

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\
 Data File : VL037140.D
 Acq On : 8 Jun 2021 20:19
 Operator : SY/AP
 Sample : M2614-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7C

Manual Integrations
 APPROVED

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 6/9/2021 4:23:56 PM

Quant Time: Jun 09 12:39:49 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	5.66	49	1288727	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	3841039	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	3455660	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2517491	9.70	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	74961	0.343	ppbv	92
3) Chlorodifluoromethane	2.99	51	97654m	0.414	ppbv	
4) Chloromethane	3.14	50	47039	0.585	ppbv	93
9) Propene	3.01	41	59759m	0.707	ppbv	
11) Trichlorofluoromethane	3.95	101	52479	0.259	ppbv #	83
13) Ethanol	3.60	45	2149015	190.515	ppbv	96
15) Acetone	3.85	43	1135463	8.602	ppbv	97
19) Isopropyl Alcohol	3.97	45	824869	11.625	ppbv #	35
20) Methylene Chloride	4.34	84	705222	9.967	ppbv	97
26) Hexane	5.68	57	539216	3.328	ppbv #	48
30) Cyclohexane	7.13	84	16996m	0.123	ppbv	
34) 2-Butanone	5.25	43	116241	0.831	ppbv #	90
35) Carbon Tetrachloride	7.02	117	14956m	0.059	ppbv	
36) Benzene	6.89	78	89545m	0.271	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	79343m	0.140	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	53626m	0.232	ppbv	
52) Tetrachloroethene	11.22	164	4220m	0.032	ppbv	
53) Toluene	9.80	91	443314	1.126	ppbv	95
59) m/p-Xylene	12.97	91	109997m	0.273	ppbv	
60) o-Xylene	13.69	91	43045m	0.112	ppbv	

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

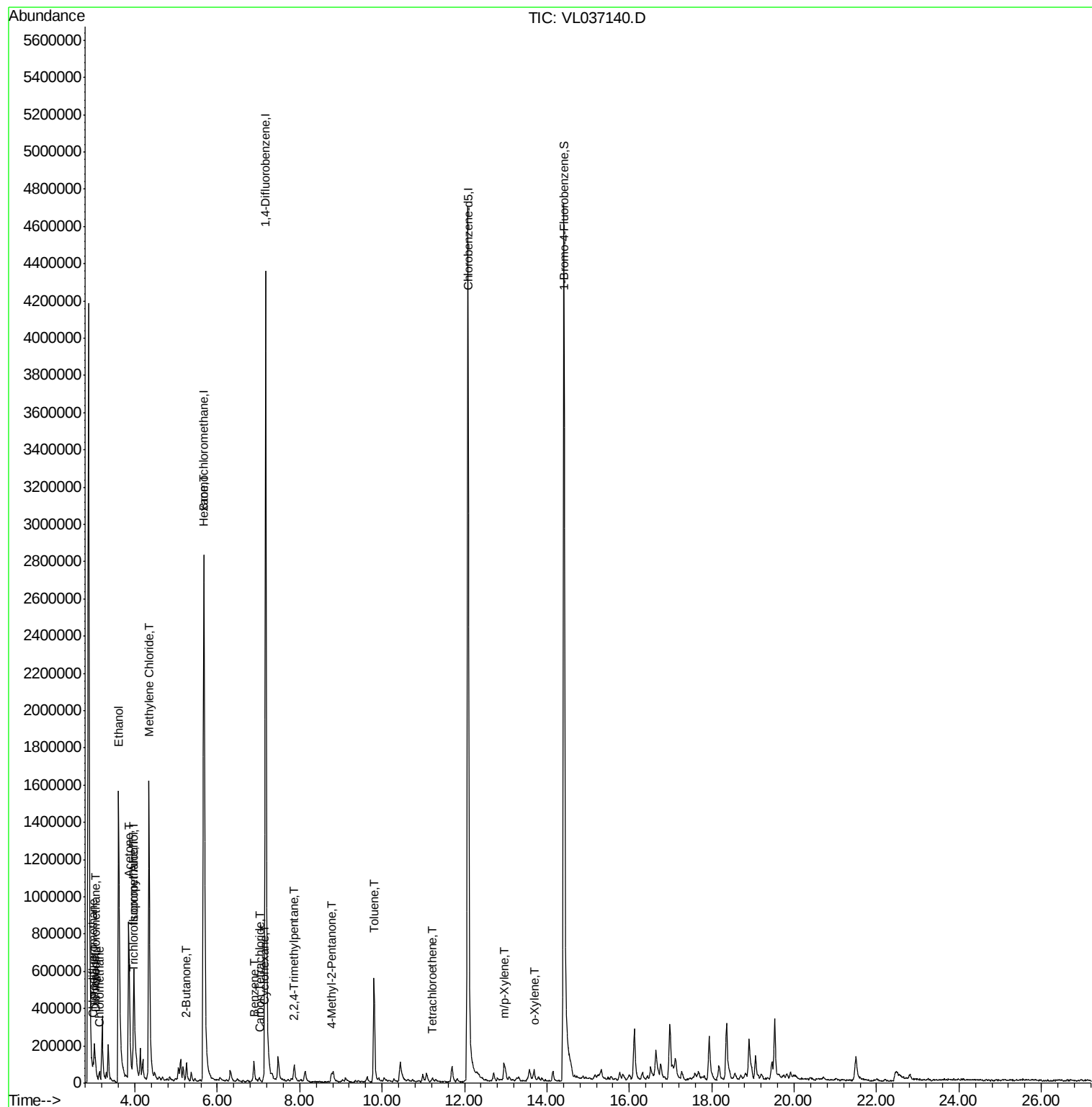
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060821\
Data File : VL037140.D
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Operator : SY/AP
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Misc : 400mL/MSVOA L
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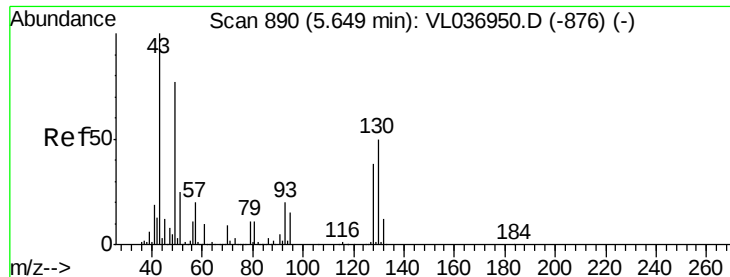
Instrument :
MSVOA_L
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Quant Time: Jun 09 12:39:49 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.02 min

Lab File: VL037140.D

Acq: 8 Jun 2021 20:19

Instrument :

MSVOA_L

ClientSampleId :

SR-7C

Tot Ion: 49 Resp: 1288727

Ion Ratio Lower Upper

49 100

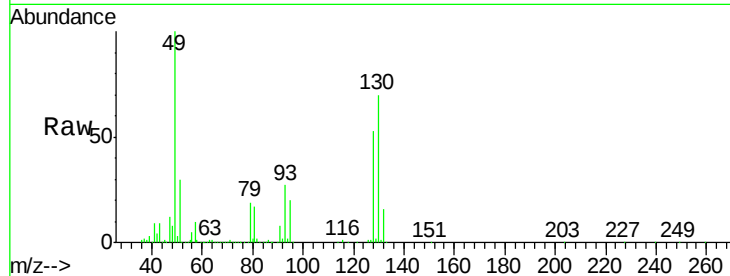
128 58.1 26.9 80.7

130 74.3 33.8 101.4

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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

800000

600000

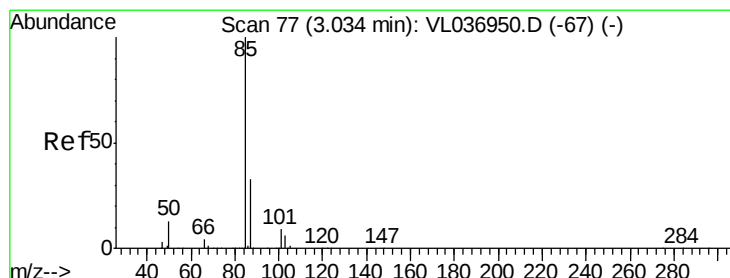
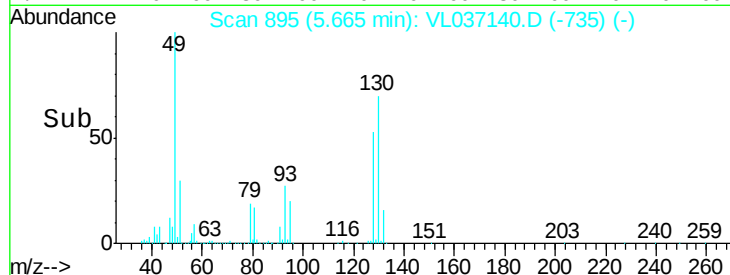
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.343 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL037140.D

