

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036353.D
 Acq On : 24 Feb 2021 16:42
 Operator : SY/AP
 Sample : M1463-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-12

Manual Integrations
 APPROVED

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 2/26/2021 4:17:06 PM

Quant Time: Feb 26 13:57:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 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	5.68	49	1631329	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3625241	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3247759	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2590504	9.69	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	44409	0.182	ppbv	100
3) Chlorodifluoromethane	2.99	51	63699m	0.314	ppbv	
4) Chloromethane	3.14	50	51305	0.524	ppbv	93
9) Propene	3.02	41	71887	0.951	ppbv #	80
11) Trichlorofluoromethane	3.95	101	48873	0.205	ppbv	95
13) Ethanol	3.62	45	512831m	36.129	ppbv	
15) Acetone	3.86	43	649995	3.260	ppbv	97
19) Isopropyl Alcohol	3.99	45	165142m	1.495	ppbv	
20) Methylene Chloride	4.35	84	2706978	42.077	ppbv	95
26) Hexane	5.69	57	689069	4.356	ppbv #	39
35) Carbon Tetrachloride	7.03	117	16116m	0.066	ppbv	
36) Benzene	6.90	78	70064	0.228	ppbv	94
53) Toluene	9.82	91	91787m	0.275	ppbv	
59) m/p-Xylene	12.98	91	38481m	0.099	ppbv	

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

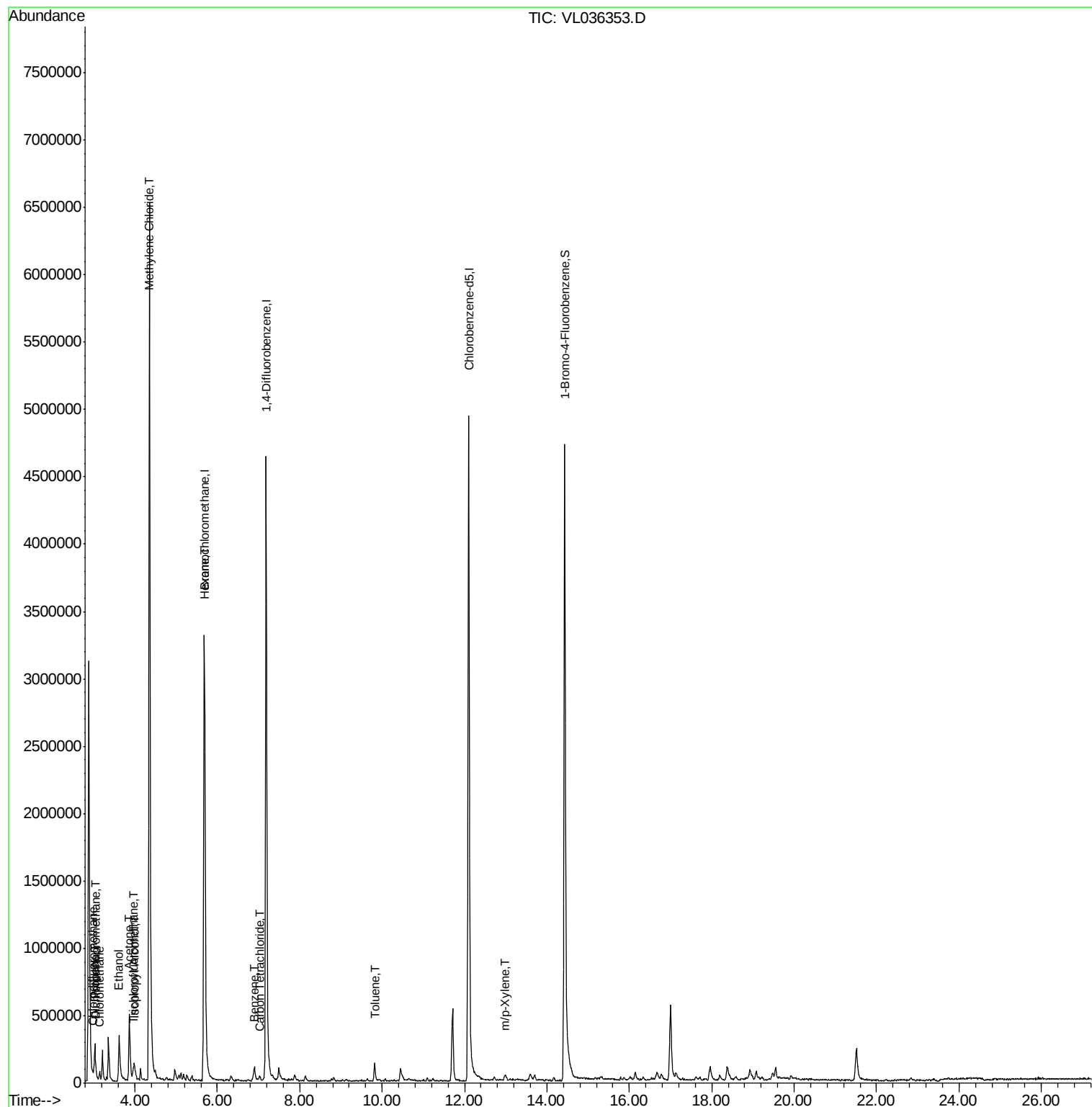
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022421\
Data File : VL036353.D
Acq On : 24 Feb 2021 16:42
Operator : SY/AP
Sample : M1463-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

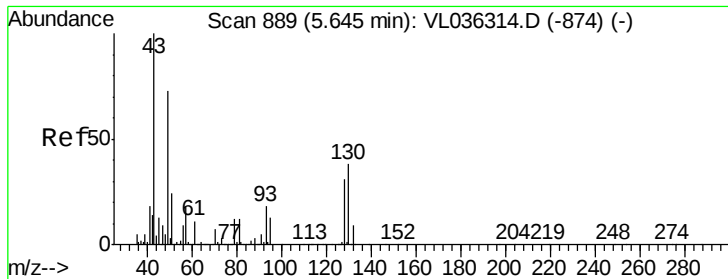
Instrument :
MSVOA_L
ClientSampleId :
NS-12

Manual Integrations
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Quant Time: Feb 26 13:57:39 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

Instrument :

MSVOA_L

ClientSampled :

