

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031720\
 Data File : VL034921.D
 Acq On : 17 Mar 2020 18:44
 Operator : SY/AP
 Sample : L1952-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

MMDadoda
 3/18/2020 5:35:51 PM

Quant Time: Mar 18 17:21:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	955151	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2030516	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2000125	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1705663	10.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	90123	0.689	ppbv	99
3) Chlorodifluoromethane	2.95	51	22368m	0.210	ppbv	
4) Chloromethane	3.10	50	34689	0.575	ppbv #	82
9) Propene	2.98	41	62968m	1.236	ppbv	
11) Trichlorofluoromethane	3.92	101	35488	0.255	ppbv	94
13) Ethanol	3.58	45	2565217	165.632	ppbv	95
15) Acetone	3.82	43	1637564	13.228	ppbv	100
19) Isopropyl Alcohol	3.95	45	152606	1.952	ppbv #	1
20) Methylene Chloride	4.32	84	113956	2.911	ppbv	88
26) Hexane	5.67	57	187495	1.974	ppbv #	55
34) 2-Butanone	5.23	43	369647	2.739	ppbv	98
35) Carbon Tetrachloride	7.01	117	9422m	0.075	ppbv	
36) Benzene	6.88	78	56701	0.313	ppbv #	91
37) 1,2-Dichloroethane	6.30	62	96468	0.945	ppbv	98
41) Tetrahydrofuran	6.04	42	116295	1.593	ppbv	98
53) Toluene	9.82	91	365903	1.751	ppbv	99
59) m/p-Xylene	12.99	91	74911m	0.330	ppbv	
60) o-Xylene	13.72	91	28187m	0.127	ppbv	

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

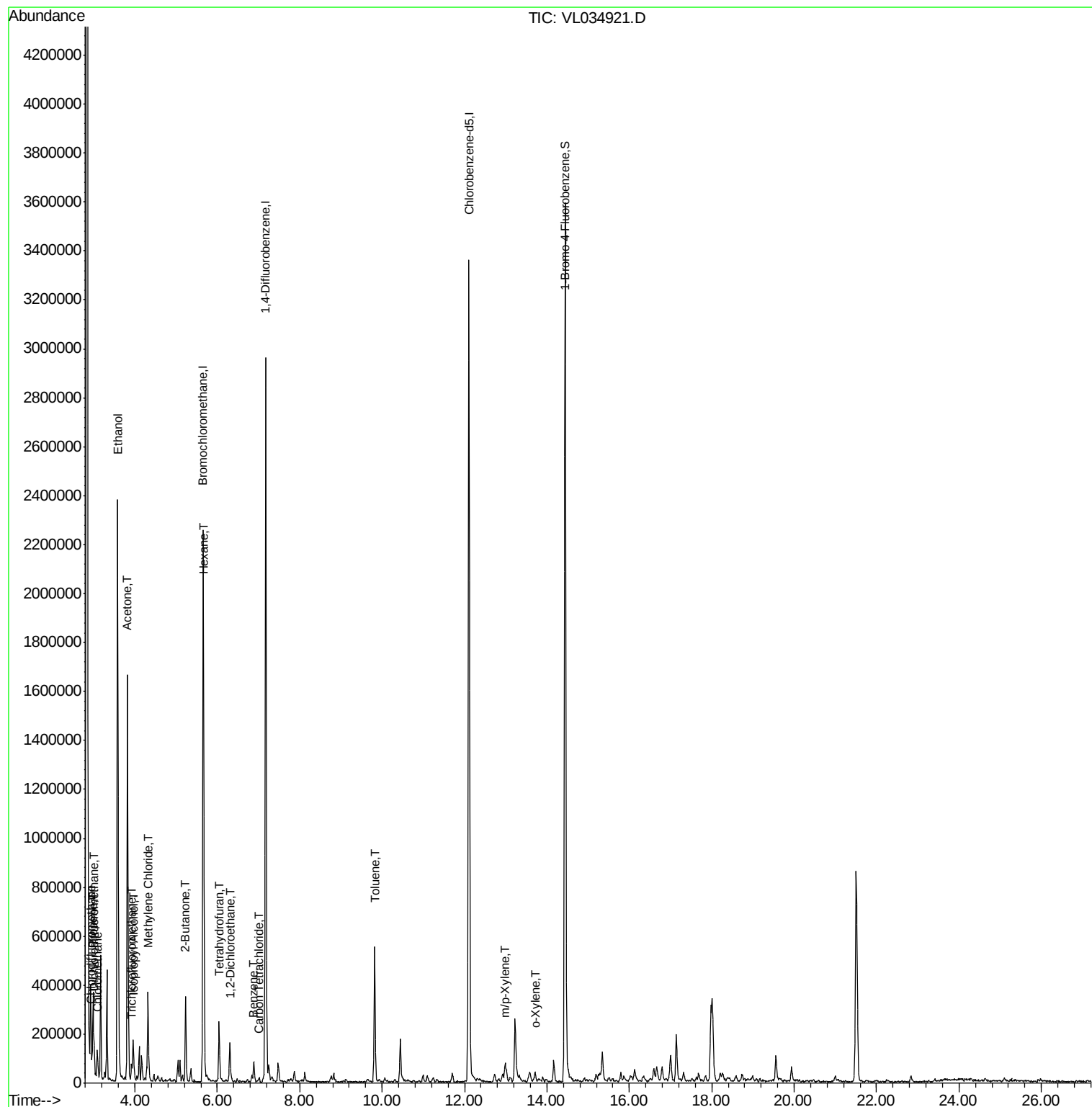
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031720\
Data File : VL034921.D
Acq On : 17 Mar 2020 18:44
Operator : SY/AP
Sample : L1952-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

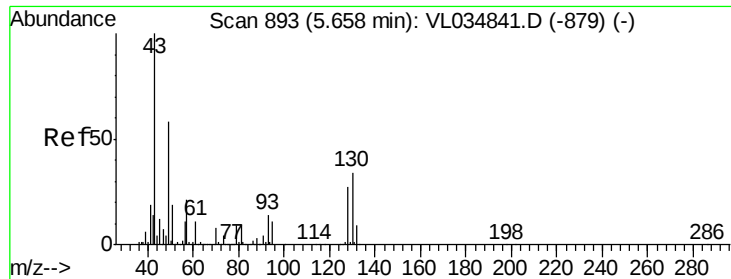
Instrument :
MSVOA_L
ClientSampleId :
IA-2

Manual Integrations
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Quant Time: Mar 18 17:21:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

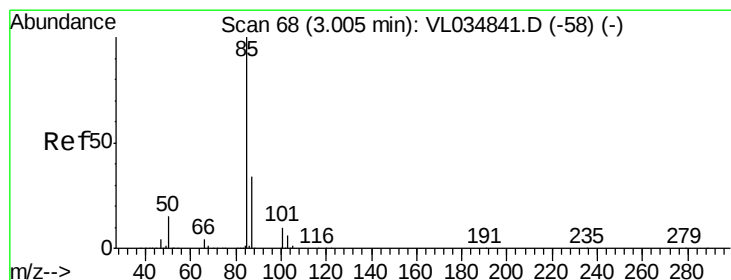
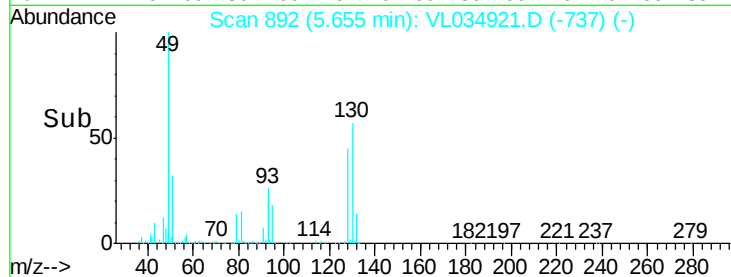
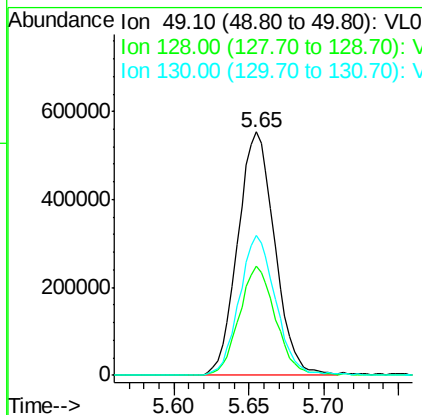
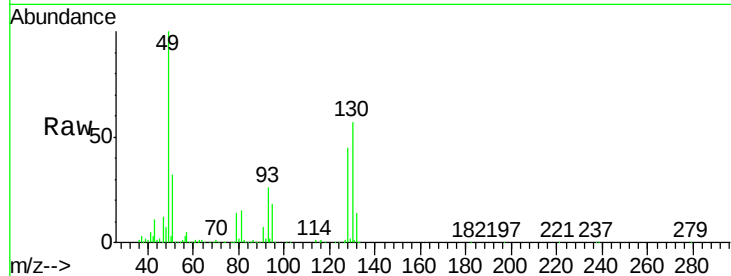
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion	Ratio	Lower	Upper
49	100		
128	44.4	23.4	70.3
130	56.8	30.0	90.0