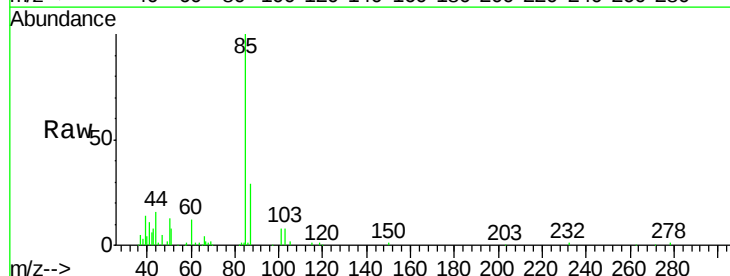
Acq: 8 Jun 2021 20:19

Tgt Ion: 85 Resp: 74961

Ion Ratio Lower Upper

85 100

87 28.6 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

50000

40000

30000

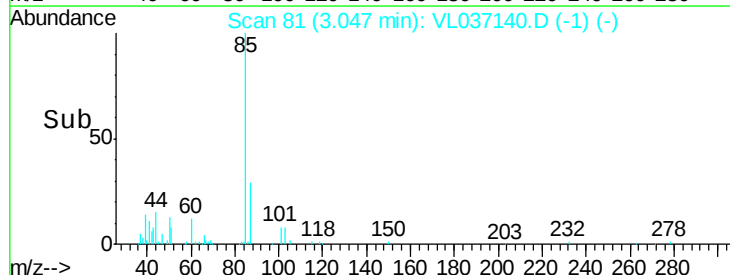
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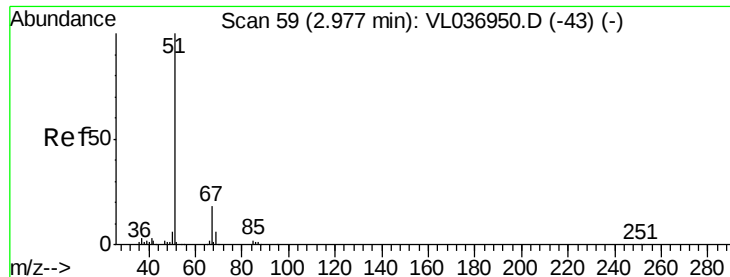
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0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 0.414 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL037140.D

Acq: 8 Jun 2021 20:19

Instrument :

MSVOA_L

ClientSampleId :

SR-7C

Tot Ion: 51 Resp: 97654

Ion Ratio Lower Upper

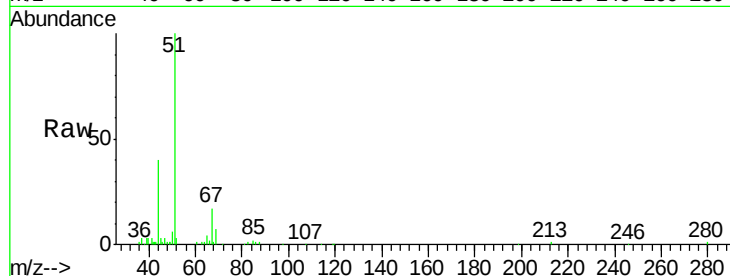
51 100

67 1.0 14.6 21.8#

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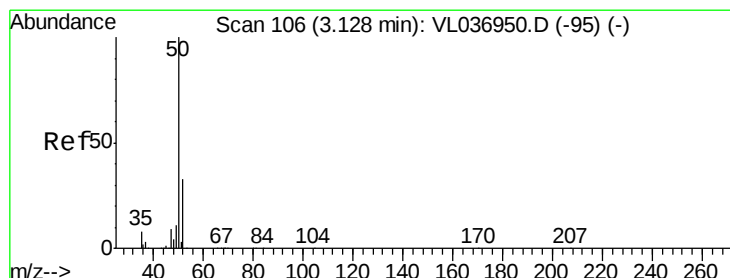
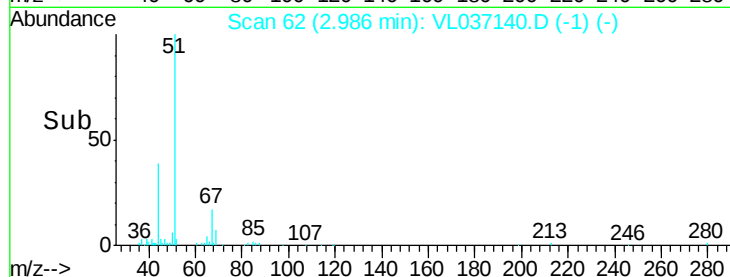
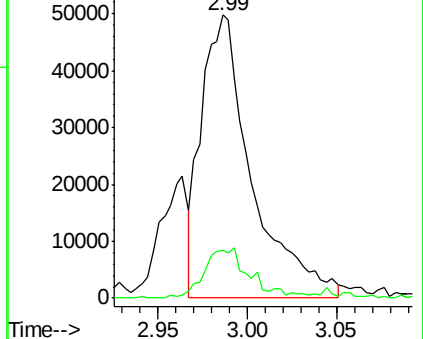
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.585 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL037140.D

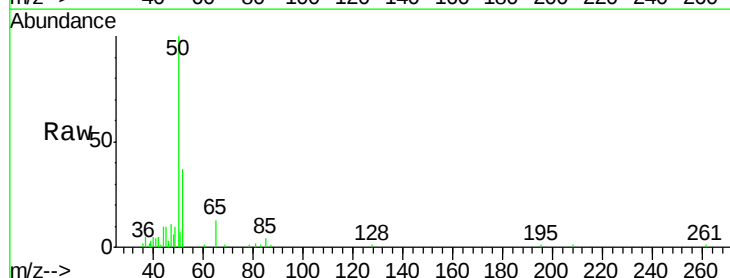
Acq: 8 Jun 2021 20:19

Tgt Ion: 50 Resp: 47039

Ion Ratio Lower Upper

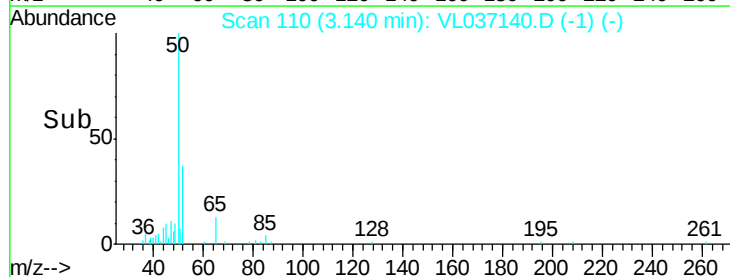
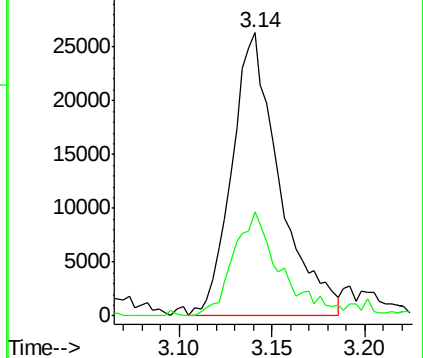
50 100

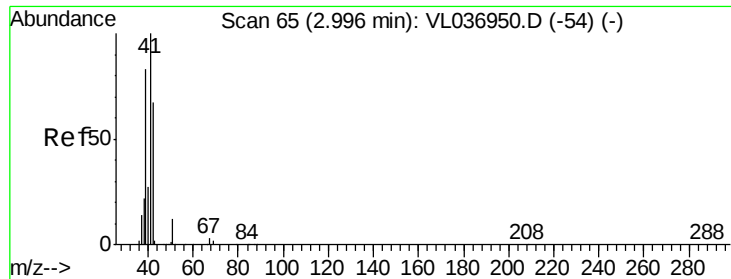
52 36.8 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.707 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037140.D

Acq: 8 Jun 2021 20:19

Instrument :

MSVOA_L

ClientSampleId :

