

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\
 Data File : VL033871.D
 Acq On : 30 May 2019 15:22
 Operator : SY/AP
 Sample : K3067-08DL DUP 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-22-20190523-0

Manual Integrations
 APPROVED

apatel
 5/31/2019 2:51:06 PM

Quant Time: May 31 08:18:25 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	5.75	49	626837	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1445444	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1493718	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1221853	10.09	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	12176m	0.170	ppbv	
13) Ethanol	3.65	45	186347	18.878	ppbv	96
15) Acetone	3.90	43	182847	2.102	ppbv	100
19) Isopropyl Alcohol	4.02	45	87162	1.554	ppbv #	91
26) Hexane	5.77	57	113089	1.722	ppbv #	45
29) Chloroform	5.84	83	38348	0.317	ppbv	97
32) 1,1,1-Trichloroethane	6.61	97	18587m	0.154	ppbv	
34) 2-Butanone	5.33	43	31555	0.352	ppbv	94
35) Carbon Tetrachloride	7.12	117	5032m	0.043	ppbv	
38) Trichloroethene	7.94	130	6467m	0.133	ppbv	
52) Tetrachloroethene	11.36	164	251436	5.440	ppbv	98
53) Toluene	9.93	91	60879m	0.429	ppbv	
59) m/p-Xylene	13.12	91	18093m	0.105	ppbv	

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

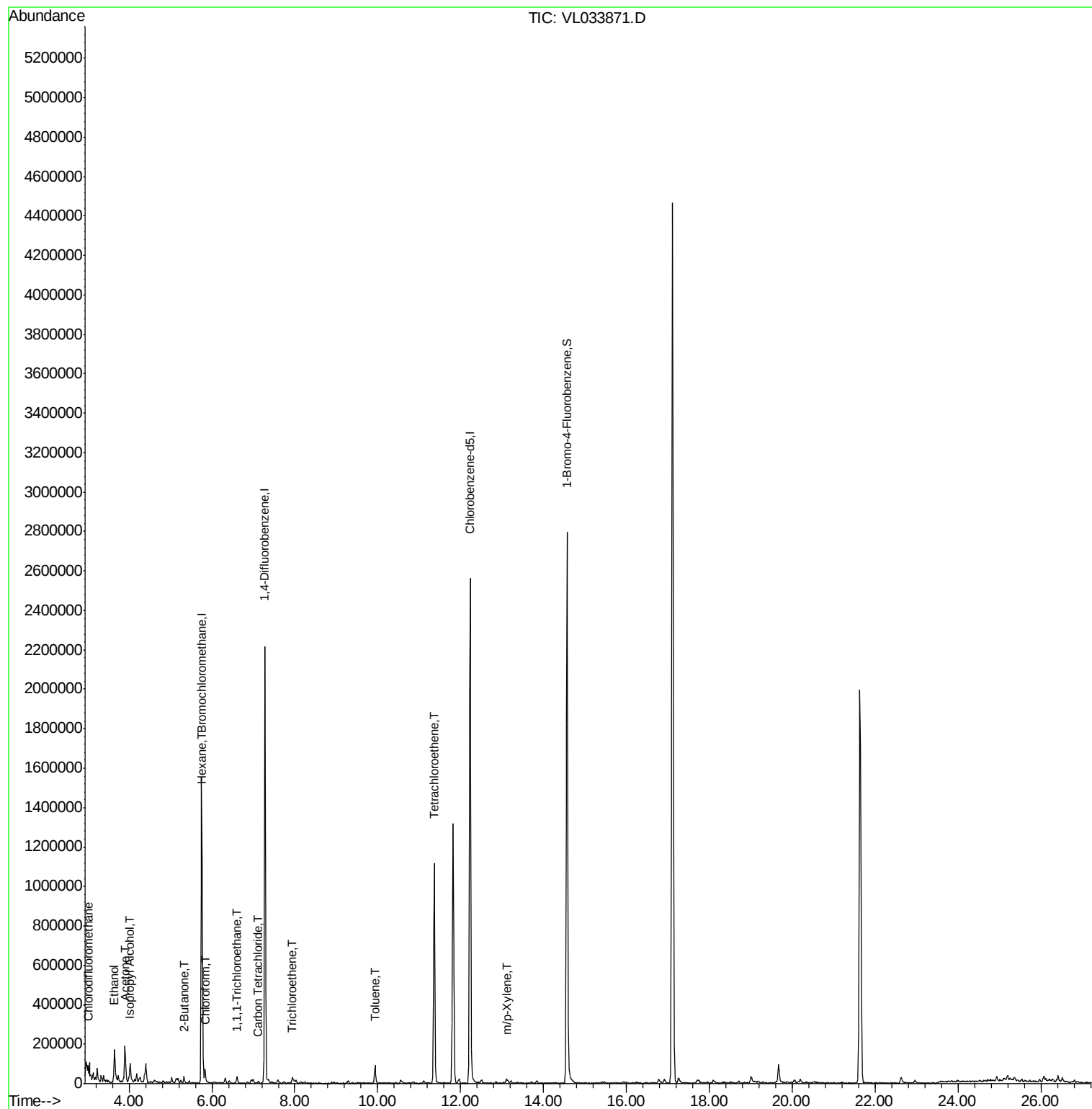
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052919\
Data File : VL033871.D
Acq On : 30 May 2019 15:22
Operator : SY/AP
Sample : K3067-08DLUP 4X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

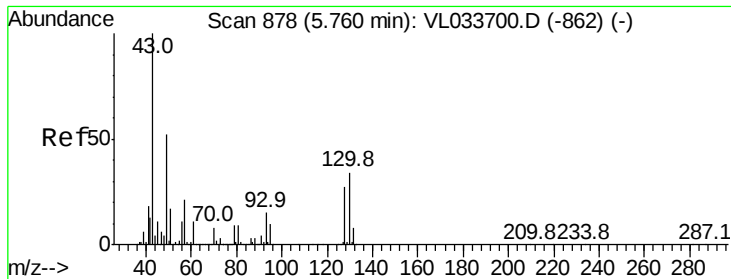
Instrument :
MSVOA_L
ClientSampleId :
SG-22-20190523-0

Manual Integrations
APPROVED

apatel
5/31/2019 2:51:06 PM

Quant Time: May 31 08:18:25 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: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Instrument :

