

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036980.D
 Acq On : 18 May 2021 22:15
 Operator : SY/AP
 Sample : M2430-03DL2 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:56:11 PM

Quant Time: May 20 16:23:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1294842	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3781282	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3460114	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2586291	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	96681	0.408	ppbv	94
9) Propene	3.00	41	20694m	0.244	ppbv	
13) Ethanol	3.61	45	69221m	6.108	ppbv	
15) Acetone	3.84	43	1472262	11.101	ppbv	99
19) Isopropyl Alcohol	3.99	45	49088m	0.689	ppbv	
20) Methylene Chloride	4.33	84	65553	0.922	ppbv	96
26) Hexane	5.67	57	53665	0.330	ppbv #	51
29) Chloroform	5.74	83	31549	0.137	ppbv	96
34) 2-Butanone	5.24	43	72187m	0.524	ppbv	
38) Trichloroethene	7.81	130	44827	0.322	ppbv	91
52) Tetrachloroethene	11.20	164	1215659	9.386	ppbv	97
53) Toluene	9.78	91	45801m	0.118	ppbv	
59) m/p-Xylene	12.95	91	74302m	0.184	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	61129	0.138	ppbv #	79

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

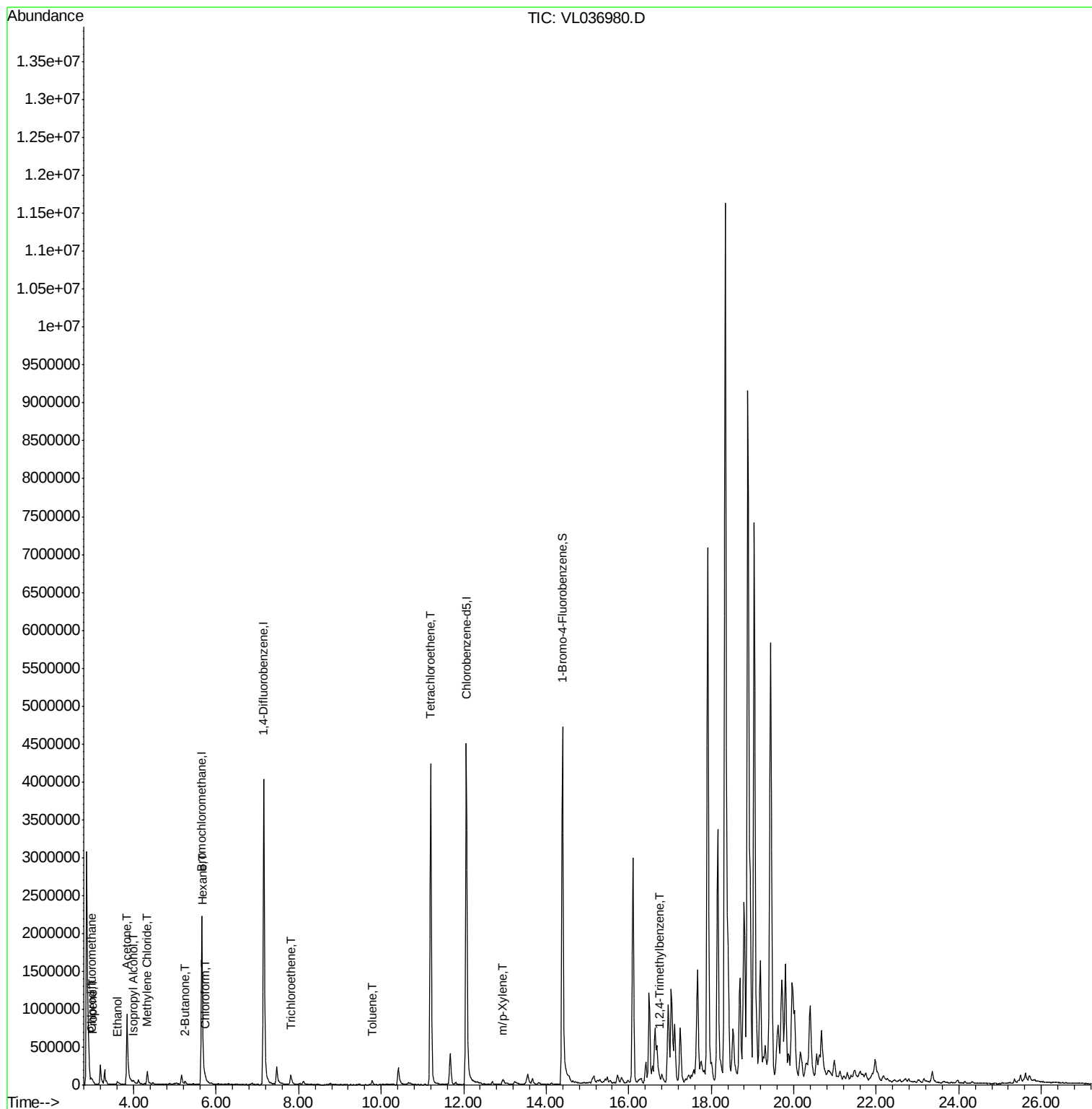
