

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034143.D
 Acq On : 10 Sep 2019 15:15
 Operator : SY/AP
 Sample : K4775-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

Manual Integrations
 APPROVED

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 9/12/2019 5:16:48 AM

Quant Time: Sep 11 02:27:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	857250	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1614621	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1611736	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.50	95	1382707	10.49	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	76746	1.435	ppbv	97
10) Heptane	8.18	43	18685m	0.135	ppbv	
13) Ethanol	3.61	45	21113	2.016	ppbv	96
15) Acetone	3.84	43	3103719	30.041	ppbv	94
17) tert-Butyl alcohol	4.32	59	44198m	0.589	ppbv	
19) Isopropyl Alcohol	3.98	45	70806	1.015	ppbv #	97
26) Hexane	5.72	57	83997	0.833	ppbv #	40
27) Carbon Disulfide	4.56	76	15327m	0.168	ppbv	
34) 2-Butanone	5.27	43	284147	1.831	ppbv	99
36) Benzene	6.93	78	22498m	0.122	ppbv	
44) 2,2,4-Trimethylpentane	7.92	57	87863	0.258	ppbv	92
50) 4-Methyl-2-Pentanone	8.83	43	24087m	0.102	ppbv	
51) 2-Hexanone	10.21	43	71080m	0.347	ppbv	
52) Tetrachloroethene	11.30	164	30683	0.471	ppbv	92
53) Toluene	9.87	91	76775	0.376	ppbv	98
59) m/p-Xylene	13.05	91	70949m	0.329	ppbv	
60) o-Xylene	13.77	91	25594m	0.119	ppbv	
74) 1,2,4-Trimethylbenzene	16.85	105	36727m	0.151	ppbv	

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

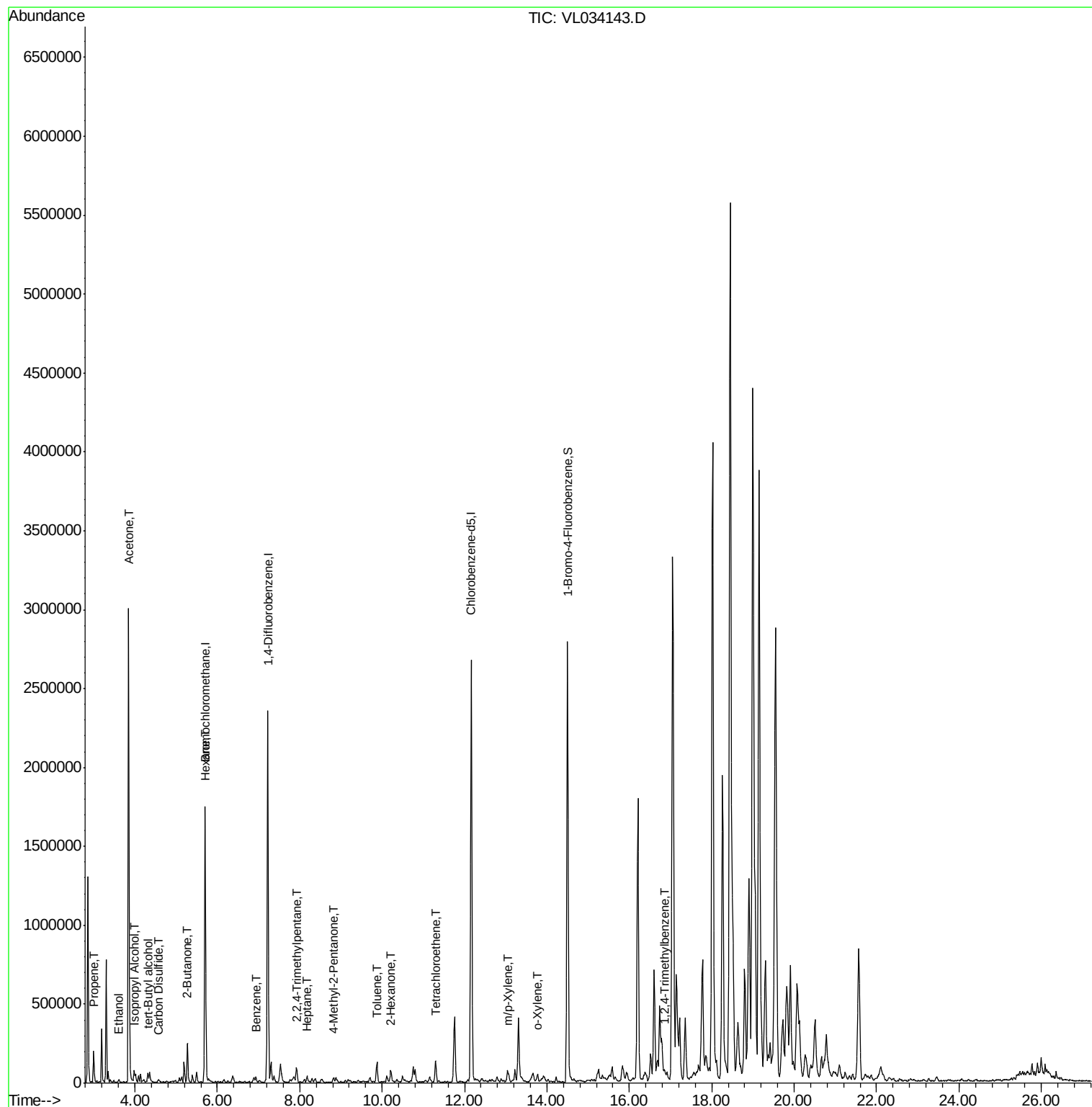
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091019\
Data File : VL034143.D
Acq On : 10 Sep 2019 15:15
Operator : SY/AP
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ALS Vial : 1 Sample Multiplier: 1

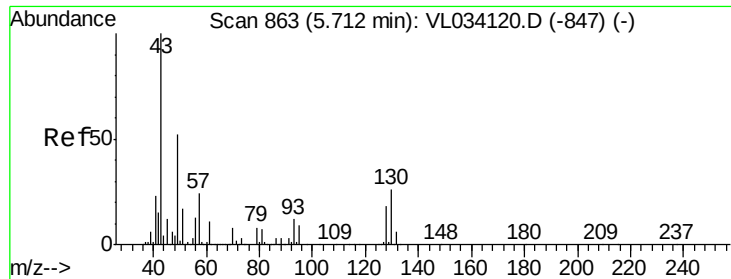
Instrument :
MSVOA_L
ClientSampleId :
SV5DL

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Quant Time: Sep 11 02:27:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

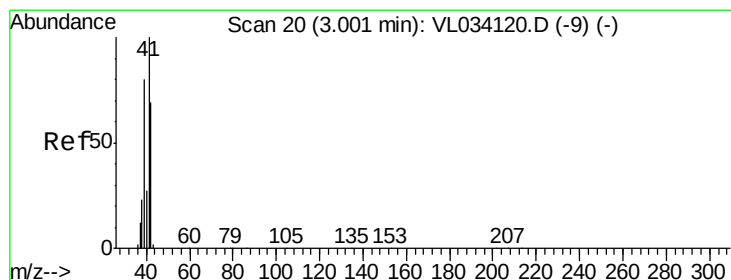
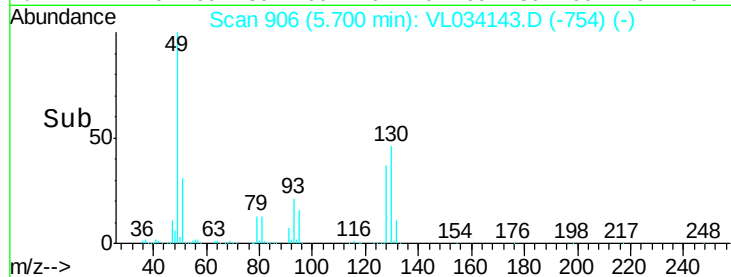
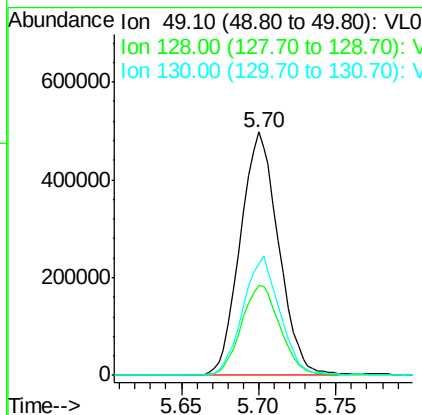
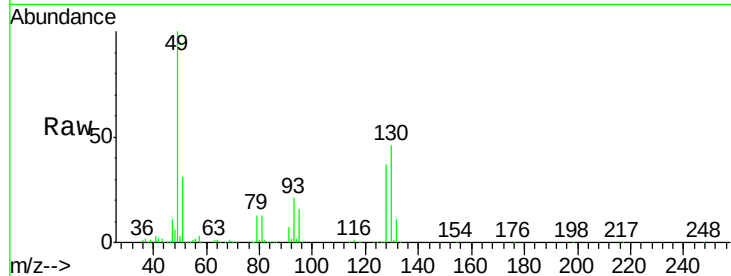
ClientSampleId :