SR-7C

Tot Ion: 41 Resp: 59759

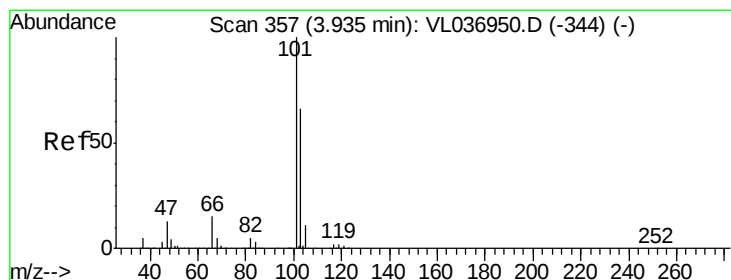
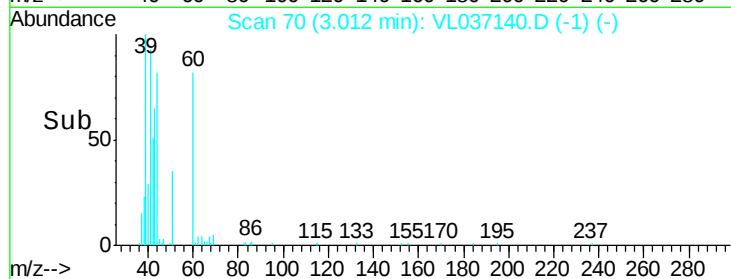
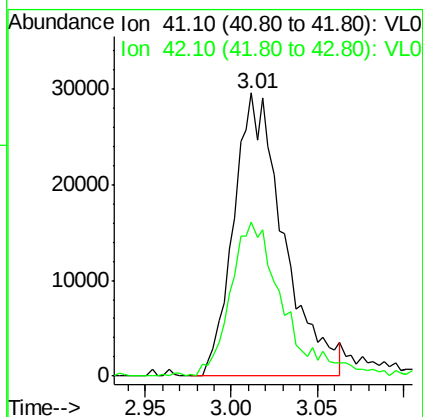
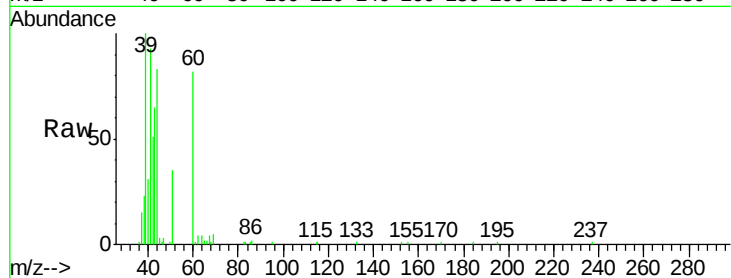
Ion Ratio Lower Upper

41 100

42 58.1 53.9 80.9

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#11

Trichlorofluoromethane

Concen: 0.259 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL037140.D

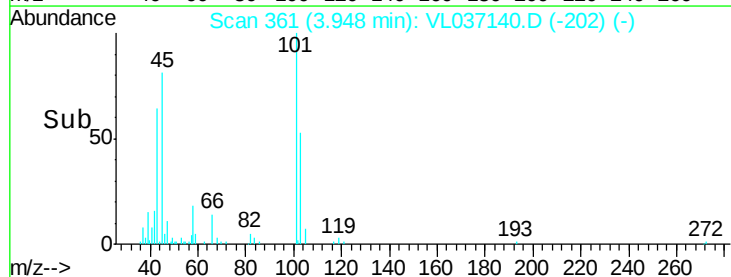
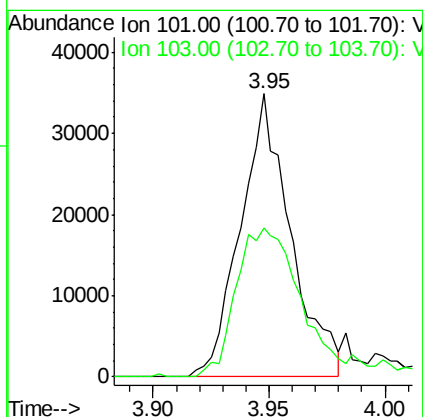
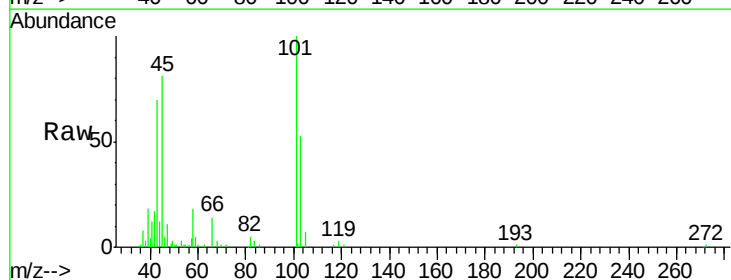
Acq: 8 Jun 2021 20:19

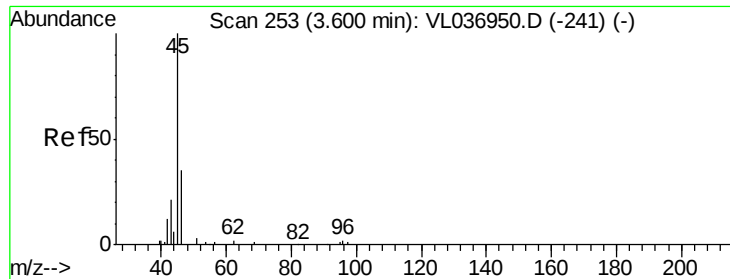
Tgt Ion: 101 Resp: 52479

Ion Ratio Lower Upper

101 100

103 52.6 52.6 79.0#





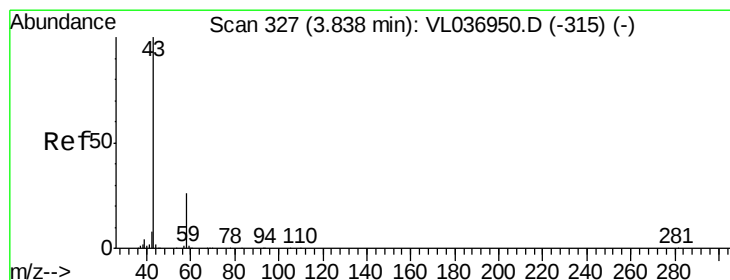
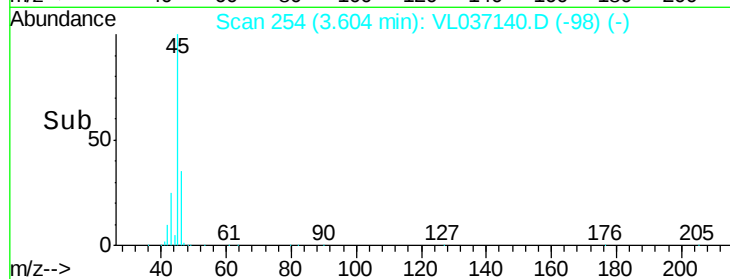
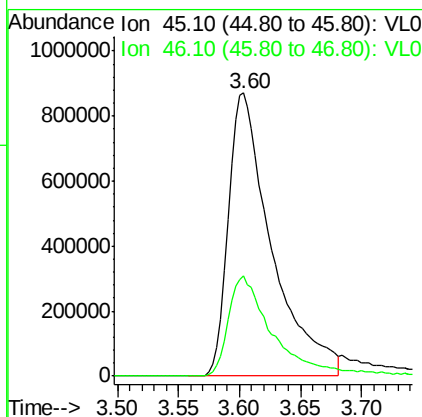
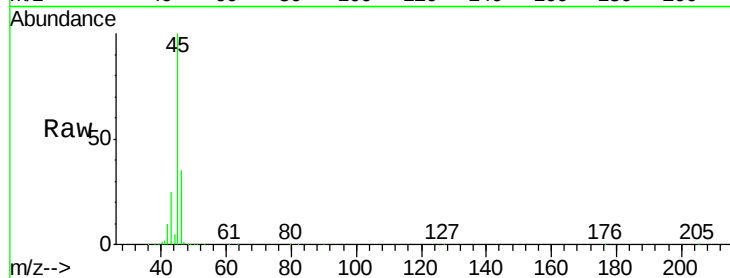
#13
Ethanol
Concen: 190.515 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Instrument :
MSVOA_L
ClientSampled :
SR-7C

Tot Ion: 45 Resp: 2149015
Ion Ratio Lower Upper
45 100
46 38.1 16.3 65.3

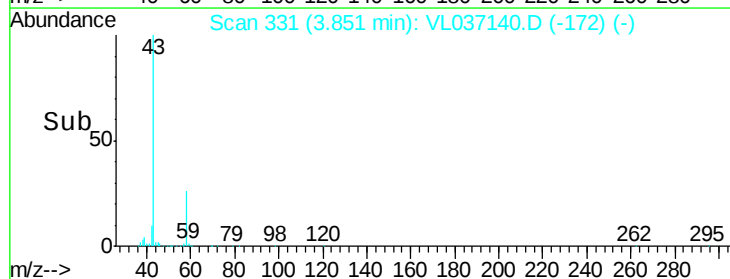
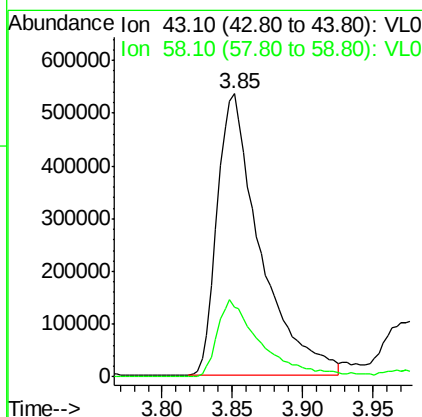
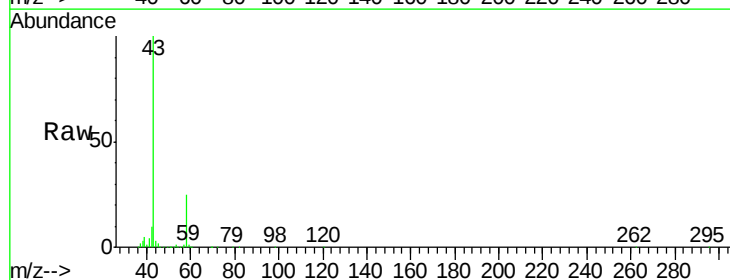
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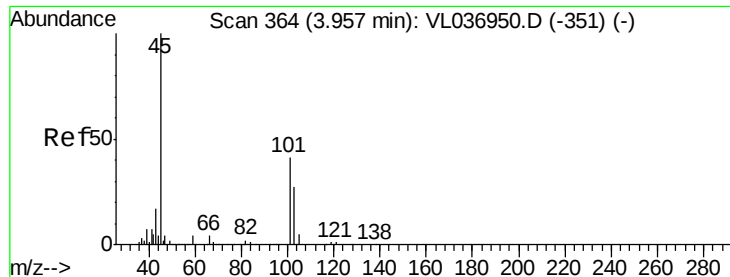
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#15
Acetone
Concen: 8.602 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Tgt Ion: 43 Resp: 1135463
Ion Ratio Lower Upper
43 100
58 28.2 24.0 36.0