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051821\  
Data File : VL036980.D  
Acq On    : 18 May 2021  22:15  
Operator  : SY/AP  
Sample    : M2430-03DL2 20X  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1    Sample Multiplier: 1
```

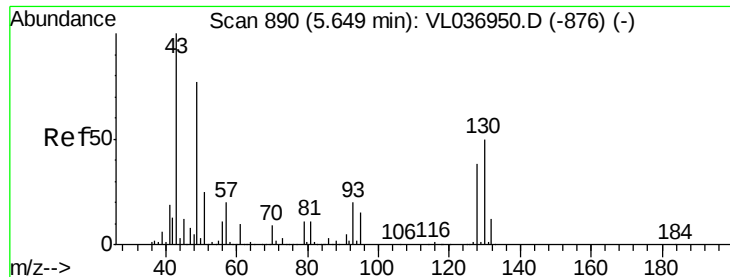
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

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Quant Time: May 20 16:23:15 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL036980.D

Acq: 18 May 2021 22:15

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion: 49 Resp: 1294842

Ion Ratio Lower Upper

49 100

128 54.3 26.9 80.7

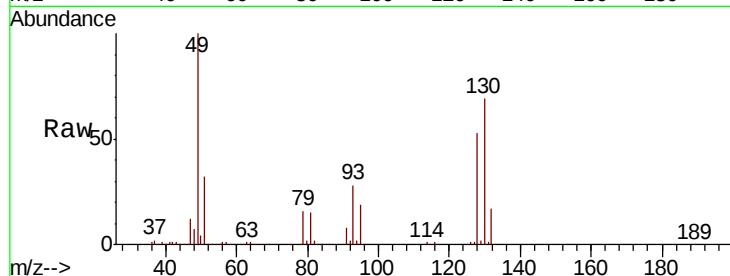
130 70.6 33.8 101.4

Manual Integrations

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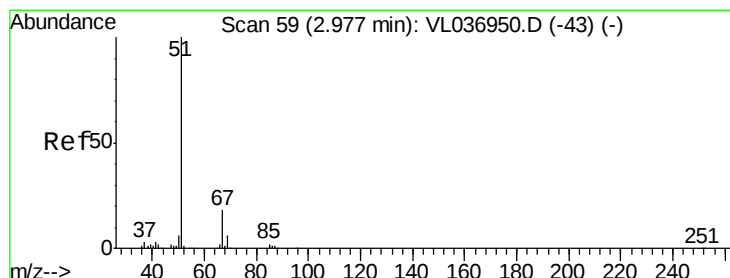
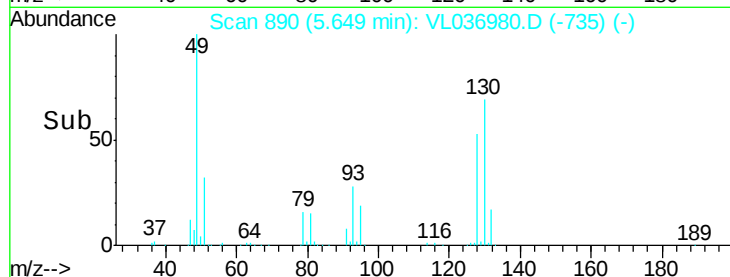
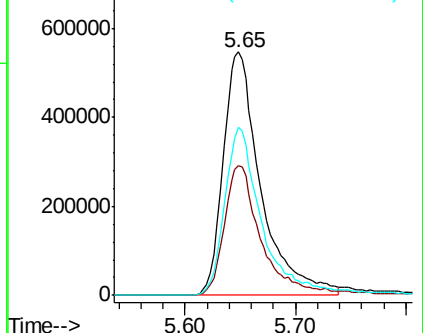
5/20/2021 5:56:11 PM



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



#3

Chlorodifluoromethane

Concen: 0.408 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036980.D

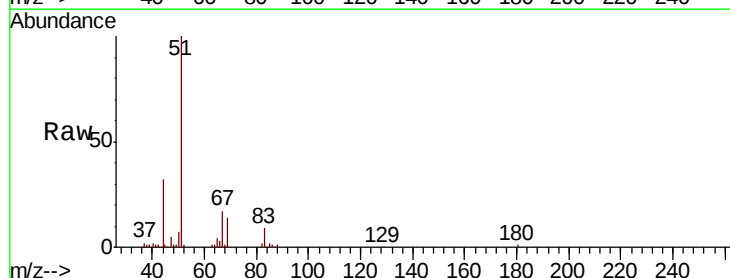
Acq: 18 May 2021 22:15

Tgt Ion: 51 Resp: 96681

Ion Ratio Lower Upper

