

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034531.D
 Acq On : 31 Dec 2019 3:46
 Operator : SY/AP
 Sample : K6470-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 27-2

Manual Integrations
 APPROVED

apatel
 1/2/2020 12:32:11 PM

Quant Time: Jan 01 12:59:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 31 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	892429	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1809950	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1751215	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1486185	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	39991	0.284	ppbv	99
3) Chlorodifluoromethane	2.96	51	51878m	0.488	ppbv	
4) Chloromethane	3.11	50	27101	0.429	ppbv #	72
9) Propene	2.99	41	78332m	1.911	ppbv	
11) Trichlorofluoromethane	3.93	101	37600	0.231	ppbv	91
13) Ethanol	3.58	45	235947	20.744	ppbv	100
15) Acetone	3.83	43	638034m	4.899	ppbv	
19) Isopropyl Alcohol	3.96	45	106349m	1.261	ppbv	
20) Methylene Chloride	4.33	84	24909	0.486	ppbv #	79
26) Hexane	5.70	57	38770m	0.452	ppbv	
30) Cyclohexane	7.16	84	13569m	0.213	ppbv	
34) 2-Butanone	5.25	43	40231	0.311	ppbv	95
35) Carbon Tetrachloride	7.03	117	11126m	0.068	ppbv	
36) Benzene	6.91	78	70949	0.450	ppbv #	89
44) 2,2,4-Trimethylpentane	7.90	57	69730	0.239	ppbv #	77
52) Tetrachloroethene	11.26	164	2878m	0.047	ppbv	
53) Toluene	9.84	91	124415	0.718	ppbv	96
58) Ethyl Benzene	12.76	91	29574	0.125	ppbv	98
59) m/p-Xylene	13.01	91	94318m	0.457	ppbv	
60) o-Xylene	13.75	91	23736m	0.115	ppbv	

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

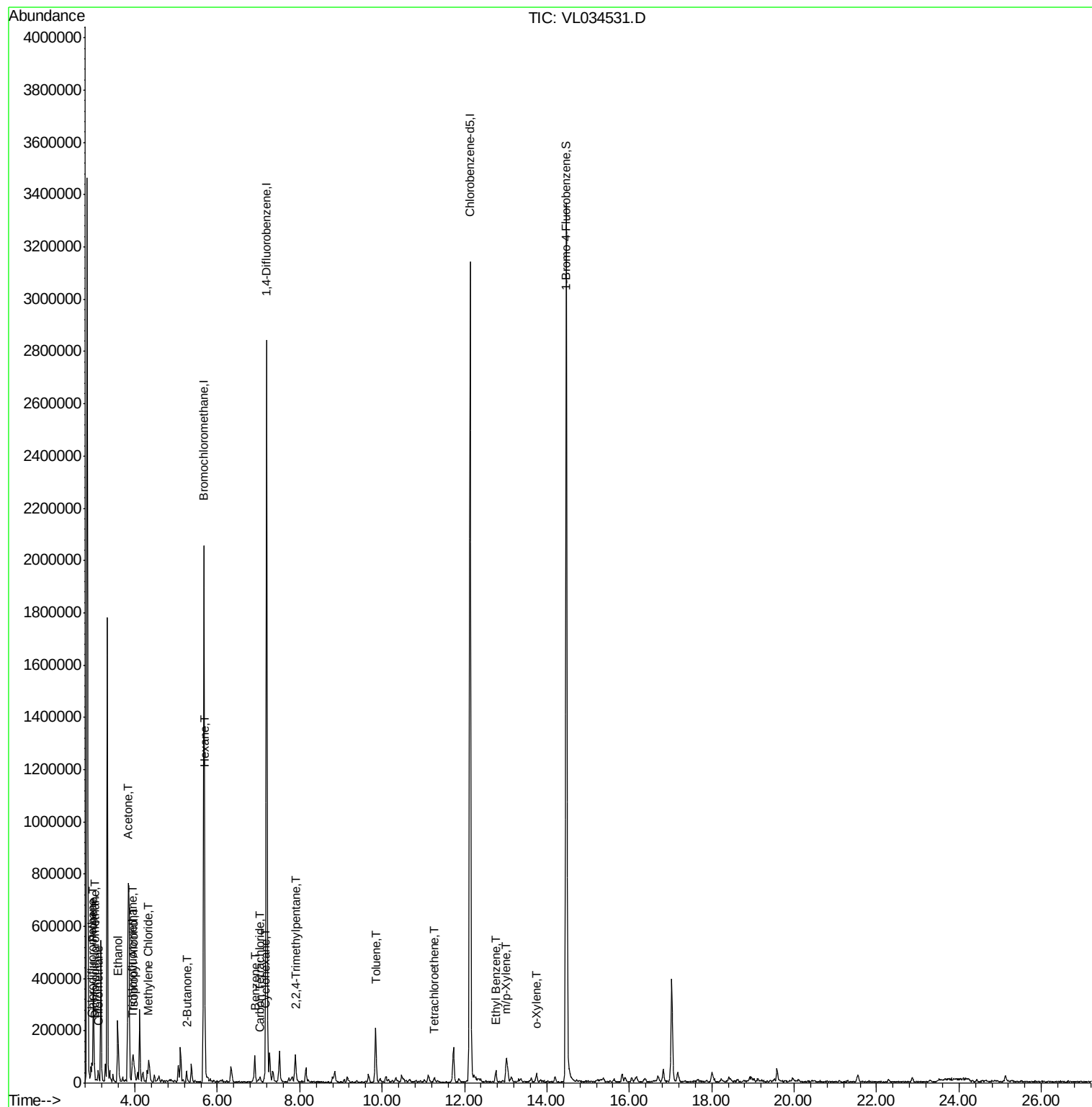
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL123019\
Data File : VL034531.D
Acq On : 31 Dec 2019 3:46
Operator : SY/AP
Sample : K6470-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

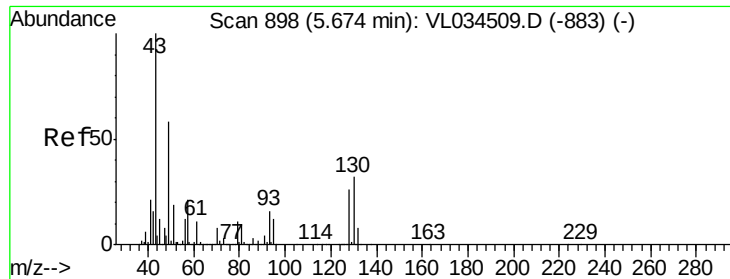
Instrument :
MSVOA_L
ClientSampleId :
27-2

Manual Integrations
APPROVED

apatel
1/2/2020 12:32:11 PM

Quant Time: Jan 01 12:59:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

Instrument :

MSVOA_L

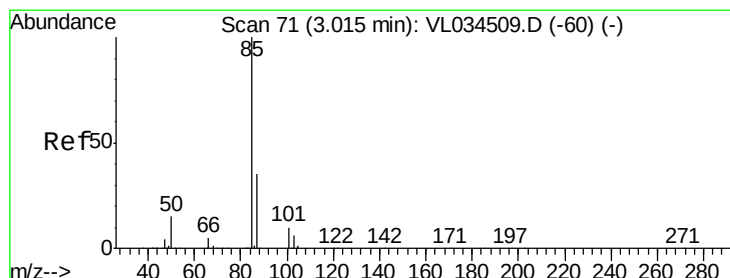
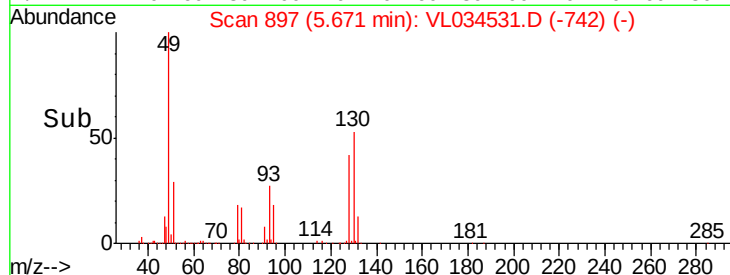
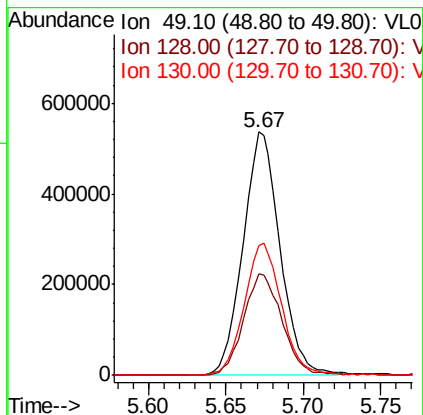
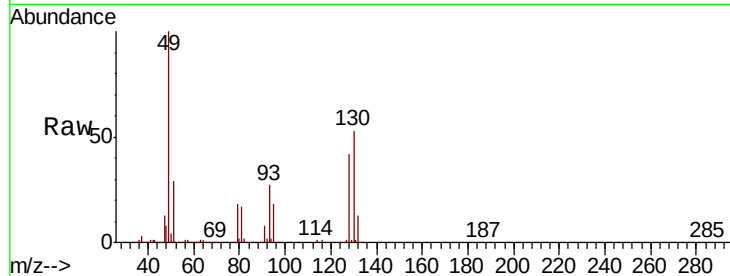
ClientSampled :

