

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034861.D
 Acq On : 10 Mar 2020 8:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 3/16/2020 12:25:40 PM

Quant Time: Mar 11 05:44:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	903718	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2041870	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2109475m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1664610	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	936698	7.569	ppbv	98
3) Chlorodifluoromethane	2.94	51	930089	9.213	ppbv	97
4) Chloromethane	3.10	50	553771	9.706	ppbv	97
5) Vinyl Chloride	3.21	62	521661	9.510	ppbv	95
6) Bromomethane	3.44	94	309965	9.707	ppbv	97
7) Chloroethane	3.52	64	190336	9.609	ppbv	94
8) Dichlorotetrafluoroethane	3.15	85	1171469	9.115	ppbv	99
9) Propene	2.97	41	433886	9.002	ppbv	100
10) Heptane	8.12	43	1150260	9.697	ppbv	99
11) Trichlorofluoromethane	3.92	101	1229208	9.336	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	861471	9.349	ppbv	97
13) Ethanol	3.57	45	129921	8.866	ppbv	97
14) Bromoethene	3.71	108	380673	9.566	ppbv	98
15) Acetone	3.82	43	1092821	9.330	ppbv	100
16) 1,3-Butadiene	3.29	39	499119	9.423	ppbv	99
17) tert-Butyl alcohol	4.27	59	1116305	9.892	ppbv	99
18) 1,1-Dichloroethene	4.26	96	383833	9.406	ppbv	95
19) Isopropyl Alcohol	3.94	45	764006	10.329	ppbv #	40
20) Methylene Chloride	4.32	84	337250	9.107	ppbv	96
21) Allyl Chloride	4.38	41	721721	9.594	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	394740	9.535	ppbv	94
23) Vinyl Acetate	5.05	43	1678518	9.701	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1079100	9.303	ppbv	99
25) Ethyl Acetate	5.66	43	1926722	9.233	ppbv	99
26) Hexane	5.67	57	840473	9.353	ppbv	100
27) Carbon Disulfide	4.52	76	1011779	9.922	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1367096	9.144	ppbv	99
29) Chloroform	5.74	83	1286722	9.385	ppbv	96
30) Cyclohexane	7.13	84	714663	9.532	ppbv	100
31) cis-1,2-Dichloroethene	5.53	61	866326	9.427	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	1268741	9.497	ppbv	99
34) 2-Butanone	5.22	43	1292036	9.522	ppbv	100
35) Carbon Tetrachloride	7.02	117	1314327	10.349	ppbv	97
36) Benzene	6.89	78	1714452	9.420	ppbv	98
37) 1,2-Dichloroethane	6.30	62	999119	9.736	ppbv	99
38) Trichloroethene	7.84	130	649100	9.391	ppbv	98
39) 1,2-Dichloropropane	7.62	63	671001	9.305	ppbv	95
40) 1,4-Dioxane	7.83	88	250186	9.187	ppbv #	96
41) Tetrahydrofuran	6.04	42	727634	9.910	ppbv	99
42) Bromodichloromethane	7.80	83	1350265	9.654	ppbv	99
43) Methyl Methacrylate	8.02	69	774903	10.106	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034861.D
 Acq On : 10 Mar 2020 8:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 3/16/2020 12:25:40 PM

Quant Time: Mar 11 05:44:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.87	57	2916272	9.482	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	935678	10.387	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1081112	10.099	ppbv	96
47) 1,1,2-Trichloroethane	9.49	97	694924	9.391	ppbv	97
48) Dibromochloromethane	10.32	129	1146786	9.569	ppbv	99
49) Bromoform	13.07	173	1010724	9.459	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	1890878	9.680	ppbv	100
51) 2-Hexanone	10.14	43	1551882	9.776	ppbv #	99
52) Tetrachloroethene	11.24	164	614263	8.531	ppbv	96
53) Toluene	9.82	91	1992001	9.478	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1046037	9.390	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	873628	9.220	ppbv	97
57) Chlorobenzene	12.17	112	1467300	8.890	ppbv	97
58) Ethyl Benzene	12.73	91	2614087	9.151	ppbv	98
59) m/p-Xylene	13.02	91	4253778m	17.774	ppbv	
60) o-Xylene	13.72	91	2085083	8.923	ppbv	99
61) Styrene	13.55	104	1570247	9.575	ppbv	99
62) Isopropylbenzene	14.70	105	3123419	8.840	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	1411436	8.897	ppbv	99
64) n-propylbenzene	15.59	120	823973	8.960	ppbv	96
65) tert-Butylbenzene	16.78	119	2726057	8.826	ppbv	99
66) Benzyl Chloride	17.02	91	1367940	10.621	ppbv	99
67) sec-Butylbenzene	17.33	105	3854122	8.999	ppbv	99
69) p-Isopropyltoluene	17.69	119	3242975	9.030	ppbv	99
70) n-Butylbenzene	18.59	91	3378866	9.221	ppbv	99
71) 2-Chlorotoluene	15.49	91	2385734	8.916	ppbv	99
72) 4-Ethyltoluene	15.87	105	2515687	9.116	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2363122	9.147	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	2437026	9.157	ppbv	98
75) 1,3-Dichlorobenzene	17.03	146	1420987	8.855	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1454808	9.084	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1417141	9.110	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1279360	9.847	ppbv	100
79) Naphthalene	22.25	128	2547385	12.273	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	1077159	19.858	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	1456328	11.044	ppbv	99