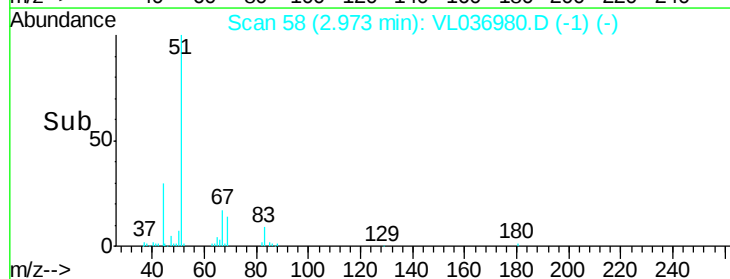
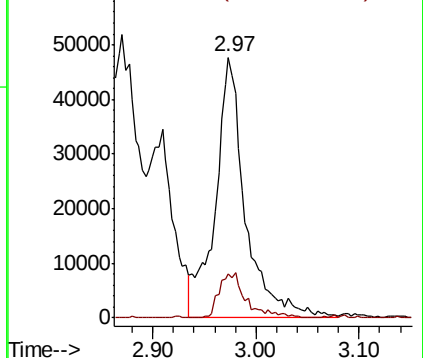
51 100

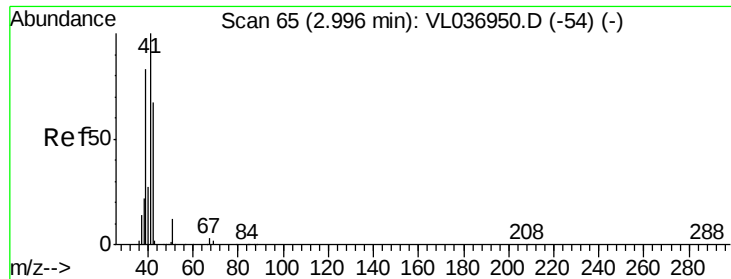
67 15.7 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





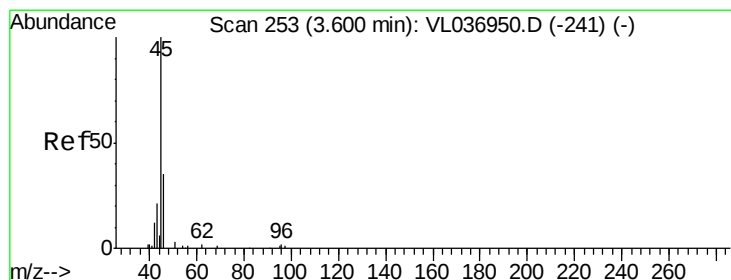
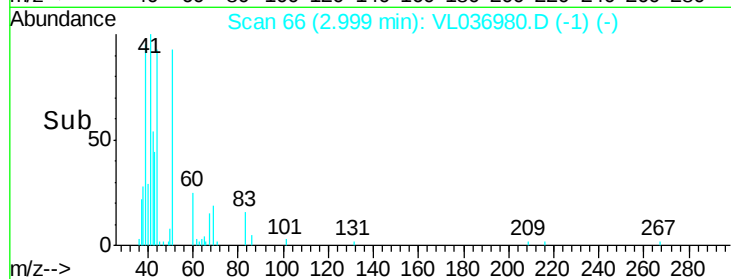
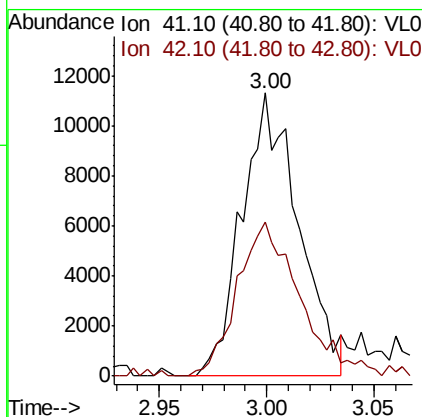
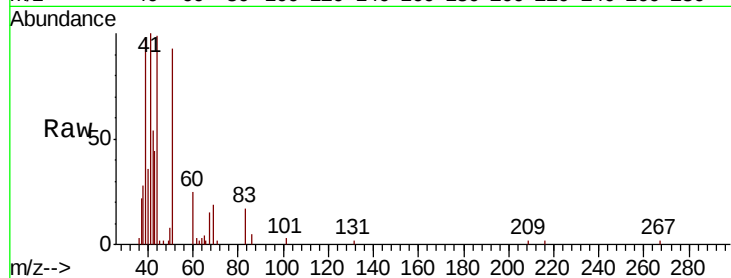
#9
 Propene
 Concen: 0.244 ppbv m
 RT: 3.00 min Scan# 66
 Delta R.T. 0.00 min
 Lab File: VL036980.D
 Acq: 18 May 2021 22:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tot Ion: 41 Resp: 20694
 Ion Ratio Lower Upper
 41 100
 42 60.7 53.9 80.9

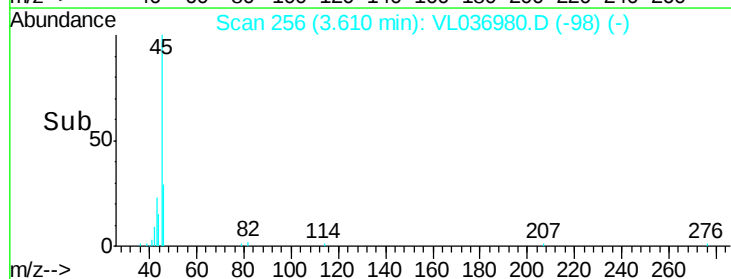
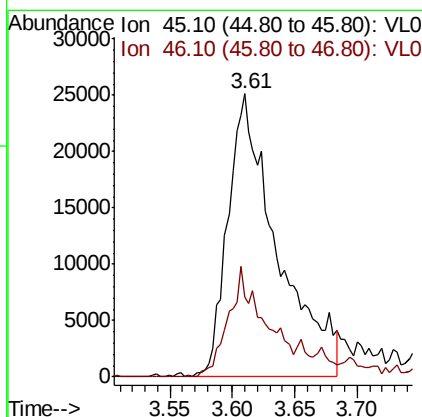
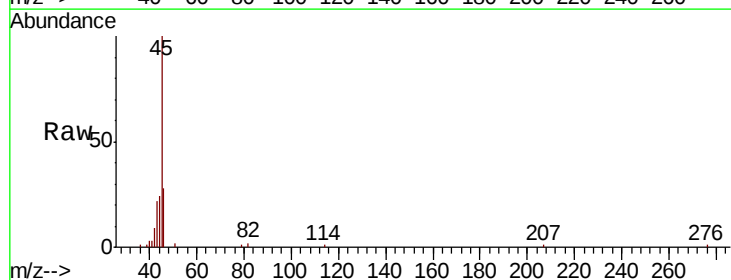
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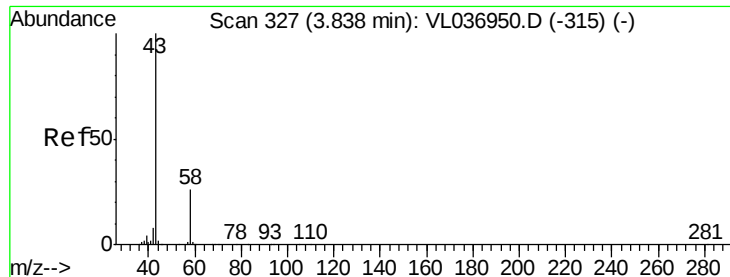
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#13
 Ethanol
 Concen: 6.108 ppbv m
 RT: 3.61 min Scan# 256
 Delta R.T. 0.01 min
 Lab File: VL036980.D
 Acq: 18 May 2021 22:15

Tgt Ion: 45 Resp: 69221
 Ion Ratio Lower Upper
 45 100
 46 38.8 16.3 65.3





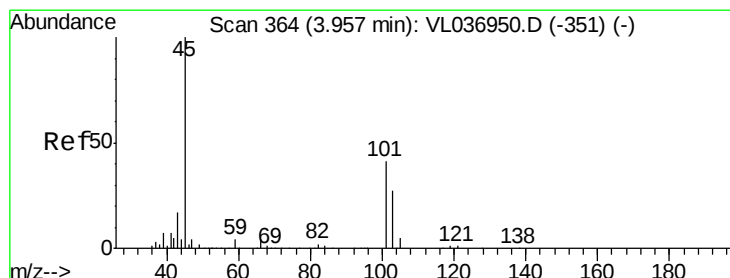
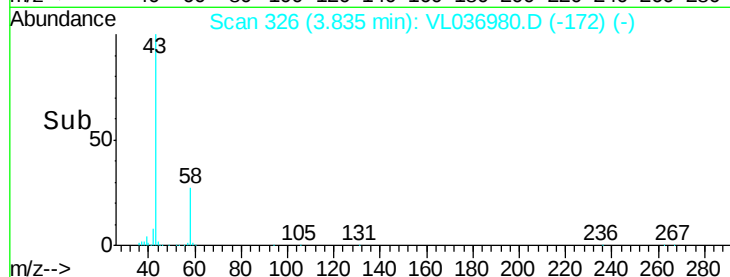
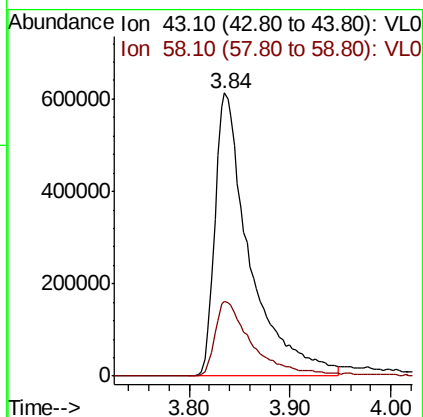
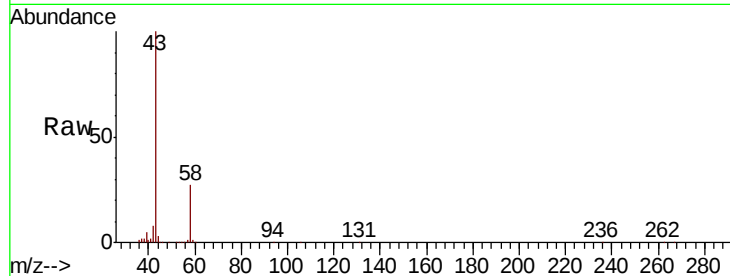