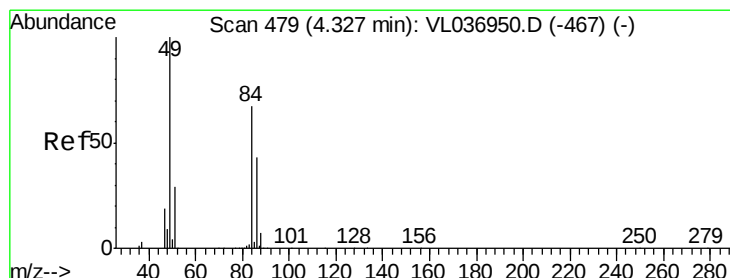
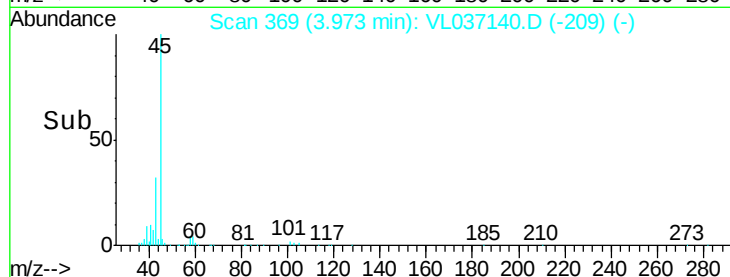
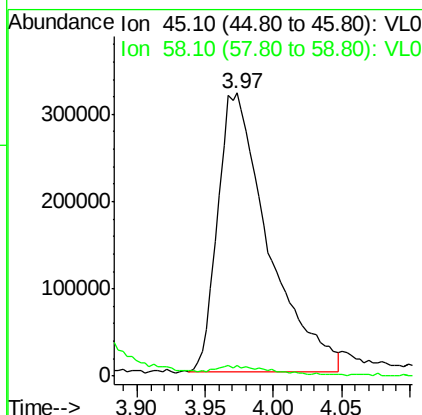
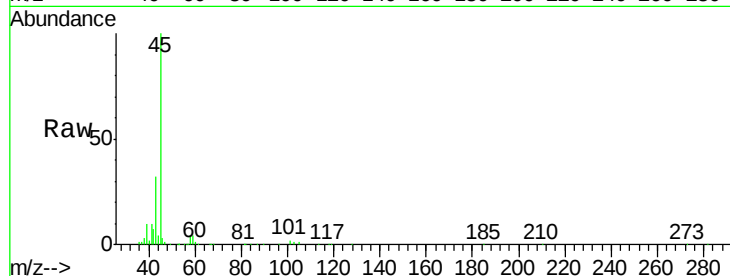
#19
Isopropyl Alcohol
Concen: 11.625 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Instrument :
MSVOA_L
ClientSampleId :
SR-7C

Tot Ion: 45 Resp: 824869
Ion Ratio Lower Upper
45 100
58 3.4 37.2 55.8#

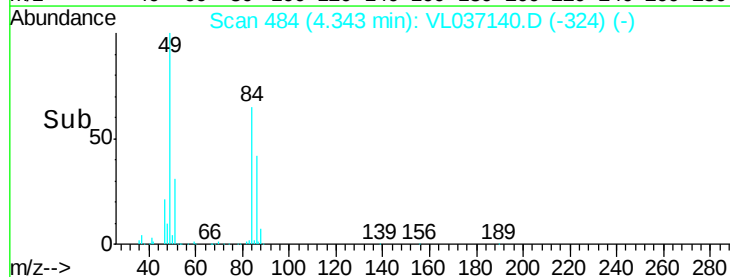
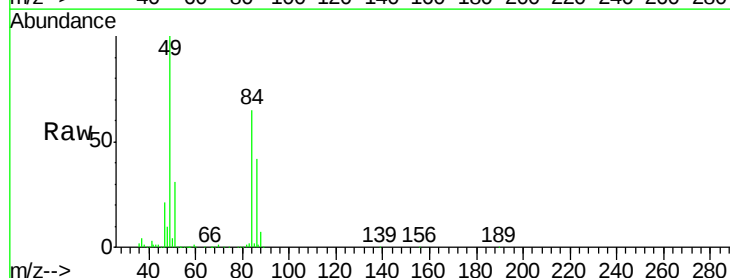
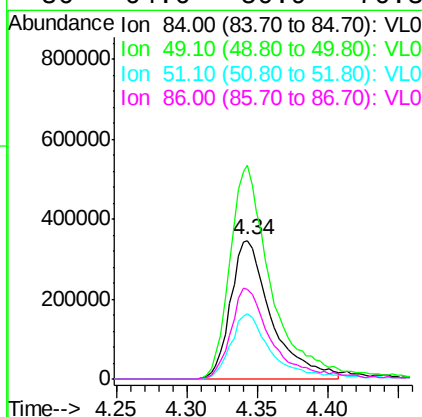
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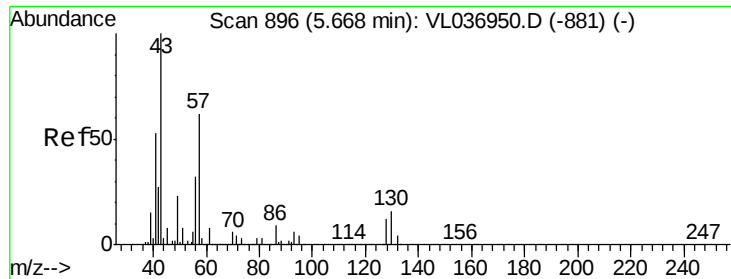
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#20
Methylene Chloride
Concen: 9.967 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Tgt Ion: 84 Resp: 705222
Ion Ratio Lower Upper
84 100
49 154.0 119.8 179.6
51 47.1 35.1 52.7
86 64.6 50.9 76.3





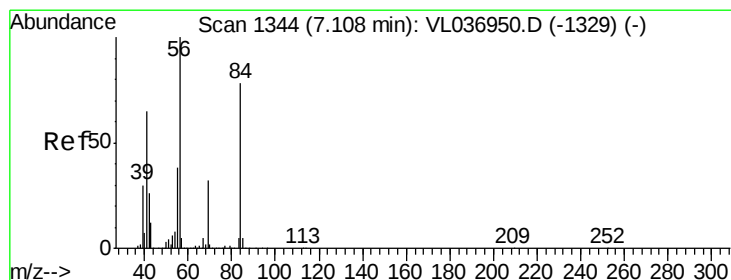
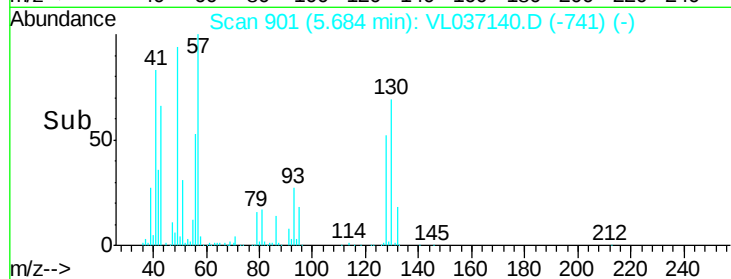
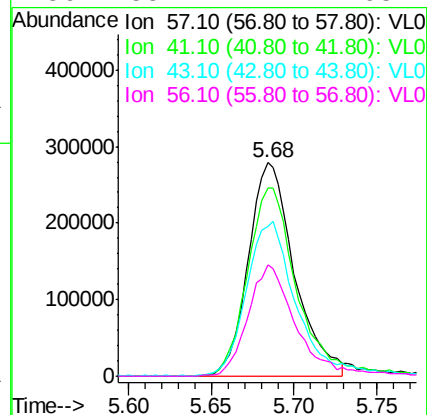
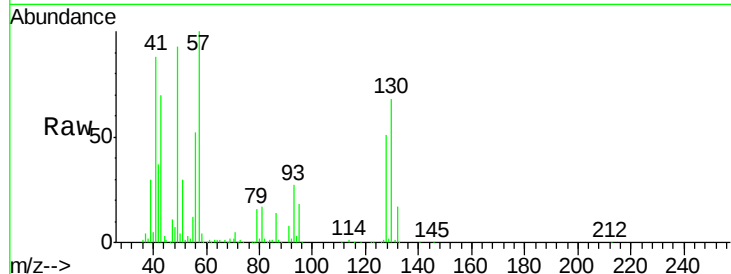
#26
Hexane
Concen: 3.328 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Instrument :
MSVOA_L
ClientSampled :
SR-7C

