

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037224.D
 Acq On : 22 Jun 2021 19:51
 Operator : SY/AP
 Sample : M2807-03DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAQ-01DUP

Manual Integrations
 APPROVED

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 6/24/2021 4:33:00 PM

Quant Time: Jun 24 09:19:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

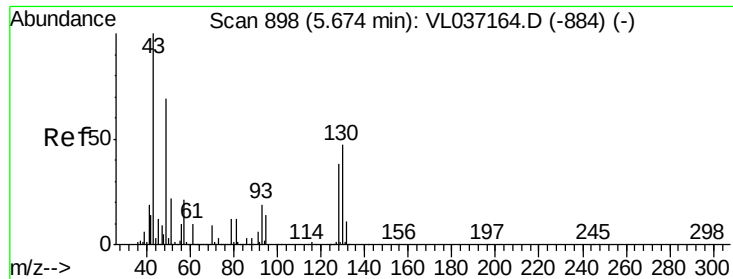
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1093882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3424750	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3203674	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2574164	10.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	39424	0.207	ppbv	96
3) Chlorodifluoromethane	3.00	51	51748m	0.243	ppbv	
4) Chloromethane	3.15	50	47965	0.677	ppbv	97
9) Propene	3.03	41	1455519m	21.402	ppbv	
10) Heptane	8.13	43	402757	2.445	ppbv	100
11) Trichlorofluoromethane	3.96	101	56264m	0.277	ppbv	
13) Ethanol	3.61	45	2392168	227.379	ppbv	49
15) Acetone	3.85	43	6497110m	52.670	ppbv	
17) tert-Butyl alcohol	4.31	59	270241	2.370	ppbv	100
19) Isopropyl Alcohol	3.98	45	307461	4.115	ppbv #	1
20) Methylene Chloride	4.35	84	343160	4.647	ppbv	97
26) Hexane	5.70	57	1332537	9.873	ppbv #	63
30) Cyclohexane	7.14	84	219244	1.950	ppbv #	85
34) 2-Butanone	5.26	43	272224	2.044	ppbv	96
35) Carbon Tetrachloride	7.03	117	16176m	0.070	ppbv	
36) Benzene	6.91	78	85865	0.310	ppbv #	88
44) 2,2,4-Trimethylpentane	7.88	57	174963	0.375	ppbv #	33
52) Tetrachloroethene	11.23	164	4375m	0.034	ppbv	
53) Toluene	9.82	91	965262	2.918	ppbv	100
58) Ethyl Benzene	12.72	91	591861	1.342	ppbv	95
59) m/p-Xylene	12.98	91	1977727	5.292	ppbv	98
60) o-Xylene	13.71	91	663926	1.866	ppbv	98
61) Styrene	13.54	104	218997	1.192	ppbv	94
62) Isopropylbenzene	14.68	105	81704m	0.161	ppbv	
64) n-propylbenzene	15.57	120	34878m	0.275	ppbv	
65) tert-Butylbenzene	16.77	119	73651m	0.164	ppbv	
70) n-Butylbenzene	18.56	91	70369m	0.150	ppbv	
72) 4-Ethyltoluene	15.85	105	173918	0.430	ppbv	97
73) 1,3,5-Trimethylbenzene	16.00	105	194685	0.498	ppbv	89
74) 1,2,4-Trimethylbenzene	16.77	105	557738	1.385	ppbv #	72
79) Naphthalene	22.22	128	58946m	0.176	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

ClientSampleId :

IAQ-01DUP

Tot Ion: 49 Resp: 1093882

Ion Ratio Lower Upper

49 100

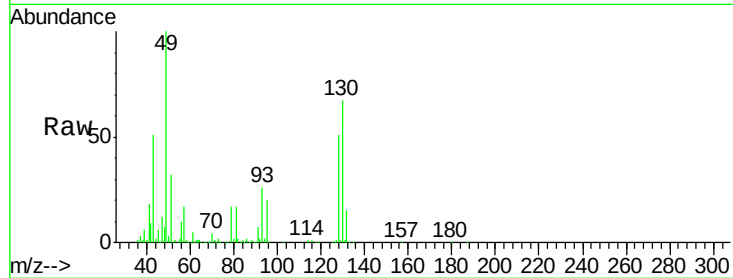
128 56.2 29.3 88.0

130 72.0 35.9 107.8

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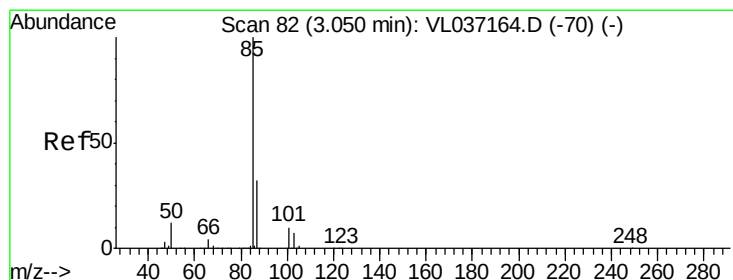
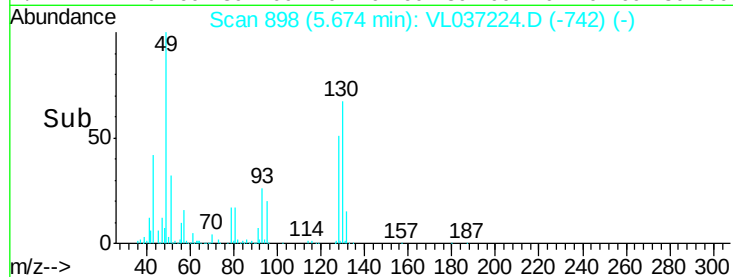
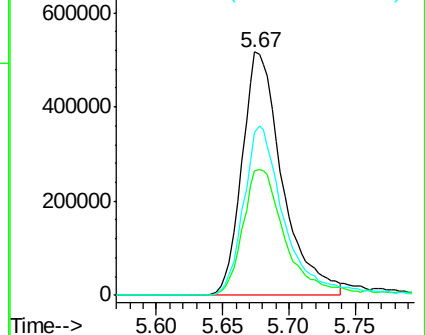
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.207 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL037224.D

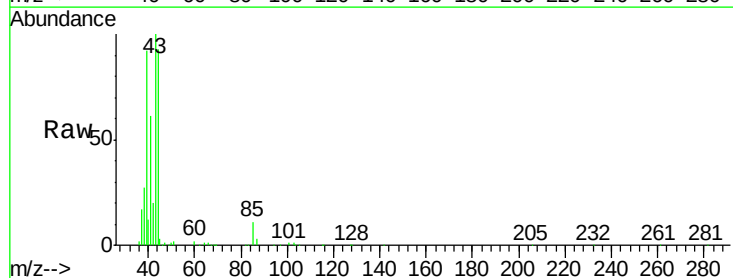
Acq: 22 Jun 2021 19:51

Tgt Ion: 85 Resp: 39424

Ion Ratio Lower Upper

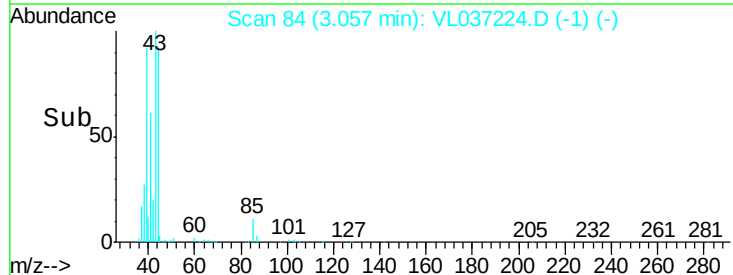
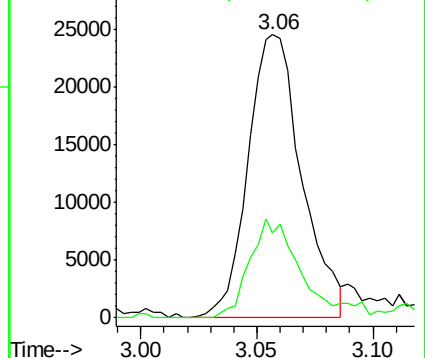
85 100

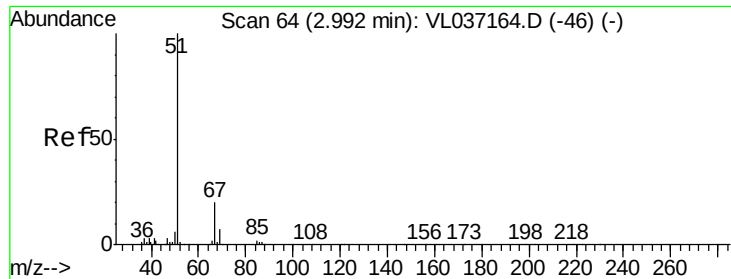
87 30.0 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

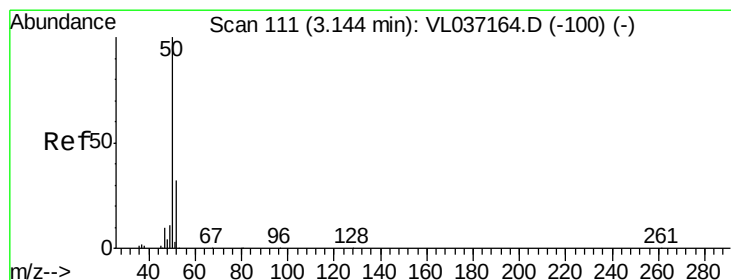
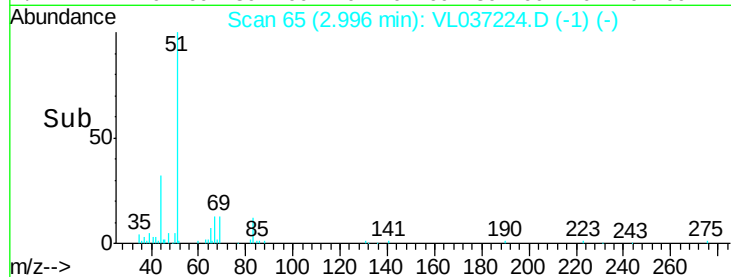
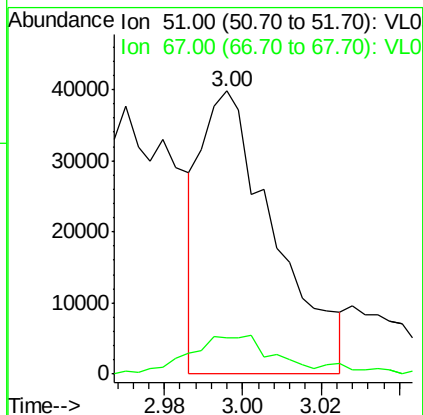
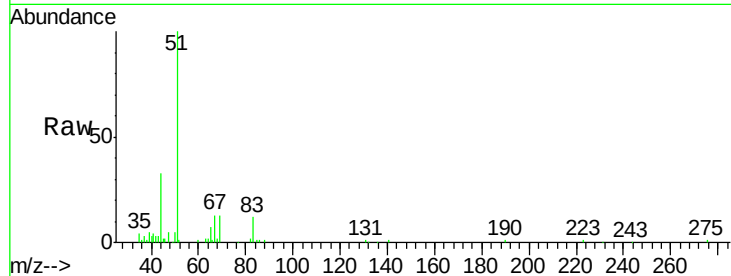
Chlorodifluoromethane
 Concen: 0.243 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. 0.00 min
 Lab File: VL037224.D
 Acq: 22 Jun 2021 19:51