#15
Acetone
Concen: 11.101 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL036980.D
Acq: 18 May 2021 22:15

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion: 43 Resp: 1472262
Ion Ratio Lower Upper
43 100
58 29.6 24.0 36.0

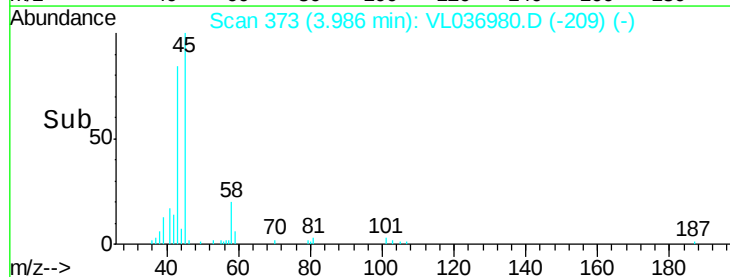
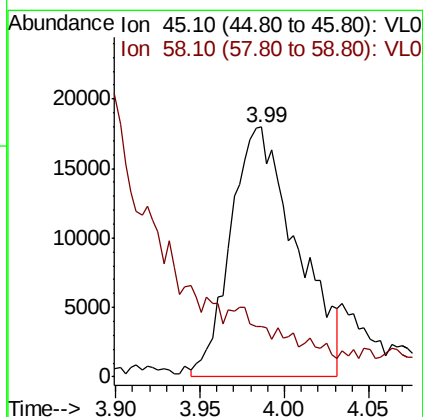
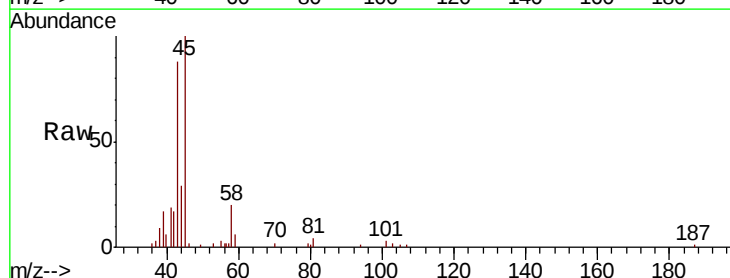
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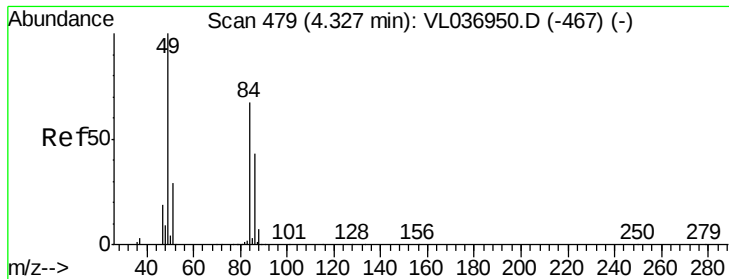
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#19
Isopropyl Alcohol
Concen: 0.689 ppbv m
RT: 3.99 min Scan# 373
Delta R.T. 0.03 min
Lab File: VL036980.D
Acq: 18 May 2021 22:15

Tgt Ion: 45 Resp: 49088
Ion Ratio Lower Upper
45 100
58 0.0 37.2 55.8#





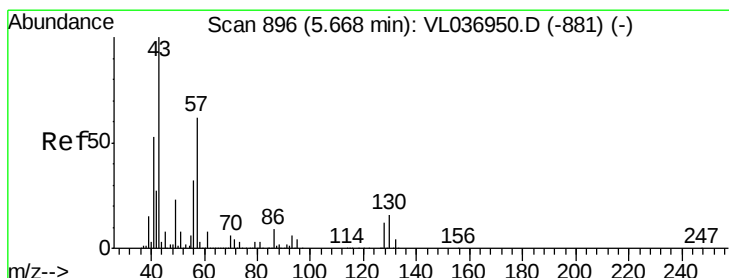
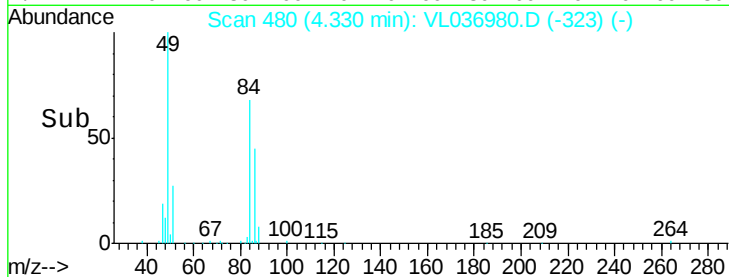
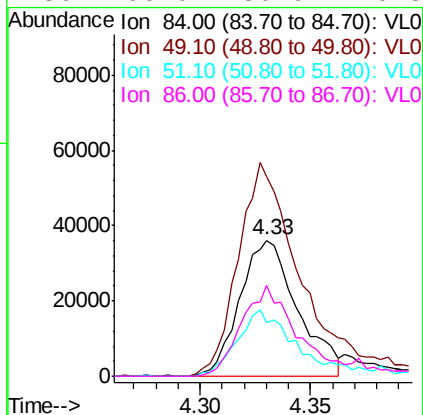
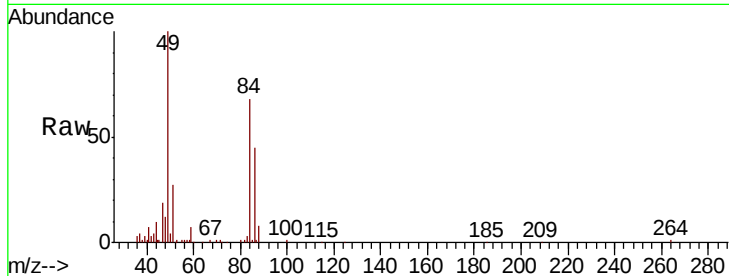
#20
Methvlene Chloride
Concen: 0.922 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL036980.D
Acq: 18 May 2021 22:15

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion:	84	Resp:	65553
Ion	Ratio	Lower	Upper
84	100		
49	146.2	119.8	179.6
51	39.6	35.1	52.7
86	66.0	50.9	76.3

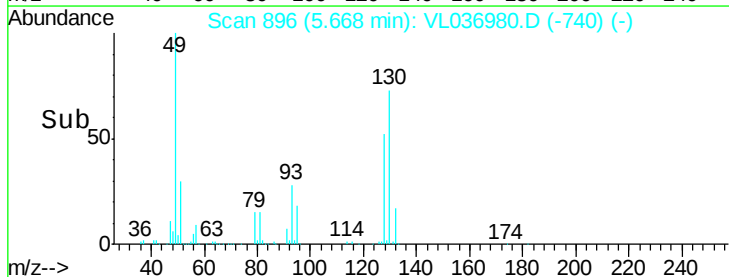