Tot Ion	Ratio	Lower	Upper
57	100		
41	96.6	70.5	105.7
43	79.1	165.8	248.8#
56	55.4	42.2	63.4

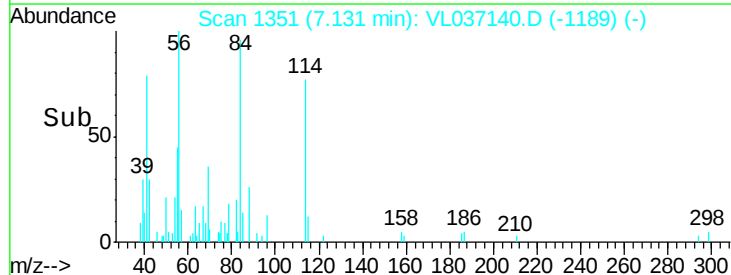
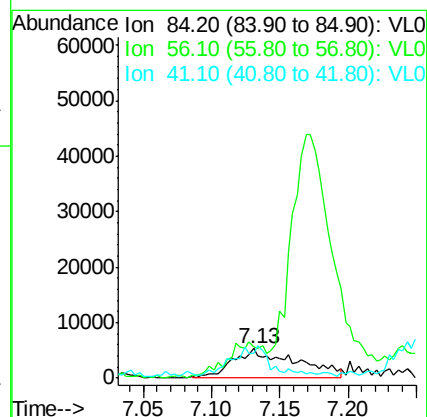
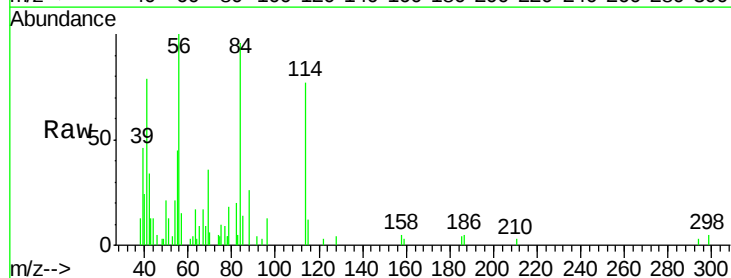
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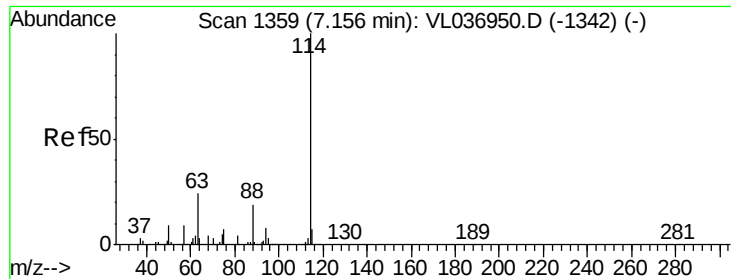
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#30
Cyclohexane
Concen: 0.123 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.9	161.9#
41	63.2	65.5	98.3#





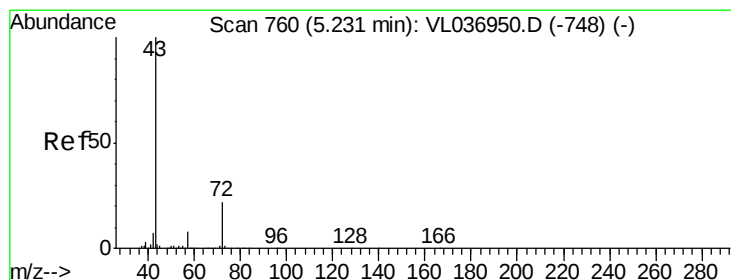
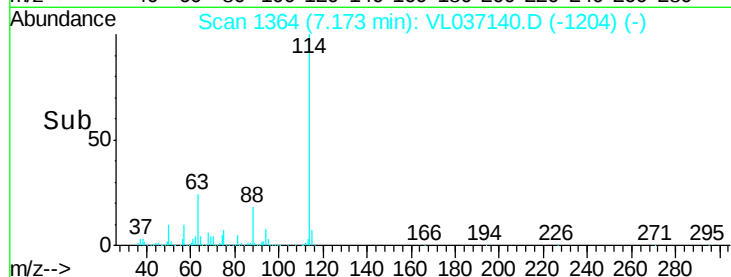
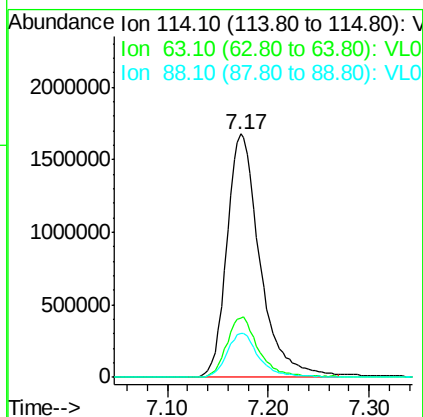
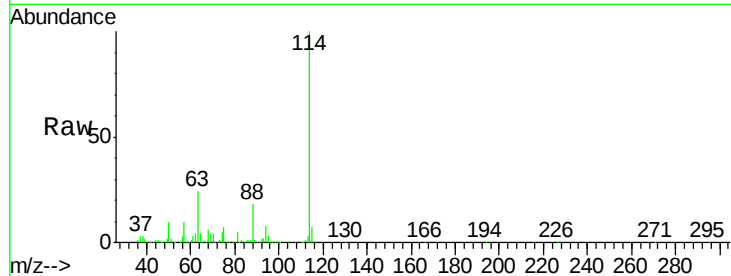
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. 0.02 min
 Lab File: VL037140.D
 Acq: 8 Jun 2021 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7C

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.6	29.4
88	18.0	14.6	21.8

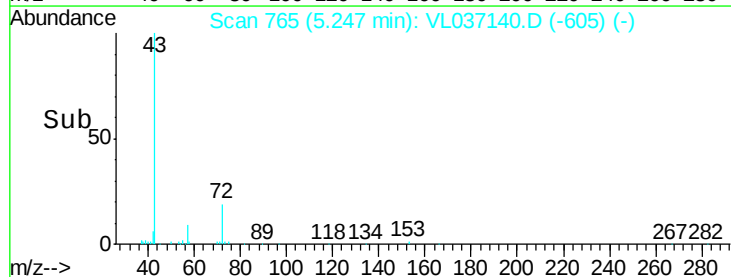
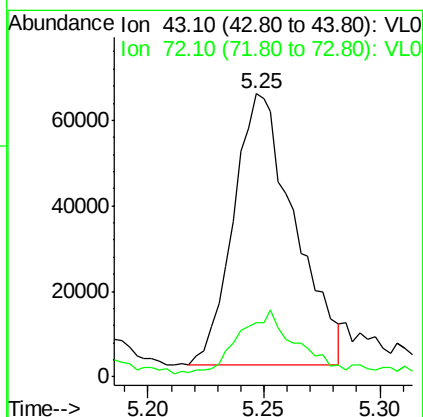
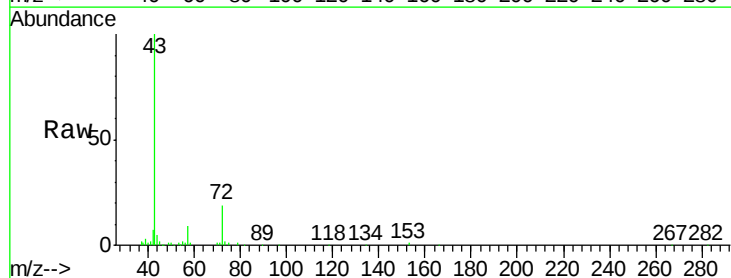
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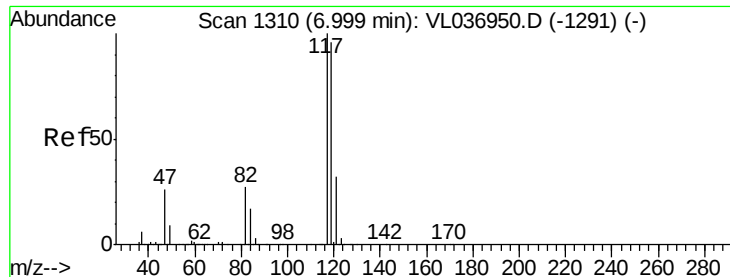
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#34
 2-Butanone
 Concen: 0.831 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.02 min
 Lab File: VL037140.D
 Acq: 8 Jun 2021 20:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	28.7	19.0	28.4