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
Data File : VL034861.D
Acq On : 10 Mar 2020 8:58
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Manual Integrations
APPROVED

apatel
3/16/2020 12:25:40 PM

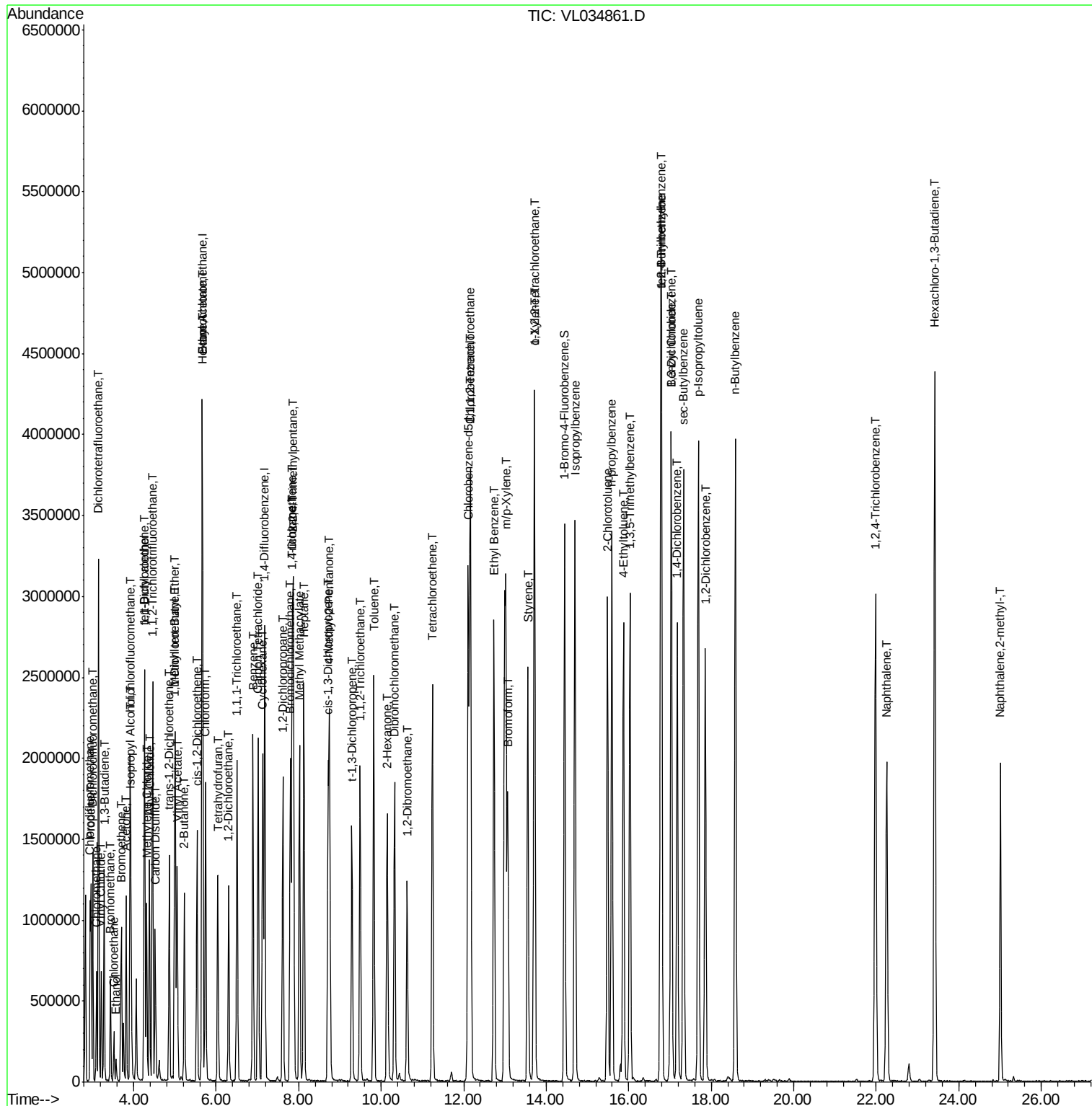
Quant Time: Mar 11 05:44:30 2020

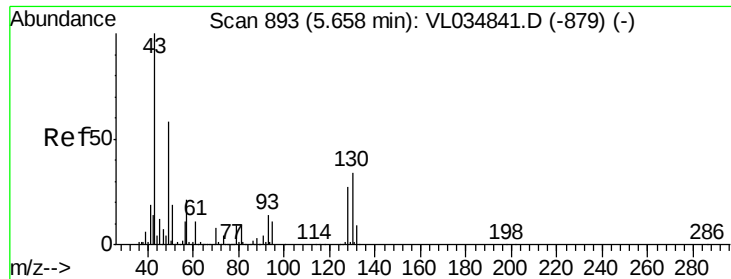
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar

QLast Update : Mon Mar 09 16:42:53 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