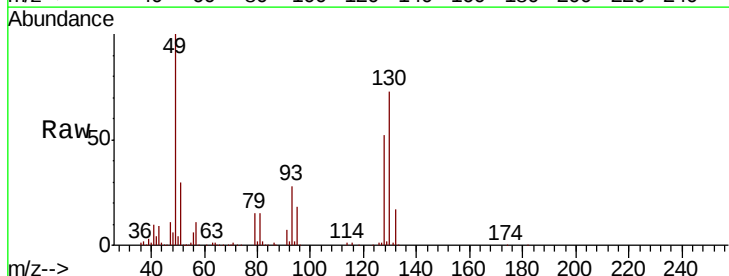
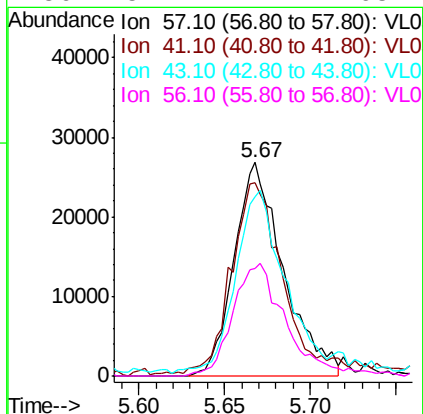
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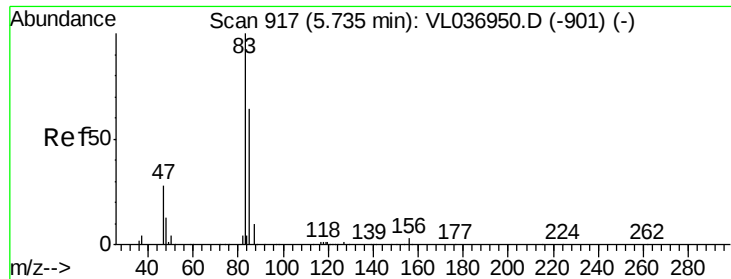
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#26
Hexane
Concen: 0.330 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036980.D
Acq: 18 May 2021 22:15

Tgt Ion:	57	Resp:	53665
Ion	Ratio	Lower	Upper
57	100		
41	101.9	70.5	105.7
43	92.6	165.8	248.8#
56	57.4	42.2	63.4





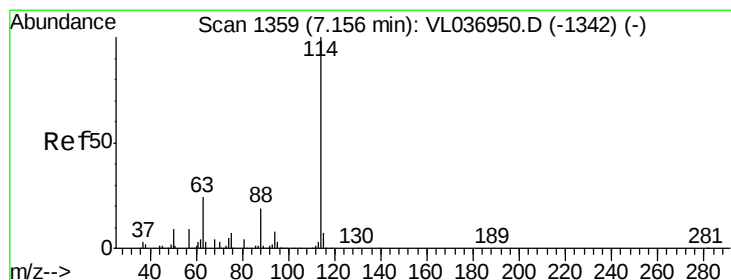
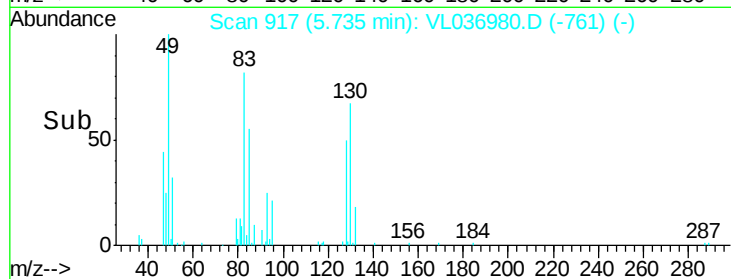
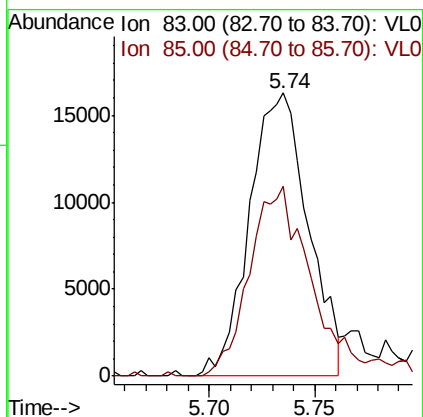
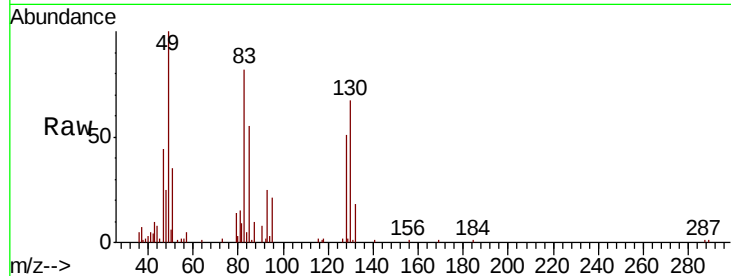
#29
Chloroform
Concen: 0.137 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL036980.D
Acq: 18 May 2021 22:15

Instrument :
MSVOA_L
ClientSampled :
SV1DL

Tot Ion	83	Resp	31549
Ion Ratio	Lower	Upper	
83	100		
85	67.2	51.1	76.7

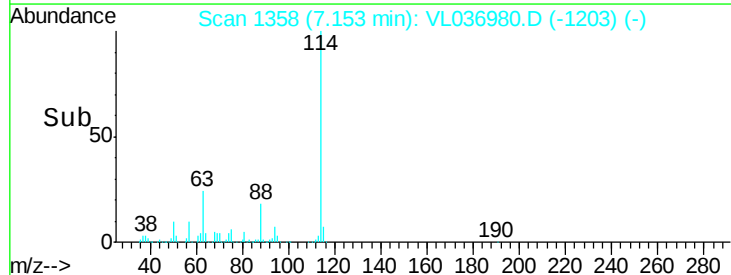
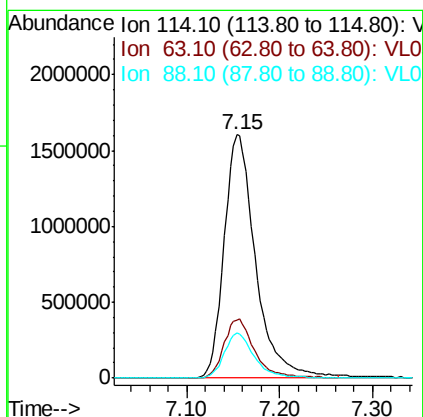
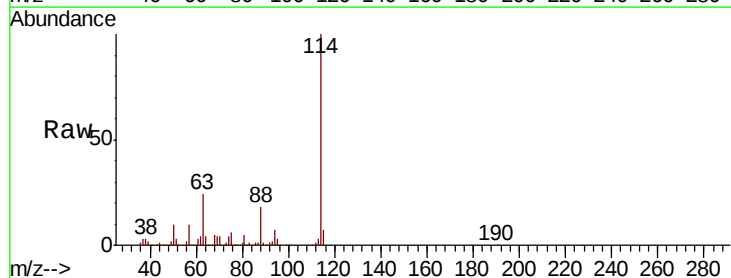
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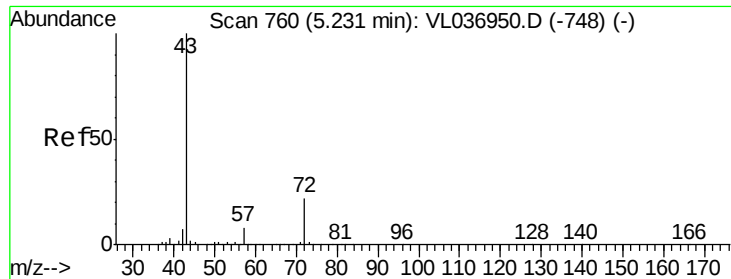
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VL036980.D
Acq: 18 May 2021 22:15

Tgt Ion	114	Resp	3781282
Ion Ratio	Lower	Upper	
114	100		
63	24.1	19.6	29.4
