

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033819.D
 Acq On : 29 May 2019 1:51
 Operator : SY/AP
 Sample : K2960-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3011-55DL

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:41:05 PM

Quant Time: May 29 06:43:45 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	996653	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2507876	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2241538	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1955022	10.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.03	41	537405	11.067	ppbv	92
10) Heptane	8.24	43	23754	0.173	ppbv	96
13) Ethanol	3.65	45	86662m	5.522	ppbv	
15) Acetone	3.89	43	4684652	33.878	ppbv	95
17) tert-Butyl alcohol	4.38	59	26620m	0.238	ppbv	
20) Methylene Chloride	4.41	84	33561	0.630	ppbv	90
26) Hexane	5.78	57	61292	0.587	ppbv #	40
27) Carbon Disulfide	4.62	76	19339m	0.135	ppbv	
34) 2-Butanone	5.33	43	202060	1.300	ppbv	97
36) Benzene	7.00	78	42180	0.185	ppbv #	91
53) Toluene	9.94	91	466180	1.895	ppbv	100
58) Ethyl Benzene	12.85	91	47898m	0.161	ppbv	
59) m/p-Xylene	13.12	91	159828m	0.616	ppbv	
60) o-Xylene	13.84	91	56990	0.218	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	68445	0.216	ppbv #	74

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

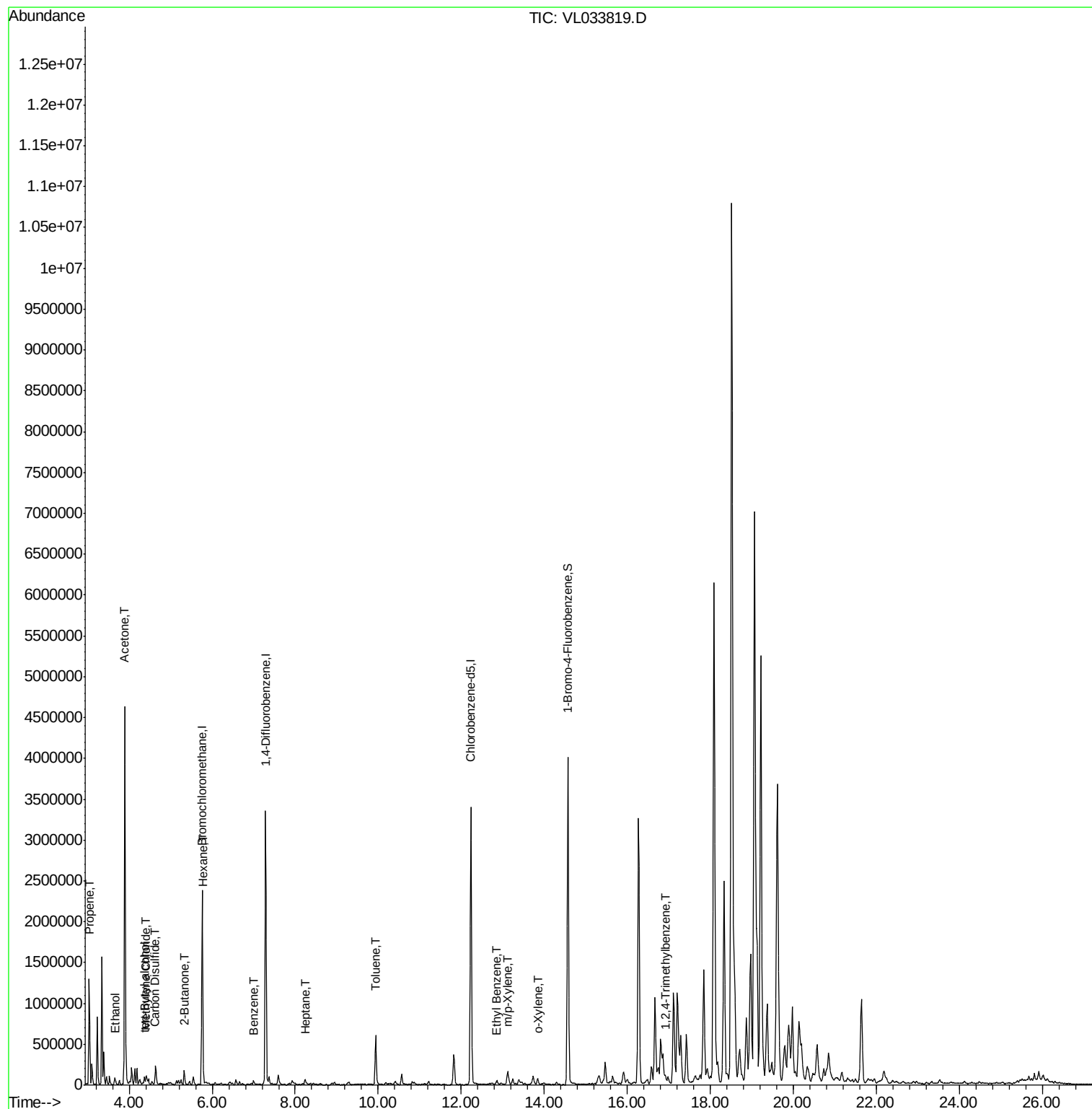
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052819\
Data File : VL033819.D
Acq On : 29 May 2019 1:51
Operator : SY/AP
Sample : K2960-07DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

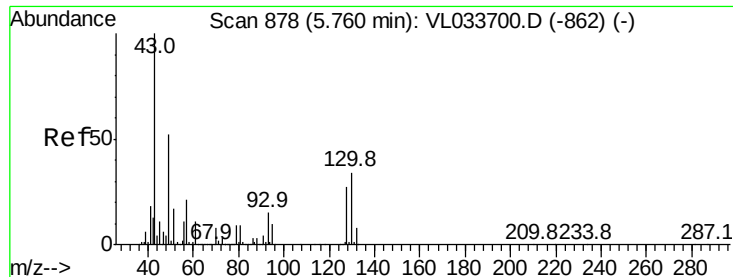
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-55DL

Manual Integrations
APPROVED

apatel
5/29/2019 12:41:05 PM

Quant Time: May 29 06:43:45 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: VL033819.D

Acq: 29 May 2019 1:51

Instrument :

