

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033821.D
 Acq On : 29 May 2019 3:11
 Operator : SY/AP
 Sample : K2960-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3011-25DL

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:41:13 PM

Quant Time: May 29 06:53:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1012699	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2652105	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2472002	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2040692	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.03	41	258371	5.237	ppbv	89
10) Heptane	8.23	43	20104m	0.144	ppbv	
13) Ethanol	3.66	45	25194	1.580	ppbv	93
15) Acetone	3.89	43	2494444	17.753	ppbv	97
17) tert-Butyl alcohol	4.38	59	28796m	0.253	ppbv	
20) Methylene Chloride	4.41	84	10063	0.186	ppbv #	85
26) Hexane	5.77	57	29229	0.275	ppbv #	39
27) Carbon Disulfide	4.62	76	20957	0.144	ppbv #	58
34) 2-Butanone	5.33	43	187786	1.142	ppbv	97
36) Benzene	7.00	78	28666m	0.119	ppbv	
53) Toluene	9.94	91	238524	0.917	ppbv	100
58) Ethyl Benzene	12.86	91	47809	0.146	ppbv #	86
59) m/p-Xylene	13.11	91	160595m	0.561	ppbv	
60) o-Xylene	13.84	91	59025	0.205	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	76360	0.218	ppbv #	76

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

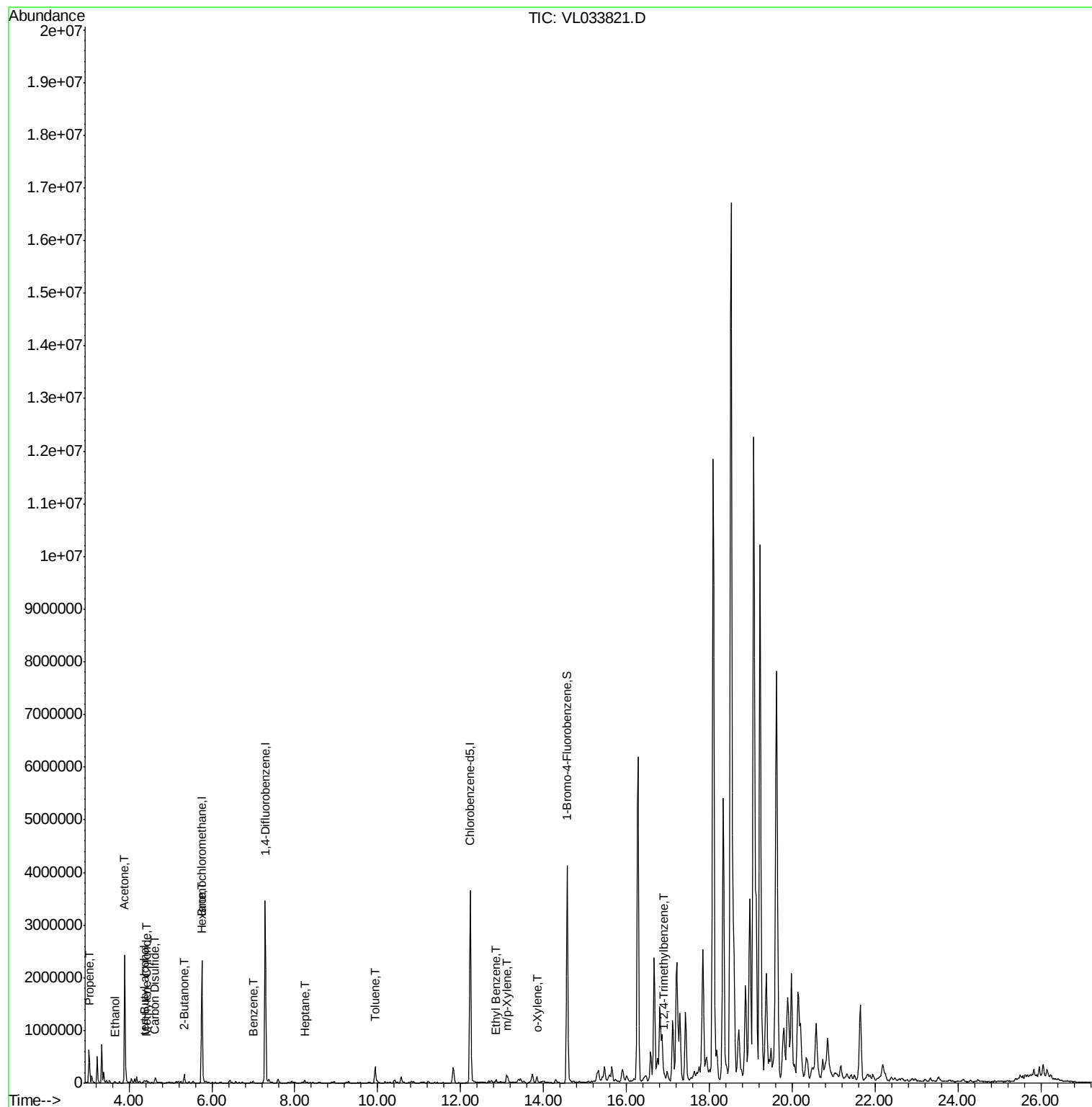
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052819\
Data File : VL033821.D
Acq On : 29 May 2019 3:11
Operator : SY/AP
Sample : K2960-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

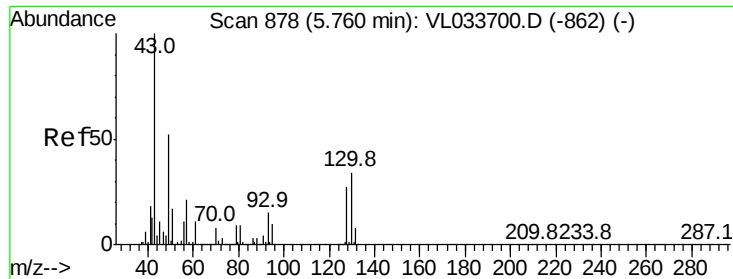
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-25DL

Manual Integrations
APPROVED

apatel
5/29/2019 12:41:13 PM

Quant Time: May 29 06:53:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033821.D