NS-12

Tot Ion: 49 Resp: 1631329

Ion Ratio Lower Upper

49 100

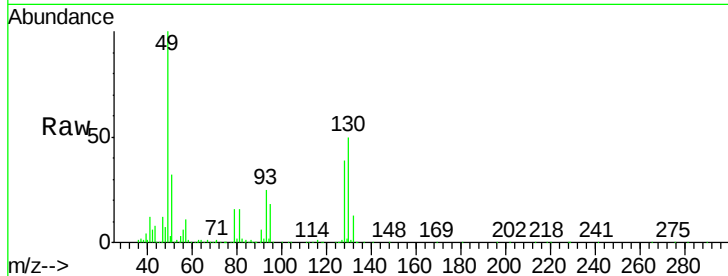
128 42.9 20.8 62.5

130 54.4 26.7 80.1

Manual Integrations
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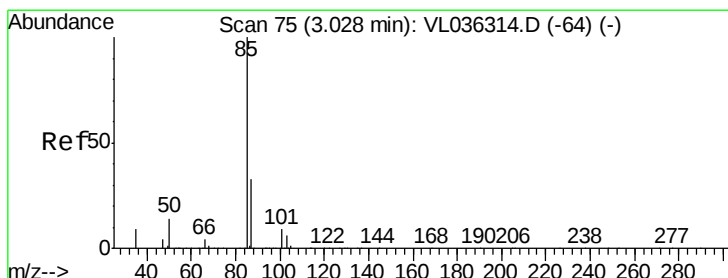
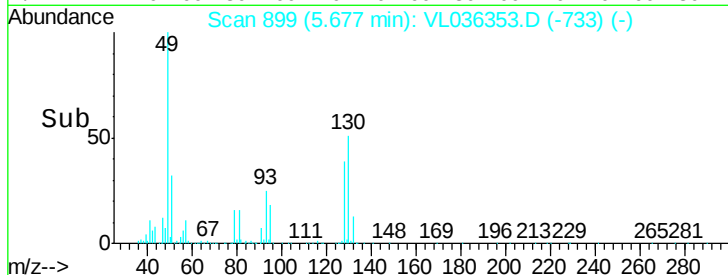
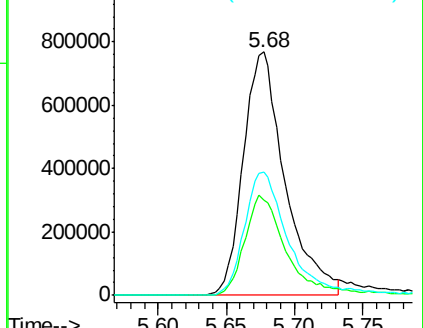
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.182 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.03 min

Lab File: VL036353.D

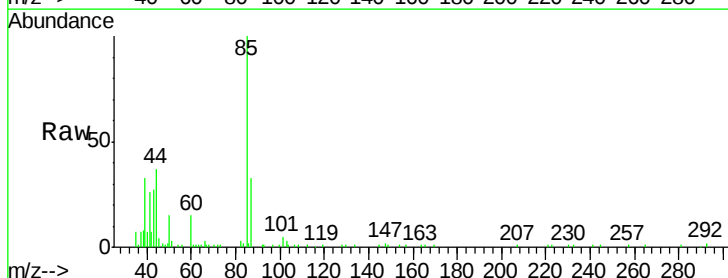
Acq: 24 Feb 2021 16:42

Tgt Ion: 85 Resp: 44409

Ion Ratio Lower Upper

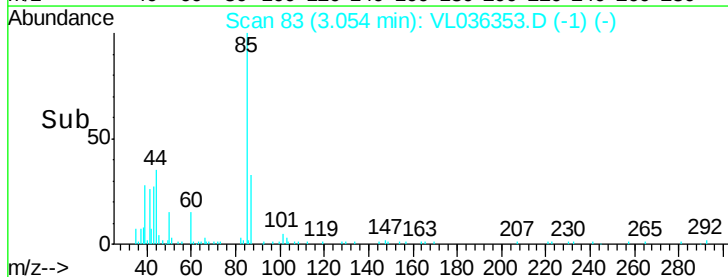
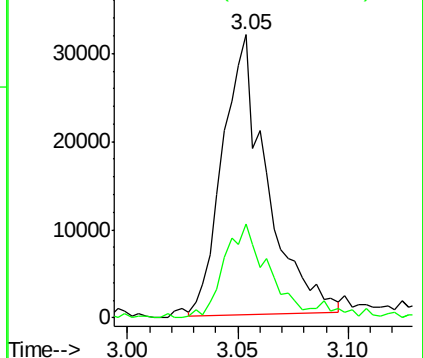
85 100

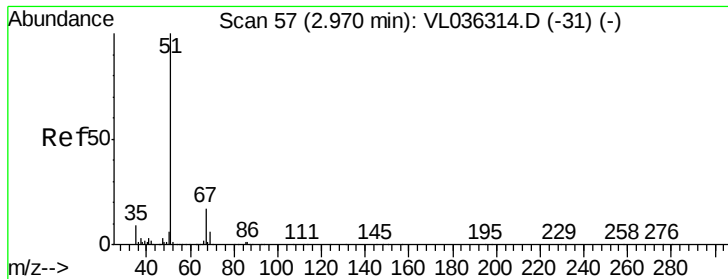
87 33.1 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.314 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.02 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

Instrument :

MSVOA_L

ClientSampled :

NS-12

Tot Ion: 51 Resp: 63699

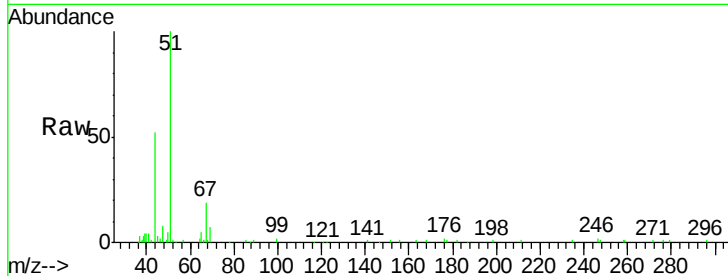
Ion Ratio Lower Upper

51 100

67 18.6 14.7 22.1

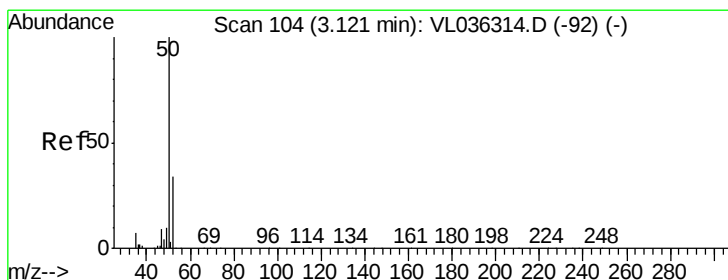
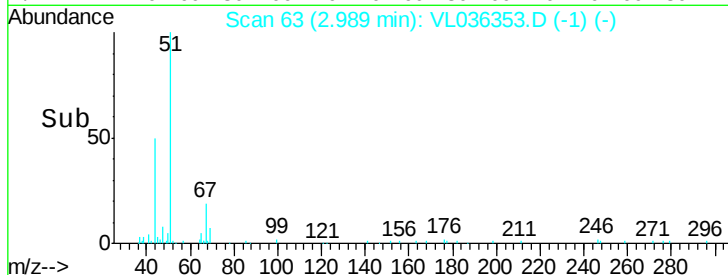
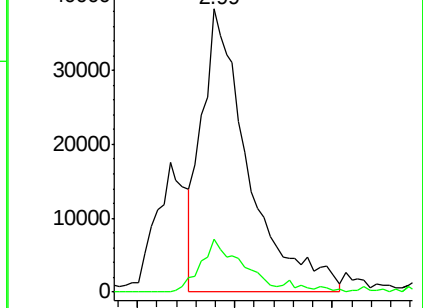
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.524 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.02 min