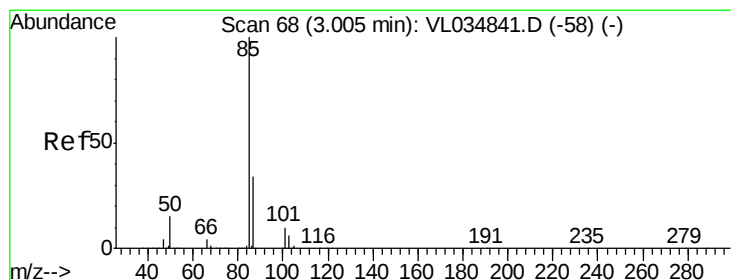
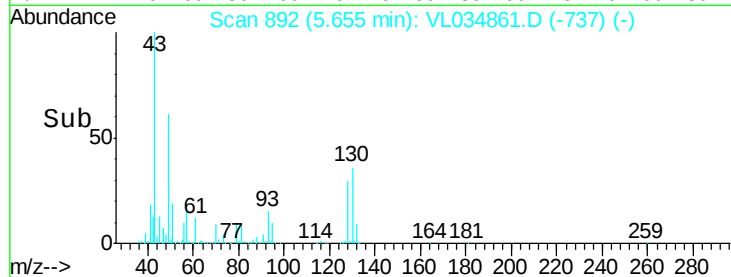
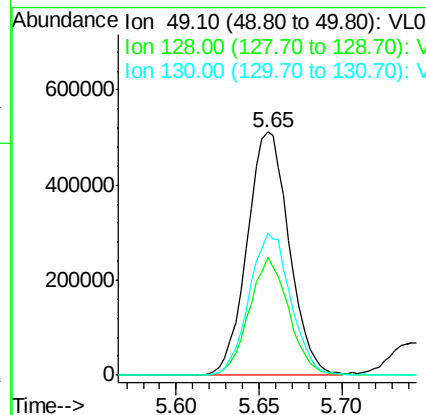
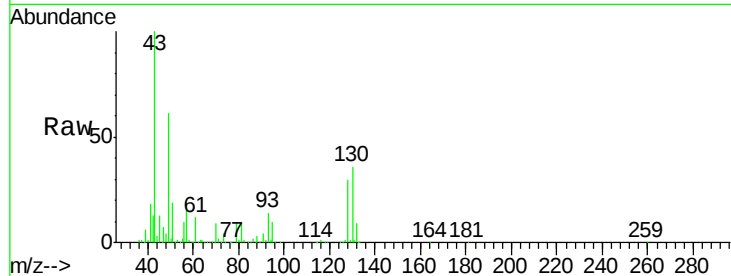
ClientSampleId :

VSTDCCC010EC

Tot Ion:	49	Resp:	903718
Ion Ratio	Lower	Upper	
49	100		
128	45.9	23.4	70.3
130	58.2	30.0	90.0

Manual Integrations
APPROVED

apatel
3/16/2020 12:25:40 PM



#2

Dichlorodifluoromethane

Concen: 7.569 ppbv

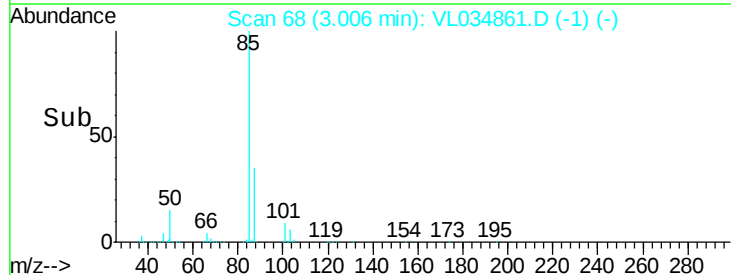
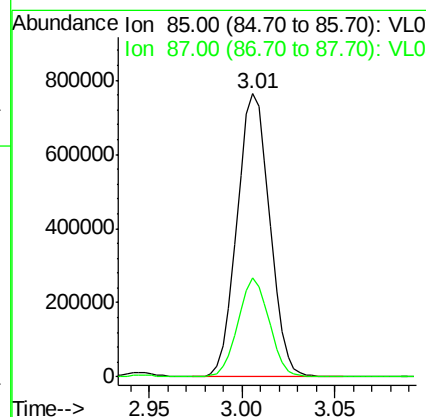
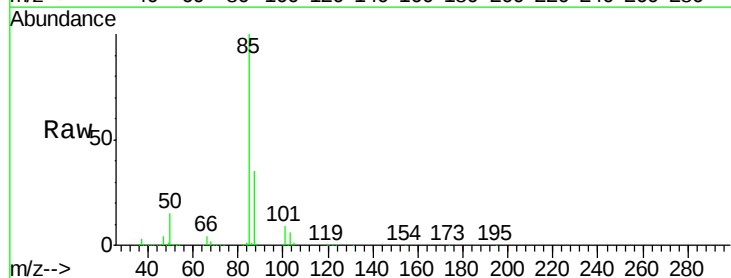
RT: 3.01 min Scan# 68

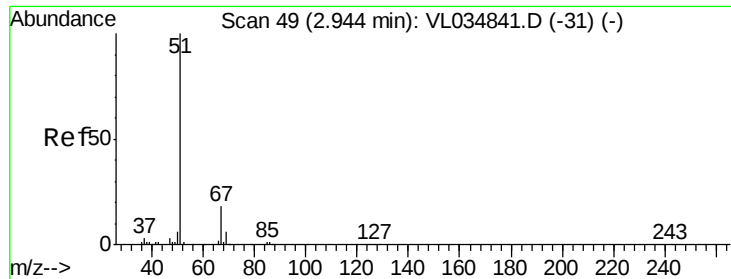
Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Tgt Ion:	85	Resp:	936698
Ion Ratio	Lower	Upper	
85	100		
87	34.9	26.9	40.3