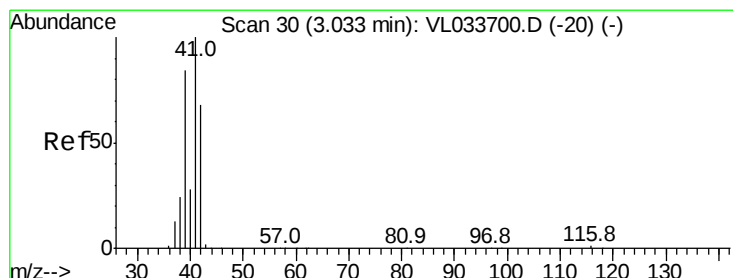
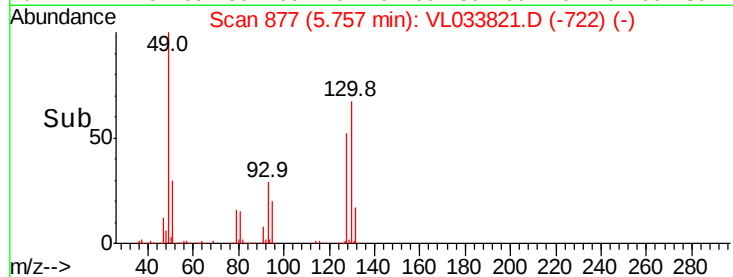
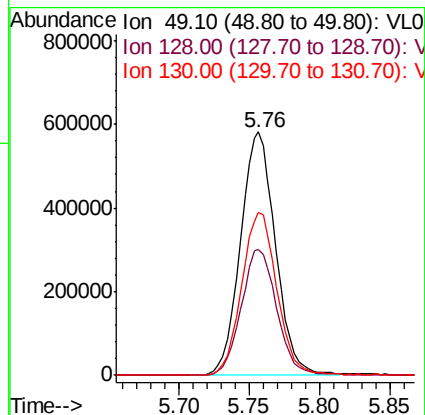
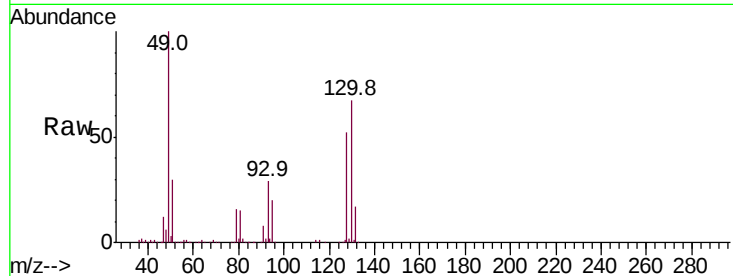
Acq: 29 May 2019 3:11

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-25DL

Tot Ion: 49 Resp: 1012699
Ion Ratio Lower Upper
49 100
128 52.4 25.2 75.6
130 67.9 32.5 97.5

Manual Integrations
APPROVED

apatel
5/29/2019 12:41:13 PM



#9

Propene

Concen: 5.237 ppbv

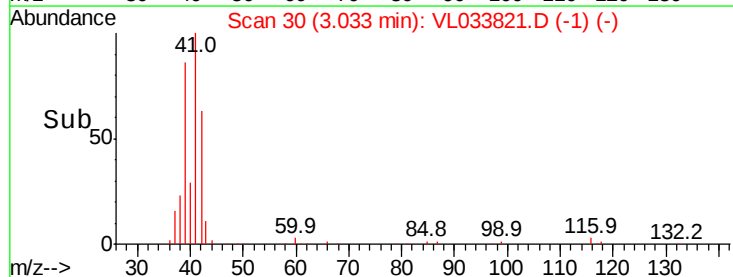
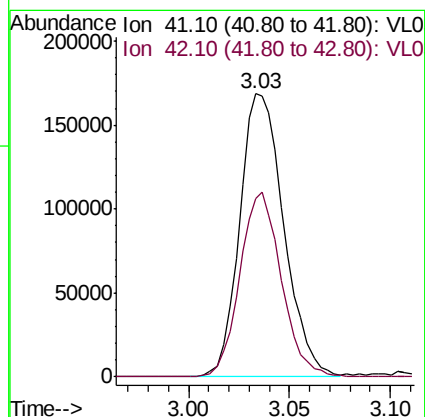
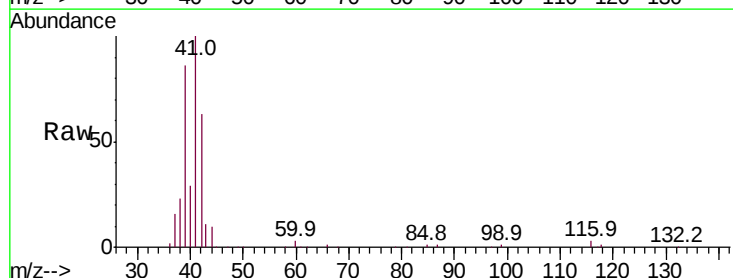
RT: 3.03 min Scan# 30

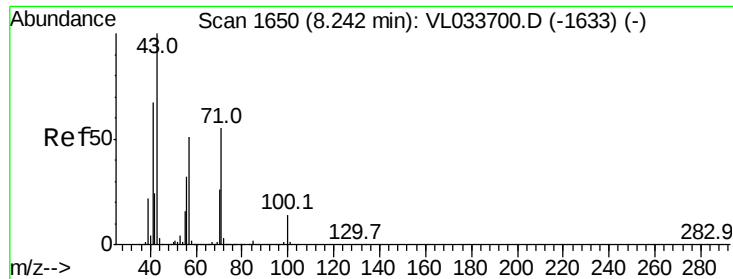
Delta R.T. 0.00 min

Lab File: VL033821.D

Acq: 29 May 2019 3:11

Tgt Ion: 41 Resp: 258371
Ion Ratio Lower Upper
41 100
42 61.3 56.1 84.1





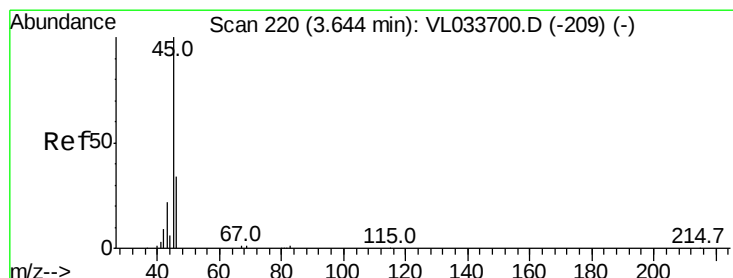
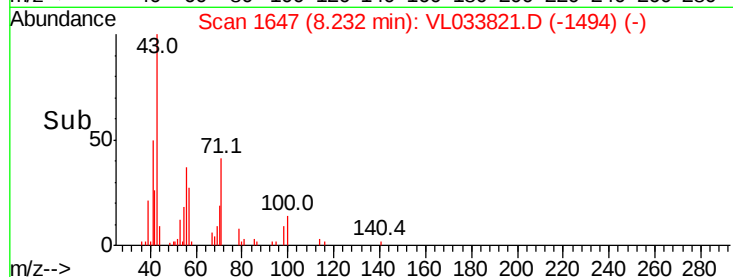
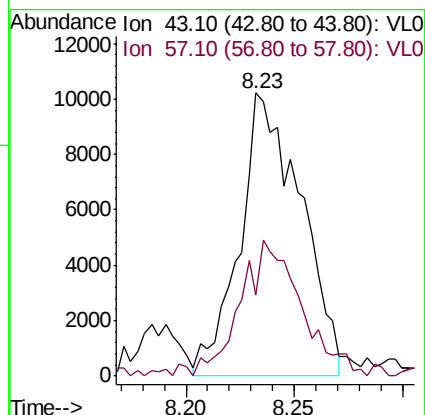
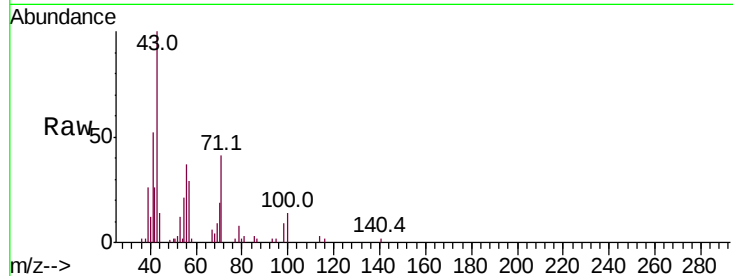
#10
Heptane
Concen: 0.144 ppbv m
RT: 8.23 min Scan# 1647
Delta R.T. -0.01 min
Lab File: VL033821.D
Acq: 29 May 2019 3:11