#35

Carbon Tetrachloride

Concen: 0.059 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. 0.02 min

Lab File: VL037140.D

Acq: 8 Jun 2021 20:19

Instrument :

MSVOA_L

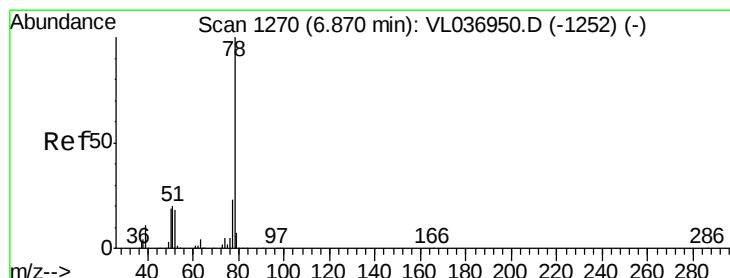
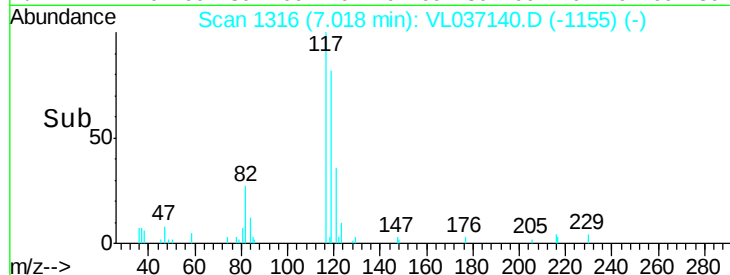
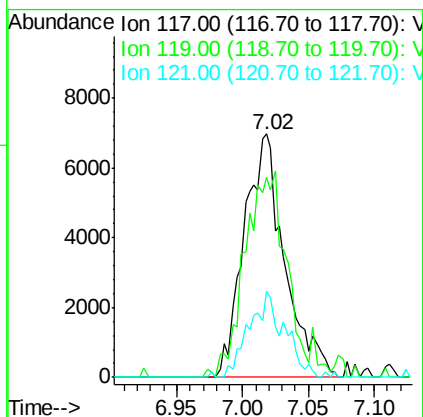
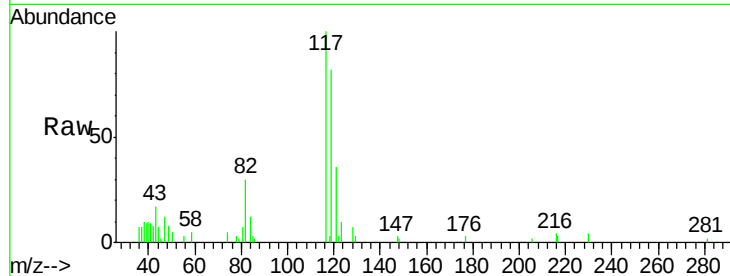
ClientSampleId :

SR-7C

Tot Ion:	117	Resp:	14956
Ion	Ratio	Lower	Upper
117	100		
119	82.4	76.6	114.8
121	35.5	25.8	38.6

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6/9/2021 4:23:56 PM



#36

Benzene

Concen: 0.271 ppbv m

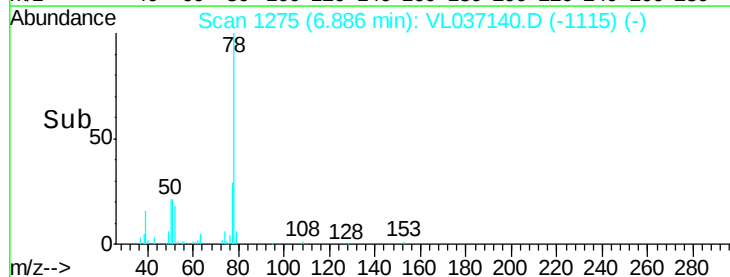
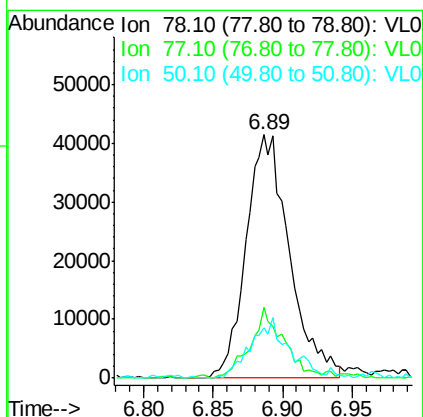
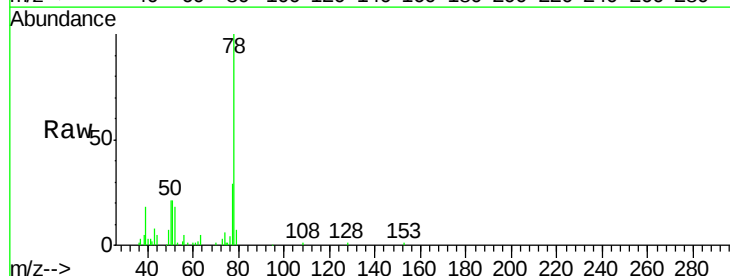
RT: 6.89 min Scan# 1275

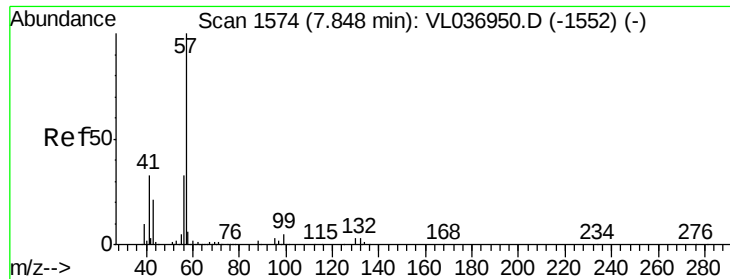
Delta R.T. 0.02 min

Lab File: VL037140.D

Acq: 8 Jun 2021 20:19

Tgt Ion:	78	Resp:	89545
Ion	Ratio	Lower	Upper
78	100		
77	28.9	18.6	28.0#
50	20.8	15.0	22.4





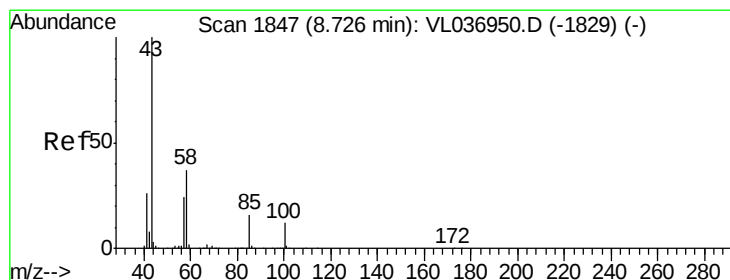
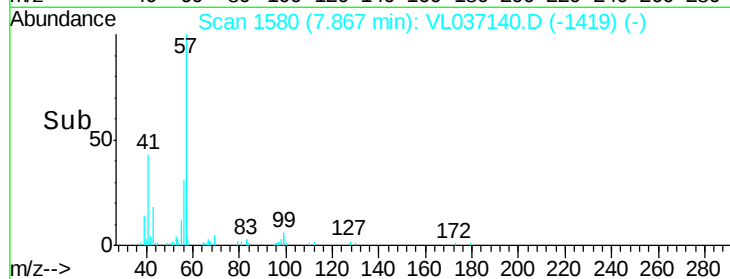
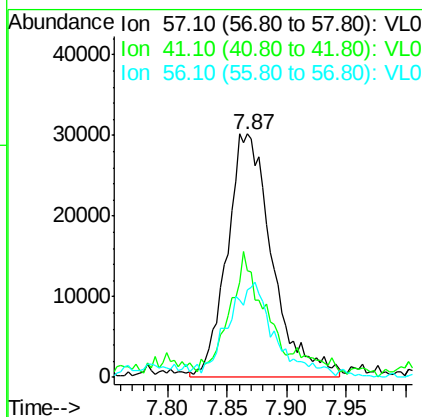
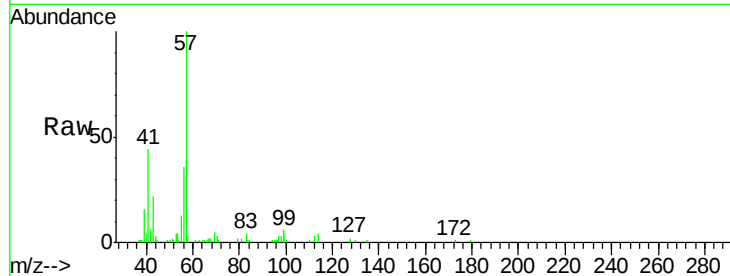
#44
 2,2,4-Trimethylpentane
 Concen: 0.140 ppbv m
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VL037140.D
 Acq: 8 Jun 2021 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7C