#3

Chlorodifluoromethane

Concen: 9.213 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 930089

Ion Ratio Lower Upper

51 100

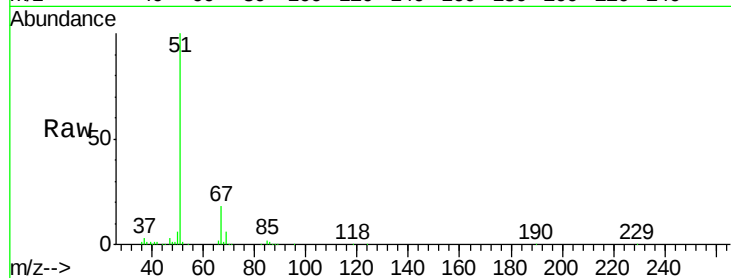
67 19.1 14.3 21.5

Manual Integrations

APPROVED

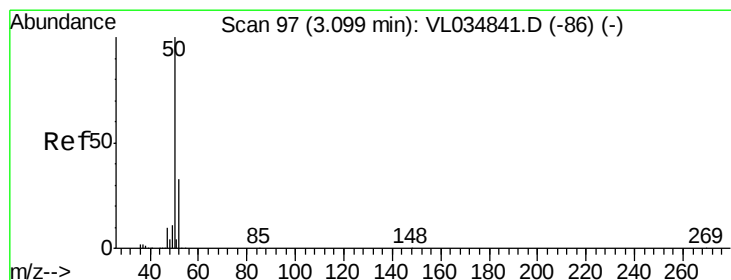
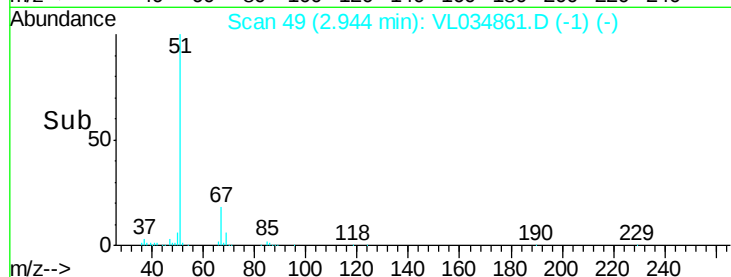
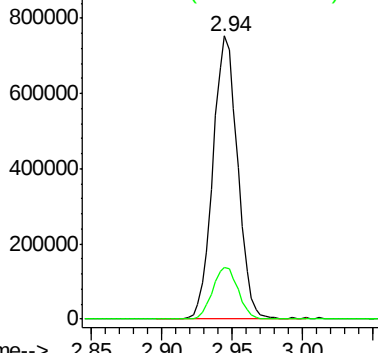
apatel

3/16/2020 12:25:40 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.706 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034861.D

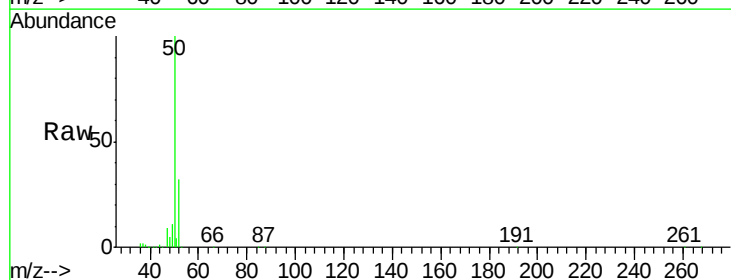
Acq: 10 Mar 2020 8:58

Tgt Ion: 50 Resp: 553771

Ion Ratio Lower Upper

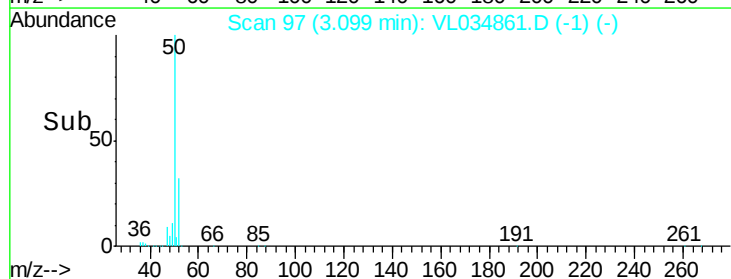
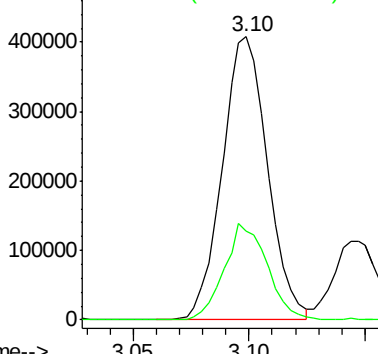
50 100

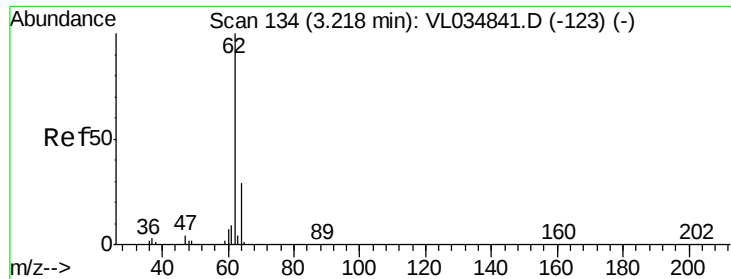
52 31.5 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.510 ppbv