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-25DL

Tot Ion: 43 Resp: 20104
Ion Ratio Lower Upper
43 100
57 50.4 41.4 62.0

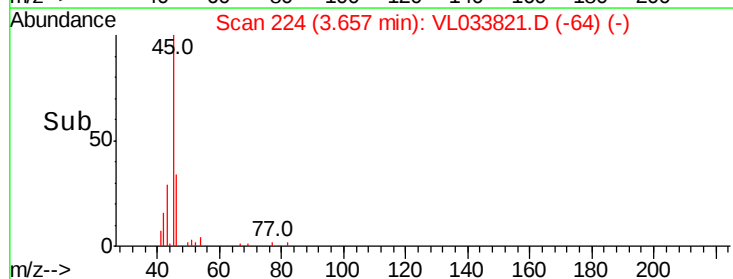
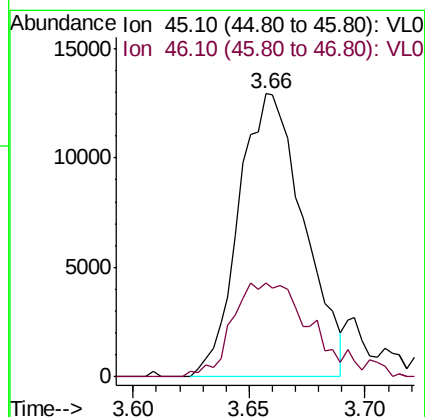
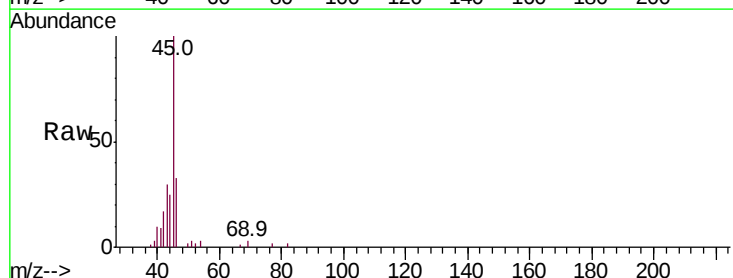
Manual Integrations
APPROVED

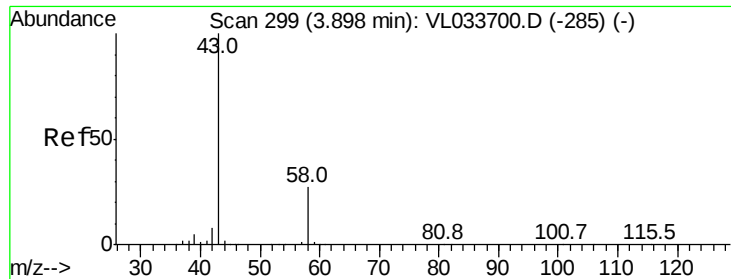
apatel
5/29/2019 12:41:13 PM



#13
Ethanol
Concen: 1.580 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033821.D
Acq: 29 May 2019 3:11

Tgt Ion: 45 Resp: 25194
Ion Ratio Lower Upper
45 100
46 41.1 14.8 59.0





#15

Acetone

Concen: 17.753 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033821.D

Acq: 29 May 2019 3:11

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-25DL

Tot Ion: 43 Resp: 2494444

Ion Ratio Lower Upper

43 100

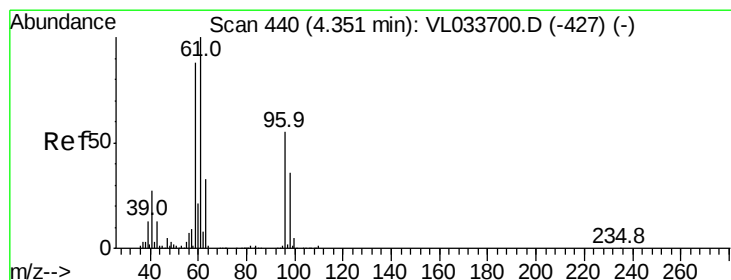
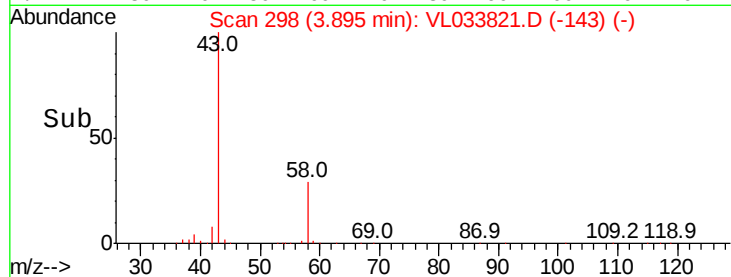
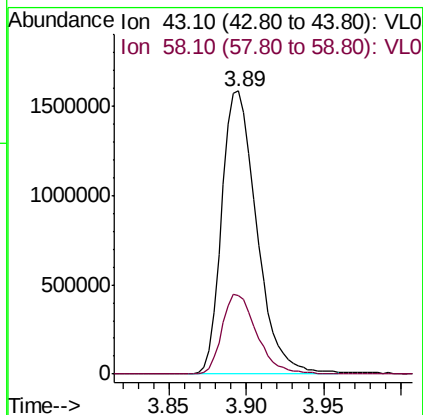
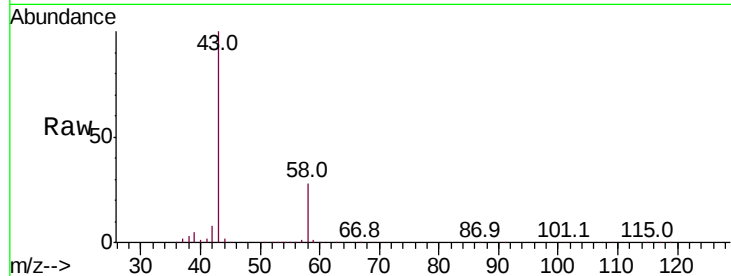
58 28.3 21.3 31.9

Manual Integrations

APPROVED

apatel

5/29/2019 12:41:13 PM



#17

tert-Butyl alcohol

Concen: 0.253 ppbv m

RT: 4.38 min Scan# 449

Delta R.T. 0.03 min

Lab File: VL033821.D

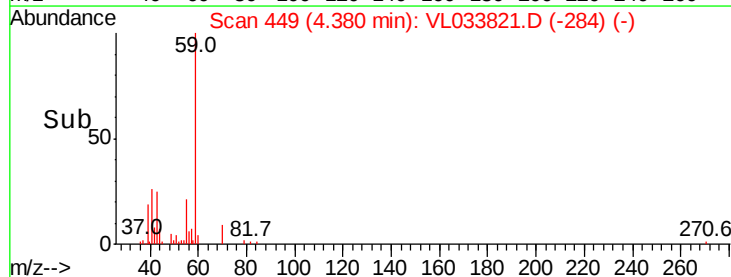
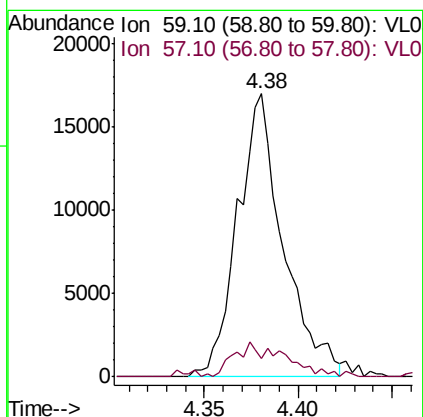
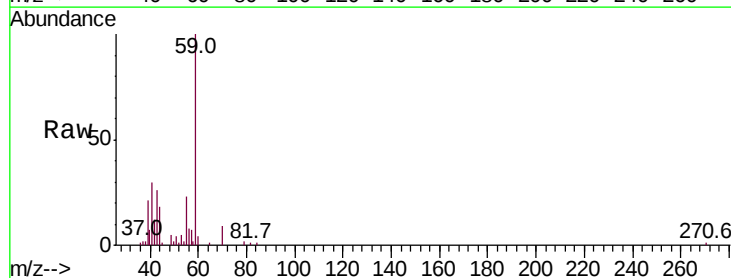
Acq: 29 May 2019 3:11