88	17.9	14.6	21.8





#34

2-Butanone

Concen: 0.524 ppbv m

RT: 5.24 min Scan# 763

Delta R.T. 0.01 min

Lab File: VL036980.D

Acq: 18 May 2021 22:15

Instrument :

MSVOA_L

ClientSampled :

SV1DL

Tot Ion: 43 Resp: 72187

Ion Ratio Lower Upper

43 100

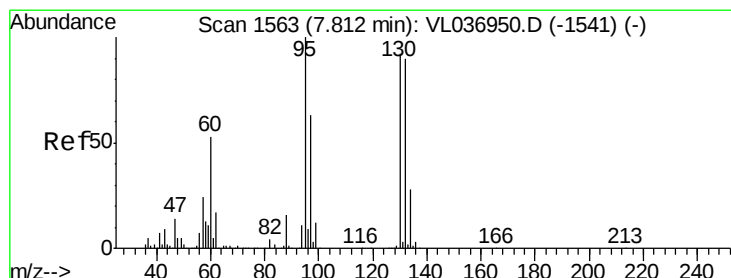
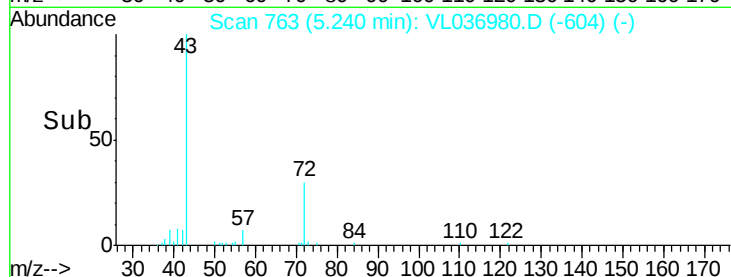
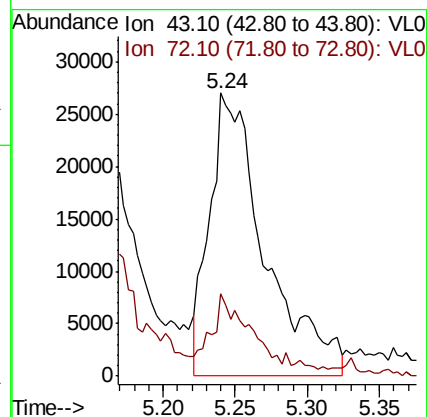
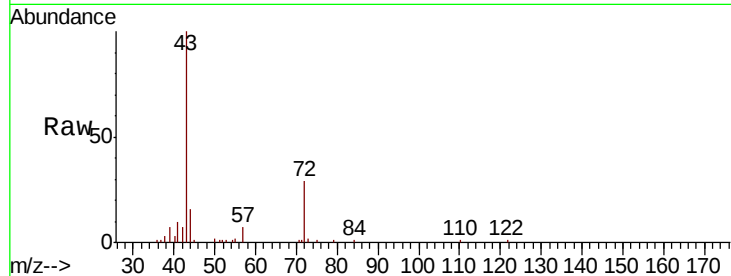
72 26.3 19.0 28.4

Manual Integrations

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#38

Trichloroethene

Concen: 0.322 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036980.D

Acq: 18 May 2021 22:15

Tgt Ion: 130 Resp: 44827

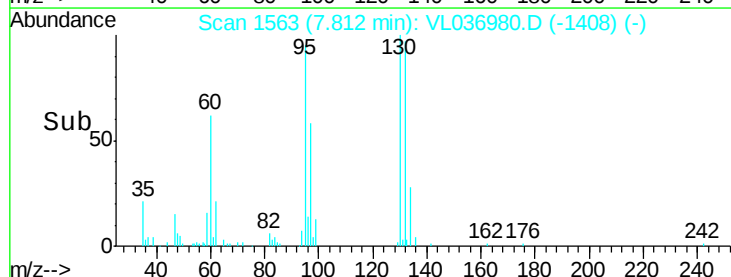
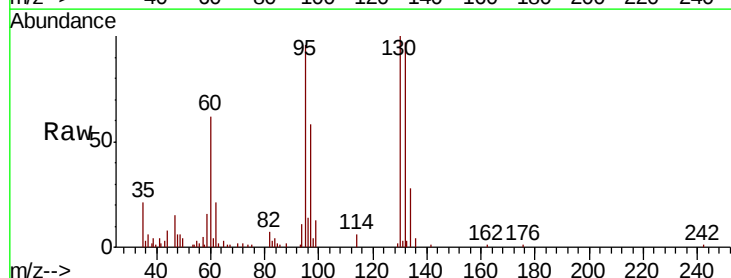
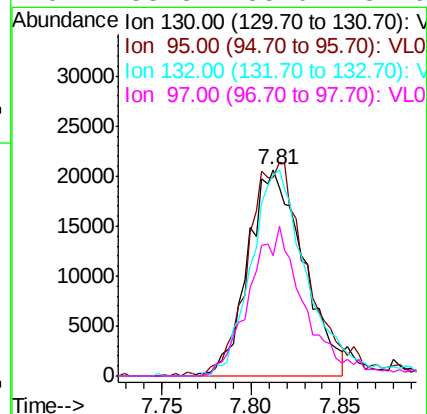
Ion Ratio Lower Upper

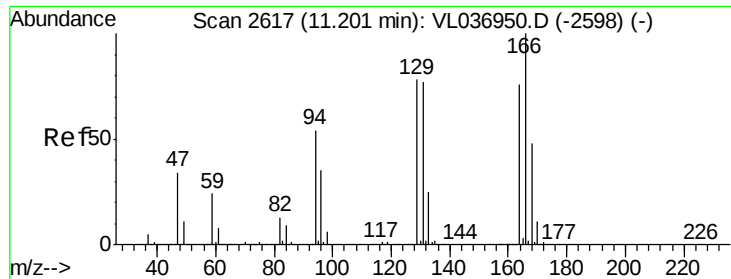
130 100

95 94.7 86.9 130.3

132 100.5 78.4 117.6

97 58.3 55.0 82.6





#52

Tetrachloroethene

Concen: 9.386 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. 0.00 min

Lab File: VL036980.D

Acq: 18 May 2021 22:15

Instrument :

MSVOA_L

ClientSampled :

SV1DL

Tot Ion:164 Resp: 1215659

Ion Ratio Lower Upper

164 100

166 125.6 105.5 158.3

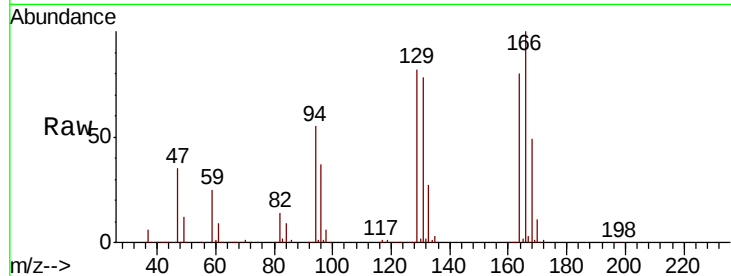