RT: 3.21 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 521661

Ion Ratio Lower Upper

62 100

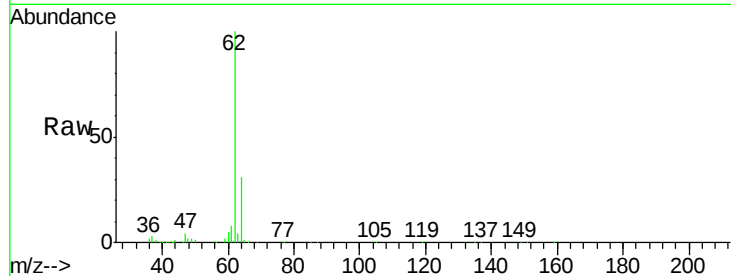
64 31.3 23.0 34.4

Manual Integrations

APPROVED

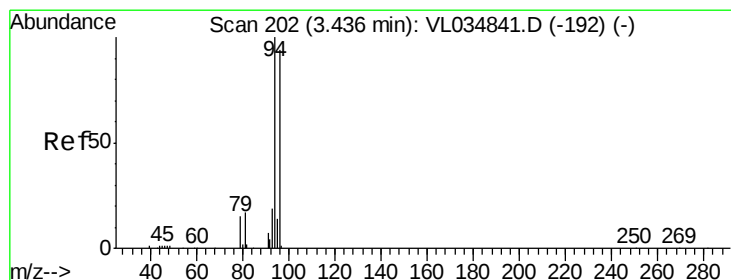
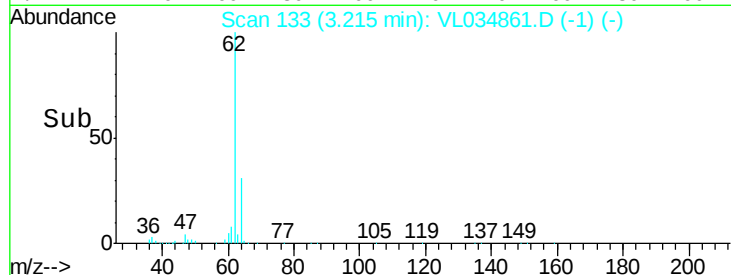
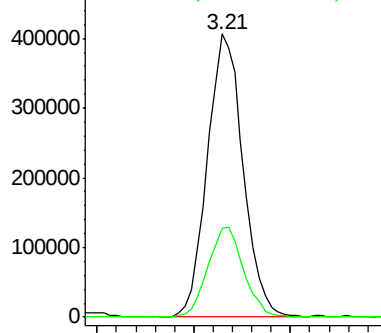
apatel

3/16/2020 12:25:40 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.707 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL034861.D

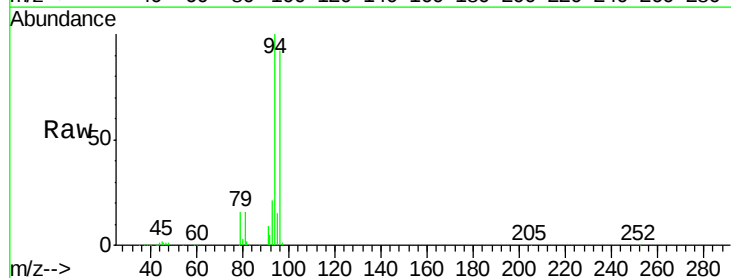
Acq: 10 Mar 2020 8:58

Tgt Ion: 94 Resp: 309965

Ion Ratio Lower Upper

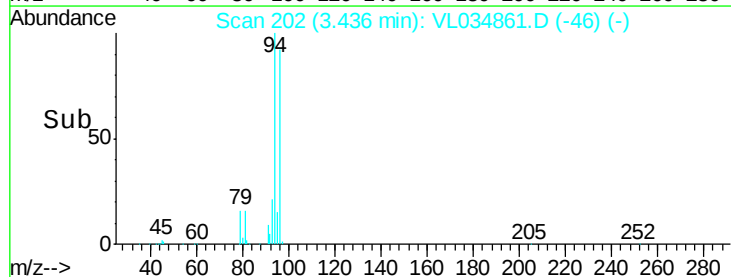
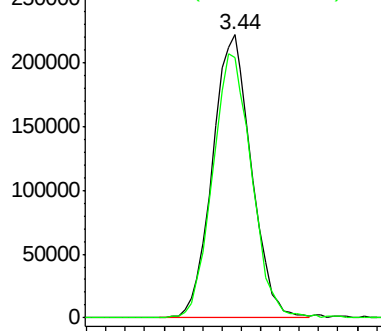
94 100

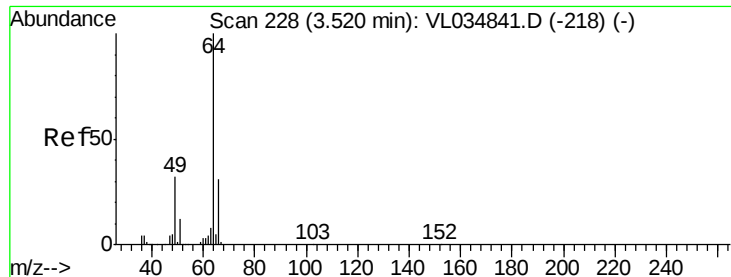
96 91.9 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.609 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 190336