MSVOA_L

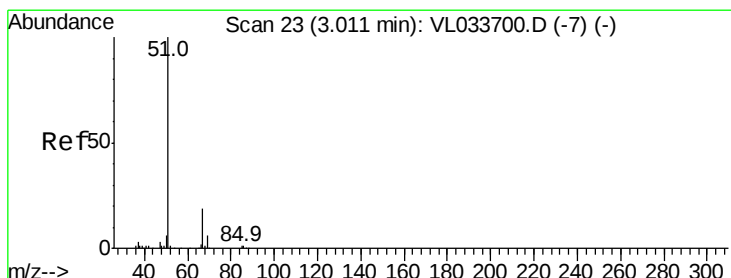
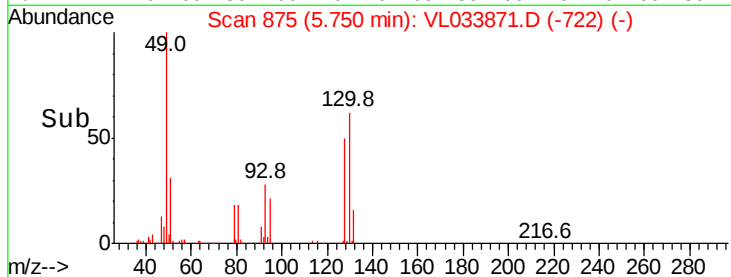
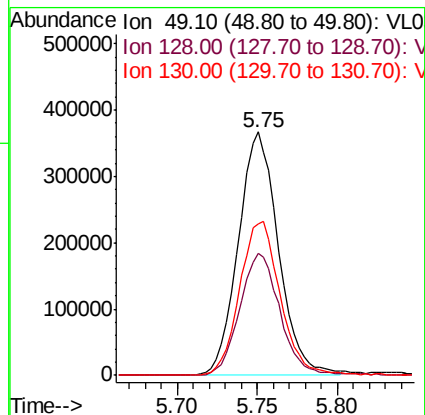
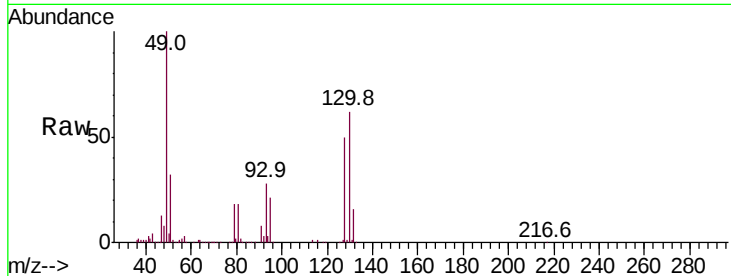
ClientSampleId :

SG-22-20190523-0

Tot Ion:	49	Resp:	626837
Ion Ratio	Lower	Upper	
49	100		
128	50.6	25.2	75.6
130	64.9	32.5	97.5

Manual Integrations
APPROVED

apatel
5/31/2019 2:51:06 PM



#3

Chlorodifluoromethane

Concen: 0.170 ppbv m

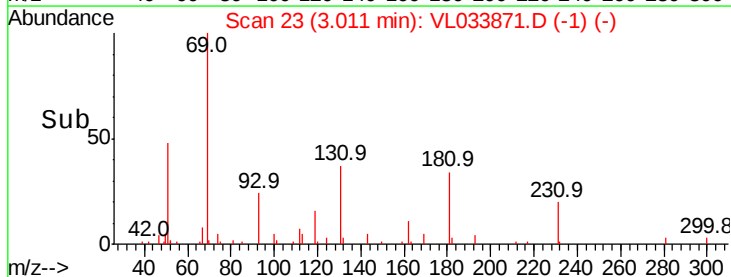
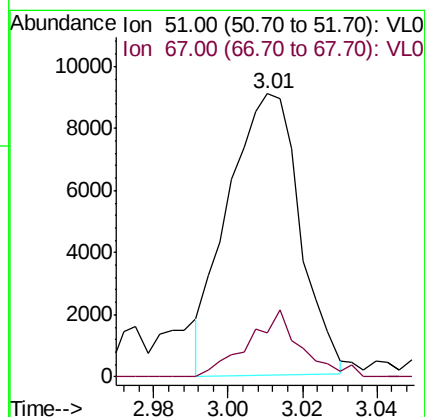
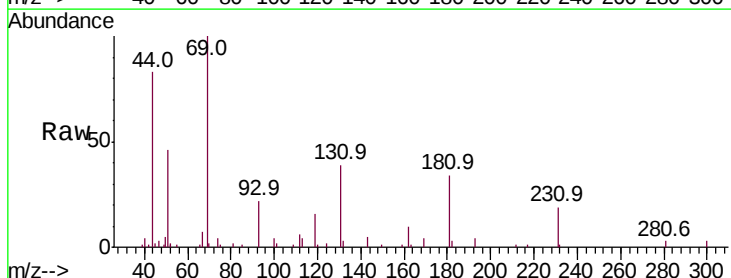
RT: 3.01 min Scan# 23

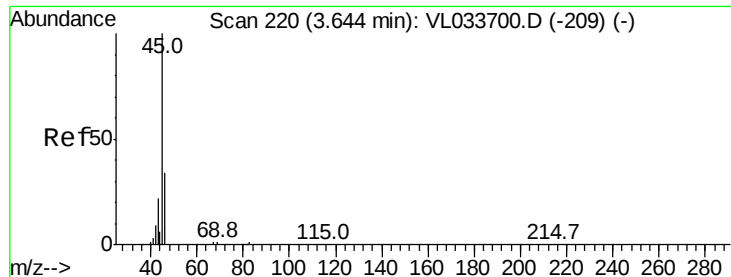
Delta R.T. 0.00 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Tgt Ion:	51	Resp:	12176
Ion Ratio	Lower	Upper	
51	100		
67	17.3	15.6	23.4





#13

Ethanol

Concen: 18.878 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.00 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Instrument :

MSVOA_L

ClientSampleId :