Instrument :
 MSVOA_L
 ClientSampleId :
 IAQ-01DUP

Tot Ion	51	Resp	51748
Ion	Ratio	Lower	Upper
51	100		
67	17.8	15.8	23.6

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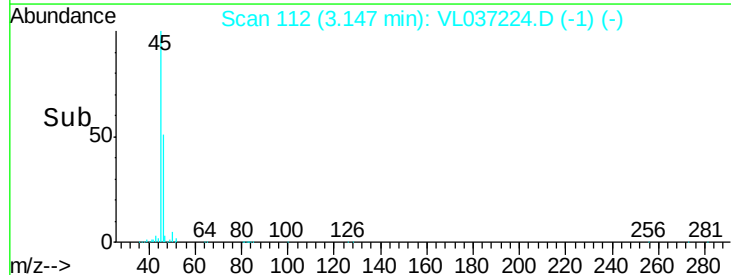
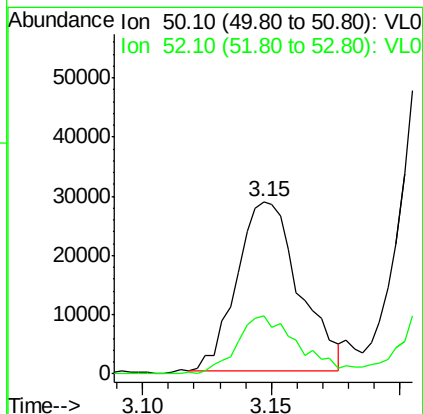
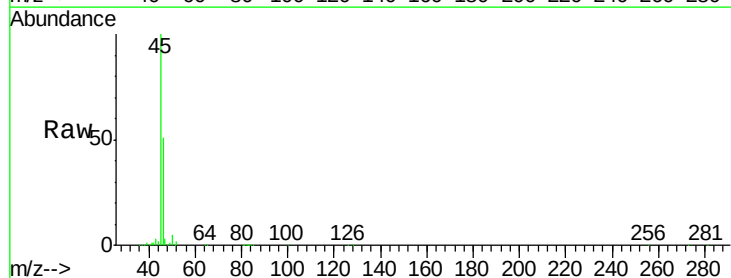
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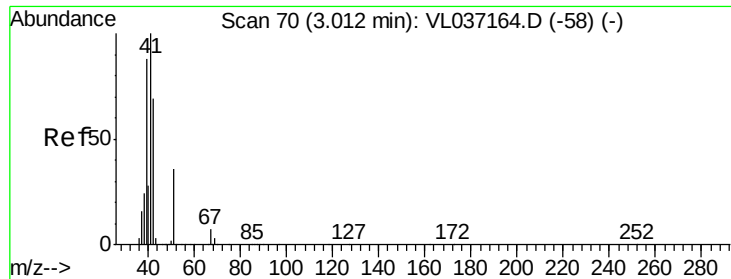


#4

Chloromethane
 Concen: 0.677 ppbv
 RT: 3.15 min Scan# 112
 Delta R.T. 0.00 min
 Lab File: VL037224.D
 Acq: 22 Jun 2021 19:51

Tgt Ion	50	Resp	47965
Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.8	38.8





#9

Propene

Concen: 21.402 ppbv m

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

ClientSampleId :

IAQ-01DUP

Tot Ion: 41 Resp: 145519

Ion Ratio Lower Upper

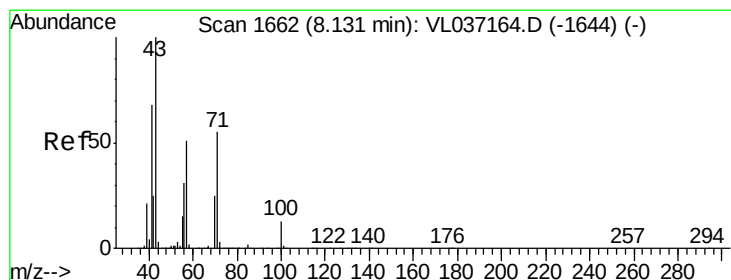
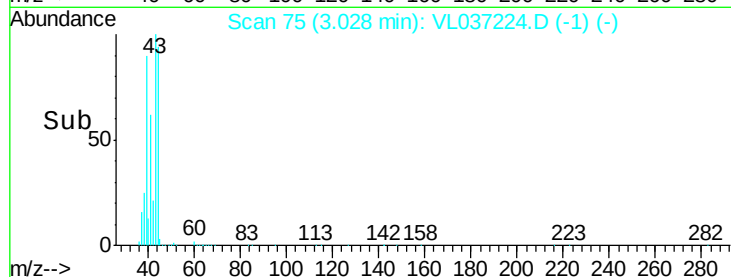
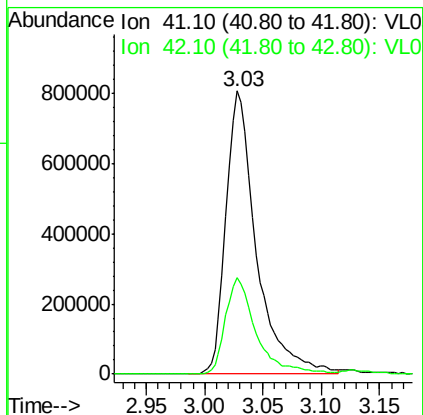
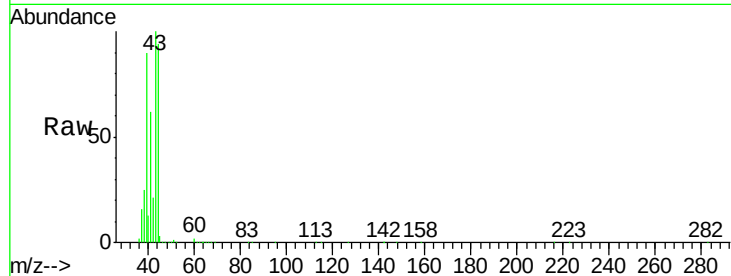
41 100

42 184.4 54.5 81.7#

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#10

Heptane

Concen: 2.445 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.00 min

Lab File: VL037224.D

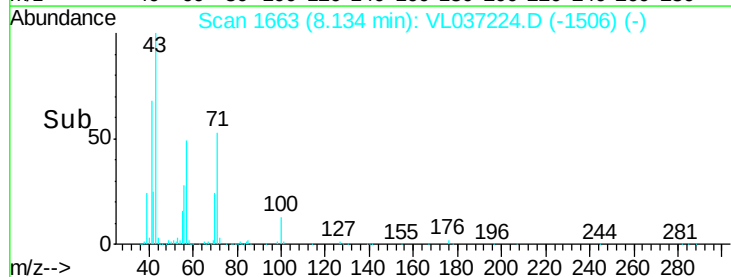
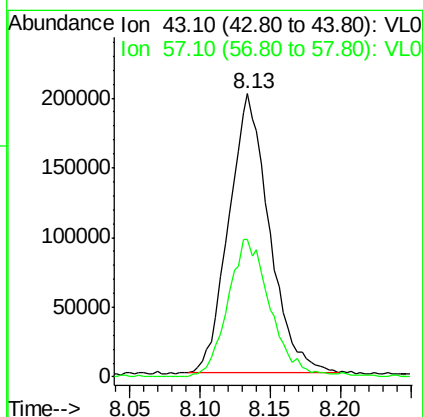
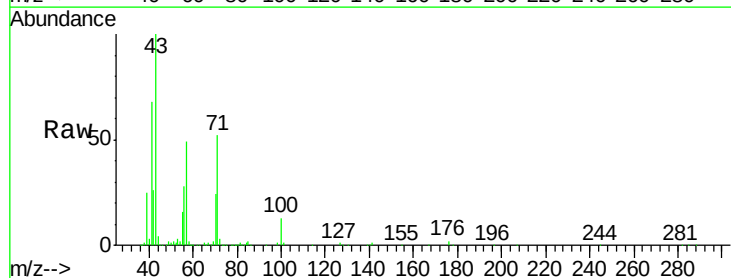
Acq: 22 Jun 2021 19:51

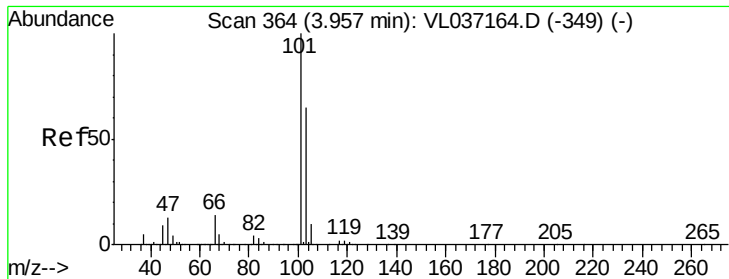
Tgt Ion: 43 Resp: 402757

Ion Ratio Lower Upper

43 100

57 51.1 40.6 61.0





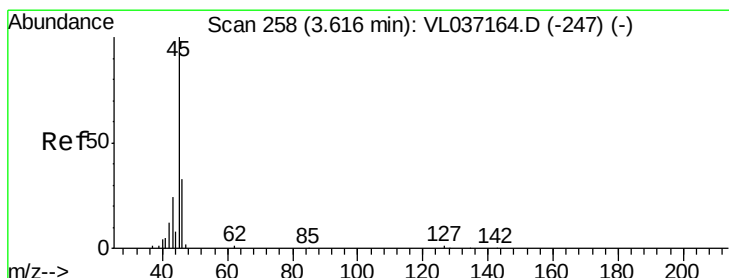
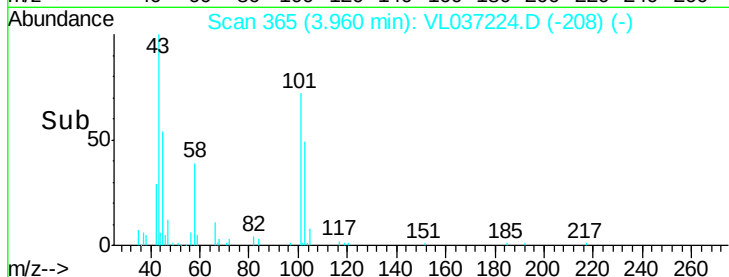
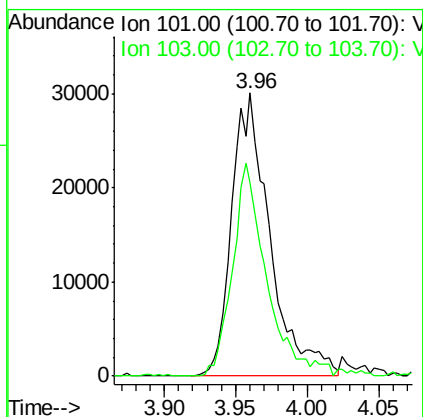
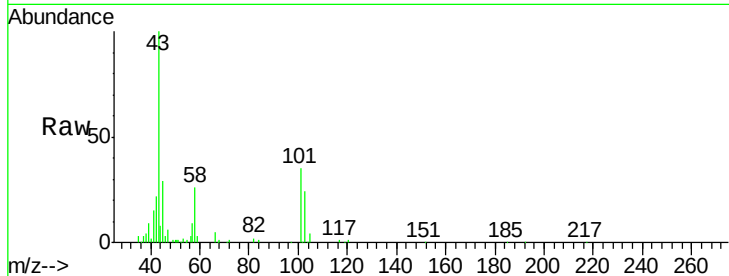
#11
Trichlorofluoromethane
Concen: 0.277 ppbv m
RT: 3.96 min Scan# 365
Delta R.T. 0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Instrument :
MSVOA_L
ClientSampleId :
IAQ-01DUP

Tot Ion:101 Resp: 56264
Ion Ratio Lower Upper
101 100
103 68.4 52.2 78.4

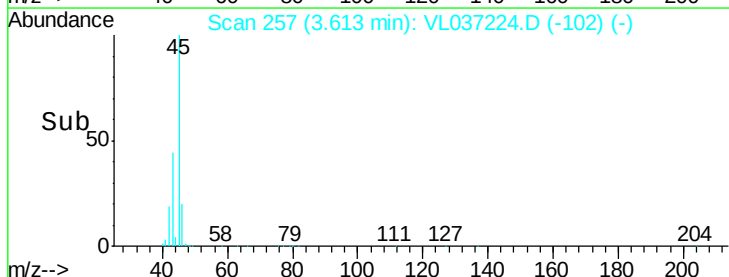
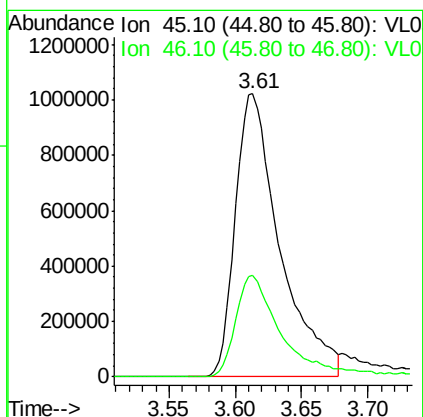
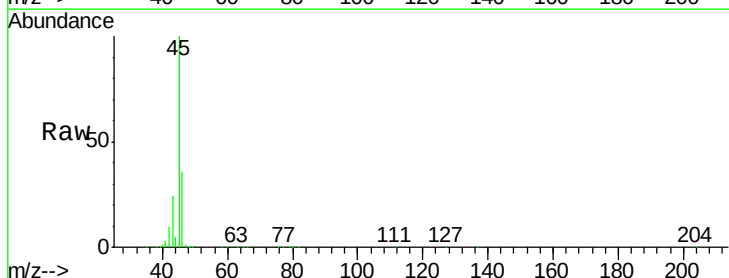
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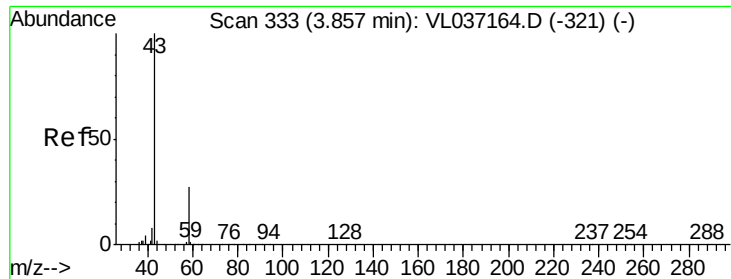
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#13
Ethanol
Concen: 227.379 ppbv
RT: 3.61 min Scan# 257
Delta R.T. -0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Tgt Ion: 45 Resp: 2392168
Ion Ratio Lower Upper
45 100
46 38.4 34.2 137.0





