

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035464.D
 Acq On : 19 Aug 2020 11:05
 Operator : SY/AP
 Sample : L3730-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

MMDadoda
 8/20/2020 11:07:51 AM

Quant Time: Aug 20 03:22:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 1
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1061012	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4949953	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4956267	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3581099	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	56330	0.286	ppbv	95
3) Chlorodifluoromethane	2.99	51	133126m	1.001	ppbv	
4) Chloromethane	3.14	50	35930	0.518	ppbv #	86
9) Propene	3.02	41	44396	0.830	ppbv #	73
10) Heptane	8.14	43	18743	0.134	ppbv #	78
11) Trichlorofluoromethane	3.95	101	73885	0.239	ppbv	99
13) Ethanol	3.61	45	3160095	161.304	ppbv	98
15) Acetone	3.85	43	1105890	9.056	ppbv #	79
17) tert-Butyl alcohol	4.32	59	27861	0.177	ppbv	99
19) Isopropyl Alcohol	3.98	45	4411005	52.405	ppbv #	99
20) Methylene Chloride	4.35	84	749902	7.611	ppbv #	64
26) Hexane	5.69	57	573244	4.275	ppbv #	30
29) Chloroform	5.76	83	32113	0.119	ppbv	91
30) Cyclohexane	7.14	84	50000	0.336	ppbv #	59
34) 2-Butanone	5.25	43	122399	0.740	ppbv #	70
35) Carbon Tetrachloride	7.02	117	17582m	0.067	ppbv	
36) Benzene	6.90	78	55675	0.153	ppbv #	90
41) Tetrahydrofuran	6.07	42	12305m	0.135	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	129020	0.272	ppbv	92
50) 4-Methyl-2-Pentanone	8.76	43	169545	0.715	ppbv #	83
52) Tetrachloroethene	11.24	164	14403	0.065	ppbv #	82
53) Toluene	9.83	91	462115	0.988	ppbv	98
58) Ethyl Benzene	12.73	91	60815	0.102	ppbv	93
59) m/p-Xylene	12.99	91	155132m	0.307	ppbv	
60) o-Xylene	13.71	91	58563	0.119	ppbv	90
61) Styrene	13.55	104	86879	0.219	ppbv #	88
74) 1,2,4-Trimethylbenzene	16.79	105	127450	0.195	ppbv #	70
76) 1,4-Dichlorobenzene	17.17	146	56018	0.113	ppbv	97
79) Naphthalene	22.24	128	144587	0.157	ppbv	95

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

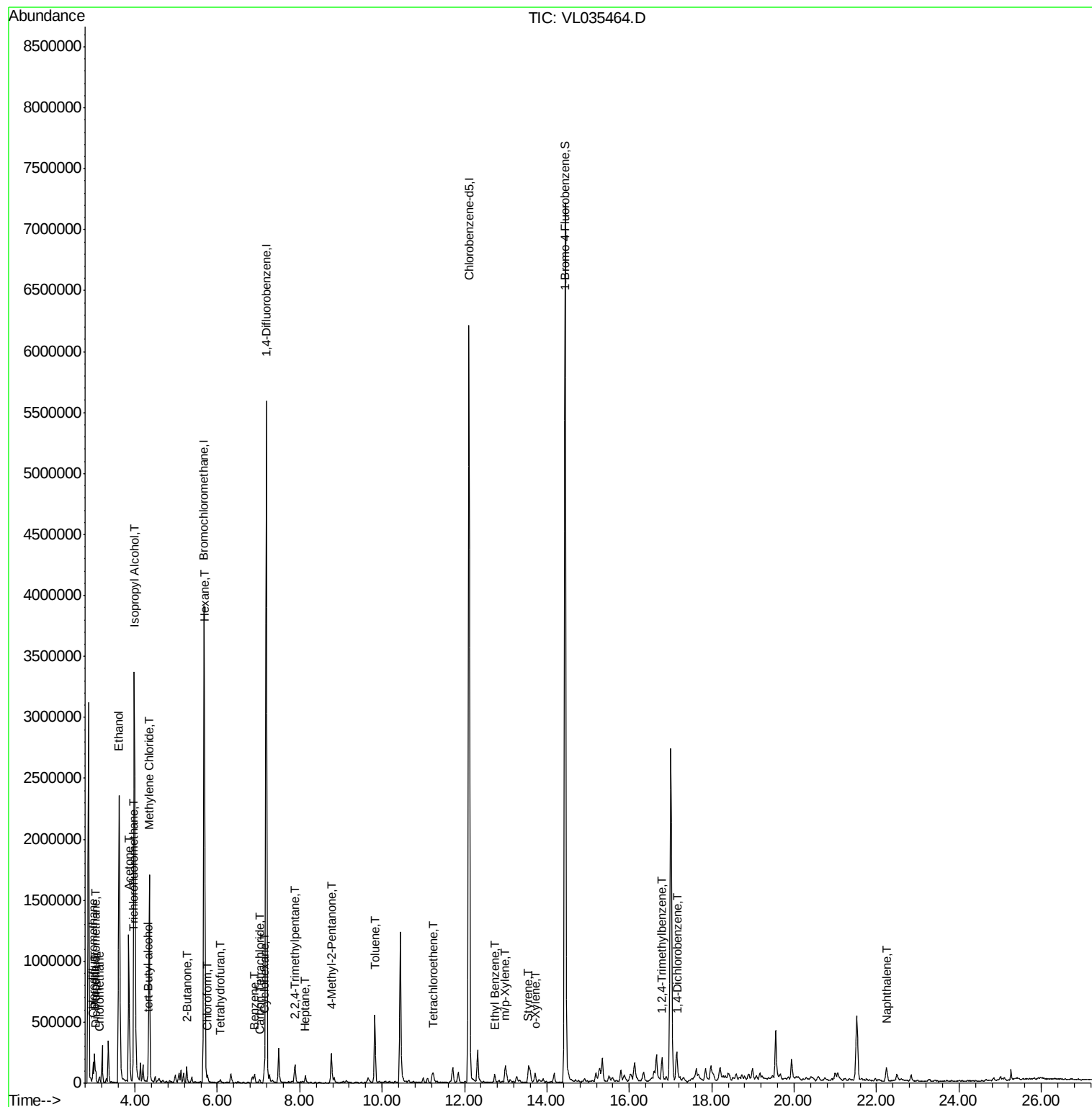
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081820\
Data File : VL035464.D
Acq On : 19 Aug 2020 11:05
Operator : SY/AP
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Quant Time: Aug 20 03:22:12 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL035464.D

Acq: 19 Aug 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 49 Resp: 1061012

Ion Ratio Lower Upper

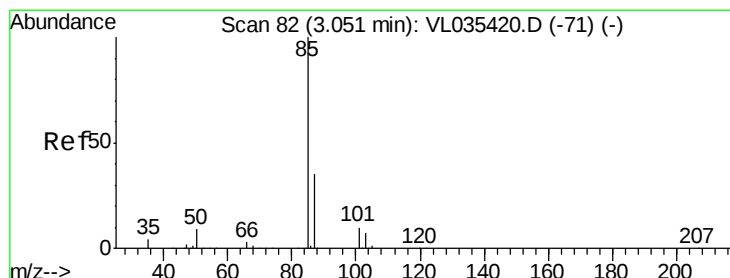
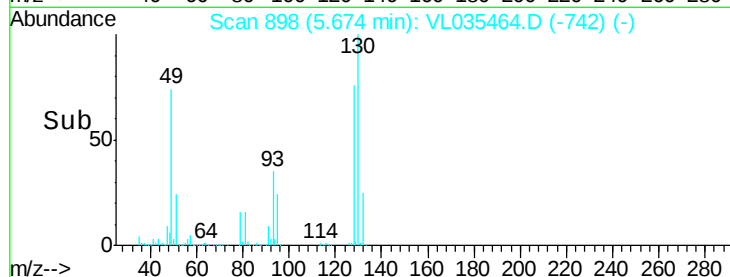
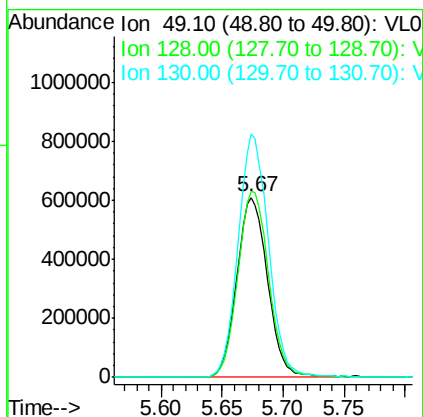
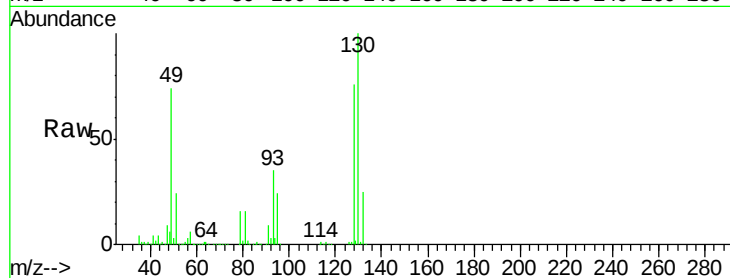
49 100

128 104.3 20.9 62.7#

130 134.6 26.7 80.1#

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#2

Dichlorodifluoromethane

Concen: 0.286 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL035464.D

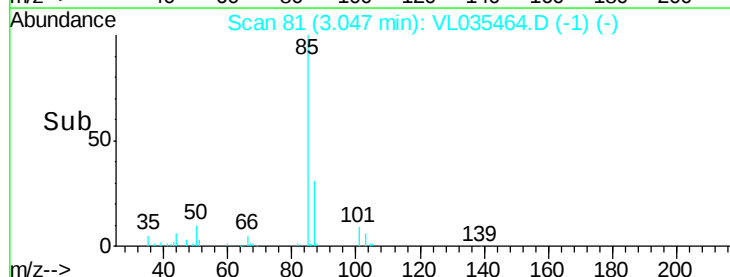
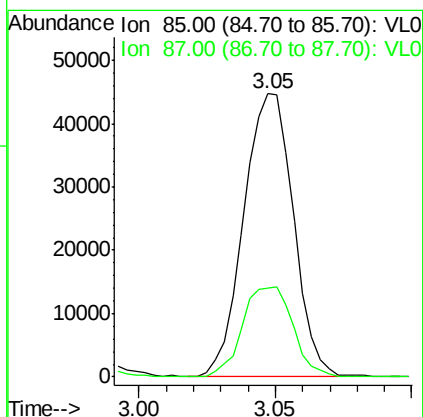
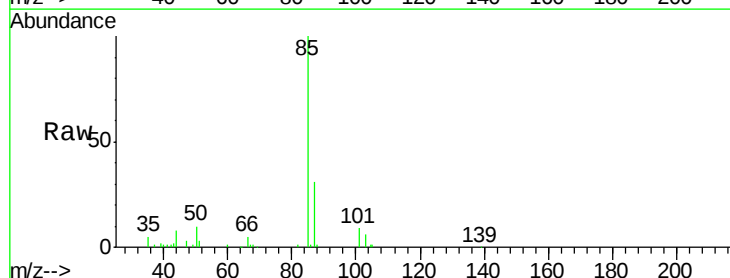
Acq: 19 Aug 2020 11:05

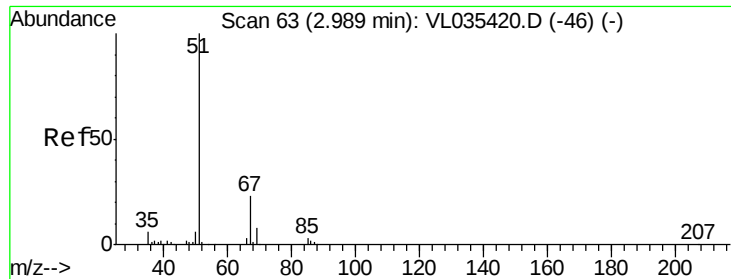
Tgt Ion: 85 Resp: 56330

Ion Ratio Lower Upper

85 100

87 31.3 27.1 40.7





#3

Chlorodifluoromethane

Concen: 1.001 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035464.D

Acq: 19 Aug 2020 11:05

Instrument :