SG-22-20190523-0

Tot Ion: 45 Resp: 186347

Ion Ratio Lower Upper

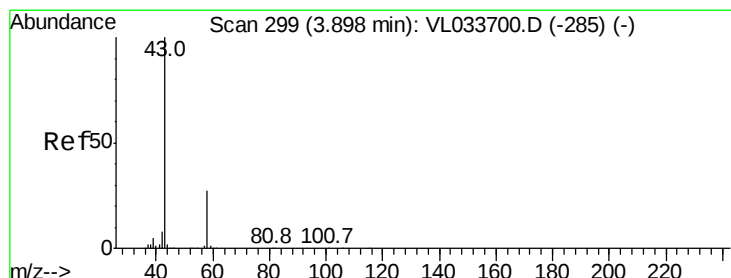
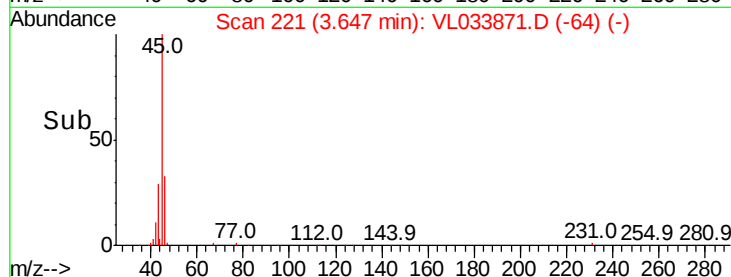
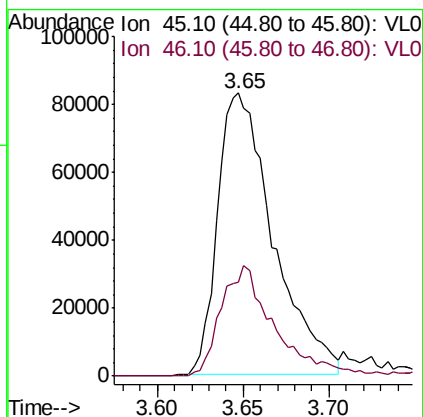
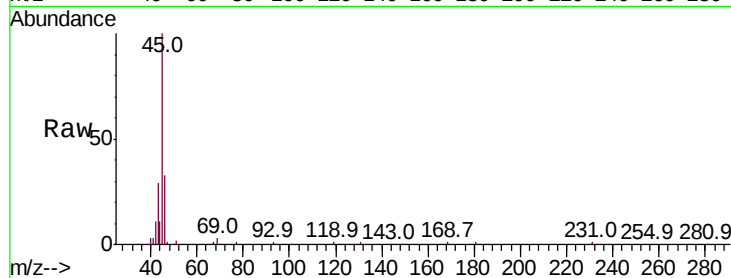
45 100

46 39.2 14.8 59.0

Manual Integrations
APPROVED

apatel

5/31/2019 2:51:06 PM



#15

Acetone

Concen: 2.102 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033871.D

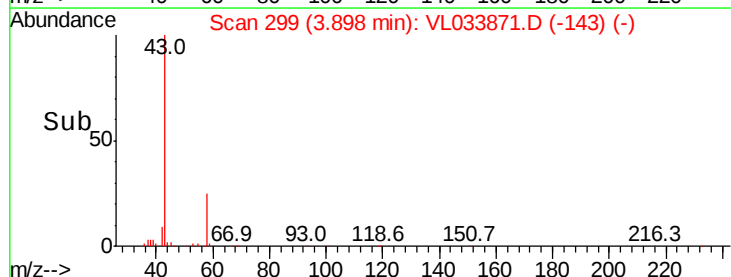
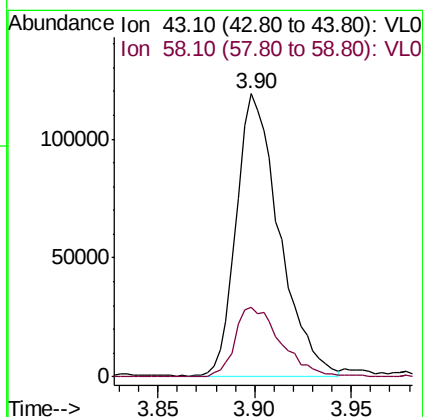
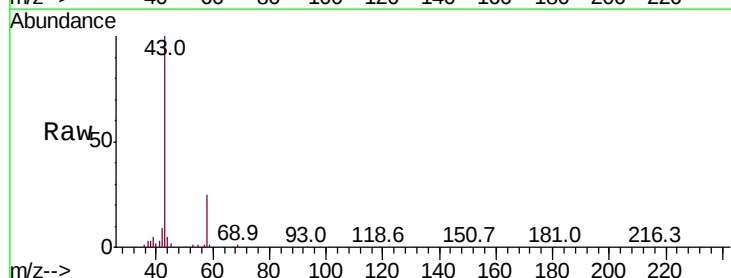
Acq: 30 May 2019 15:22

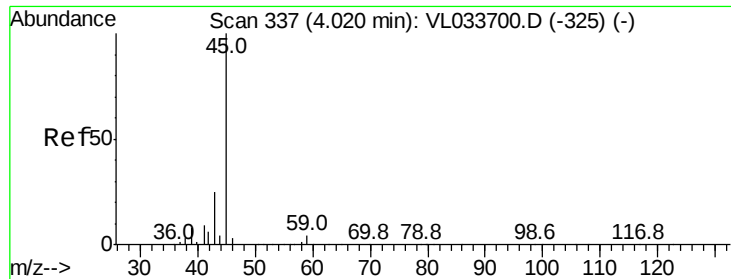
Tgt Ion: 43 Resp: 182847

Ion Ratio Lower Upper

43 100

58 26.7 21.3 31.9





#19

Isopropyl Alcohol

Concen: 1.554 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Instrument :

MSVOA_L

ClientSampleId :

SG-22-20190523-0

Tot Ion: 45 Resp: 87162

Ion Ratio Lower Upper

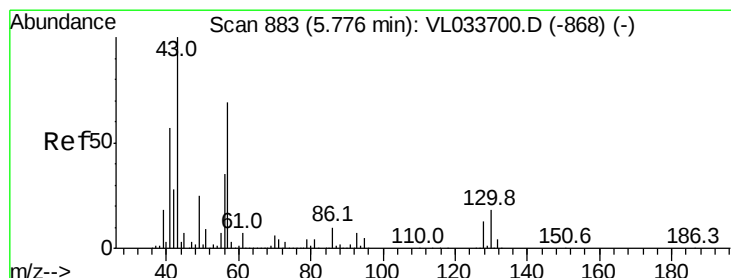
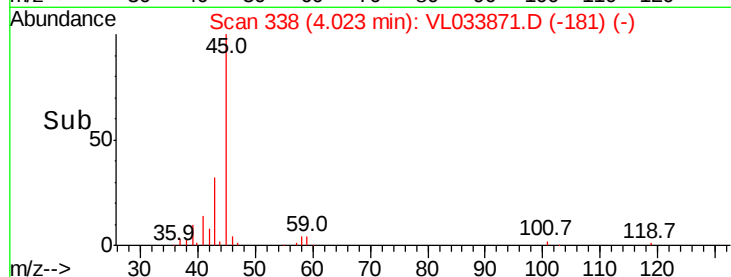
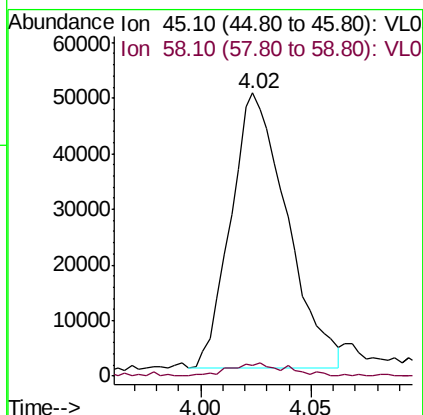
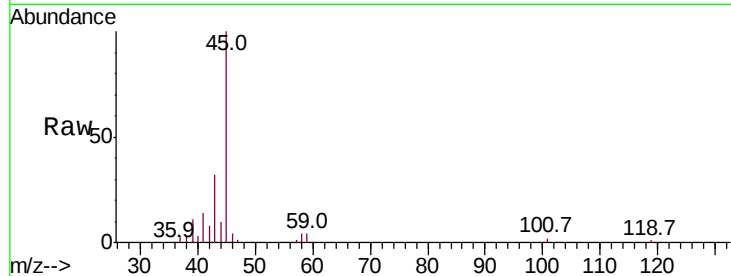
45 100