27-2

Tot Ion:	49	Resp:	892429
Ion Ratio	Lower	Upper	
49	100		
128	44.0	22.4	67.2
130	55.1	28.3	85.0

Manual Integrations
APPROVED

apatel
1/2/2020 12:32:11 PM



#2

Dichlorodifluoromethane

Concen: 0.284 ppbv

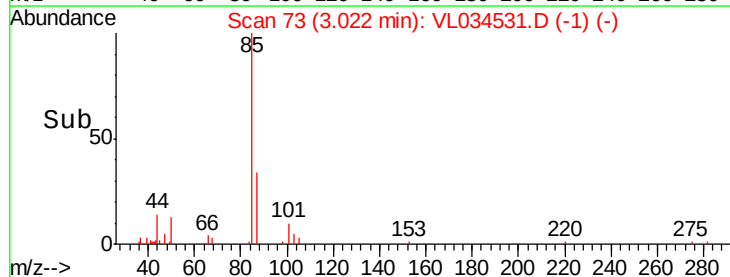
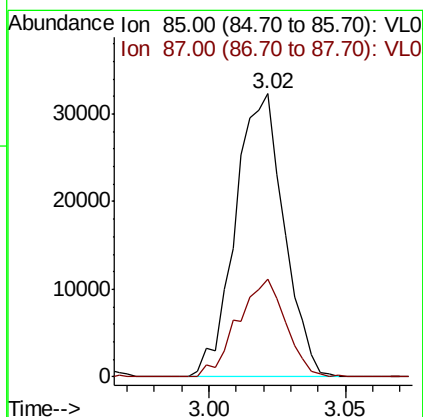
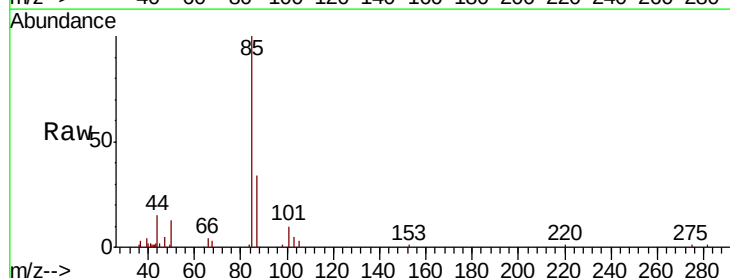
RT: 3.02 min Scan# 73

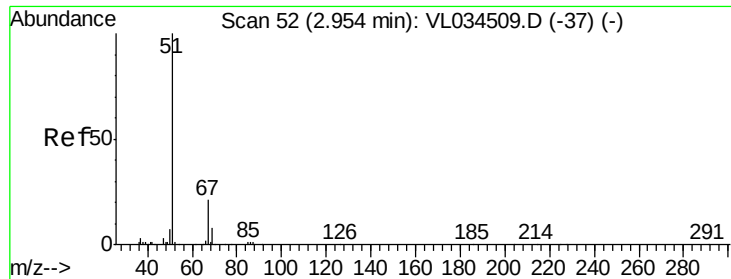
Delta R.T. 0.01 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

Tgt Ion:	85	Resp:	39991
Ion Ratio	Lower	Upper	
85	100		
87	34.5	27.9	41.9





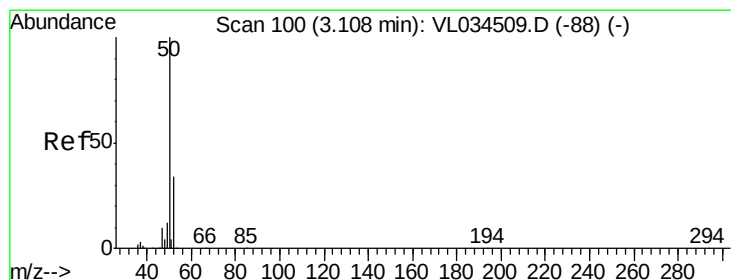
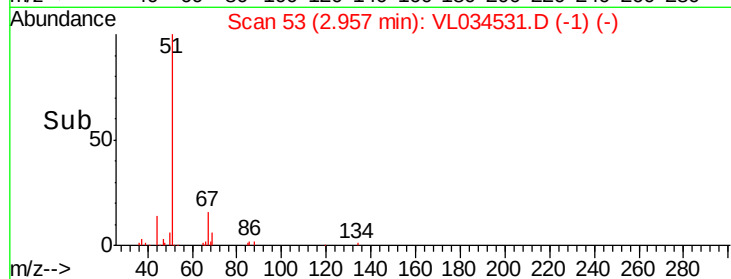
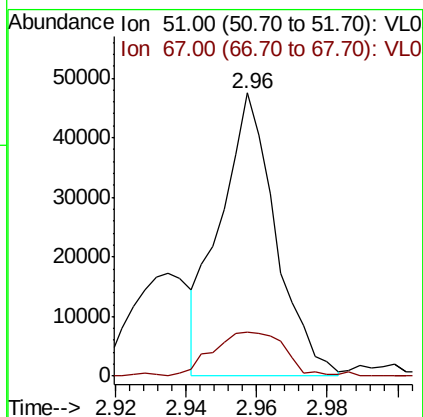
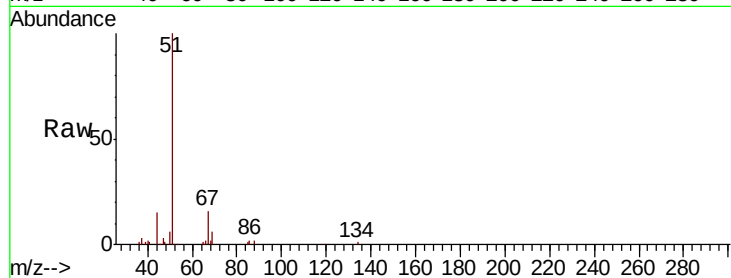
#3
Chlorodifluoromethane
Concen: 0.488 ppbv
RT: 2.96 min Scan# 53
Delta R.T. 0.00 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Instrument :
MSVOA_L
ClientSampled :
27-2

Tot Ion	Ratio	Lower	Upper
51	100		
67	20.9	16.8	25.2

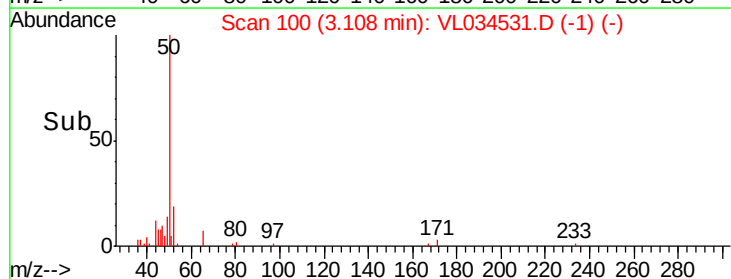
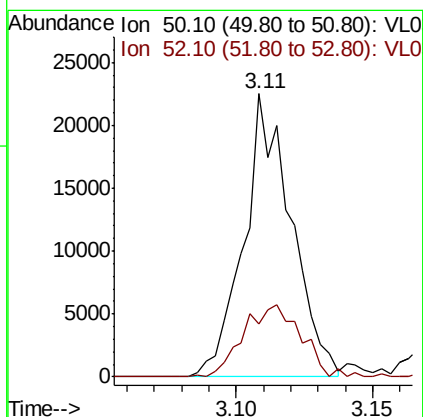
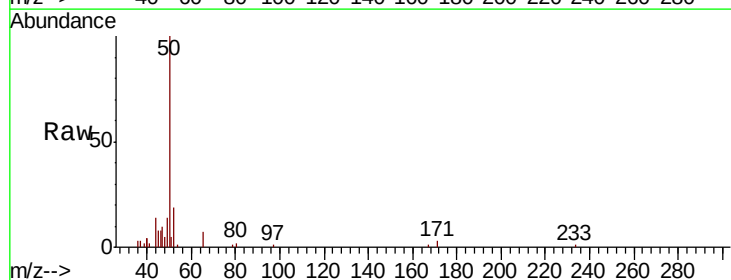
Manual Integrations
APPROVED

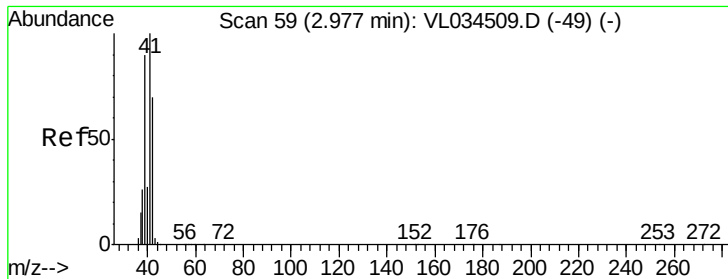
apatel
1/2/2020 12:32:11 PM



#4
Chloromethane
Concen: 0.429 ppbv
RT: 3.11 min Scan# 100
Delta R.T. 0.00 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Tgt Ion	Ratio	Lower	Upper
50	100		
52	18.1	27.6	41.4#