#15

Acetone

Concen: 52.670 ppbv m

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

ClientSampleId :

IAQ-01DUP

Tot Ion: 43 Resp: 6497110

Ion Ratio Lower Upper

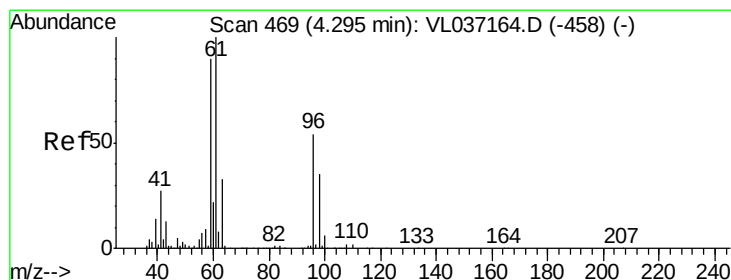
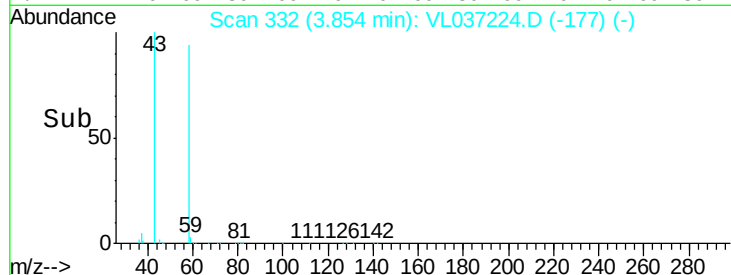
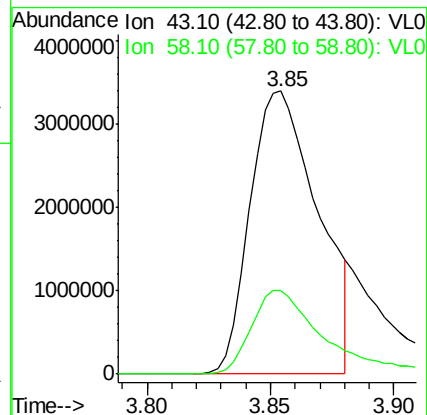
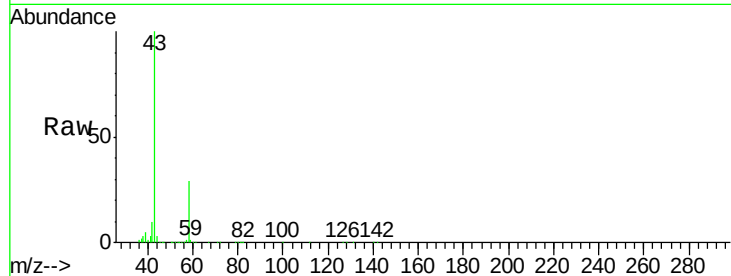
43 100

58 34.1 23.7 35.5

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#17

tert-Butyl alcohol

Concen: 2.370 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL037224.D

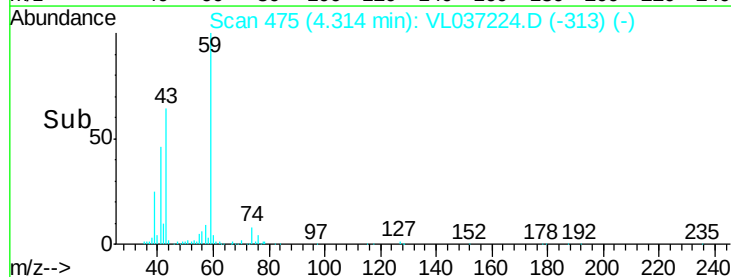
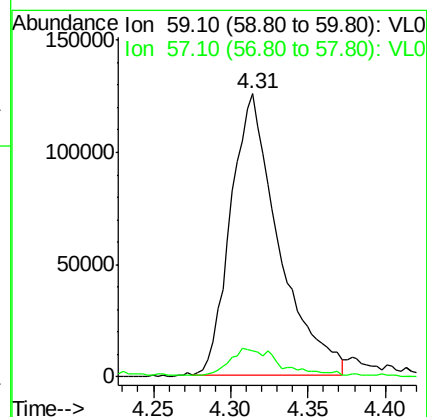
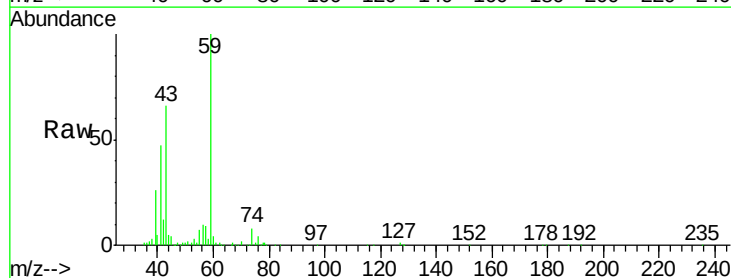
Acq: 22 Jun 2021 19:51

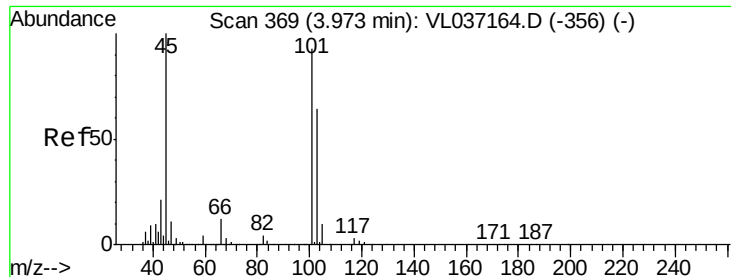
Tgt Ion: 59 Resp: 270241

Ion Ratio Lower Upper

59 100

57 11.1 8.8 13.2





#19

Isopropyl Alcohol

Concen: 4.115 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

ClientSampleId :

IAQ-01DUP

Tot Ion: 45 Resp: 307461

Ion Ratio Lower Upper

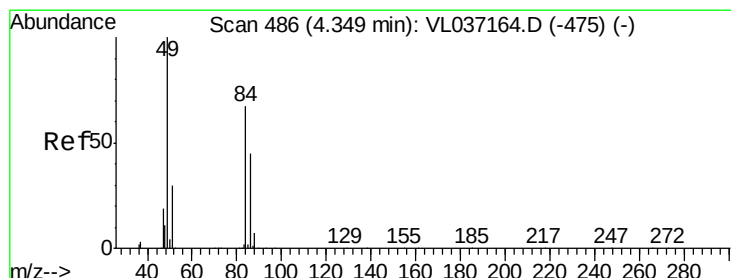
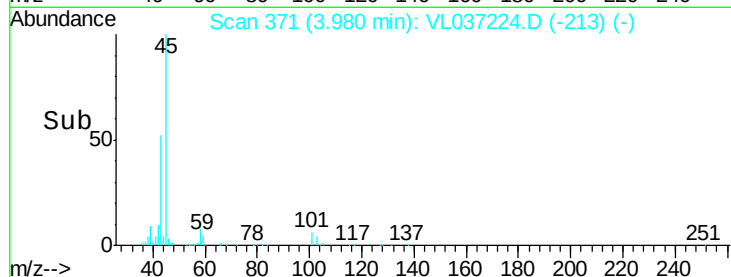
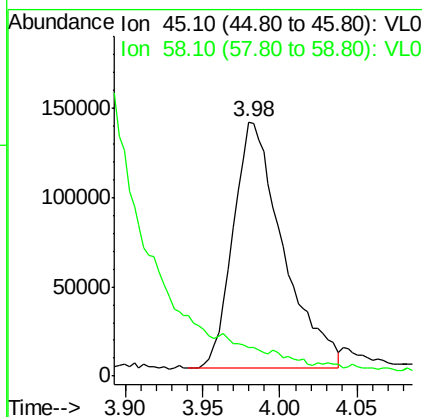
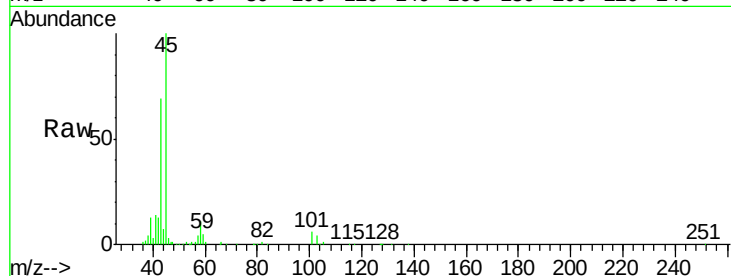
45 100

58 720.6 2.4 3.6#

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#20

Methylene Chloride

Concen: 4.647 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Tgt Ion: 84 Resp: 343160

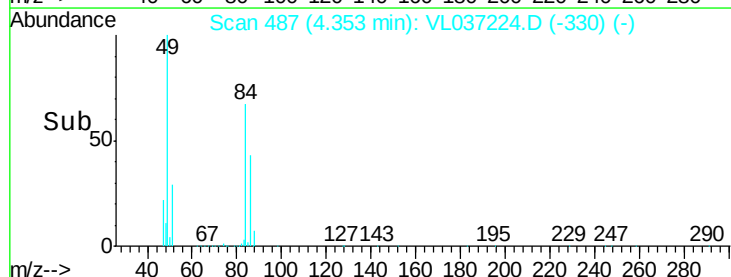
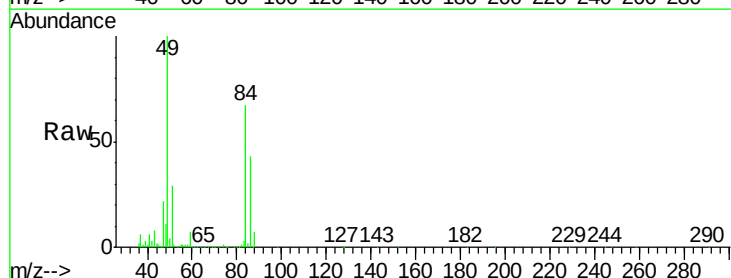
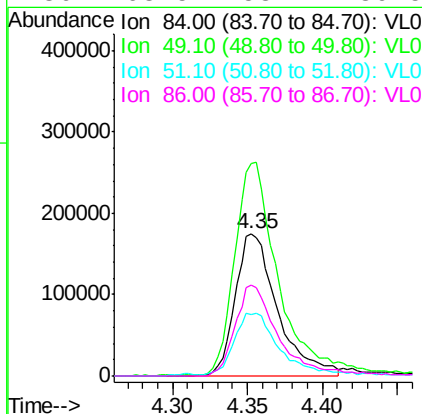
Ion Ratio Lower Upper