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Manual Integrations
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5/20/2021 5:56:11 PM

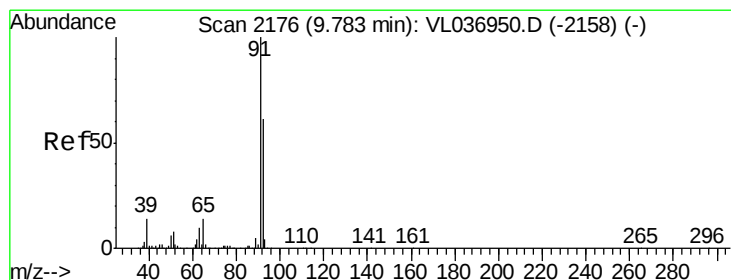
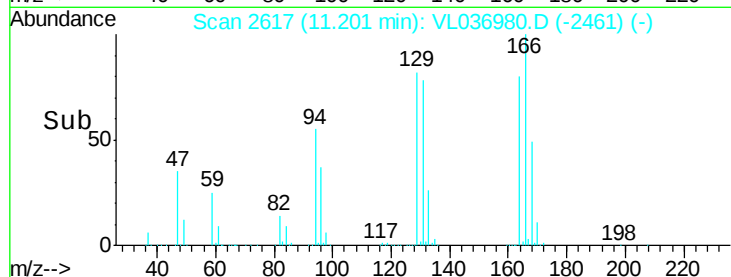
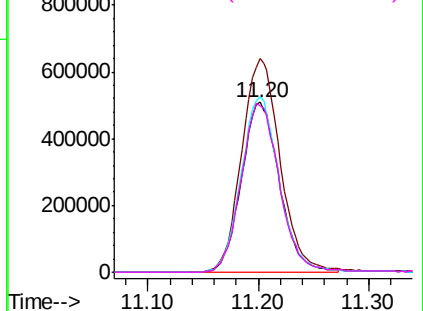


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.118 ppbv m

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL036980.D

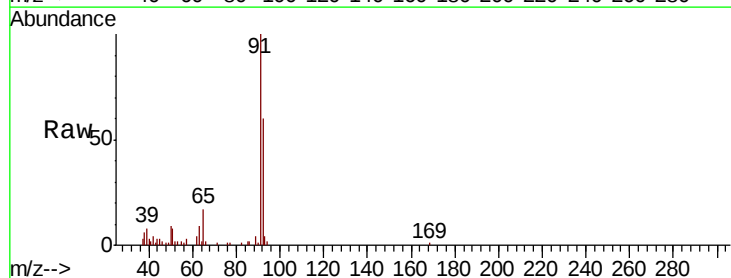
Acq: 18 May 2021 22:15

Tgt Ion: 91 Resp: 45801

Ion Ratio Lower Upper

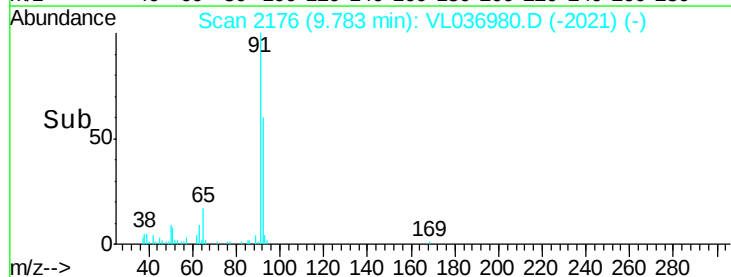
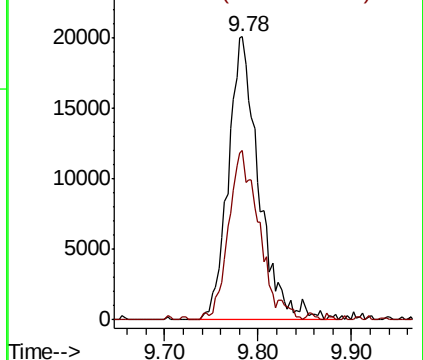
91 100

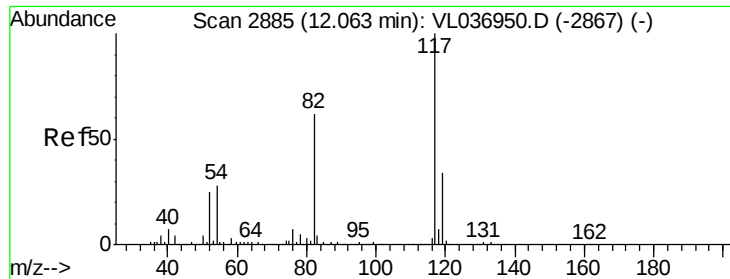
92 61.4 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VL036980.D

Acq: 18 May 2021 22:15

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion:117 Resp: 3460114

Ion Ratio Lower Upper

117 100

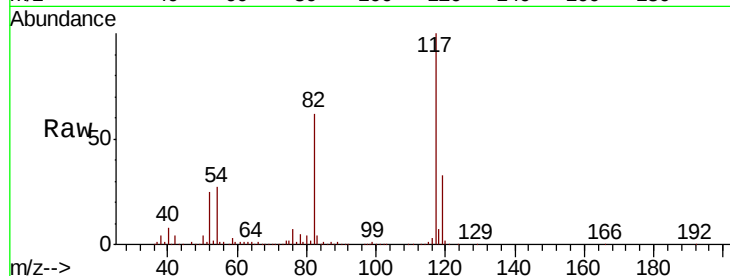
82 64.0 52.6 79.0

119 34.1 46.6 70.0#

Manual Integrations
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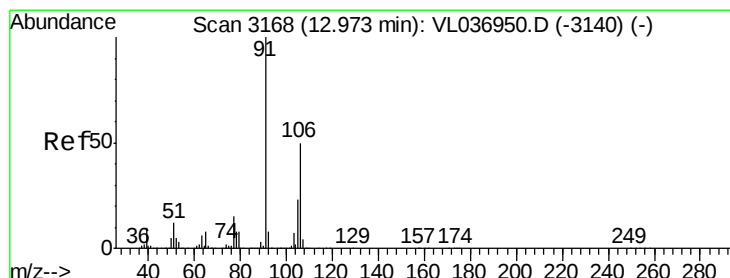
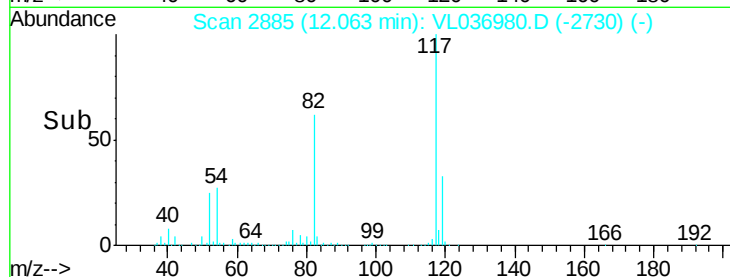
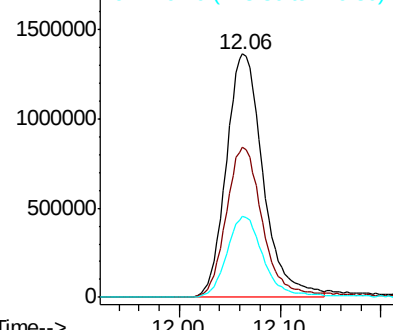
5/20/2021 5:56:11 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.184 ppbv m