#9

Propene

Concen: 1.911 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

Instrument :

MSVOA_L

ClientSampled :

27-2

Tot Ion: 41 Resp: 78332

Ion Ratio Lower Upper

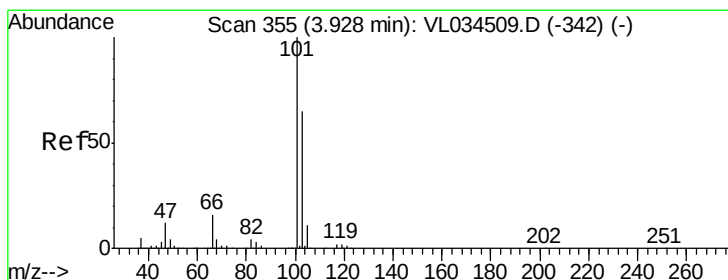
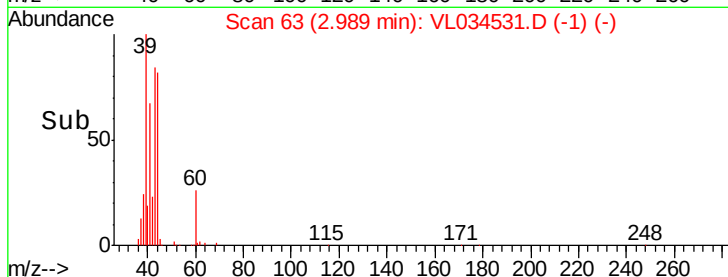
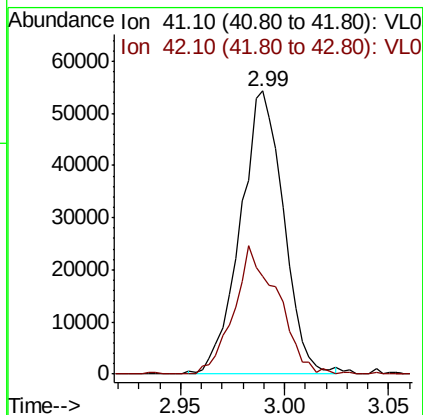
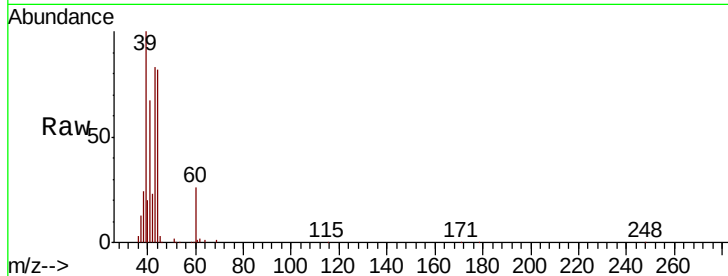
41 100

42 115.0 55.8 83.6#

Manual Integrations
APPROVED

apatel

1/2/2020 12:32:11 PM



#11

Trichlorofluoromethane

Concen: 0.231 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.01 min

Lab File: VL034531.D

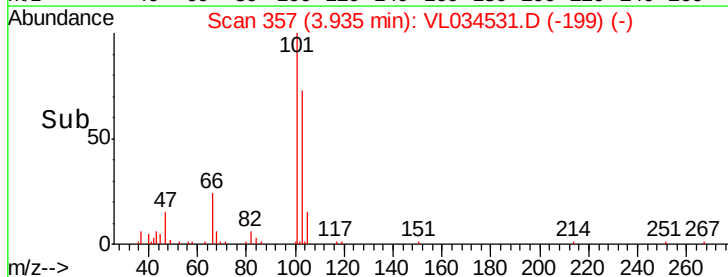
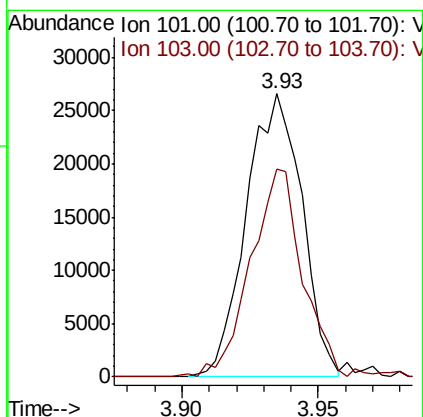
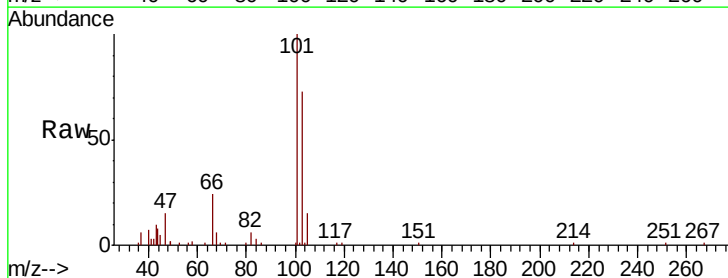
Acq: 31 Dec 2019 3:46

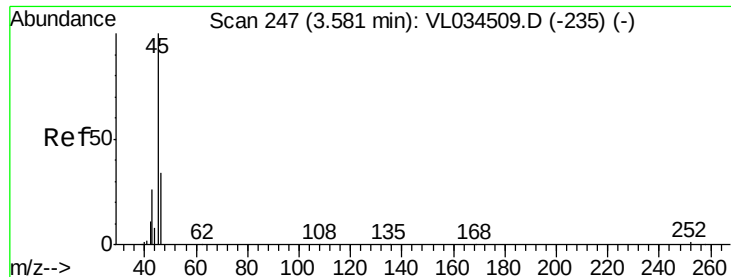
Tgt Ion: 101 Resp: 37600

Ion Ratio Lower Upper

101 100

103 72.1 52.1 78.1





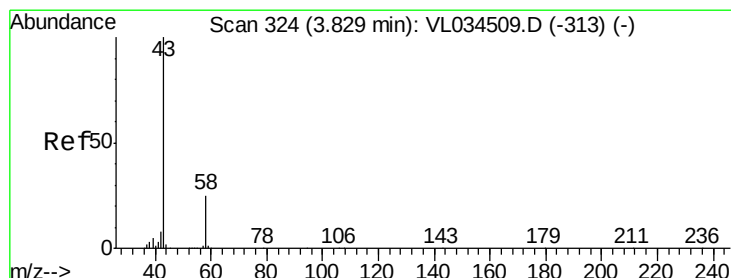
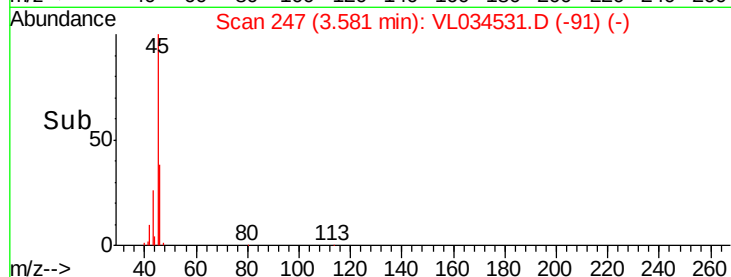
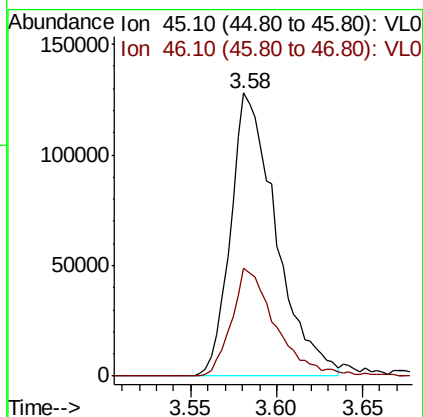
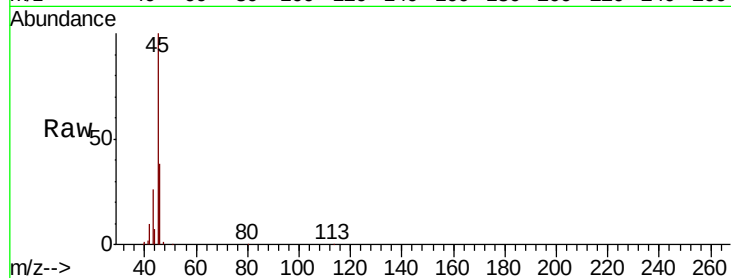
#13
Ethanol
Concen: 20.744 ppbv
RT: 3.58 min Scan# 247
Delta R.T. -0.00 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Instrument :
MSVOA_L
ClientSampled :
27-2