Manual Integrations
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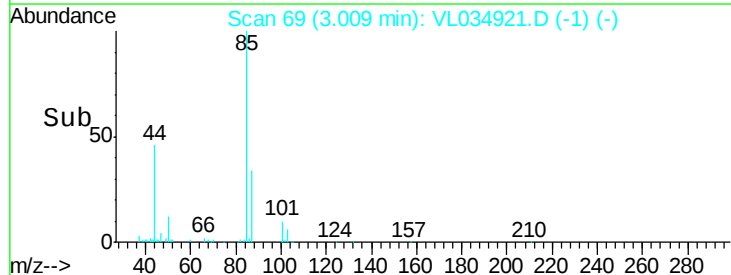
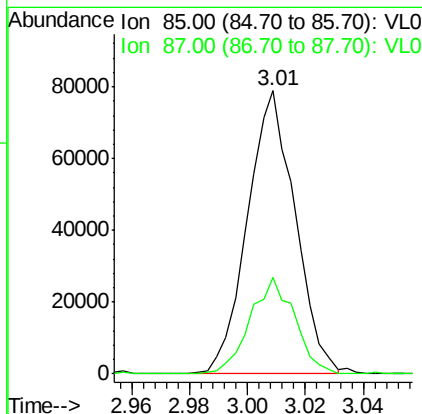
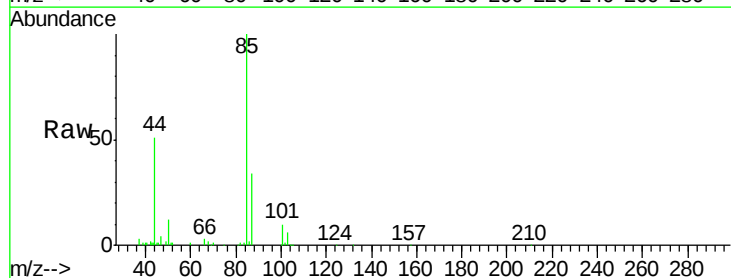
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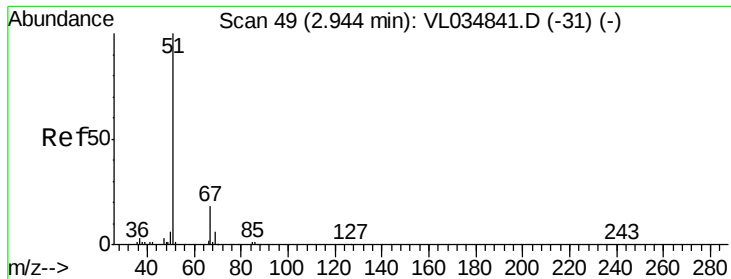


#2

Dichlorodifluoromethane
Concen: 0.689 ppbv
RT: 3.01 min Scan# 69
Delta R.T. 0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.3	26.9	40.3





#3

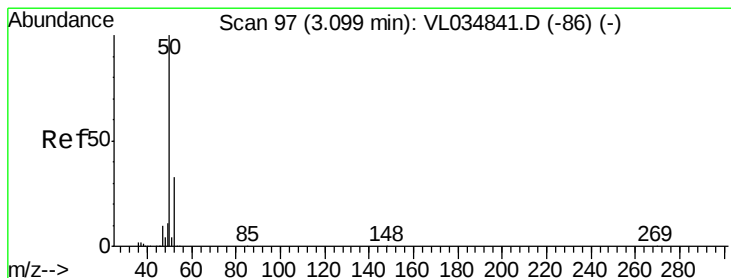
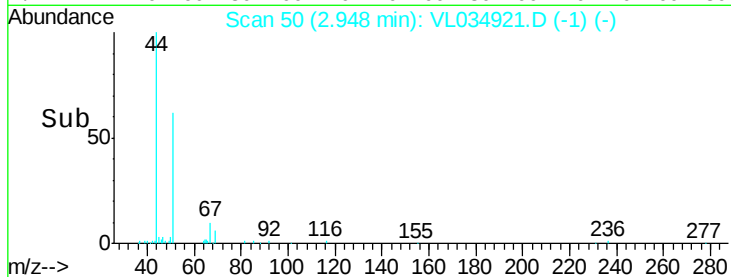
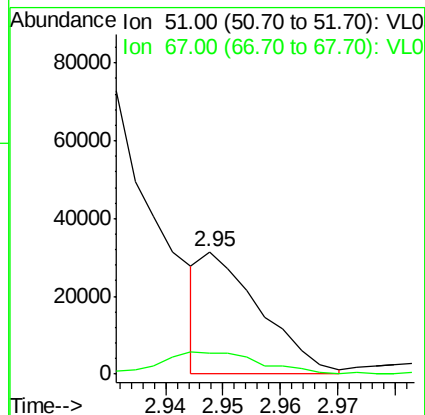
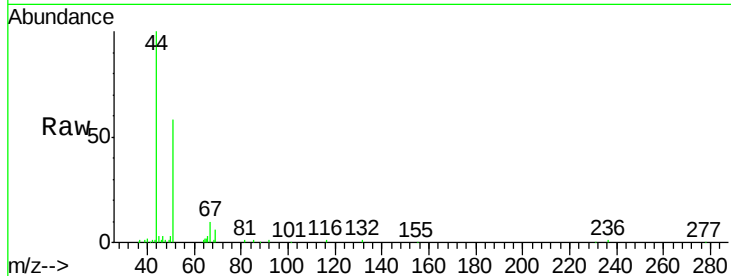
Chlorodifluoromethane
 Concen: 0.210 ppbv
 RT: 2.95 min Scan# 50
 Delta R.T. 0.00 min
 Lab File: VL034921.D
 Acq: 17 Mar 2020 18:44

Instrument :
 MSVOA_L
 ClientSampled :
 IA-2

Tot Ion	Ratio	Lower	Upper
51	100		
67	32.3	14.3	21.5#

Manual Integrations
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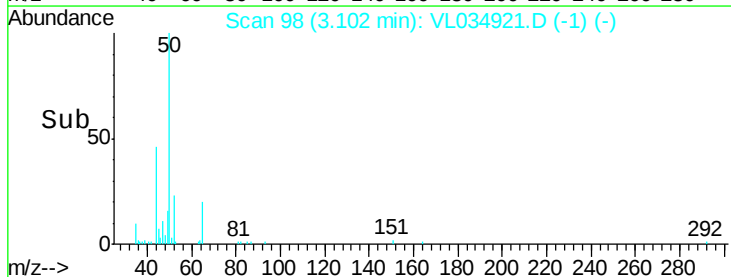
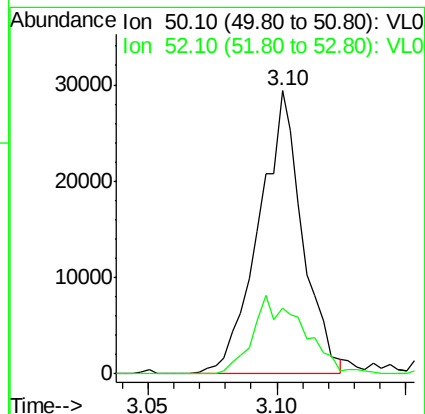
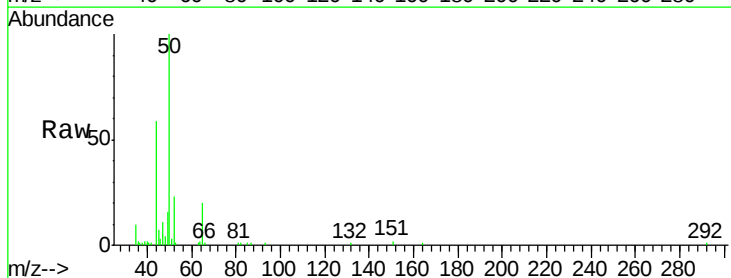
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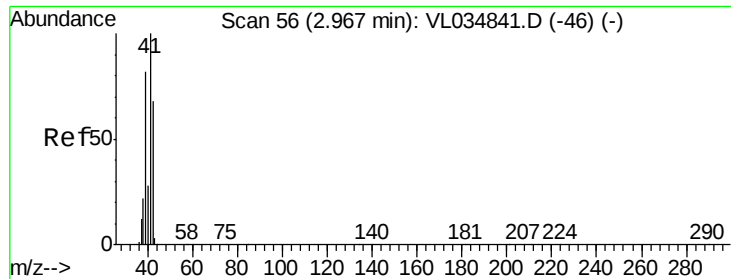