SV5DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	37.7	18.4	55.0
130	47.6	23.5	70.6

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#9

Propene

Concen: 1.435 ppbv

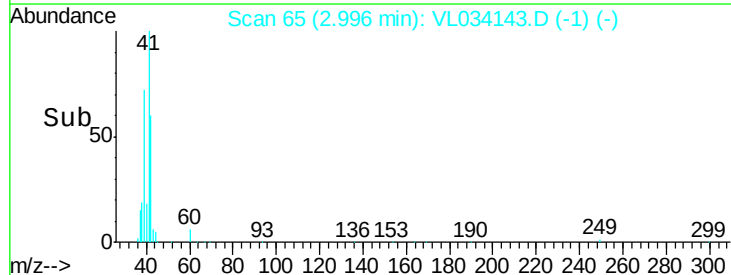
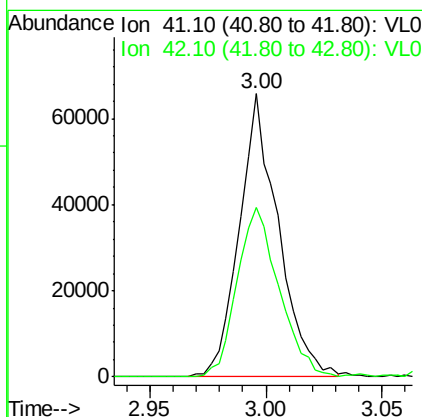
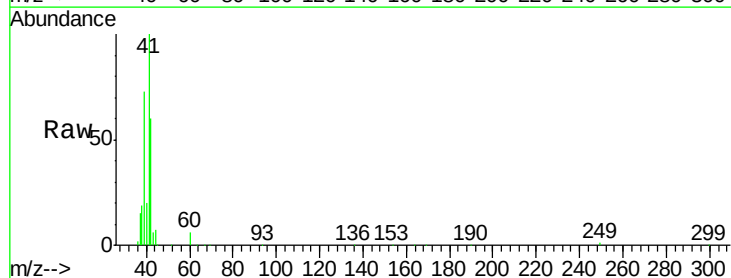
RT: 3.00 min Scan# 65

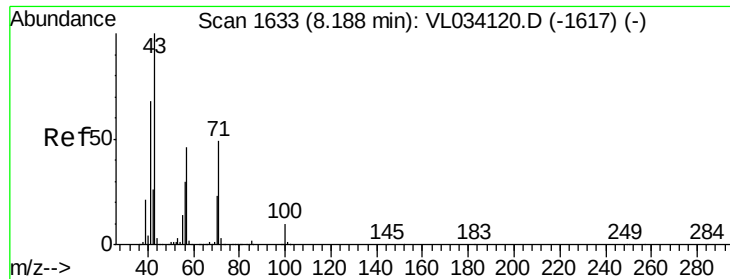
Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Tgt Ion	Ratio	Lower	Upper
41	100		
42	65.6	54.6	81.8





#10

Heptane

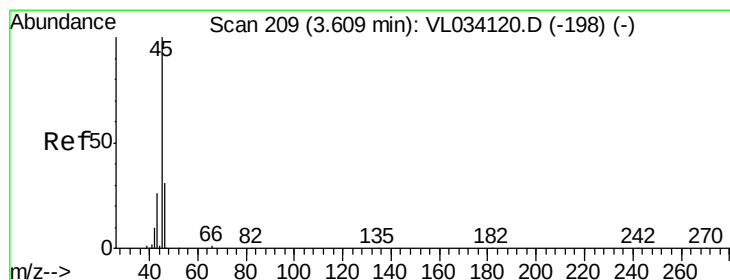
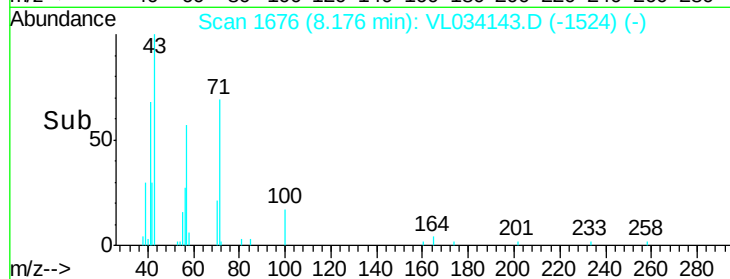
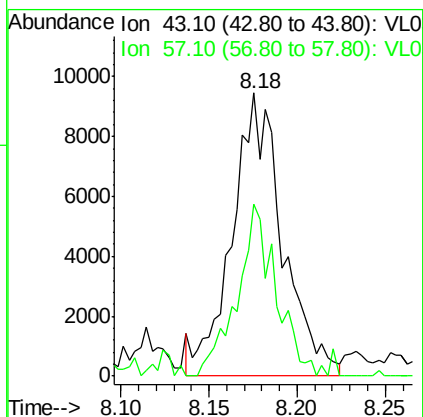
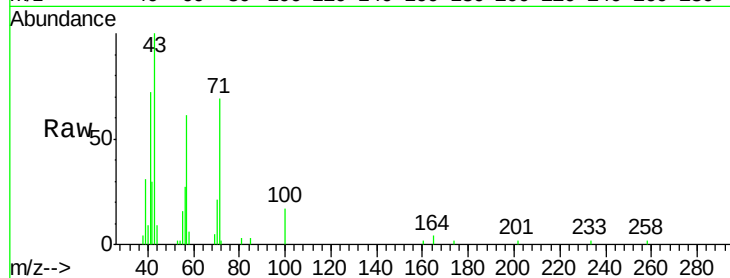
Concen: 0.135 ppbv m
 RT: 8.18 min Scan# 1676
 Delta R.T. -0.01 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Instrument :
 MSVOA_L
 ClientSampled :
 SV5DL

Tot Ion	43	Resp	18685
Ion Ratio	Lower	Upper	
43	100		
57	46.3	38.1	57.1

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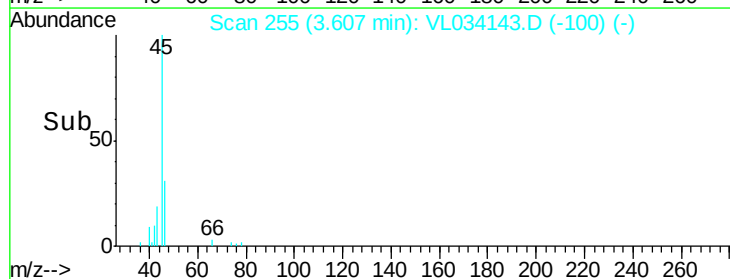
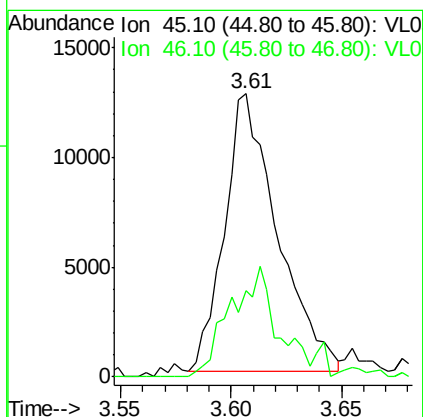
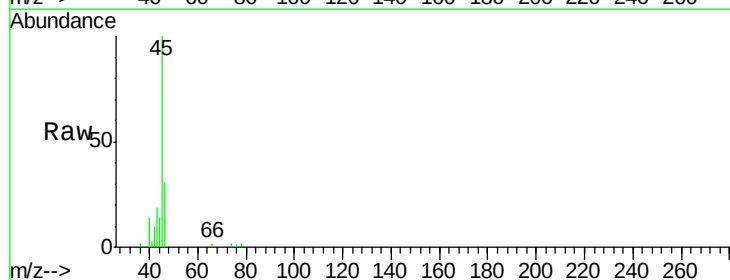