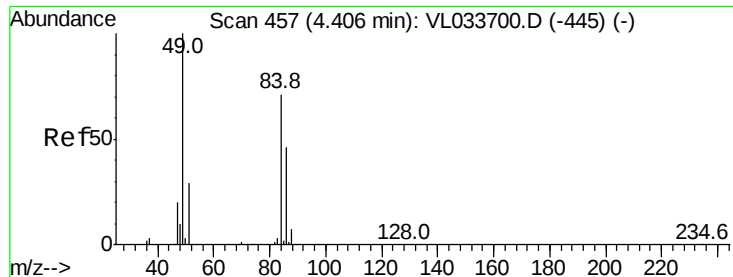
Tgt Ion: 59 Resp: 28796

Ion Ratio Lower Upper

59 100

57 14.6 8.4 12.6#





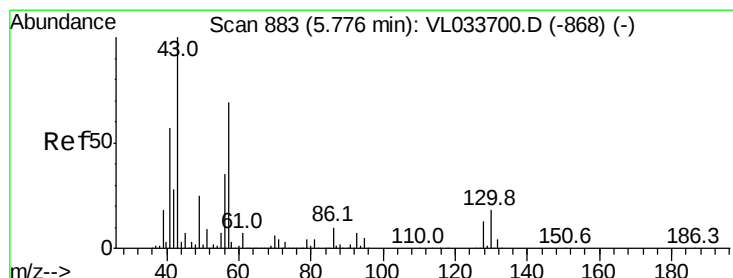
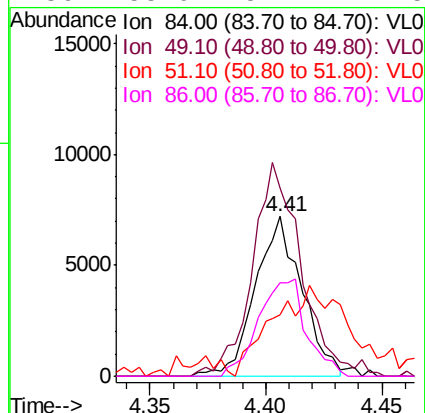
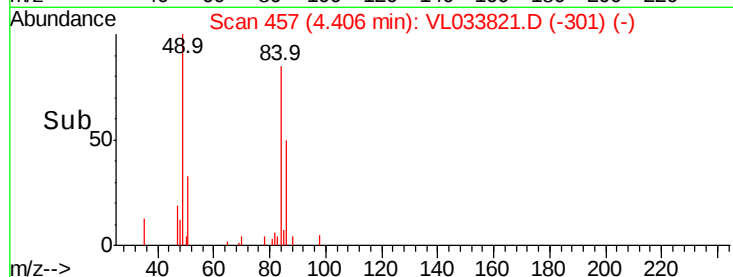
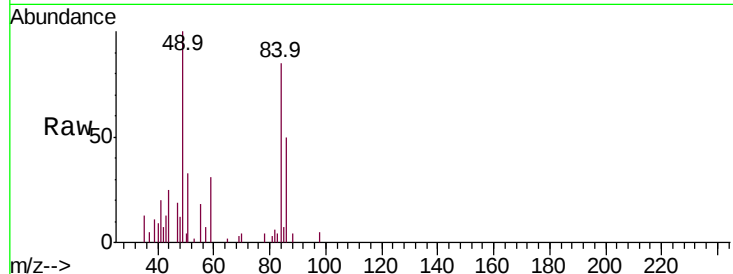
#20
Methvlene Chloride
Concen: 0.186 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033821.D
Acq: 29 May 2019 3:11

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-25DL

Tot Ion	Ratio	Lower	Upper
84	100		
49	117.4	112.8	169.2
51	32.8	33.4	50.0#
86	58.9	51.7	77.5

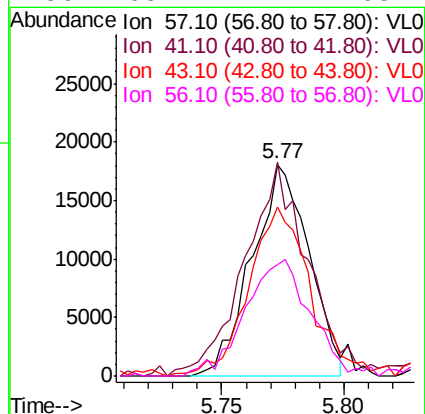
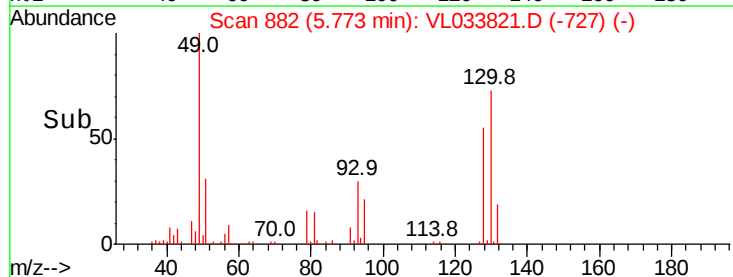
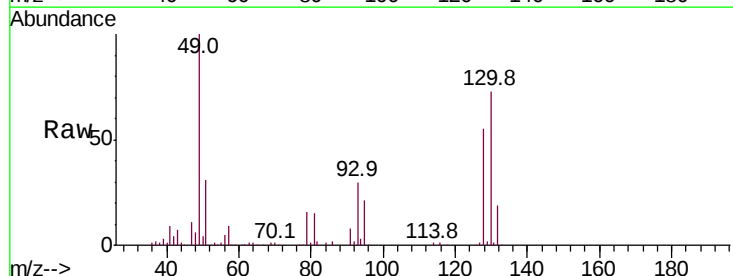
Manual Integrations
APPROVED

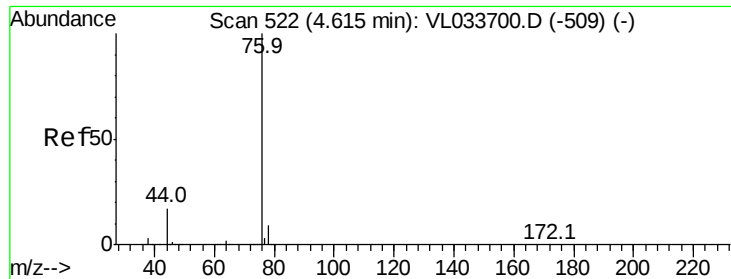
apatel
5/29/2019 12:41:13 PM



#26
Hexane
Concen: 0.275 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033821.D
Acq: 29 May 2019 3:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	113.1	69.8	104.6#
43	89.1	181.8	272.6#
56	65.2	42.1	63.1#