MSVOA_L

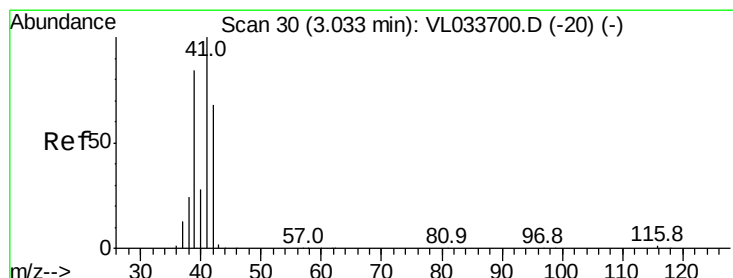
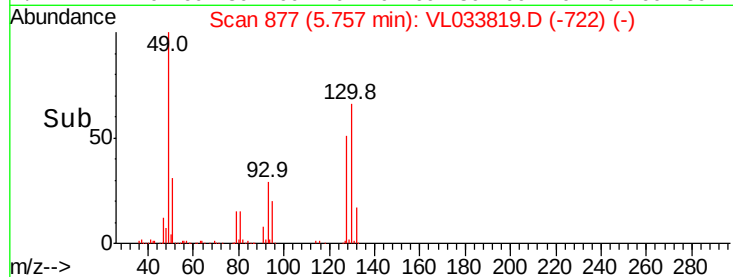
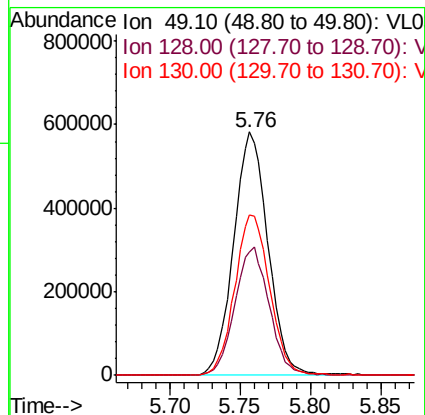
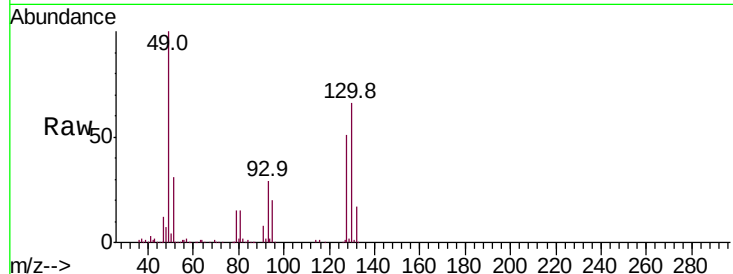
ClientSampleId :

BPS1-SG-3011-55DL

Tot Ion:	49	Resp:	996653
Ion Ratio	Lower	Upper	
49	100		
128	52.6	25.2	75.6
130	67.4	32.5	97.5

Manual Integrations
APPROVED

apatel
5/29/2019 12:41:05 PM



#9

Propene

Concen: 11.067 ppbv

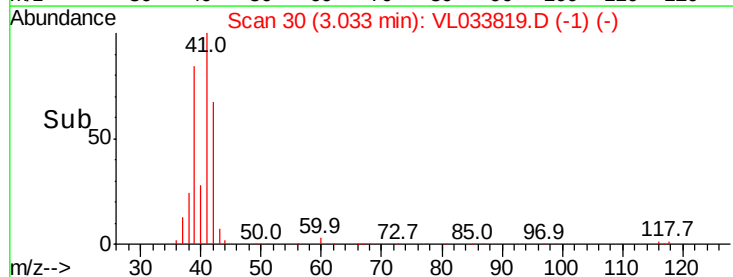
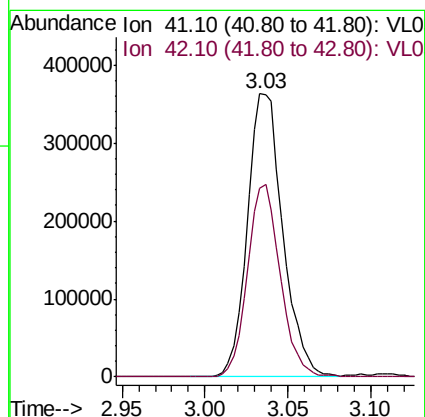
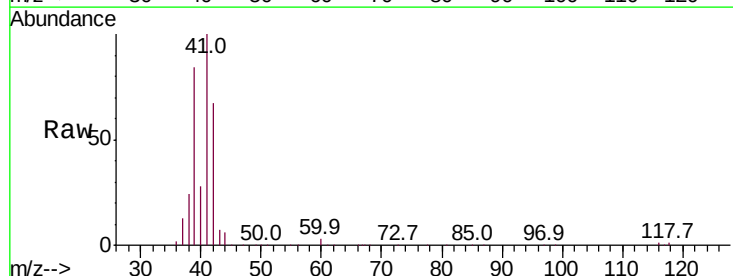
RT: 3.03 min Scan# 30

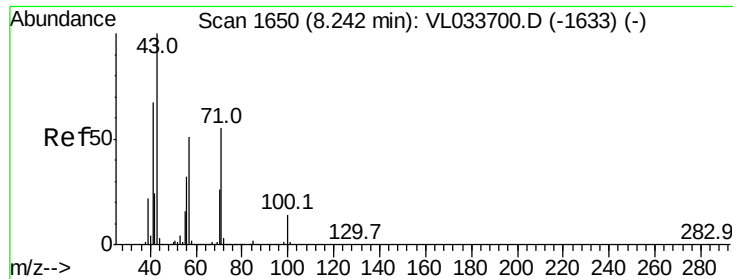
Delta R.T. 0.00 min

Lab File: VL033819.D

Acq: 29 May 2019 1:51

Tgt Ion:	41	Resp:	537405
Ion Ratio	Lower	Upper	
41	100		
42	63.2	56.1	84.1





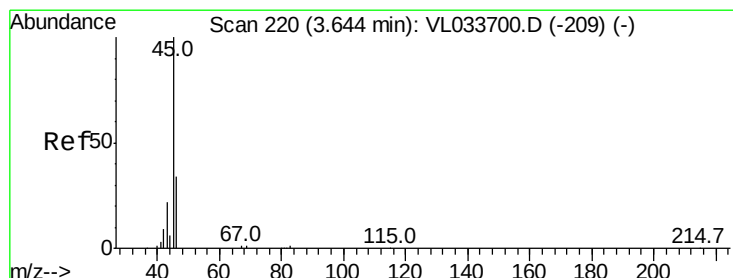
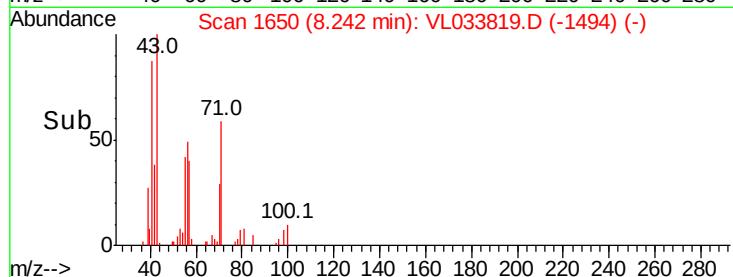
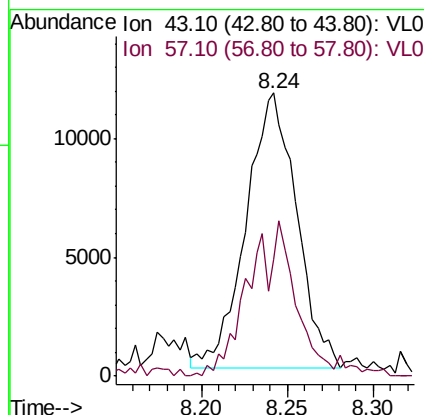
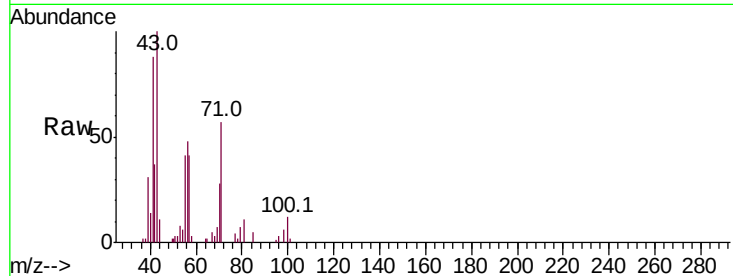
#10
Heptane
Concen: 0.173 ppbv
RT: 8.24 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VL033819.D
Acq: 29 May 2019 1:51

