

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034656.D
 Acq On : 19 Feb 2020 22:21
 Operator : SY/AP
 Sample : L1553-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

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 2/21/2020 3:24:22 PM

Quant Time: Feb 20 07:50:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	745878	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1591714	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.11	117	1543285	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1344420	10.31	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	35689	0.217	ppbv	92
3) Chlorodifluoromethane	2.95	51	29870m	0.331	ppbv	
4) Chloromethane	3.10	50	32284	0.585	ppbv	89
9) Propene	2.99	41	21791m	0.621	ppbv	
11) Trichlorofluoromethane	3.92	101	45472	0.305	ppbv	94
13) Ethanol	3.57	45	52506m	5.586	ppbv	
15) Acetone	3.82	43	577636	5.269	ppbv	97
19) Isopropyl Alcohol	3.96	45	44925m	0.702	ppbv	
20) Methylene Chloride	4.32	84	64064	1.535	ppbv	85
26) Hexane	5.67	57	71037	0.956	ppbv #	37
34) 2-Butanone	5.24	43	18169m	0.157	ppbv	
35) Carbon Tetrachloride	7.01	117	11843m	0.078	ppbv	
36) Benzene	6.89	78	24557m	0.173	ppbv	
53) Toluene	9.82	91	130669	0.840	ppbv	100

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

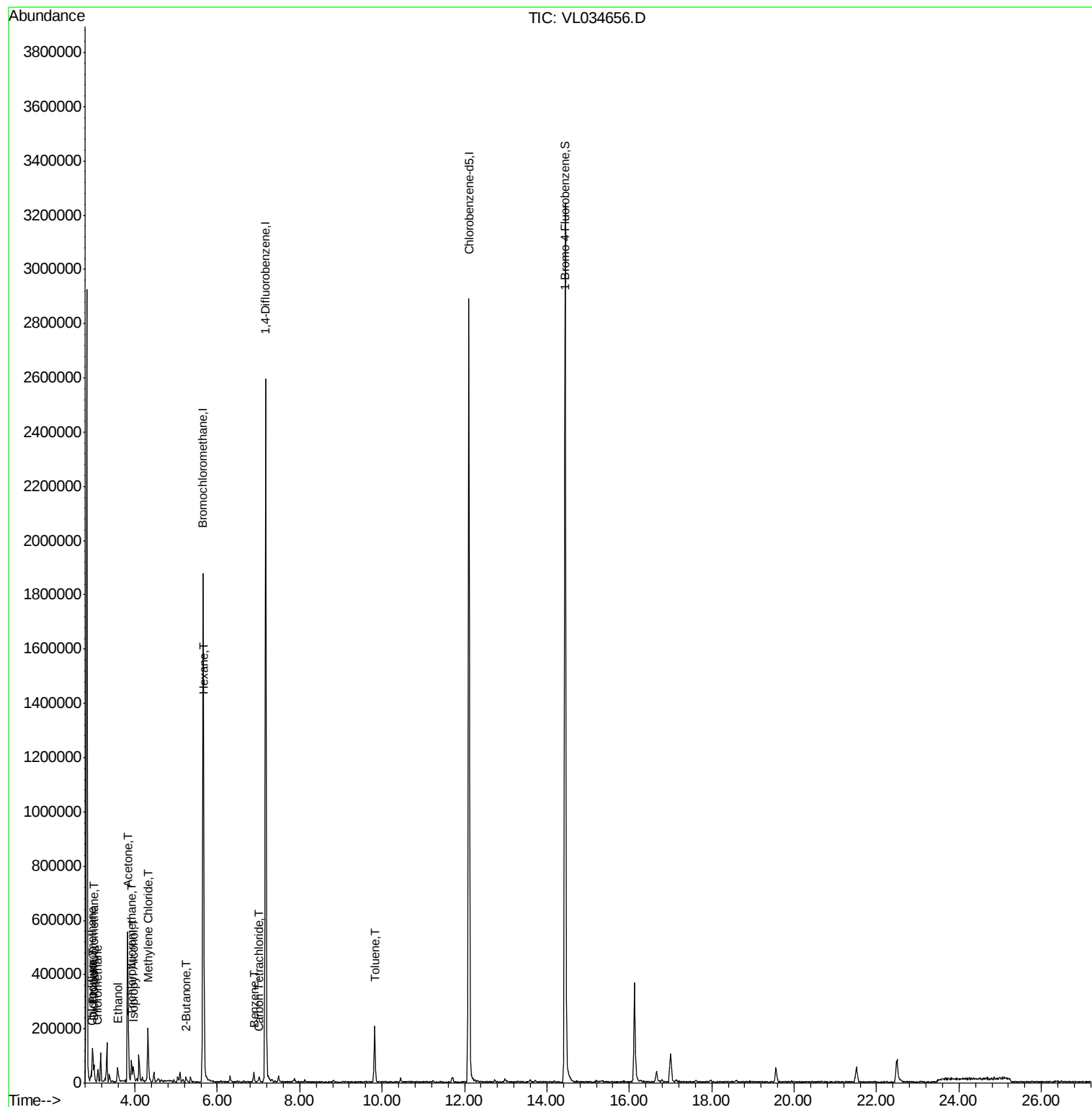
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
Data File : VL034656.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

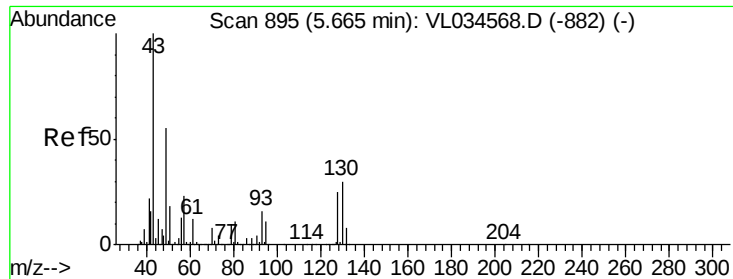
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
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2/21/2020 3:24:22 PM