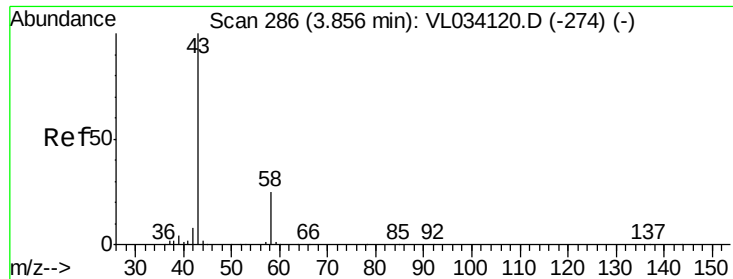
#13

Ethanol

Concen: 2.016 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Tgt Ion	45	Resp	21113
Ion Ratio	Lower	Upper	
45	100		
46	39.7	15.0	60.0





#15

Acetone

Concen: 30.041 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

Tot Ion: 43 Resp: 3103719

Ion Ratio Lower Upper

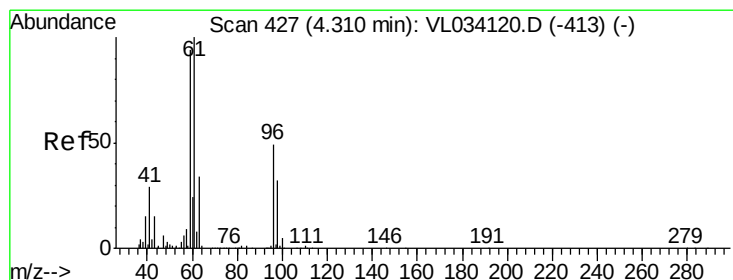
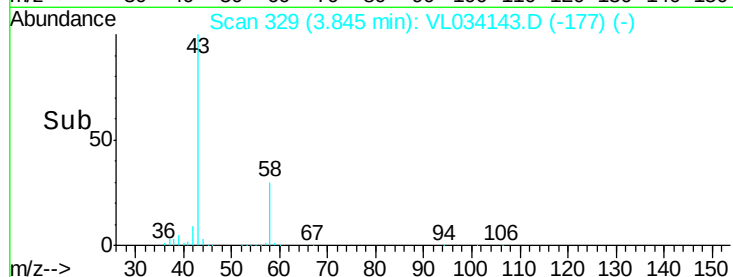
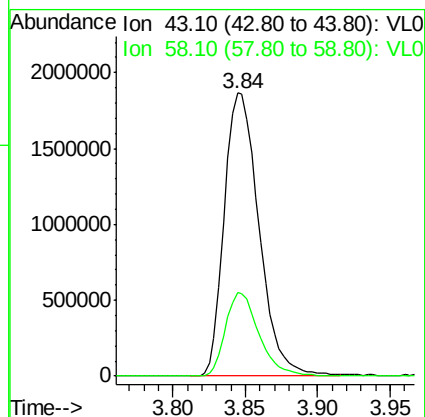
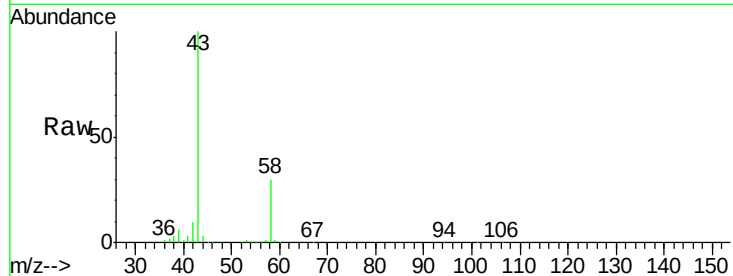
43 100

58 28.7 20.6 30.8

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#17

tert-Butyl alcohol

Concen: 0.589 ppbv m

RT: 4.32 min Scan# 476

Delta R.T. 0.01 min

Lab File: VL034143.D

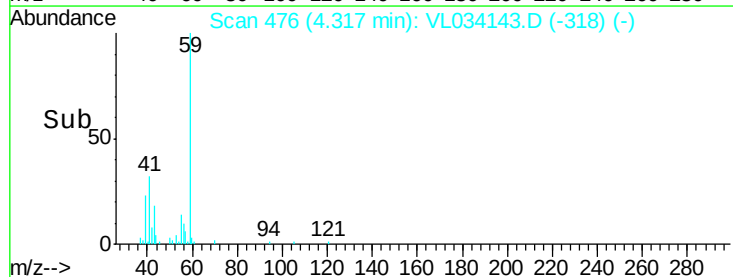
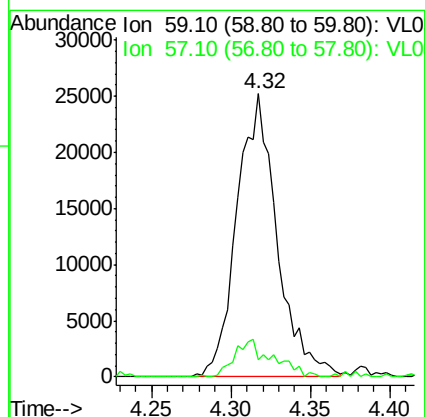
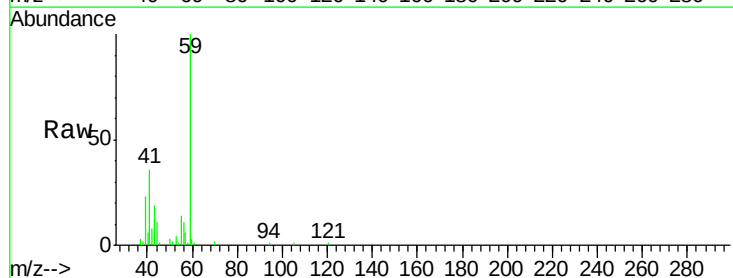
Acq: 10 Sep 2019 15:15

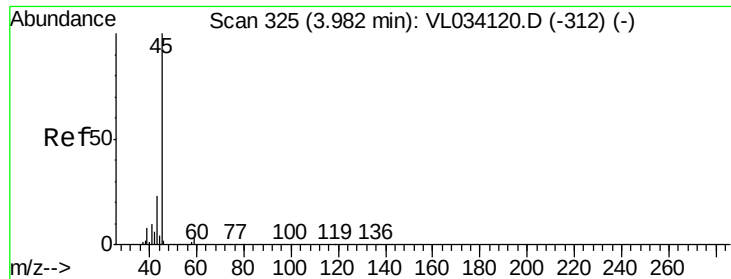
Tgt Ion: 59 Resp: 44198

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 1.015 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.00 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

Tot Ion: 45 Resp: 70806

Ion Ratio Lower Upper

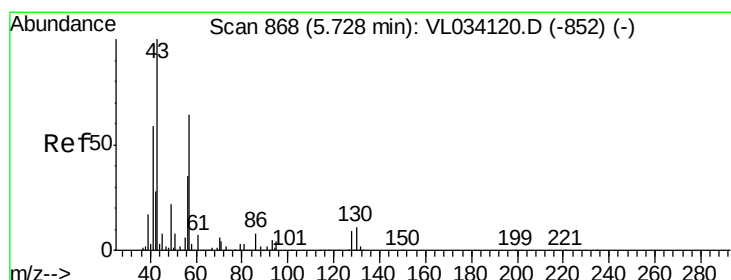
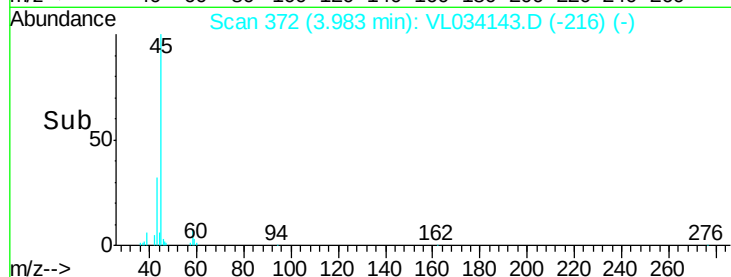
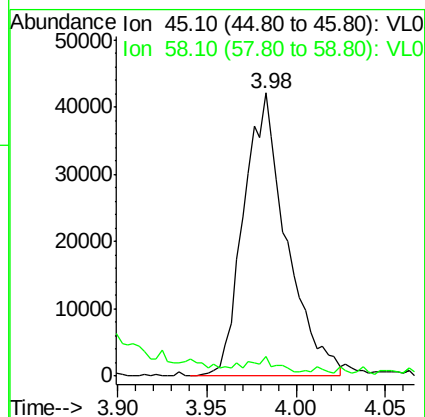
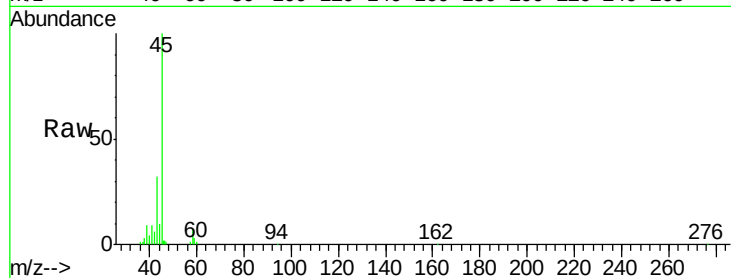
45 100