MSVOA_L

ClientSampled :

IA-1

Tot Ion: 51 Resp: 133126

Ion Ratio Lower Upper

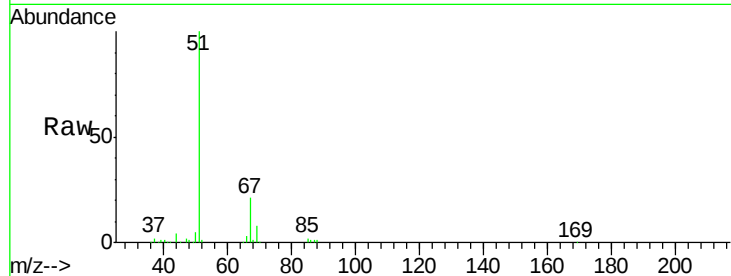
51 100

67 21.8 15.0 22.6

Manual Integrations
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

120000

100000

80000

60000

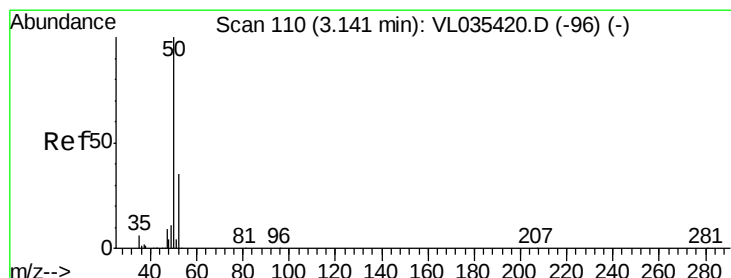
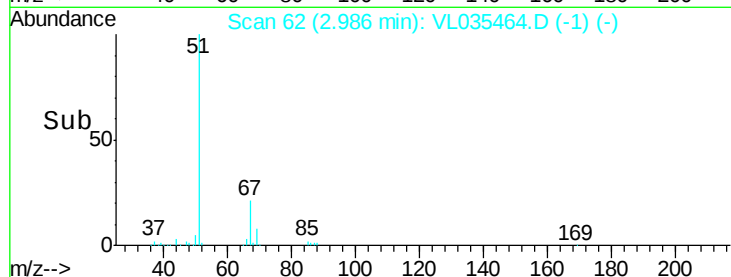
40000

20000

0

2.96 2.98 3.00 3.02

Time-->



#4

Chloromethane

Concen: 0.518 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL035464.D

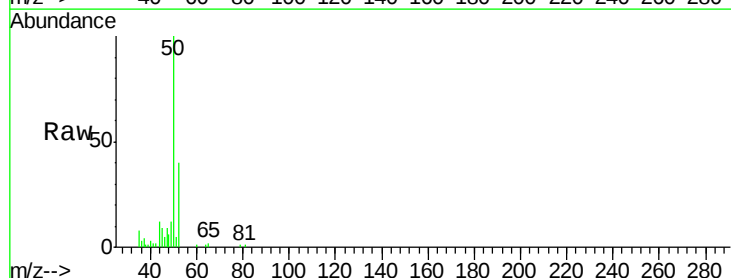
Acq: 19 Aug 2020 11:05

Tgt Ion: 50 Resp: 35930

Ion Ratio Lower Upper

50 100

52 40.3 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

25000

20000

15000

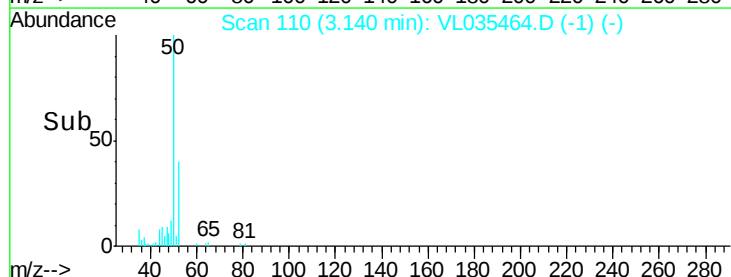
10000

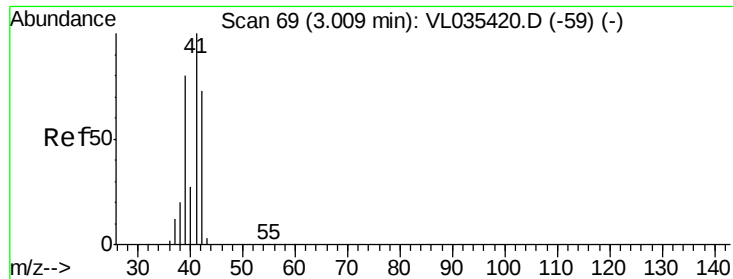
5000

0

3.10 3.15

Time-->





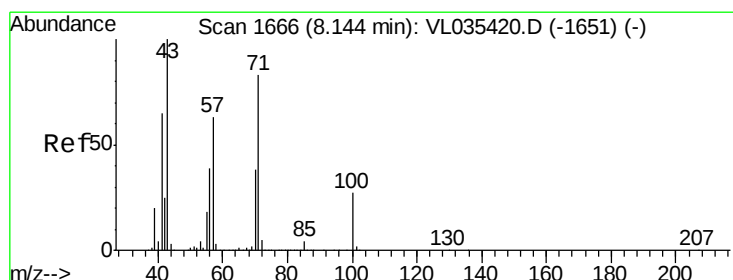
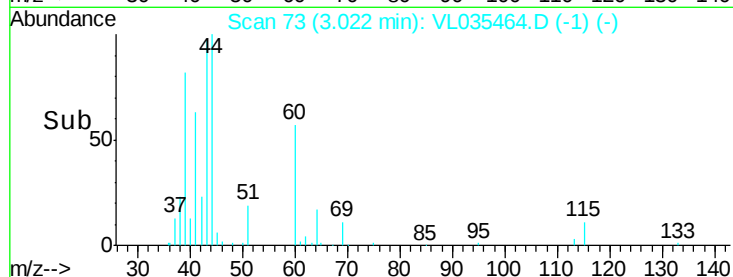
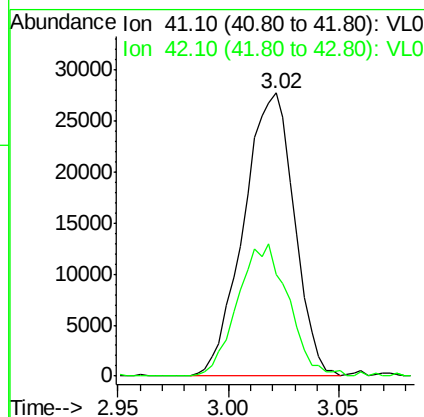
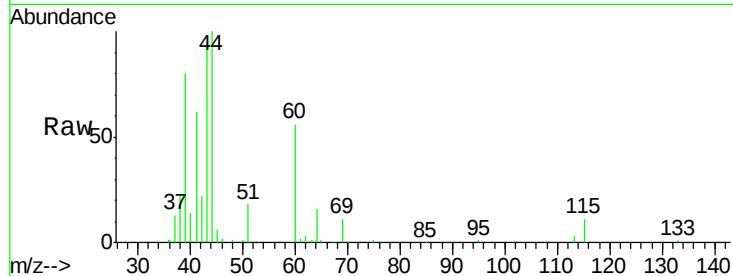
#9
 Propene
 Concen: 0.830 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. 0.02 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tot Ion: 41 Resp: 44396
 Ion Ratio Lower Upper
 41 100
 42 47.2 55.5 83.3#

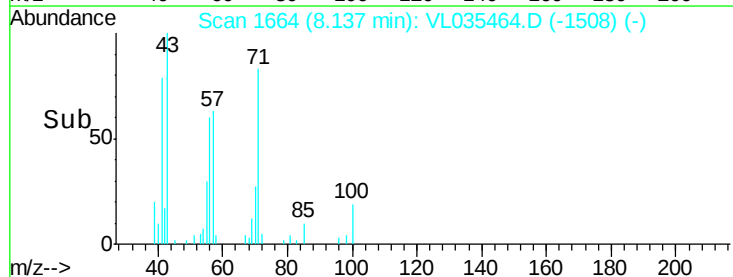
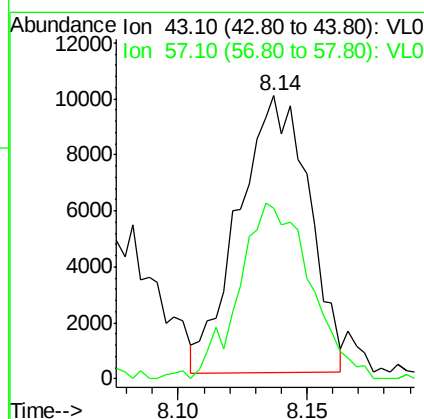
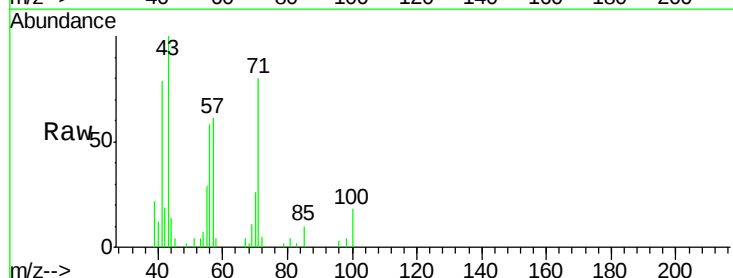
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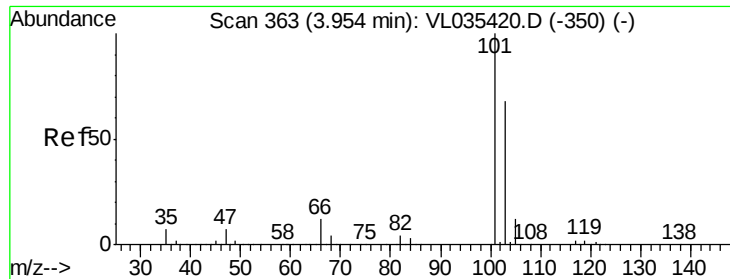
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#10
 Heptane
 Concen: 0.134 ppbv
 RT: 8.14 min Scan# 1664
 Delta R.T. 0.00 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Tgt Ion: 43 Resp: 18743
 Ion Ratio Lower Upper
 43 100
 57 65.0 39.8 59.6#





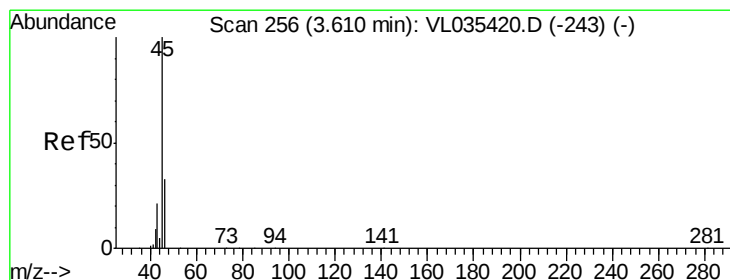
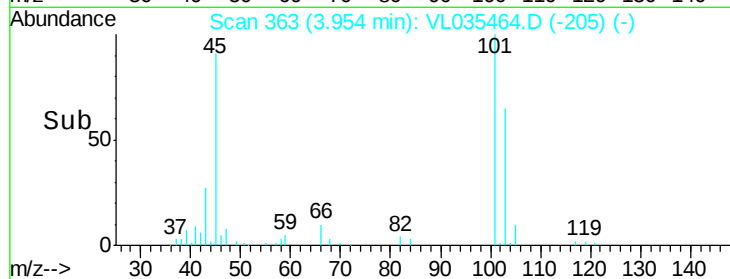
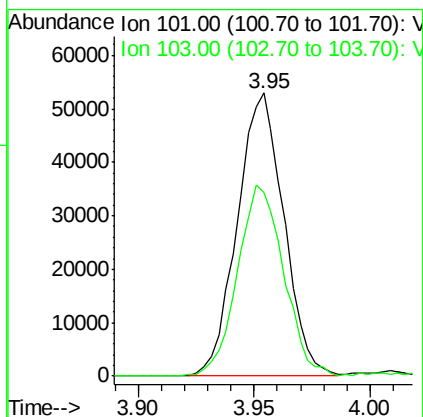
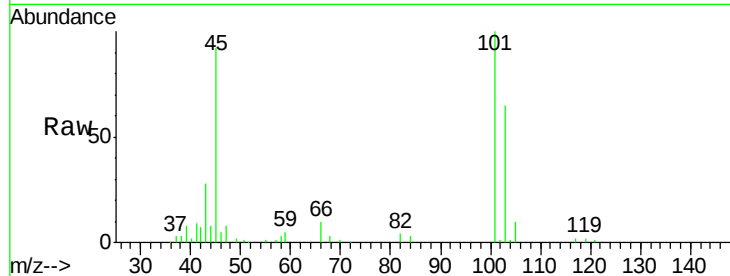
#11
 Trichlorofluoromethane
 Concen: 0.239 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.01 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		73885		
103	64.6	52.6	78.8		