Quant Time: Feb 20 07:50:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

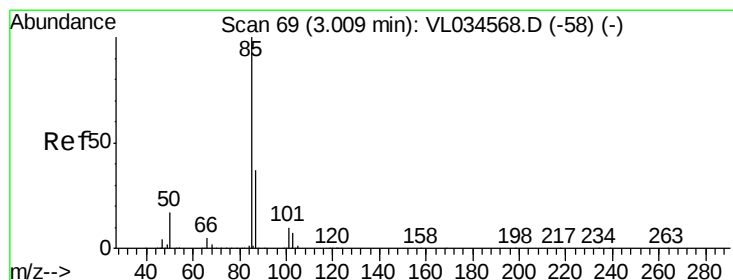
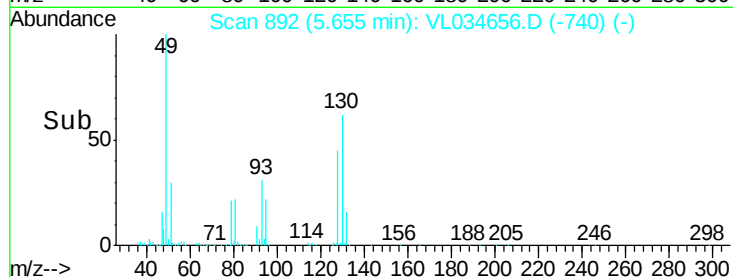
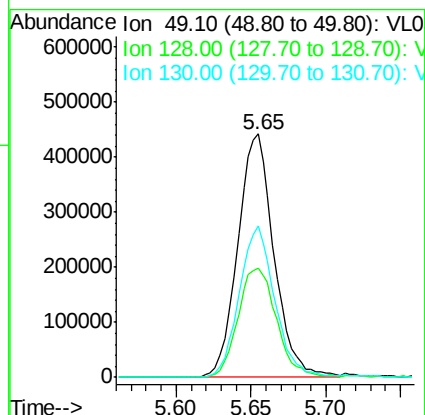
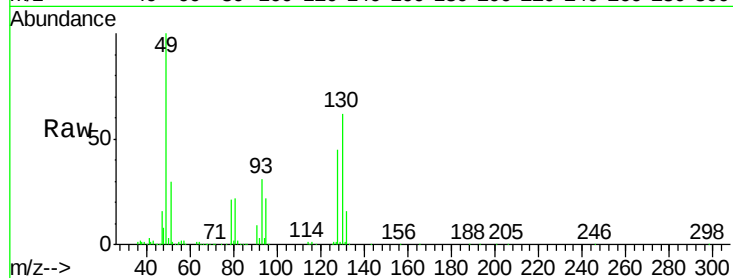
ClientSampled :

AA-1

Tot Ion:	49	Resp:	745878
Ion	Ratio	Lower	Upper
49	100		
128	48.7	22.7	68.1
130	61.8	28.6	85.8

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#2

Dichlorodifluoromethane

Concen: 0.217 ppbv

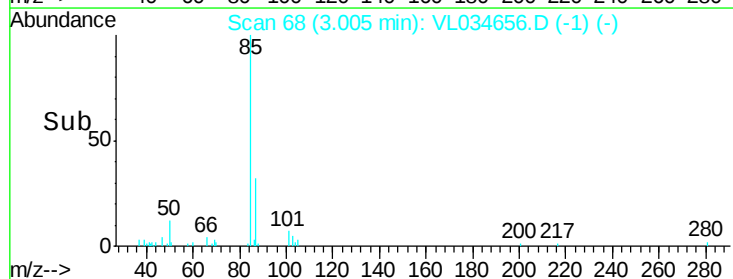
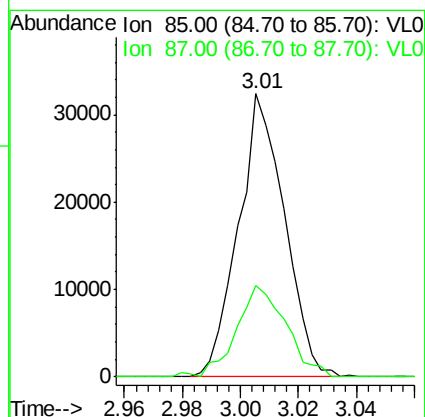
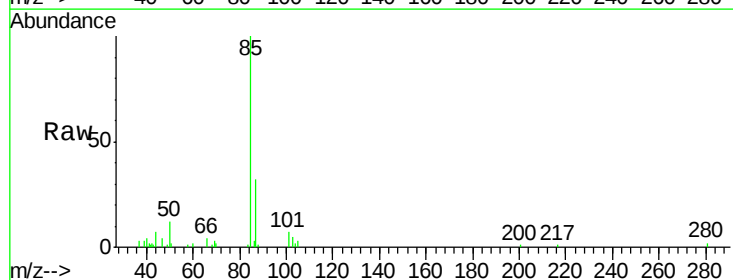
RT: 3.01 min Scan# 68

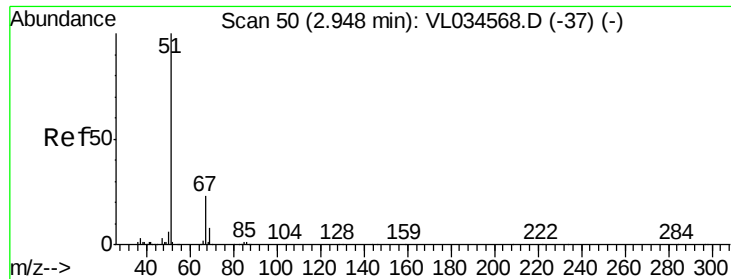
Delta R.T. -0.00 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Tgt Ion:	85	Resp:	35689
Ion	Ratio	Lower	Upper
85	100		
87	32.3	29.5	44.3





#3

Chlorodifluoromethane

Concen: 0.331 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 51 Resp: 29870

Ion Ratio Lower Upper

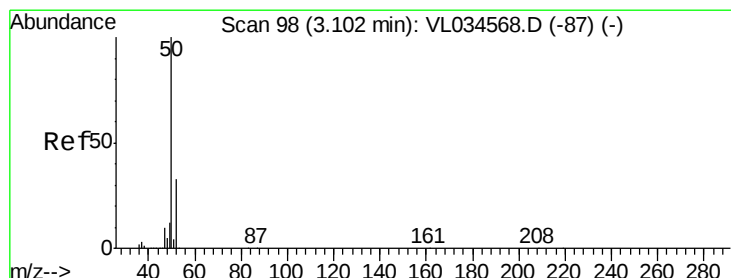
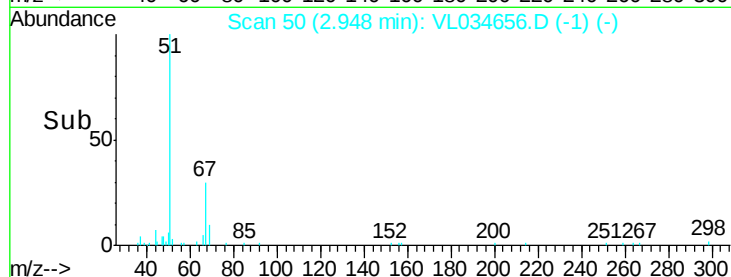
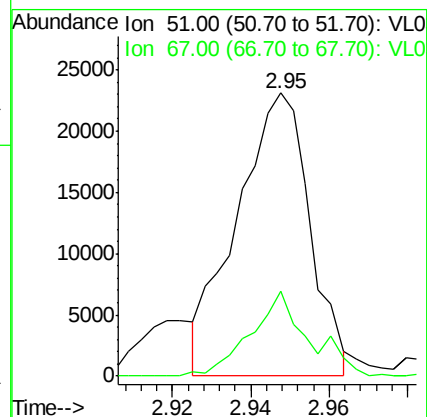
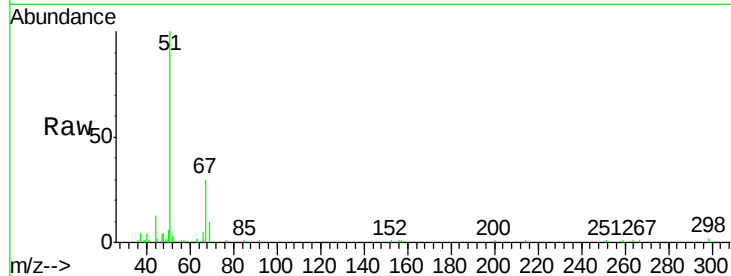
51 100