58 5.1 1.6 2.4#

Manual Integrations
APPROVED

apatel

5/31/2019 2:51:06 PM



#26

Hexane

Concen: 1.722 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Tgt Ion: 57 Resp: 113089

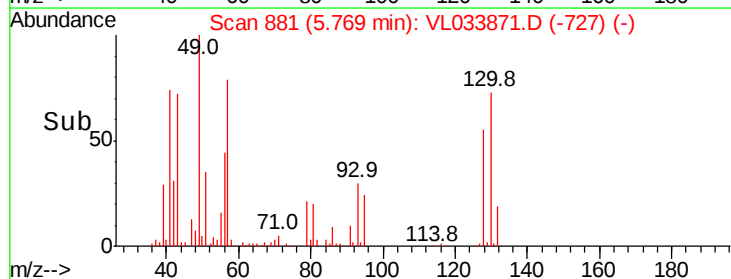
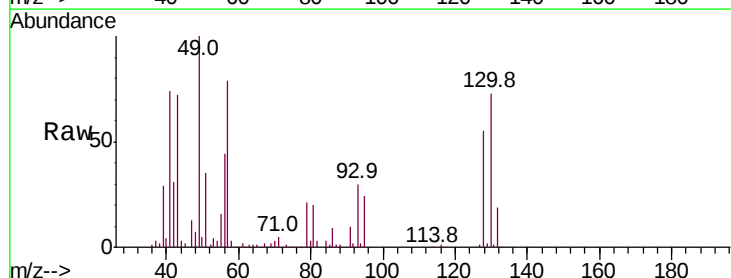
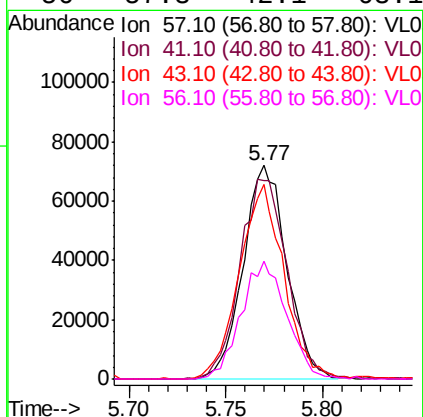
Ion Ratio Lower Upper

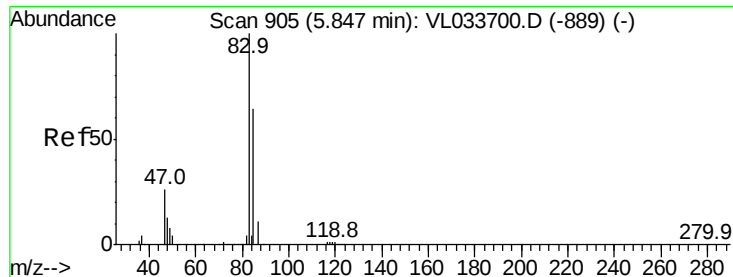
57 100

41 102.1 69.8 104.6

43 94.0 181.8 272.6#

56 57.3 42.1 63.1





#29

Chloroform

Concen: 0.317 ppbv

RT: 5.84 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Instrument :

MSVOA_L

ClientSampleId :

SG-22-20190523-0

Tot Ion: 83 Resp: 38348

Ion Ratio Lower Upper

83 100

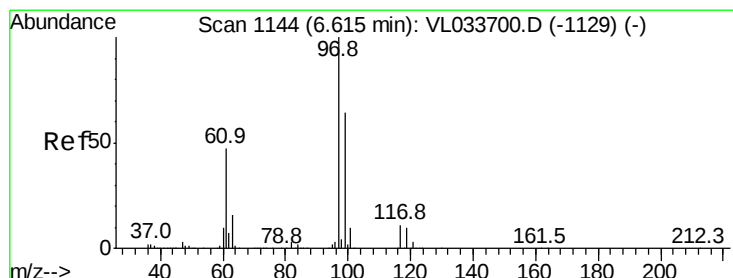
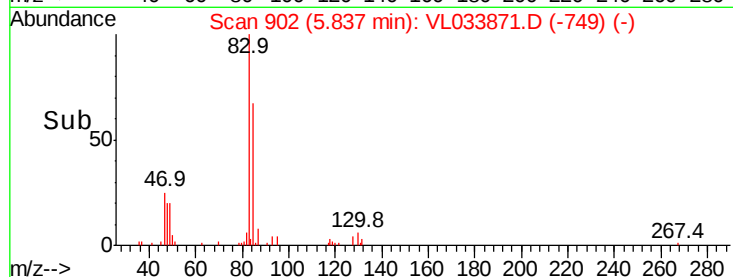
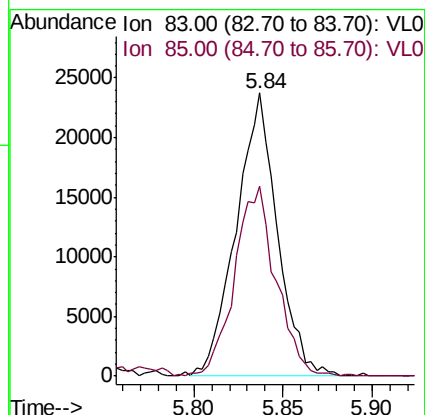
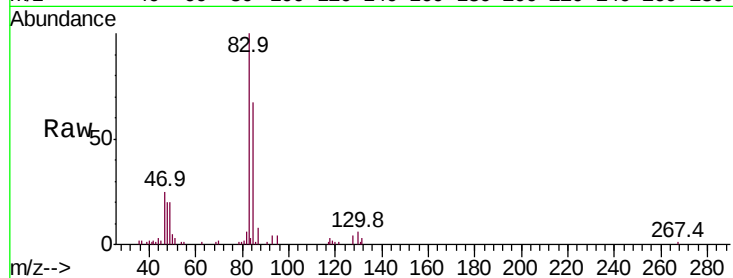
85 67.1 51.5 77.3