#4

Chloromethane
 Concen: 0.575 ppbv
 RT: 3.10 min Scan# 98
 Delta R.T. 0.00 min
 Lab File: VL034921.D
 Acq: 17 Mar 2020 18:44

Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.1	26.8	40.2#





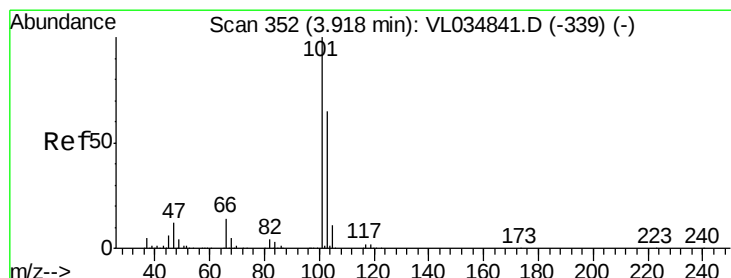
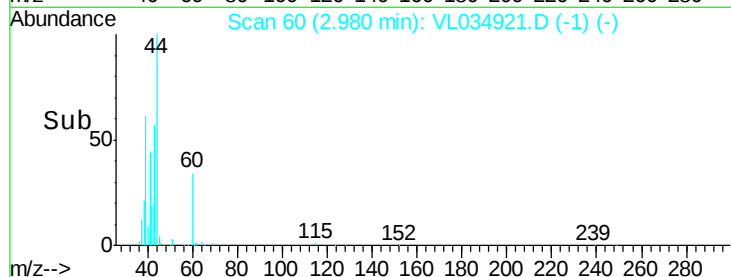
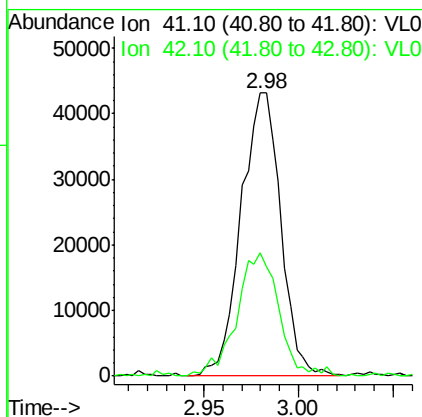
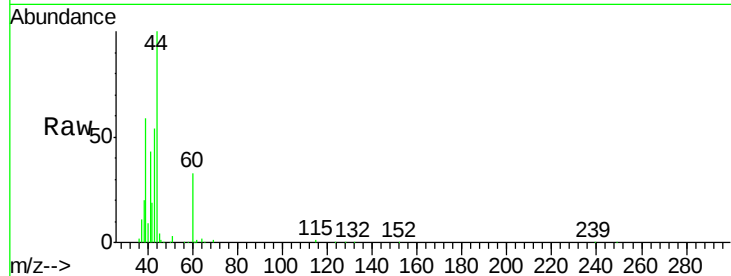
#9
 Propene
 Concen: 1.236 ppbv m
 RT: 2.98 min Scan# 60
 Delta R.T. 0.01 min
 Lab File: VL034921.D
 Acq: 17 Mar 2020 18:44

Instrument :
 MSVOA_L
 ClientSampled :
 IA-2

Tot Ion: 41 Resp: 62968
 Ion Ratio Lower Upper
 41 100
 42 127.5 55.2 82.8#

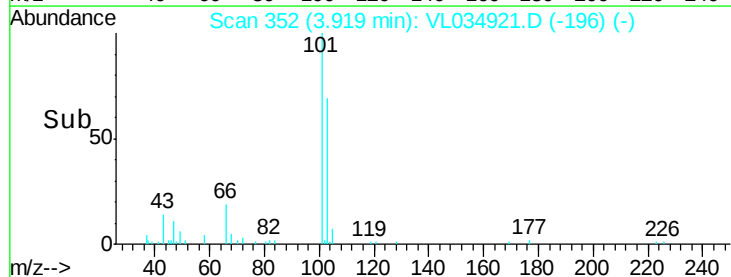
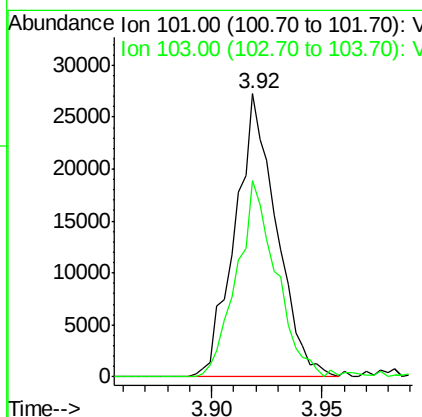
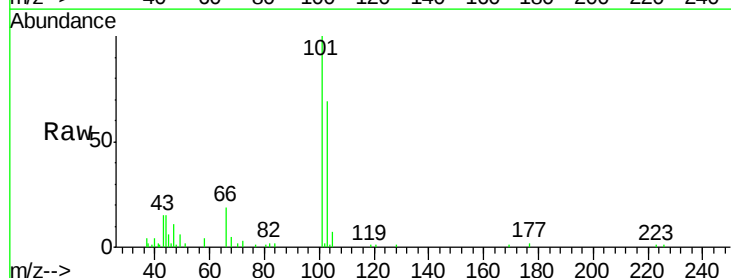
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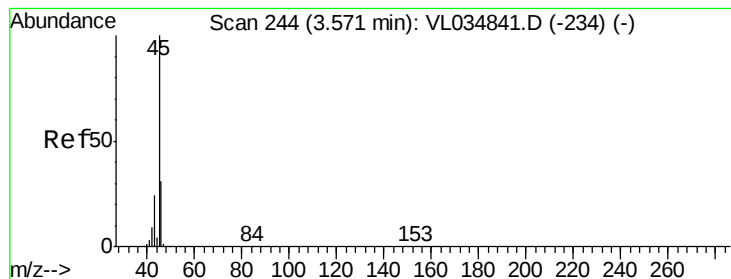
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#11
 Trichlorofluoromethane
 Concen: 0.255 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034921.D
 Acq: 17 Mar 2020 18:44