67 24.0 17.8 26.8

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#4

Chloromethane

Concen: 0.585 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034656.D

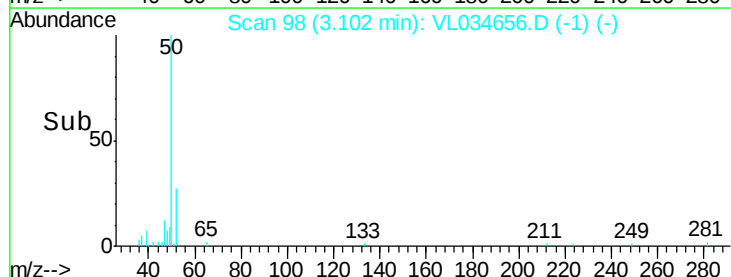
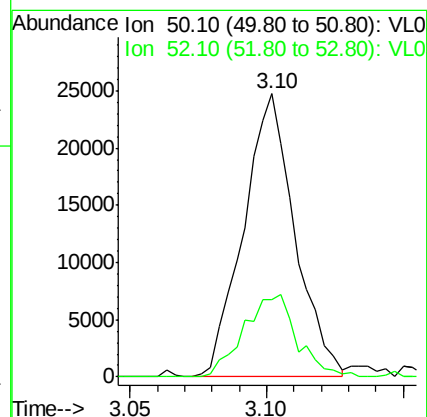
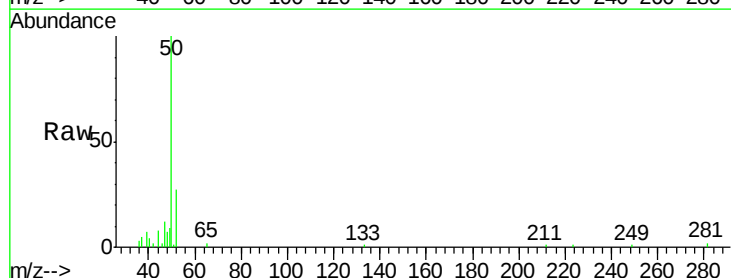
Acq: 19 Feb 2020 22:21

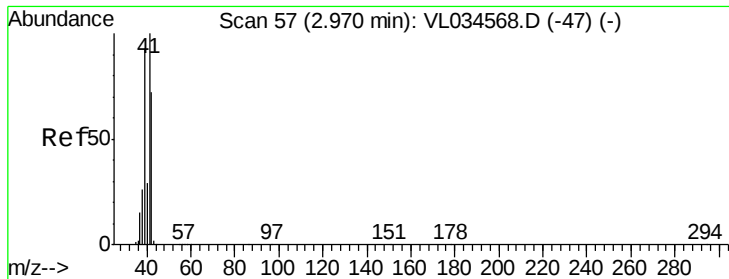
Tgt Ion: 50 Resp: 32284

Ion Ratio Lower Upper

50 100

52 26.9 26.6 39.8





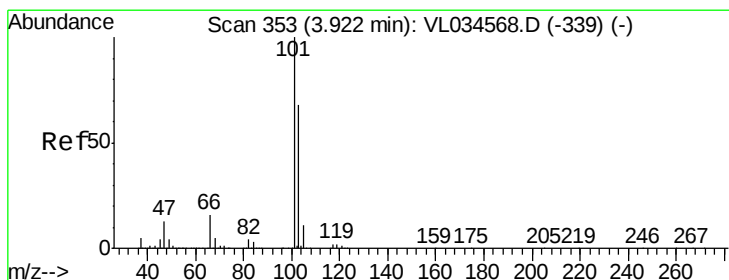
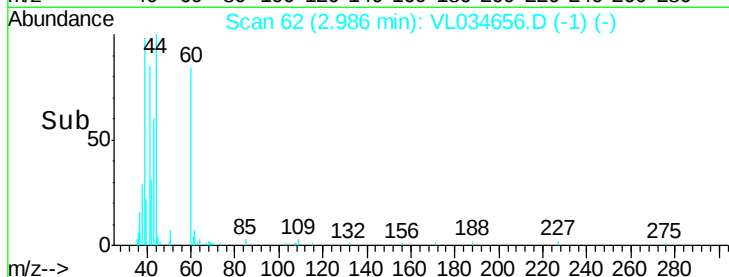
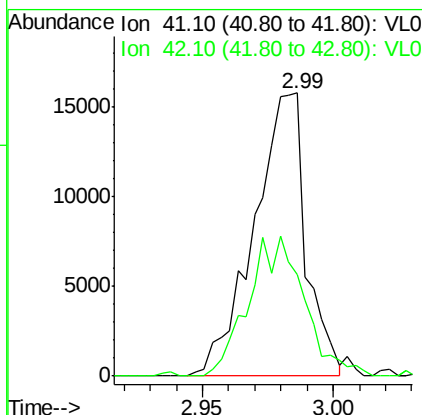
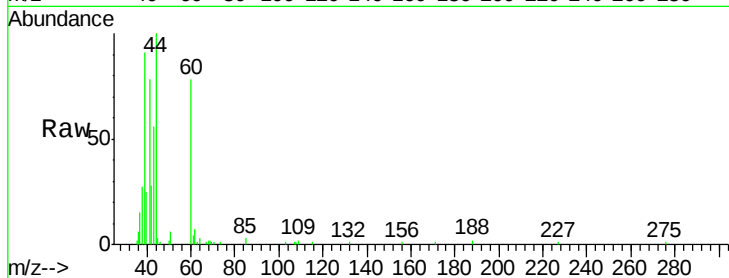
#9
Propene
Concen: 0.621 ppbv m
RT: 2.99 min Scan# 62
Delta R.T. 0.02 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion: 41 Resp: 21791
Ion Ratio Lower Upper
41 100
42 53.7 57.0 85.4#