Lab File: VL036353.D

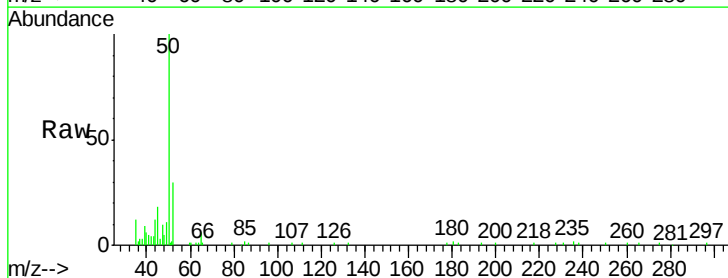
Acq: 24 Feb 2021 16:42

Tgt Ion: 50 Resp: 51305

Ion Ratio Lower Upper

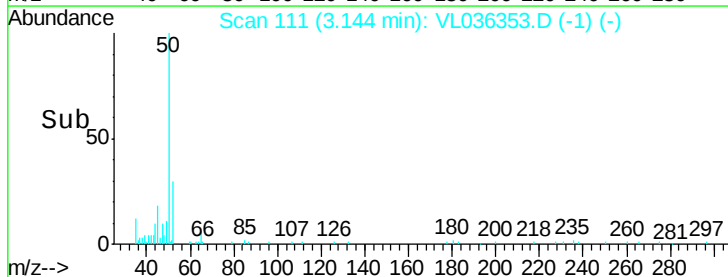
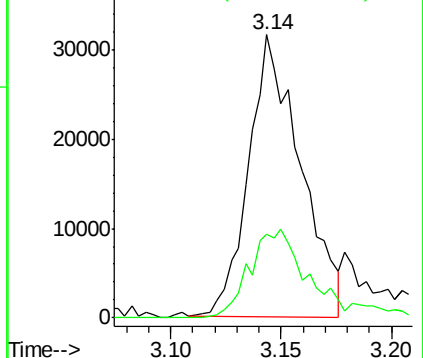
50 100

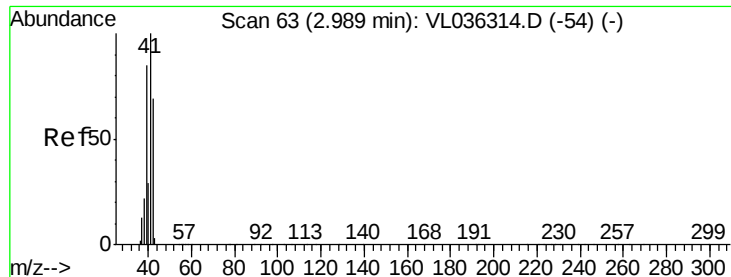
52 30.0 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





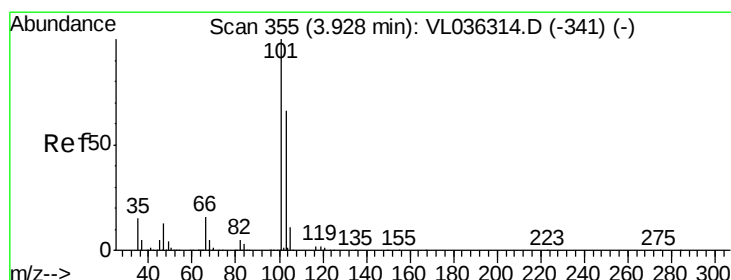
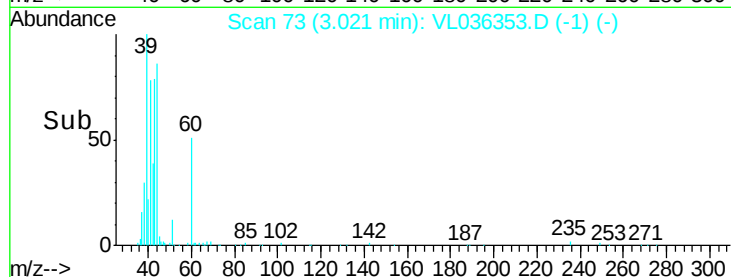
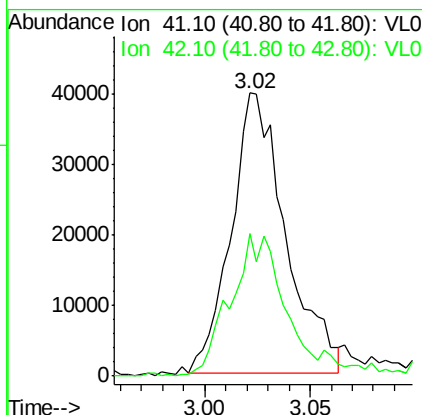
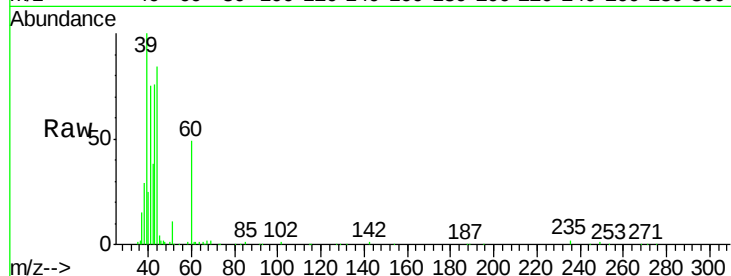
#9
 Propene
 Concen: 0.951 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. 0.03 min
 Lab File: VL036353.D
 Acq: 24 Feb 2021 16:42