Manual Integrations

APPROVED

apatel

5/31/2019 2:51:06 PM



#32

1,1,1-Trichloroethane

Concen: 0.154 ppbv m

RT: 6.61 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

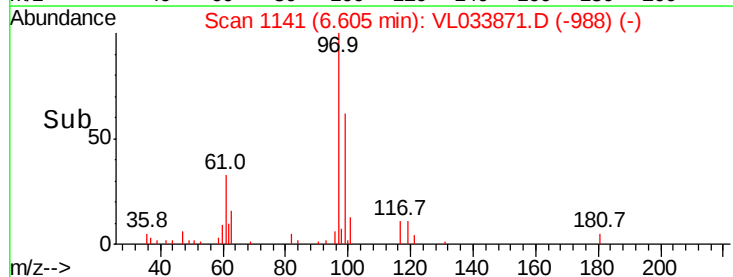
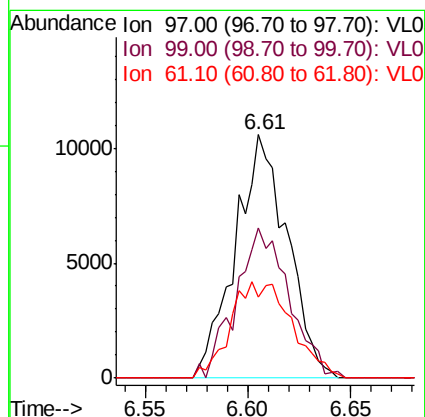
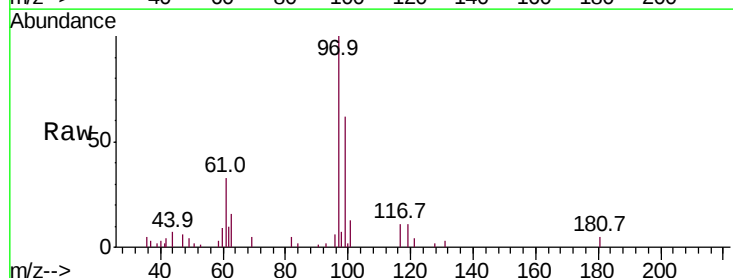
Tgt Ion: 97 Resp: 18587

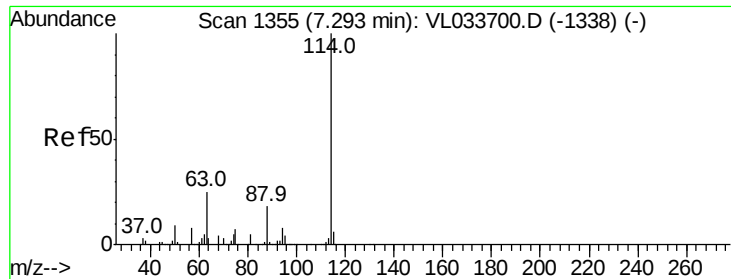
Ion Ratio Lower Upper

97 100

99 63.2 51.5 77.3

61 46.4 37.8 56.8





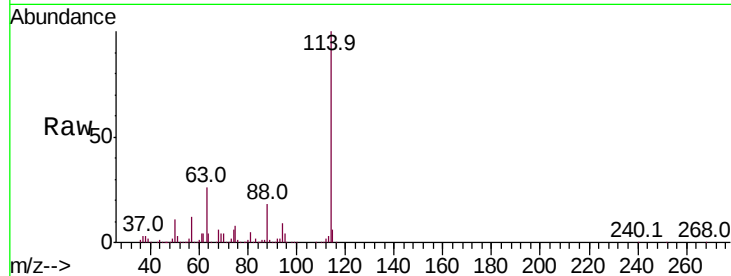
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033871.D
 Acq: 30 May 2019 15:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-22-20190523-0

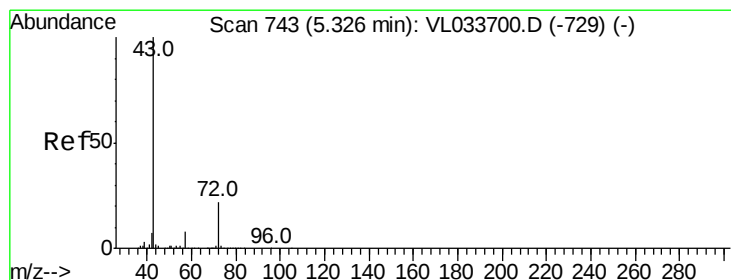
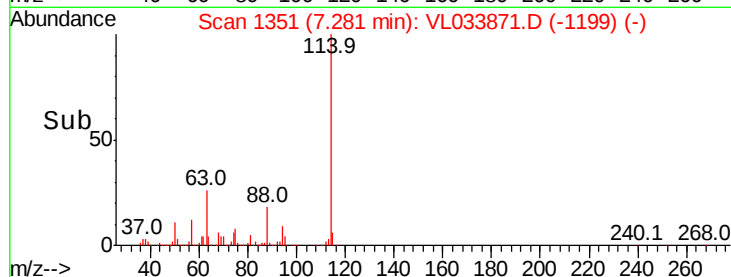
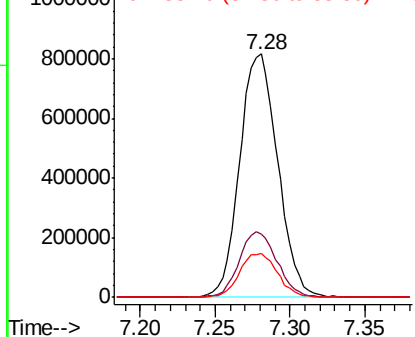
Tot Ion:114 Resp: 1445444
 Ion Ratio Lower Upper
 114 100
 63 26.8 20.9 31.3
 88 18.1 14.3 21.5

