

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033343.D
 Acq On : 15 Mar 2019 23:03
 Operator : SY/AP
 Sample : K1827-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-6

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:59:47 AM

Quant Time: Mar 16 06:29:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 16 06:29:52 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	685882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1552912	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1731157	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1310135	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	30830	0.256	ppbv	# 86
3) Chlorodifluoromethane	3.01	51	185229m	2.353	ppbv	
4) Chloromethane	3.17	50	25515m	0.599	ppbv	
9) Propene	3.05	41	32748m	0.932	ppbv	
10) Heptane	8.25	43	48047	0.551	ppbv	96
11) Trichlorofluoromethane	4.00	101	32060	0.267	ppbv	86
13) Ethanol	3.65	45	2145039	128.037	ppbv	98
15) Acetone	3.90	43	524014	4.915	ppbv	100
19) Isopropyl Alcohol	4.03	45	705475	13.910	ppbv	99
20) Methylene Chloride	4.41	84	52320	1.505	ppbv	97
25) Ethyl Acetate	5.77	43	206391	1.332	ppbv	# 97
26) Hexane	5.78	57	92868	1.340	ppbv	97
34) 2-Butanone	5.34	43	70021	0.687	ppbv	98
36) Benzene	7.00	78	36162m	0.260	ppbv	
50) 4-Methyl-2-Pentanone	8.88	43	55621	0.386	ppbv	97
53) Toluene	9.95	91	1700907	10.771	ppbv	99
58) Ethyl Benzene	12.87	91	53273	0.218	ppbv	98
59) m/p-Xylene	13.13	91	53384m	0.254	ppbv	

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

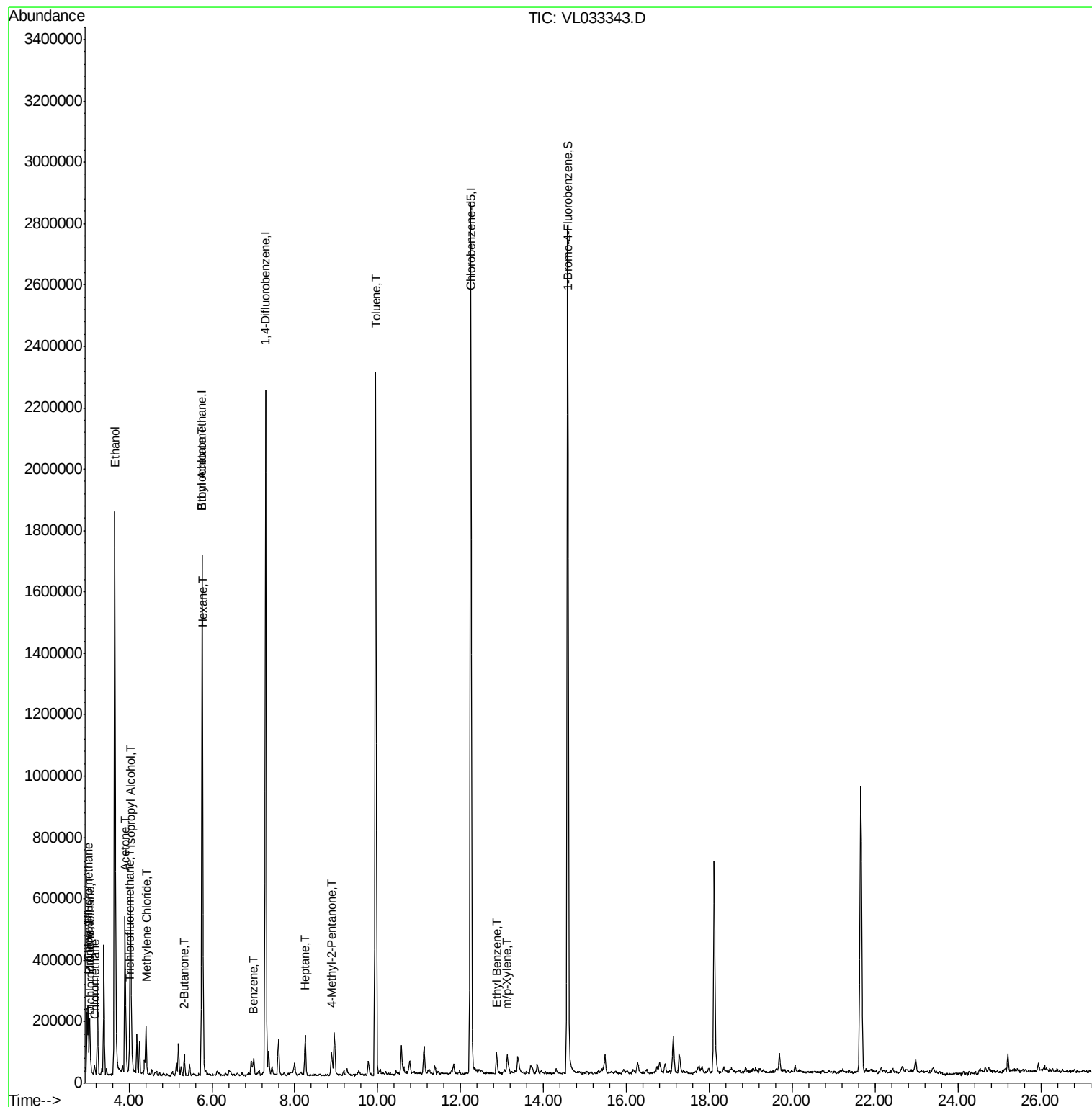
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031519\
Data File : VL033343.D
Acq On : 15 Mar 2019 23:03
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

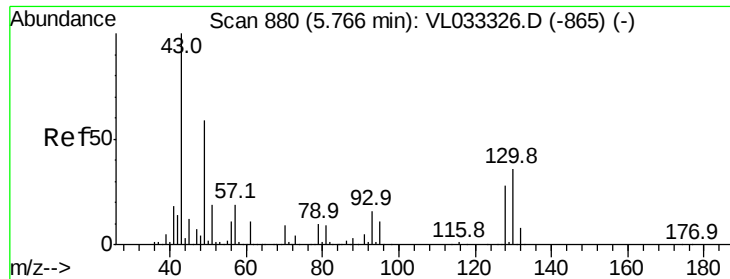
Instrument :
MSVOA_L
ClientSampleId :
A-6

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3/19/2019 9:59:47 AM

Quant Time: Mar 16 06:29:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033343.D

Acq: 15 Mar 2019 23:03

Instrument :

MSVOA_L

ClientSampleId :

A-6

Tot Ion: 49 Resp: 685882

Ion Ratio Lower Upper

49 100

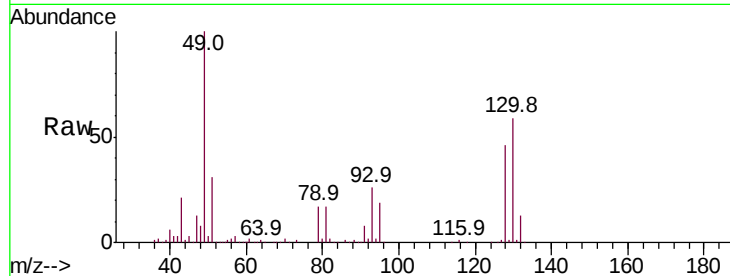
128 45.6 23.5 70.6

130 59.7 30.1 90.3

Manual Integrations
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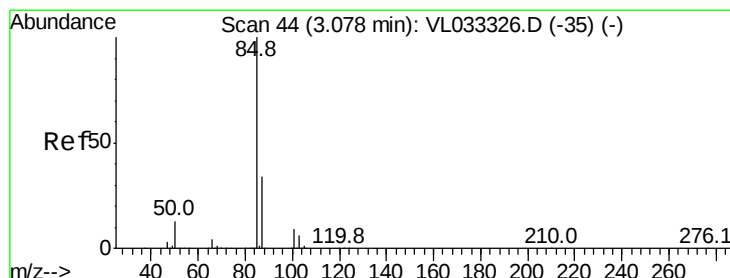
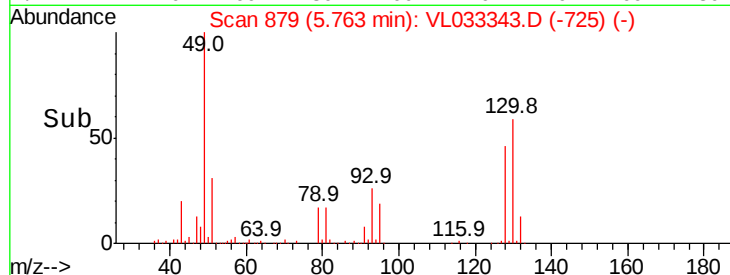
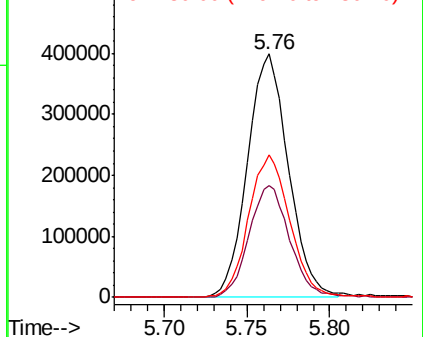
3/19/2019 9:59:47 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.256 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033343.D