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-12

Tot Ion: 41 Resp: 71887
 Ion Ratio Lower Upper
 41 100
 42 53.6 56.2 84.2#

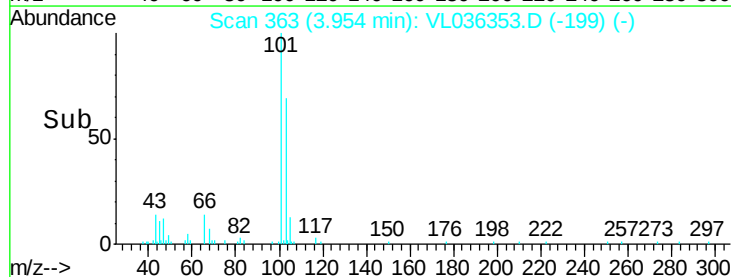
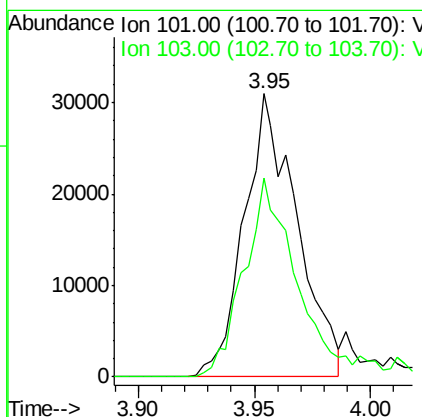
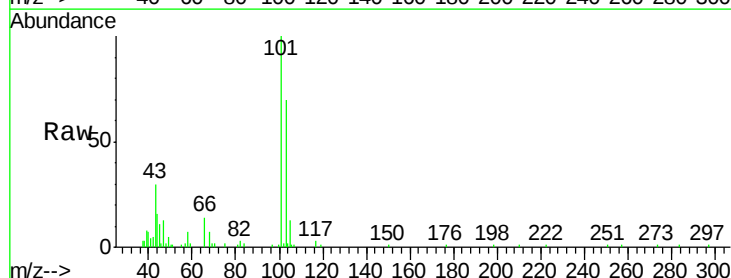
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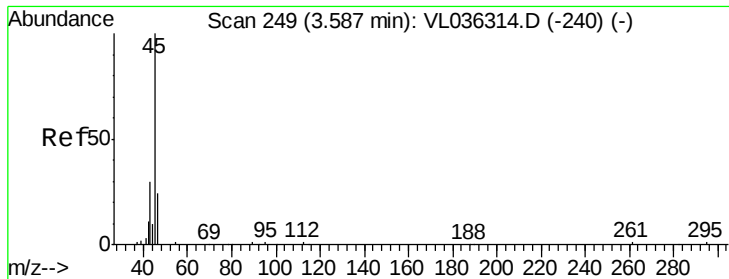
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#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.03 min
 Lab File: VL036353.D
 Acq: 24 Feb 2021 16:42

Tgt Ion: 101 Resp: 48873
 Ion Ratio Lower Upper
 101 100
 103 70.4 52.9 79.3





#13

Ethanol

Concen: 36.129 ppbv m

RT: 3.62 min Scan# 258

Delta R.T. 0.03 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

Tot Ion: 45 Resp: 512831

Ion Ratio Lower Upper

45 100

46 34.4 17.7 70.7

Instrument :

MSVOA_L

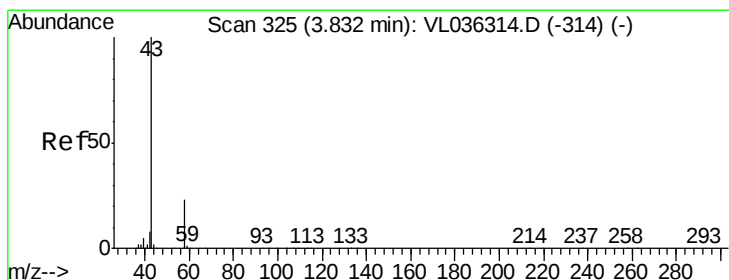
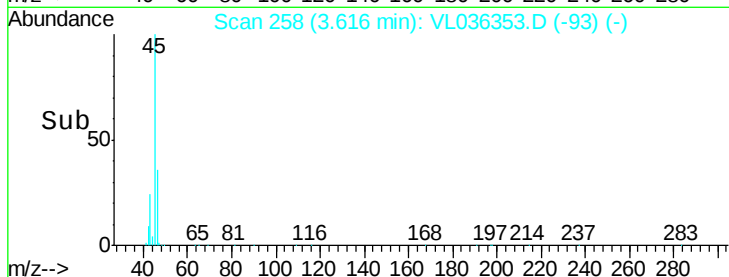
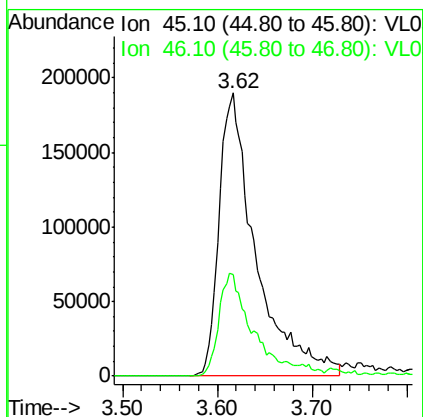
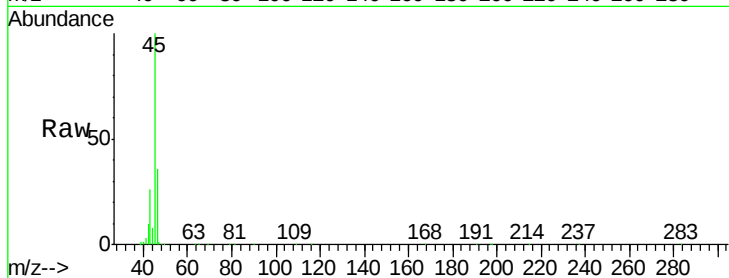
ClientSampleId :

NS-12

Manual Integrations
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#15

Acetone

Concen: 3.260 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.03 min

Lab File: VL036353.D

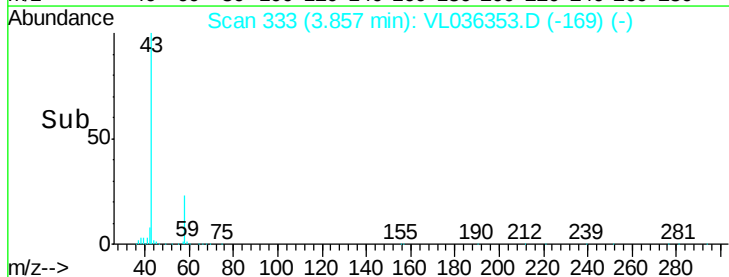
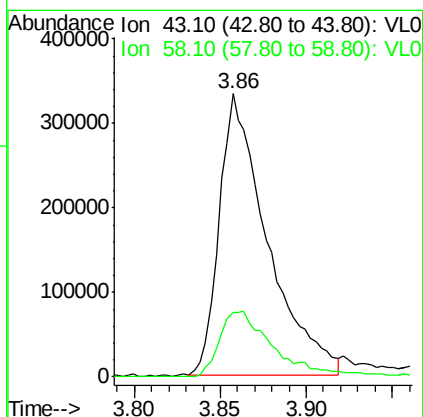
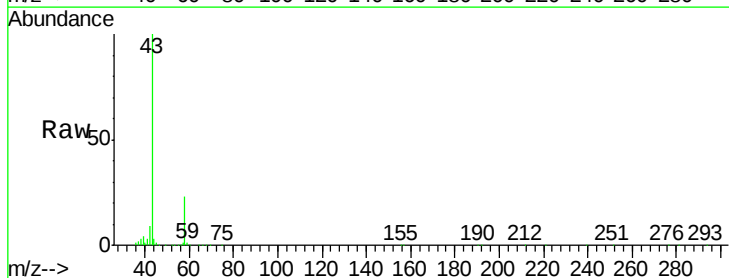
Acq: 24 Feb 2021 16:42