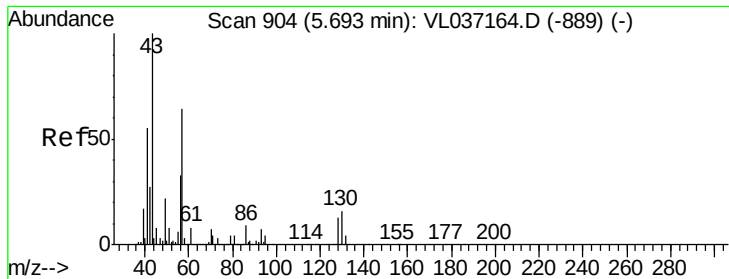
84 100

49 148.4 119.7 179.5

51 40.8 36.1 54.1

86 63.5 53.7 80.5





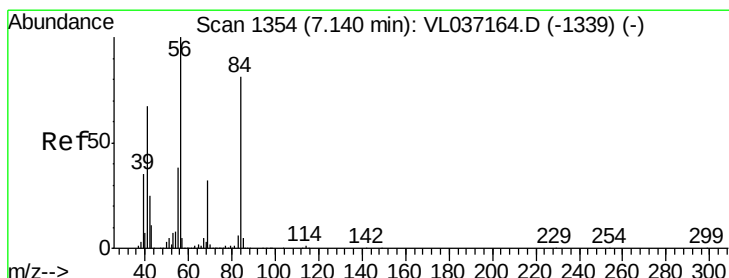
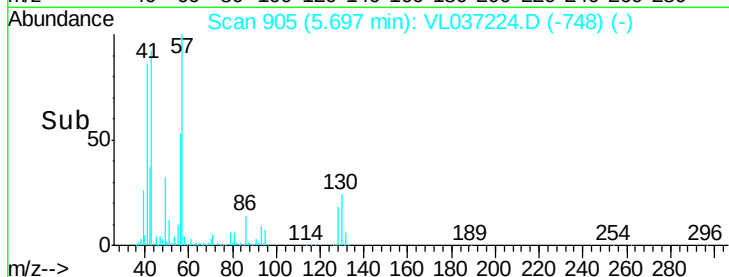
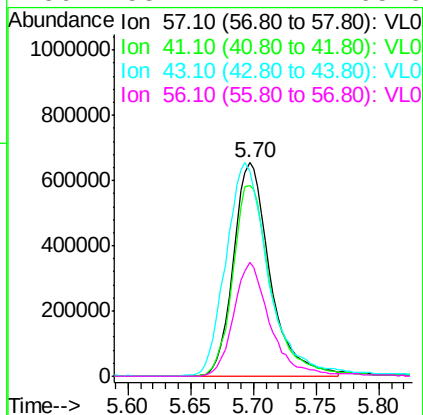
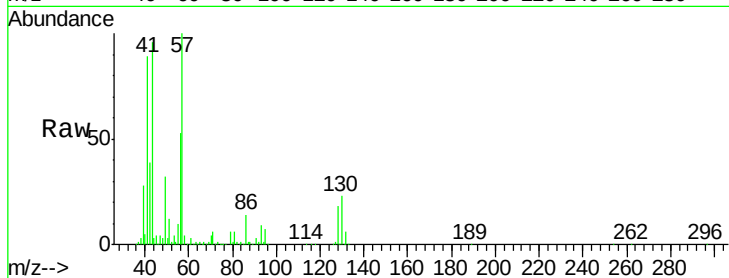
#26
Hexane
Concen: 9.873 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Instrument :
MSVOA_L
ClientSampled :
IAQ-01DUP

Tot Ion	57	Resp	1332537
Ion	Ratio	Lower	Upper
57	100		
41	93.4	73.5	110.3
43	116.9	170.7	256.1#
56	53.7	42.4	63.6

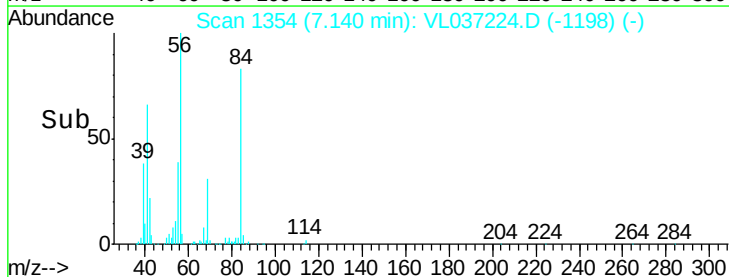
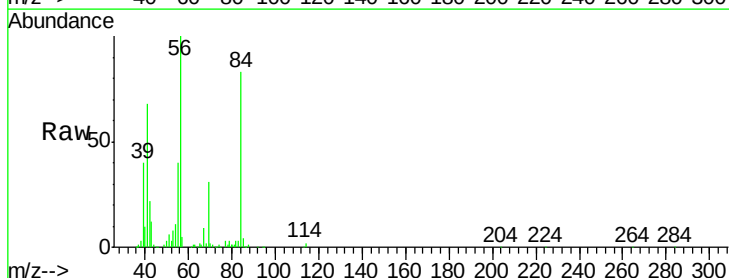
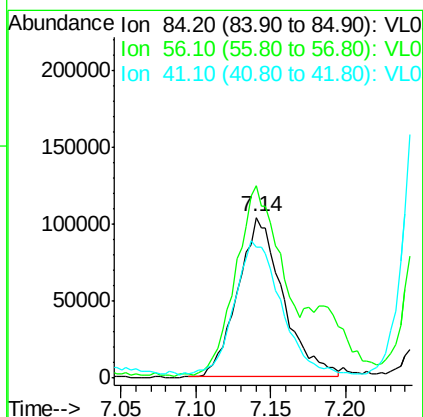
Manual Integrations
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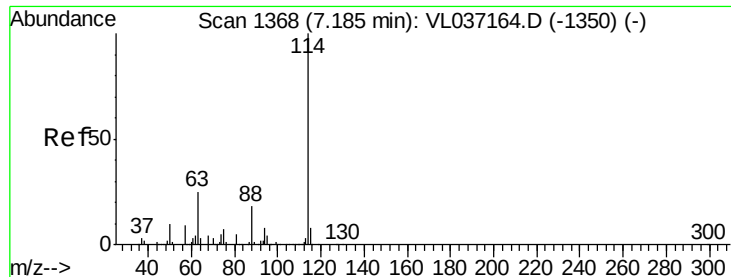
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#30
Cyclohexane
Concen: 1.950 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Tgt Ion	84	Resp	219244
Ion	Ratio	Lower	Upper
84	100		
56	161.6	107.7	161.5#
41	89.8	69.0	103.6





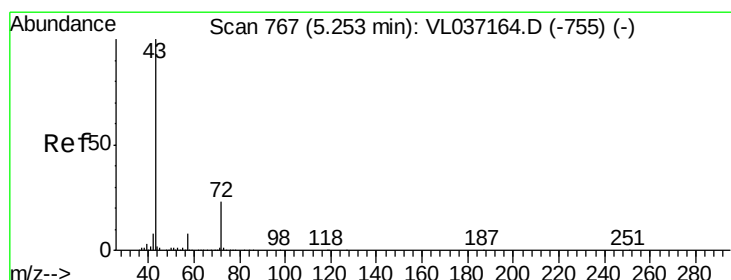
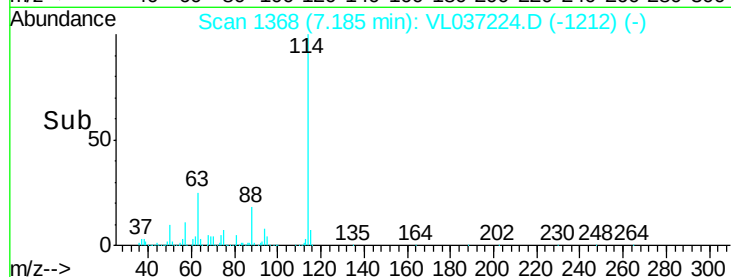
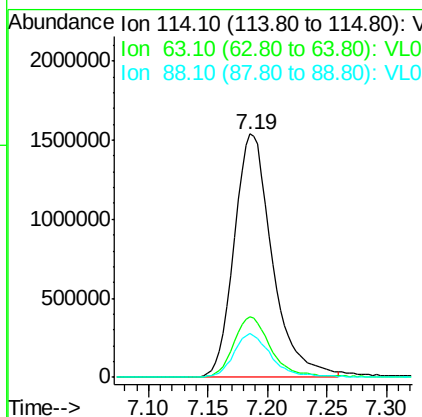
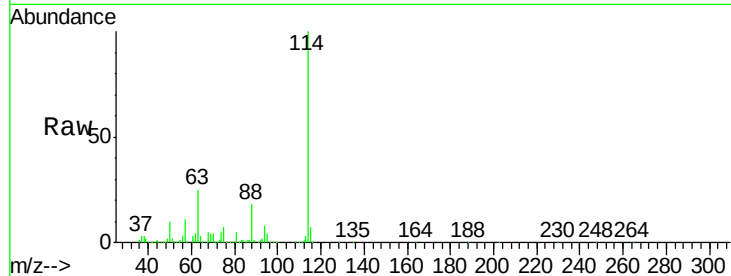
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VL037224.D
 Acq: 22 Jun 2021 19:51

Instrument :
 MSVOA_L
 ClientSampleId :
 IAQ-01DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.6	29.4
88	18.0	14.2	21.2

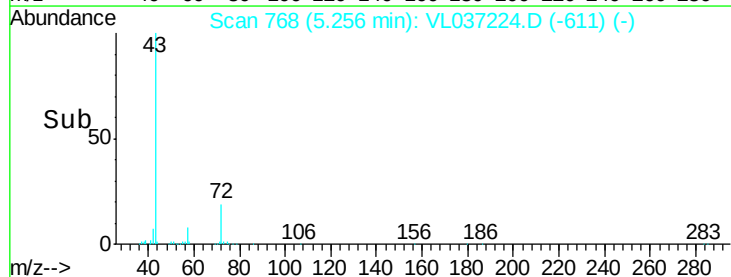
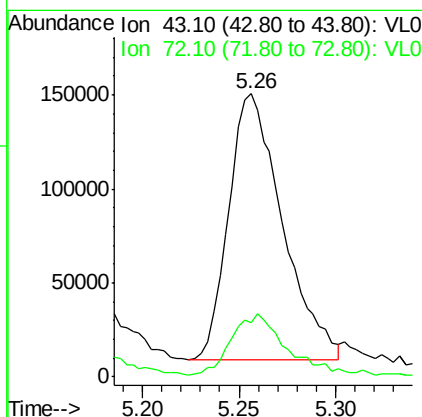
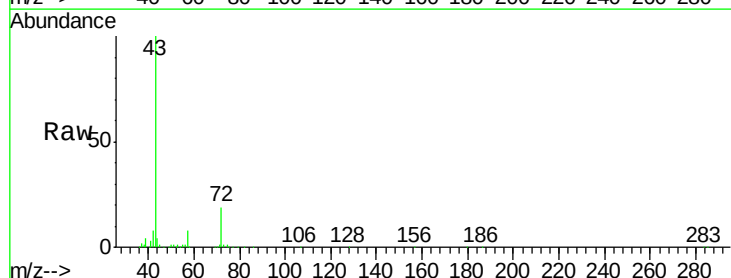
Manual Integrations
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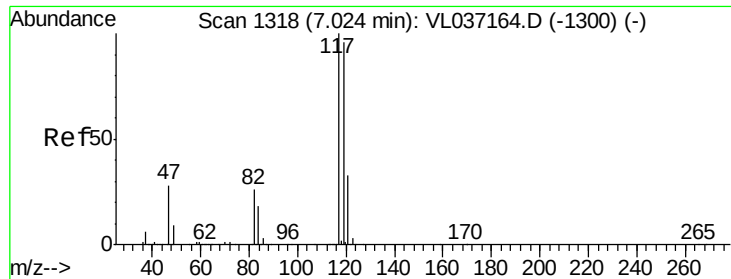
MMDadoda
 6/24/2021 4:33:00 PM



#34
 2-Butanone
 Concen: 2.044 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.00 min
 Lab File: VL037224.D
 Acq: 22 Jun 2021 19:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.5	18.9	28.3