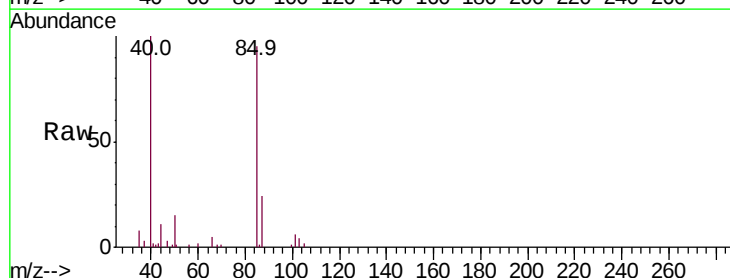
Acq: 15 Mar 2019 23:03

Tgt Ion: 85 Resp: 30830

Ion Ratio Lower Upper

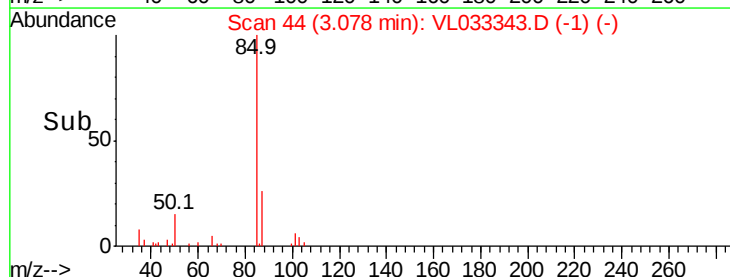
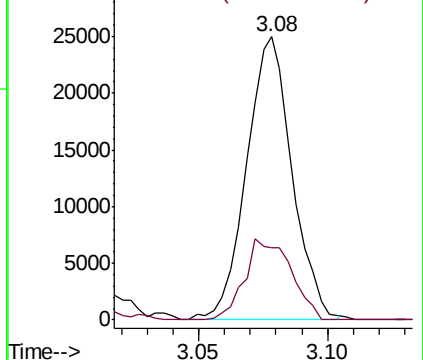
85 100

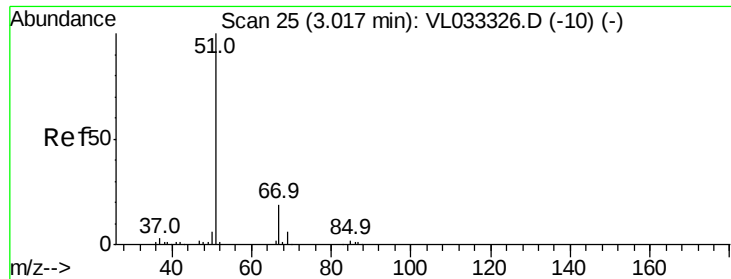
87 25.6 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





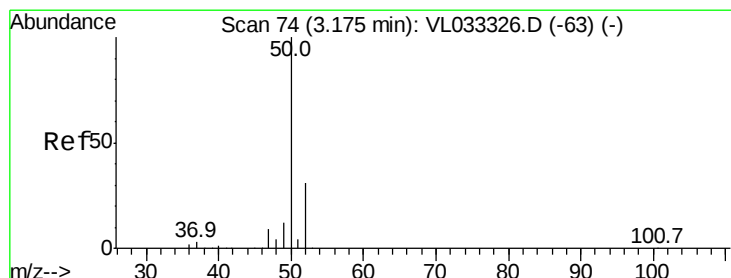
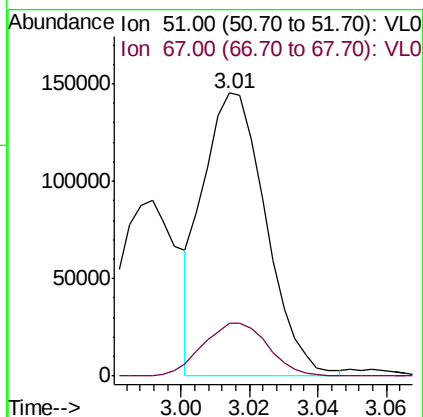
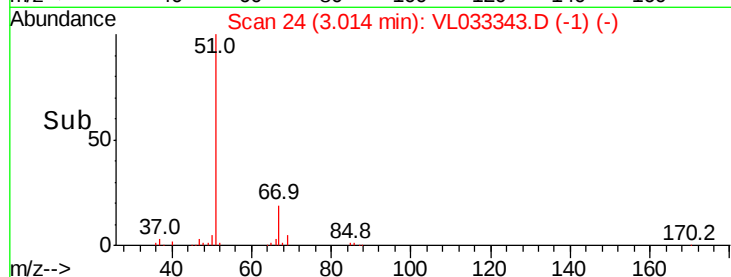
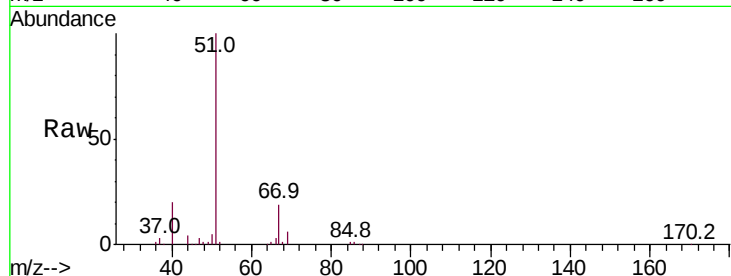
#3
Chlorodifluoromethane
Concen: 2.353 ppbv m
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Instrument :
MSVOA_L
ClientSampleId :
A-6

Tot Ion: 51 Resp: 185229
Ion Ratio Lower Upper
51 100
67 19.8 14.9 22.3

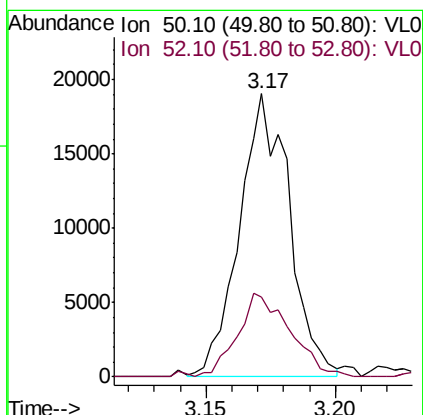
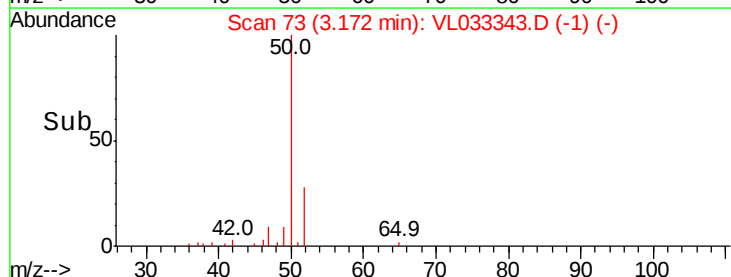
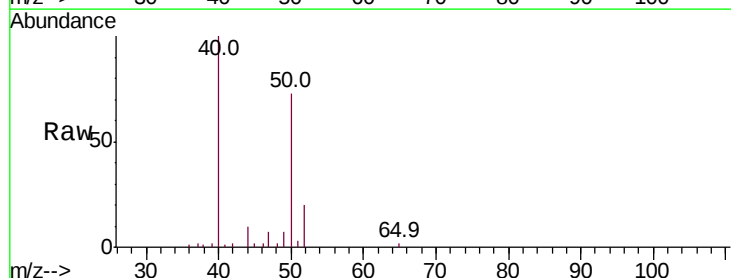
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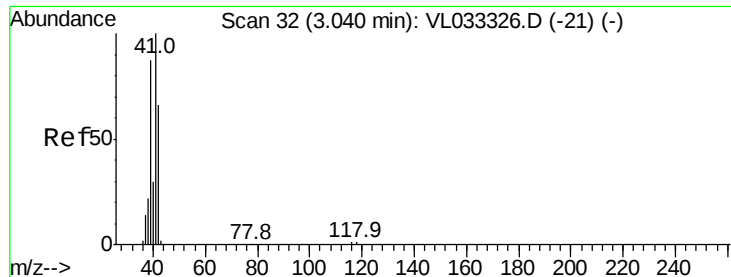
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#4
Chloromethane
Concen: 0.599 ppbv m
RT: 3.17 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Tgt Ion: 50 Resp: 25515
Ion Ratio Lower Upper
50 100
52 28.1 25.0 37.6