Tgt Ion: 101 Resp: 35488
 Ion Ratio Lower Upper
 101 100
 103 69.3 51.8 77.8





#13

Ethanol

Concen: 165.632 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL034921.D

Acq: 17 Mar 2020 18:44

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion: 45 Resp: 2565217

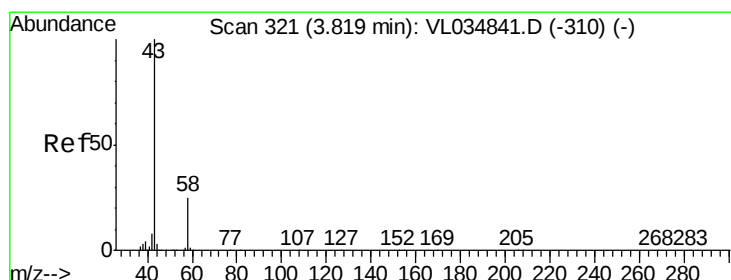
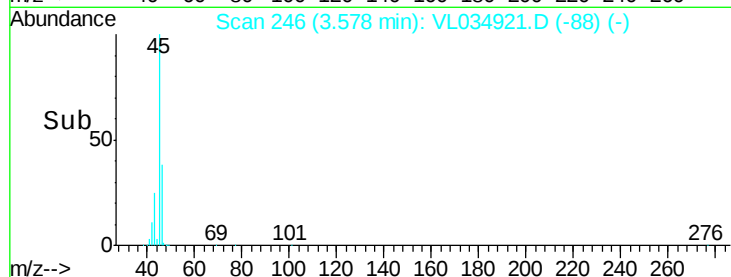
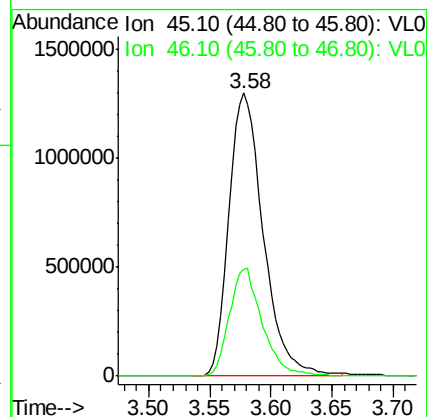
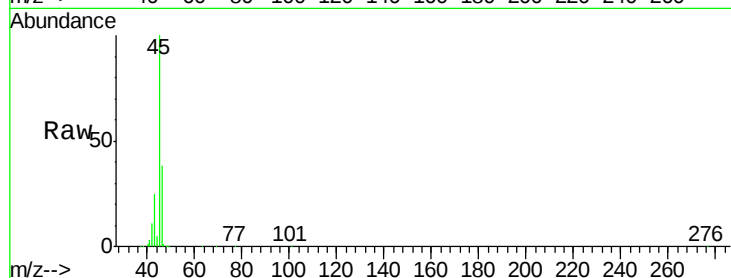
Ion Ratio Lower Upper

45 100

46 36.7 16.0 64.0

Manual Integrations
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#15

Acetone

Concen: 13.228 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034921.D

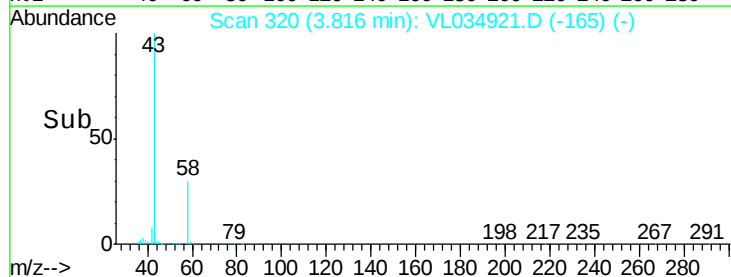
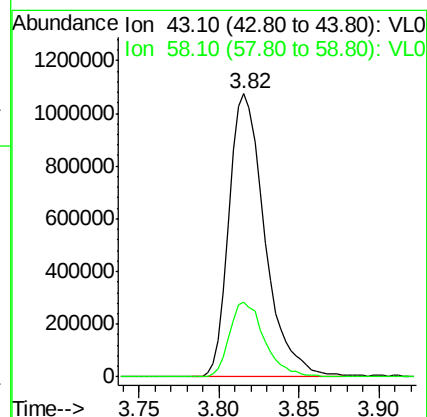
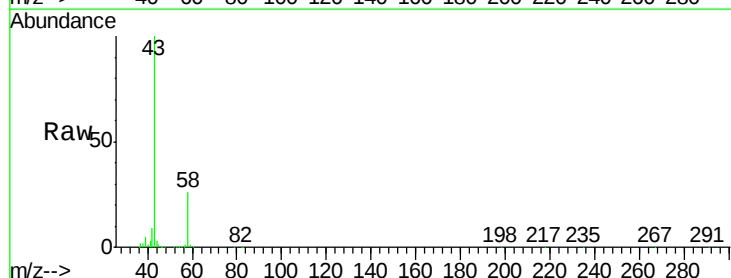
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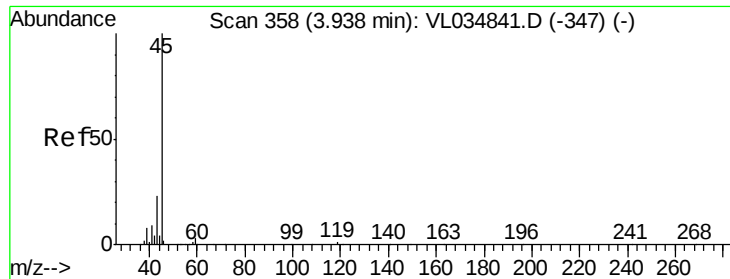
Tgt Ion: 43 Resp: 1637564

Ion Ratio Lower Upper

43 100

58 26.1 21.0 31.6





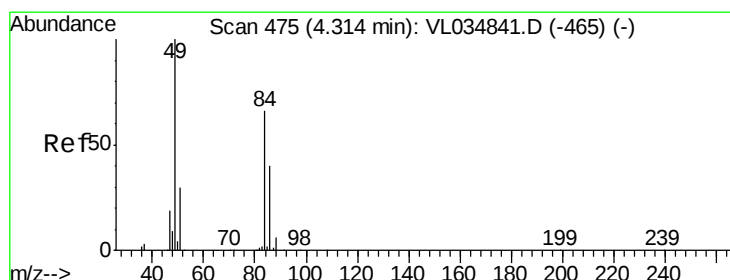
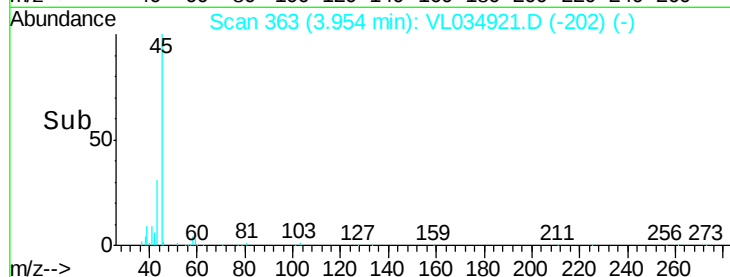
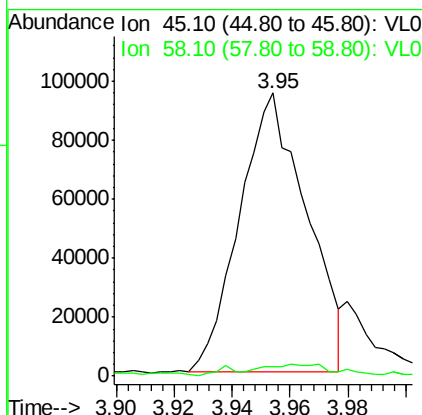
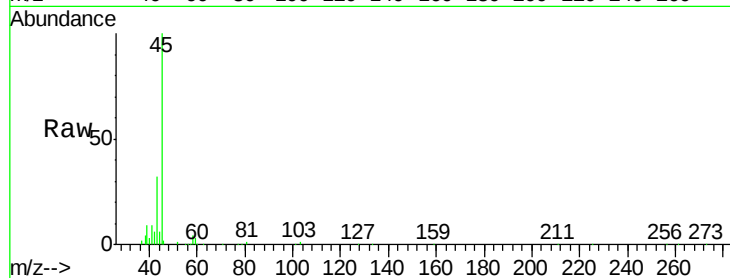
#19
Isopropyl Alcohol
Concen: 1.952 ppbv
RT: 3.95 min Scan# 363
Delta R.T. 0.02 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion: 45 Resp: 152606
Ion Ratio Lower Upper
45 100
58 280.3 30.5 45.7#