#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

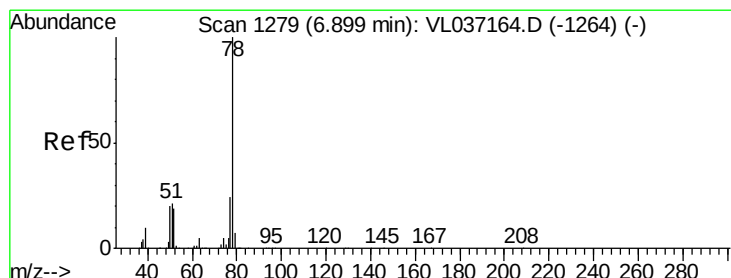
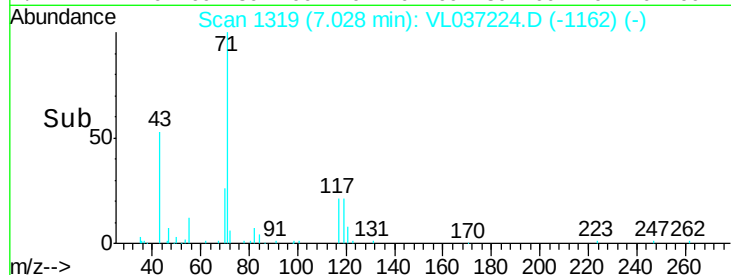
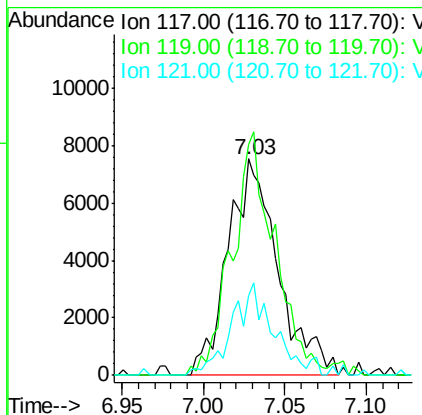
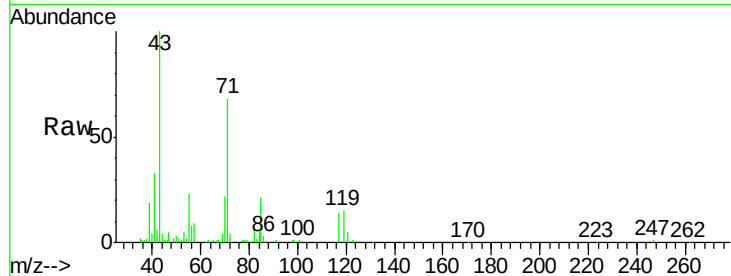
ClientSampleId :

IAQ-01DUP

Tot Ion:	117	Resp:	16176
Ion	Ratio	Lower	Upper
117	100		
119	106.7	76.6	114.8
121	36.9	26.4	39.6

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#36

Benzene

Concen: 0.310 ppbv

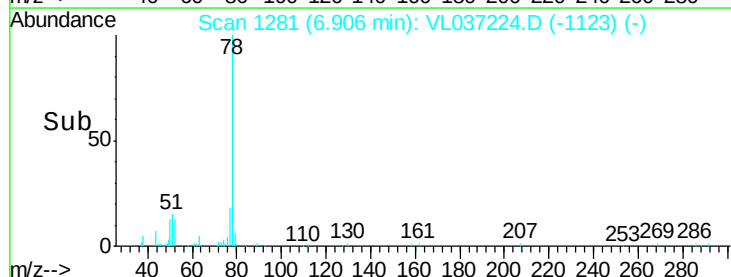
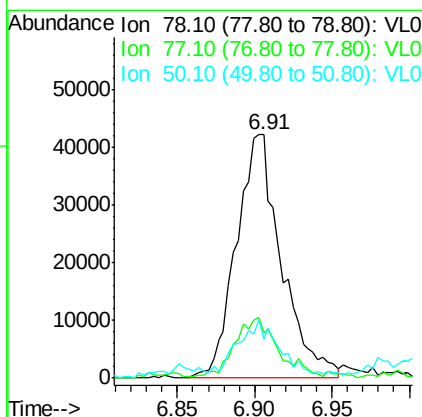
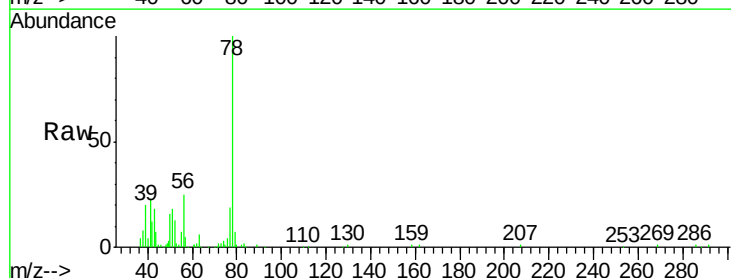
RT: 6.91 min Scan# 1281

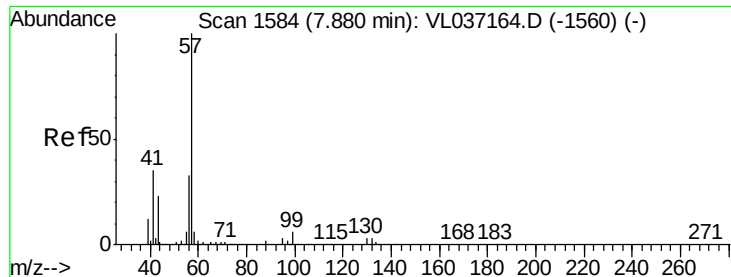
Delta R.T. 0.01 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Tgt Ion:	78	Resp:	85865
Ion	Ratio	Lower	Upper
78	100		
77	17.9	19.0	28.6#
50	13.7	15.7	23.5#





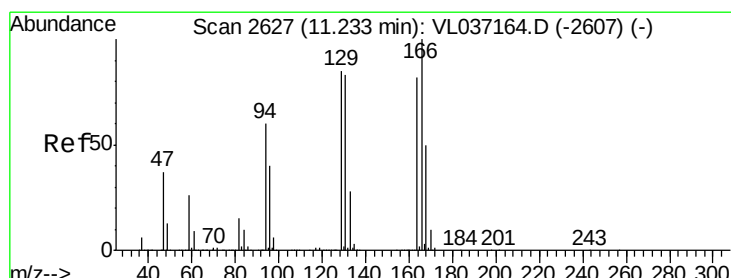
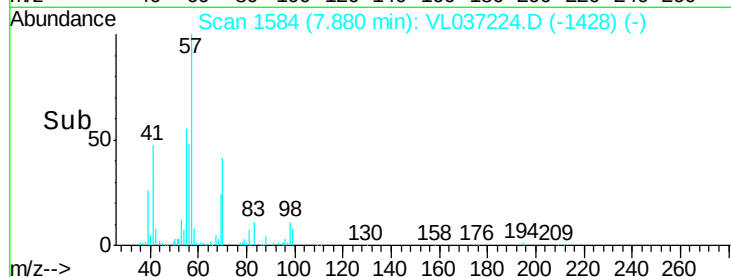
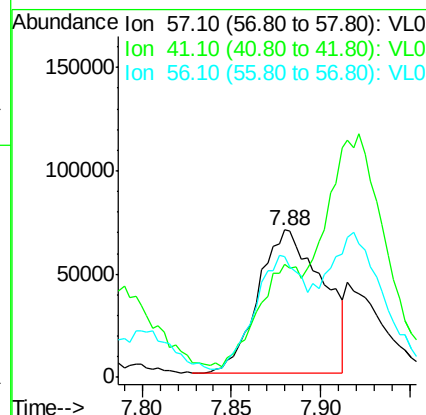
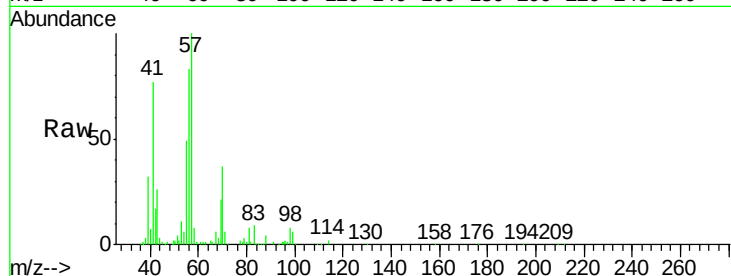
#44
2,2,4-Trimethylpentane
Concen: 0.375 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Instrument :
MSVOA_L
ClientSampleId :
IAQ-01DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.6	41.4#
56	72.7	25.3	37.9#

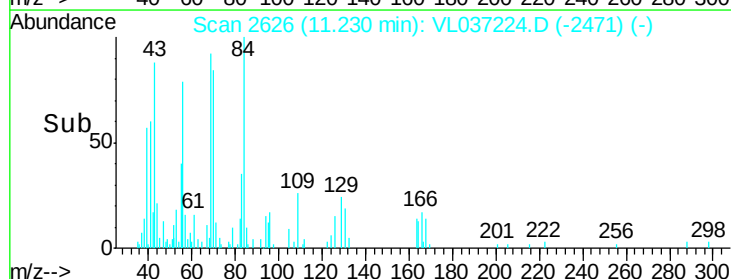
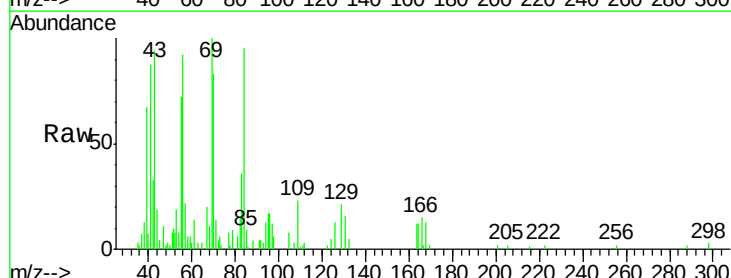
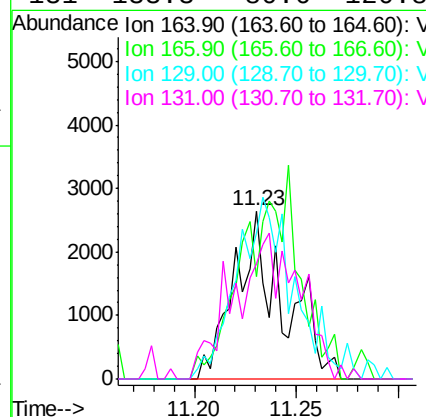
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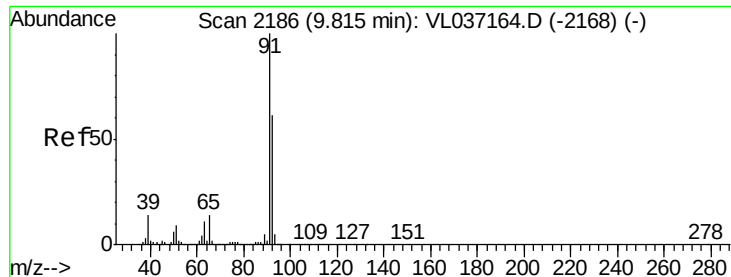
MMDadoda
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#52
Tetrachloroethene
Concen: 0.034 ppbv m
RT: 11.23 min Scan# 2626
Delta R.T. -0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.9	97.6	146.4
129	169.0	82.9	124.3#
131	133.3	80.6	120.8#





#53

Toluene

Concen: 2.918 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

ClientSampleId :

IAQ-01DUP

Tot Ion: 91 Resp: 965262

Ion Ratio Lower Upper

91 100

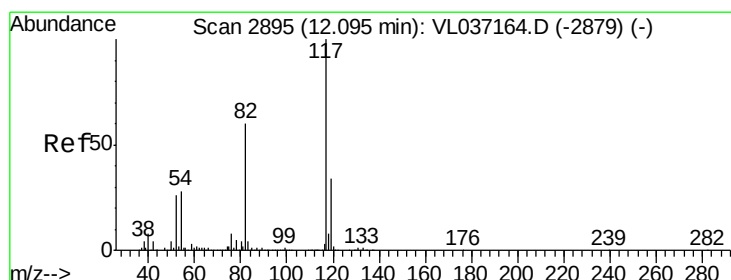
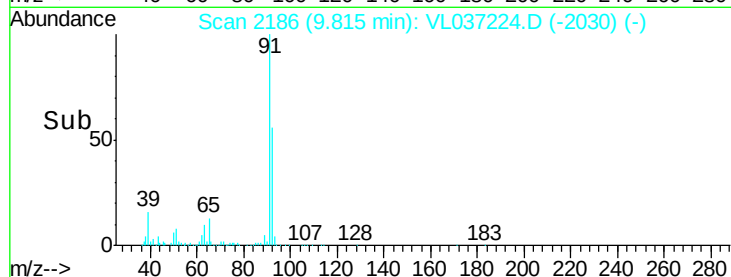
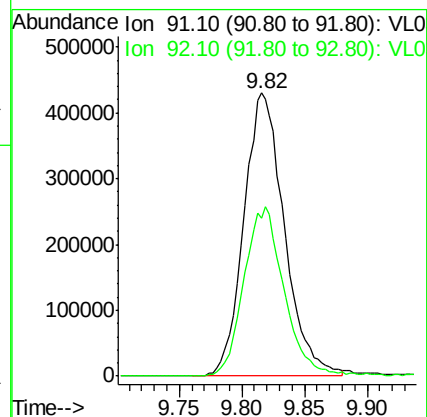
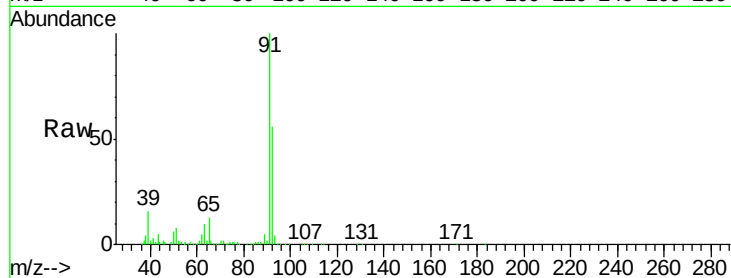
92 60.3 48.3 72.5