#9

Propene

Concen: 0.932 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033343.D

Acq: 15 Mar 2019 23:03

Instrument :

MSVOA_L

ClientSampleId :

A-6

Tot Ion: 41 Resp: 32748

Ion Ratio Lower Upper

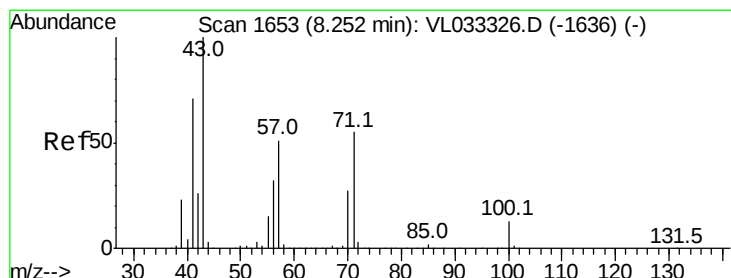
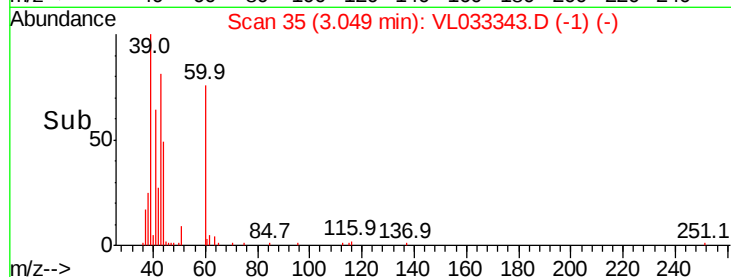
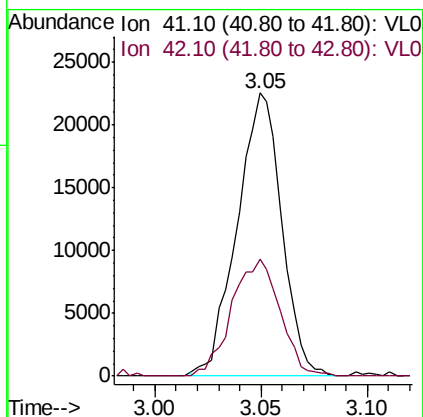
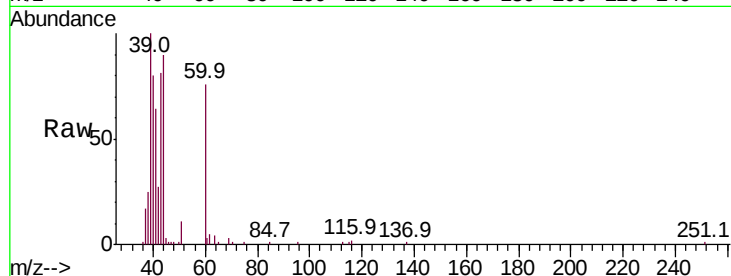
41 100

42 159.4 55.2 82.8#

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#10

Heptane

Concen: 0.551 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033343.D

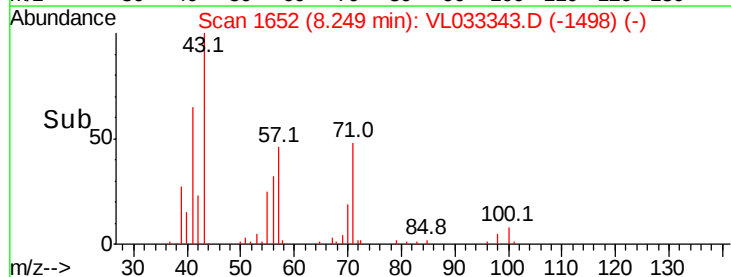
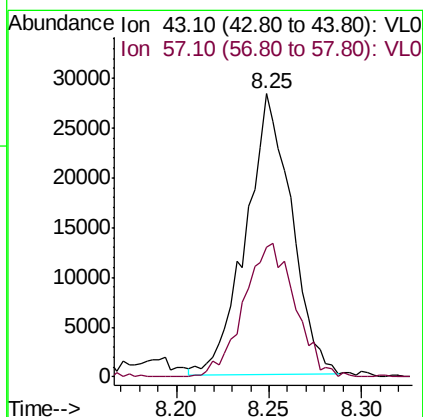
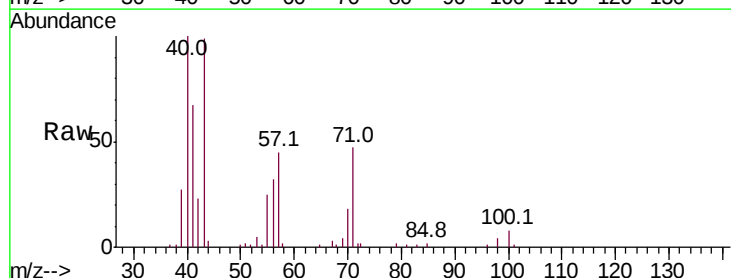
Acq: 15 Mar 2019 23:03

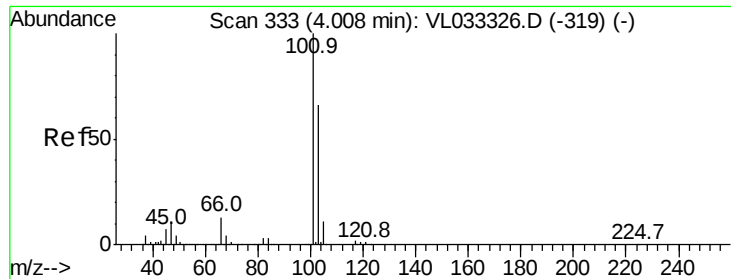
Tgt Ion: 43 Resp: 48047

Ion Ratio Lower Upper

43 100

57 53.6 40.4 60.6





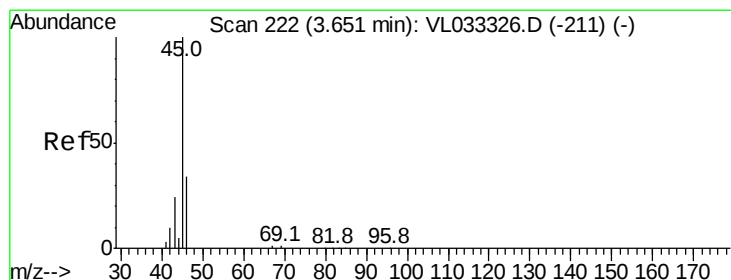
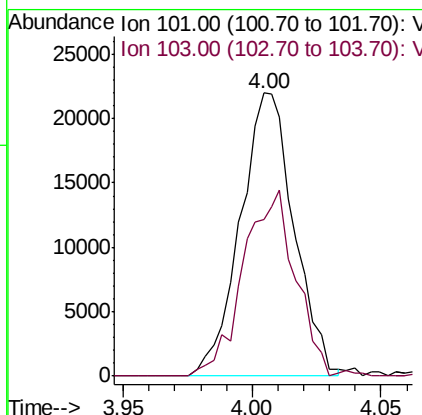
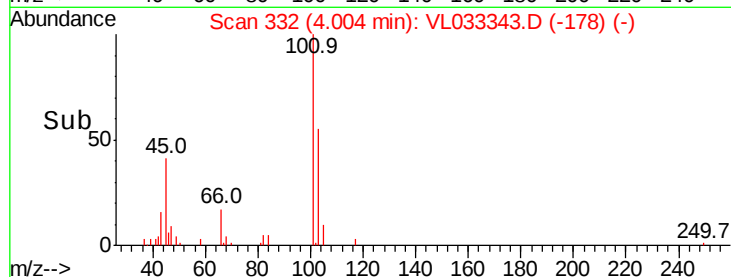
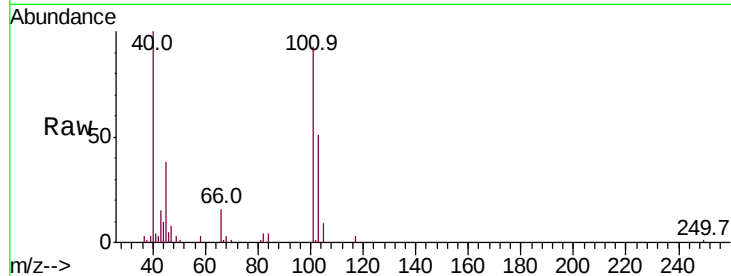
#11
 Trichlorofluoromethane
 Concen: 0.267 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033343.D
 Acq: 15 Mar 2019 23:03