58 0.0 1.0 1.6#

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#26

Hexane

Concen: 0.833 ppbv

RT: 5.72 min Scan# 911

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Tgt Ion: 57 Resp: 83997

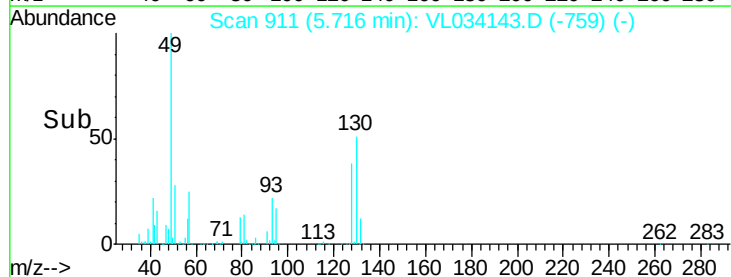
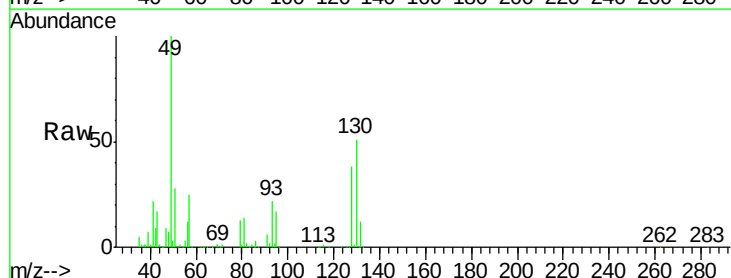
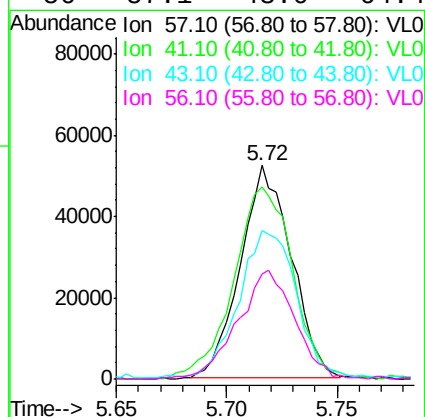
Ion Ratio Lower Upper

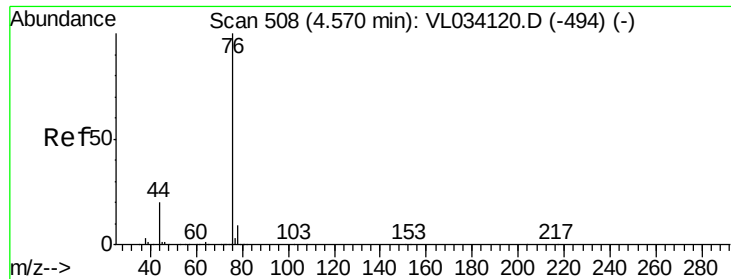
57 100

41 105.2 76.6 115.0

43 80.2 189.2 283.8#

56 57.1 43.0 64.4





#27

Carbon Disulfide

Concen: 0.168 ppbv m

RT: 4.56 min Scan# 553

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

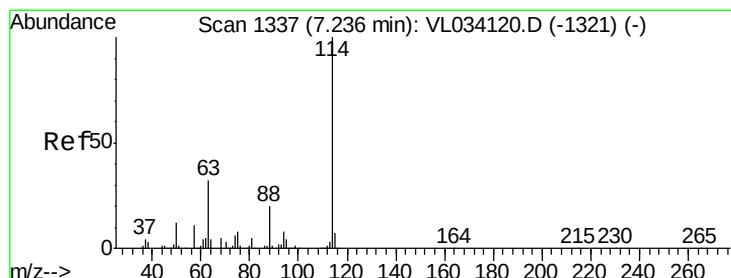
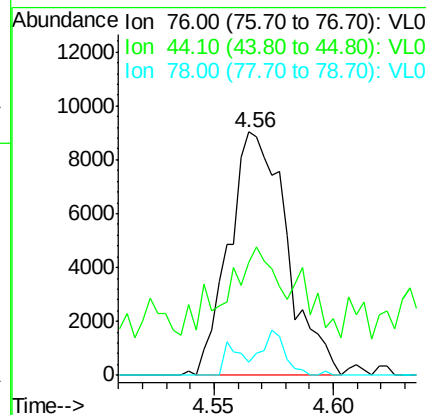
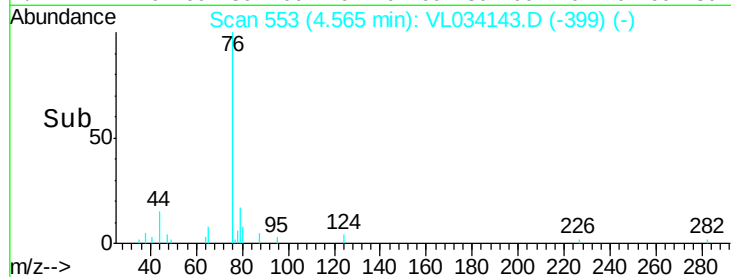
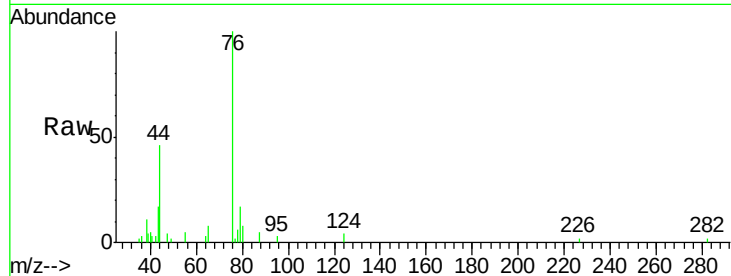
ClientSampled :

SV5DL

Tot Ion:	76	Resp:	15327
Ion Ratio	Lower	Upper	
76	100		
44	48.7	17.6	26.4#
78	12.1	7.3	10.9#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

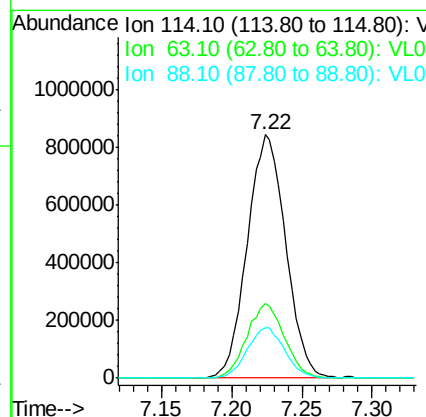
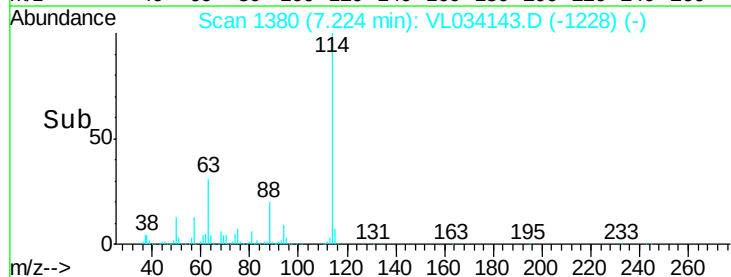
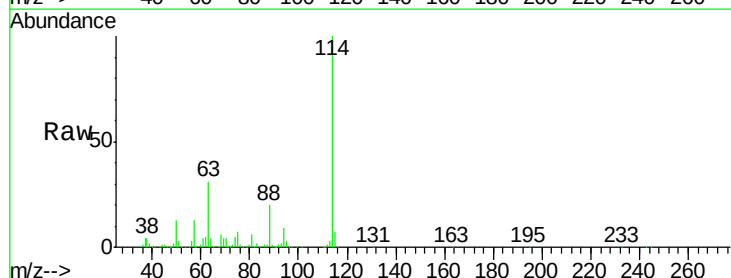
RT: 7.22 min Scan# 1380