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

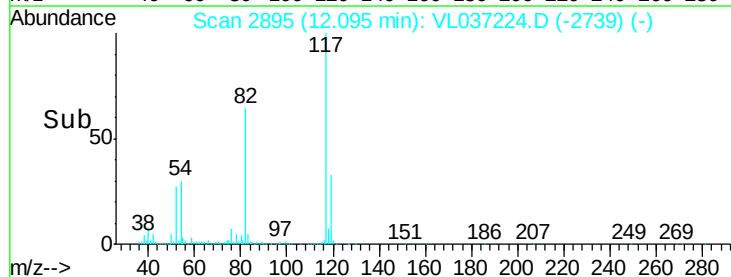
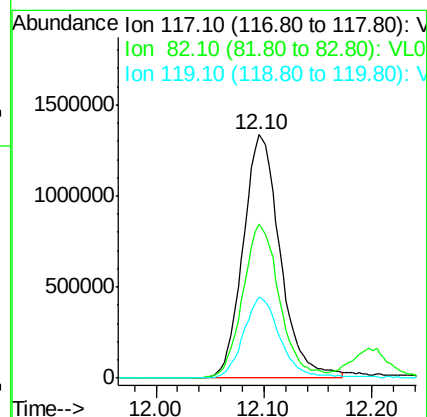
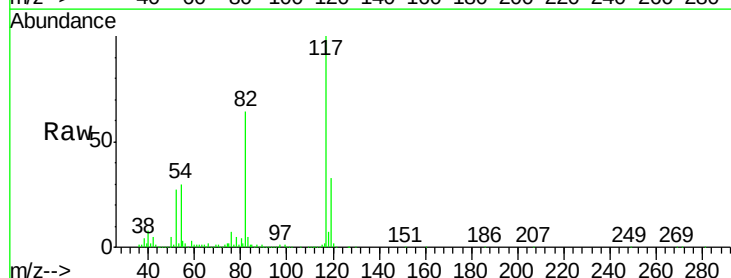
Tgt Ion: 117 Resp: 3203674

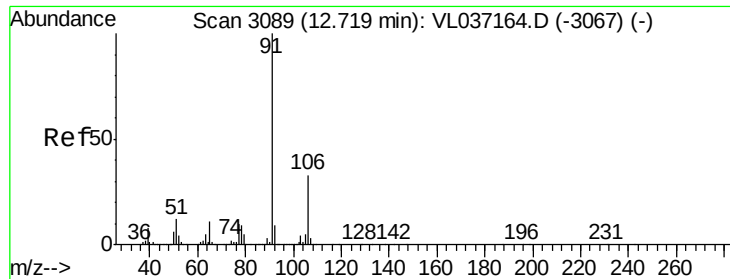
Ion Ratio Lower Upper

117 100

82 62.6 51.7 77.5

119 33.6 47.6 71.4#





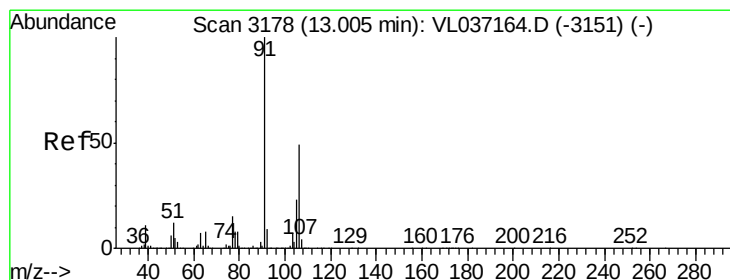
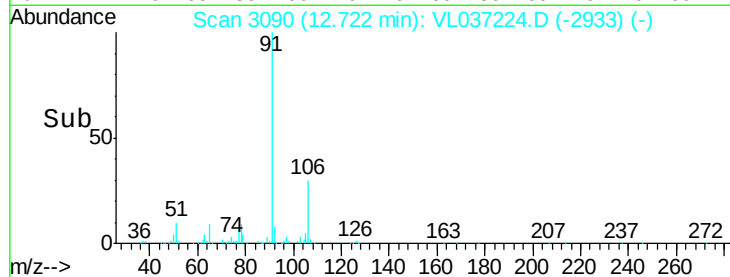
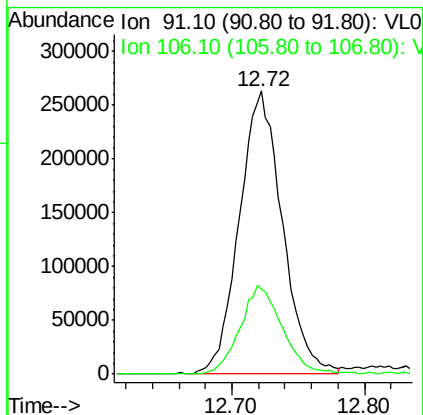
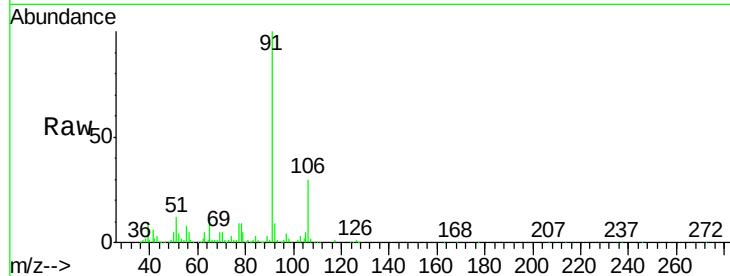
#58
Ethyl Benzene
Concen: 1.342 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. 0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Instrument :
MSVOA_L
ClientSampleId :
IAQ-01DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.2	26.3	39.5

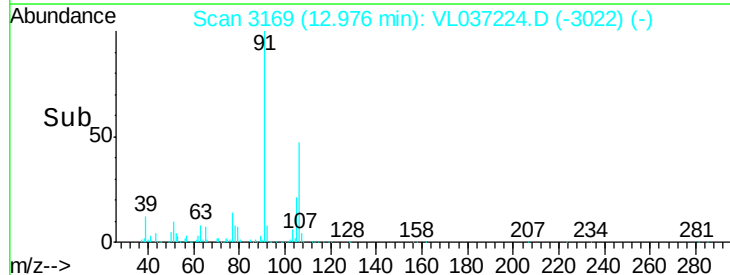
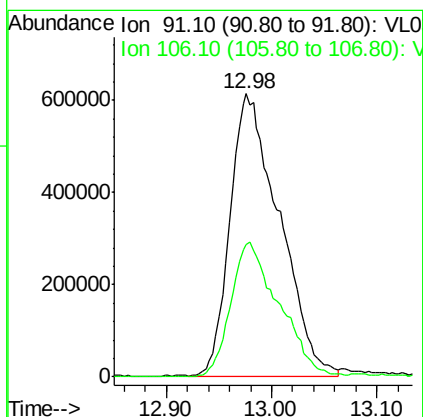
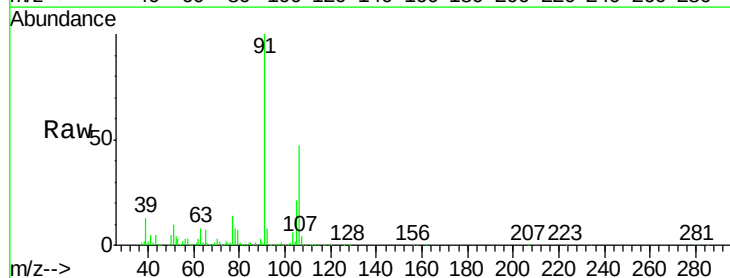
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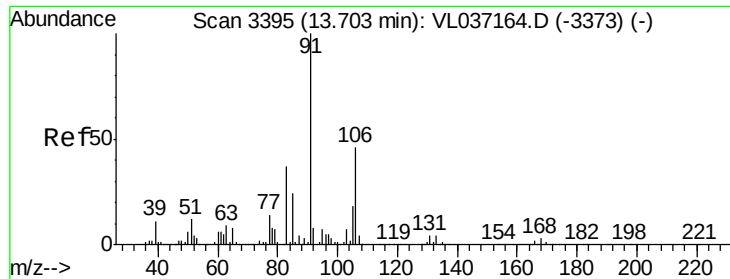
MMDadoda
6/24/2021 4:33:00 PM



#59
m/p-Xylene
Concen: 5.292 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.5	37.0	55.4





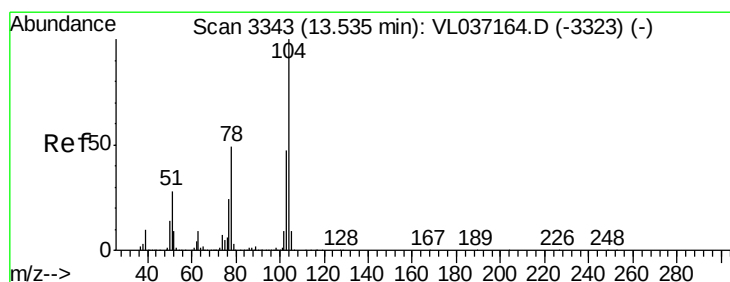
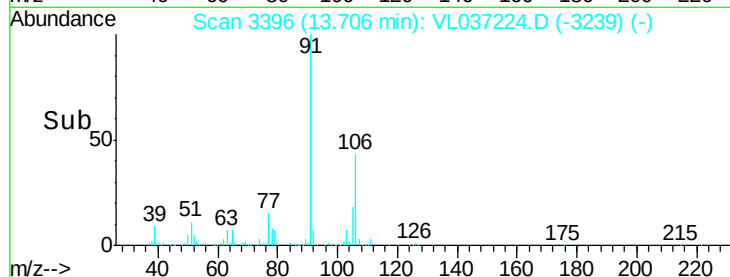
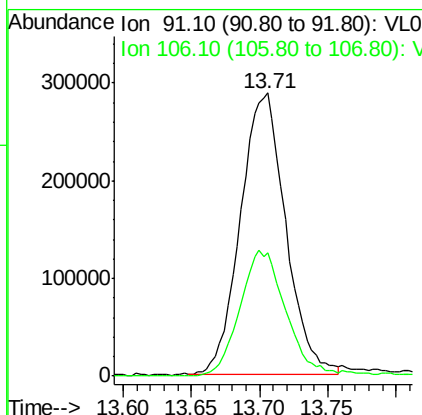
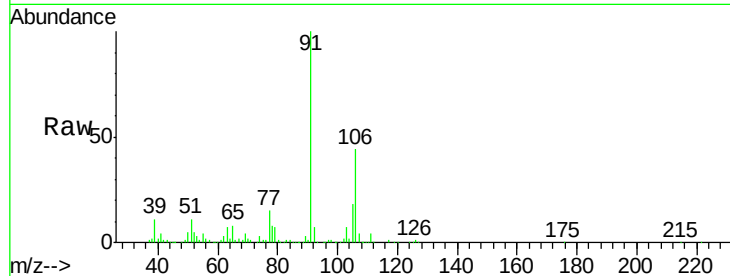
#60
o-Xylene
Concen: 1.866 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Instrument :
MSVOA_L
ClientSampleId :
IAQ-01DUP