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-55DL

Tot Ion	43	Ratio	Lower	Upper
43	100			
57	54.2	41.4	62.0	

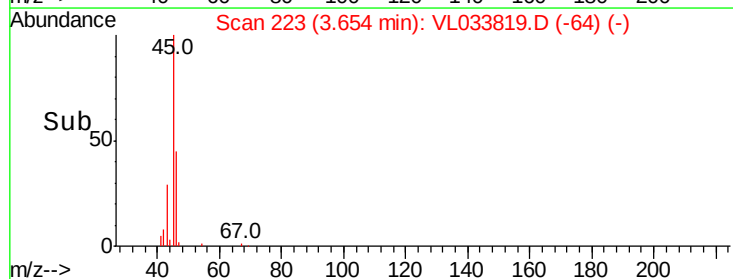
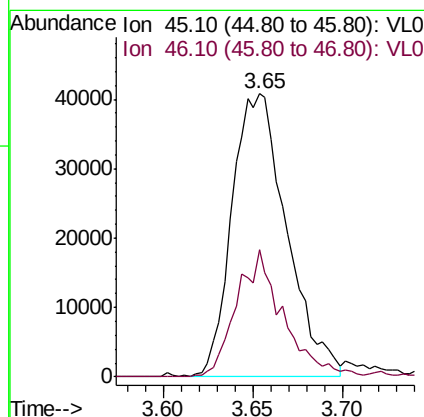
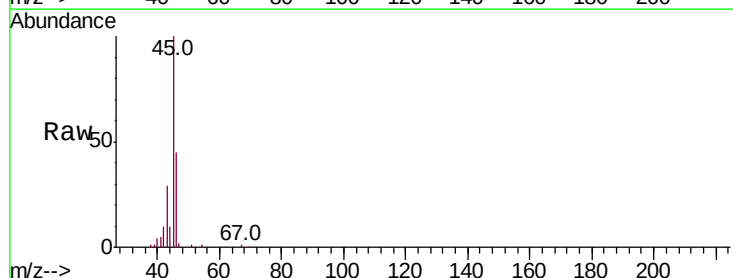
Manual Integrations
APPROVED

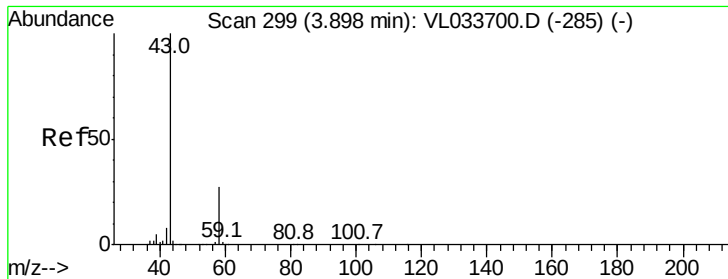
apatel
5/29/2019 12:41:05 PM



#13
Ethanol
Concen: 5.522 ppbv m
RT: 3.65 min Scan# 223
Delta R.T. 0.01 min
Lab File: VL033819.D
Acq: 29 May 2019 1:51

Tgt Ion	45	Ratio	Lower	Upper
45	100			
46	0.0	14.8	59.0#	





#15

Acetone

Concen: 33.878 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.01 min

Lab File: VL033819.D

Acq: 29 May 2019 1:51

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-55DL

Tot Ion: 43 Resp: 4684652

Ion Ratio Lower Upper

43 100

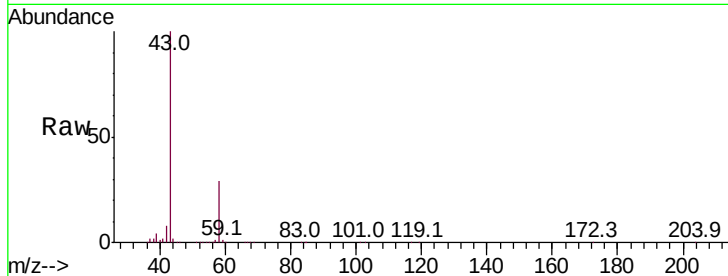
58 29.2 21.3 31.9

Manual Integrations

APPROVED

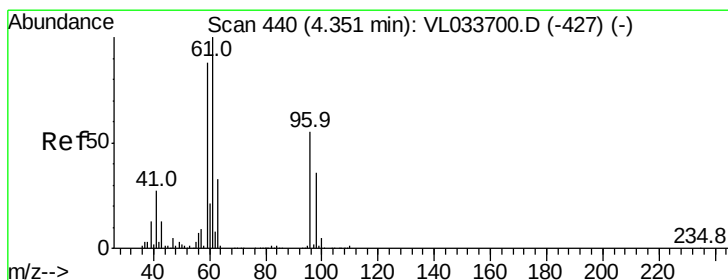
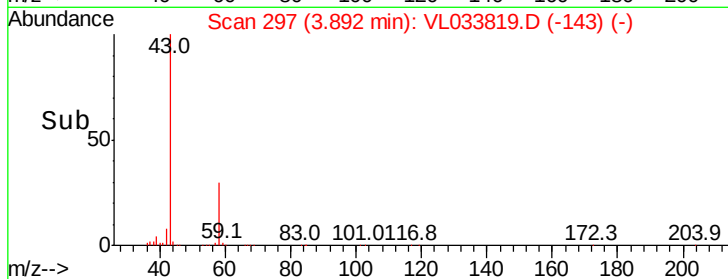
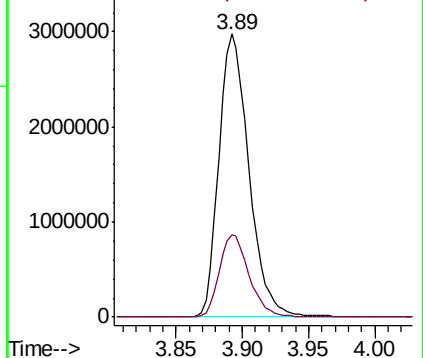
apatel

5/29/2019 12:41:05 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.238 ppbv m

RT: 4.38 min Scan# 448

Delta R.T. 0.03 min

Lab File: VL033819.D

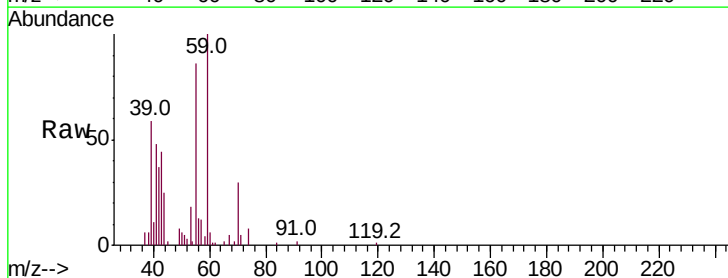
Acq: 29 May 2019 1:51

Tgt Ion: 59 Resp: 26620

Ion Ratio Lower Upper

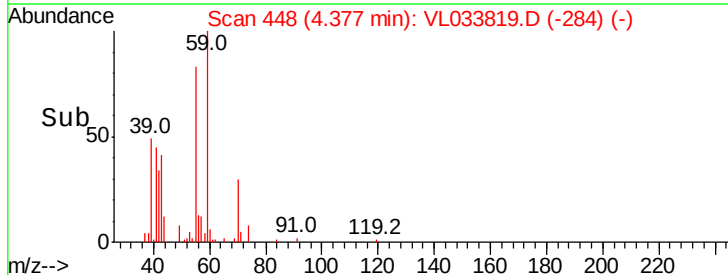
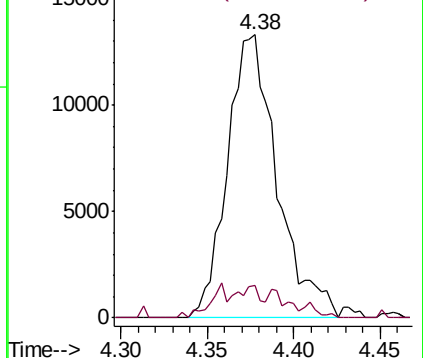
59 100