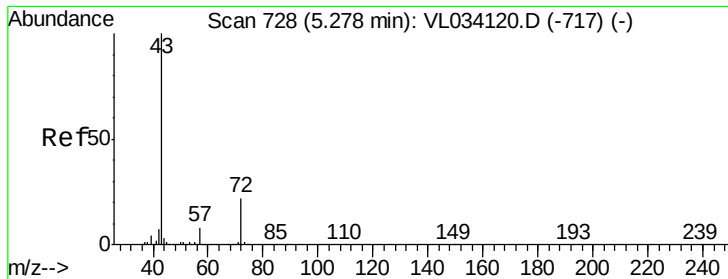
Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Tgt Ion:	114	Resp:	1614621
Ion Ratio	Lower	Upper	
114	100		
63	30.0	25.5	38.3
88	20.3	16.8	25.2





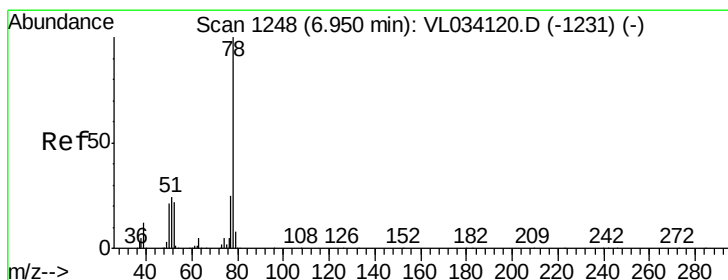
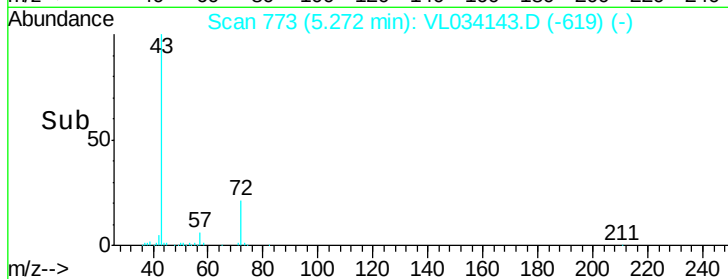
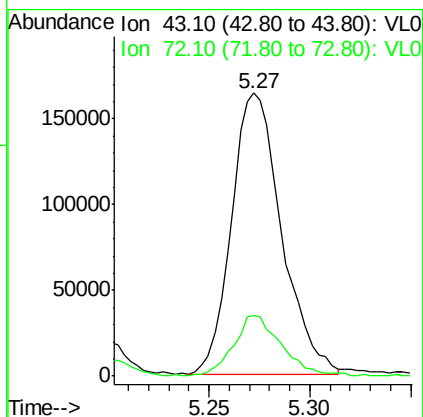
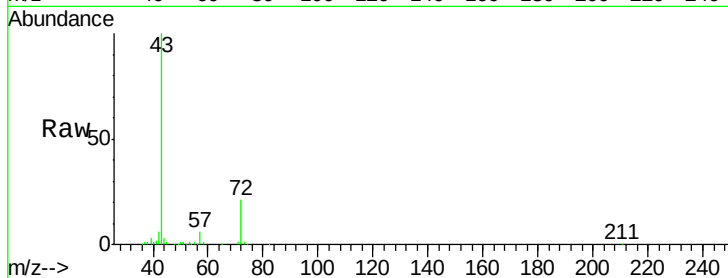
#34
2-Butanone
Concen: 1.831 ppbv
RT: 5.27 min Scan# 773
Delta R.T. -0.01 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Instrument :
MSVOA_L
ClientSampleId :
SV5DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	20.9	16.5	24.7

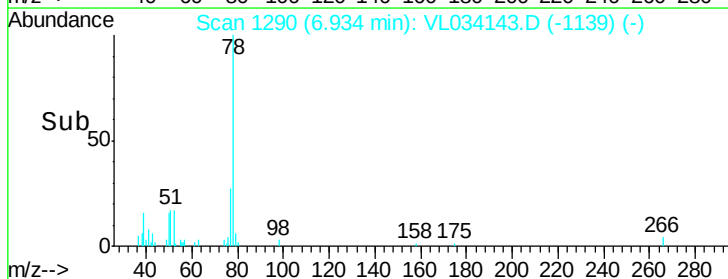
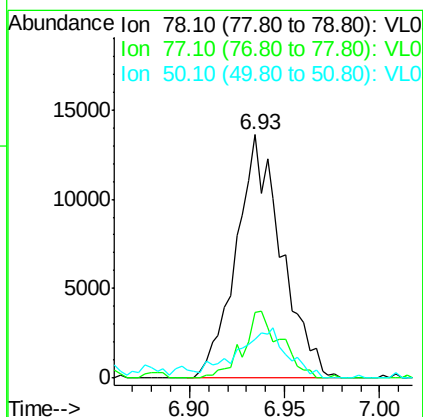
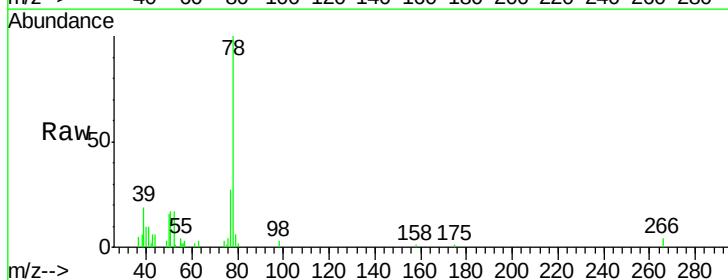
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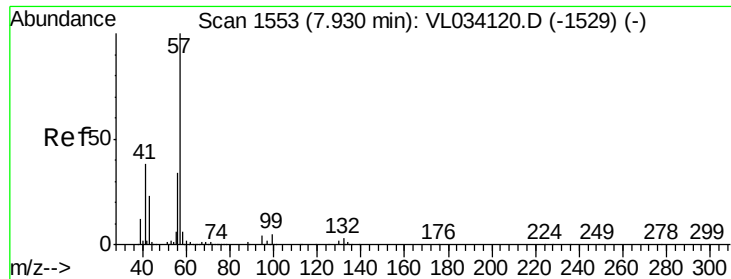
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#36
Benzene
Concen: 0.122 ppbv m
RT: 6.93 min Scan# 1290
Delta R.T. -0.02 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.7	20.3	30.5
50	16.2	16.9	25.3#