Instrument :
 MSVOA_L
 ClientSampleId :
 A-6

Tot Ion:101 Resp: 32060
 Ion Ratio Lower Upper
 101 100
 103 54.6 52.9 79.3

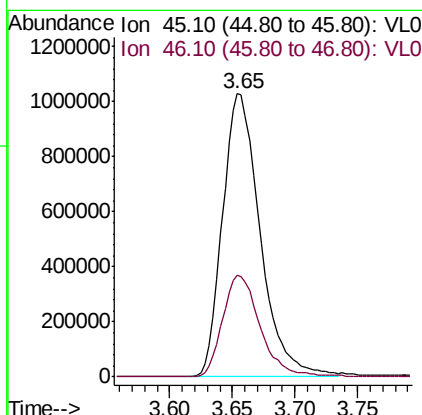
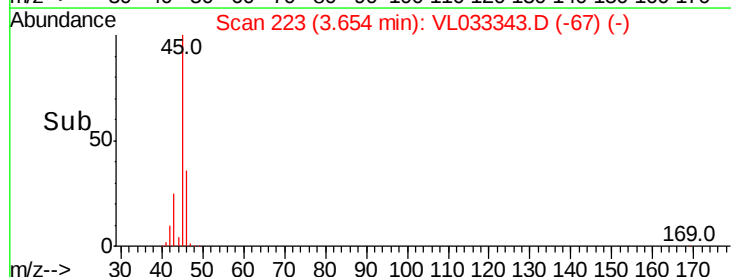
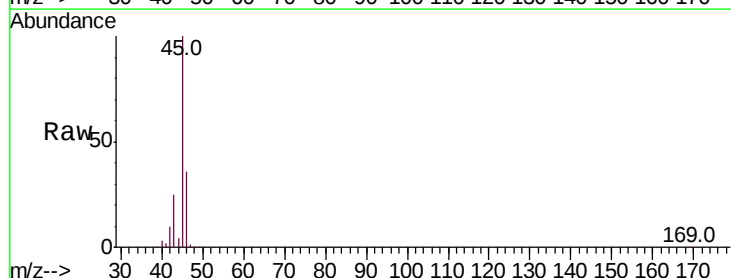
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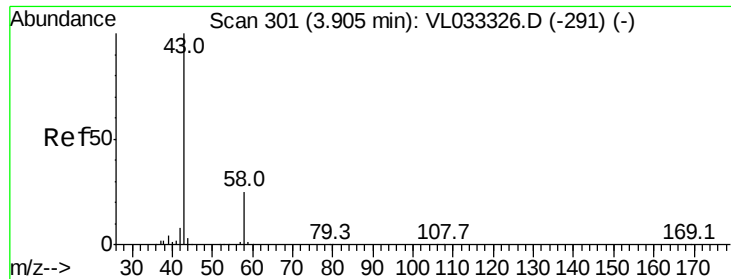
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#13
 Ethanol
 Concen: 128.037 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VL033343.D
 Acq: 15 Mar 2019 23:03

Tgt Ion: 45 Resp: 2145039
 Ion Ratio Lower Upper
 45 100
 46 36.2 14.9 59.7





#15

Acetone

Concen: 4.915 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033343.D

Acq: 15 Mar 2019 23:03

Instrument :

MSVOA_L

ClientSampleId :

A-6

Tot Ion: 43 Resp: 524014

Ion Ratio Lower Upper

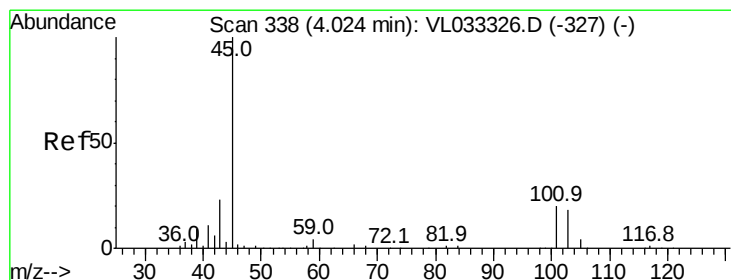
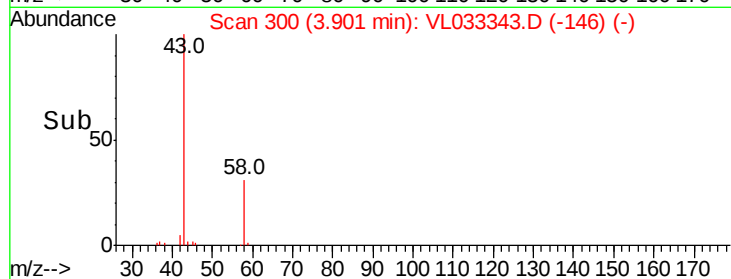
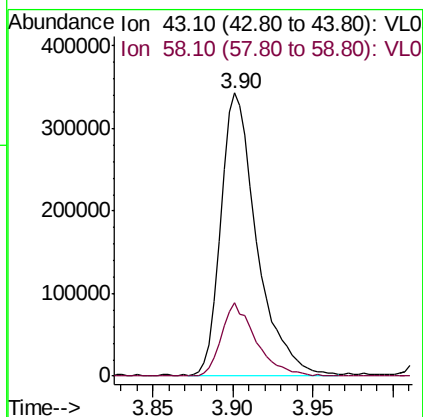
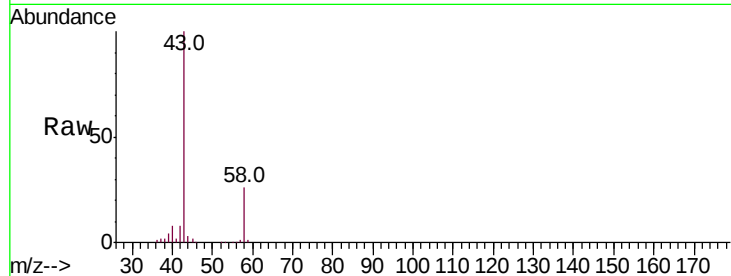
43 100

58 25.3 20.4 30.6

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#19

Isopropyl Alcohol

Concen: 13.910 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033343.D

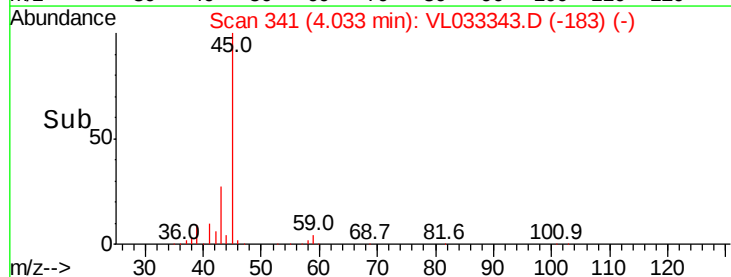
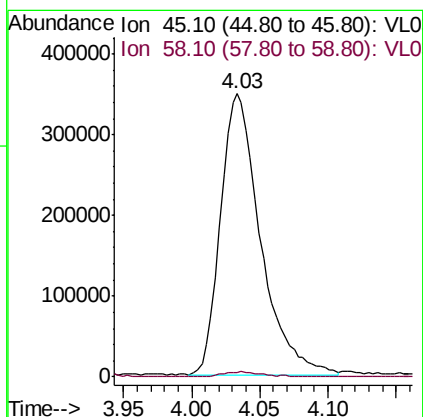
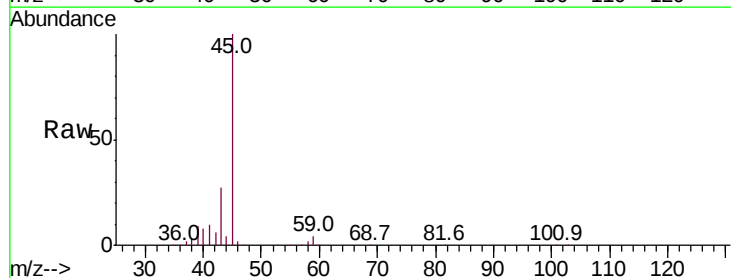
Acq: 15 Mar 2019 23:03