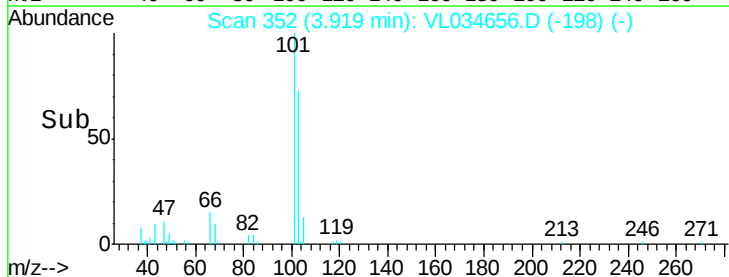
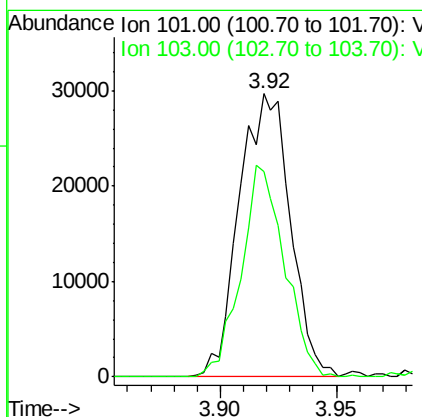
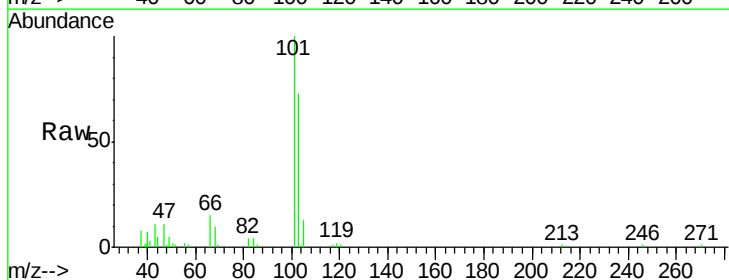
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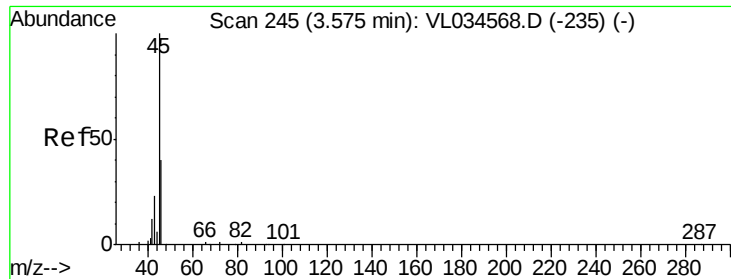
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#11
Trichlorofluoromethane
Concen: 0.305 ppbv
RT: 3.92 min Scan# 352
Delta R.T. -0.00 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Tgt Ion: 101 Resp: 45472
Ion Ratio Lower Upper
101 100
103 72.6 54.4 81.6





#13

Ethanol

Concen: 5.586 ppbv m

RT: 3.57 min Scan# 245

Delta R.T. -0.00 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 45 Resp: 52506

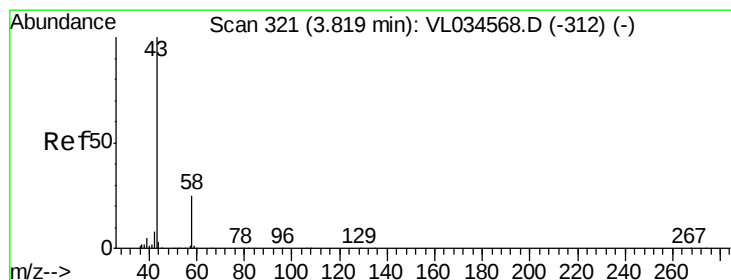
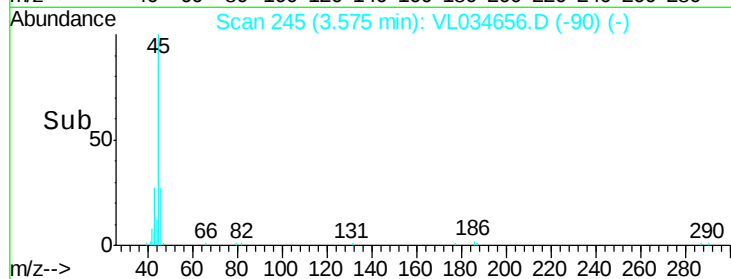
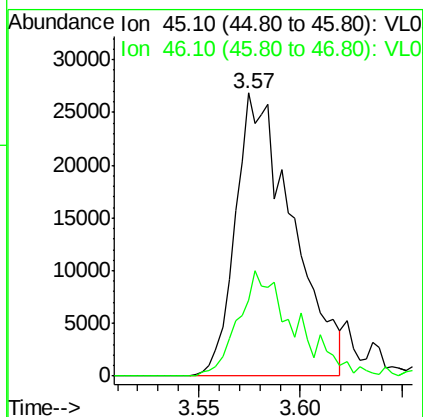
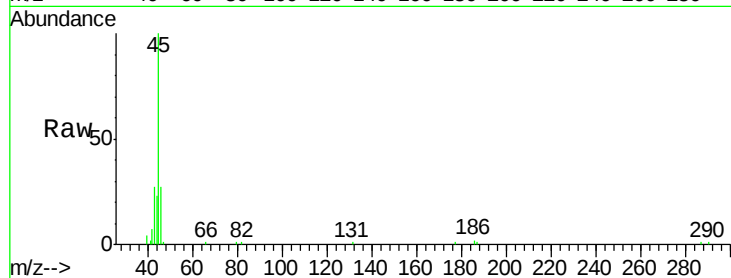
Ion Ratio Lower Upper