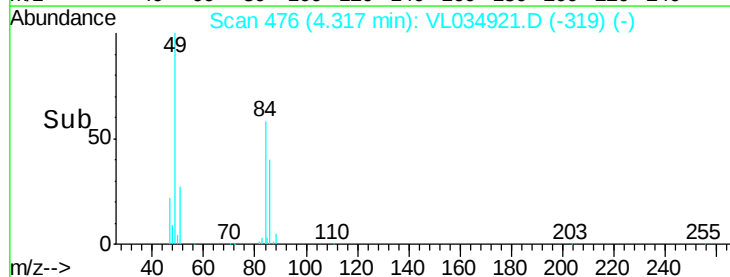
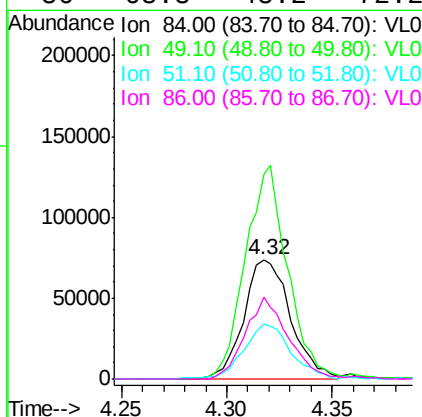
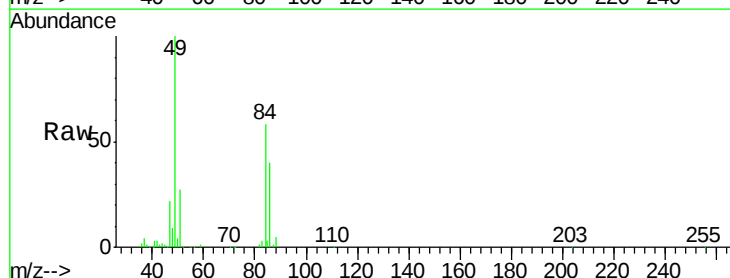
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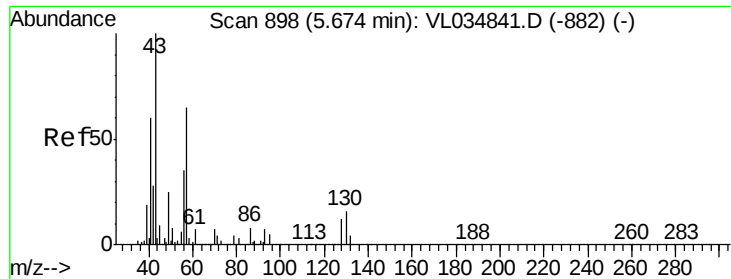
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#20
Methylene Chloride
Concen: 2.911 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Tgt Ion: 84 Resp: 113956
Ion Ratio Lower Upper
84 100
49 171.1 121.5 182.3
51 45.8 36.6 55.0
86 68.8 48.2 72.2





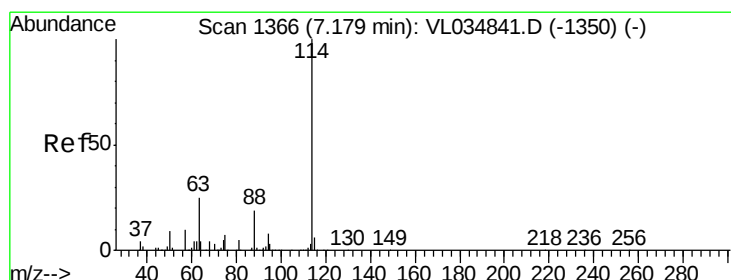
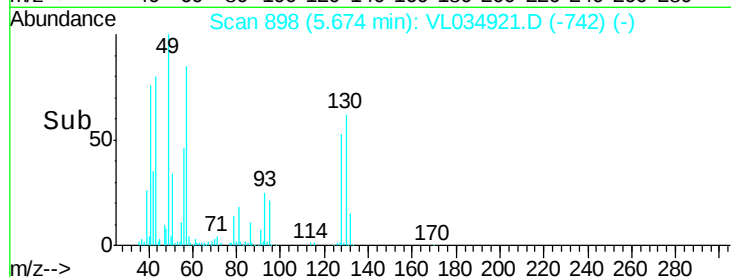
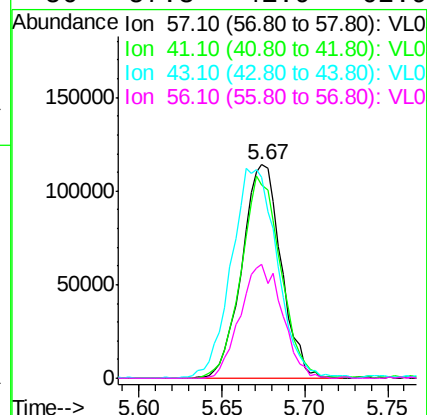
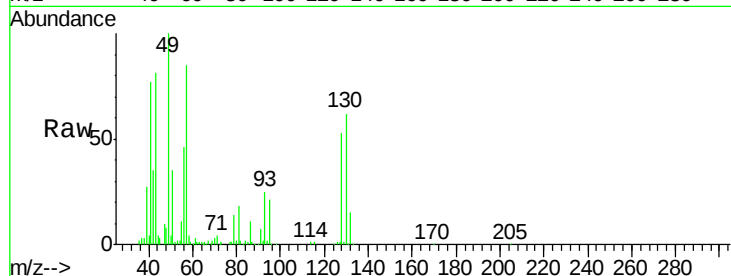
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Hexane
Concen: 1.974 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	96.4	72.6	109.0
43	115.6	183.8	275.6#
56	57.3	41.9	62.9

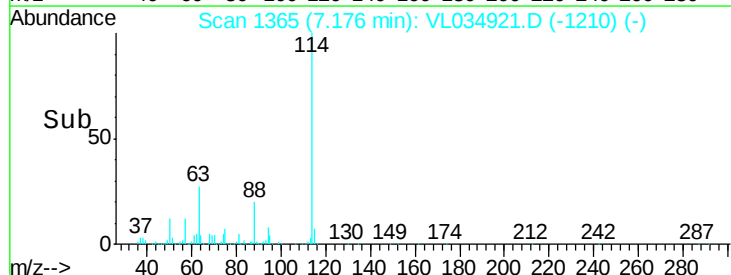
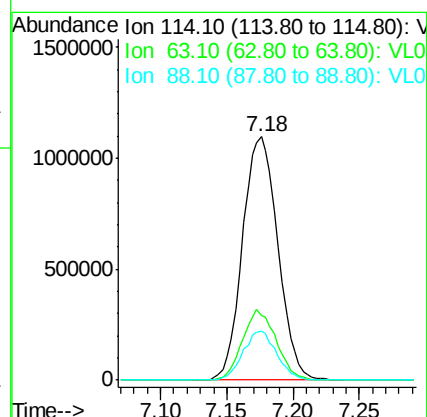
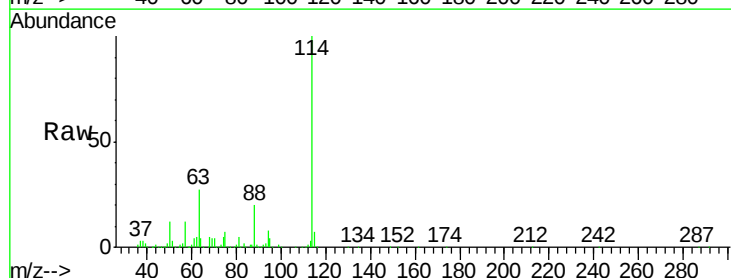
Manual Integrations
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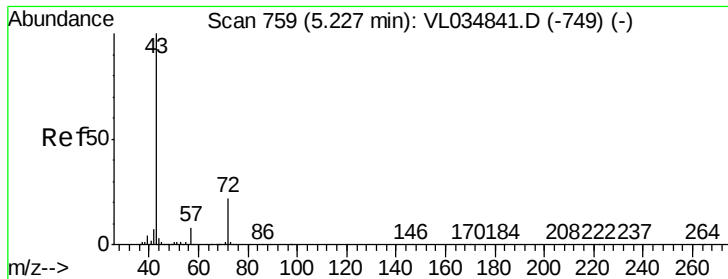
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.8	20.6	31.0
88	19.2	15.0	22.6