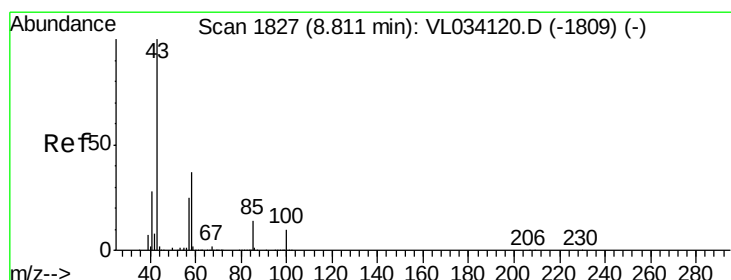
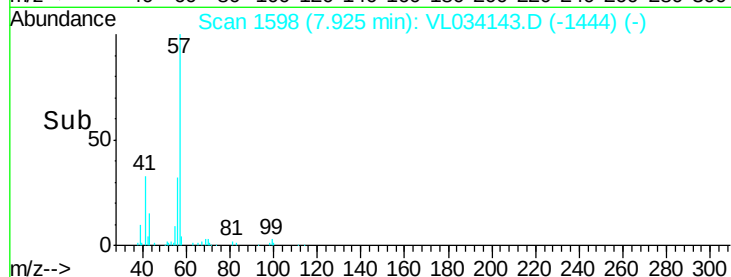
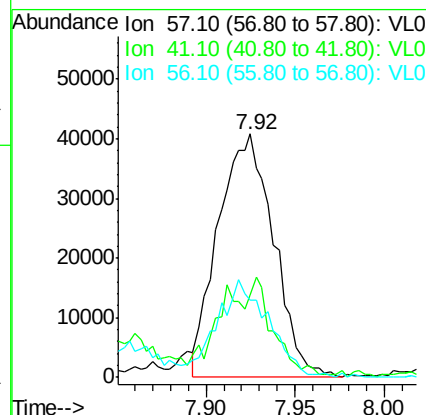
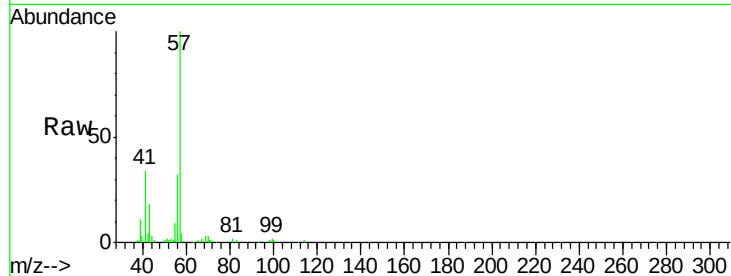
#44
 2,2,4-Trimethylpentane
 Concen: 0.258 ppbv
 RT: 7.92 min Scan# 1598
 Delta R.T. -0.01 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

Tot Ion	57	Resp	87863
Ion Ratio	100	Lower	Upper
57	100		
41	39.8	28.4	42.6
56	37.7	26.3	39.5

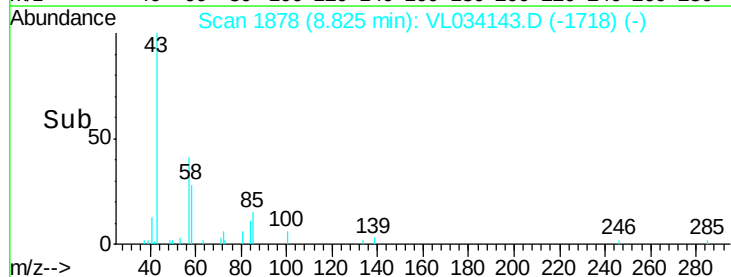
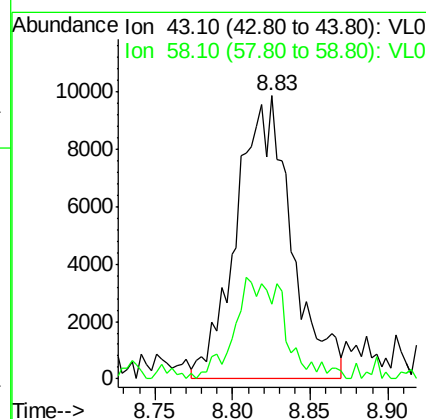
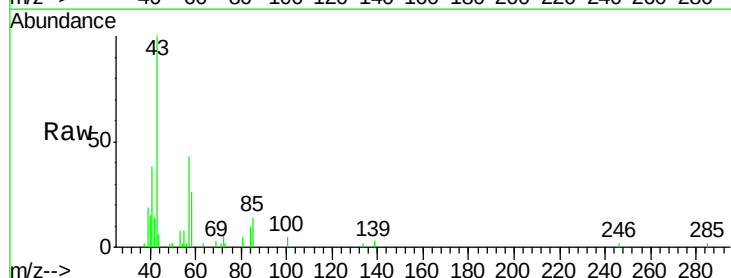
Manual Integrations
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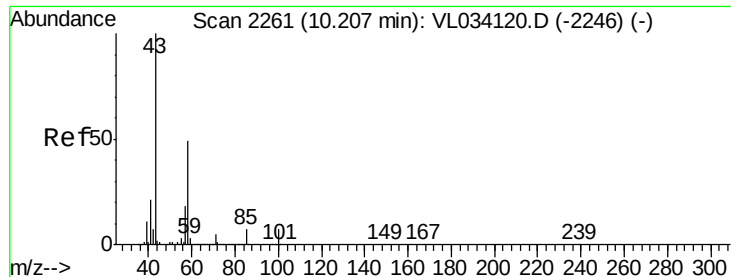
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 9/12/2019 5:16:48 AM



#50
 4-Methyl-2-Pentanone
 Concen: 0.102 ppbv m
 RT: 8.83 min Scan# 1878
 Delta R.T. 0.01 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Tgt Ion	43	Resp	24087
Ion Ratio	100	Lower	Upper
43	100		
58	0.0	28.5	42.7#





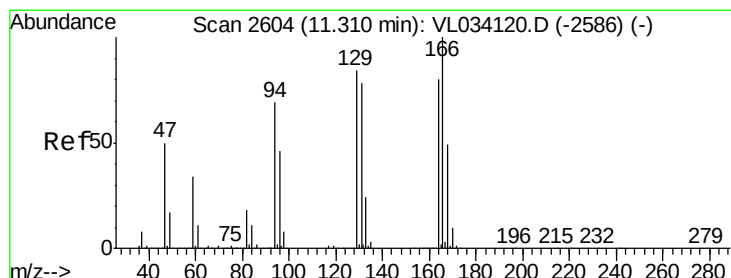
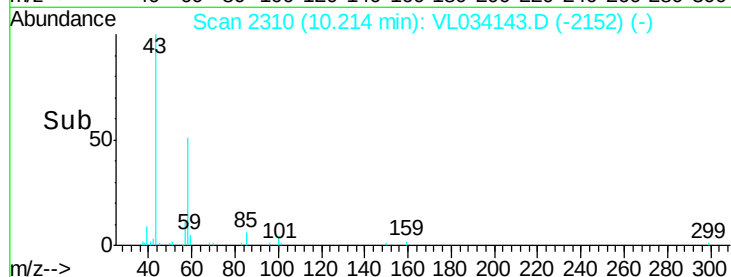
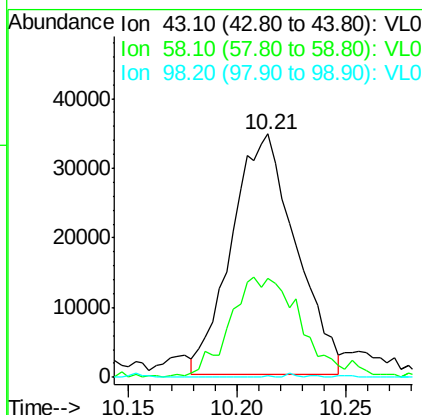
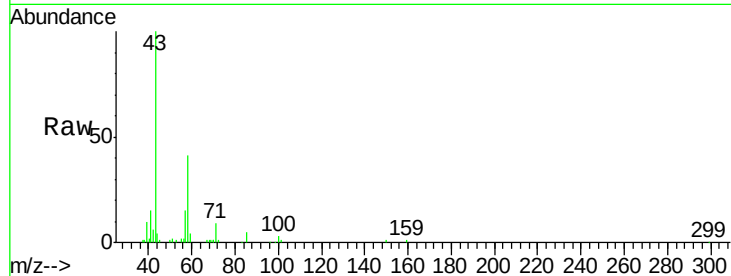
#51
2-Hexanone
Concen: 0.347 ppbv m
RT: 10.21 min Scan# 2310
Delta R.T. 0.01 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Instrument :
MSVOA_L
ClientSampleId :
SV5DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.1	38.2	57.2
98	0.0	0.1	0.1#