Tot Ion: 91 Resp: 663926
Ion Ratio Lower Upper
91 100
106 47.0 23.0 69.0

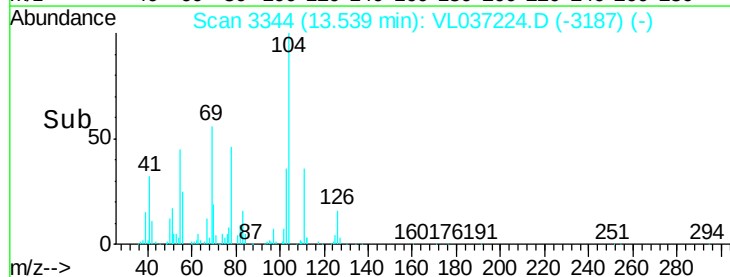
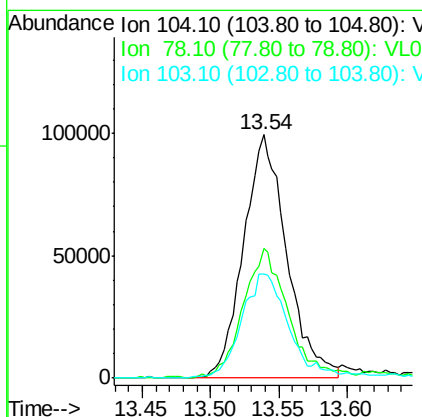
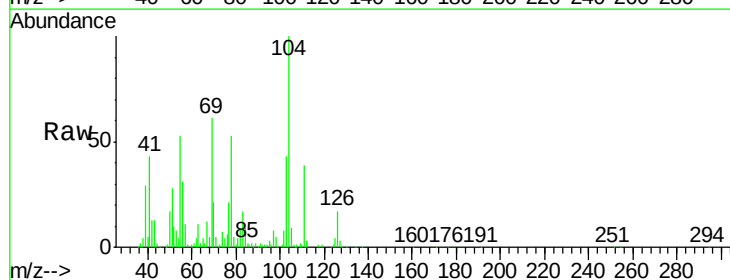
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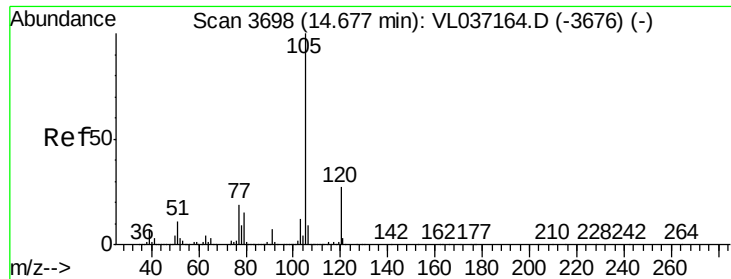
MMDadoda
6/24/2021 4:33:00 PM



#61
Styrene
Concen: 1.192 ppbv
RT: 13.54 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Tgt Ion: 104 Resp: 218997
Ion Ratio Lower Upper
104 100
78 57.3 39.7 59.5
103 47.8 37.6 56.4





#62

Isopropylbenzene

Concen: 0.161 ppbv m

RT: 14.68 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

ClientSampleId :

IAQ-01DUP

Tot Ion:105 Resp: 81704

Ion Ratio Lower Upper

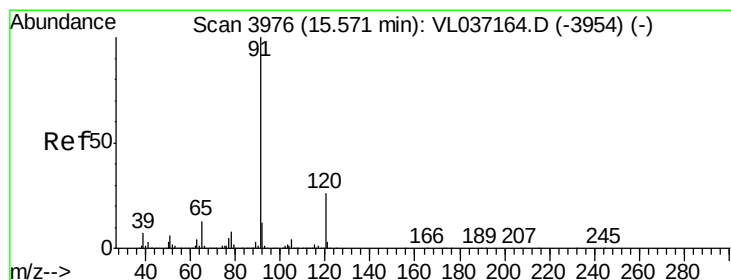
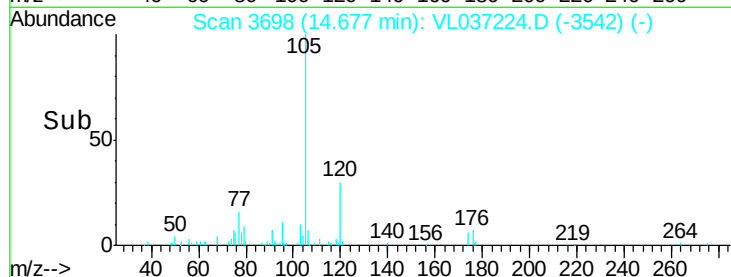
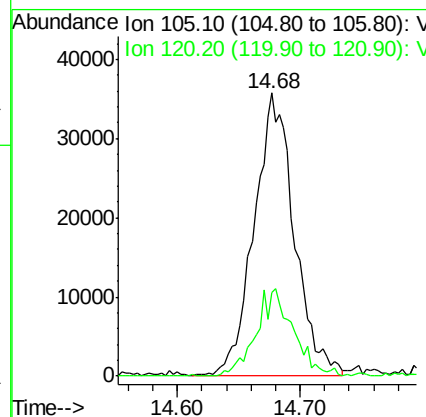
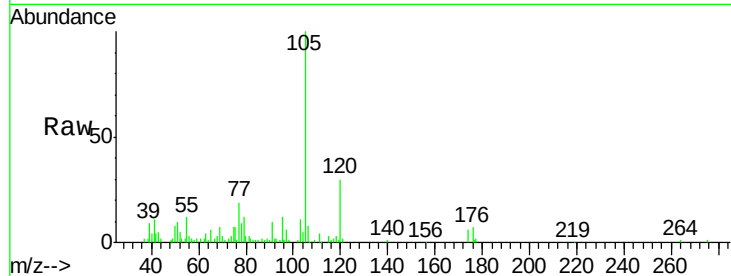
105 100

120 0.0 21.6 32.4#

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#64

n-propylbenzene

Concen: 0.275 ppbv m

RT: 15.57 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL037224.D

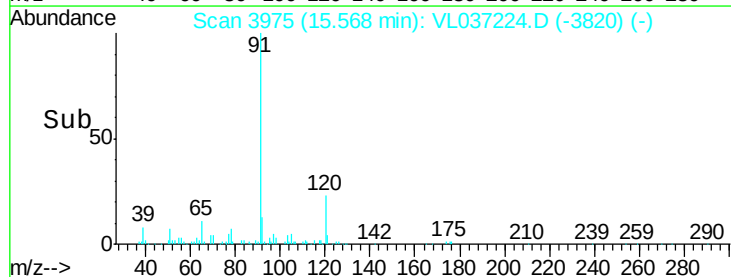
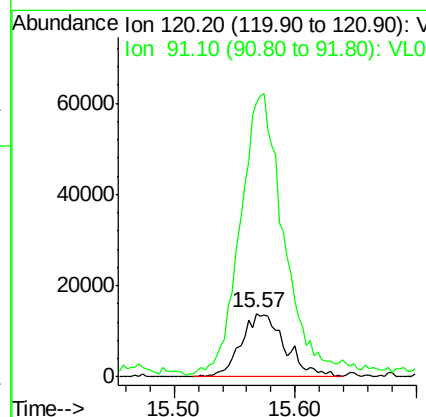
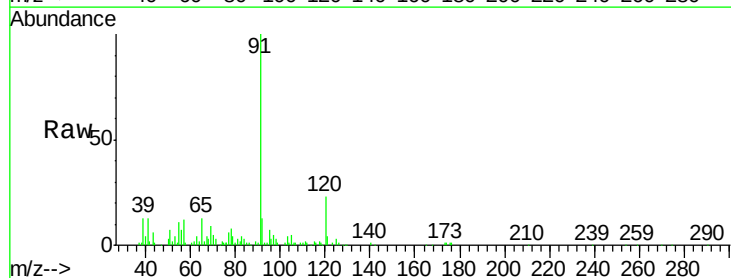
Acq: 22 Jun 2021 19:51

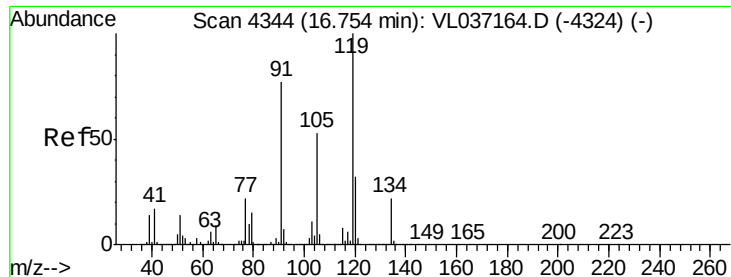
Tgt Ion:120 Resp: 34878

Ion Ratio Lower Upper

120 100

91 447.2 343.3 514.9





#65

tert-Butylbenzene

Concen: 0.164 ppbv m

RT: 16.77 min Scan# 4349

Delta R.T. 0.02 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

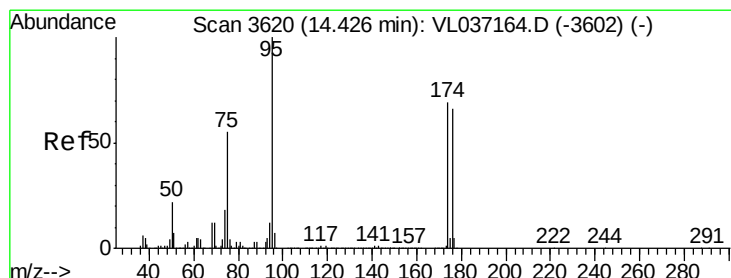
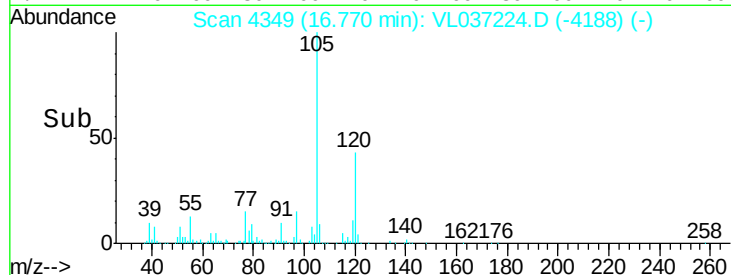
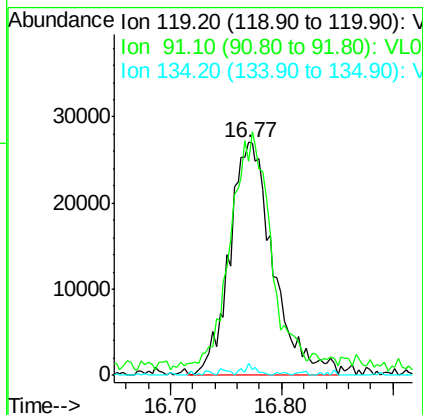
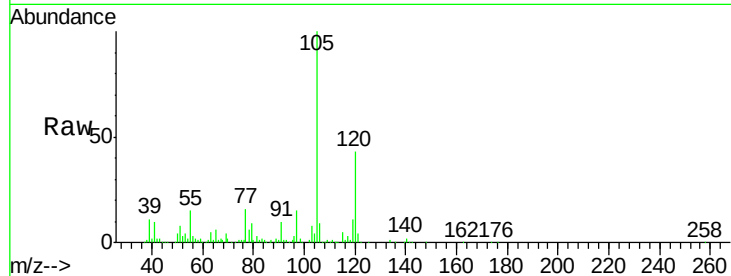
ClientSampleId :

IAQ-01DUP

Tot Ion:	119	Resp:	73651
Ion Ratio	Lower	Upper	
119	100		
91	96.2	62.6	93.8#
134	2.4	16.2	24.4#

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.604 ppbv

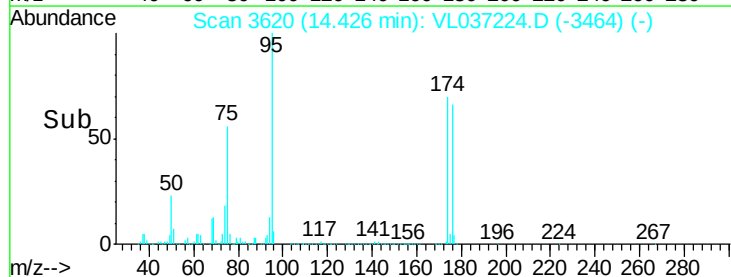
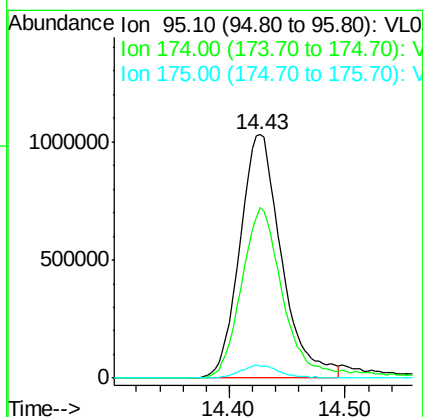
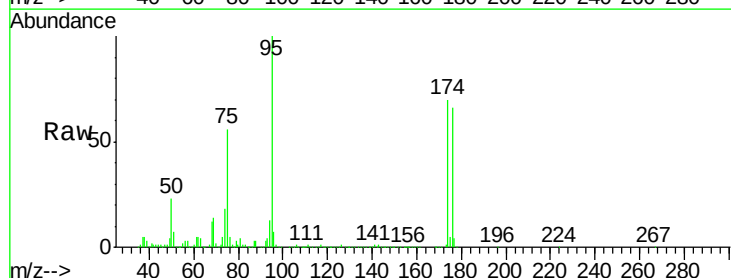
RT: 14.43 min Scan# 3620