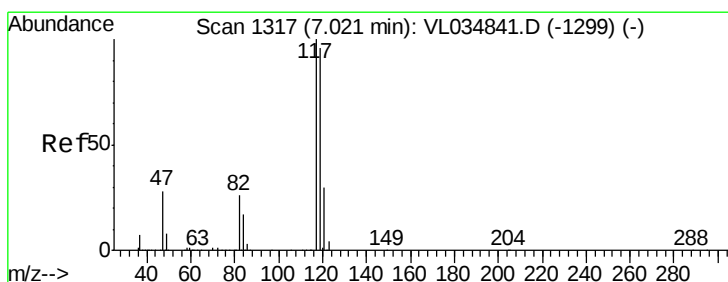
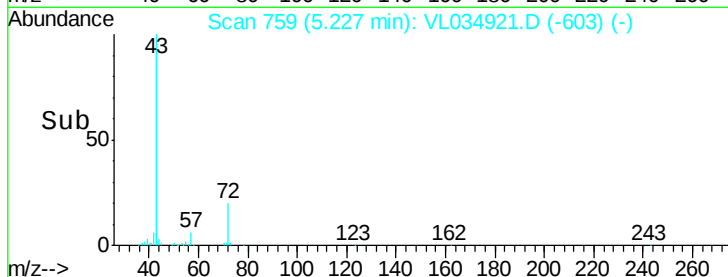
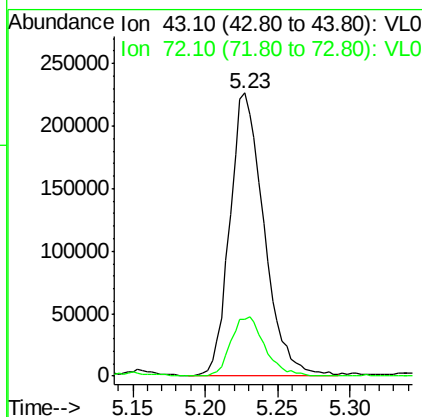
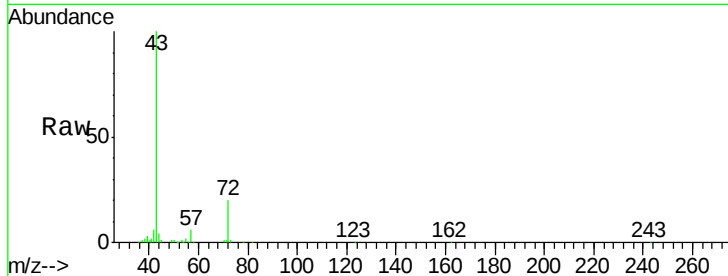
#34
2-Butanone
Concen: 2.739 ppbv
RT: 5.23 min Scan# 759
Delta R.T. 0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion	Ratio	Lower	Upper
43	100		
72	20.9	17.6	26.4

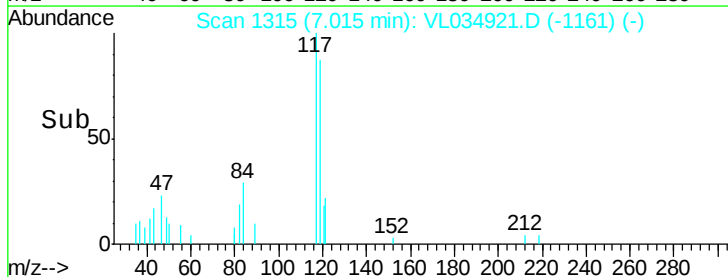
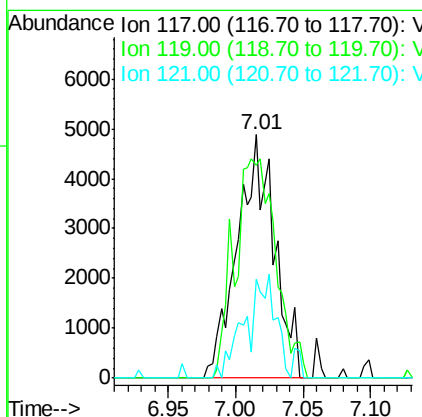
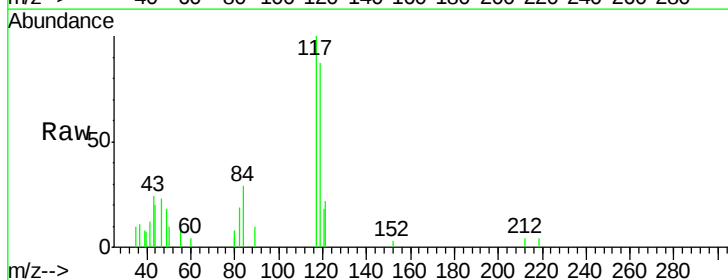
Manual Integrations
APPROVED

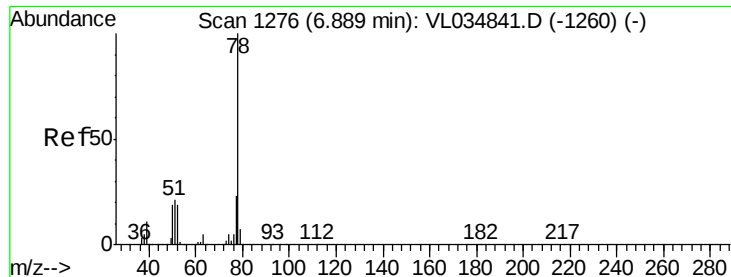
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#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	87.4	77.0	115.4
121	22.5	24.0	36.0#





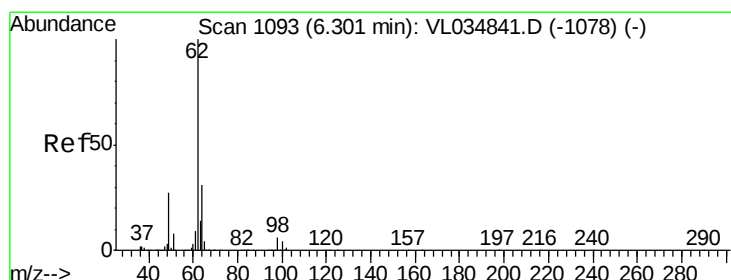
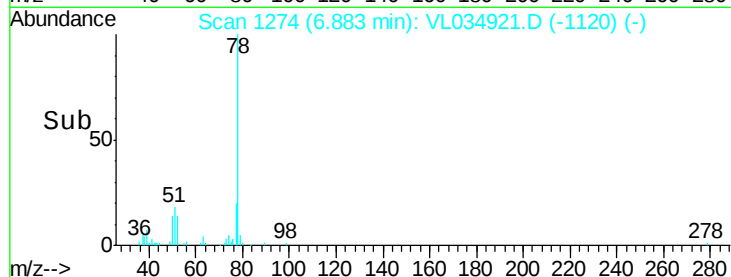
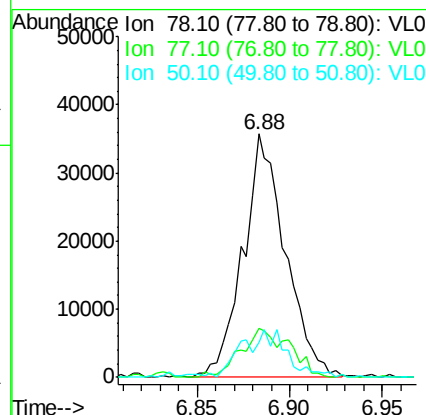
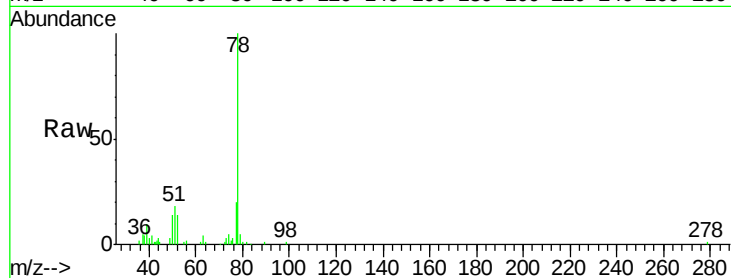
#36
Benzene
Concen: 0.313 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	Ion	Ratio	Lower	Upper
78	78	100		
77	77	20.2	18.2	27.2
50	50	13.2	15.2	22.8