Tot Ion: 45 Resp: 235947
Ion Ratio Lower Upper
45 100
46 37.4 14.9 59.7

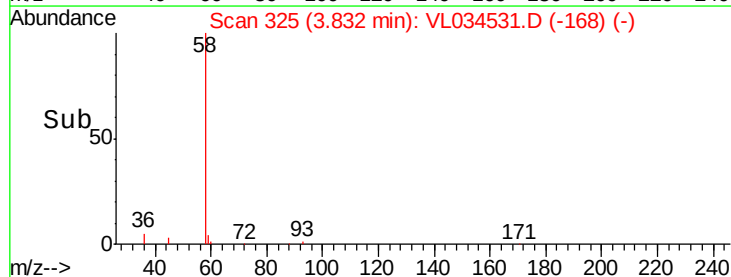
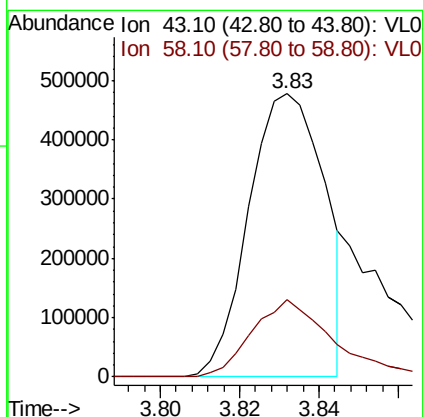
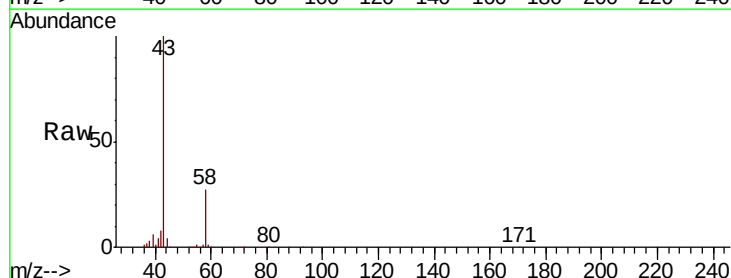
Manual Integrations
APPROVED

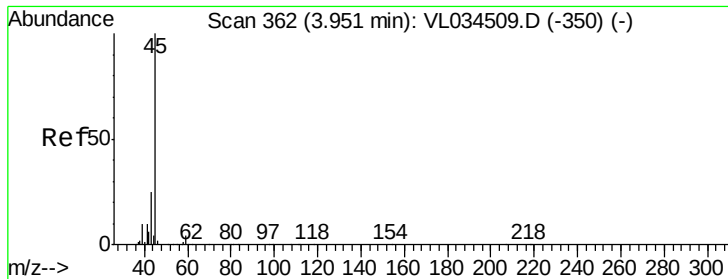
apatel
1/2/2020 12:32:11 PM



#15
Acetone
Concen: 4.899 ppbv m
RT: 3.83 min Scan# 325
Delta R.T. 0.00 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Tgt Ion: 43 Resp: 638034
Ion Ratio Lower Upper
43 100
58 29.8 20.4 30.6





#19

Isopropyl Alcohol

Concen: 1.261 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

Instrument :

MSVOA_L

ClientSampled :

27-2

Tot Ion: 45 Resp: 106349

Ion Ratio Lower Upper

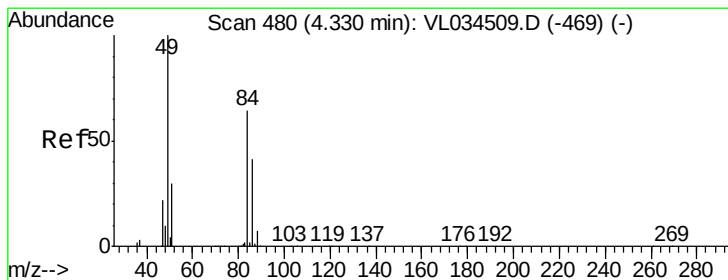
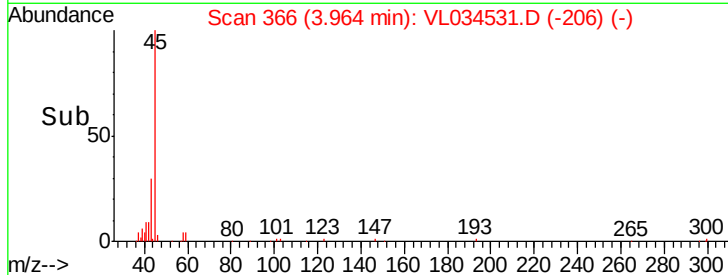
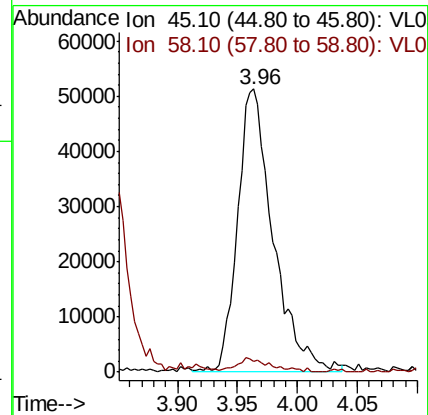
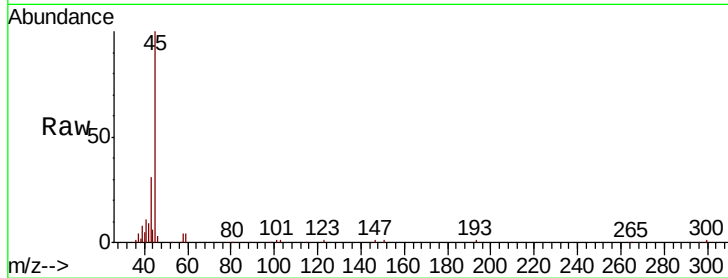
45 100

58 0.0 1.4 2.0#

Manual Integrations
APPROVED

apatel

1/2/2020 12:32:11 PM



#20

Methylene Chloride

Concen: 0.486 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.00 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

Tgt Ion: 84 Resp: 24909

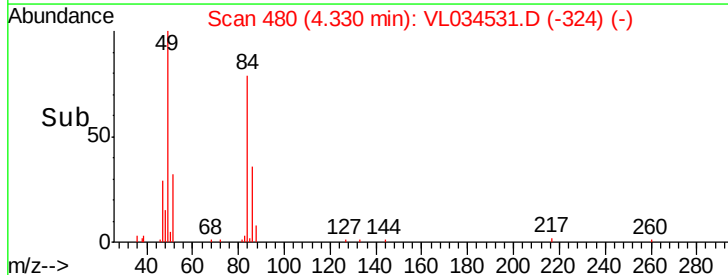
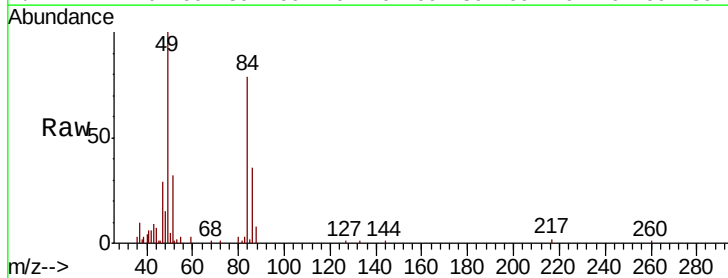
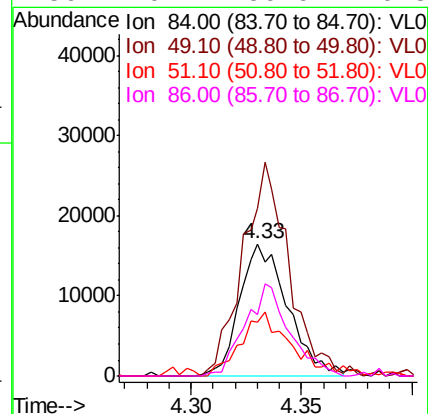
Ion Ratio Lower Upper