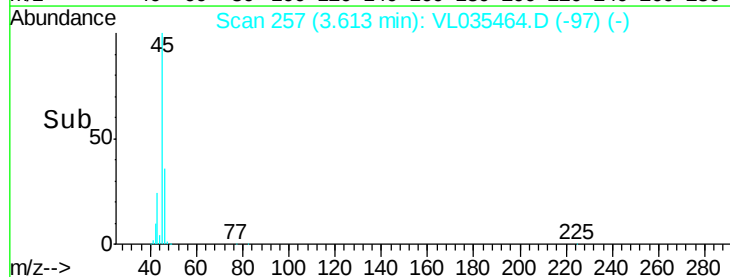
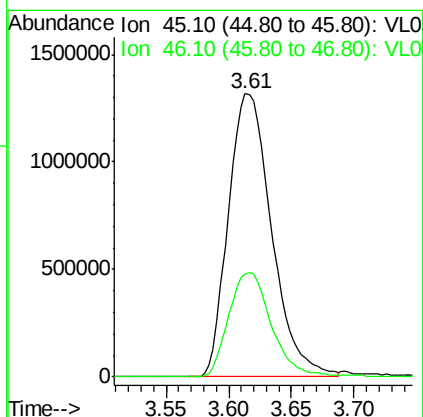
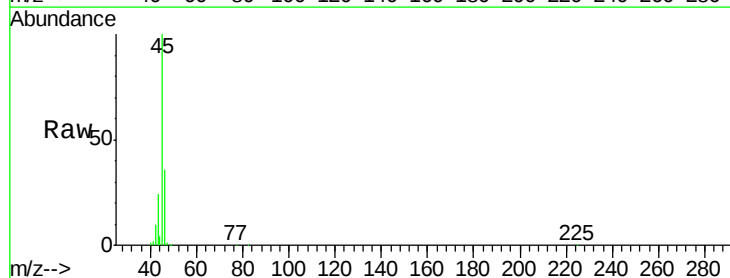
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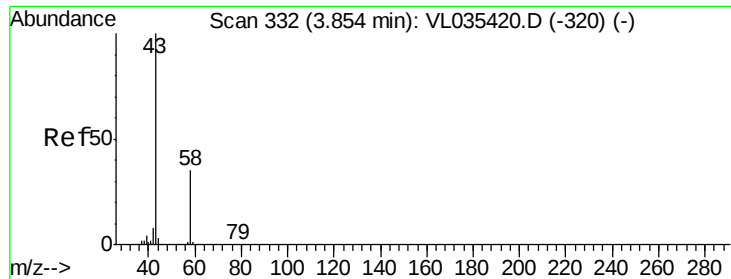
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#13
 Ethanol
 Concen: 161.304 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		3160095		
46	36.7	14.2	56.6		





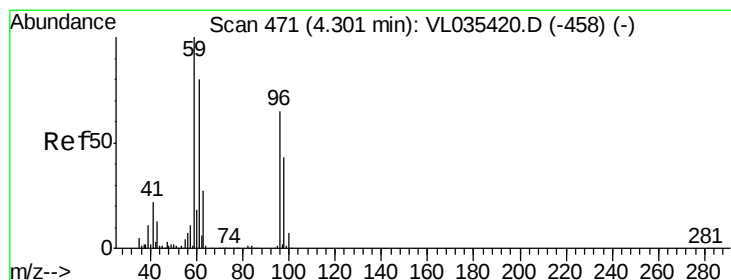
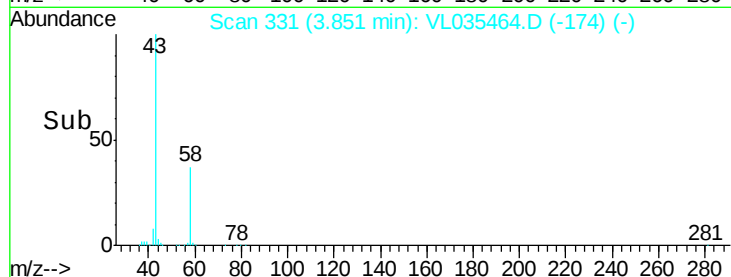
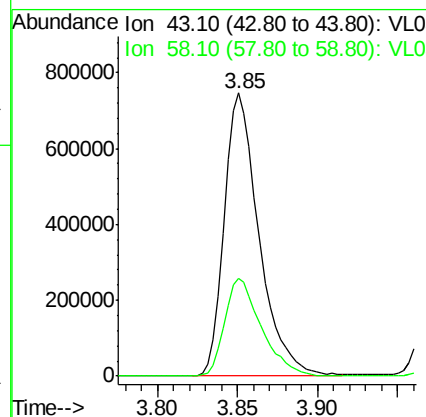
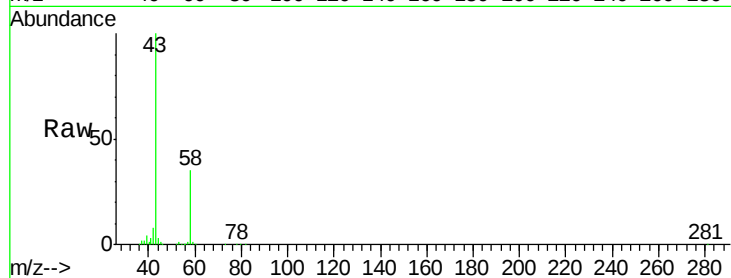
#15
Acetone
Concen: 9.056 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion: 43 Resp: 1105890
Ion Ratio Lower Upper
43 100
58 36.8 21.0 31.6#

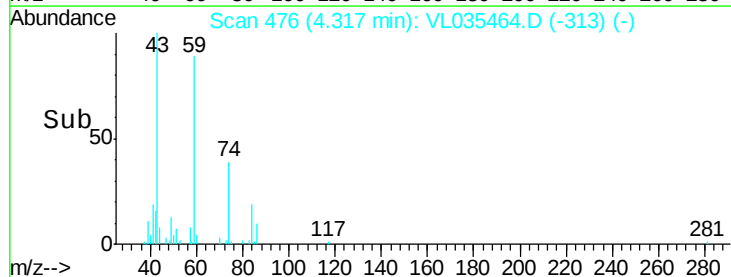
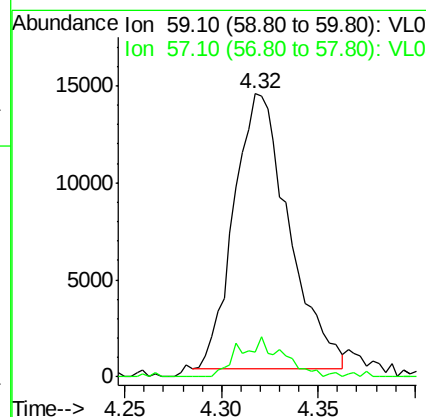
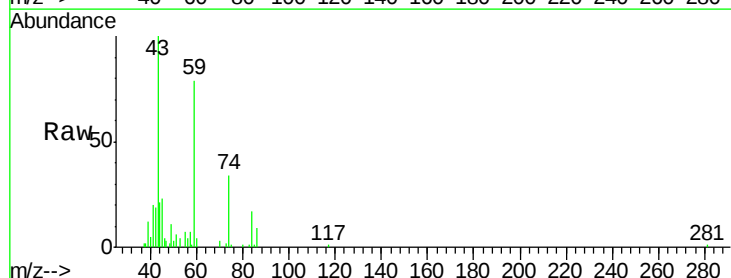
Manual Integrations
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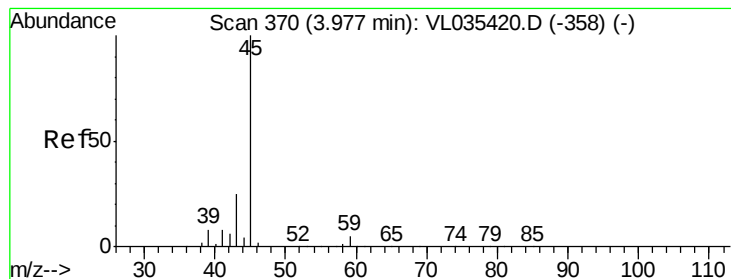
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#17
tert-Butyl alcohol
Concen: 0.177 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.02 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Tgt Ion: 59 Resp: 27861
Ion Ratio Lower Upper
59 100
57 11.5 8.9 13.3





#19

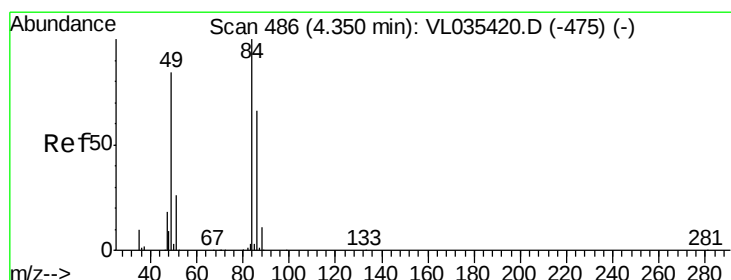
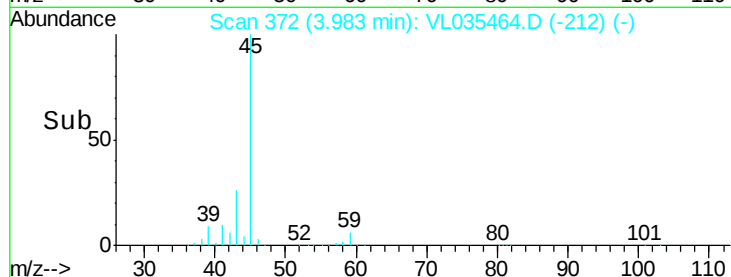
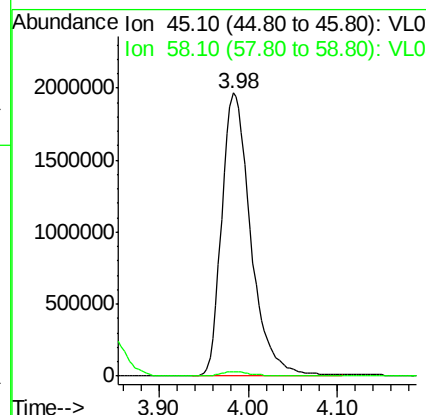
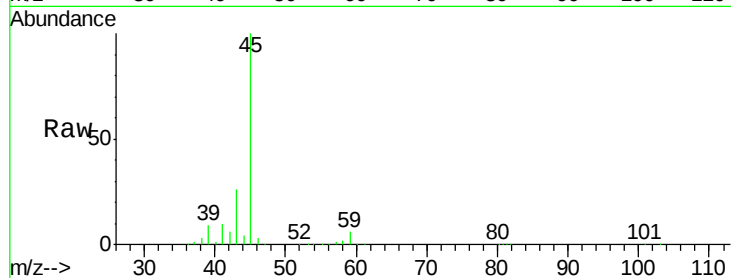
Isopropyl Alcohol
 Concen: 52.405 ppbv
 RT: 3.98 min Scan# 372
 Delta R.T. 0.01 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Tot Ion: 45 Resp: 4411005
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.0 1.6#