Tot Ion	Ratio	Lower	Upper
57	100		
41	43.0	27.0	40.4#
56	41.9	25.4	38.2#

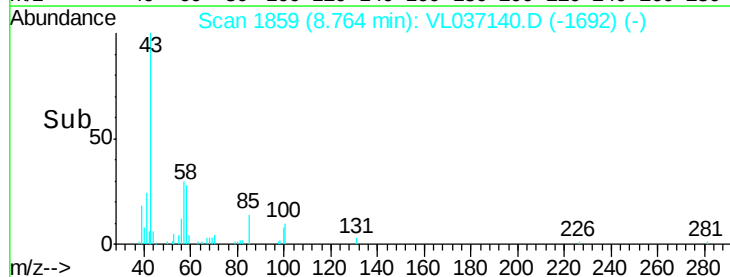
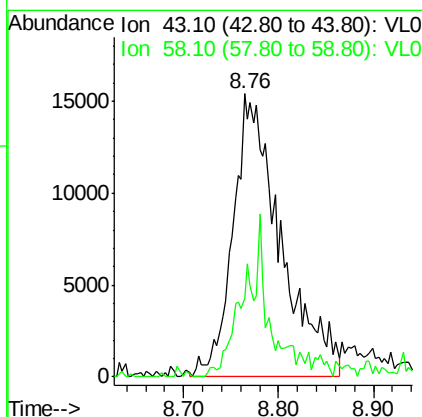
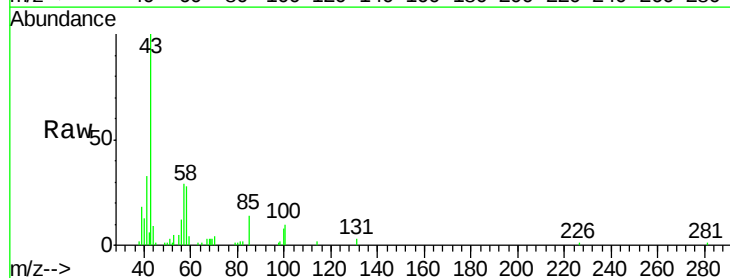
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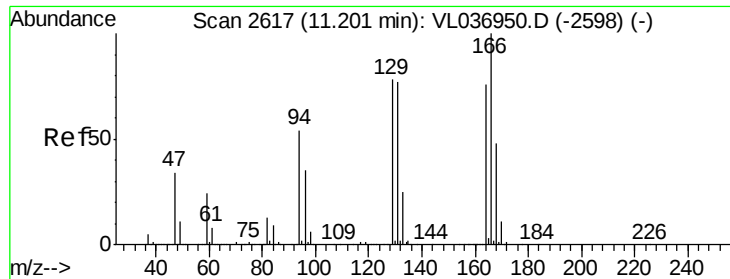
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#50
 4-Methyl-2-Pentanone
 Concen: 0.232 ppbv m
 RT: 8.76 min Scan# 1859
 Delta R.T. 0.04 min
 Lab File: VL037140.D
 Acq: 8 Jun 2021 20:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#





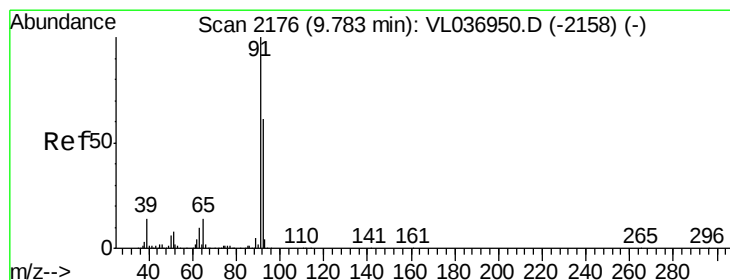
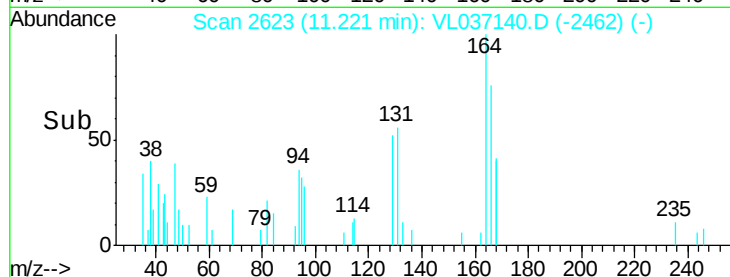
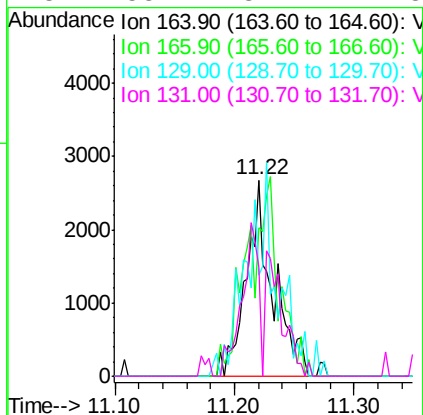
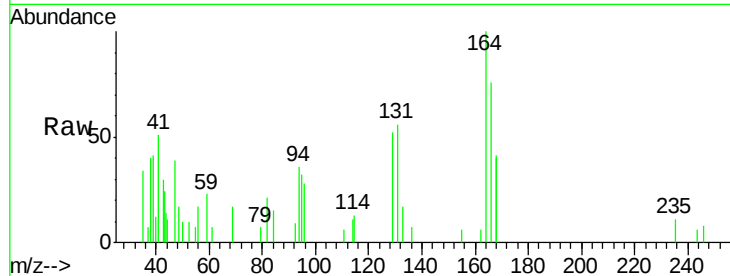
#52
Tetrachloroethene
Concen: 0.032 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Instrument :
MSVOA_L
ClientSampleId :
SR-7C

Tot Ion	Ratio	Lower	Upper
164	100		
166	75.9	105.5	158.3#
129	51.8	81.8	122.8#
131	55.7	81.2	121.8#

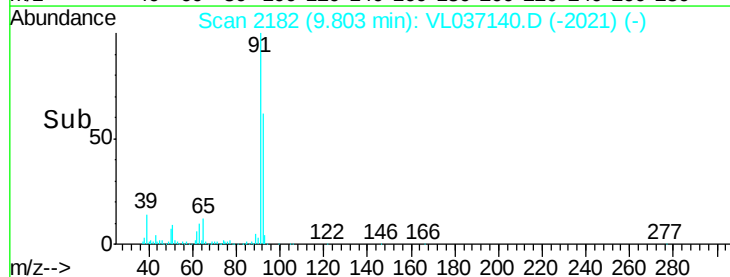
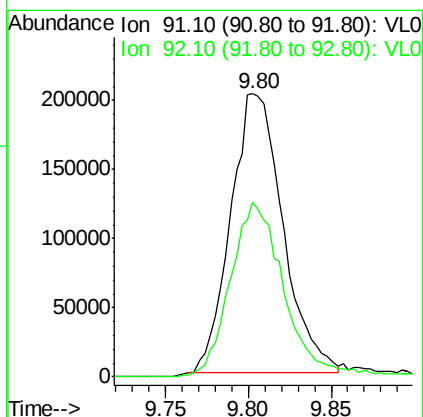
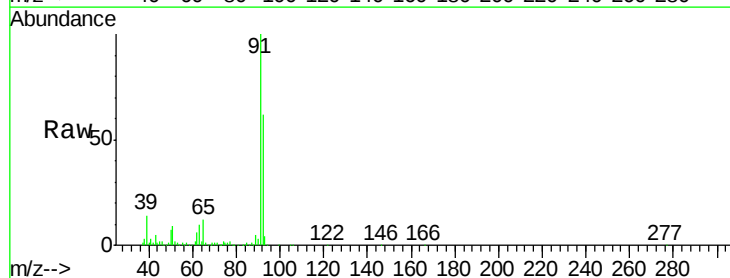
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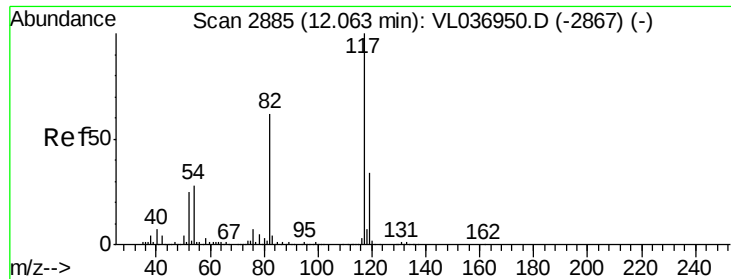
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6/9/2021 4:23:56 PM