45 100

46 37.4 14.8 59.2

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#15

Acetone

Concen: 5.269 ppbv

RT: 3.82 min Scan# 321

Delta R.T. -0.00 min

Lab File: VL034656.D

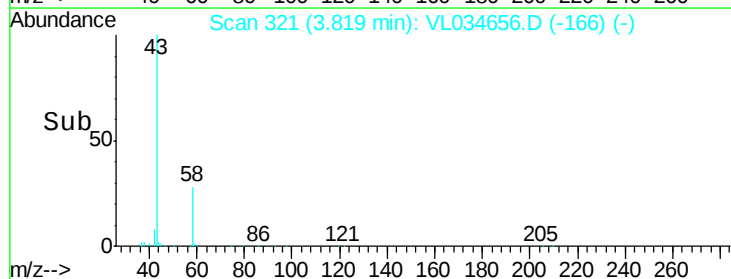
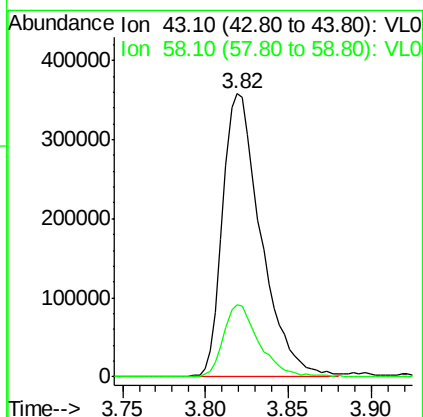
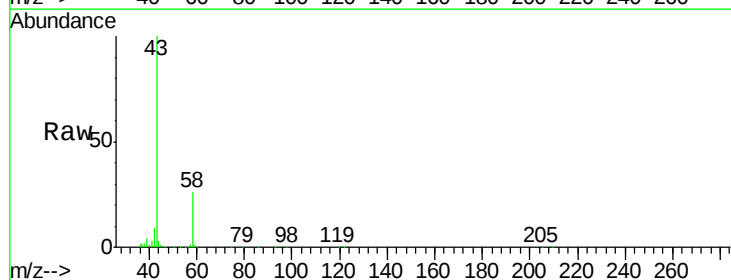
Acq: 19 Feb 2020 22:21

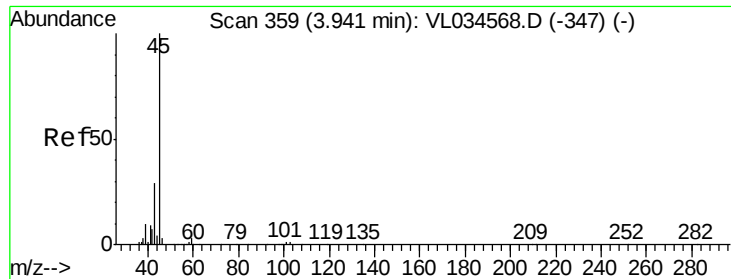
Tgt Ion: 43 Resp: 577636

Ion Ratio Lower Upper

43 100

58 23.9 20.3 30.5





#19

Isopropyl Alcohol

Concen: 0.702 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 45 Resp: 44925

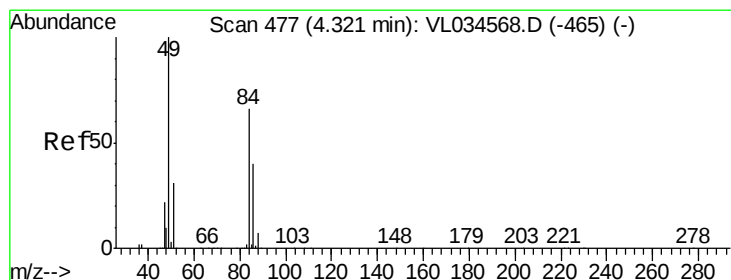
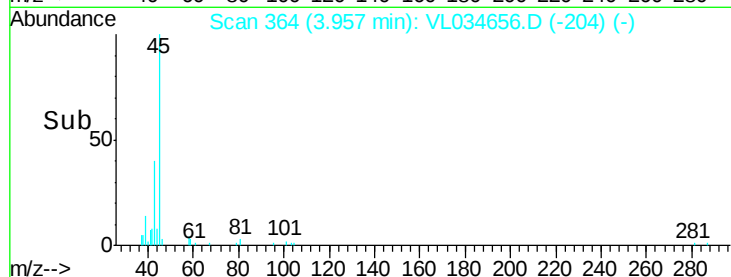
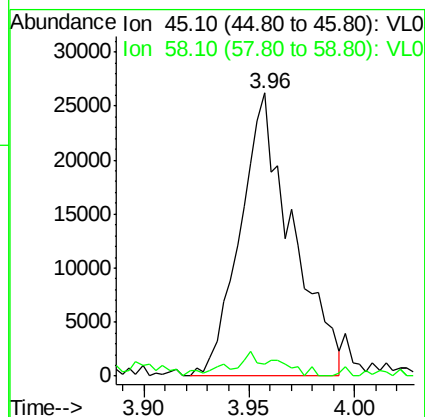
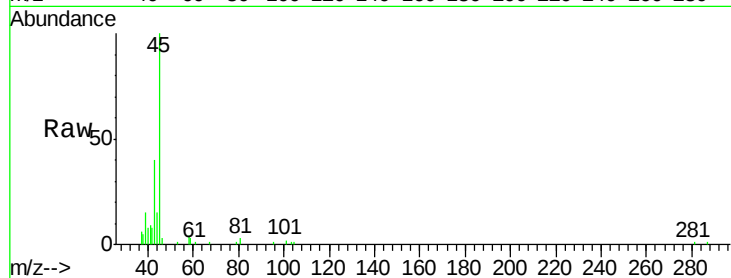
Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

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#20

Methylene Chloride

Concen: 1.535 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.00 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Tgt Ion: 84 Resp: 64064

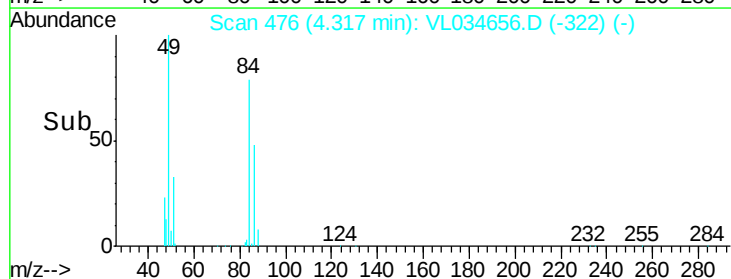
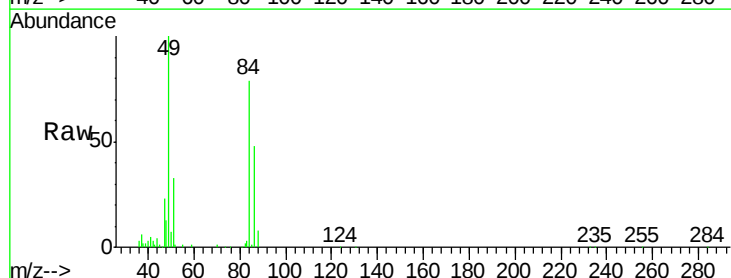
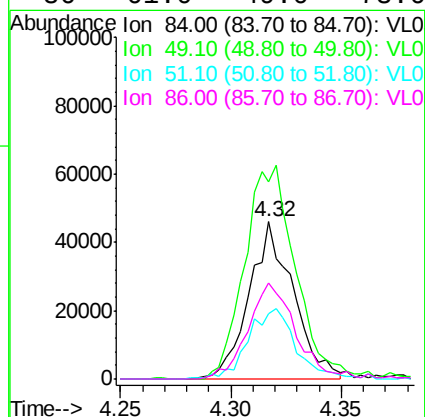
Ion Ratio Lower Upper