Manual Integrations
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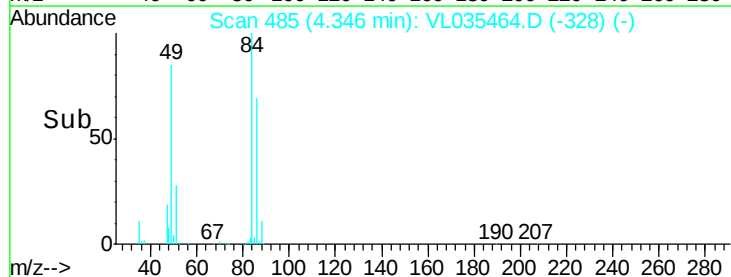
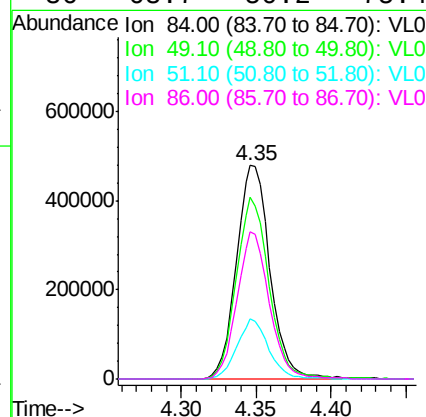
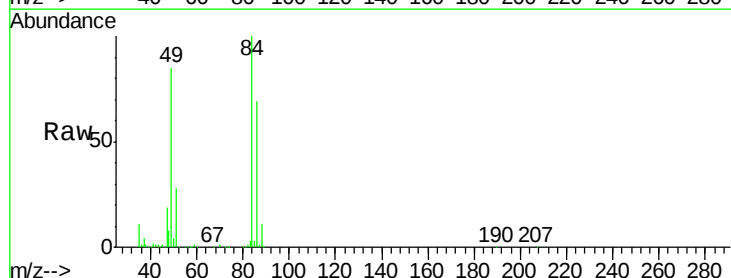
MMDadoda
 8/20/2020 11:07:51 AM

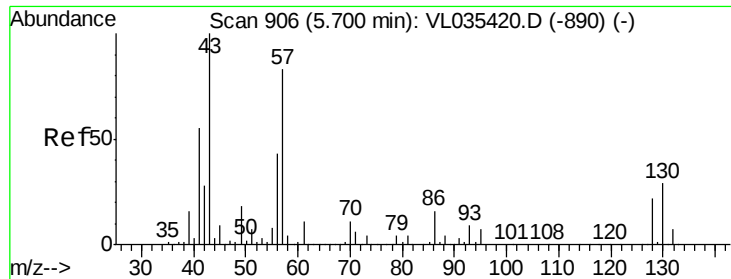


#20

Methylene Chloride
 Concen: 7.611 ppbv
 RT: 4.35 min Scan# 485
 Delta R.T. 0.00 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Tgt Ion: 84 Resp: 749902
 Ion Ratio Lower Upper
 84 100
 49 85.0 118.6 177.8#
 51 28.2 36.4 54.6#
 86 68.7 50.2 75.4





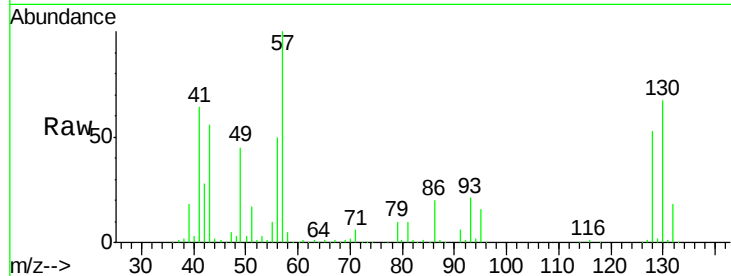
#26
Hexane
Concen: 4.275 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	66.0	75.5	113.3#
43	59.0	181.7	272.5#
56	52.2	42.4	63.6

Manual Integrations
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MMDadoda
8/20/2020 11:07:51 AM



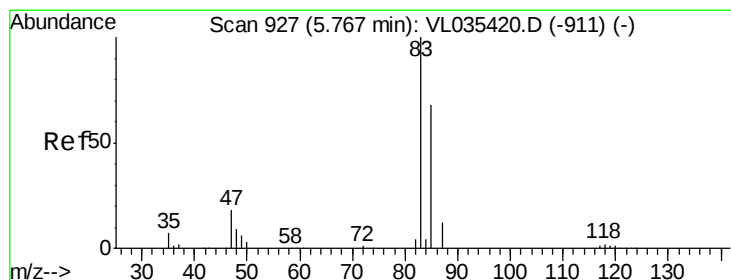
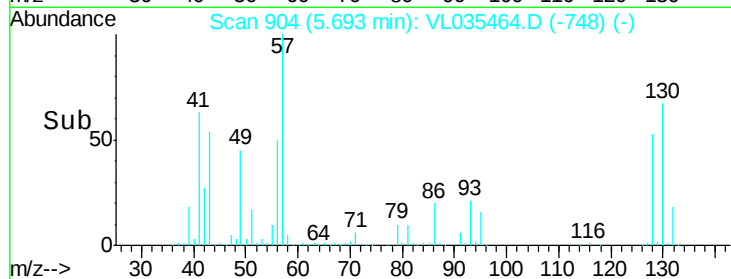
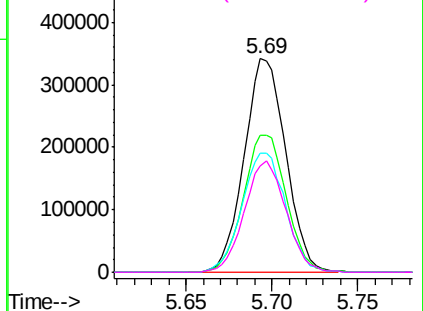
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

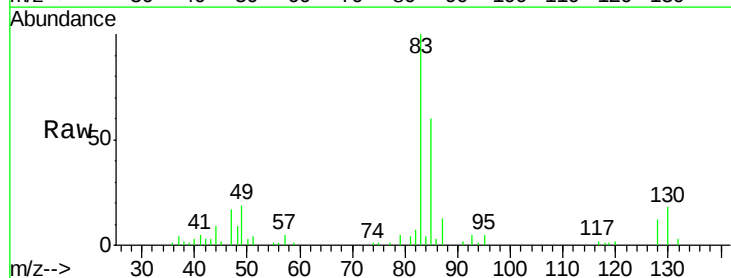
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.119 ppbv
RT: 5.76 min Scan# 924
Delta R.T. -0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

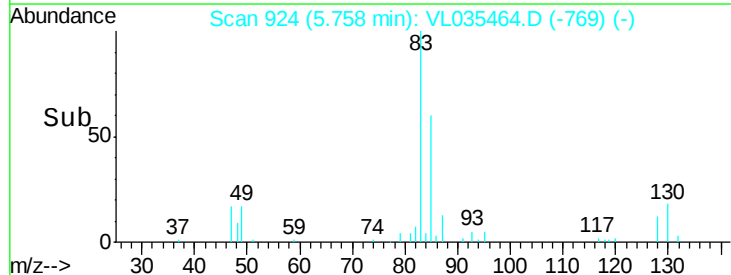
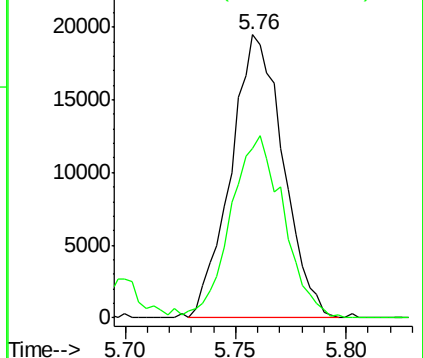
Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.7	52.7	79.1

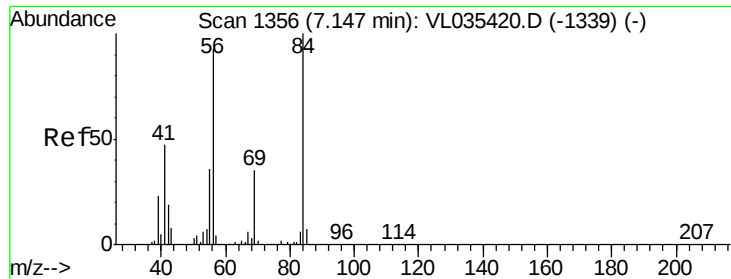


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





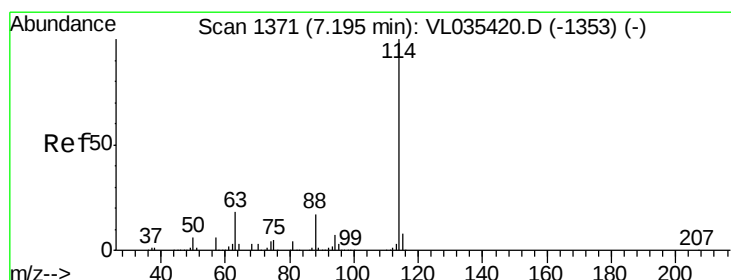
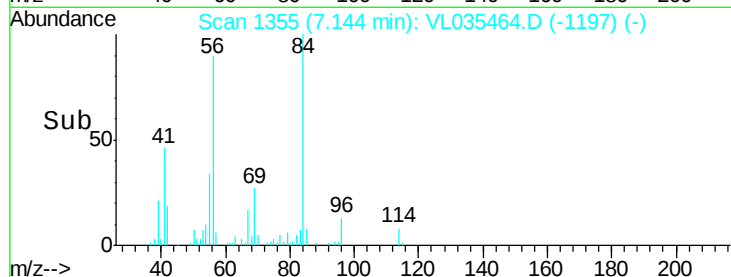
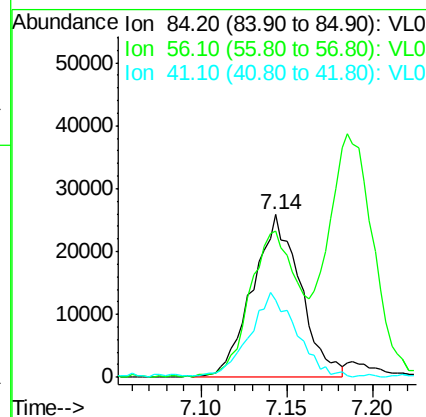
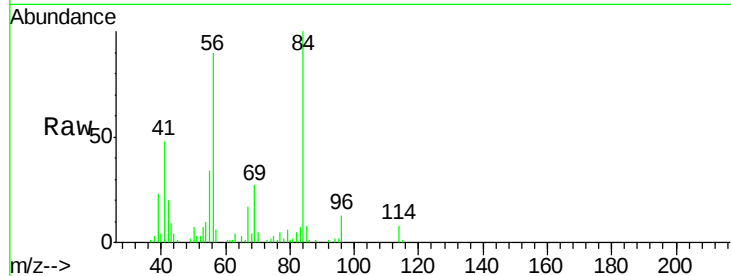
#30
Cvclohexane
Concen: 0.336 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.01 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	94.9	114.9	172.3#
41	49.3	72.3	108.5#