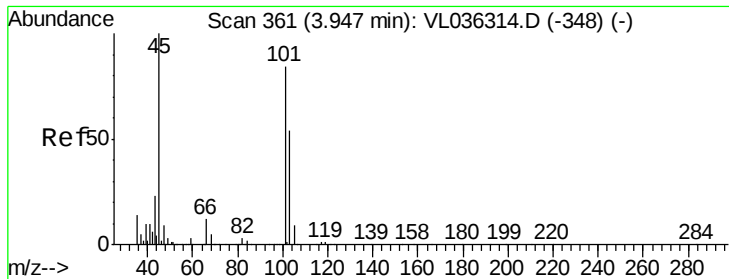
Tgt Ion: 43 Resp: 649995

Ion Ratio Lower Upper

43 100

58 26.7 20.3 30.5





#19

Isopropyl Alcohol

Concen: 1.495 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.04 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

NS-12

Tot Ion: 45 Resp: 165142

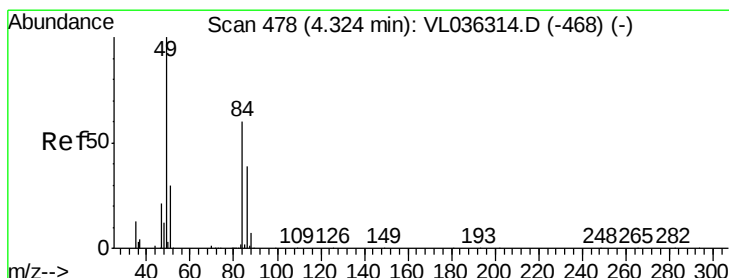
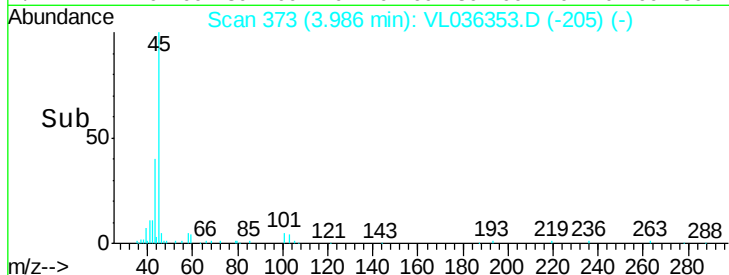
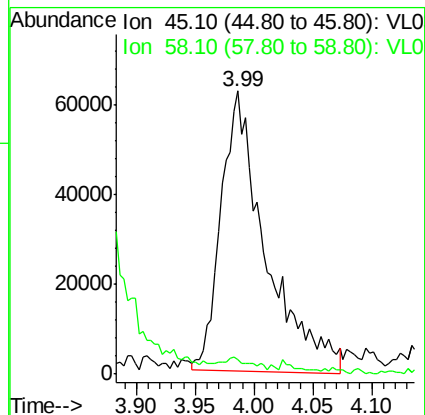
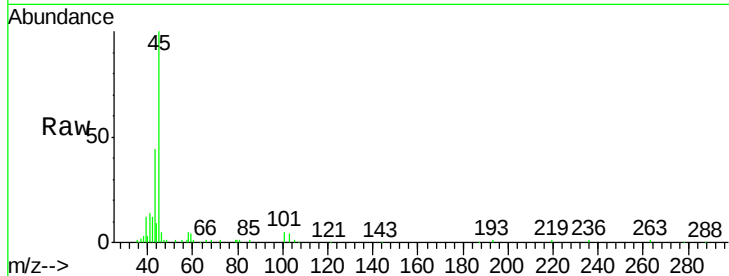
Ion Ratio Lower Upper

45 100

58 5.2 1.9 2.9#

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#20

Methylene Chloride

Concen: 42.077 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.03 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

Tgt Ion: 84 Resp: 2706978

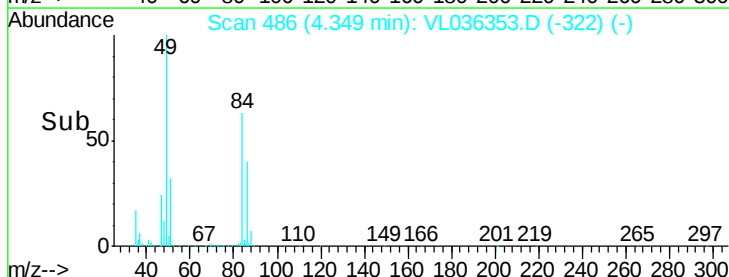
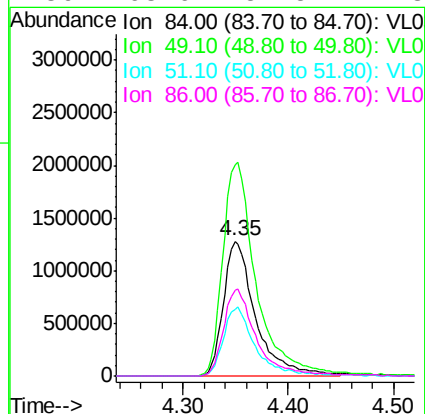
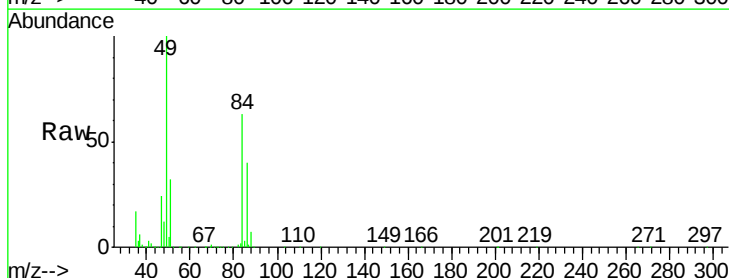
Ion Ratio Lower Upper

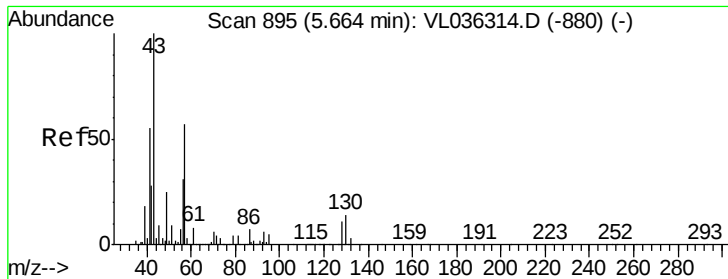
84 100

49 157.6 133.8 200.8

51 49.8 41.4 62.0

86 63.6 51.5 77.3





#26

Hexane

Concen: 4.356 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.03 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