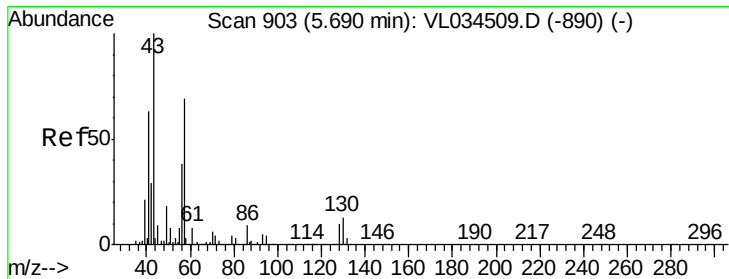
84 100

49 127.1 124.4 186.6

51 37.4 37.0 55.6

86 46.1 50.9 76.3#





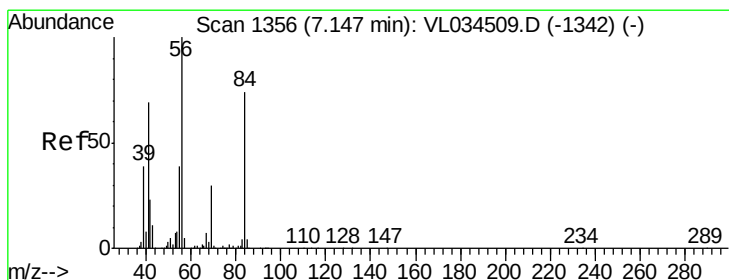
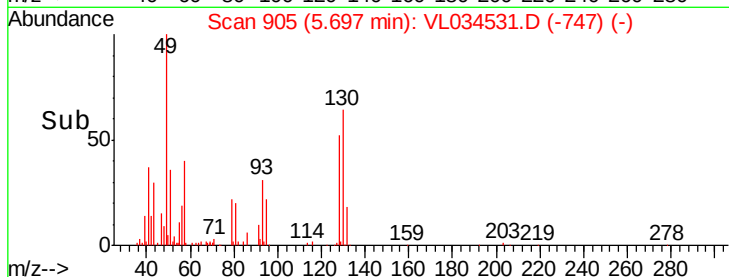
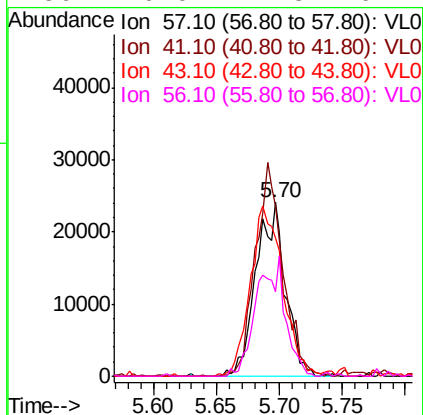
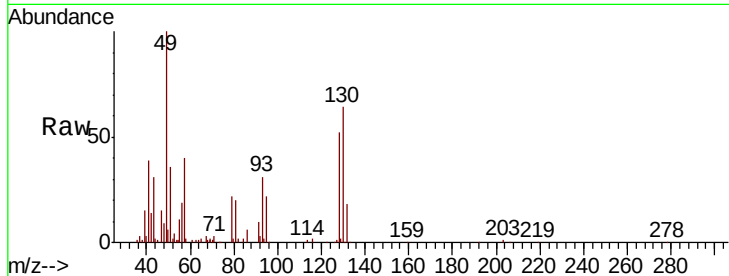
#26
Hexane
Concen: 0.452 ppbv m
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Instrument :
MSVOA_L
ClientSampled :
27-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	116.1	75.3	112.9#
43	110.3	189.4	284.2#
56	0.0	42.8	64.2#

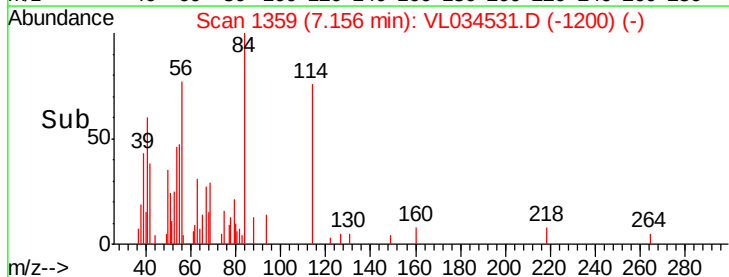
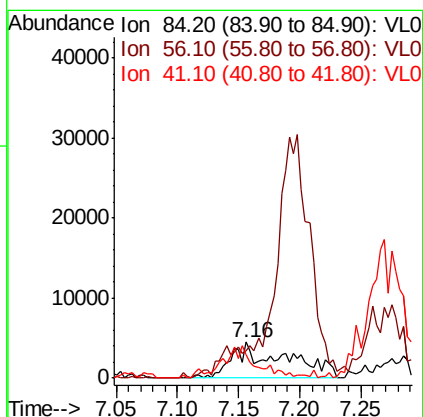
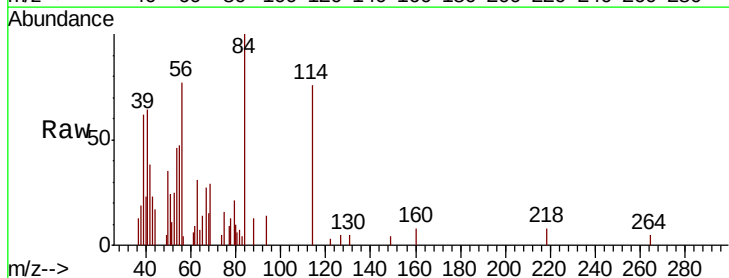
Manual Integrations
APPROVED

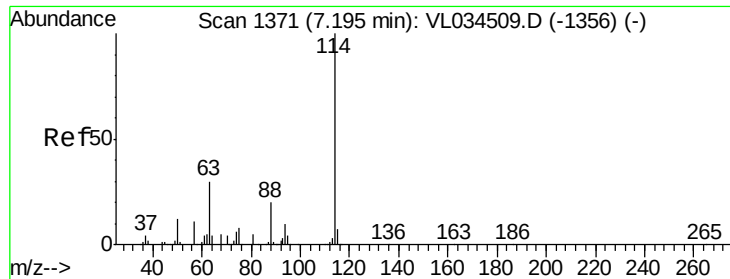
apatel
1/2/2020 12:32:11 PM



#30
Cyclohexane
Concen: 0.213 ppbv m
RT: 7.16 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	112.7	169.1#
41	0.0	73.0	109.4#





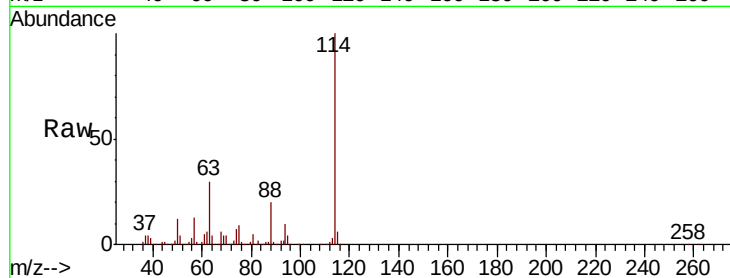
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. 0.00 min
 Lab File: VL034531.D
 Acq: 31 Dec 2019 3:46

Instrument :
 MSVOA_L
 ClientSampled :
 27-2

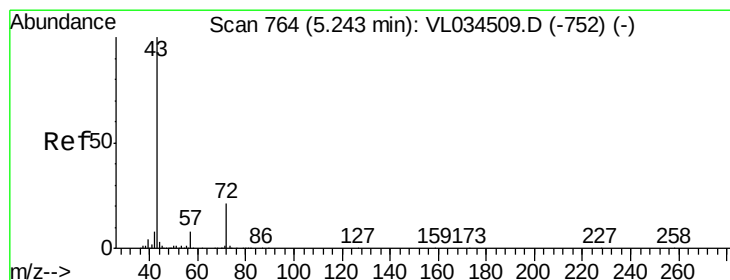
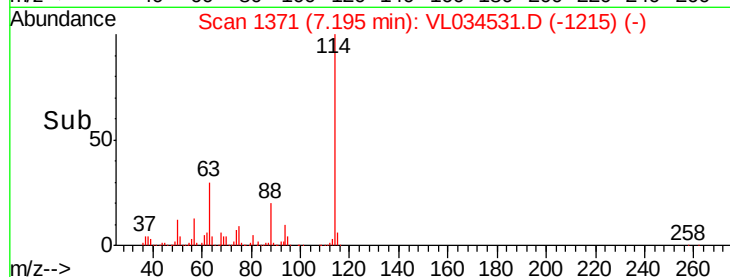
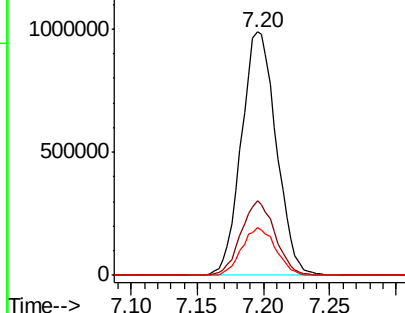
Tot Ion	Ratio	Lower	Upper
114	100		
63	29.9	24.1	36.1
88	19.2	15.7	23.5

Manual Integrations
 APPROVED

apatel
 1/2/2020 12:32:11 PM

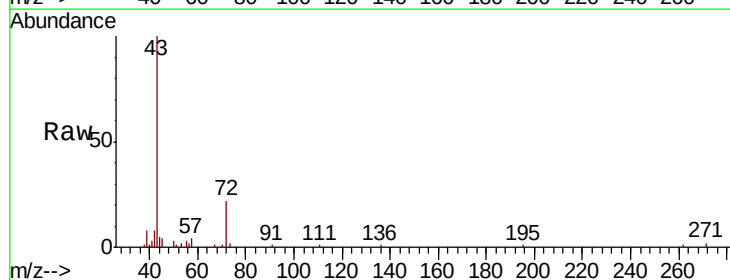


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

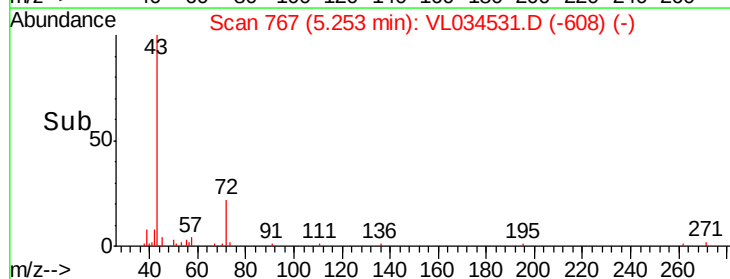
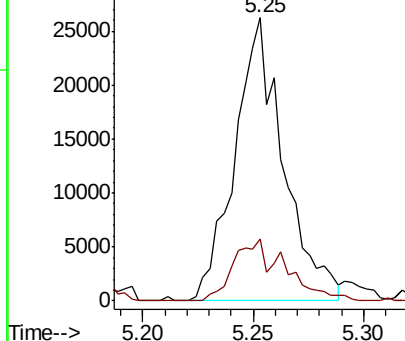