RT: 12.95 min Scan# 3160

Delta R.T. -0.03 min

Lab File: VL036980.D

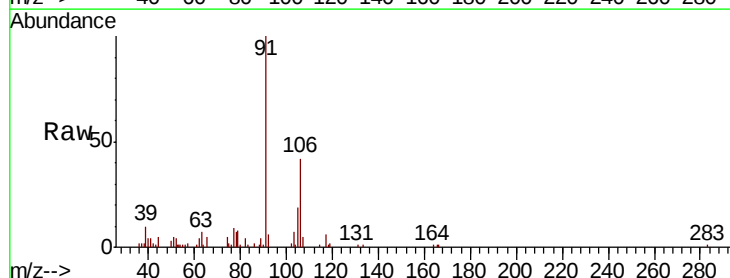
Acq: 18 May 2021 22:15

Tgt Ion: 91 Resp: 74302

Ion Ratio Lower Upper

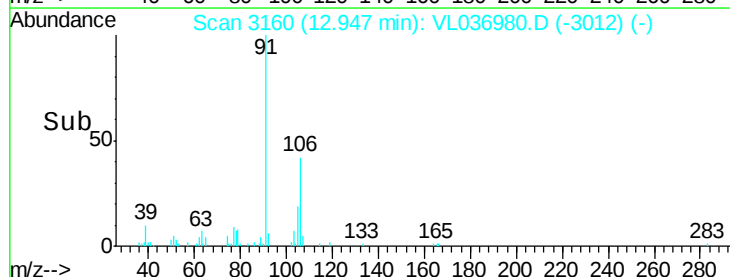
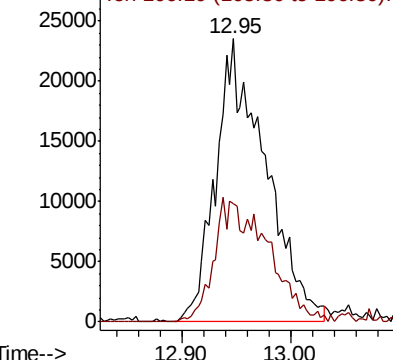
91 100

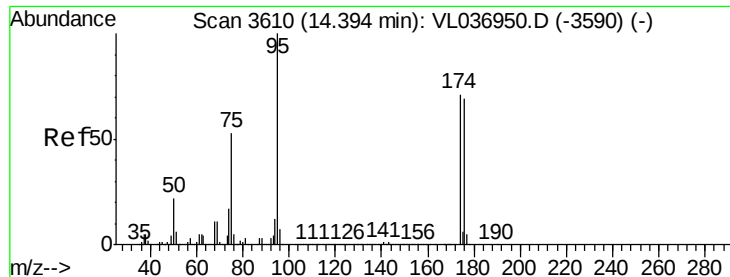
106 0.0 37.4 56.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





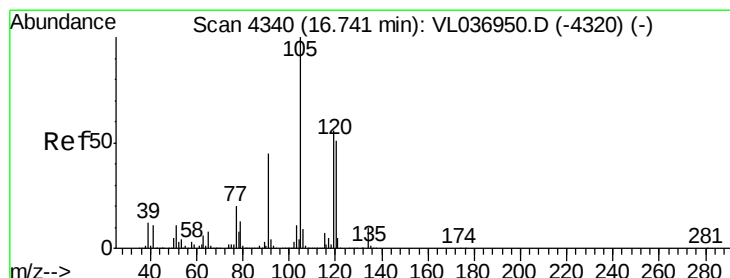
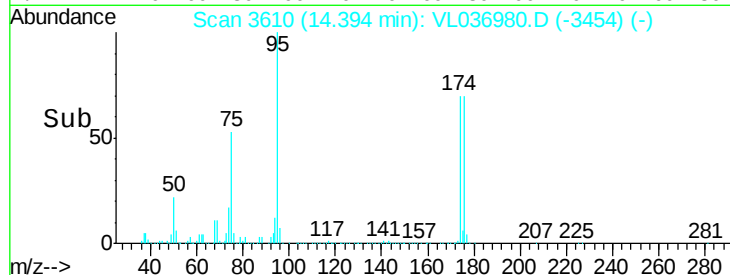
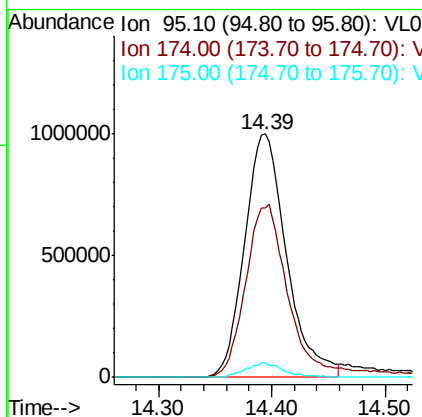
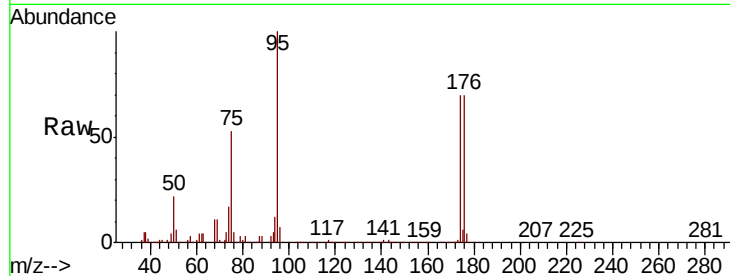
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.950 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL036980.D
 Acq: 18 May 2021 22:15

Instrument :
 MSVOA_L
 ClientSampled :
 SV1DL

Tot Ion: 95 Resp: 2586291
 Ion Ratio Lower Upper
 95 100
 174 76.4 58.4 87.6
 175 5.8 4.4 6.6

Manual Integrations
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MMDadoda
 5/20/2021 5:56:11 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.138 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. 0.00 min
 Lab File: VL036980.D
 Acq: 18 May 2021 22:15

Tgt Ion: 105 Resp: 61129
 Ion Ratio Lower Upper
 105 100
 120 42.8 40.6 61.0
 91 24.6 37.4 56.0#
 77 13.1 16.2 24.4#