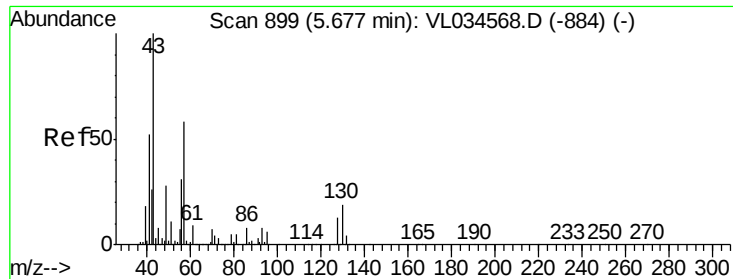
84 100

49 125.4 122.4 183.6

51 41.1 38.6 57.8

86 61.0 49.0 73.6





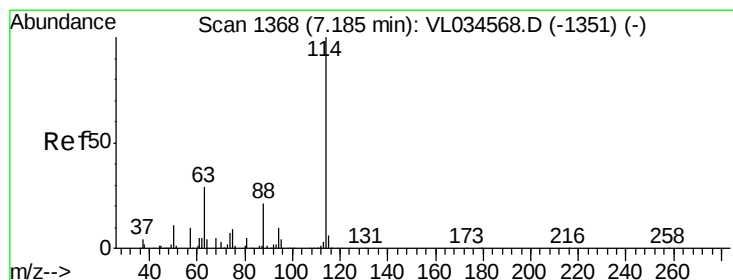
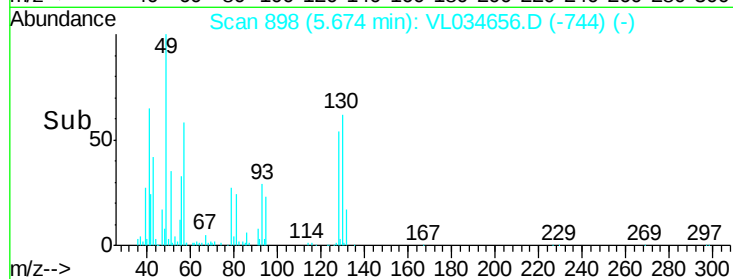
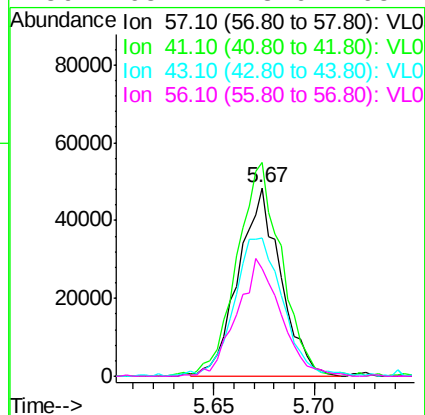
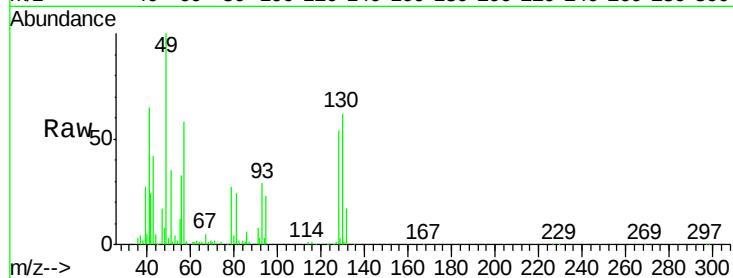
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Hexane
Concen: 0.956 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	119.8	76.2	114.2#
43	85.8	189.9	284.9#
56	65.4	43.6	65.4

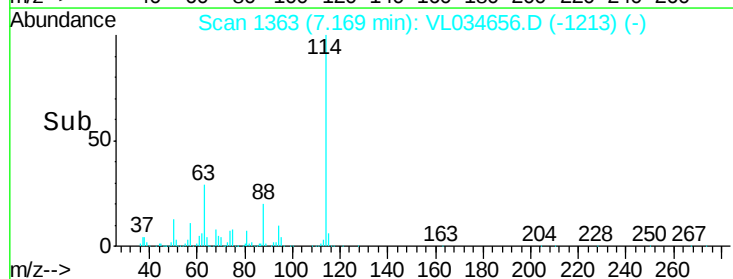
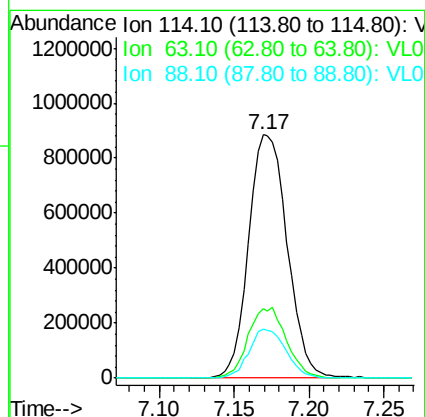
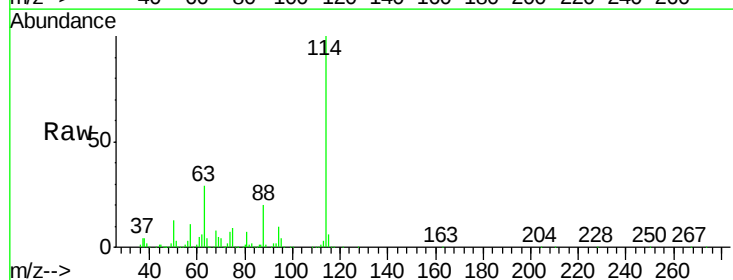
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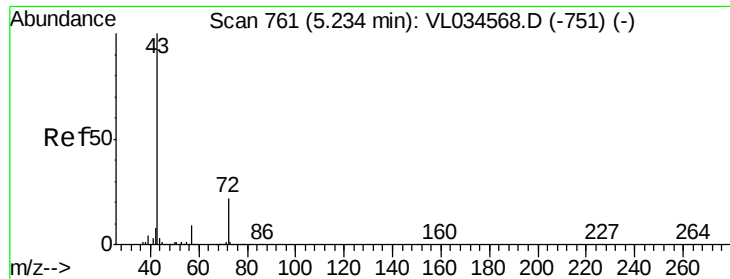
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.02 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.8	24.1	36.1
88	19.5	15.9	23.9





#34

2-Butanone

Concen: 0.157 ppbv m

RT: 5.24 min Scan# 763

Delta R.T. 0.01 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 43 Resp: 18169