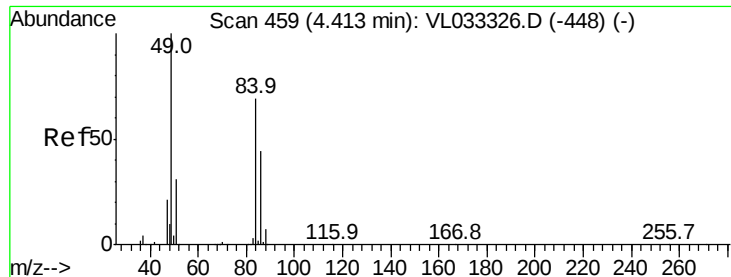
Tgt Ion: 45 Resp: 705475

Ion Ratio Lower Upper

45 100

58 2.2 1.5 2.3





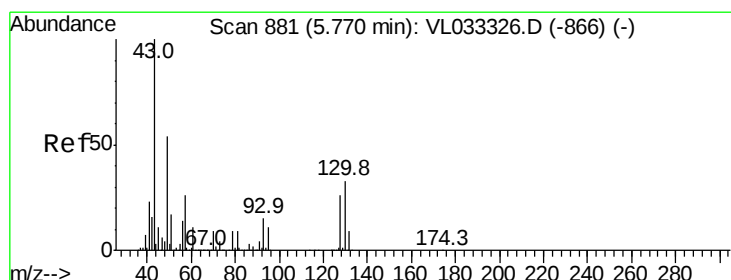
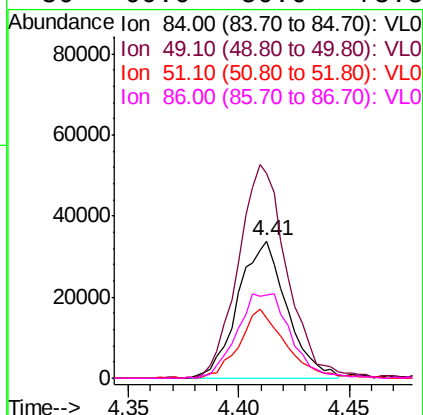
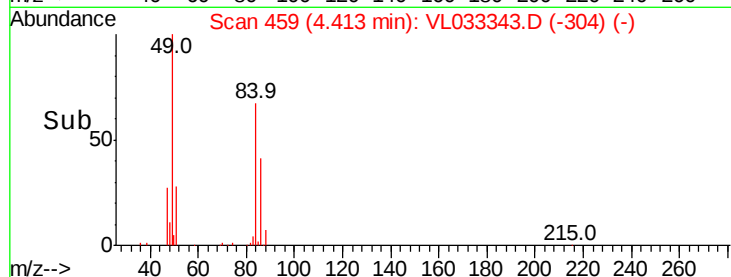
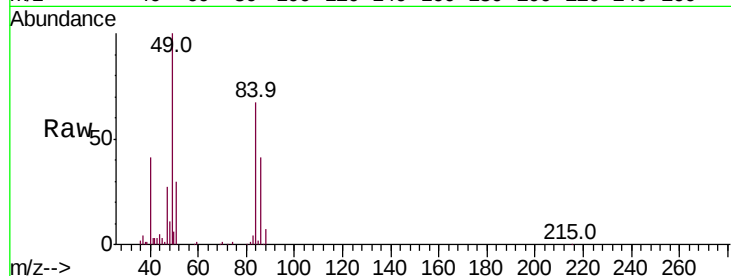
#20
Methvlene Chloride
Concen: 1.505 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Instrument :
MSVOA_L
ClientSampled :
A-6

Tot Ion	84	Resp	52320
Ion	Ratio	Lower	Upper
84	100		
49	148.8	115.4	173.0
51	43.5	35.8	53.6
86	60.0	50.6	75.8

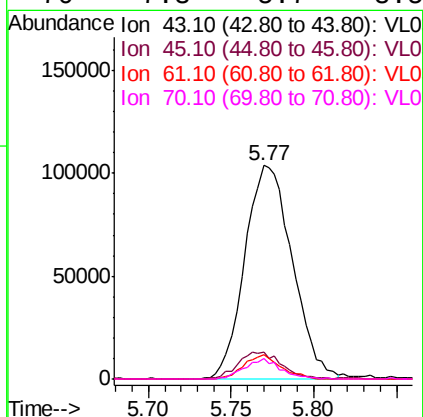
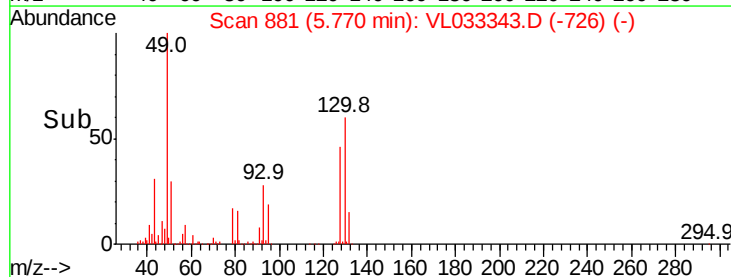
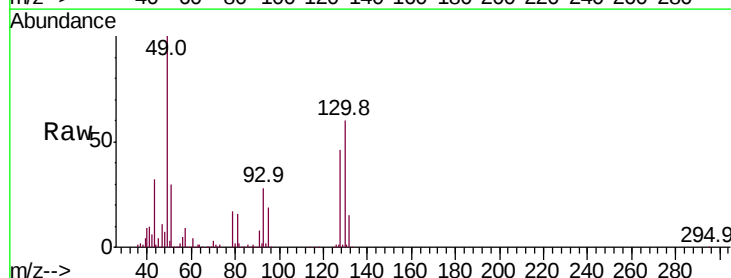
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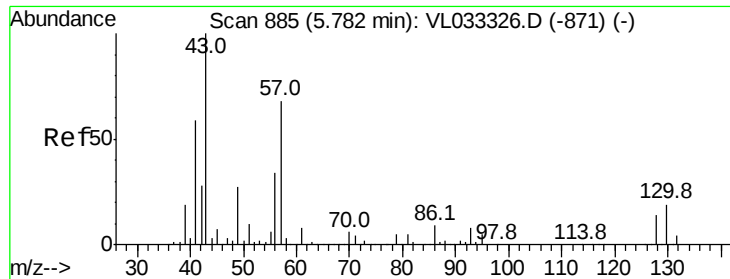
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#25
Ethyl Acetate
Concen: 1.332 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Tgt Ion	43	Resp	206391
Ion	Ratio	Lower	Upper
43	100		
45	12.0	7.9	11.9#
61	8.9	7.4	11.2
70	7.3	5.7	8.5





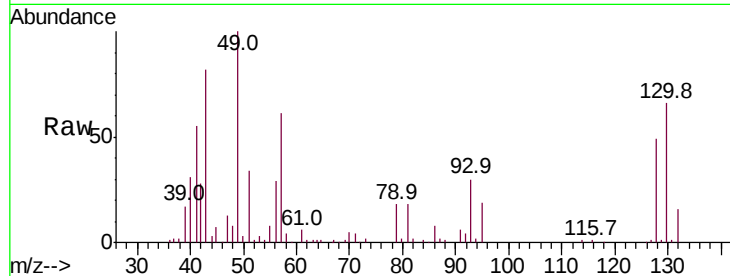
#26
Hexane
Concen: 1.340 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Instrument :
MSVOA_L
ClientSampleId :
A-6