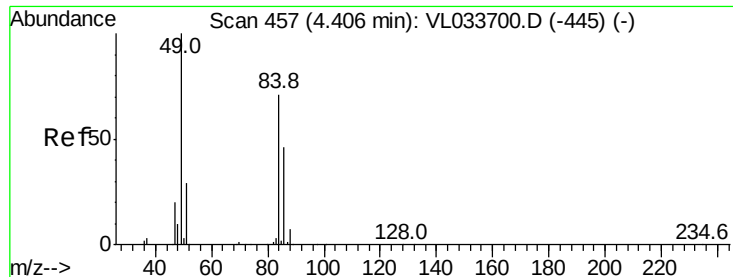
57 14.9 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





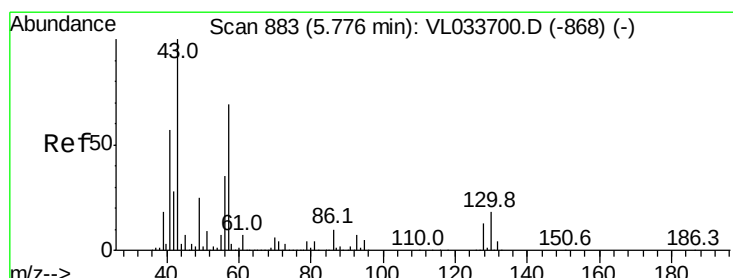
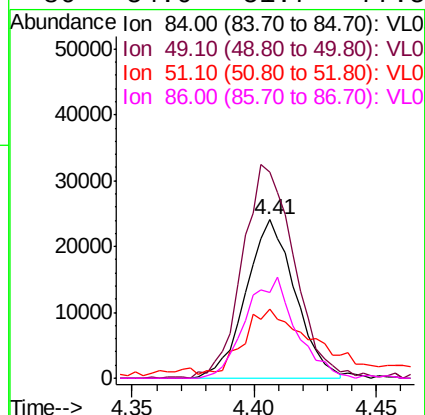
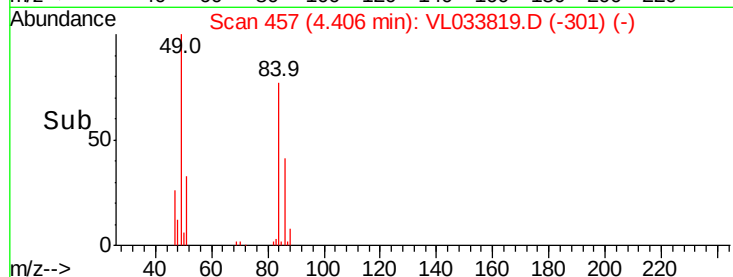
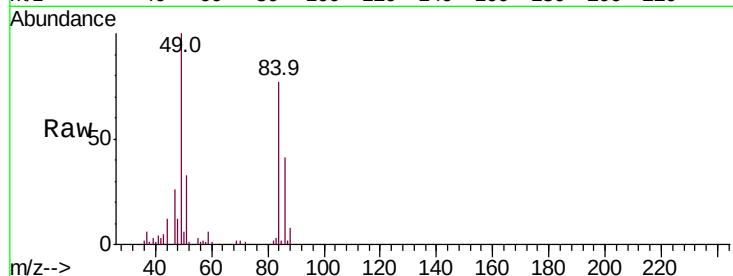
#20
Methylene Chloride
Concen: 0.630 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033819.D
Acq: 29 May 2019 1:51

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-55DL

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	130.3	112.8	169.2	
51	37.2	33.4	50.0	
86	54.0	51.7	77.5	

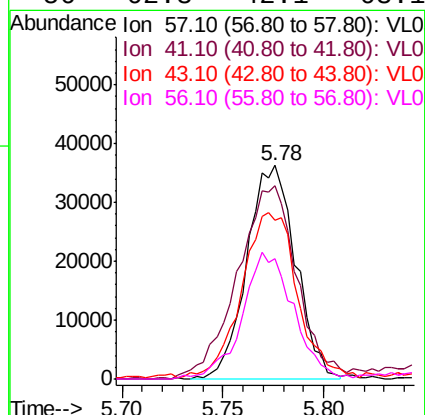
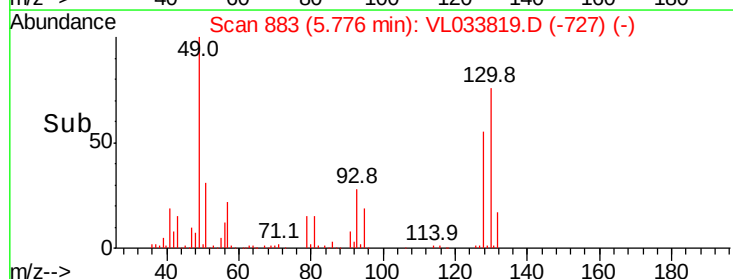
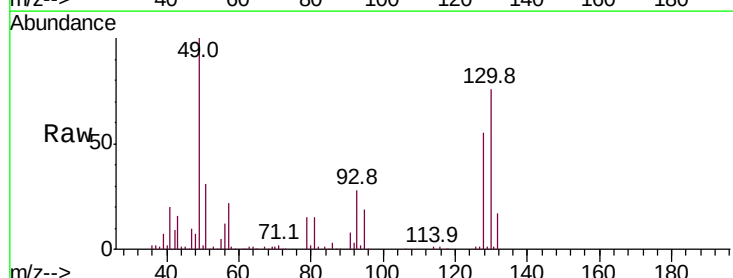
Manual Integrations
APPROVED

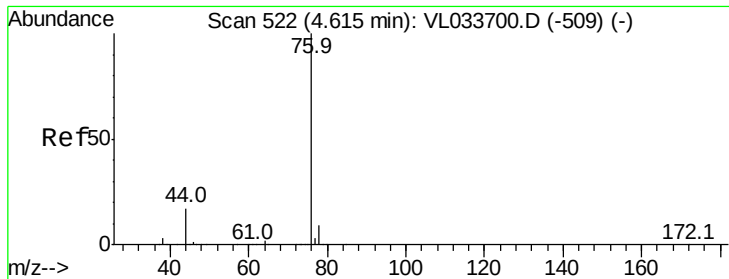
apatel
5/29/2019 12:41:05 PM



#26
Hexane
Concen: 0.587 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033819.D
Acq: 29 May 2019 1:51

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	109.4	69.8	104.6#	
43	89.4	181.8	272.6#	
56	62.3	42.1	63.1	





#27

Carbon Disulfide

Concen: 0.135 ppbv m

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033819.D

Acq: 29 May 2019 1:51

Instrument :