Ion Ratio Lower Upper

64 100

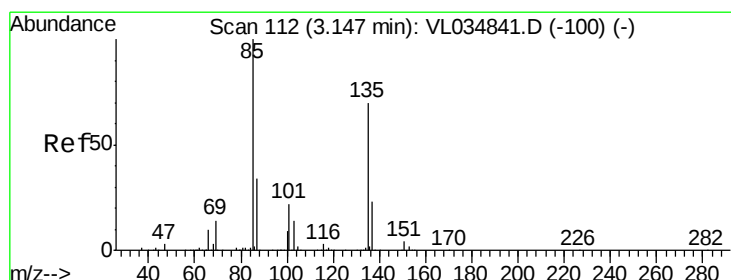
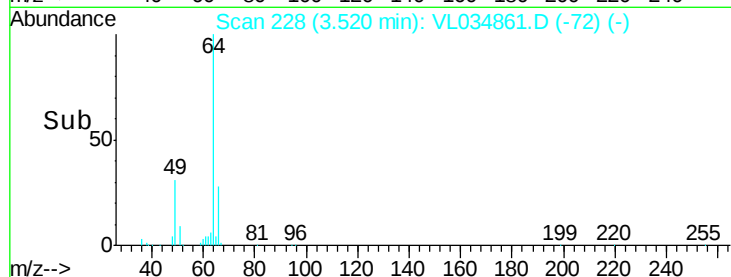
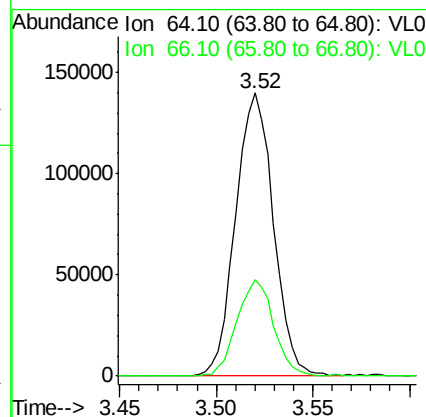
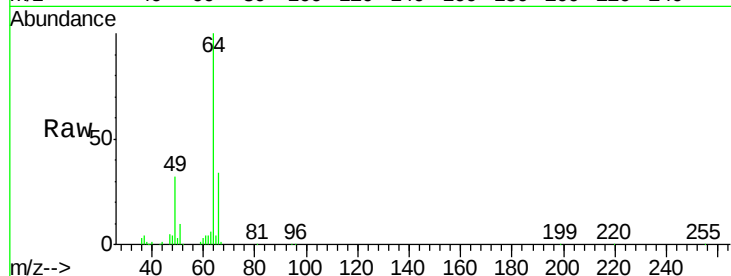
66 34.2 24.8 37.2

Manual Integrations

APPROVED

apatel

3/16/2020 12:25:40 PM



#8

Dichlorotetrafluoroethane

Concen: 9.115 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL034861.D

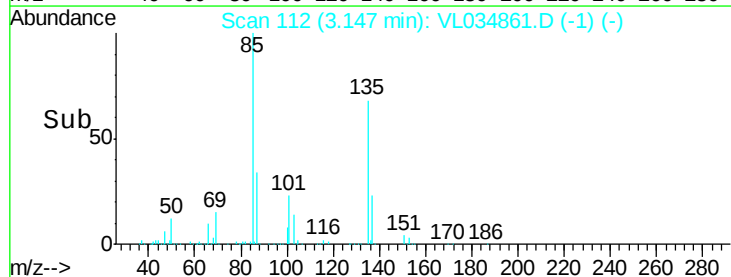
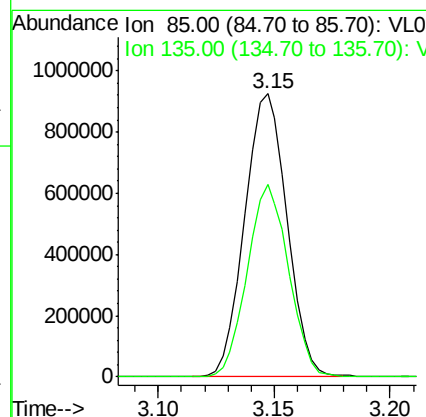
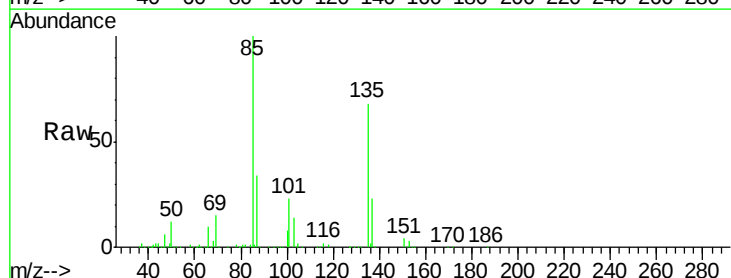
Acq: 10 Mar 2020 8:58