Manual Integrations
 APPROVED

apatel
 5/31/2019 2:51:06 PM

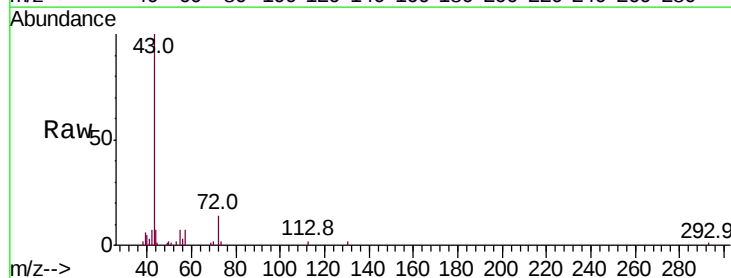


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

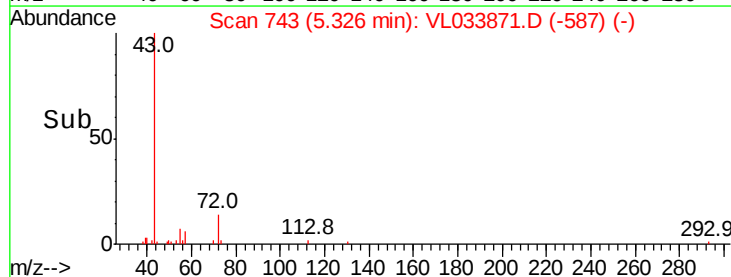
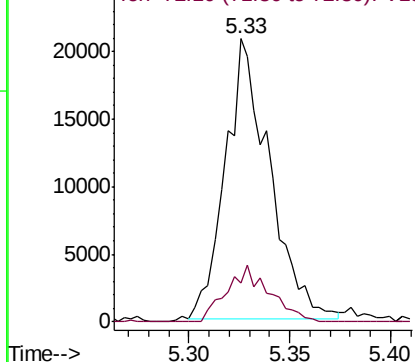


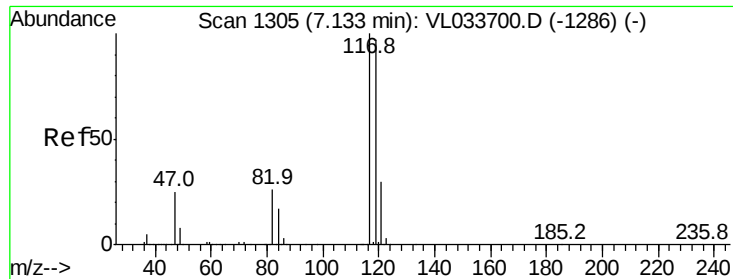
#34
 2-Butanone
 Concen: 0.352 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL033871.D
 Acq: 30 May 2019 15:22

Tgt Ion: 43 Resp: 31555
 Ion Ratio Lower Upper
 43 100
 72 19.5 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.043 ppbv m

RT: 7.12 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Instrument :

MSVOA_L

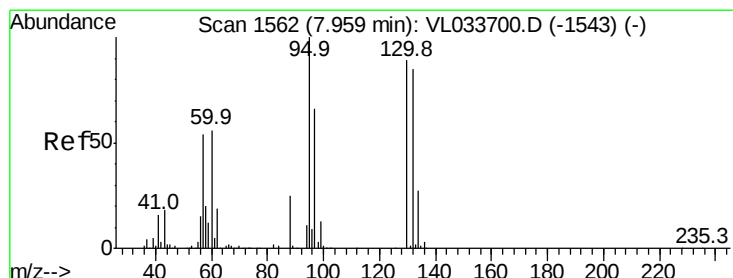
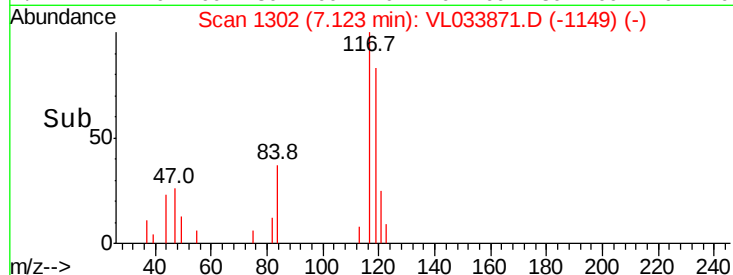
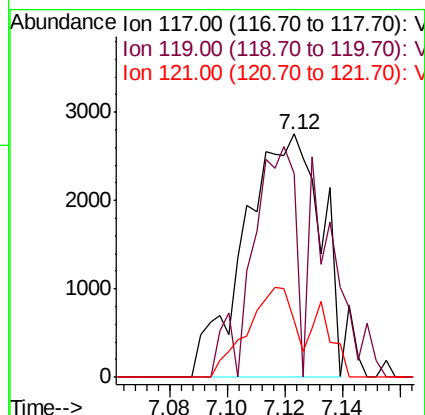
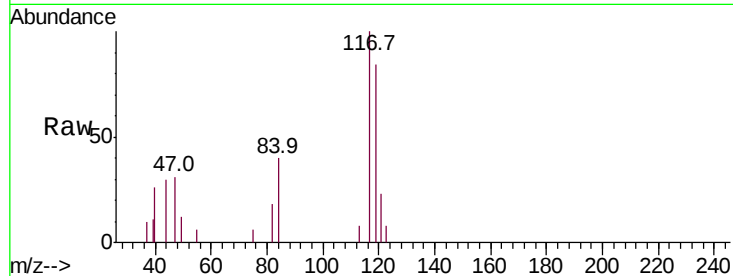
ClientSampleId :

SG-22-20190523-0

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.7	77.2	115.8
121	23.3	24.1	36.1#

Manual Integrations
APPROVED

apatel
5/31/2019 2:51:06 PM



#38

Trichloroethene

Concen: 0.133 ppbv m

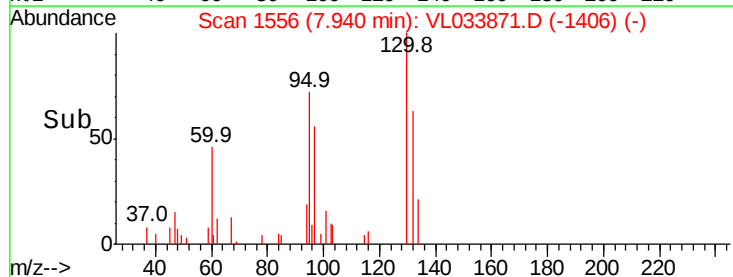
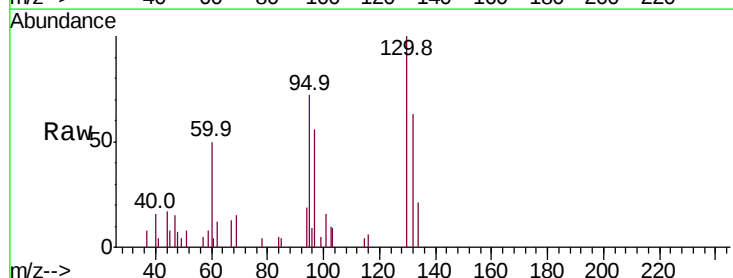
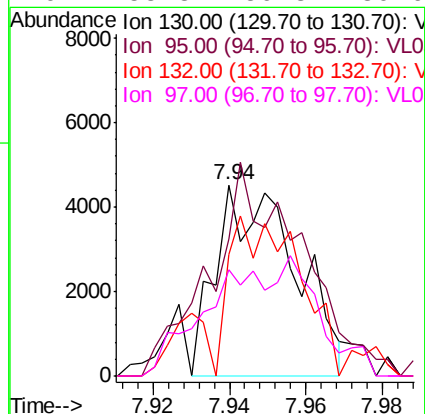
RT: 7.94 min Scan# 1556