MSVOA_L

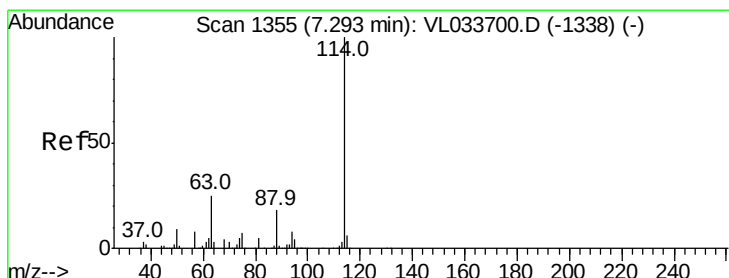
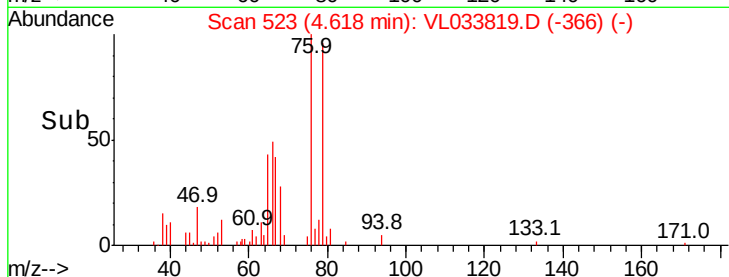
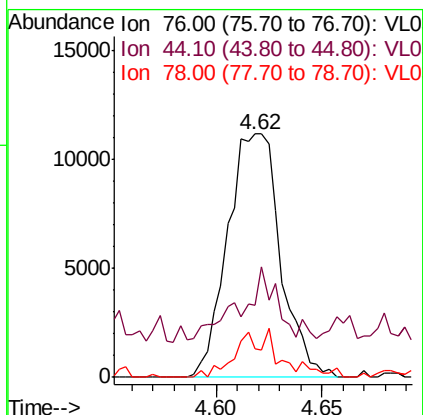
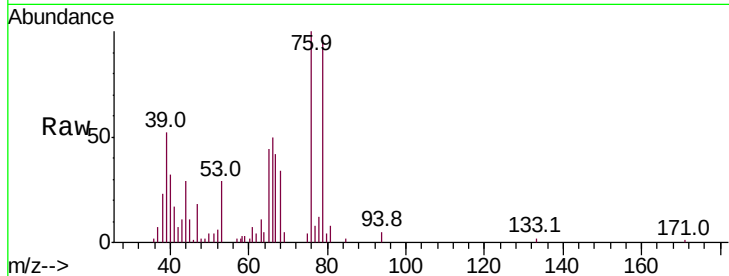
ClientSampleId :

BPS1-SG-3011-55DL

Tot Ion:	76	Resp:	19339
Ion Ratio	Lower	Upper	
76	100		
44	24.2	13.8	20.8#
78	15.9	7.4	11.0#

Manual Integrations
APPROVED

apatel
5/29/2019 12:41:05 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

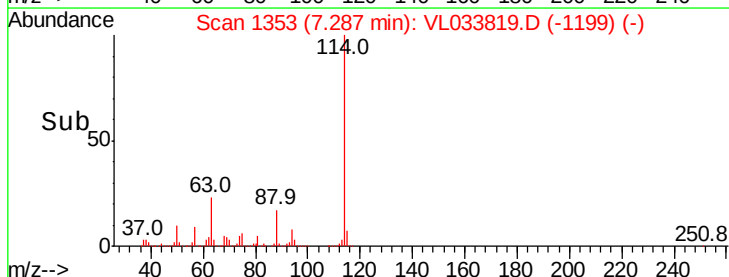
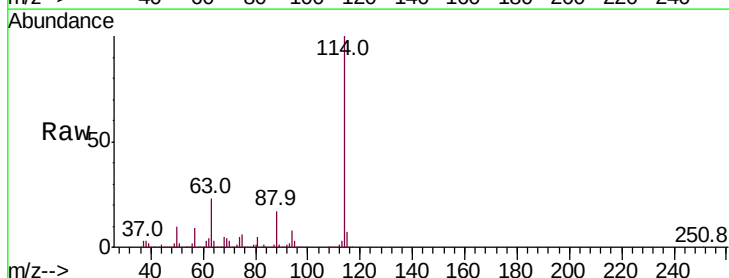
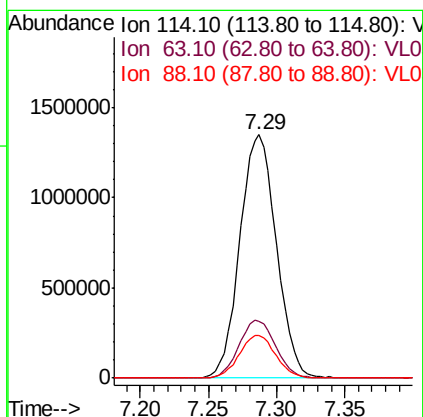
RT: 7.29 min Scan# 1353

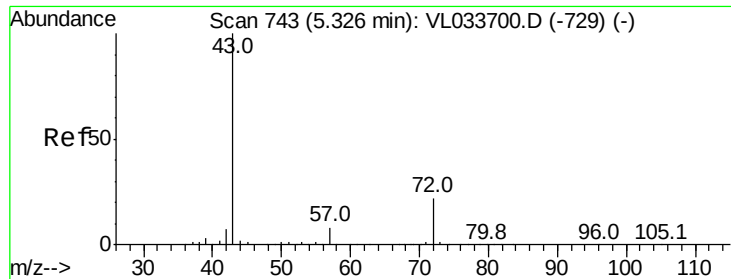
Delta R.T. -0.01 min

Lab File: VL033819.D

Acq: 29 May 2019 1:51

Tgt Ion:	114	Resp:	2507876
Ion Ratio	Lower	Upper	
114	100		
63	24.0	20.9	31.3
88	17.5	14.3	21.5





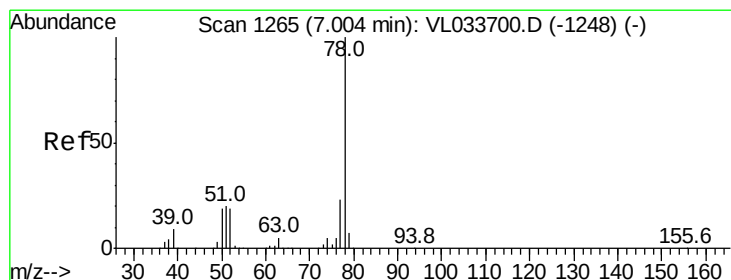
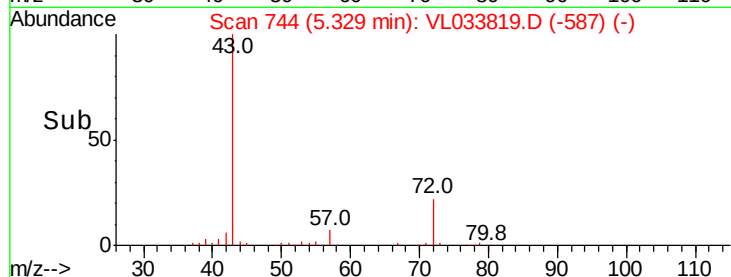
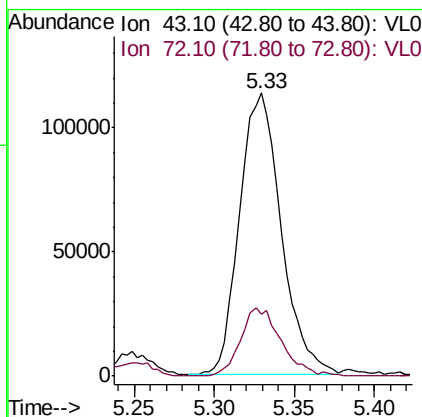
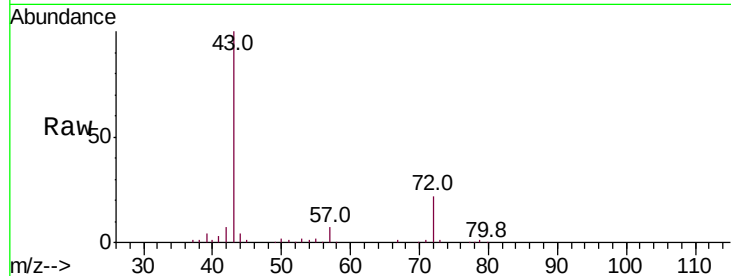
#34
2-Butanone
Concen: 1.300 ppbv
RT: 5.33 min Scan# 744
Delta R.T. 0.00 min
Lab File: VL033819.D
Acq: 29 May 2019 1:51