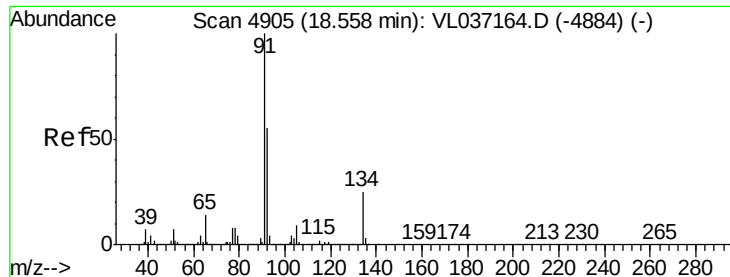
Delta R.T. 0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Tgt Ion:	95	Resp:	2574164
Ion Ratio	Lower	Upper	
95	100		
174	72.8	57.0	85.4
175	5.2	4.4	6.6





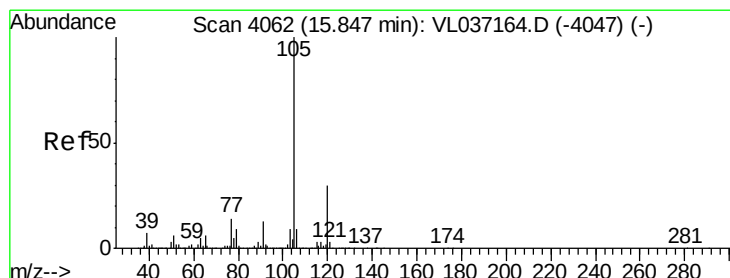
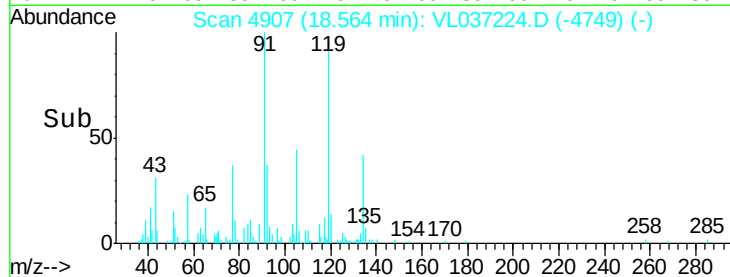
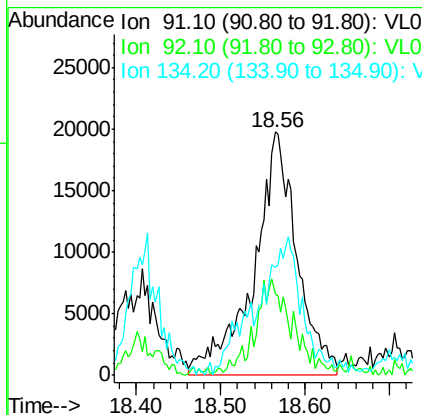
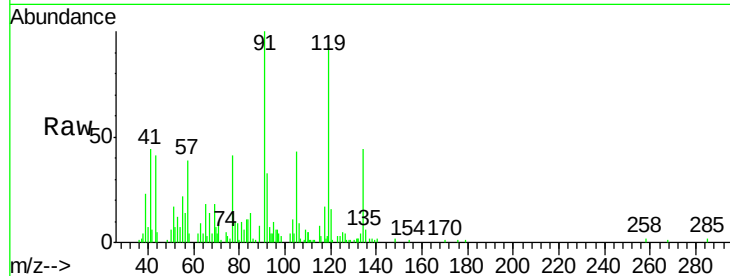
#70
n-Butylbenzene
Concen: 0.150 ppbv m
RT: 18.56 min Scan# 4907
Delta R.T. 0.01 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Instrument :
MSVOA_L
ClientSampled :
IAQ-01DUP

Tot Ion	Ratio	Lower	Upper
91	100		
92	34.8	44.0	66.0#
134	0.0	20.2	30.4#

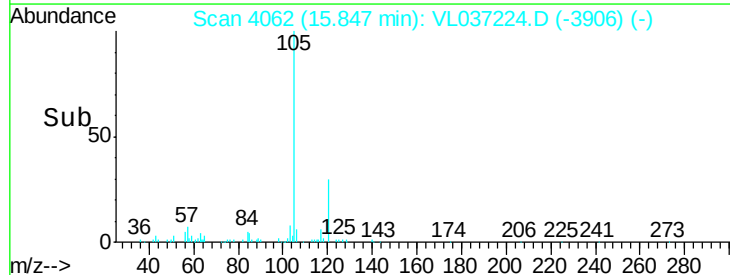
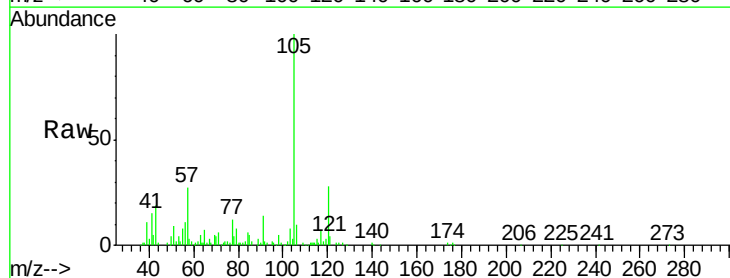
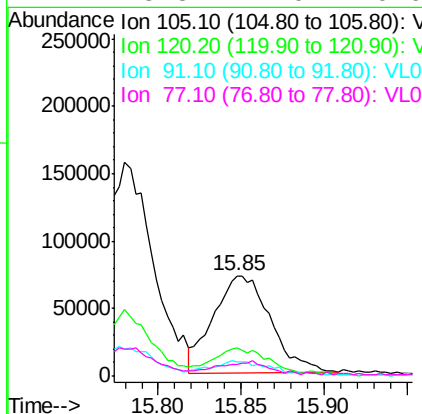
Manual Integrations
APPROVED

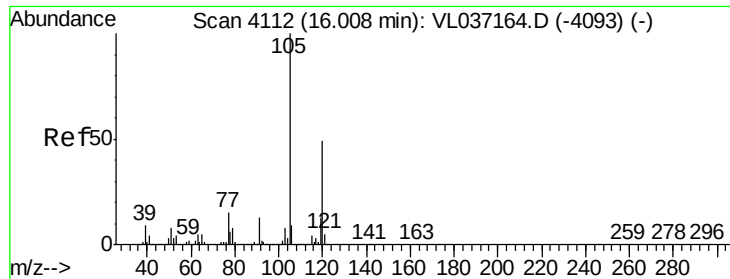
MMDadoda
6/24/2021 4:33:00 PM



#72
4-Ethyltoluene
Concen: 0.430 ppbv
RT: 15.85 min Scan# 4062
Delta R.T. 0.00 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.0	24.7	37.1
91	14.2	10.2	15.4
77	15.3	11.0	16.6





#73

1,3,5-Trimethylbenzene

Concen: 0.498 ppbv

RT: 16.00 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Instrument :

MSVOA_L

ClientSampleId :

IAQ-01DUP

Tot Ion:105 Resp: 194685

Ion Ratio Lower Upper

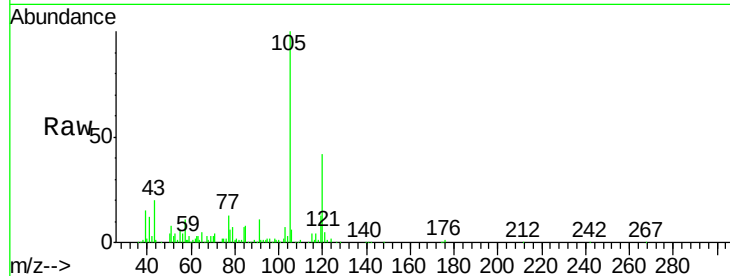
105 100

120 41.8 39.4 59.2

Manual Integrations
APPROVED

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6/24/2021 4:33:00 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.00

80000

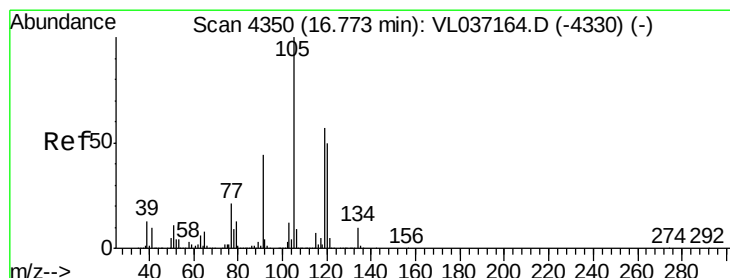
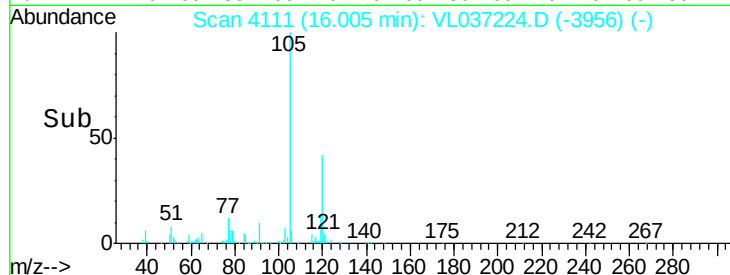
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.385 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. -0.00 min

Lab File: VL037224.D

Acq: 22 Jun 2021 19:51

Tgt Ion:105 Resp: 557738

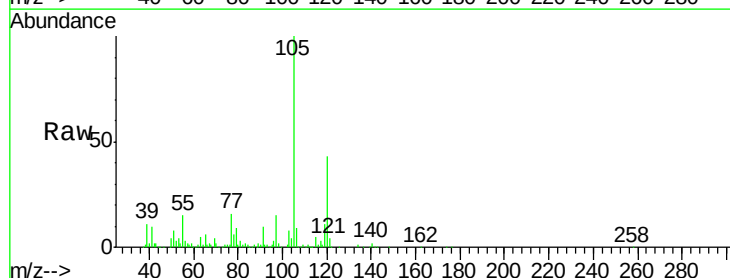
Ion Ratio Lower Upper

105 100

120 43.4 39.8 59.8

91 9.8 37.0 55.4#

77 15.3 17.0 25.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

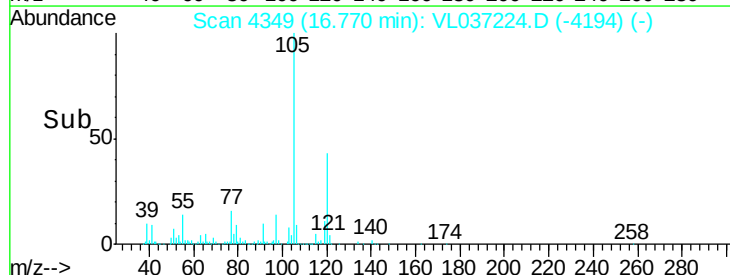
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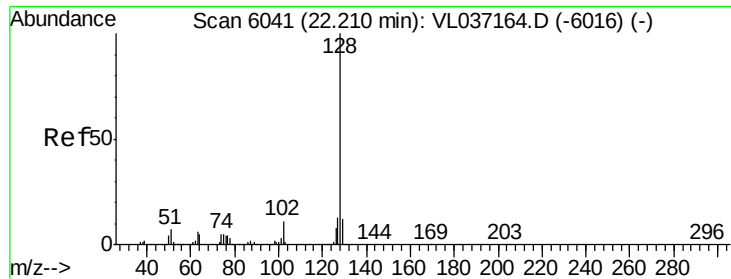
200000

100000

0

Time-->





#79
Naphthalene
Concen: 0.176 ppbv m
RT: 22.22 min Scan# 6044
Delta R.T. 0.01 min
Lab File: VL037224.D
Acq: 22 Jun 2021 19:51

Instrument :
MSVOA_L
ClientSampleId :
IAQ-01DUP

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.7	16.1
129	15.4	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
6/24/2021 4:33:00 PM