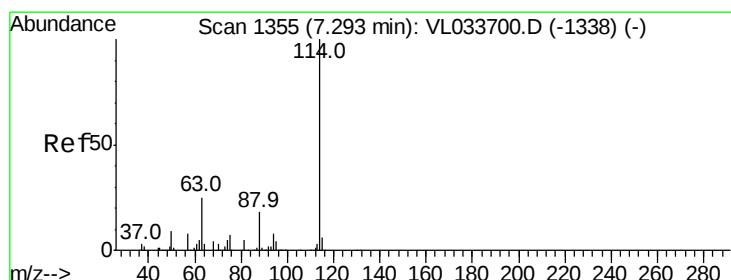
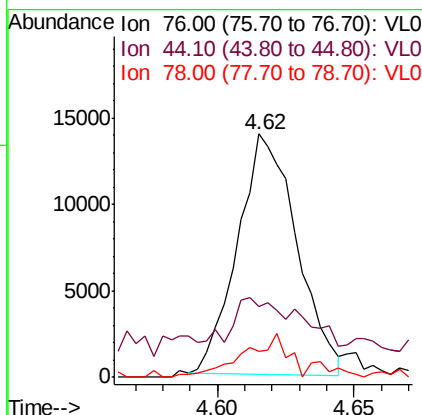
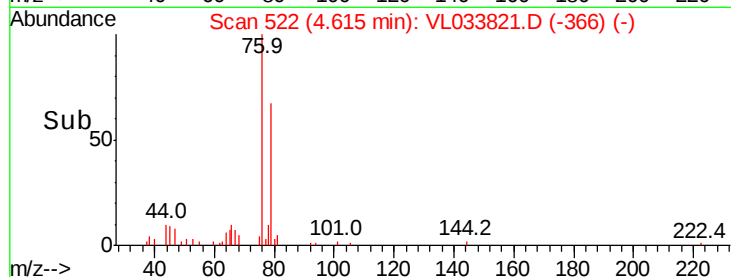
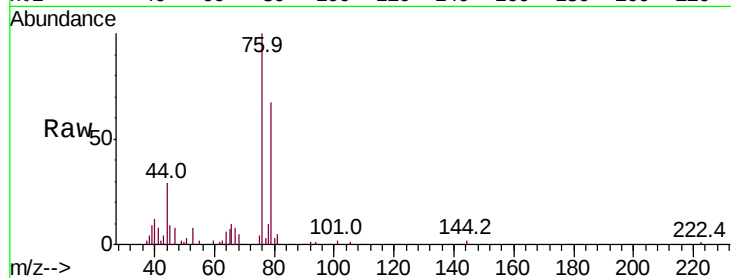
#27
Carbon Disulfide
Concen: 0.144 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.00 min
Lab File: VL033821.D
Acq: 29 May 2019 3:11

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-25DL

Tot Ion	Ratio	Lower	Upper
76	100		
44	39.9	13.8	20.8#
78	18.1	7.4	11.0#

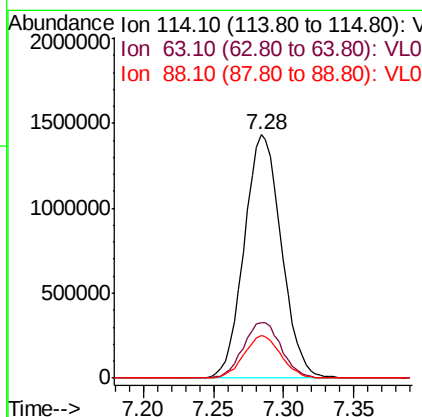
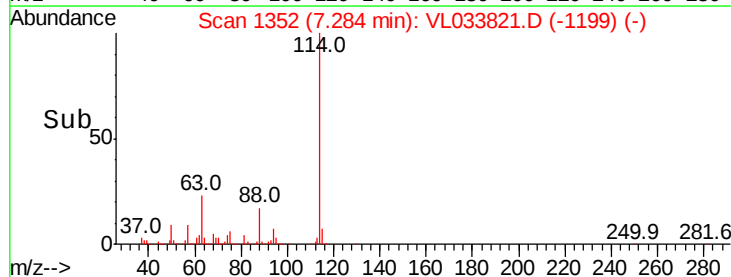
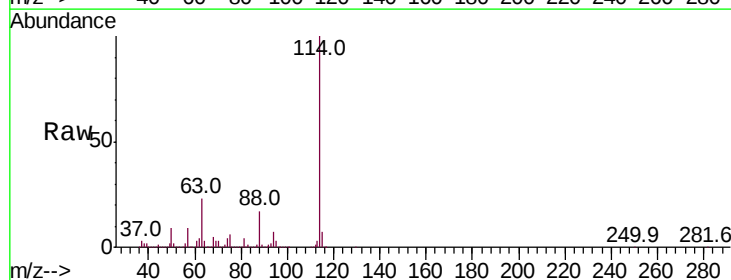
Manual Integrations
APPROVED

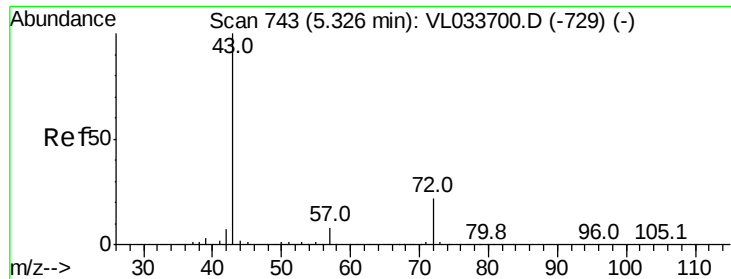
apatel
5/29/2019 12:41:13 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033821.D
Acq: 29 May 2019 3:11

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.4	20.9	31.3
88	17.2	14.3	21.5