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-55DL

Tot Ion: 43 Resp: 202060
Ion Ratio Lower Upper
43 100
72 23.6 17.8 26.6

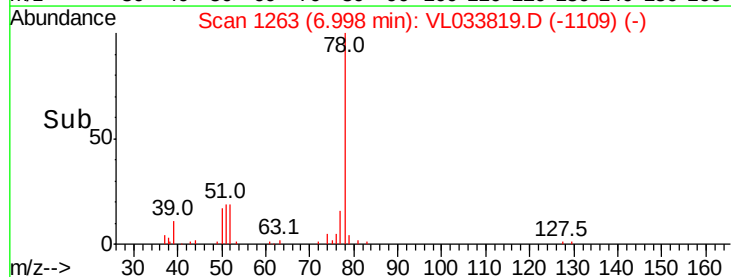
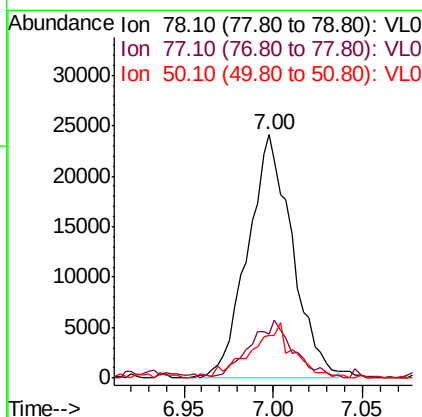
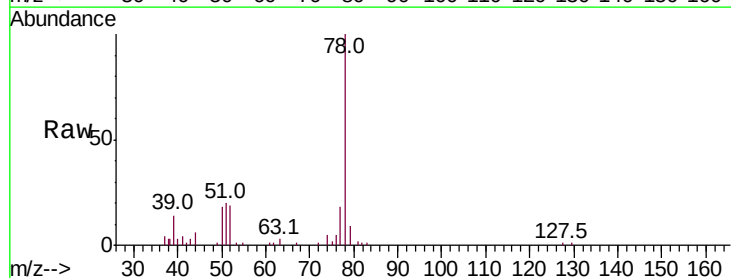
Manual Integrations
APPROVED

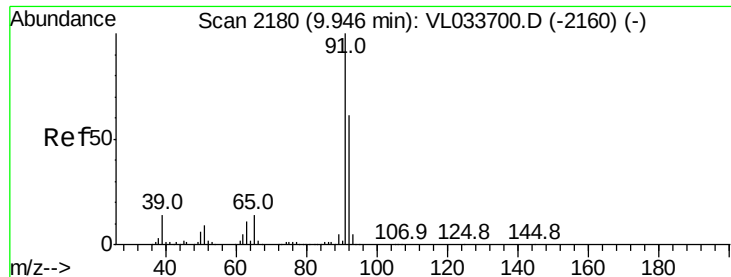
apatel
5/29/2019 12:41:05 PM



#36
Benzene
Concen: 0.185 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033819.D
Acq: 29 May 2019 1:51

Tgt Ion: 78 Resp: 42180
Ion Ratio Lower Upper
78 100
77 16.8 18.4 27.6#
50 17.8 15.5 23.3





#53

Toluene

Concen: 1.895 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033819.D

Acq: 29 May 2019 1:51

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-55DL

Tot Ion: 91 Resp: 466180

Ion Ratio Lower Upper

91 100

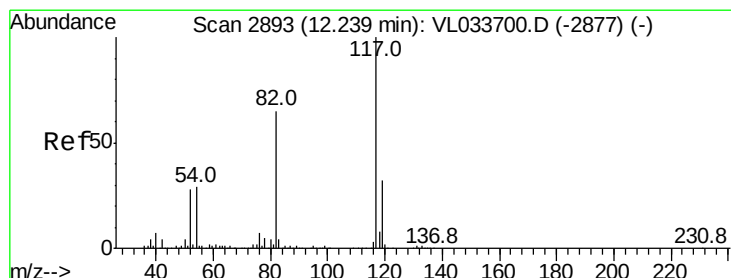
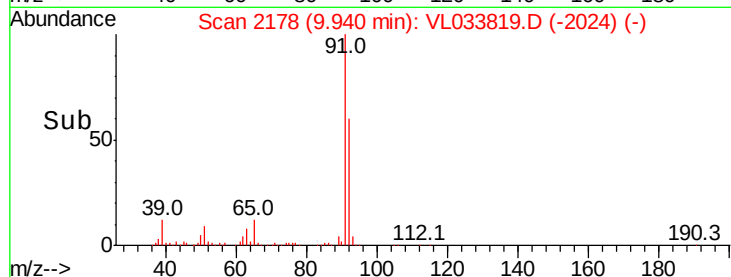
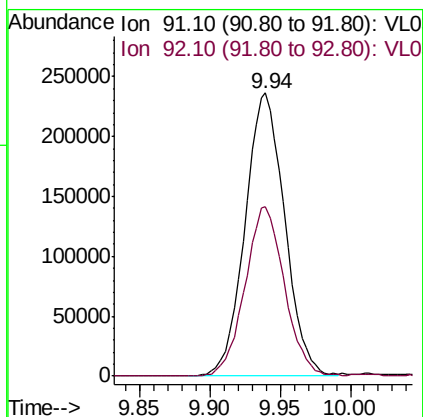
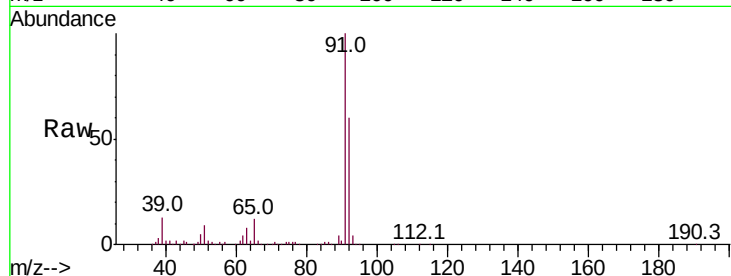
92 59.3 47.6 71.4