#53
Toluene
Concen: 1.126 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	65.7	49.5	74.3





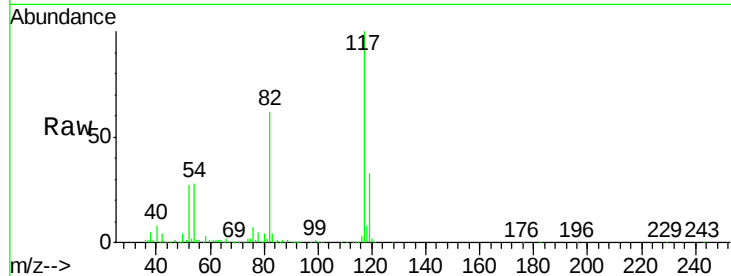
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Instrument :
MSVOA_L
ClientSampled :
SR-7C

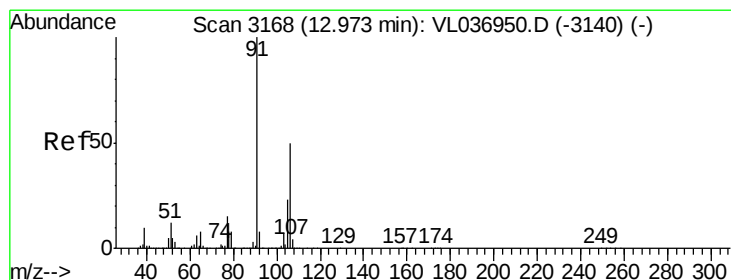
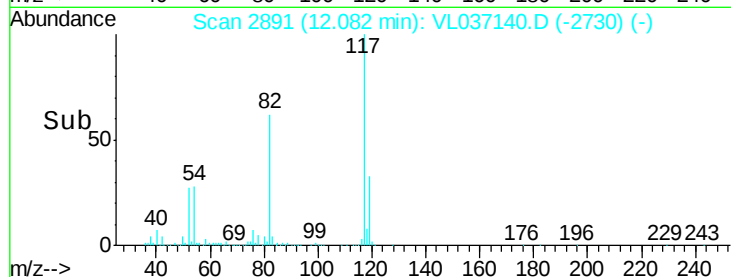
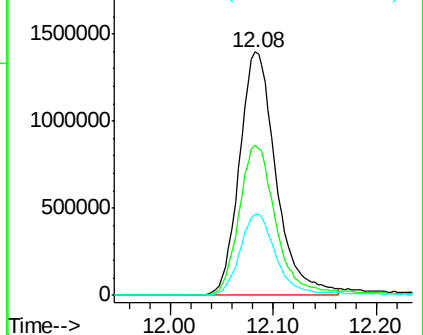
Tot Ion	Ratio	Lower	Upper
117	100		
82	63.9	52.6	79.0
119	34.4	46.6	70.0#

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6/9/2021 4:23:56 PM

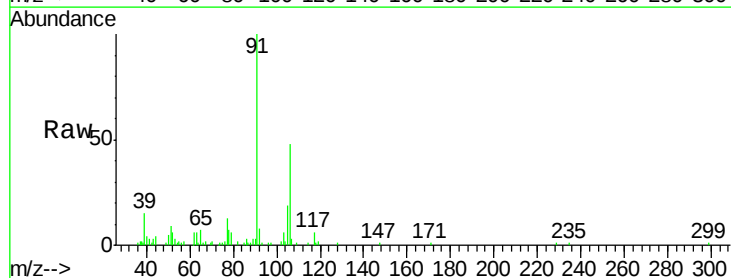


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

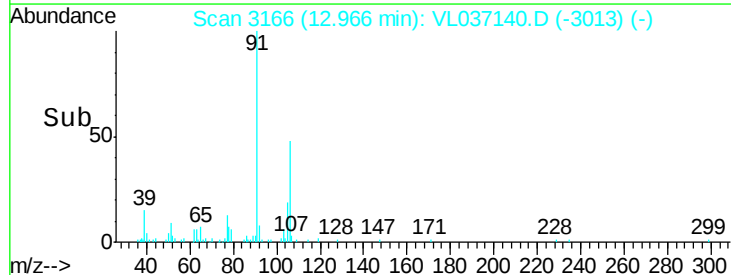
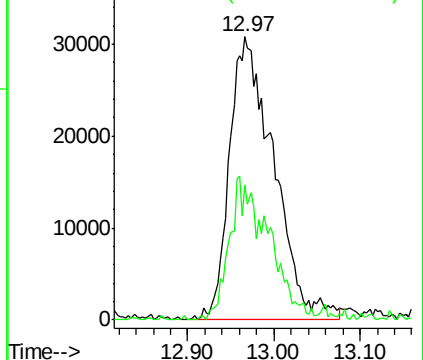


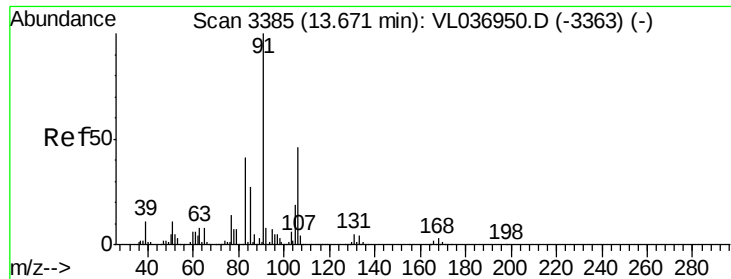
#59
m/p-Xylene
Concen: 0.273 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.01 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Tgt 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





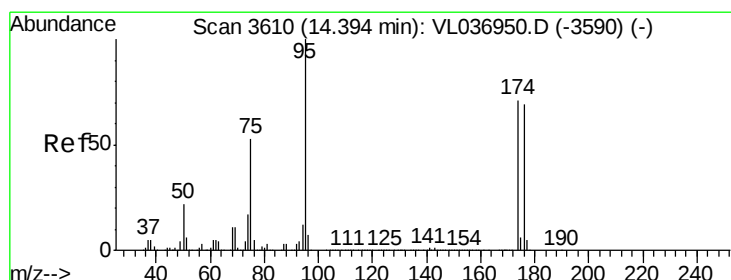
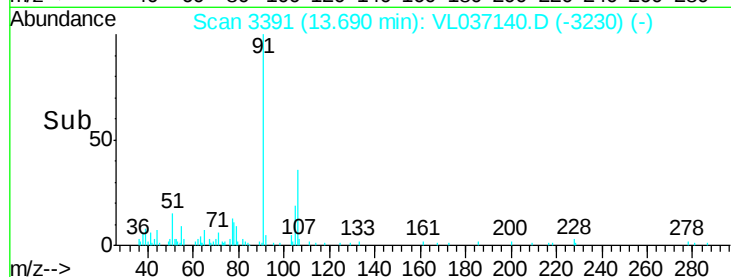
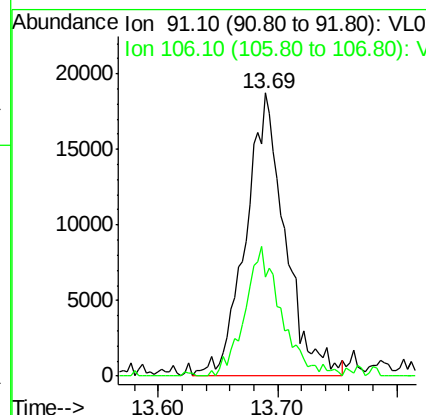
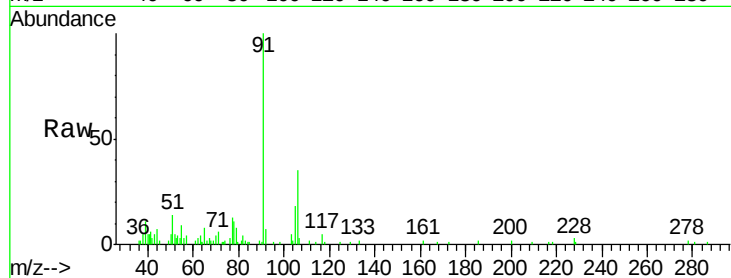
#60
o-Xylene
Concen: 0.112 ppbv m
RT: 13.69 min Scan# 3391
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Instrument :
MSVOA_L
ClientSampled :
SR-7C

Tot Ion: 91 Resp: 43045
Ion Ratio Lower Upper
91 100
106 42.3 23.4 70.3

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6/9/2021 4:23:56 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.698 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.02 min
Lab File: VL037140.D
Acq: 8 Jun 2021 20:19

Tgt Ion: 95 Resp: 2517491
Ion Ratio Lower Upper
95 100
174 75.4 58.4 87.6
175 5.7 4.4 6.6