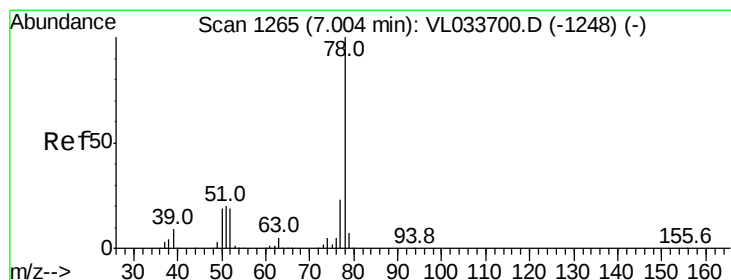
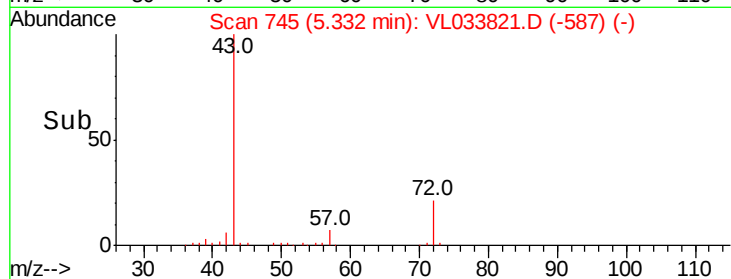
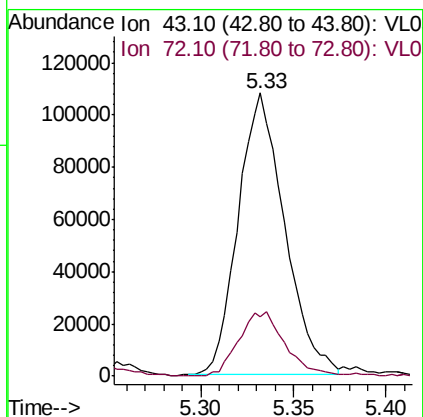
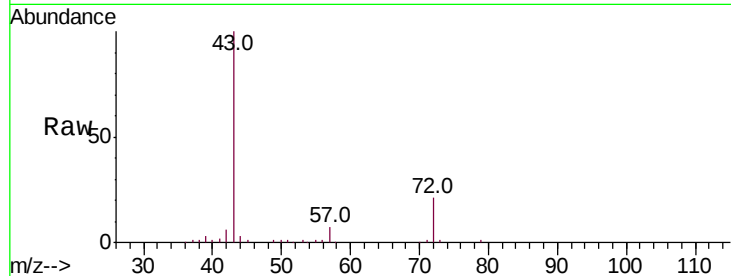
#34
2-Butanone
Concen: 1.142 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.01 min
Lab File: VL033821.D
Acq: 29 May 2019 3:11

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-25DL

Tot Ion: 43 Resp: 187786
Ion Ratio Lower Upper
43 100
72 23.5 17.8 26.6

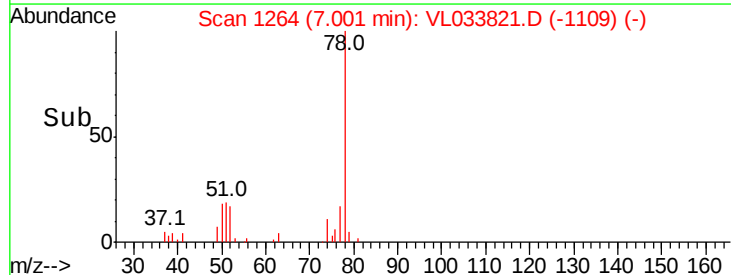
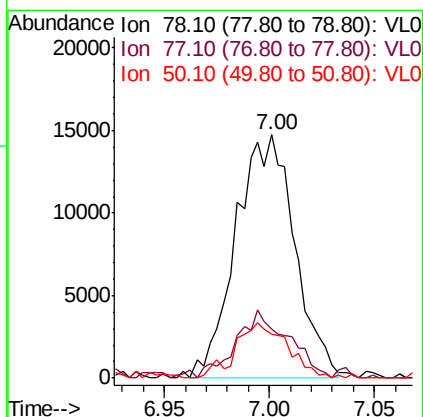
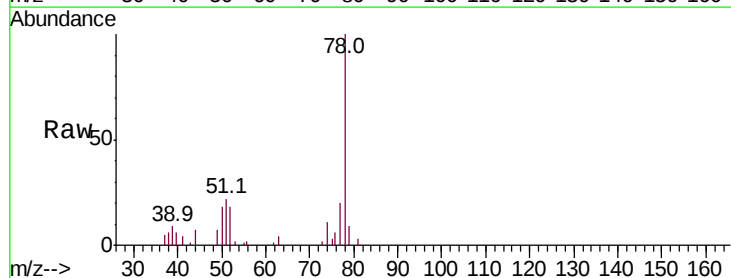
Manual Integrations
APPROVED

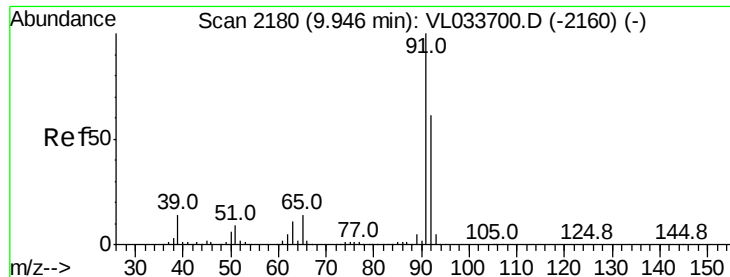
apatel
5/29/2019 12:41:13 PM



#36
Benzene
Concen: 0.119 ppbv m
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033821.D
Acq: 29 May 2019 3:11

Tgt Ion: 78 Resp: 28666
Ion Ratio Lower Upper
78 100
77 20.3 18.4 27.6
50 18.1 15.5 23.3





#53

Toluene

Concen: 0.917 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033821.D

Acq: 29 May 2019 3:11

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-25DL

Tot Ion: 91 Resp: 238524

Ion Ratio Lower Upper

91 100

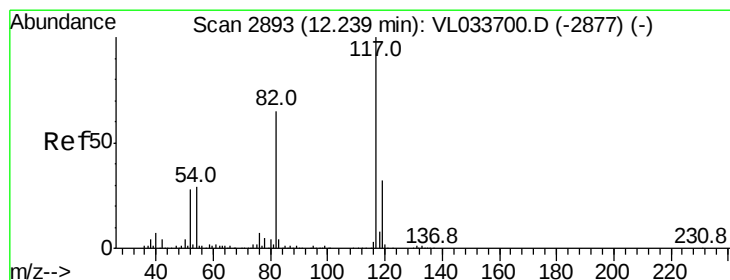
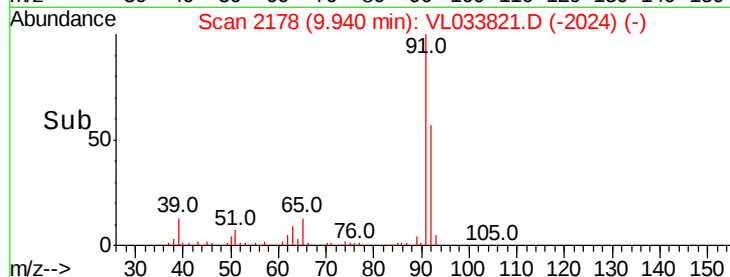
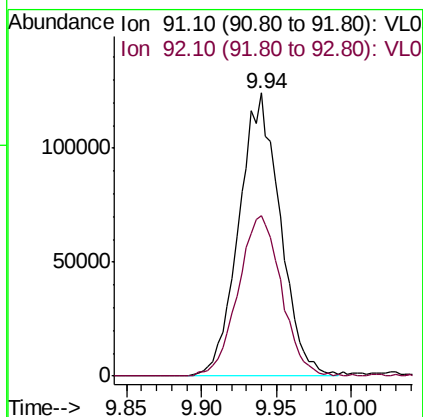
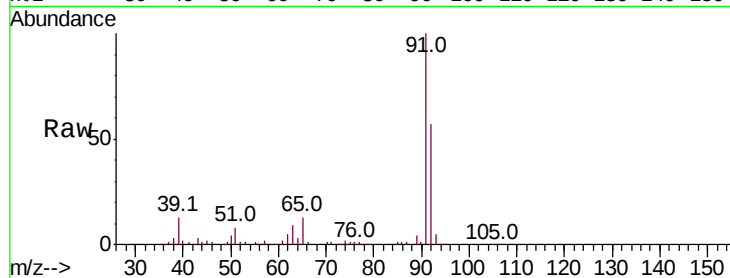
92 59.6 47.6 71.4