Manual Integrations

APPROVED

apatel

5/29/2019 12:41:05 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033819.D

Acq: 29 May 2019 1:51

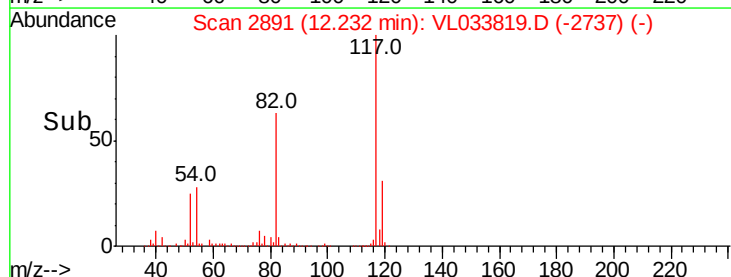
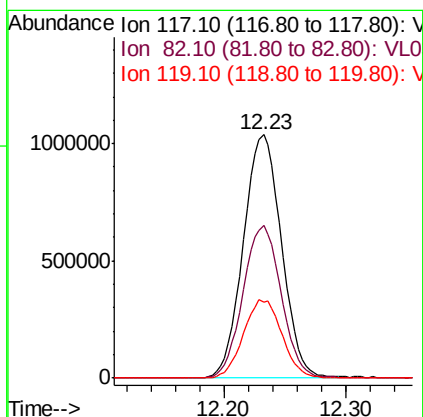
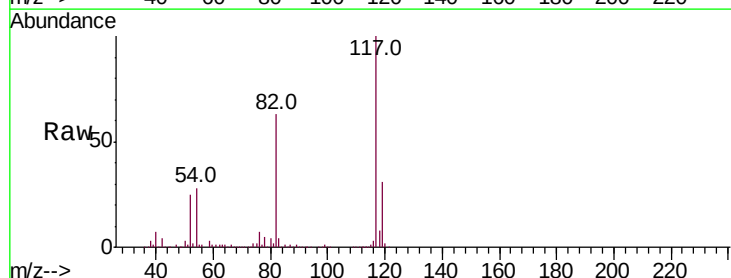
Tgt Ion: 117 Resp: 2241538

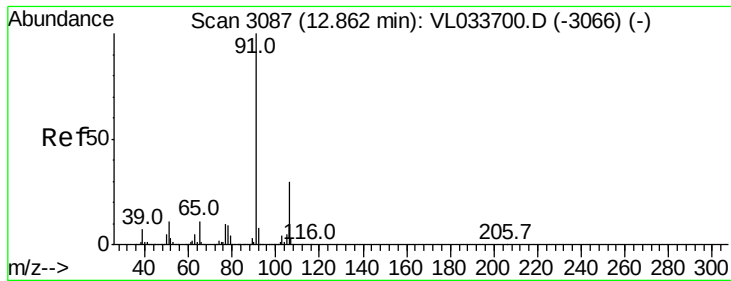
Ion Ratio Lower Upper

117 100

82 63.5 49.4 74.0

119 32.5 24.9 37.3





#58

Ethyl Benzene

Concen: 0.161 ppbv m

RT: 12.85 min Scan# 3083

Delta R.T. -0.01 min

Lab File: VL033819.D

Acq: 29 May 2019 1:51

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-55DL

Tot Ion: 91 Resp: 47898

Ion Ratio Lower Upper

91 100

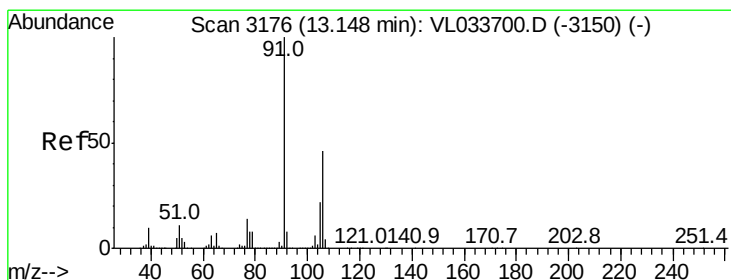
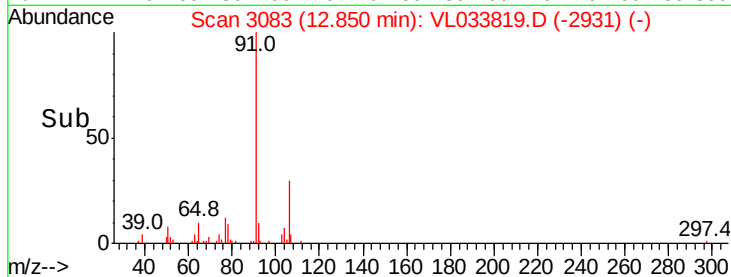
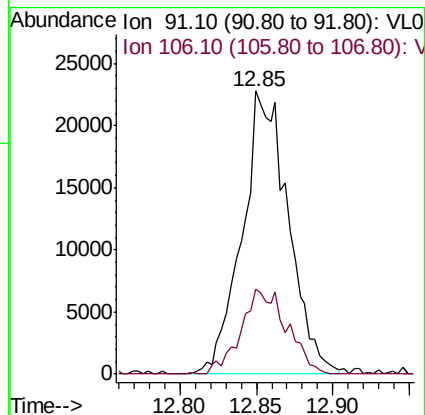
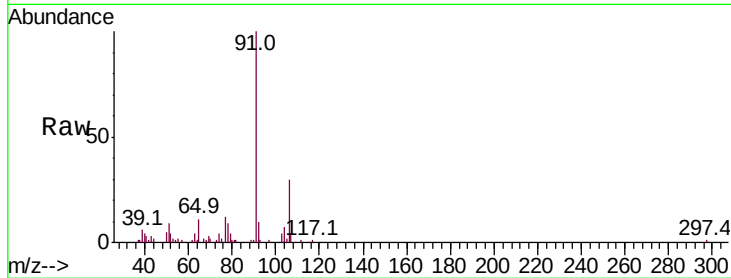
106 30.2 23.9 35.9

Manual Integrations

APPROVED

apatel

5/29/2019 12:41:05 PM



#59

m/p-Xylene

Concen: 0.616 ppbv m

RT: 13.12 min Scan# 3166

Delta R.T. -0.03 min

Lab File: VL033819.D

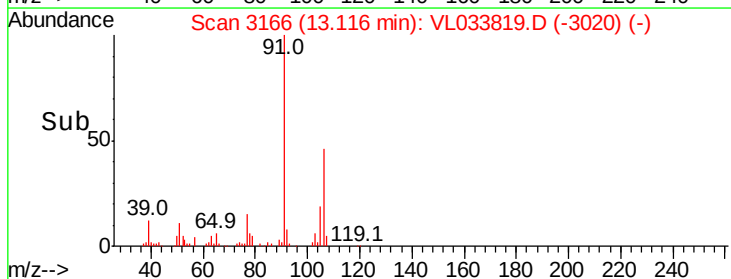
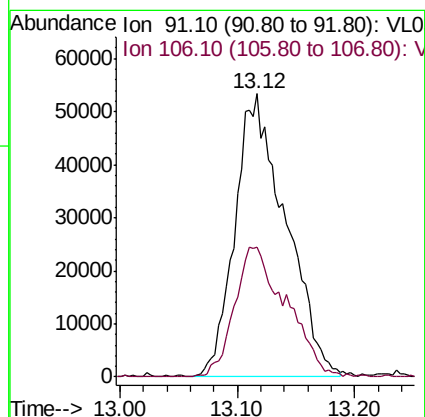
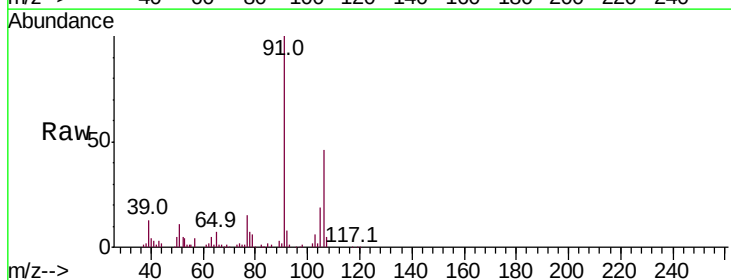
Acq: 29 May 2019 1:51