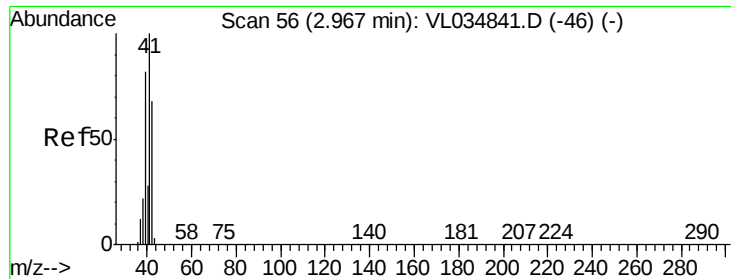
Tgt Ion: 85 Resp: 1171469

Ion Ratio Lower Upper

85 100

135 66.8 54.3 81.5





#9

Propene

Concen: 9.002 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 433886

Ion Ratio Lower Upper

41 100

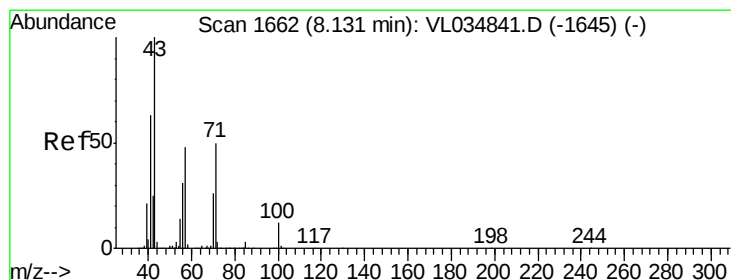
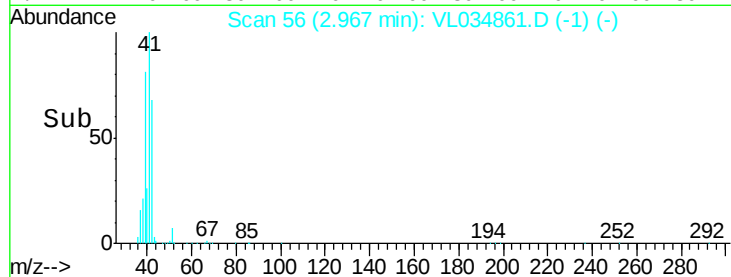
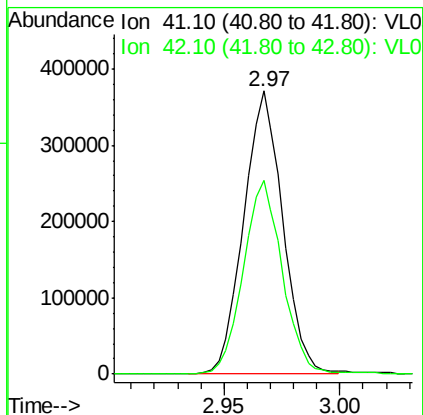
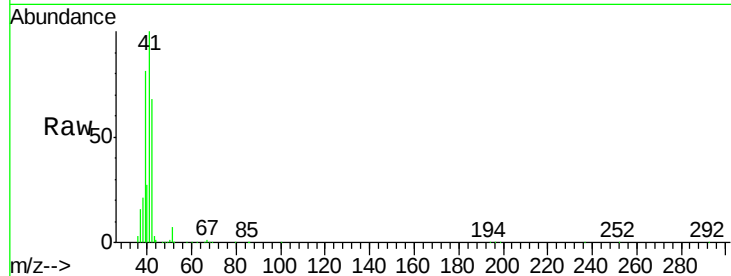
42 69.0 55.2 82.8

Manual Integrations

APPROVED

apatel

3/16/2020 12:25:40 PM



#10

Heptane

Concen: 9.697 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL034861.D

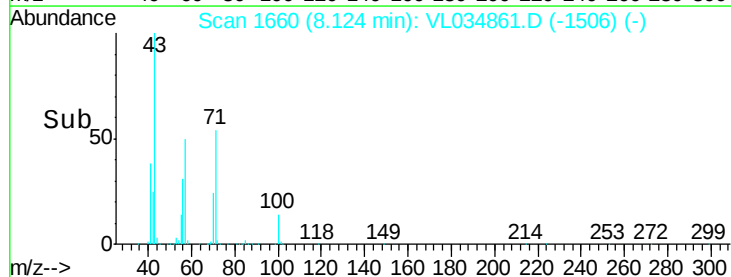
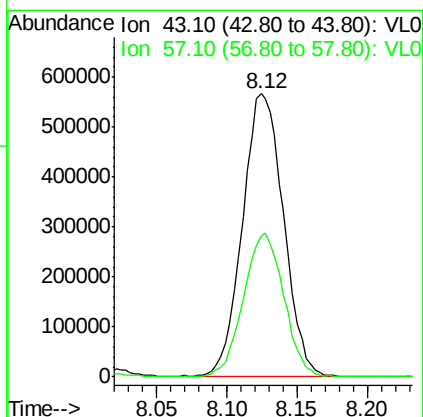
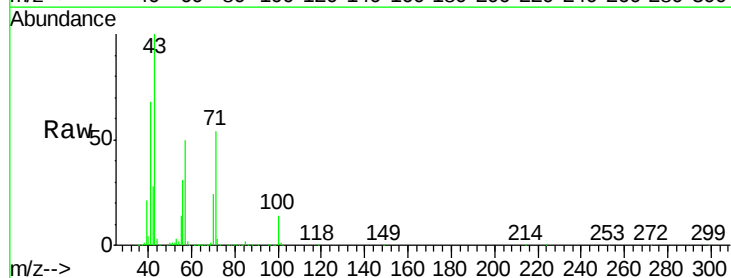
Acq: 10 Mar 2020 8:58