Tot Ion	Ratio	Lower	Upper
57	100		
41	95.2	70.5	105.7
43	226.5	181.8	272.8
56	55.6	42.2	63.2

Manual Integrations
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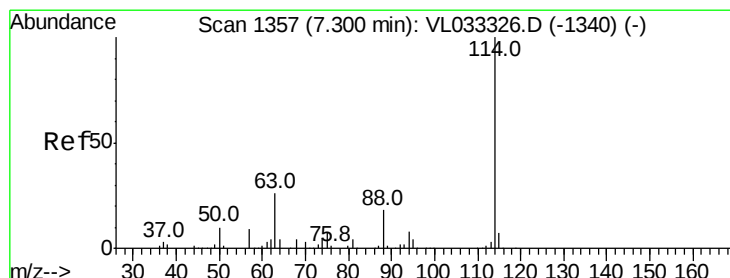
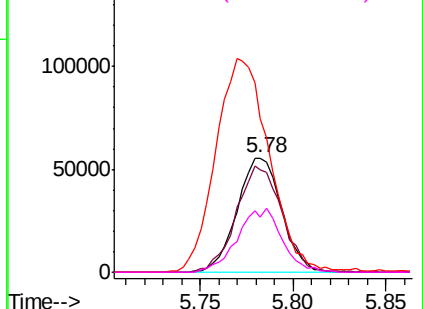
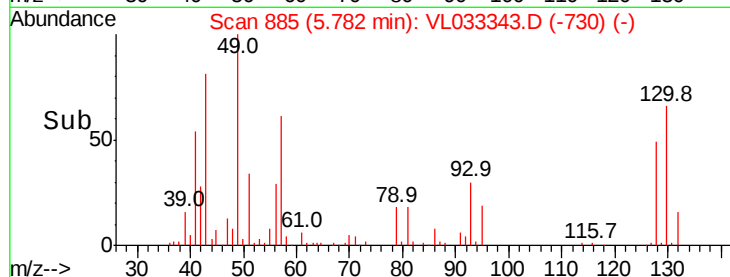
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

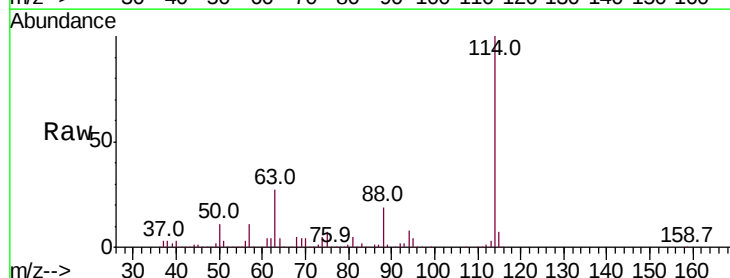
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.4	21.4	32.2
88	18.3	14.5	21.7

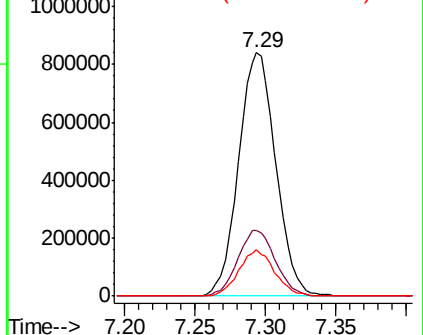
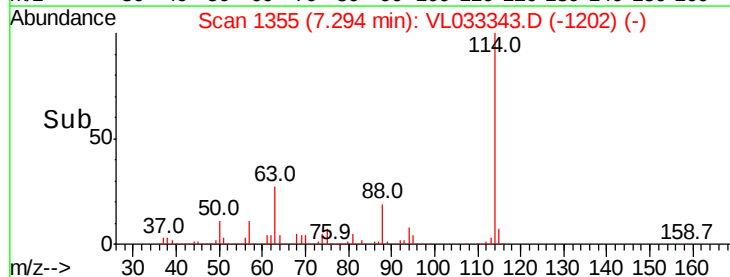


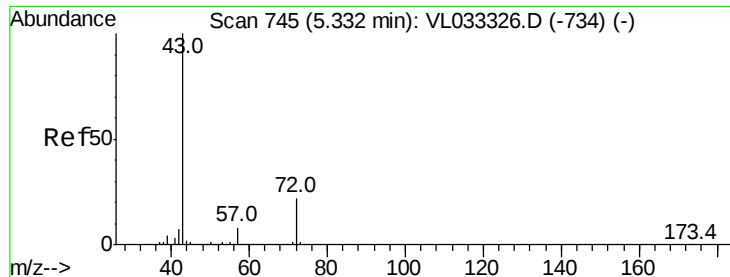
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.687 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.00 min

Lab File: VL033343.D

Acq: 15 Mar 2019 23:03

Instrument :

MSVOA_L

ClientSampleId :

A-6

Tot Ion: 43 Resp: 70021

Ion Ratio Lower Upper

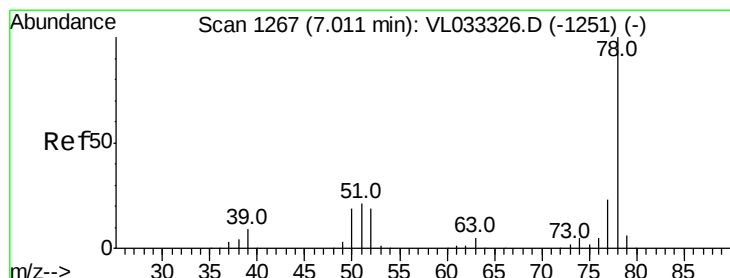
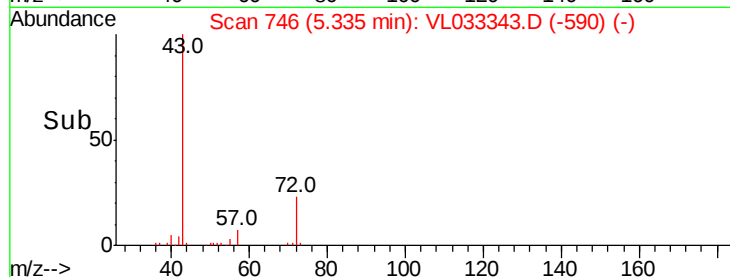
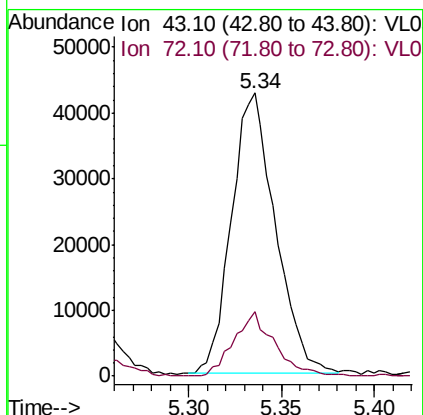
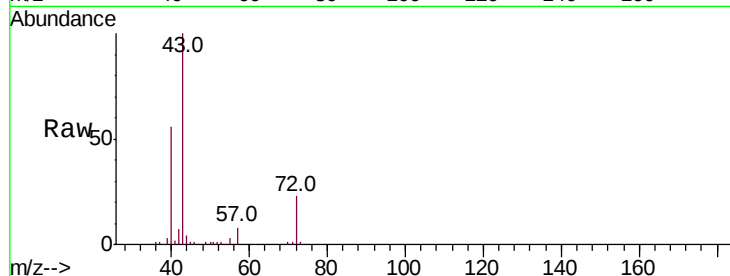
43 100