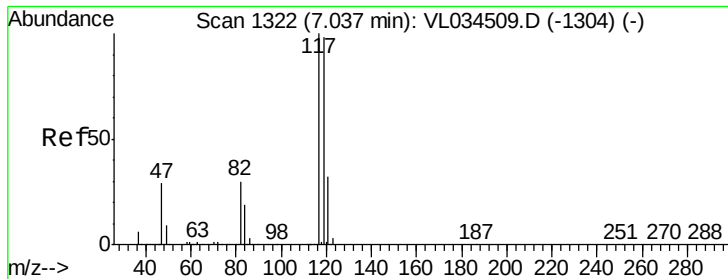
#34
 2-Butanone
 Concen: 0.311 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL034531.D
 Acq: 31 Dec 2019 3:46

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.3	17.0	25.4



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





#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

Instrument :

MSVOA_L

ClientSampled :

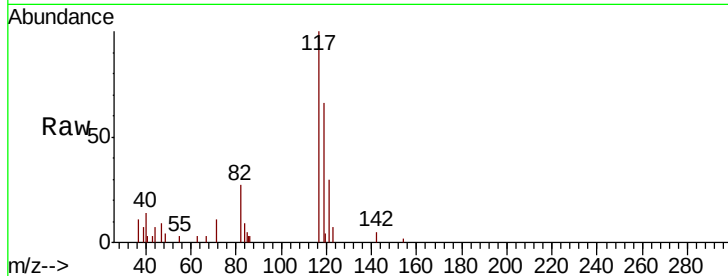
27-2

Tot Ion	Ratio	Lower	Upper
117	100		
119	65.7	78.7	118.1#
121	30.1	25.9	38.9

Manual Integrations
APPROVED

apatel

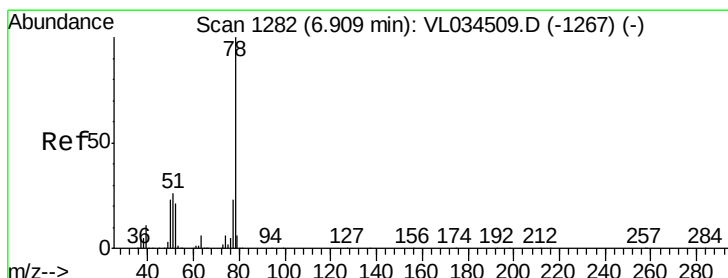
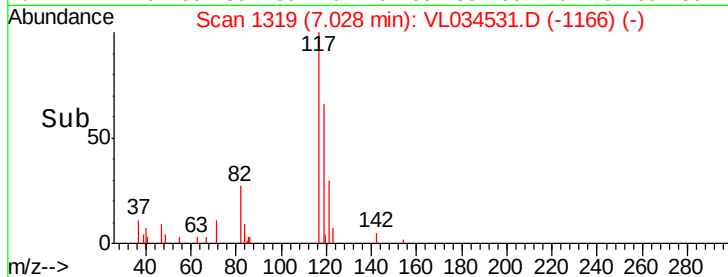
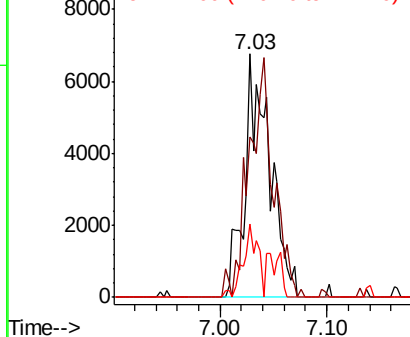
1/2/2020 12:32:11 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.450 ppbv

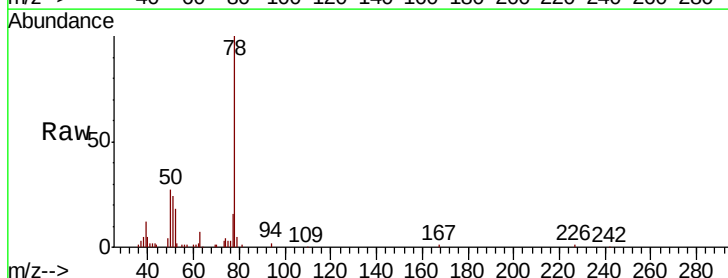
RT: 6.91 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

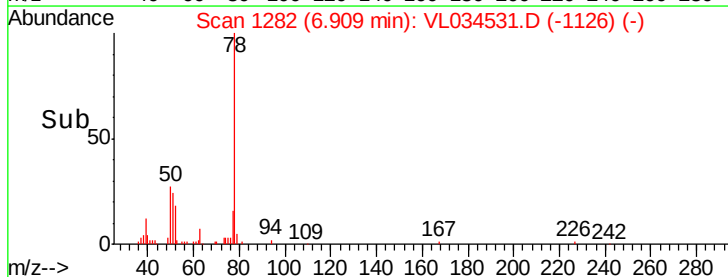
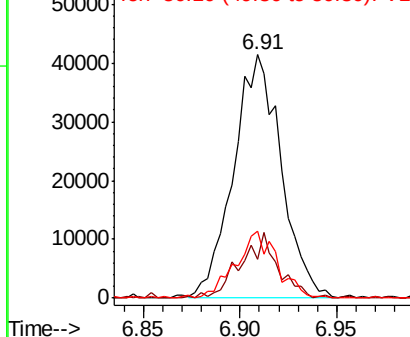
Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.1	18.6	28.0#
50	27.5	18.8	28.2

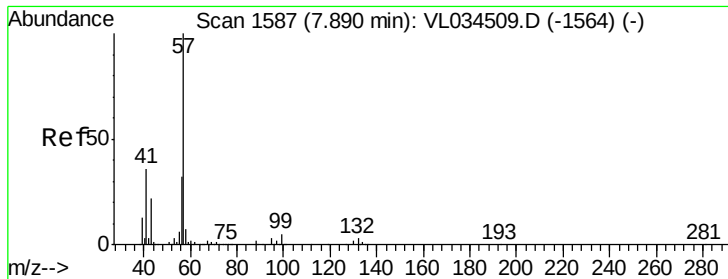


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.239 ppbv

RT: 7.90 min Scan# 1589

Delta R.T. 0.01 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

Instrument :

MSVOA_L

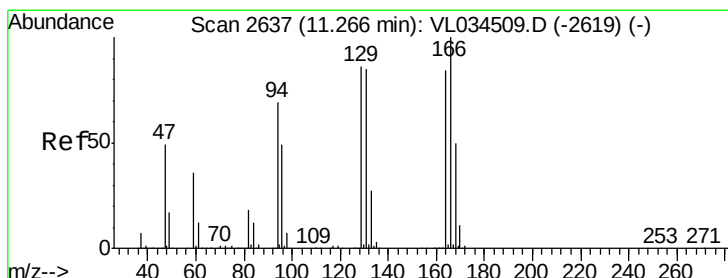
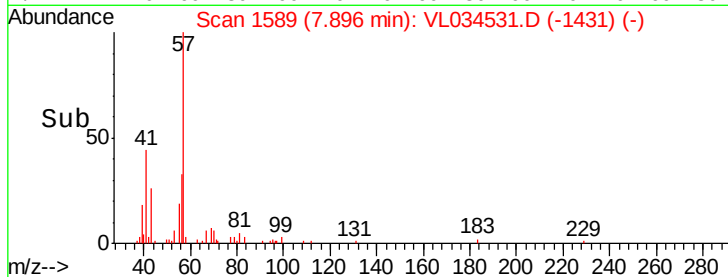
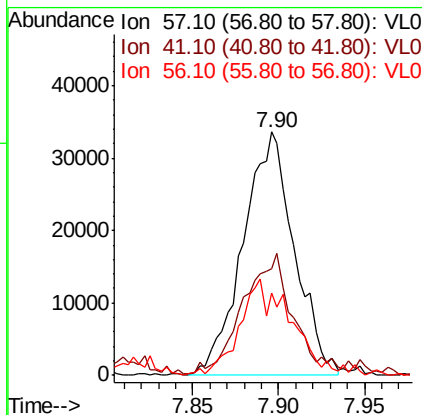
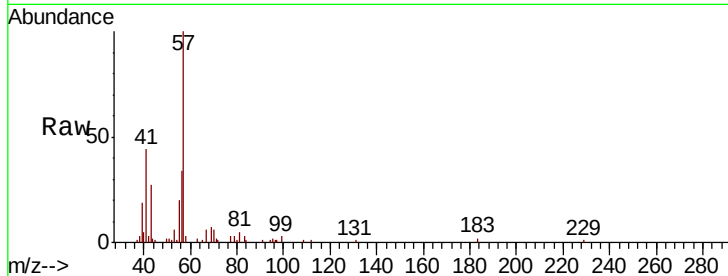
ClientSampled :