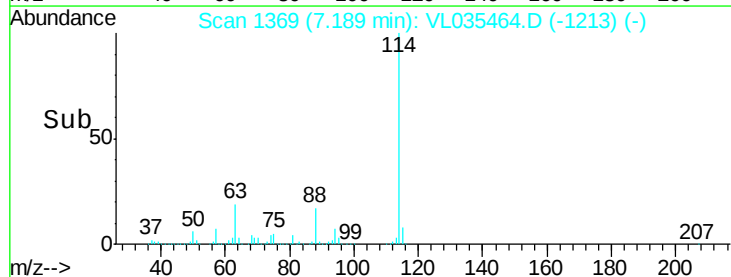
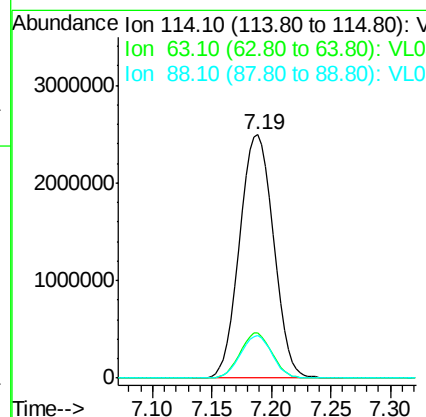
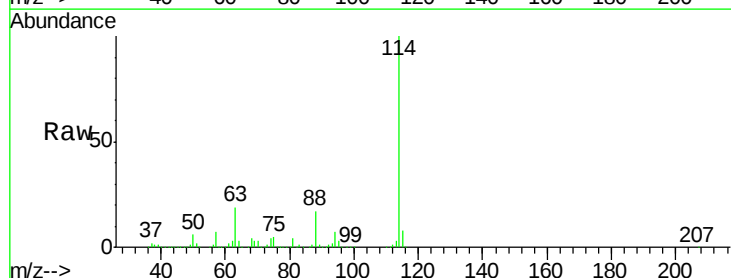
Manual Integrations
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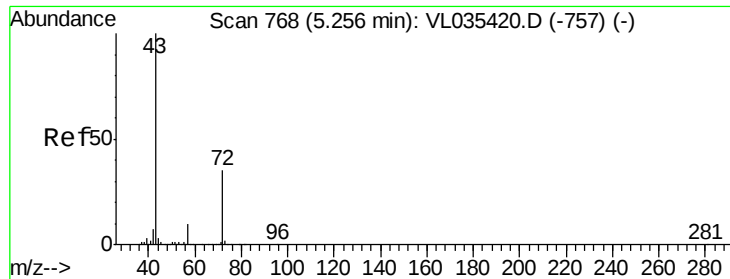
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.4	23.1	34.7#
88	16.3	15.9	23.9





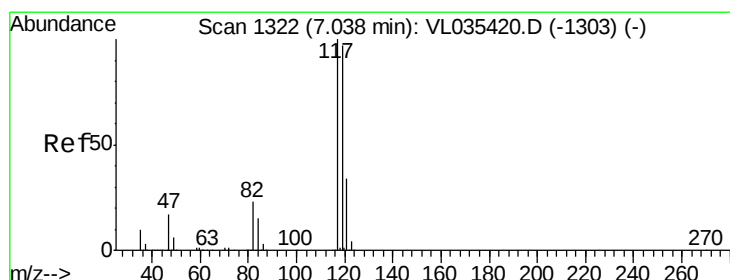
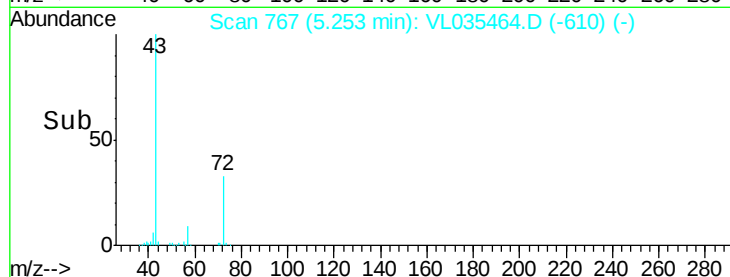
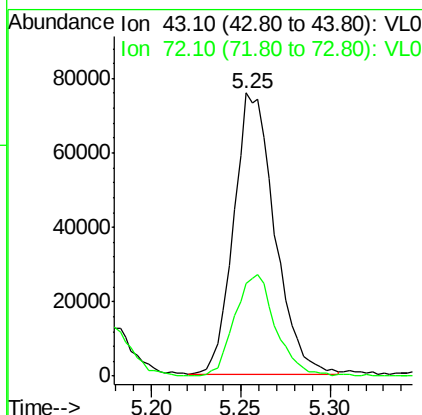
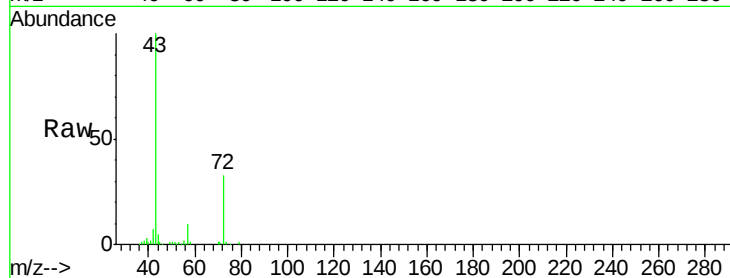
#34
2-Butanone
Concen: 0.740 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	43	Resp	122399
Ion Ratio	Lower	Upper	
43	100		
72	36.1	17.6	26.4#

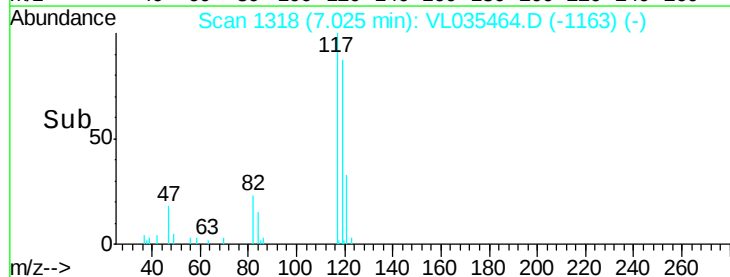
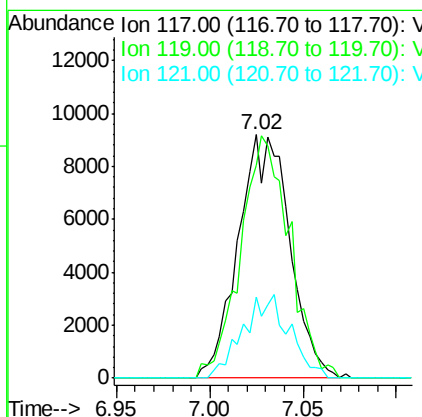
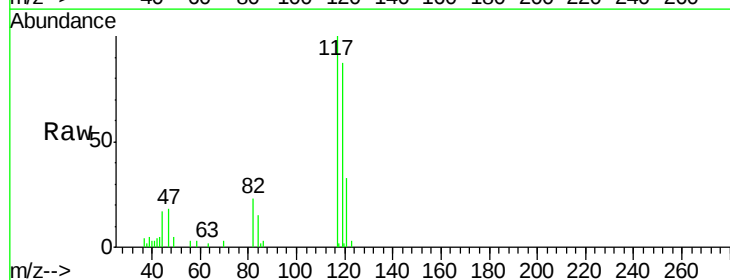
Manual Integrations
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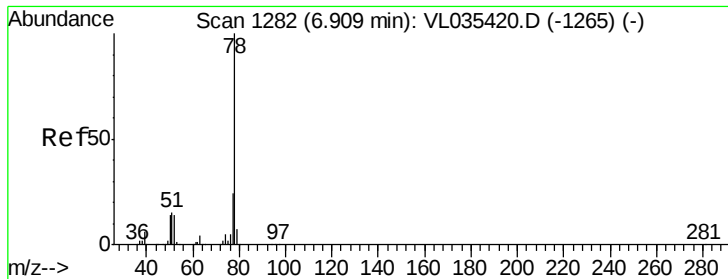
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8/20/2020 11:07:51 AM



#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Tgt Ion	117	Resp	17582
Ion Ratio	Lower	Upper	
117	100		
119	87.4	76.1	114.1
121	33.2	25.5	38.3





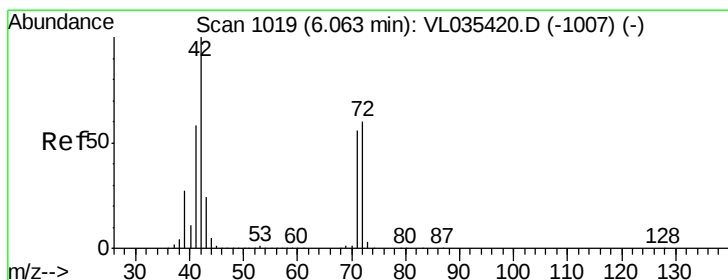
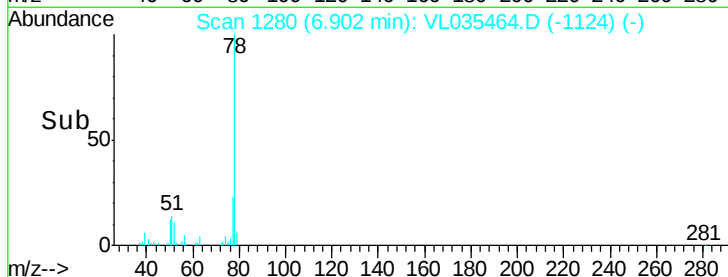
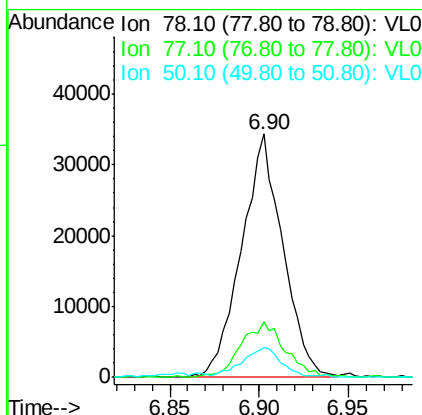
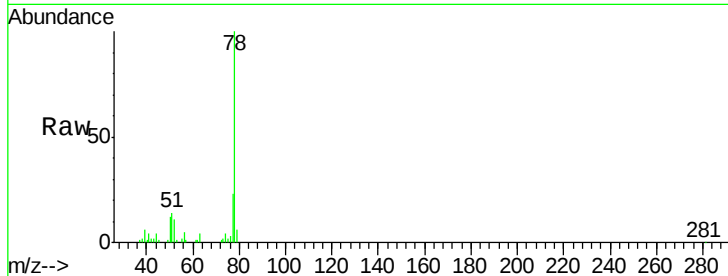
#36
Benzene
Concen: 0.153 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. 0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.6	29.4
50	12.3	16.3	24.5#

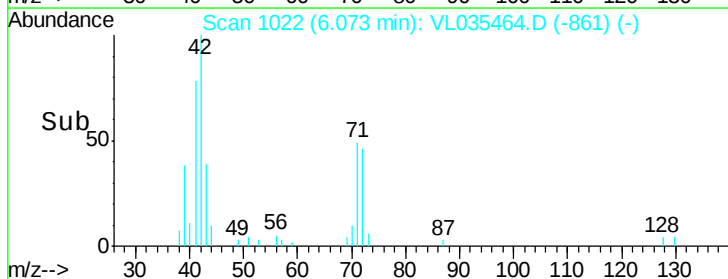
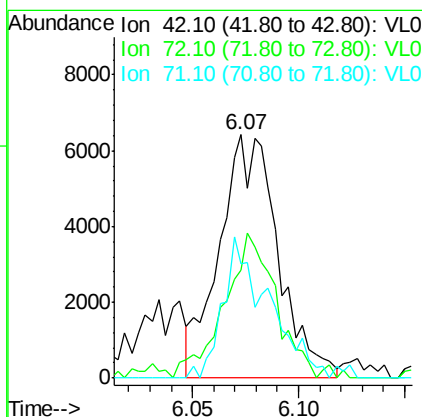
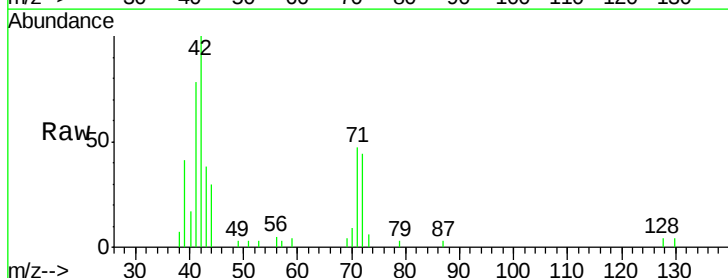
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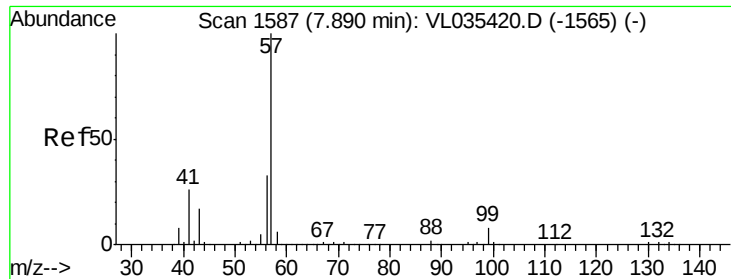
MMDadoda
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#41
Tetrahydrofuran
Concen: 0.135 ppbv m
RT: 6.07 min Scan# 1022
Delta R.T. 0.02 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.4	44.2#
71	46.7	28.9	43.3#