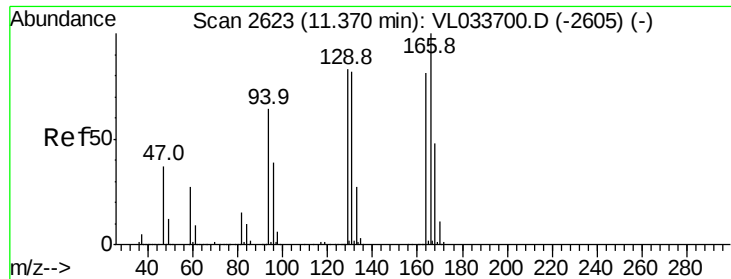
Delta R.T. -0.02 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	71.6	90.2	135.4#
132	63.4	76.4	114.6#
97	55.8	59.8	89.6#





#52

Tetrachloroethene

Concen: 5.440 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL033871.D

Acq: 30 May 2019 15:22

Instrument :

MSVOA_L

ClientSampleId :

SG-22-20190523-0

Tot Ion:164 Resp: 251436

Ion Ratio Lower Upper

164 100

166 124.2 98.9 148.3

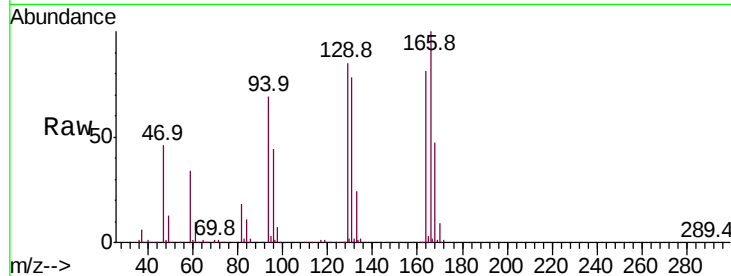
129 105.9 81.8 122.6

131 99.2 81.1 121.7

Manual Integrations
APPROVED

apatel

5/31/2019 2:51:06 PM



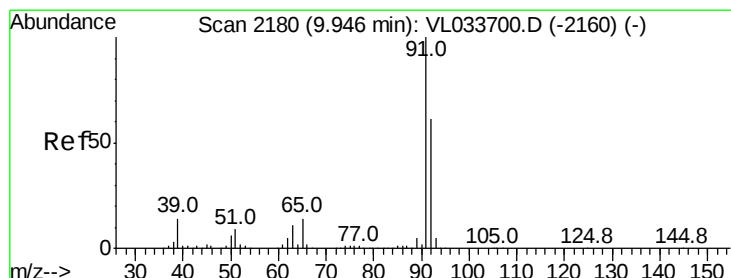
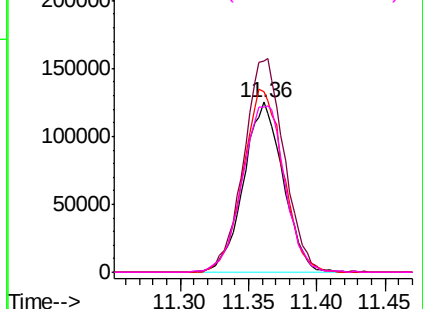
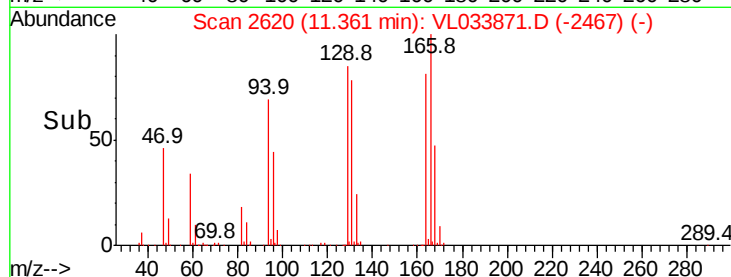
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.429 ppbv m

RT: 9.93 min Scan# 2175

Delta R.T. -0.02 min

Lab File: VL033871.D

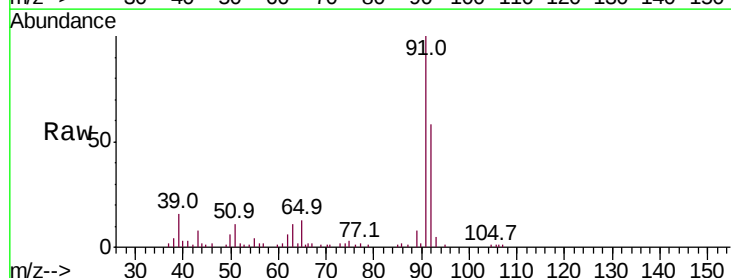
Acq: 30 May 2019 15:22

Tgt Ion: 91 Resp: 60879

Ion Ratio Lower Upper

91 100

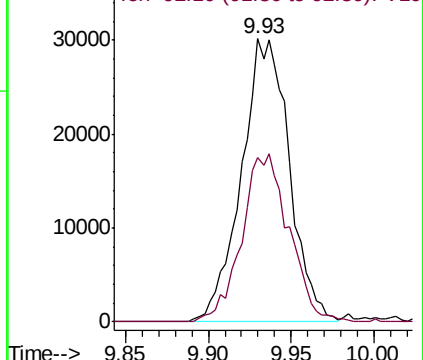
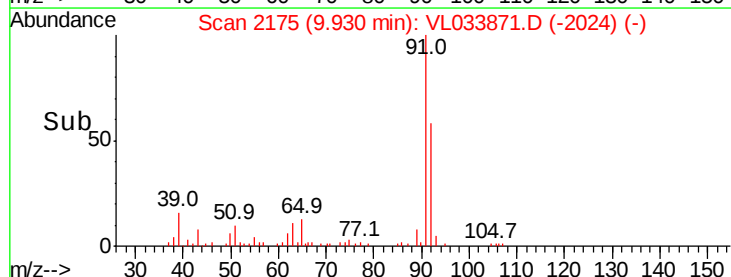
92 0.0 47.6 71.4#