Manual Integrations

APPROVED

apatel

5/29/2019 12:41:13 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033821.D

Acq: 29 May 2019 3:11

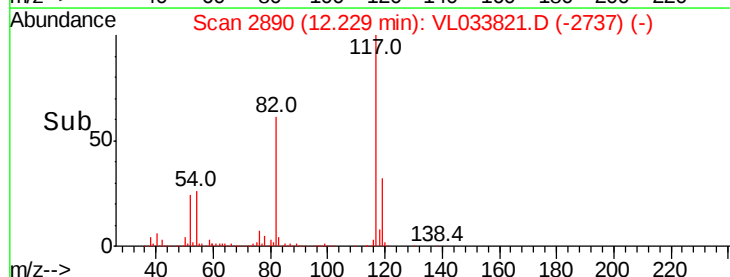
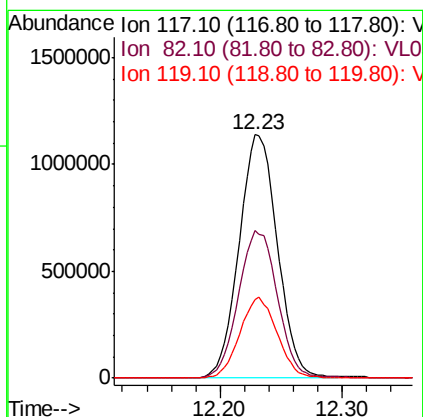
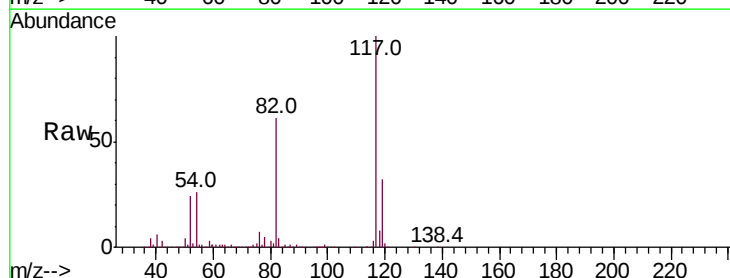
Tgt Ion: 117 Resp: 2472002

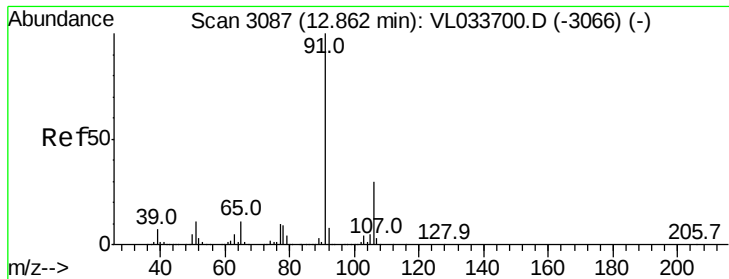
Ion Ratio Lower Upper

117 100

82 62.3 49.4 74.0

119 32.5 24.9 37.3





#58

Ethyl Benzene

Concen: 0.146 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL033821.D

Acq: 29 May 2019 3:11

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-25DL

Tot Ion: 91 Resp: 47809

Ion Ratio Lower Upper

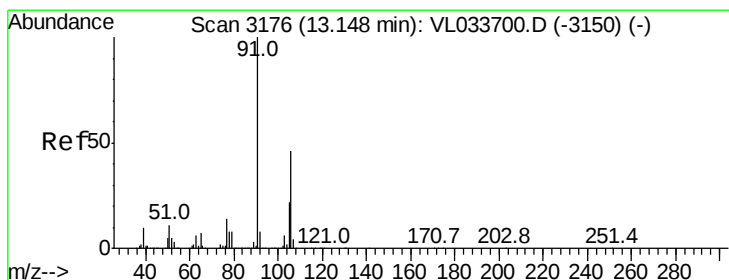
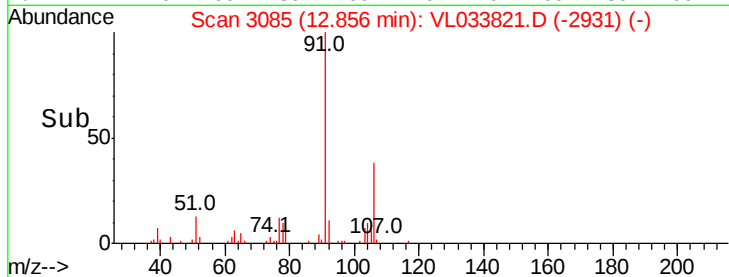
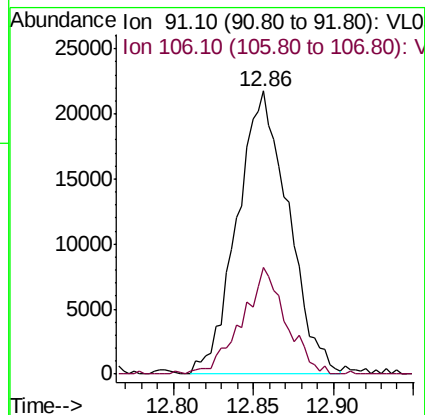
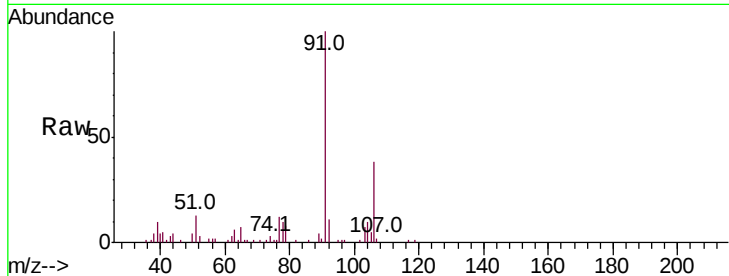
91 100

106 37.7 23.9 35.9#

Manual Integrations
APPROVED

apatel

5/29/2019 12:41:13 PM



#59

m/p-Xylene

Concen: 0.561 ppbv m

RT: 13.11 min Scan# 3164

Delta R.T. -0.04 min

Lab File: VL033821.D

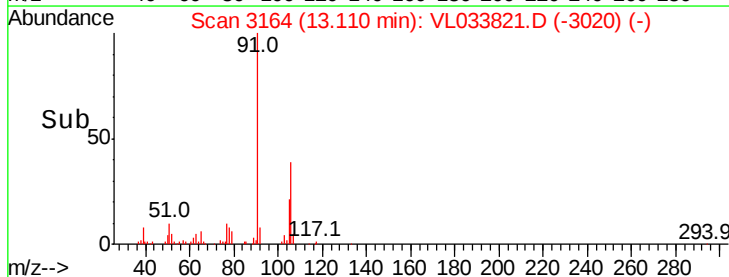
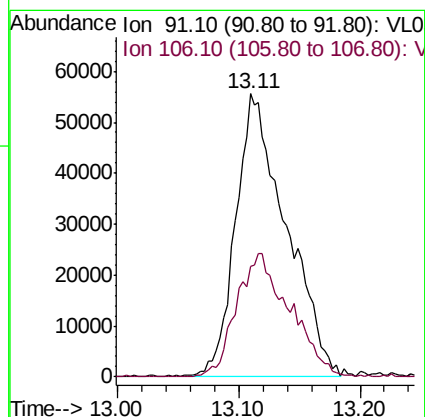
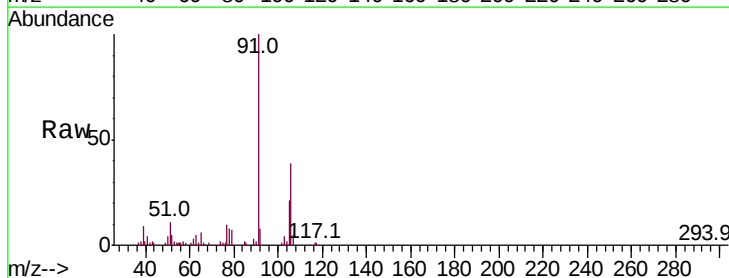
Acq: 29 May 2019 3:11