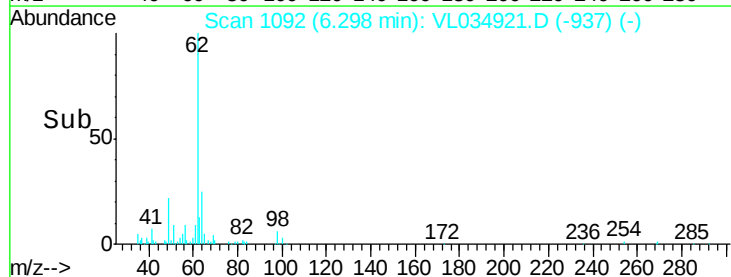
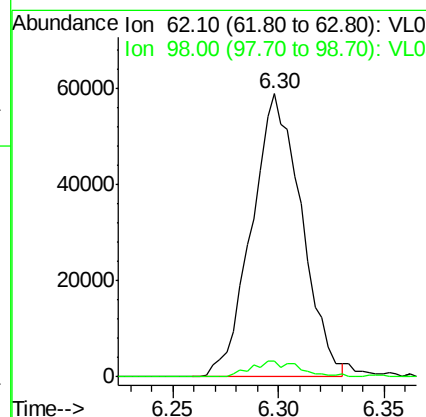
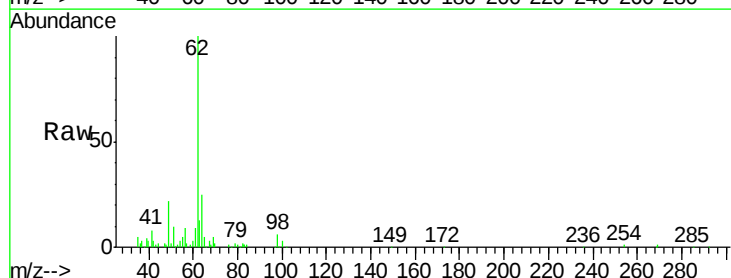
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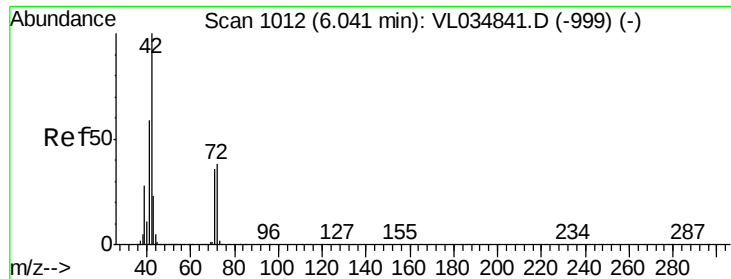
MMDadoda
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#37
1,2-Dichloroethane
Concen: 0.945 ppbv
RT: 6.30 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Tgt Ion	Ion	Ratio	Lower	Upper
62	62	100		
98	98	5.7	5.2	7.8





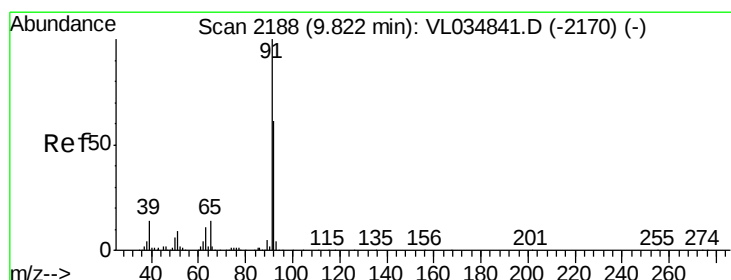
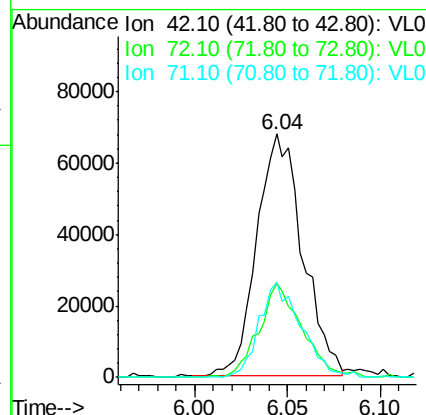
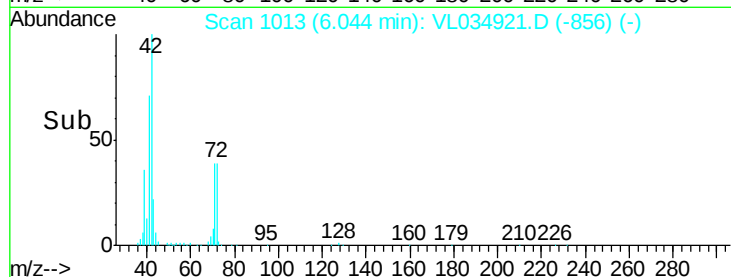
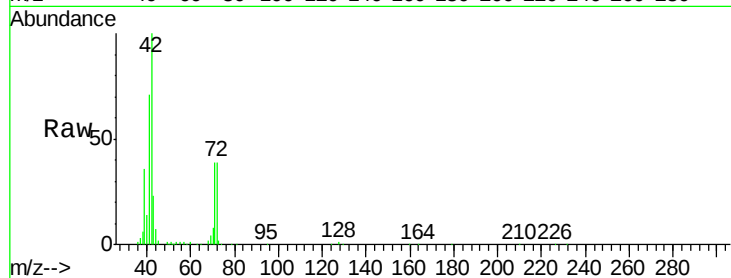
#41
Tetrahydrofuran
Concen: 1.593 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	Ratio	Resp	Lower	Upper
42	100	116295		
72	36.9		30.8	46.2
71	36.3		30.1	45.1

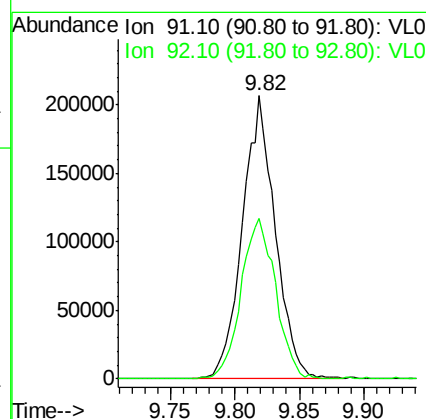
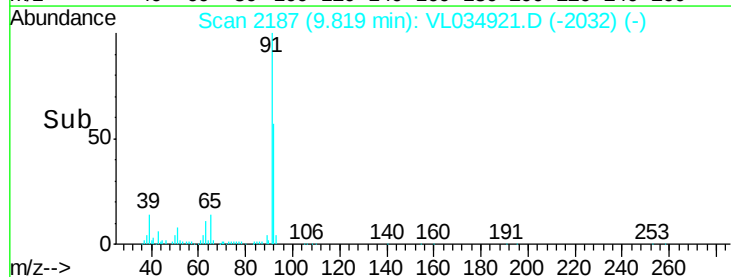
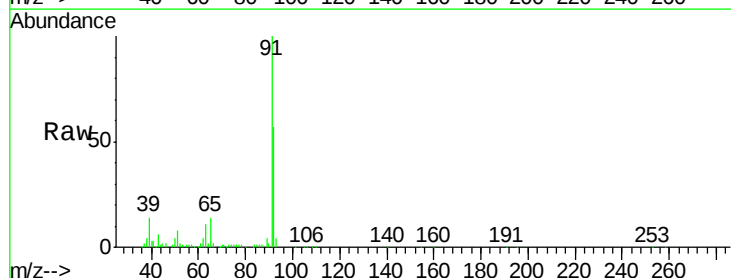
Manual Integrations
APPROVED

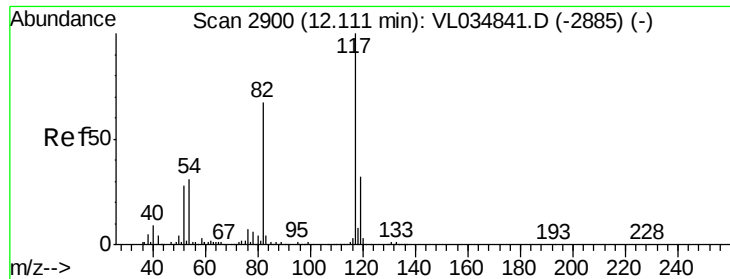
MMDadoda
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#53
Toluene
Concen: 1.751 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	365903		
92	59.8		48.6	72.8