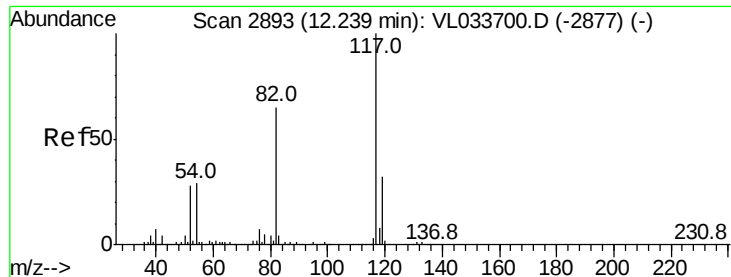


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





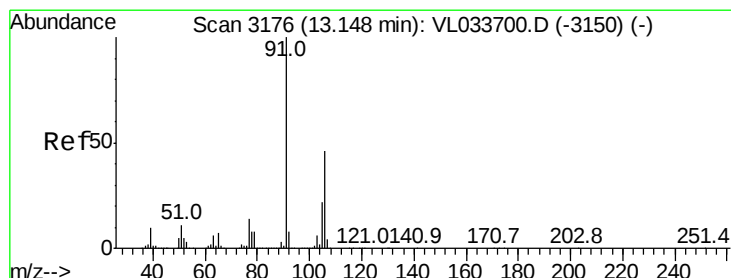
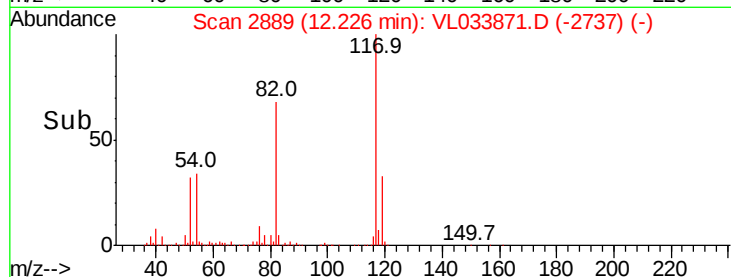
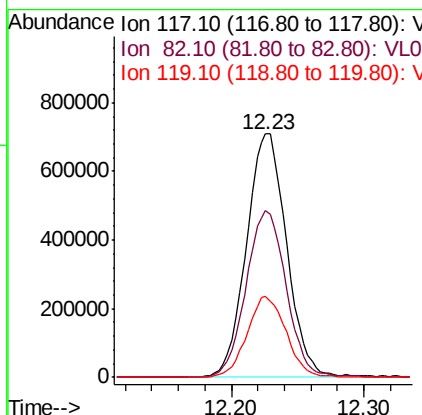
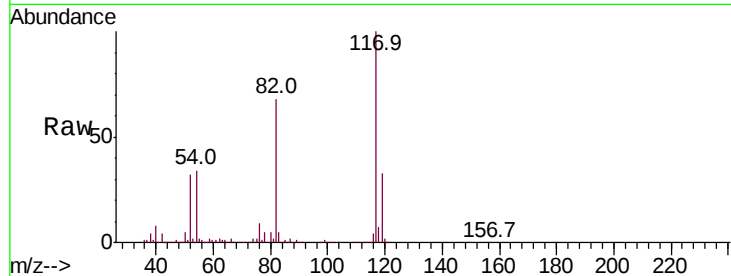
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.01 min
Lab File: VL033871.D
Acq: 30 May 2019 15:22

Instrument :
MSVOA_L
ClientSampleId :
SG-22-20190523-0

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.0	49.4	74.0
119	32.6	24.9	37.3

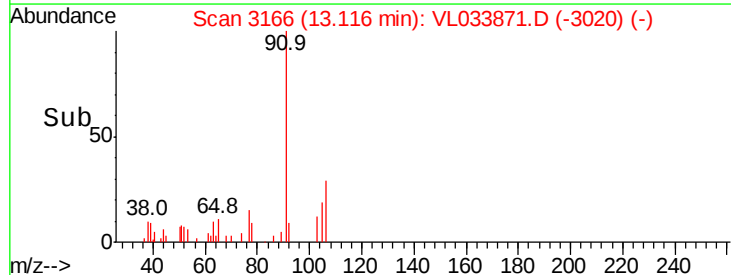
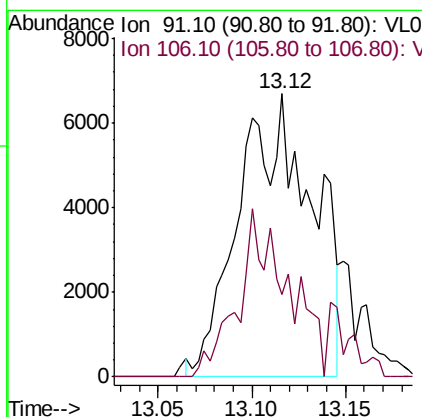
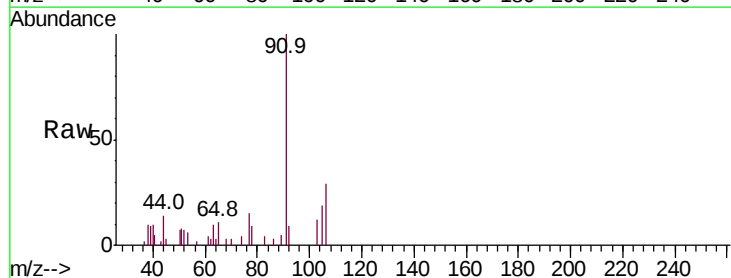
Manual Integrations
APPROVED

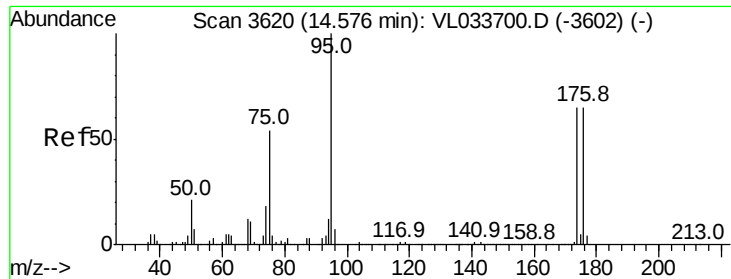
apatel
5/31/2019 2:51:06 PM



#59
m/p-Xylene
Concen: 0.105 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.03 min
Lab File: VL033871.D
Acq: 30 May 2019 15:22

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.8	53.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.090 ppbv
 RT: 14.56 min Scan# 3616
 Delta R.T. -0.01 min
 Lab File: VL033871.D
 Acq: 30 May 2019 15:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-22-20190523-0

Tot Ion: 95 Resp: 1221853
 Ion Ratio Lower Upper
 95 100
 174 66.5 53.9 80.9
 175 4.7 3.8 5.8

Manual Integrations
 APPROVED

apatel
 5/31/2019 2:51:06 PM