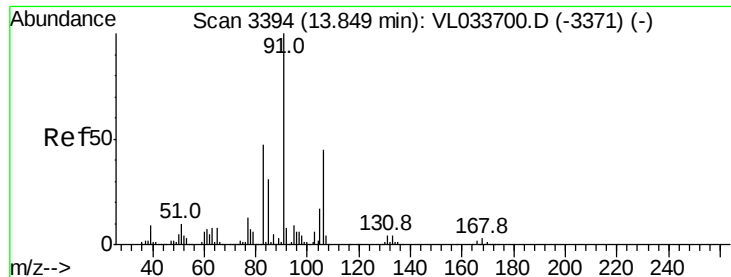
Tgt Ion: 91 Resp: 160595

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.6#





#60

o-Xylene

Concen: 0.205 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL033821.D

Acq: 29 May 2019 3:11

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-25DL

Tot Ion: 91 Resp: 59025

Ion Ratio Lower Upper

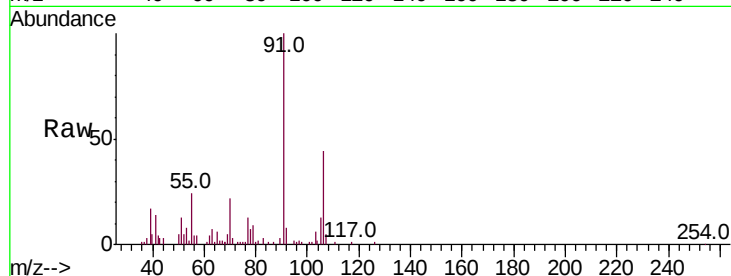
91 100

106 46.2 21.6 64.8

Manual Integrations
APPROVED

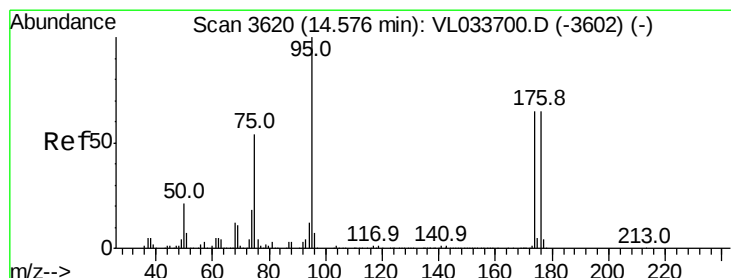
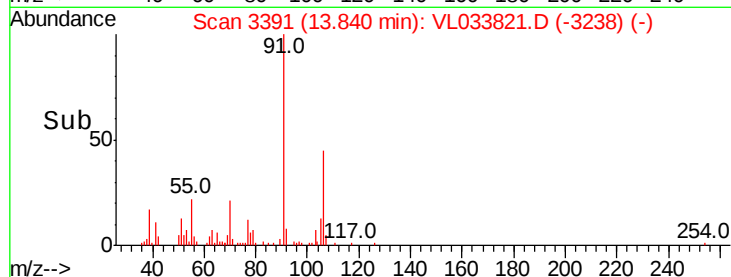
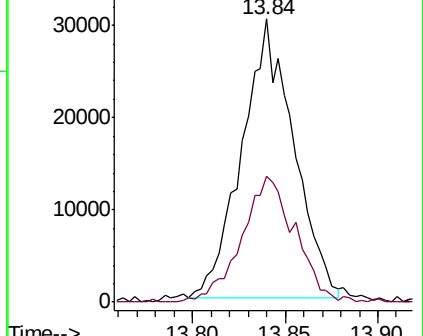
apatel

5/29/2019 12:41:13 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.183 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033821.D

Acq: 29 May 2019 3:11

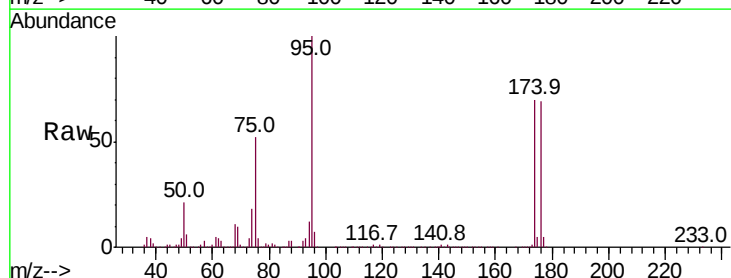
Tgt Ion: 95 Resp: 2040692

Ion Ratio Lower Upper

95 100

174 70.0 53.9 80.9

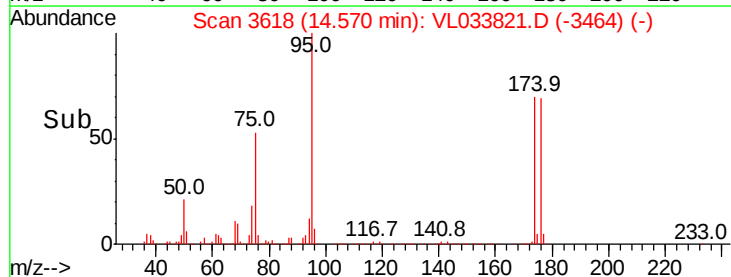
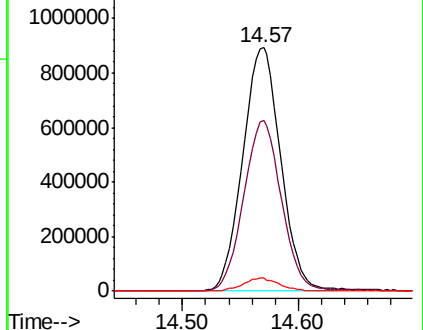
175 5.2 3.8 5.8

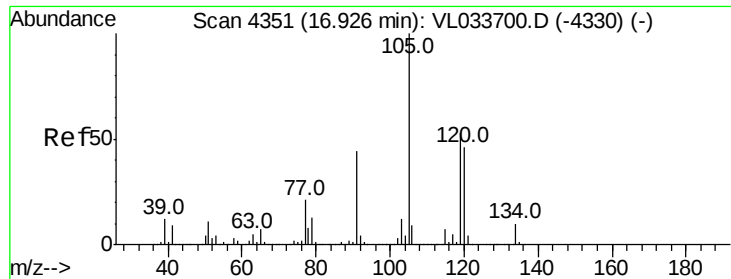


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74

1,2,4-Trimethylbenzene

Concen: 0.218 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL033821.D

Acq: 29 May 2019 3:11

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-25DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	45.2	36.8	55.2
91	13.4	35.4	53.0#
77	10.1	16.8	25.2#

Manual Integrations
APPROVED

apatel
5/29/2019 12:41:13 PM