27-2

Tot Ion:	57	Resp:	69730
Ion Ratio	Lower	Upper	
57	100		
41	52.6	29.0	43.4#
56	40.8	24.9	37.3#

Manual Integrations
APPROVED

apatel
1/2/2020 12:32:11 PM



#52

Tetrachloroethene

Concen: 0.047 ppbv m

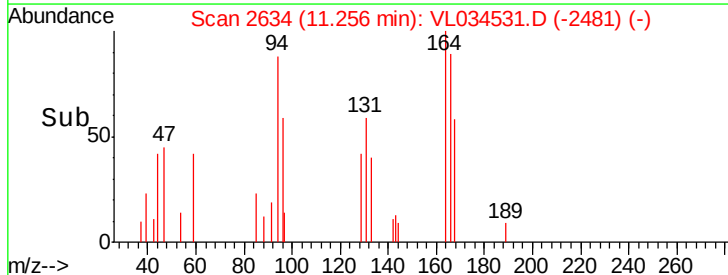
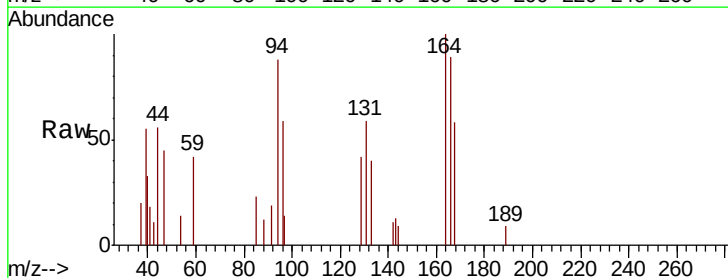
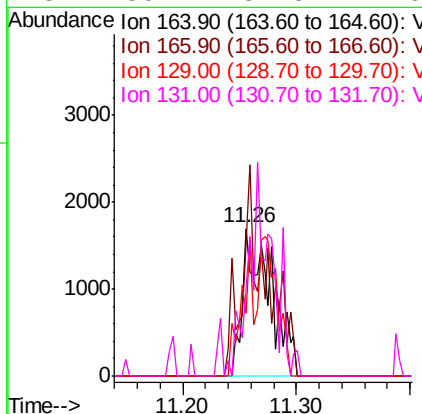
RT: 11.26 min Scan# 2634

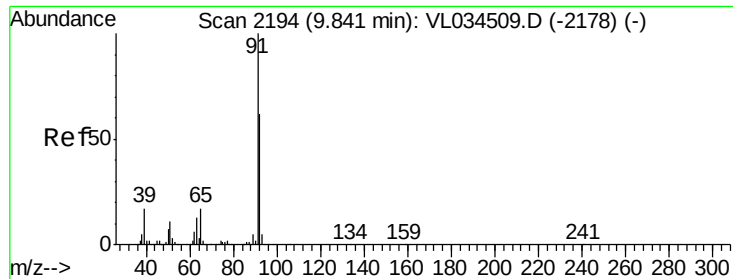
Delta R.T. -0.01 min

Lab File: VL034531.D

Acq: 31 Dec 2019 3:46

Tgt Ion:	164	Resp:	2878
Ion Ratio	Lower	Upper	
164	100		
166	88.9	95.7	143.5#
129	42.4	82.2	123.2#
131	59.2	81.3	121.9#





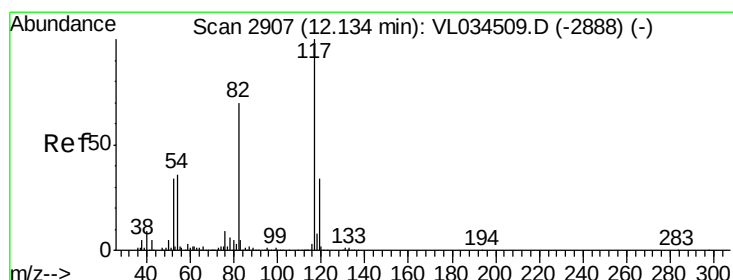
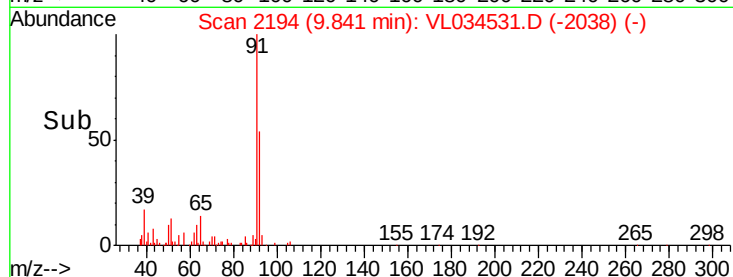
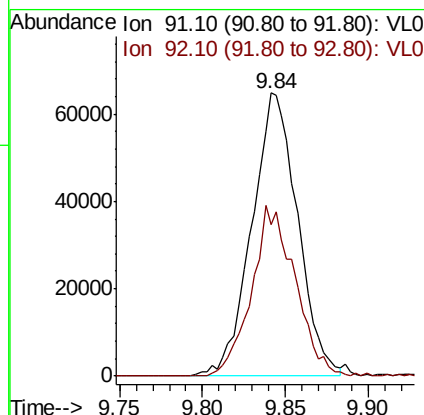
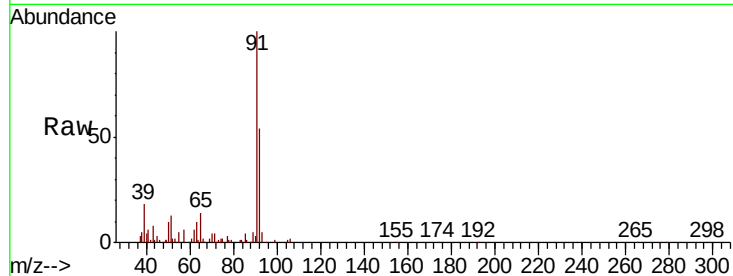
#53
Toluene
Concen: 0.718 ppbv
RT: 9.84 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Instrument :
MSVOA_L
ClientSampled :
27-2

Tot Ion	Ratio	Lower	Upper
91	100		
92	57.6	48.4	72.6

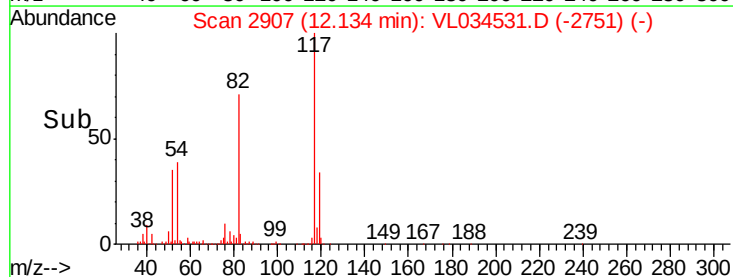
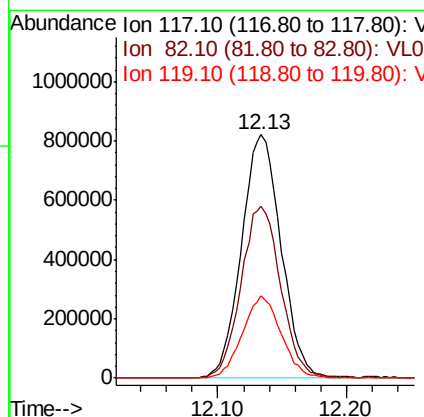
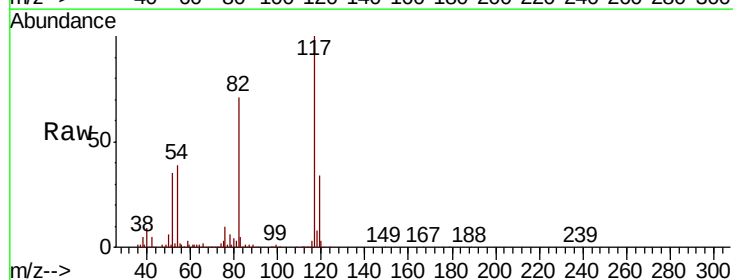
Manual Integrations
APPROVED

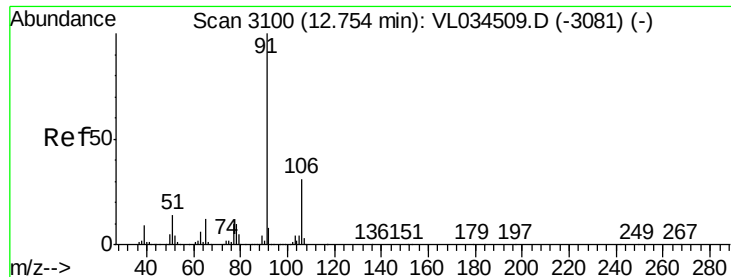
apatel
1/2/2020 12:32:11 PM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Tgt Ion	Ratio	Lower	Upper
117	100		
82	70.9	56.2	84.4
119	33.2	27.1	40.7