NS-12

Tot Ion: 57 Resp: 689069

Ion Ratio Lower Upper

57 100

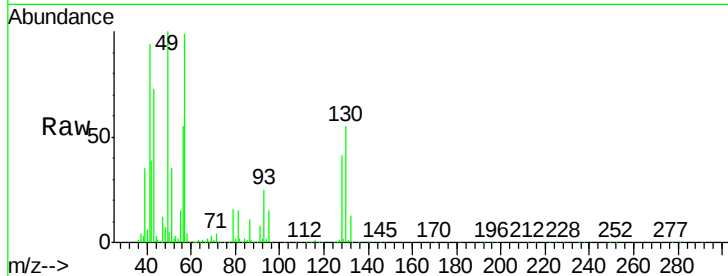
41 100.2 81.7 122.5

43 78.6 199.1 298.7#

56 56.1 44.0 66.0

Manual Integrations
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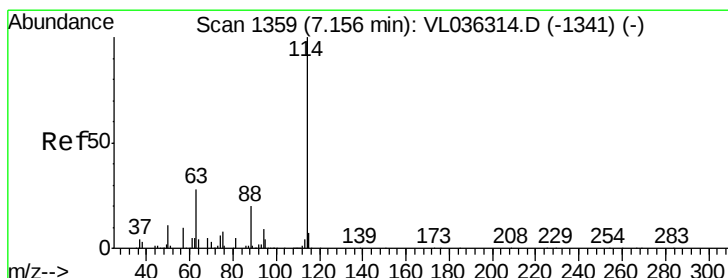
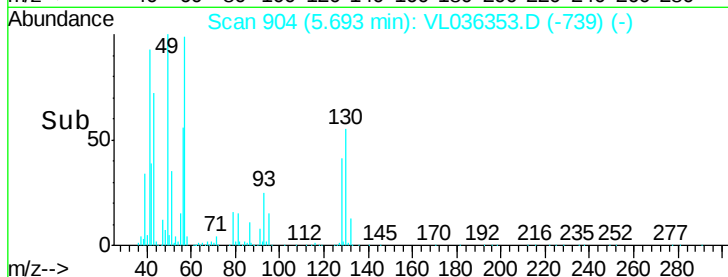
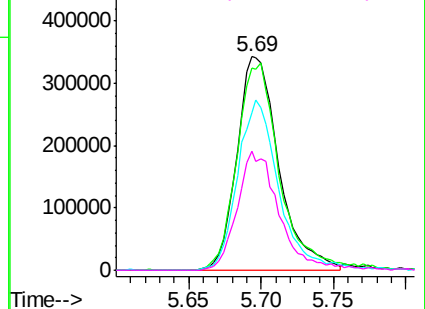


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.19 min Scan# 1368

Delta R.T. 0.03 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

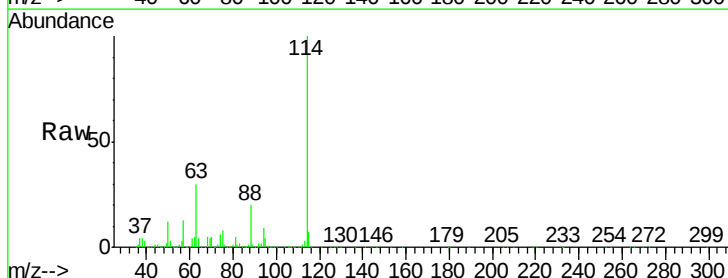
Tgt Ion: 114 Resp: 3625241

Ion Ratio Lower Upper

114 100

63 29.8 24.1 36.1

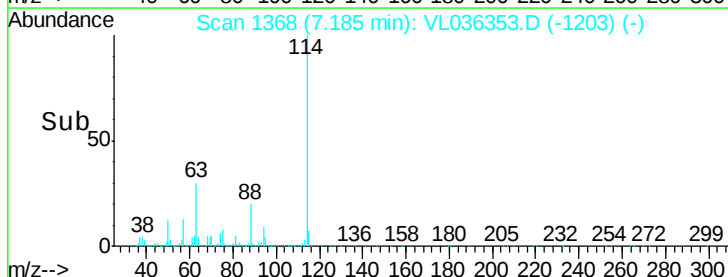
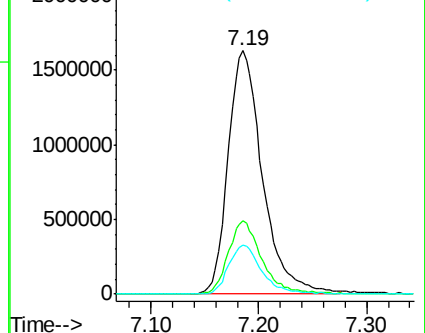
88 19.6 16.0 24.0