72 21.4 17.7 26.5

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#36

Benzene

Concen: 0.260 ppbv m

RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033343.D

Acq: 15 Mar 2019 23:03

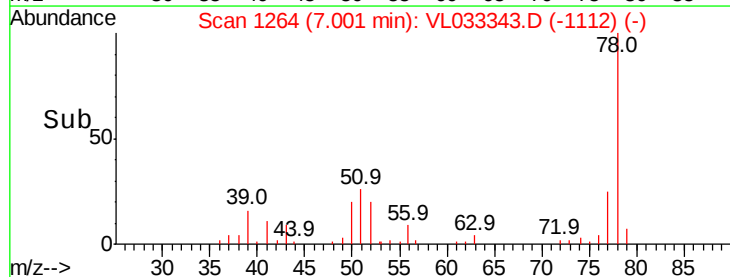
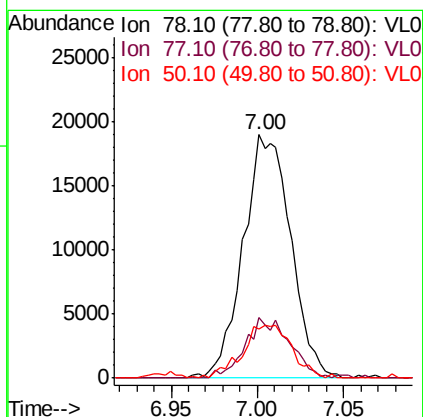
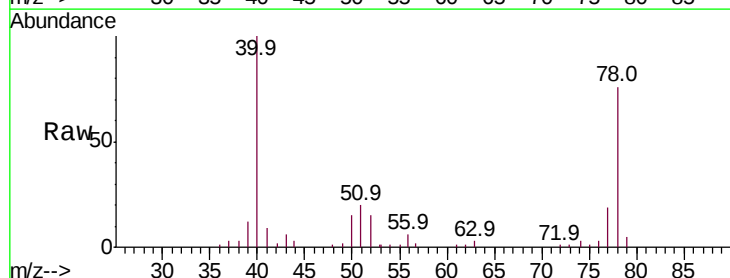
Tgt Ion: 78 Resp: 36162

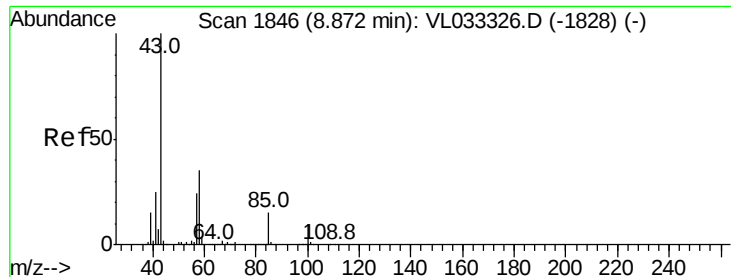
Ion Ratio Lower Upper

78 100

77 24.8 18.1 27.1

50 20.3 15.2 22.8





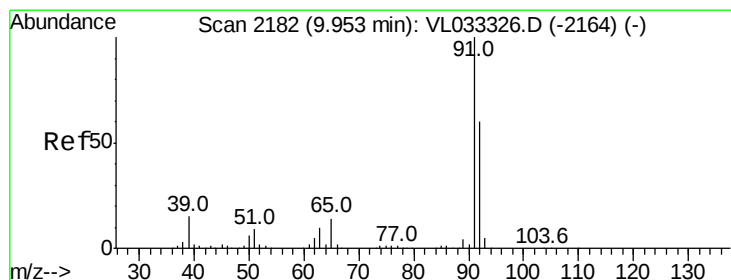
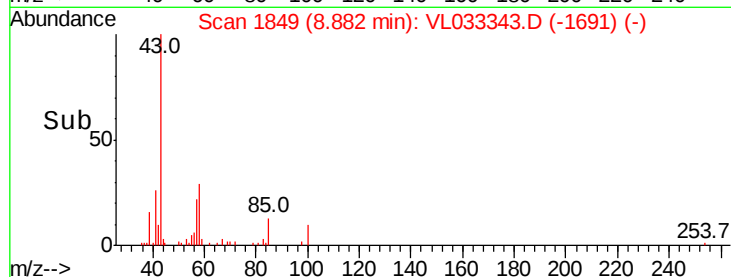
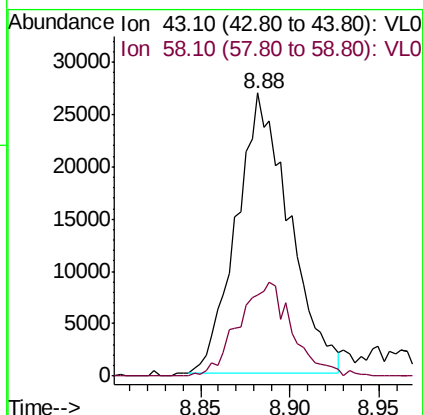
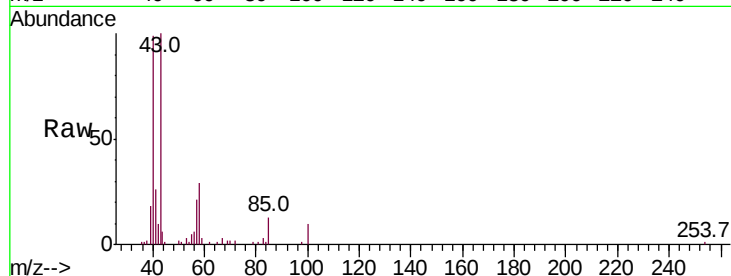
#50
4-Methyl-2-Pentanone
Concen: 0.386 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.01 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Instrument :
MSVOA_L
ClientSampleId :
A-6

Tot Ion: 43 Resp: 55621
Ion Ratio Lower Upper
43 100
58 34.0 28.4 42.6

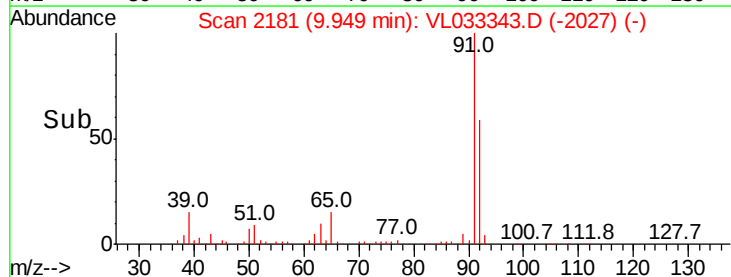
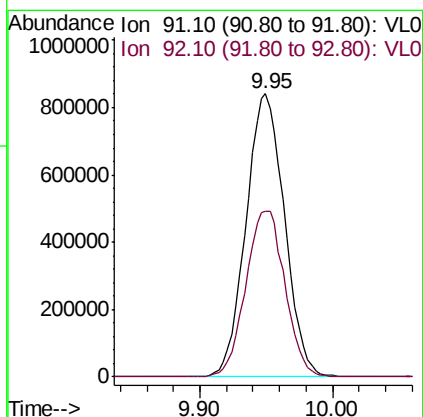
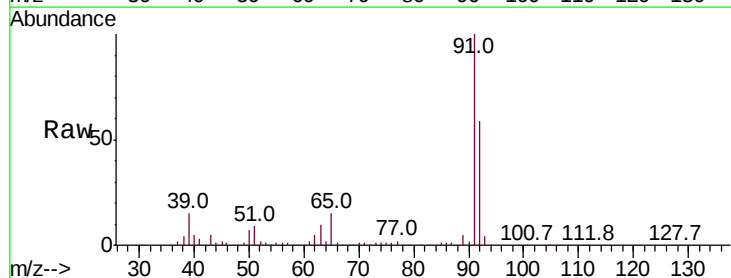
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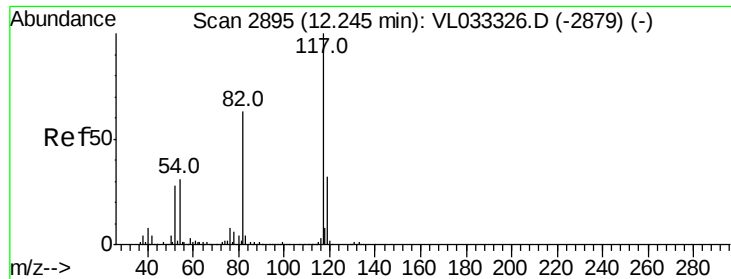
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#53
Toluene
Concen: 10.771 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Tgt Ion: 91 Resp: 1700907
Ion Ratio Lower Upper
91 100
92 59.9 47.4 71.0