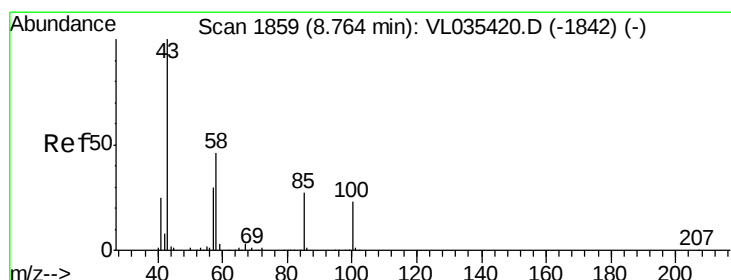
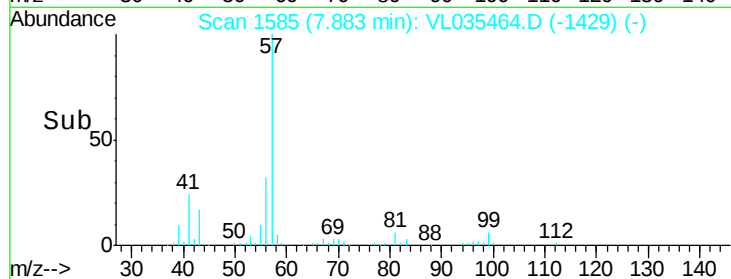
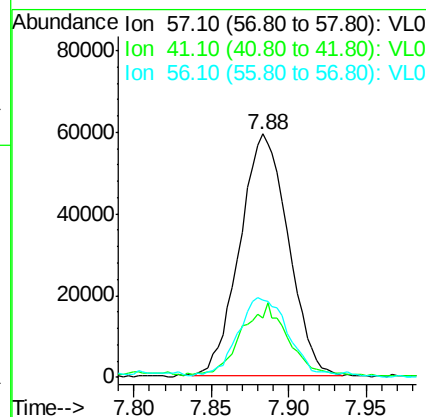
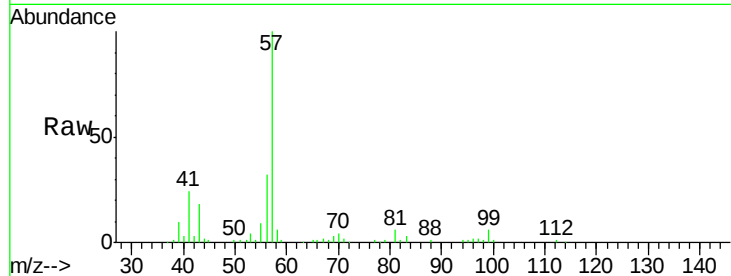
#44
 2,2,4-Trimethylpentane
 Concen: 0.272 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	29.0	27.2	40.8
56	35.6	25.4	38.0

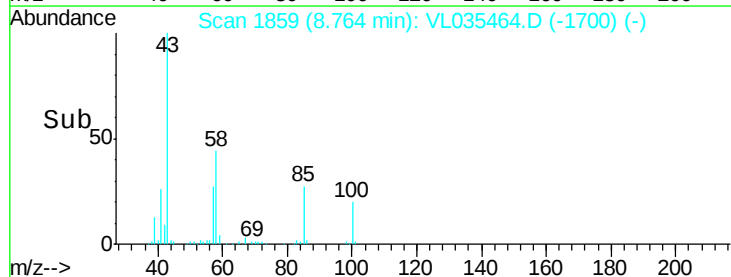
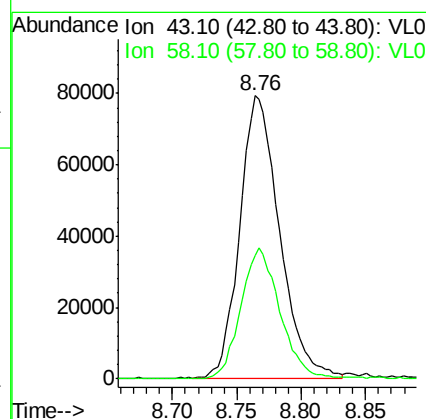
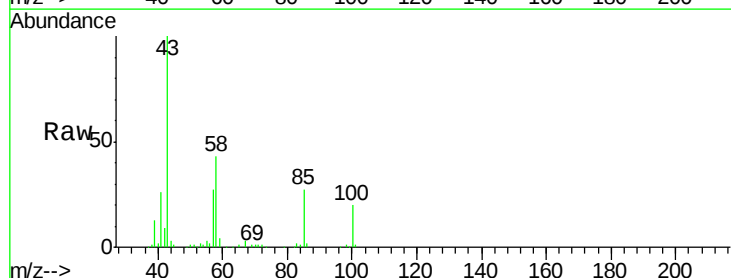
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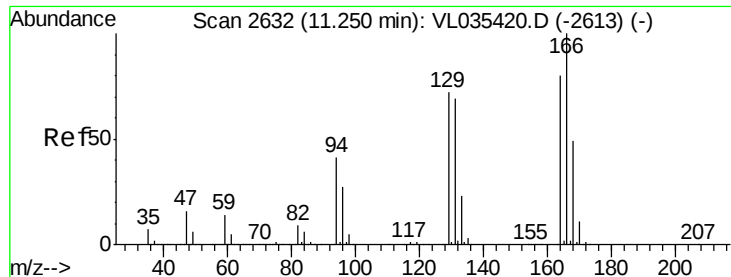
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#50
 4-Methyl-2-Pentanone
 Concen: 0.715 ppbv
 RT: 8.76 min Scan# 1859
 Delta R.T. 0.01 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	45.8	28.7	43.1#





#52

Tetrachloroethene

Concen: 0.065 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. 0.00 min

Lab File: VL035464.D

Acq: 19 Aug 2020 11:05

Instrument :

MSVOA_L

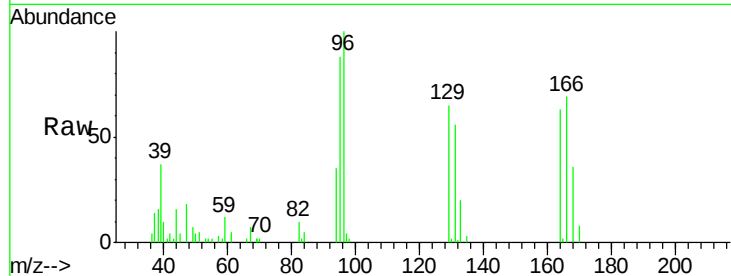
ClientSampleId :

IA-1

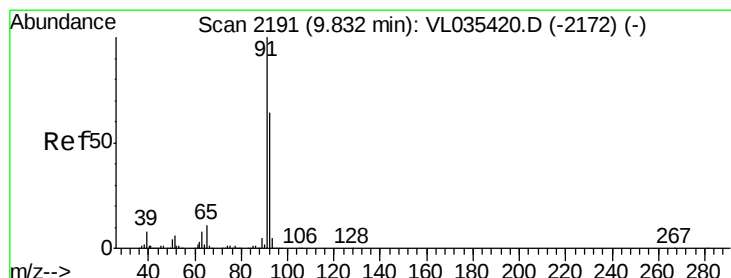
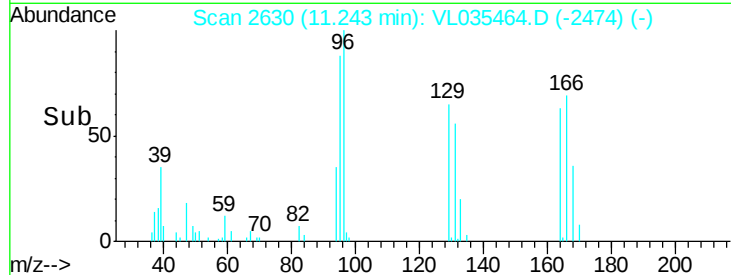
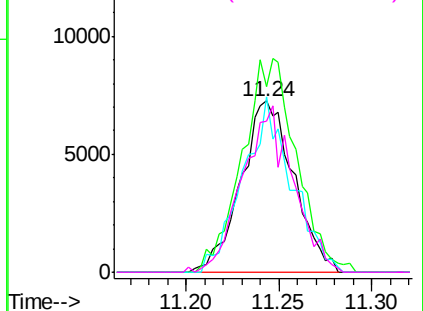
Tot Ion:	164	Resp:	14403
Ion	Ratio	Lower	Upper
164	100		
166	108.6	103.4	155.0
129	102.5	90.2	135.4
131	86.4	91.7	137.5#

Manual Integrations
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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: 0.988 ppbv

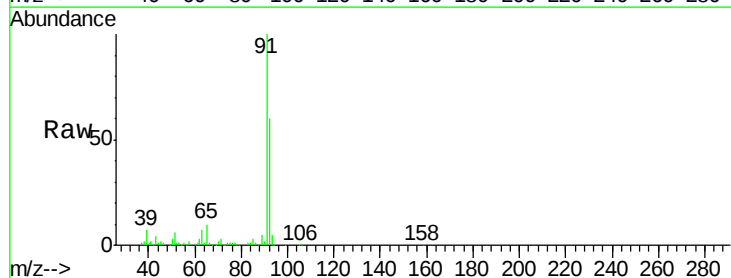
RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

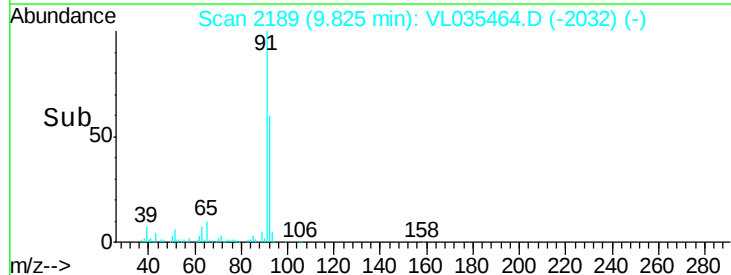
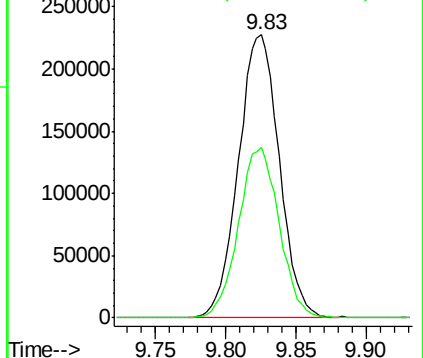
Lab File: VL035464.D