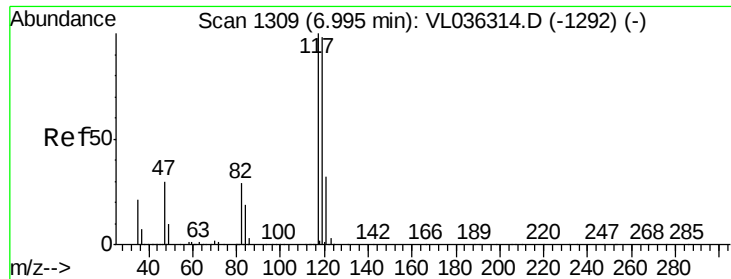


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





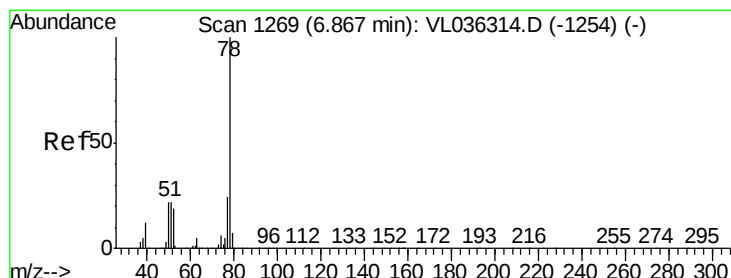
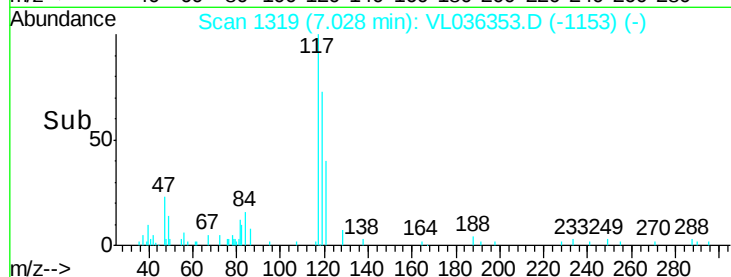
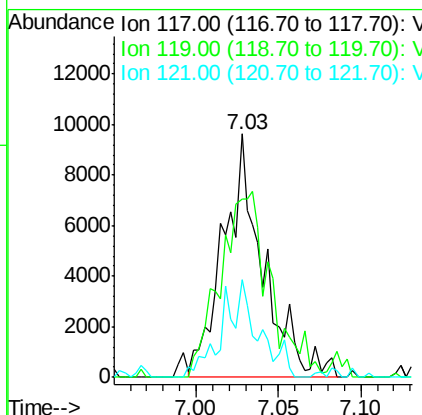
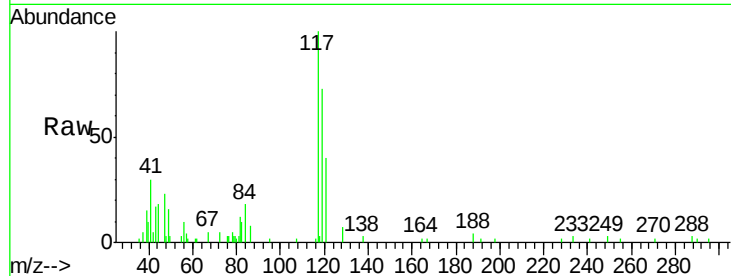
#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. 0.03 min
Lab File: VL036353.D
Acq: 24 Feb 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
NS-12

Tot Ion	Ratio	Lower	Upper
117	100		
119	73.4	78.1	117.1#
121	40.2	25.8	38.8#

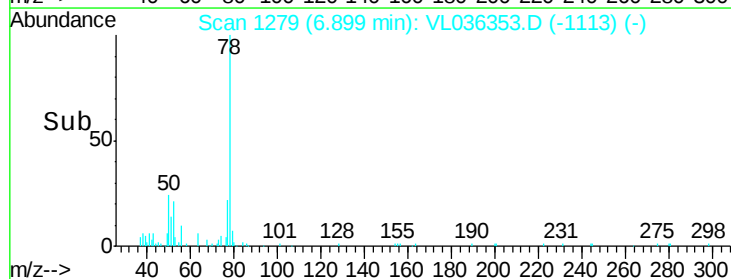
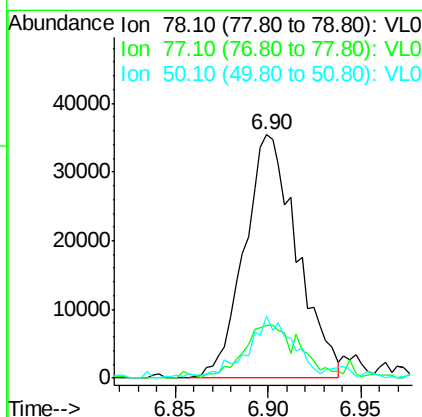
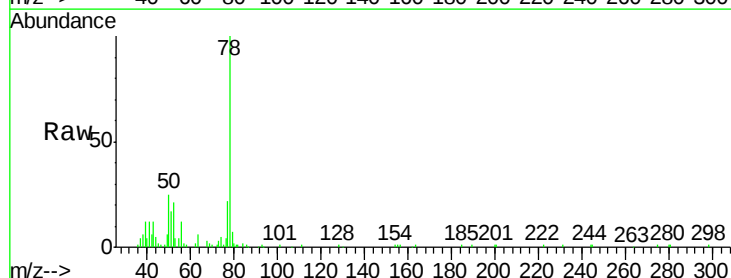
Manual Integrations
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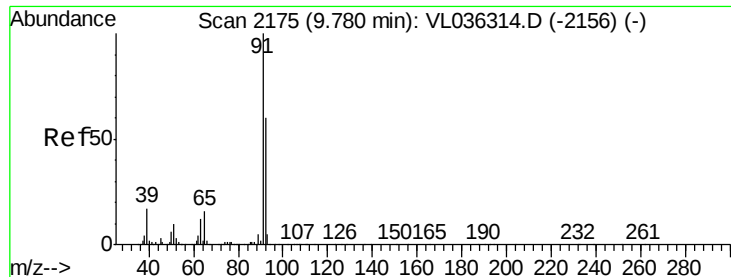
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#36
Benzene
Concen: 0.228 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.03 min
Lab File: VL036353.D
Acq: 24 Feb 2021 16:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.1	18.9	28.3
50	23.6	17.3	25.9





#53

Toluene

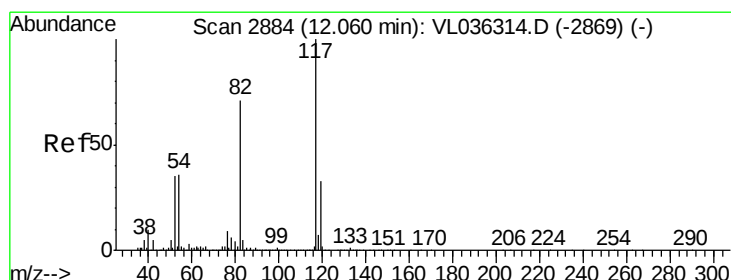
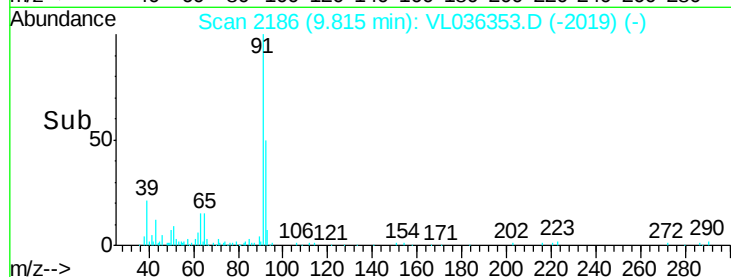
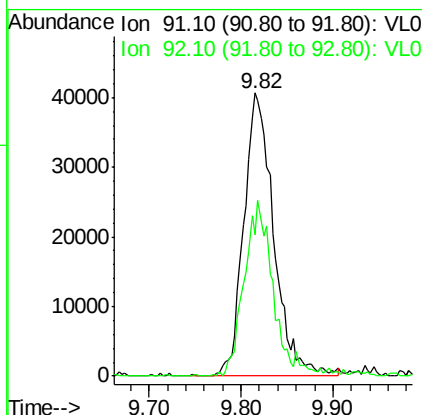
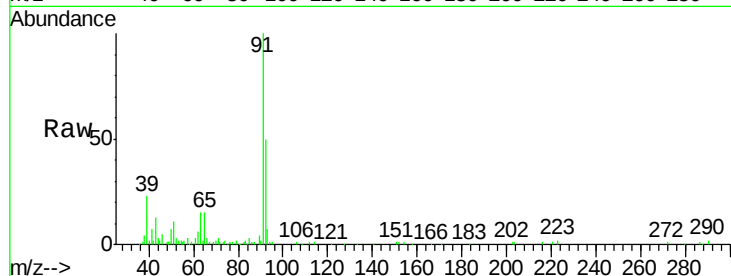
Concen: 0.275 ppbv m
RT: 9.82 min Scan# 2186
Delta R.T. 0.04 min
Lab File: VL036353.D
Acq: 24 Feb 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
NS-12

