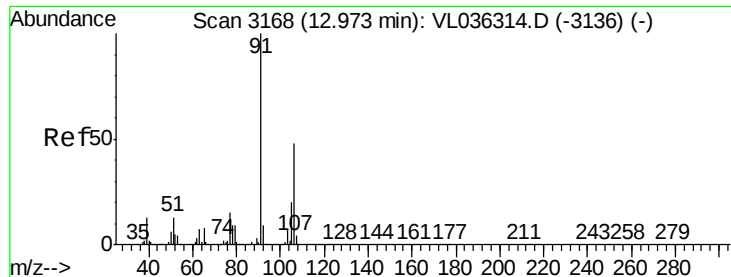
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. 0.01 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

Tgt Ion: 117 Resp: 3104212
Ion Ratio Lower Upper
117 100
82 73.5 59.1 88.7
119 34.0 46.3 69.5#





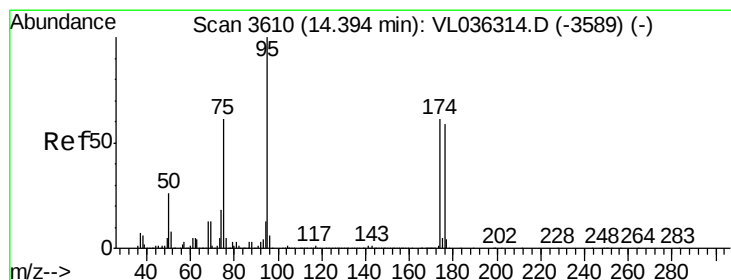
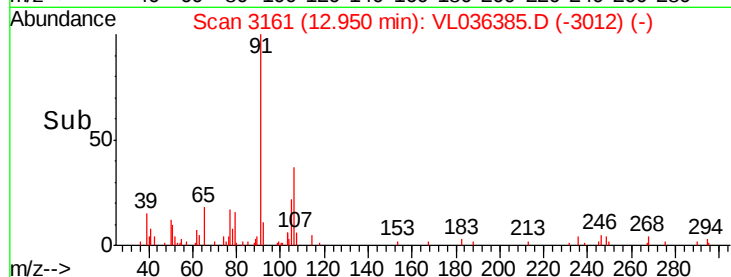
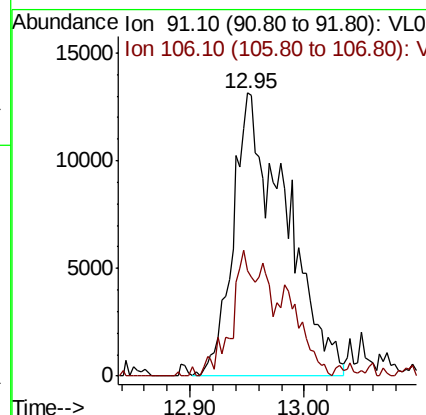
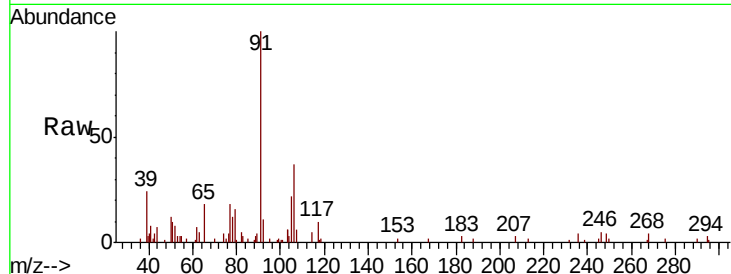
#59
m/p-Xylene
Concen: 0.112 ppbv m
RT: 12.95 min Scan# 3161
Delta R.T. -0.02 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

Instrument :
MSVOA_L
ClientSampled :
NS-6

Tot Ion: 91 Resp: 41859
Ion Ratio Lower Upper
91 100
106 0.0 34.2 51.2#

Manual Integrations
APPROVED

MMDadoda
3/1/2021 10:02:46 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. 0.01 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

Tgt Ion: 95 Resp: 2541375
Ion Ratio Lower Upper
95 100
174 62.7 49.8 74.6
175 4.5 3.7 5.5