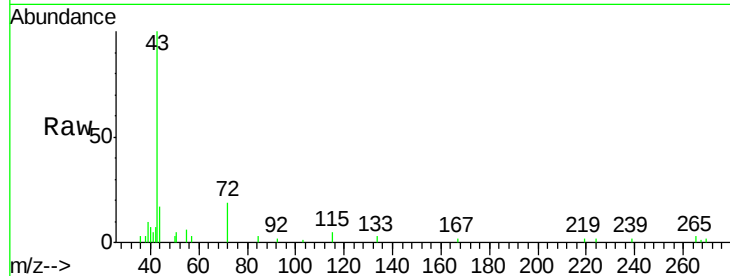
Ion Ratio Lower Upper

43 100

72 0.0 17.2 25.8#

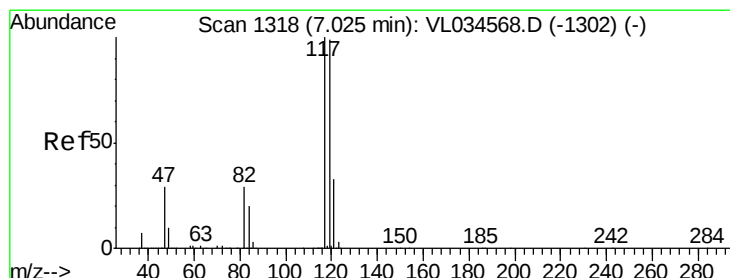
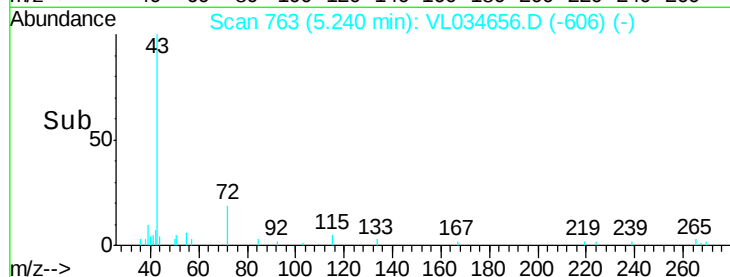
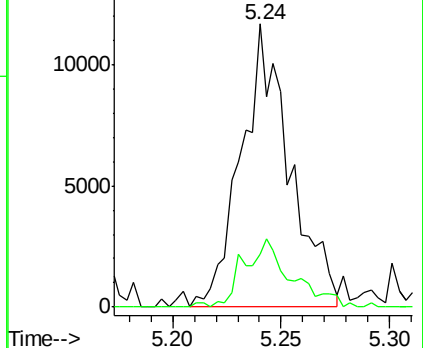
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL034656.D

Acq: 19 Feb 2020 22:21

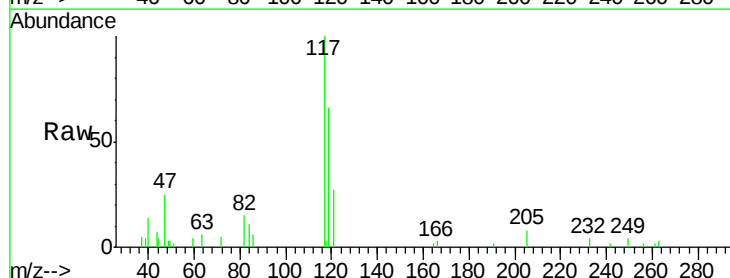
Tgt Ion: 117 Resp: 11843

Ion Ratio Lower Upper

117 100

119 65.7 79.5 119.3#

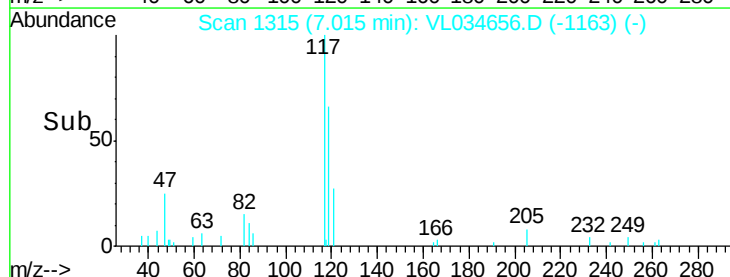
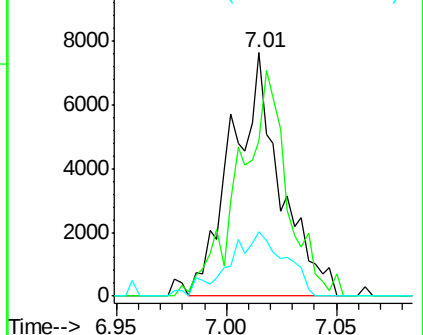
121 27.2 26.2 39.2

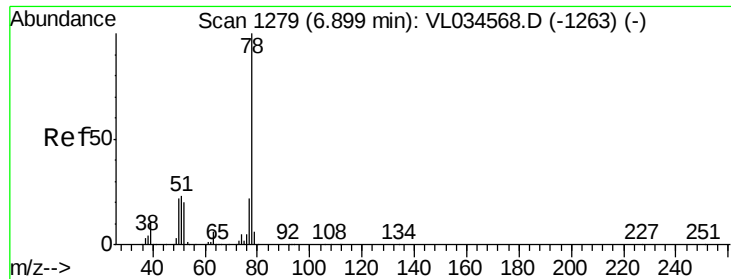


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





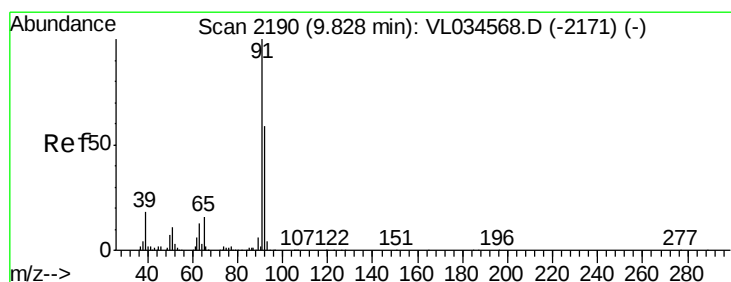
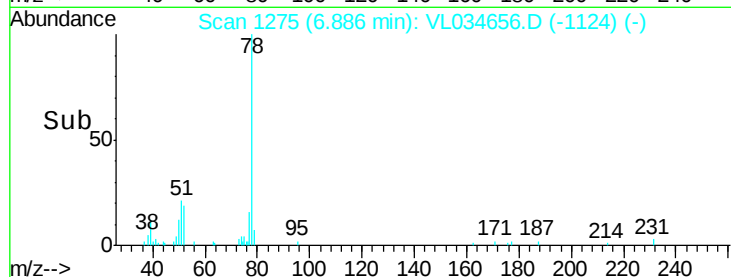
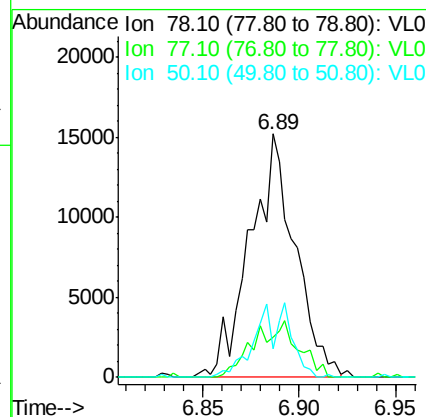
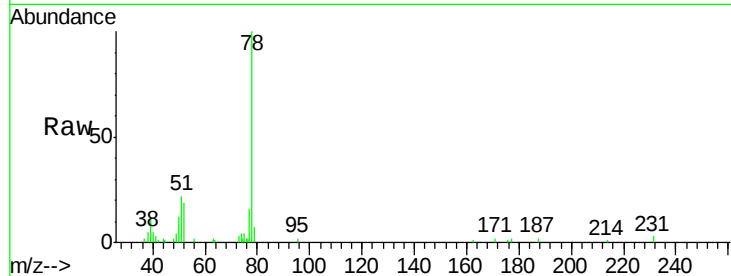
#36
Benzene
Concen: 0.173 ppbv m
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.5	17.3	25.9#
50	11.9	17.4	26.2#