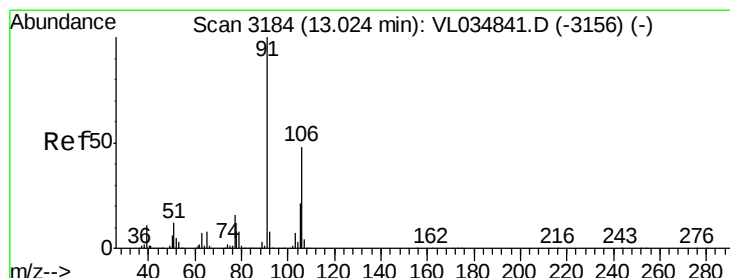
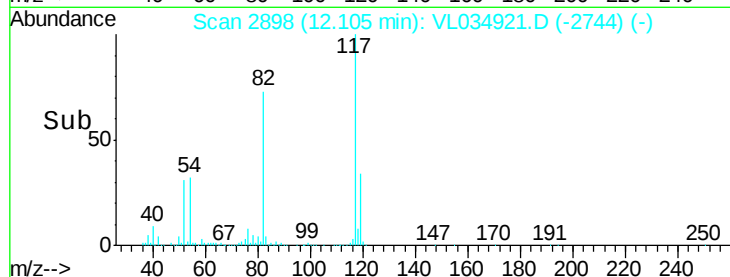
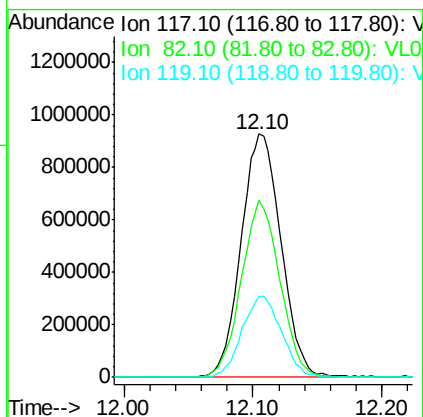
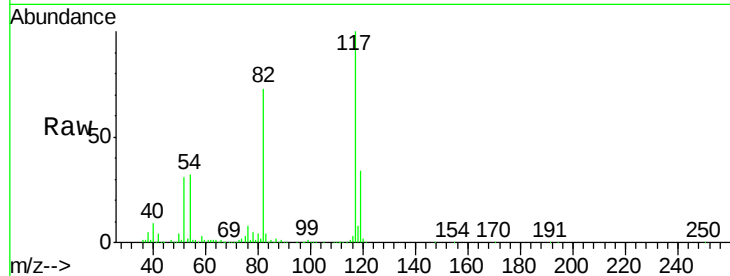
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion:117 Resp: 2000125
Ion Ratio Lower Upper
117 100
82 70.2 51.1 76.7
119 33.2 27.3 40.9

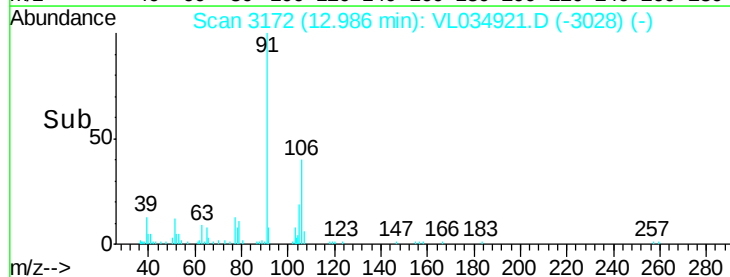
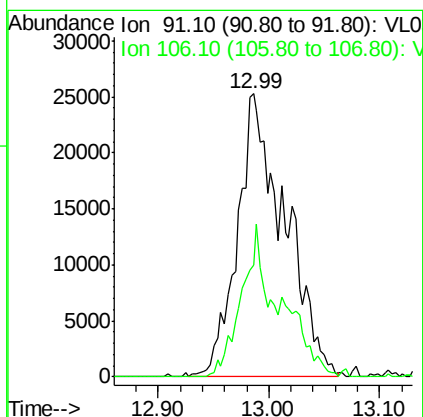
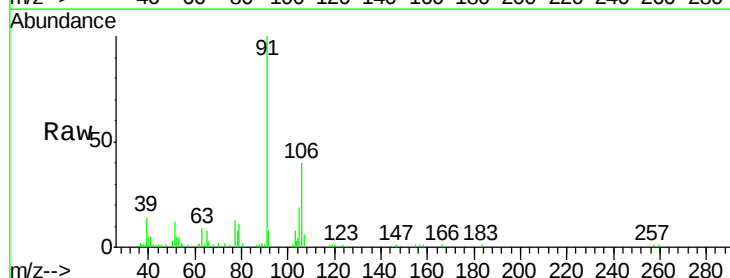
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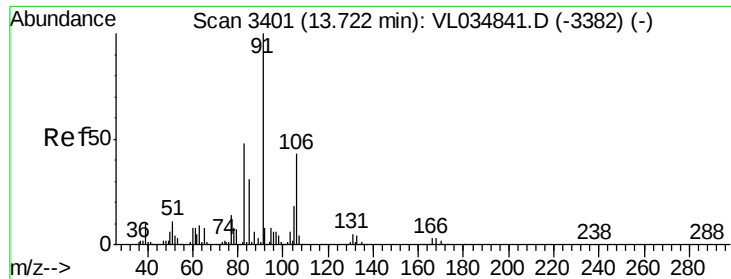
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#59
m/p-Xylene
Concen: 0.330 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. -0.04 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Tgt Ion: 91 Resp: 74911
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#





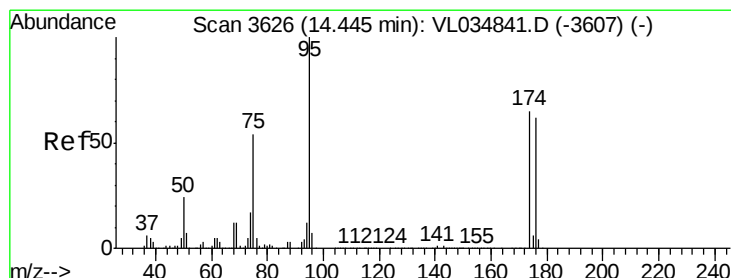
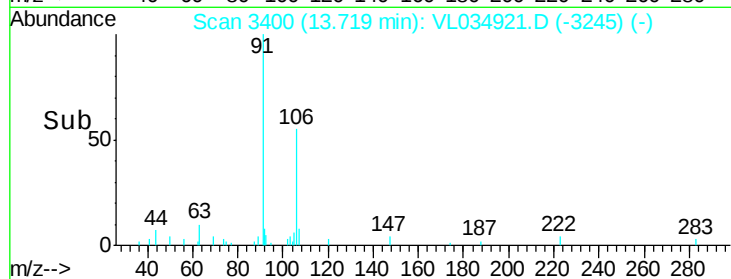
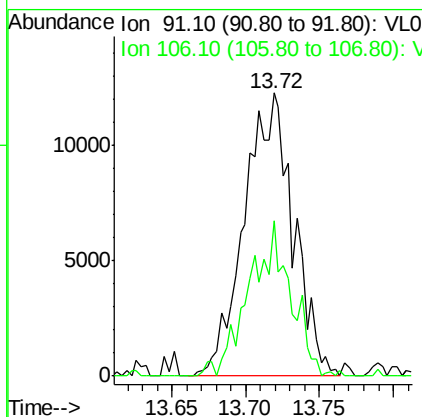
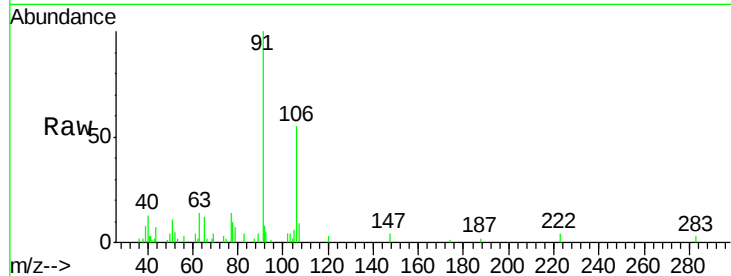
#60
o-Xylene
Concen: 0.127 ppbv m
RT: 13.72 min Scan# 3400
Delta R.T. -0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Instrument :
MSVOA_L
ClientSampleID :
IA-2

Tot Ion: 91 Resp: 28187
Ion Ratio Lower Upper
91 100
106 46.6 22.5 67.5

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.935 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL034921.D
Acq: 17 Mar 2020 18:44

Tgt Ion: 95 Resp: 1705663
Ion Ratio Lower Upper
95 100
174 64.9 55.2 82.8
175 4.9 4.3 6.5