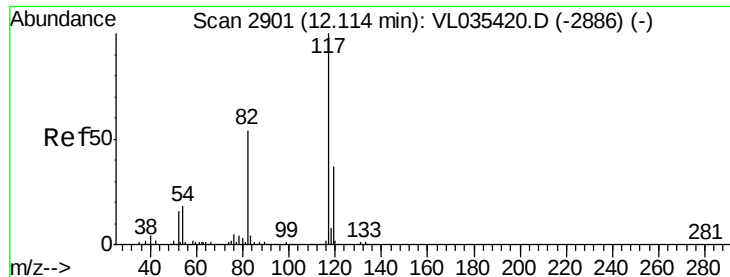
Acq: 19 Aug 2020 11:05

Tgt Ion:	91	Resp:	462115
Ion	Ratio	Lower	Upper
91	100		
92	60.0	49.1	73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





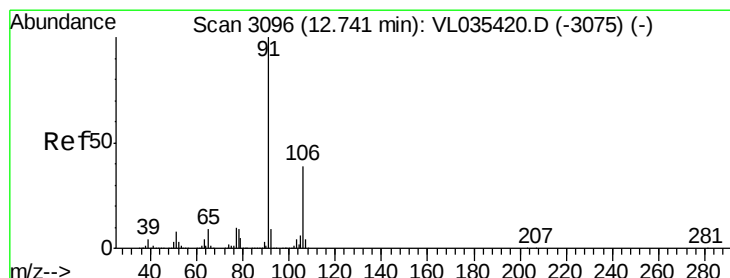
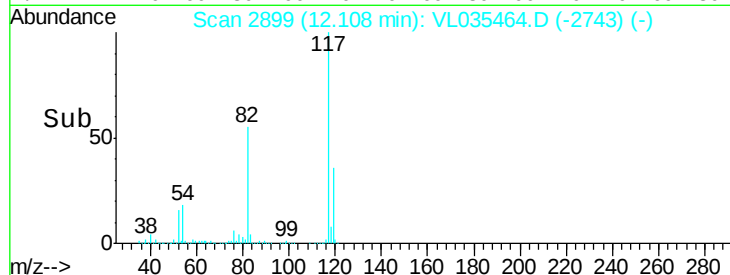
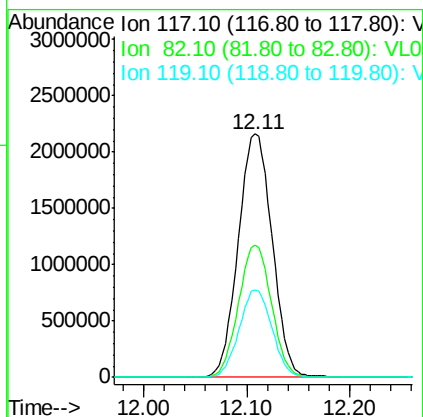
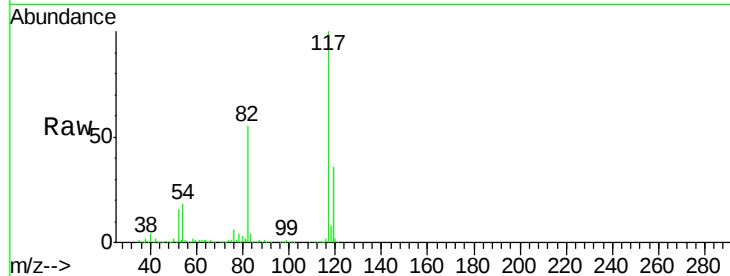
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. 0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion:117 Resp: 4956267
Ion Ratio Lower Upper
117 100
82 53.2 57.4 86.0#
119 34.9 28.4 42.6

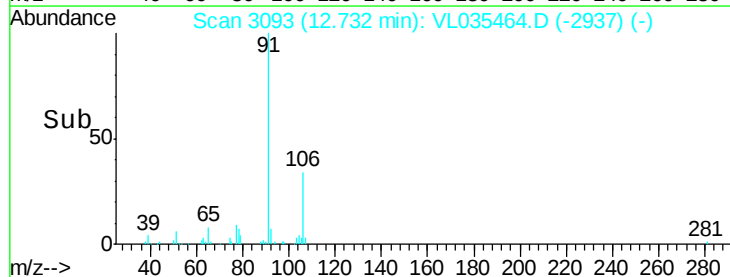
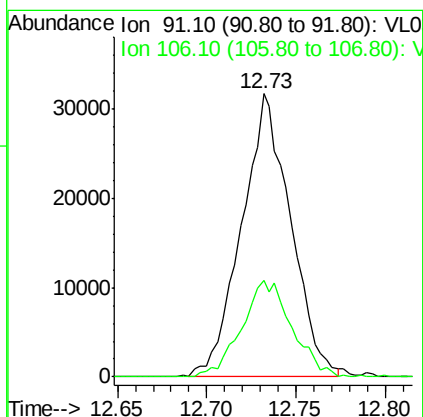
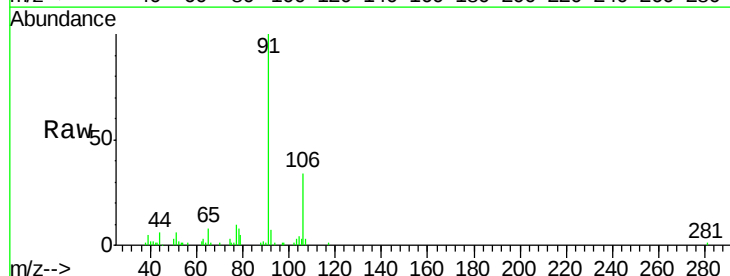
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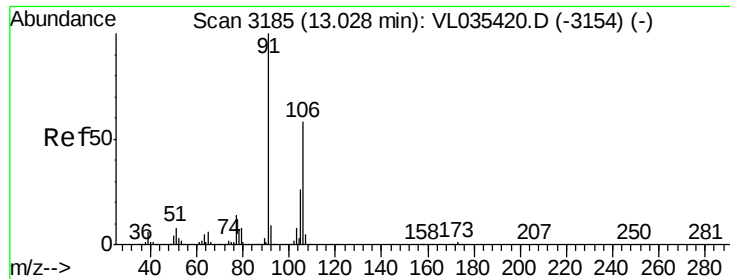
MMDadoda
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#58
Ethyl Benzene
Concen: 0.102 ppbv
RT: 12.73 min Scan# 3093
Delta R.T. 0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Tgt Ion: 91 Resp: 60815
Ion Ratio Lower Upper
91 100
106 34.1 24.1 36.1





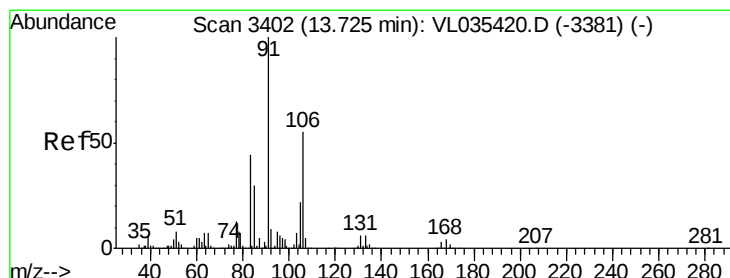
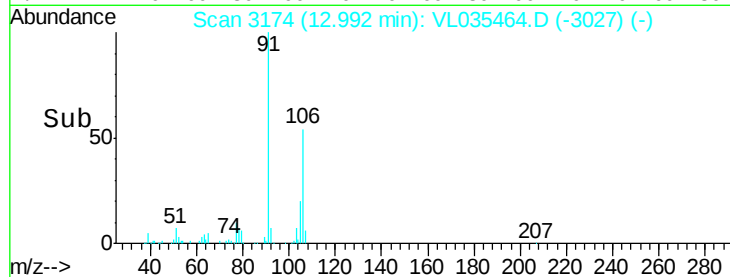
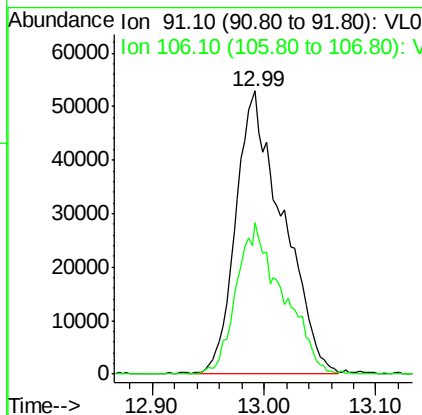
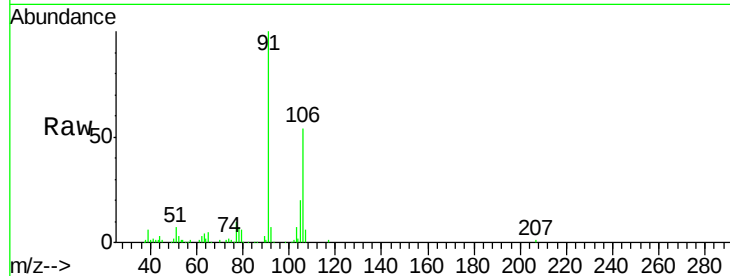
#59
m/p-Xylene
Concen: 0.307 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion: 91 Resp: 155132
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#

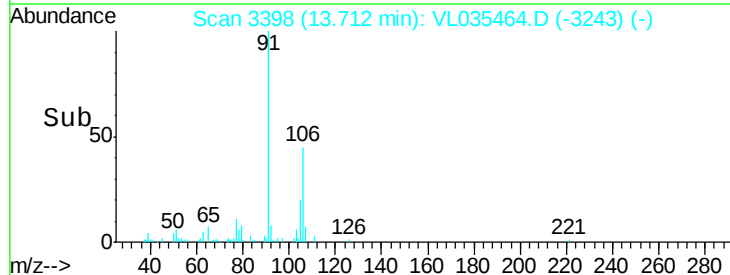
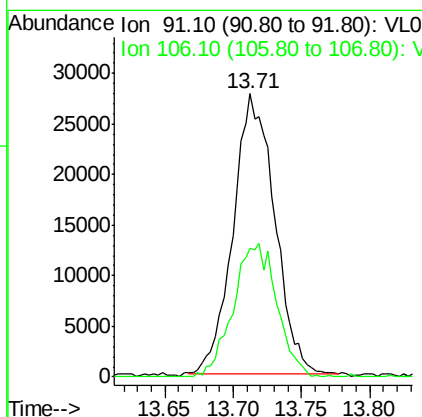
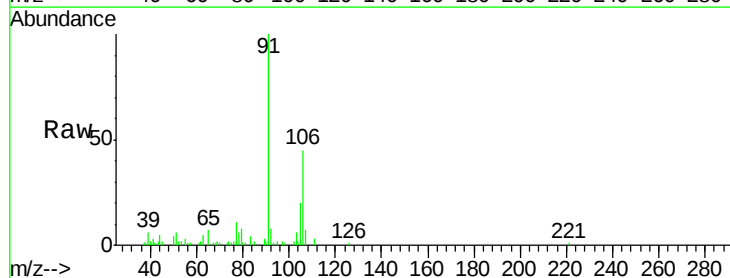
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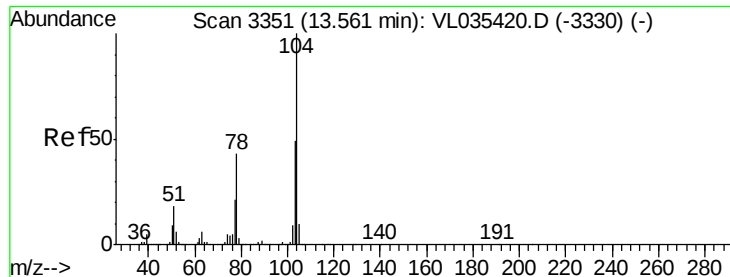
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#60
o-Xylene
Concen: 0.119 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VL035464.D
Acq: 19 Aug 2020 11:05

Tgt Ion: 91 Resp: 58563
Ion Ratio Lower Upper
91 100
106 49.9 21.8 65.3





#61

Stvrene

Concen: 0.219 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VL035464.D

Acq: 19 Aug 2020 11:05

Instrument :