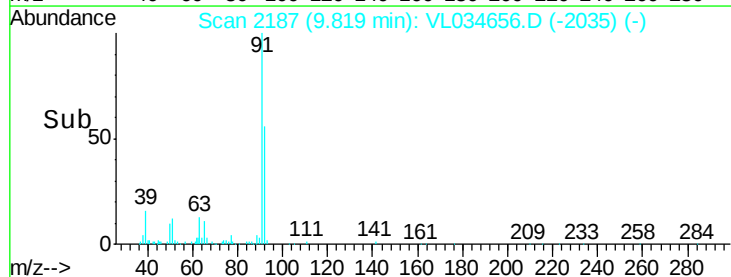
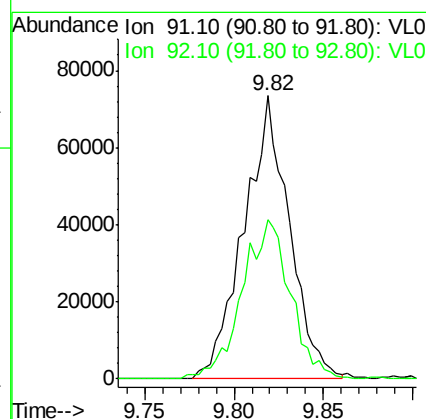
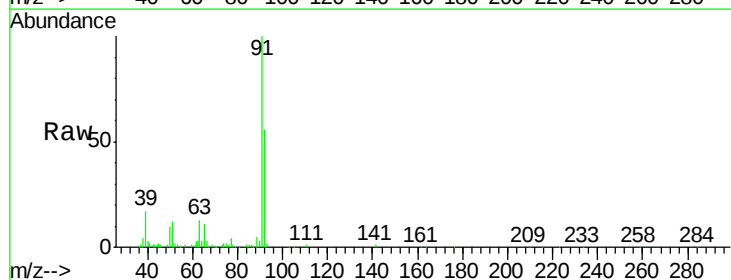
Manual Integrations
APPROVED

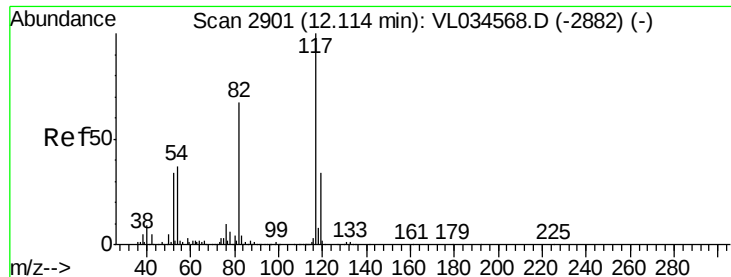
MMDadoda
2/21/2020 3:24:22 PM



#53
Toluene
Concen: 0.840 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.01 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.2	72.2





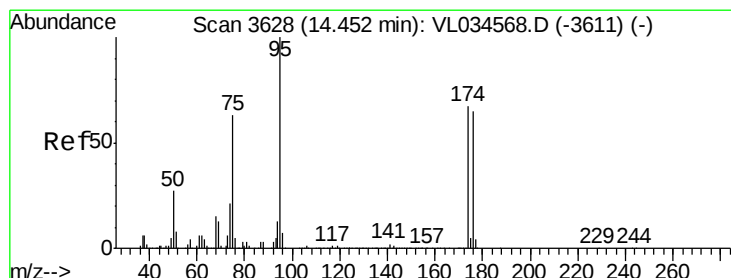
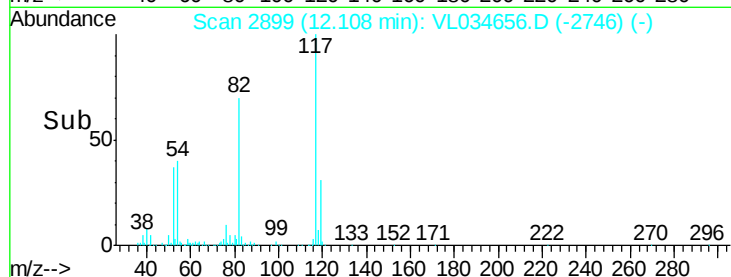
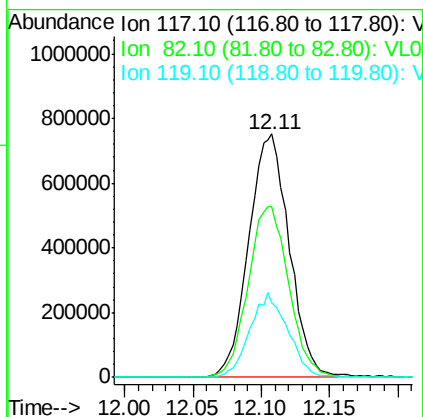
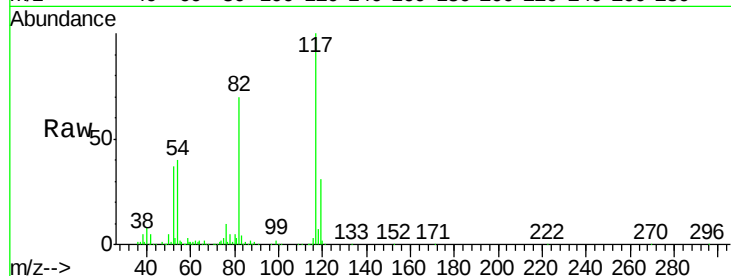
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.1	54.2	81.4
119	33.0	26.1	39.1

Manual Integrations
APPROVED

MMDadoda
2/21/2020 3:24:22 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.308 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. -0.01 min
Lab File: VL034656.D
Acq: 19 Feb 2020 22:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.7	52.3	78.5
175	4.4	3.8	5.6