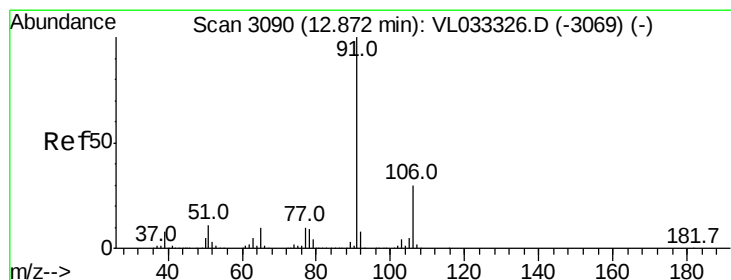
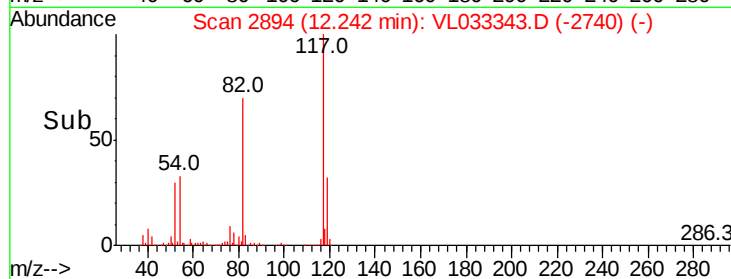
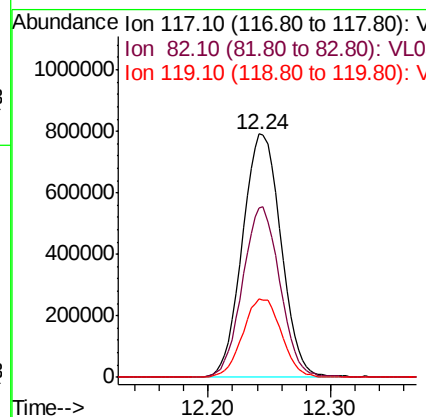
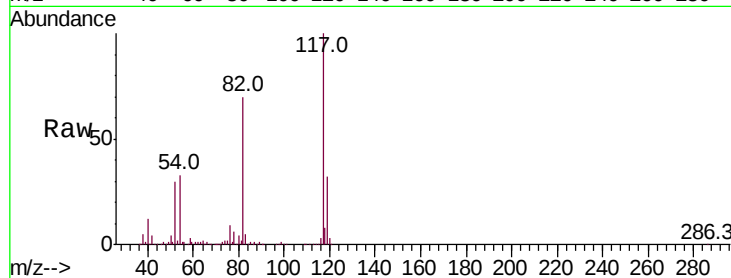
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Instrument :
MSVOA_L
ClientSampled :
A-6

Tot Ion:117 Resp: 1731157
Ion Ratio Lower Upper
117 100
82 67.9 53.4 80.2
119 32.3 27.3 40.9

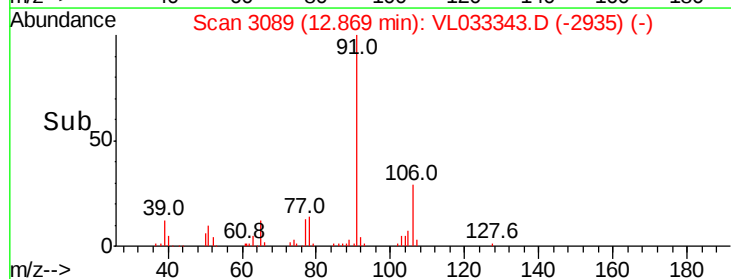
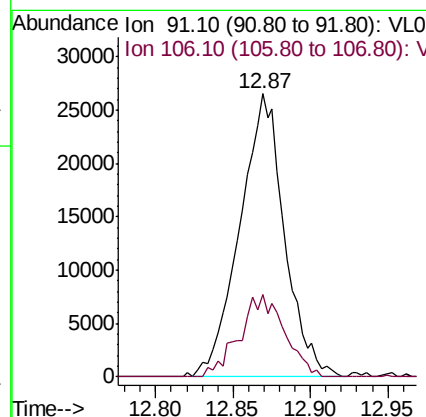
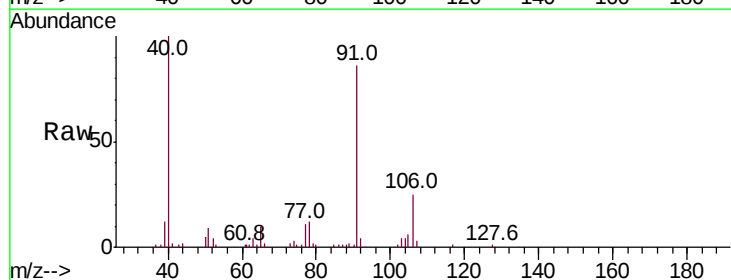
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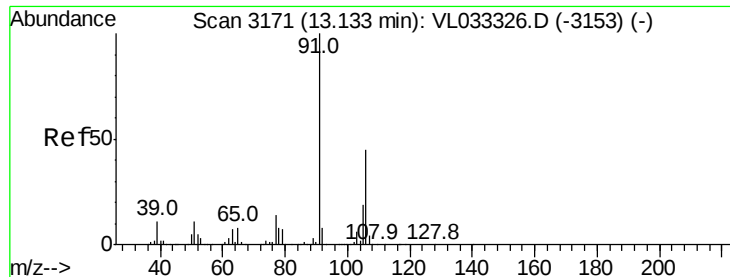
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#58
Ethyl Benzene
Concen: 0.218 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Tgt Ion: 91 Resp: 53273
Ion Ratio Lower Upper
91 100
106 29.1 24.2 36.2





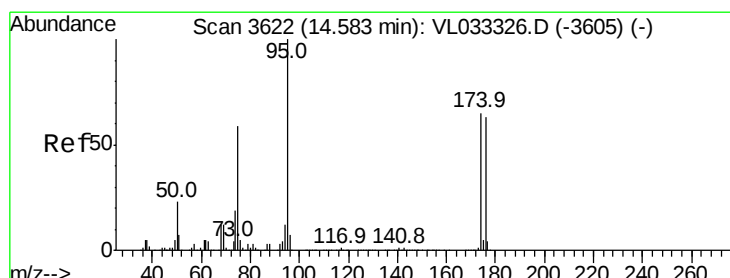
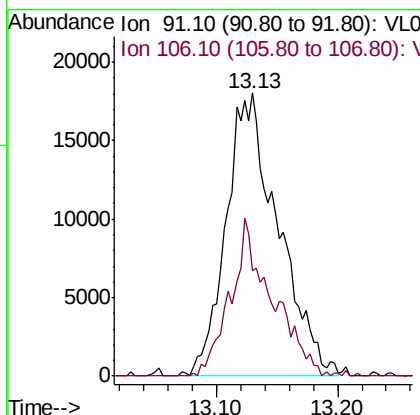
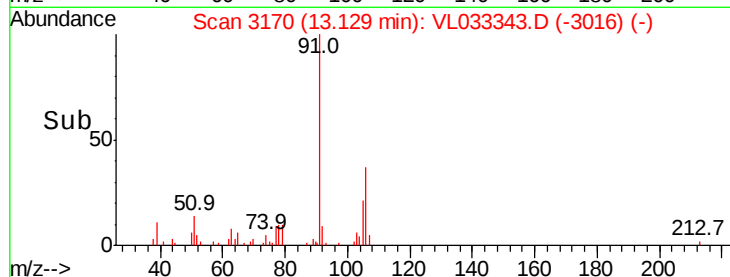
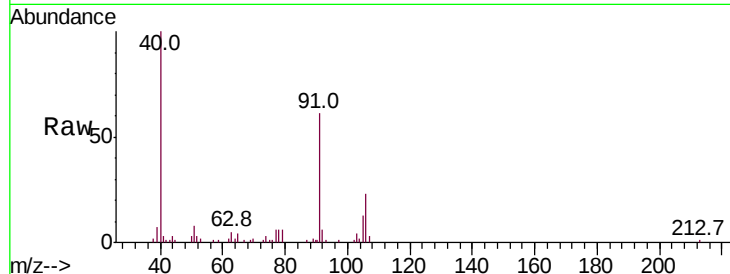
#59
m/p-Xylene
Concen: 0.254 ppbv m
RT: 13.13 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Instrument :
MSVOA_L
ClientSampleId :
A-6

Tot Ion: 91 Resp: 53384
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.213 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.00 min
Lab File: VL033343.D
Acq: 15 Mar 2019 23:03

Tgt Ion: 95 Resp: 1310135
Ion Ratio Lower Upper
95 100
174 64.8 51.5 77.3
175 4.5 3.8 5.6