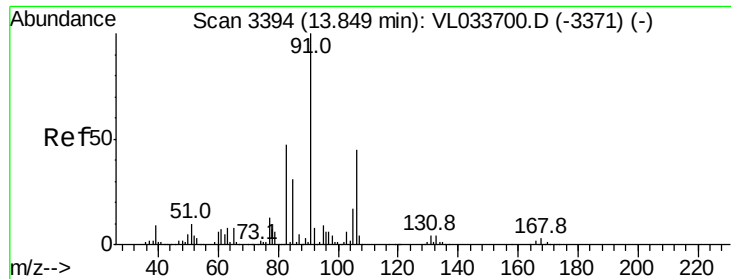
Tgt Ion: 91 Resp: 159828

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.6#





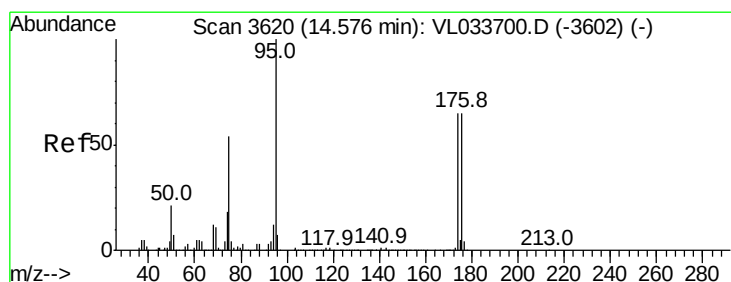
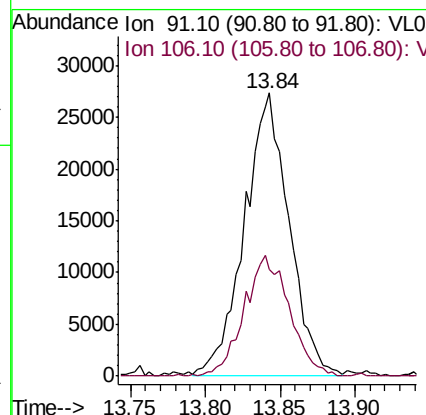
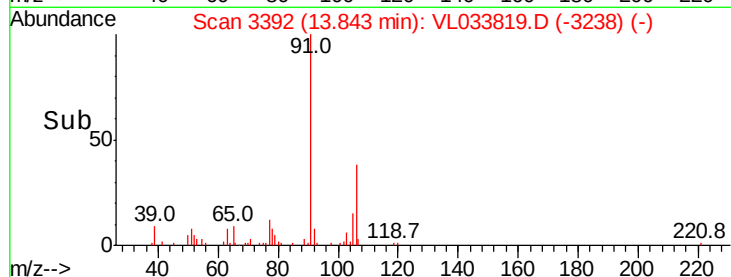
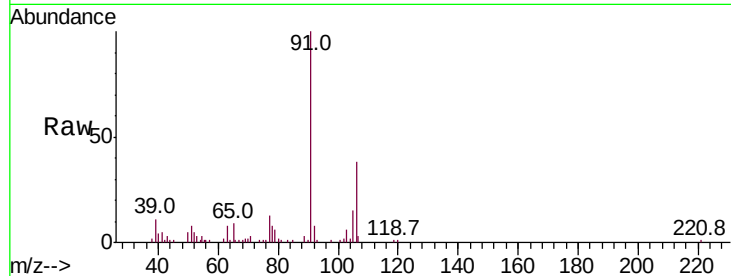
#60
o-Xylene
Concen: 0.218 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033819.D
Acq: 29 May 2019 1:51

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3011-55DL

Tot Ion: 91 Resp: 56990
Ion Ratio Lower Upper
91 100
106 43.2 21.6 64.8

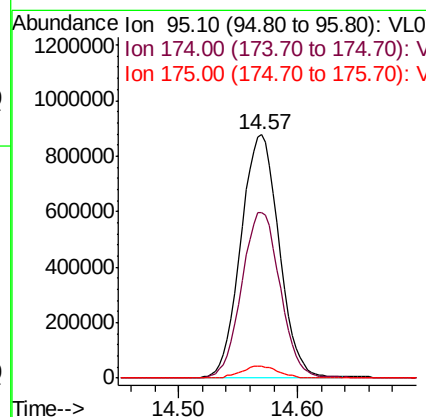
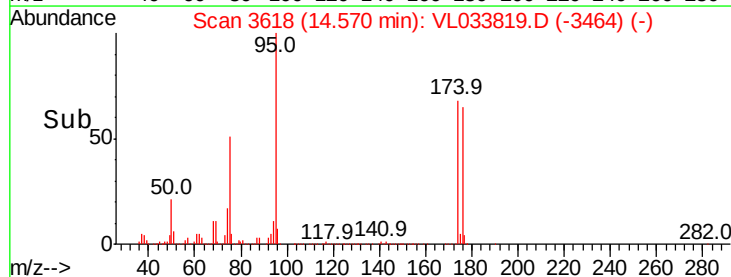
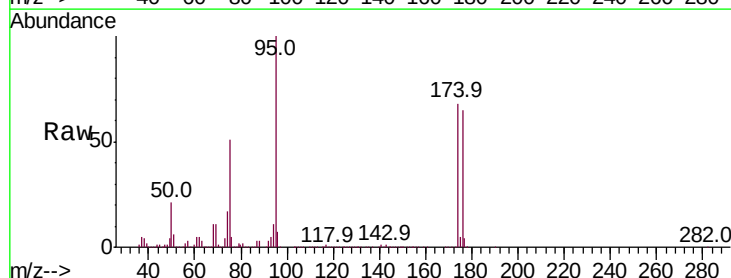
Manual Integrations
APPROVED

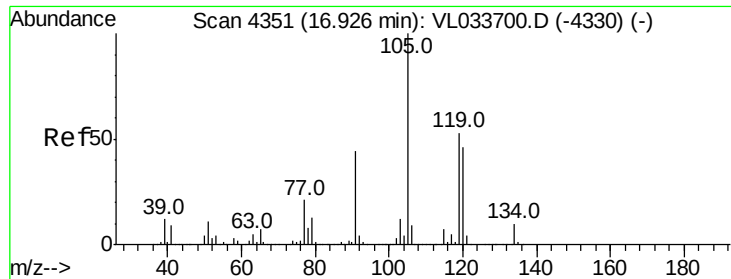
apatel
5/29/2019 12:41:05 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.759 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033819.D
Acq: 29 May 2019 1:51

Tgt Ion: 95 Resp: 1955022
Ion Ratio Lower Upper
95 100
174 69.1 53.9 80.9
175 5.0 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.216 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033819.D

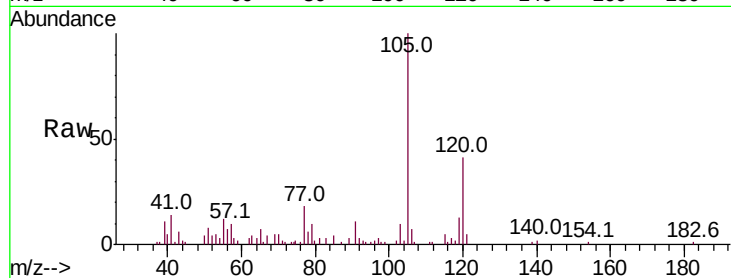
Acq: 29 May 2019 1:51

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3011-55DL



Tot Ion:105 Resp: 68445

Ion Ratio Lower Upper

105 100

120 41.3 36.8 55.2

91 9.6 35.4 53.0#

77 15.7 16.8 25.2#

Manual Integrations
APPROVED

apatel
5/29/2019 12:41:05 PM