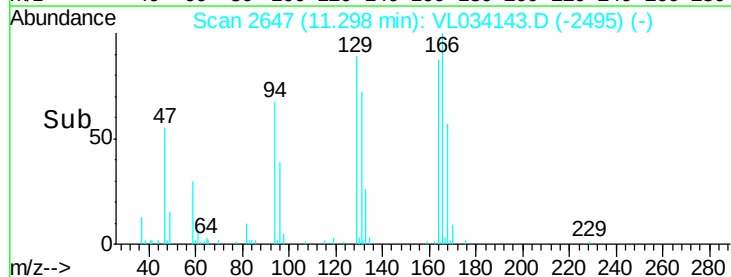
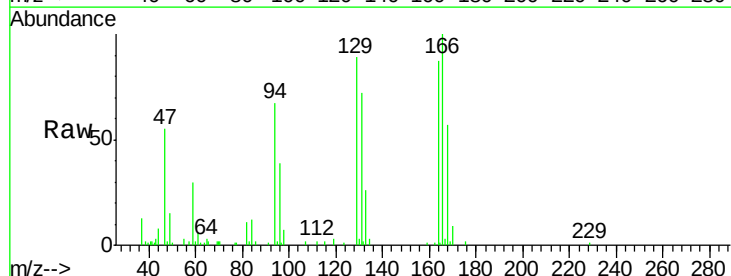
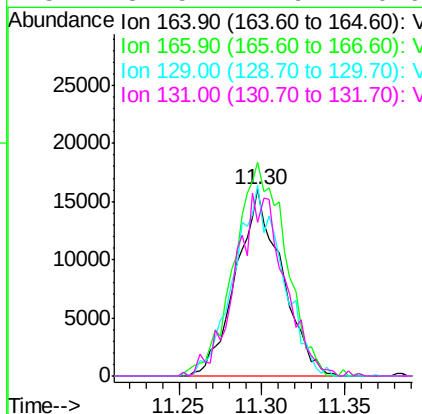
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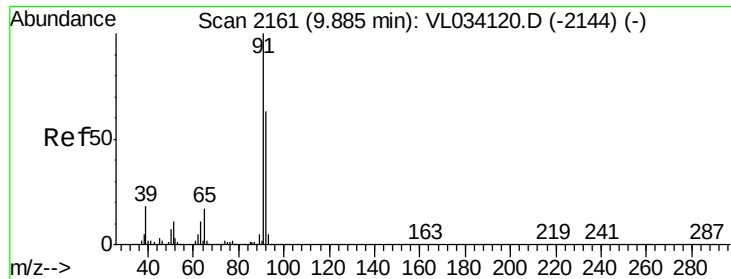
MMDadoda
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#52
Tetrachloroethene
Concen: 0.471 ppbv
RT: 11.30 min Scan# 2647
Delta R.T. -0.01 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	114.6	99.5	149.3
129	102.5	83.6	125.4
131	82.5	77.9	116.9





#53

Toluene

Concen: 0.376 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

Tot Ion: 91 Resp: 76775

Ion Ratio Lower Upper

91 100

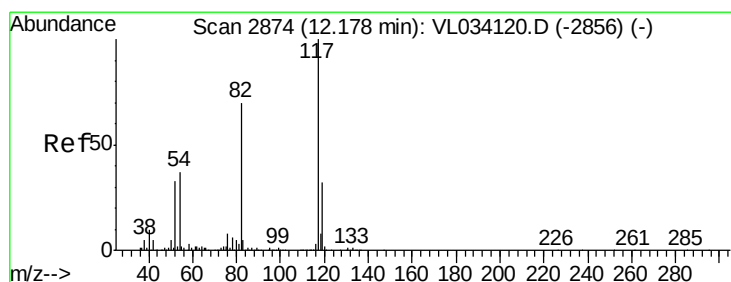
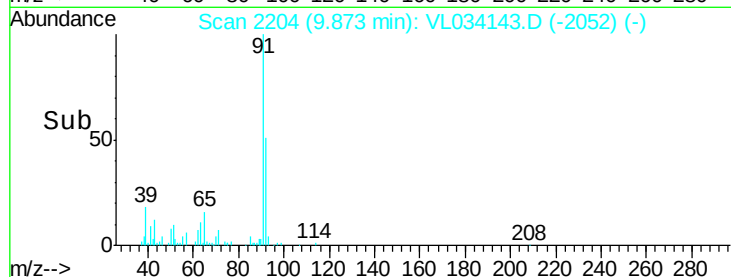
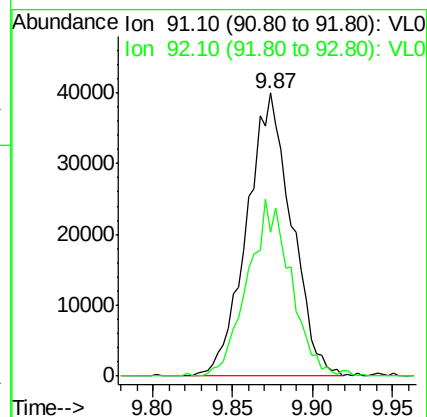
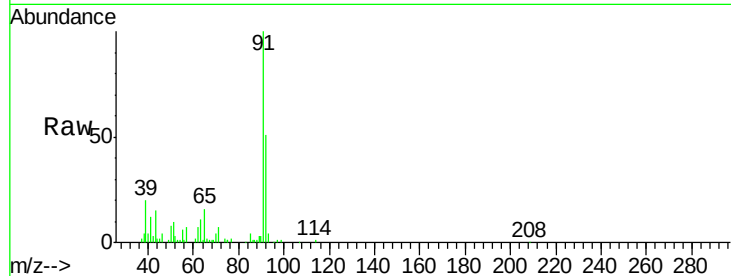
92 60.0 49.3 73.9

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.02 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

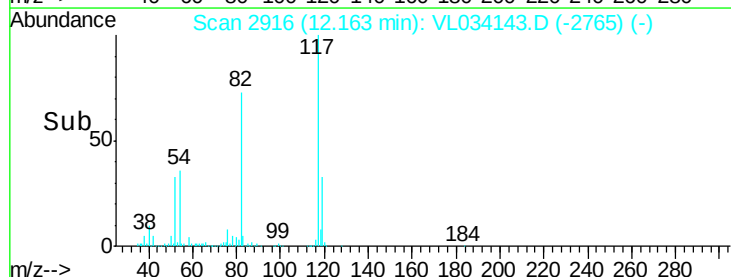
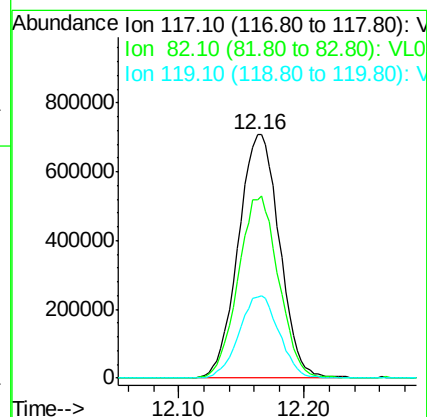
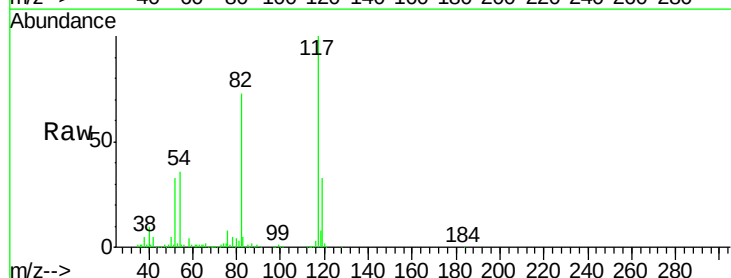
Tgt Ion: 117 Resp: 1611736