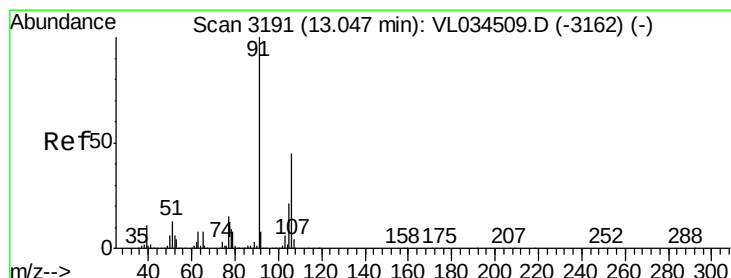
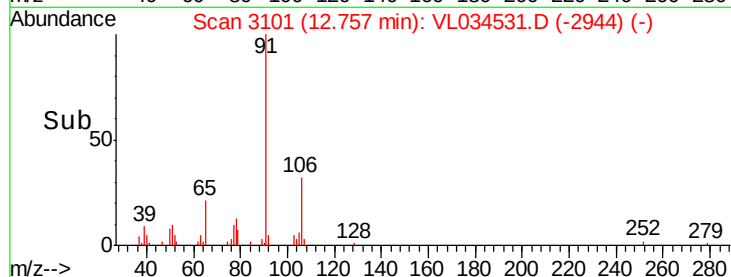
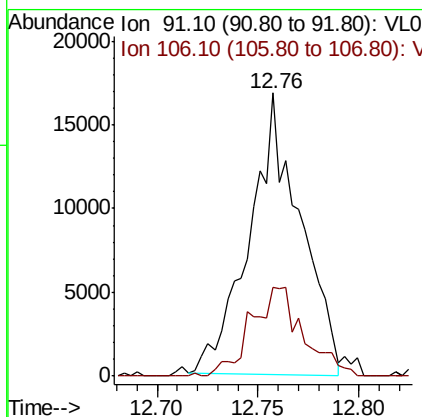
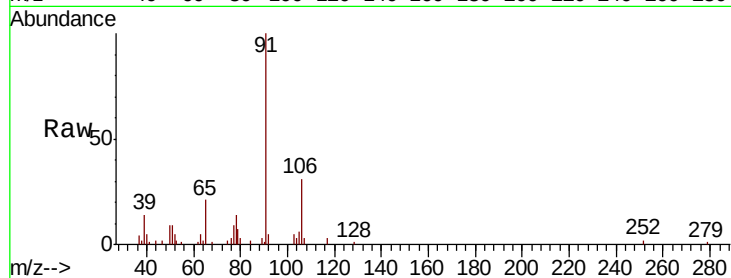
#58
Ethyl Benzene
Concen: 0.125 ppbv
RT: 12.76 min Scan# 3101
Delta R.T. 0.00 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Instrument :
MSVOA_L
ClientSampled :
27-2

Tot Ion: 91 Resp: 29574
Ion Ratio Lower Upper
91 100
106 31.7 24.6 36.8

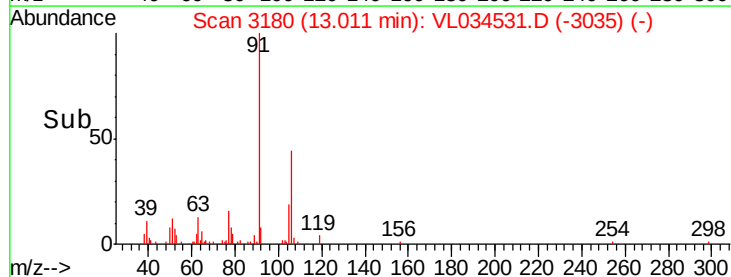
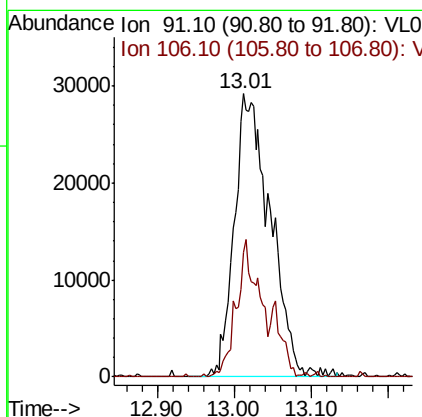
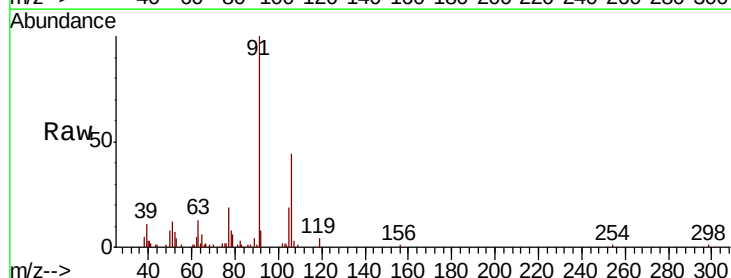
Manual Integrations
APPROVED

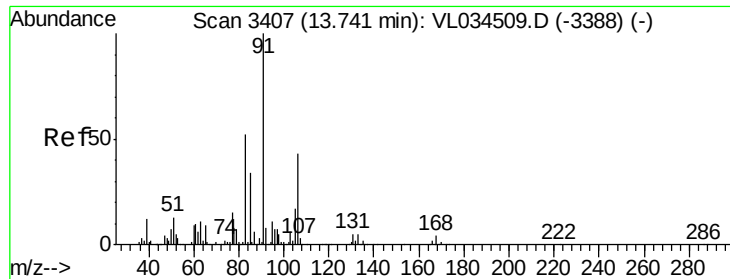
apatel
1/2/2020 12:32:11 PM



#59
m/p-Xylene
Concen: 0.457 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. -0.04 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Tgt Ion: 91 Resp: 94318
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#





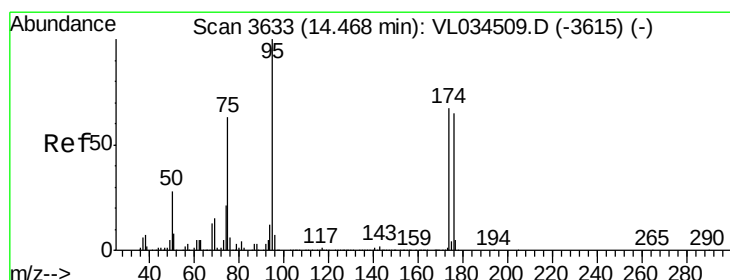
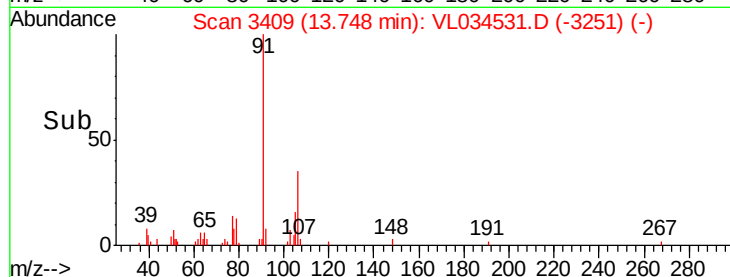
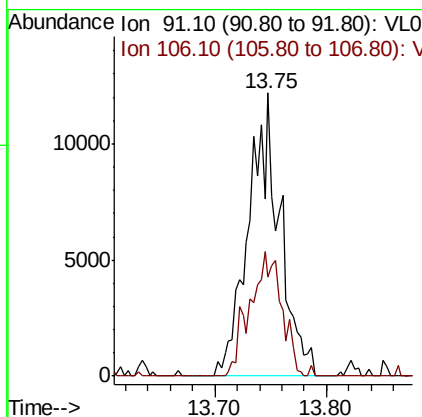
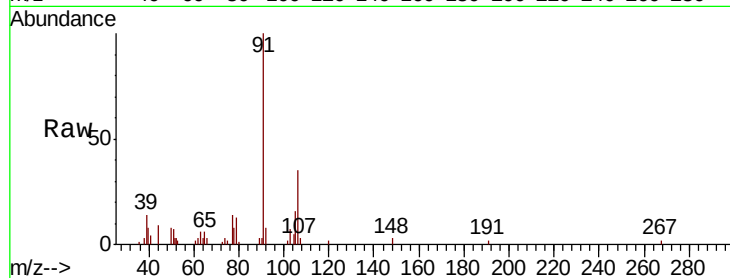
#60
o-Xylene
Concen: 0.115 ppbv m
RT: 13.75 min Scan# 3409
Delta R.T. 0.01 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Instrument :
MSVOA_L
ClientSampled :
27-2

Tot Ion: 91 Resp: 23736
Ion Ratio Lower Upper
91 100
106 0.0 21.4 64.3#

Manual Integrations
APPROVED

apatel
1/2/2020 12:32:11 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.170 ppbv
RT: 14.47 min Scan# 3635
Delta R.T. 0.01 min
Lab File: VL034531.D
Acq: 31 Dec 2019 3:46

Tgt Ion: 95 Resp: 1486185
Ion Ratio Lower Upper
95 100
174 65.2 52.4 78.6
175 4.7 3.9 5.9