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.6	72.8

Manual Integrations
APPROVED

MMDadoda
2/26/2021 4:17:06 PM

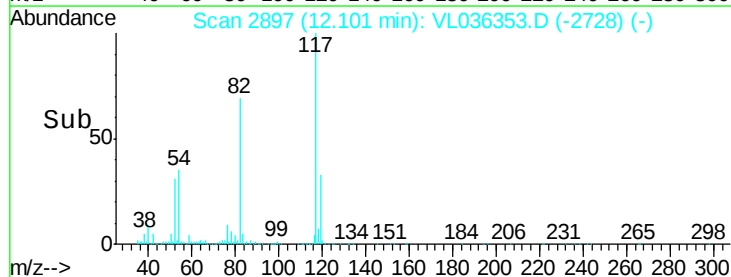
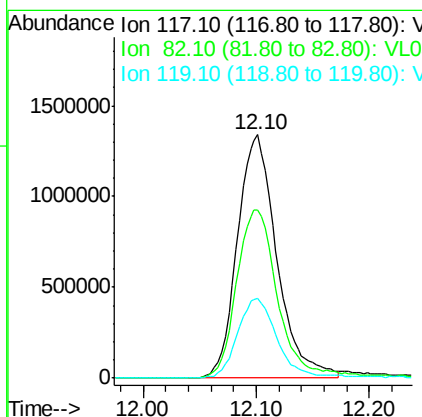
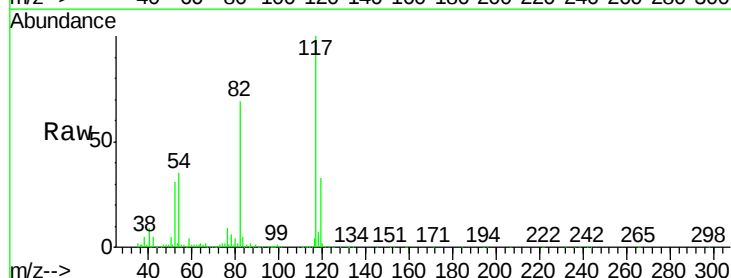


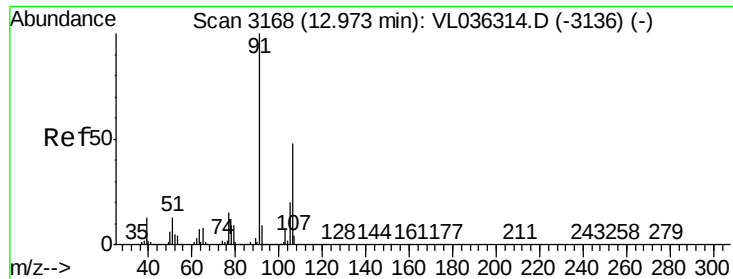
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.04 min
Lab File: VL036353.D
Acq: 24 Feb 2021 16:42

Tgt Ion	Ratio	Lower	Upper
117	100		
82	74.3	59.1	88.7
119	34.2	46.3	69.5





#59

m/p-Xylene

Concen: 0.099 ppbv m

RT: 12.98 min Scan# 3170

Delta R.T. 0.01 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

Instrument :

MSVOA_L

ClientSampled :

NS-12

Tot Ion: 91 Resp: 38481

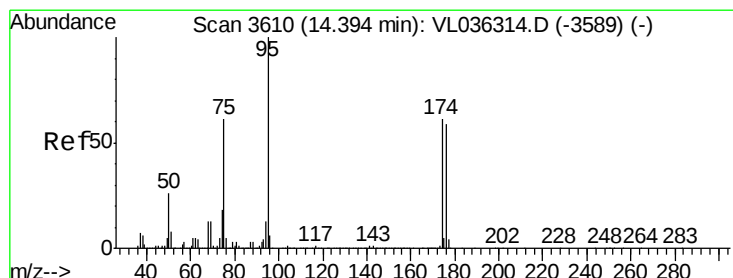
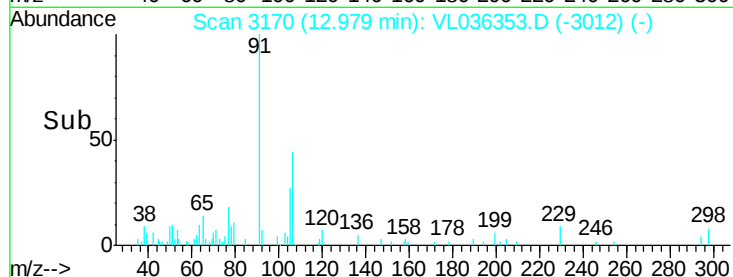
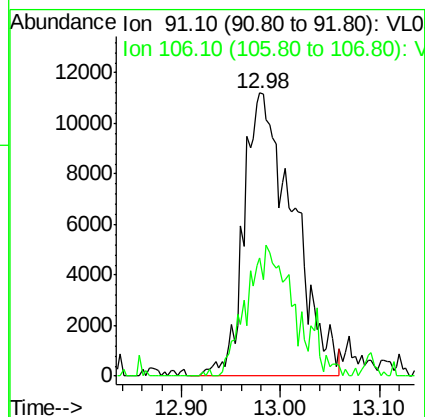
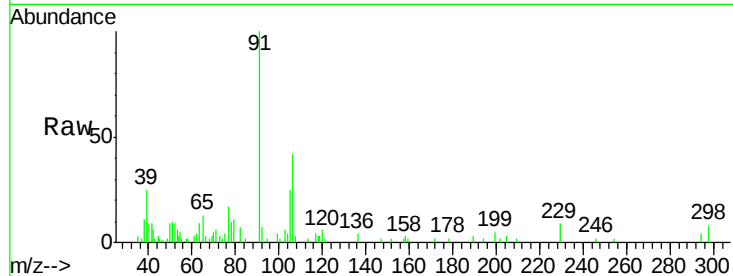
Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.2#

Manual Integrations
APPROVED

MMDadoda
2/26/2021 4:17:06 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.694 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.04 min

Lab File: VL036353.D

Acq: 24 Feb 2021 16:42

Tgt Ion: 95 Resp: 2590504

Ion Ratio Lower Upper

95 100

174 64.9 49.8 74.6

175 4.7 3.7 5.5