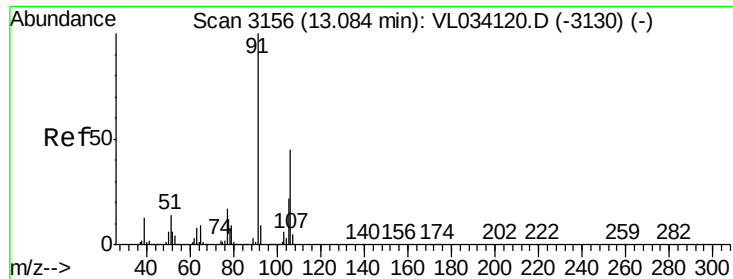
Ion Ratio Lower Upper

117 100

82 73.5 55.8 83.6

119 32.8 43.1 64.7#





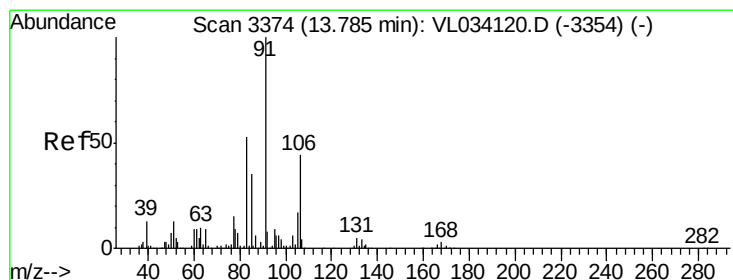
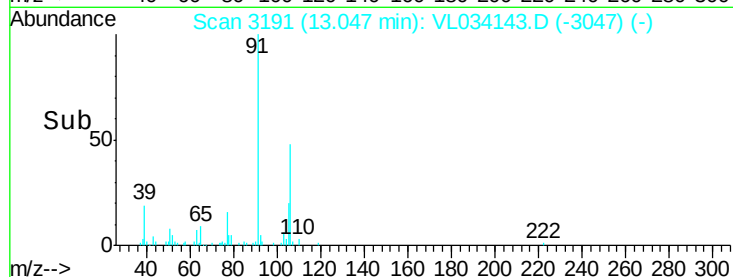
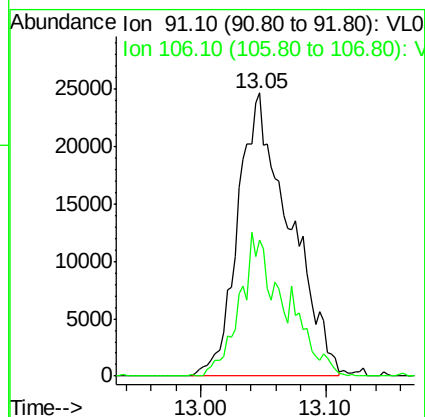
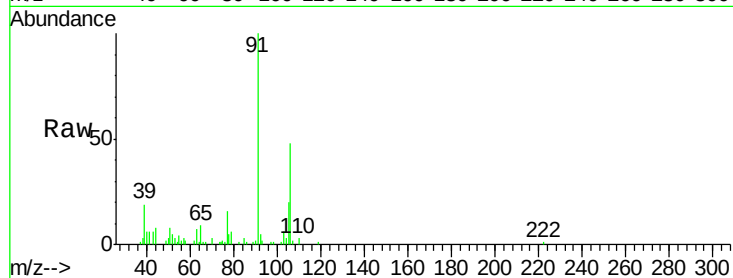
#59
m/p-Xylene
Concen: 0.329 ppbv m
RT: 13.05 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Instrument :
MSVOA_L
ClientSampled :
SV5DL

Tot Ion: 91 Resp: 70949
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

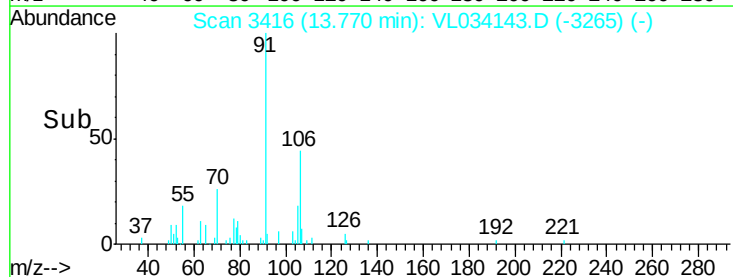
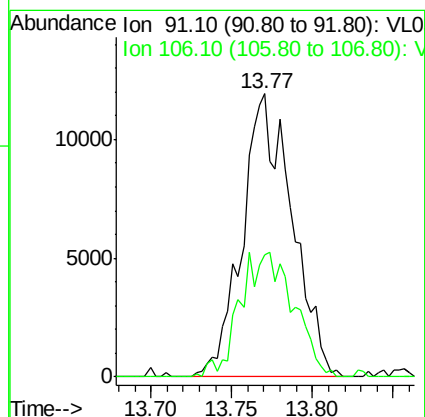
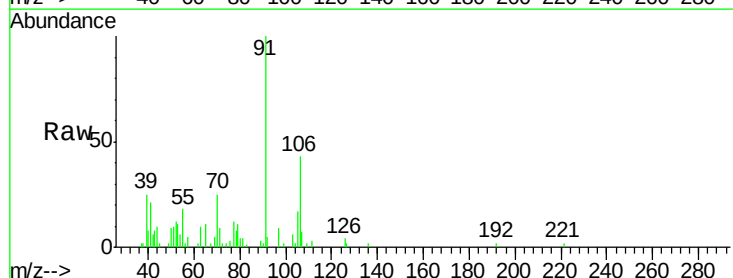
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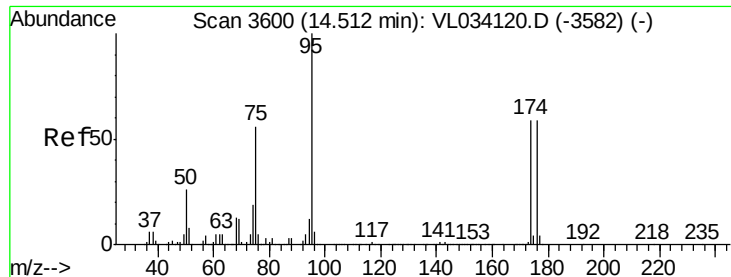
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#60
o-Xylene
Concen: 0.119 ppbv m
RT: 13.77 min Scan# 3416
Delta R.T. -0.02 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Tgt Ion: 91 Resp: 25594
Ion Ratio Lower Upper
91 100
106 47.4 21.4 64.3





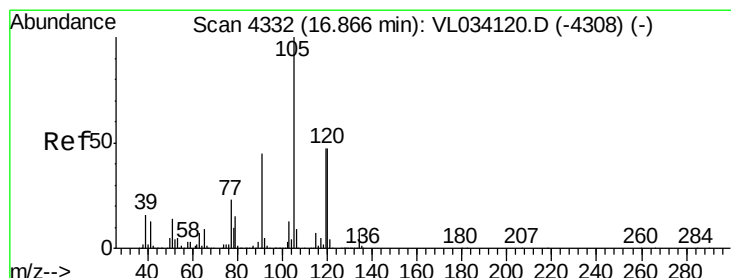
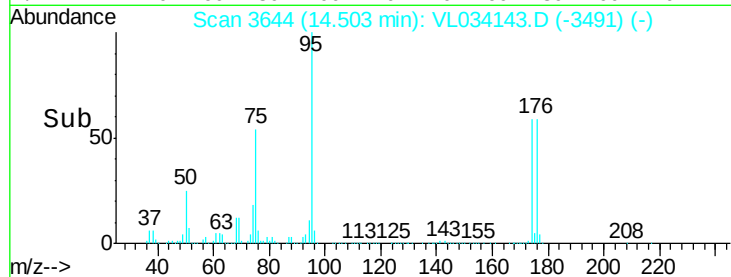
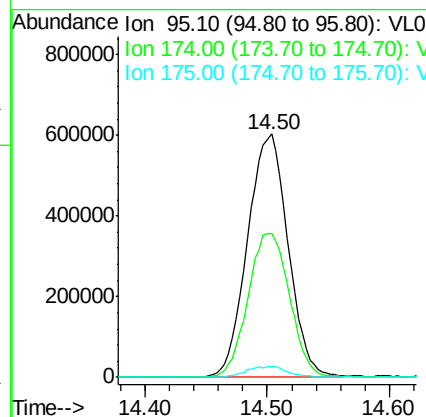
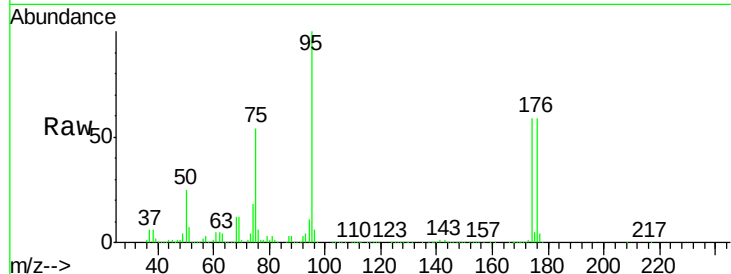
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.494 ppbv
 RT: 14.50 min Scan# 3644
 Delta R.T. -0.01 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Instrument :
 MSVOA_L
 ClientSampled :
 SV5DL

Tot Ion: 95 Resp: 1382707
 Ion Ratio Lower Upper
 95 100
 174 61.3 48.1 72.1
 175 4.6 3.5 5.3

Manual Integrations
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MMDadoda
 9/12/2019 5:16:48 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.151 ppbv m
 RT: 16.85 min Scan# 4375
 Delta R.T. -0.01 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Tgt Ion: 105 Resp: 36727
 Ion Ratio Lower Upper
 105 100
 120 33.6 37.7 56.5#
 91 10.5 36.2 54.2#
 77 12.2 18.5 27.7#