MSVOA_L

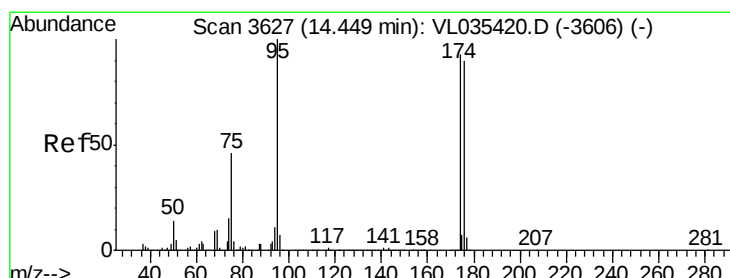
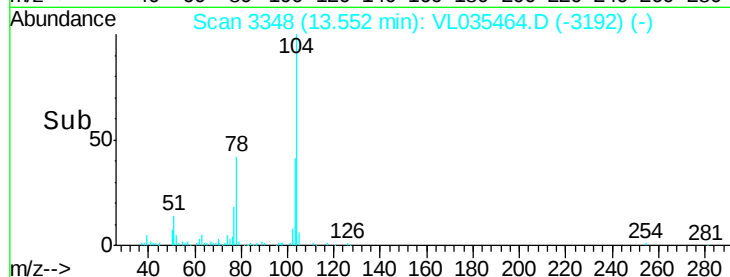
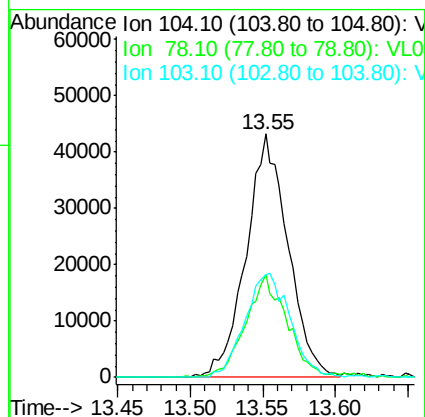
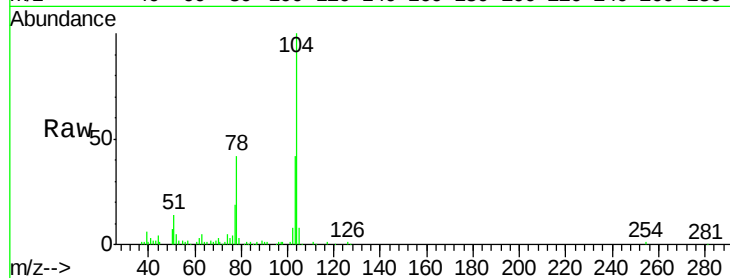
ClientSampled :

IA-1

Tot Ion:	104	Resp:	86879
Ion Ratio	Lower	Upper	
104	100		
78	42.2	45.4	68.2#
103	46.2	37.8	56.8

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.321 ppbv

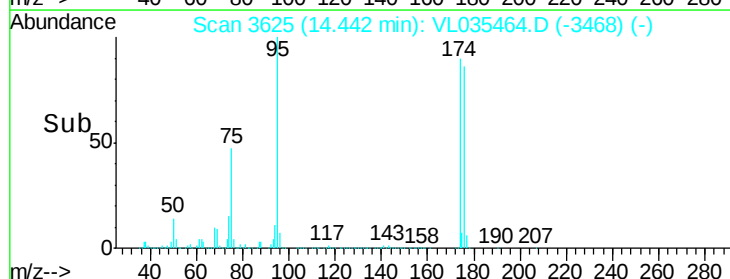
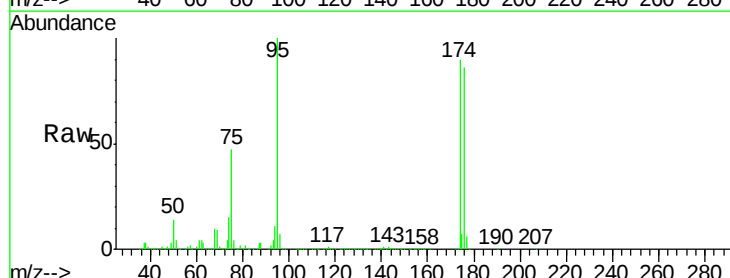
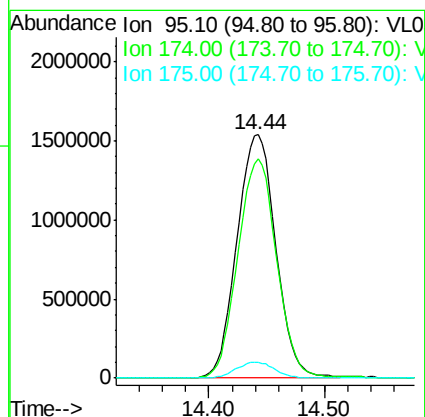
RT: 14.44 min Scan# 3625

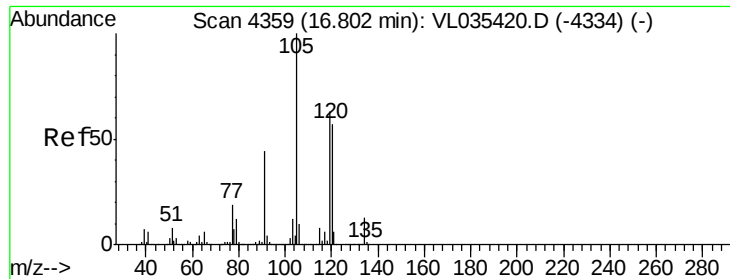
Delta R.T. 0.00 min

Lab File: VL035464.D

Acq: 19 Aug 2020 11:05

Tgt Ion:	95	Resp:	3581099
Ion Ratio	Lower	Upper	
95	100		
174	90.9	44.0	66.0#
175	6.7	3.2	4.8#





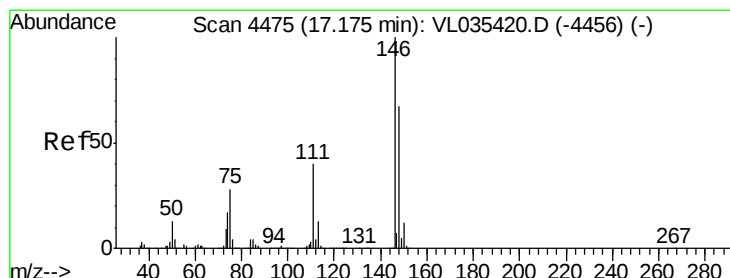
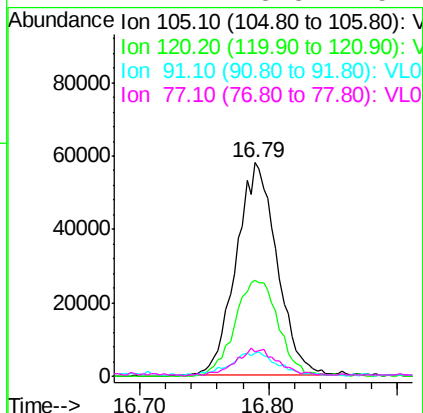
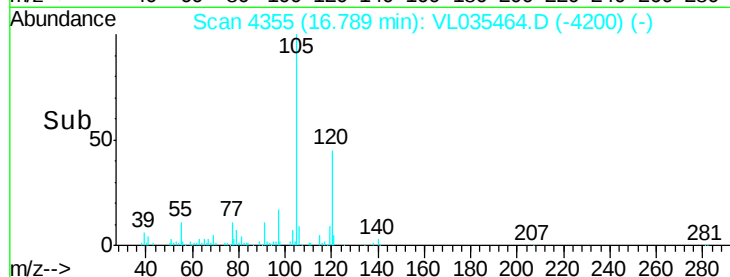
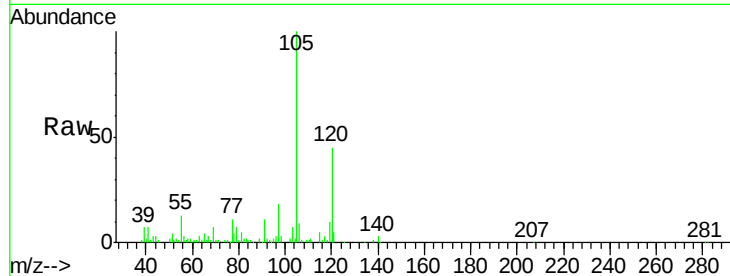
#74
 1,2,4-Trimethylbenzene
 Concen: 0.195 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.00 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Tot Ion	Ratio	Resp	Lower	Upper
105	100	127450		
120	45.1	37.8	56.8	
91	10.3	40.0	60.0	#
77	11.1	18.8	28.2	#

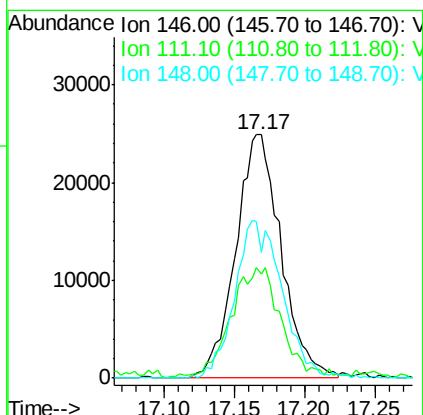
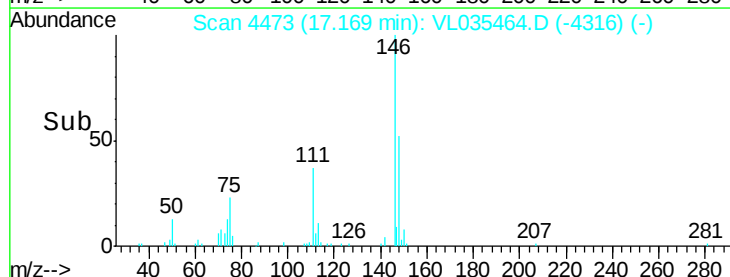
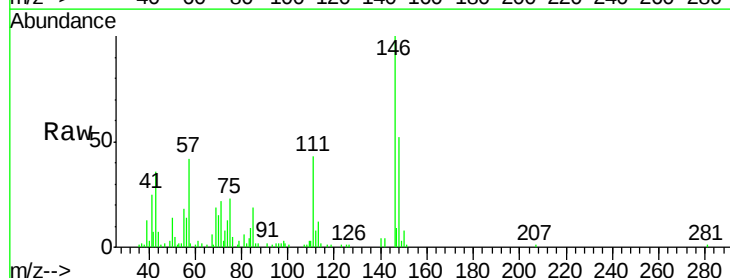
Manual Integrations
 APPROVED

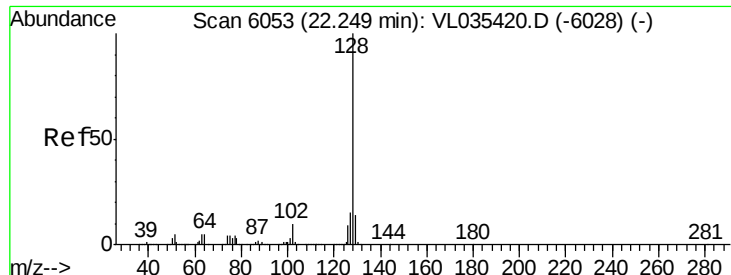
MMDadoda
 8/20/2020 11:07:51 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.113 ppbv
 RT: 17.17 min Scan# 4473
 Delta R.T. 0.00 min
 Lab File: VL035464.D
 Acq: 19 Aug 2020 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	56018		
111	49.8	24.8	74.4	
148	67.7	32.1	96.3	





#79

Naphthalene

Concen: 0.157 ppbv

RT: 22.24 min Scan# 6050

Delta R.T. 0.00 min

Lab File: VL035464.D

Acq: 19 Aug 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion:	128	Resp:	144587
Ion Ratio		Lower	Upper
128	100		
127	11.5	11.4	17.0
129	12.8	9.5	14.3

Manual Integrations
APPROVED

MMDadoda
8/20/2020 11:07:51 AM