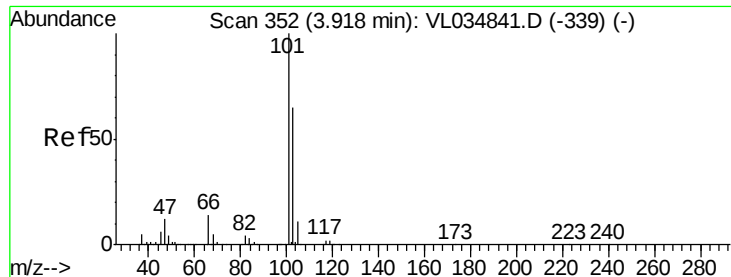
Tgt Ion: 43 Resp: 1150260

Ion Ratio Lower Upper

43 100

57 50.3 39.7 59.5





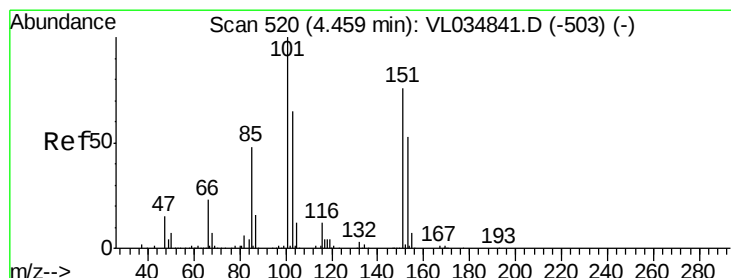
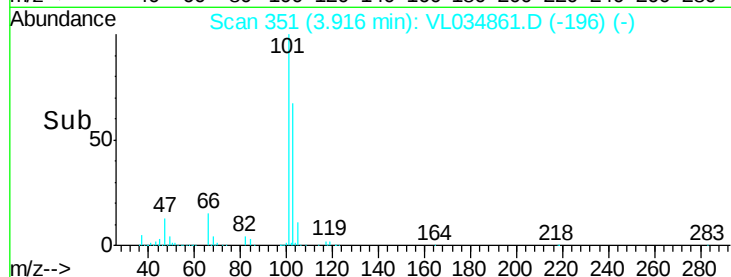
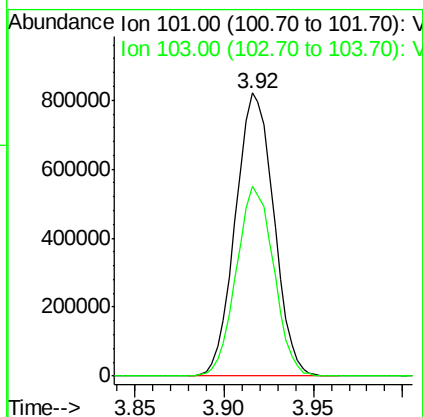
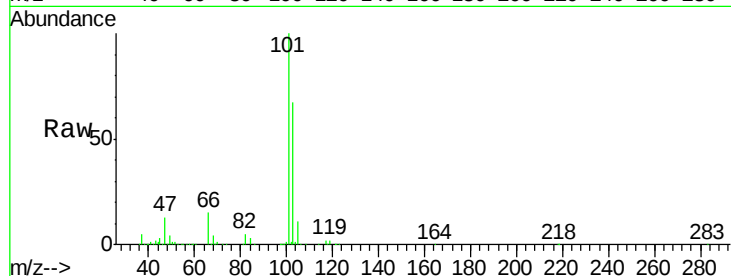
#11
 Trichlorofluoromethane
 Concen: 9.336 ppbv
 RT: 3.92 min Scan# 351
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1229208
 Ion Ratio Lower Upper
 101 100
 103 66.9 51.8 77.8

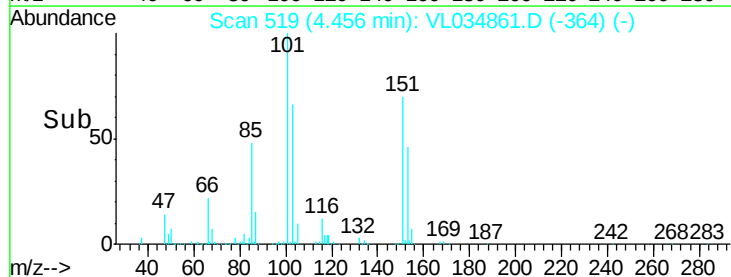
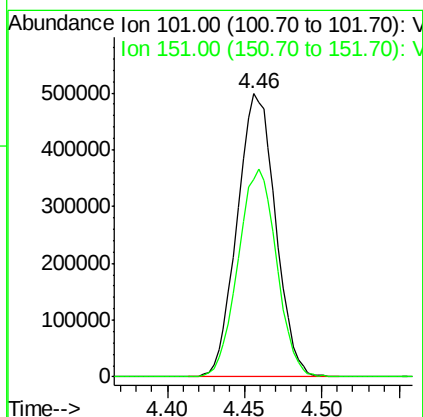
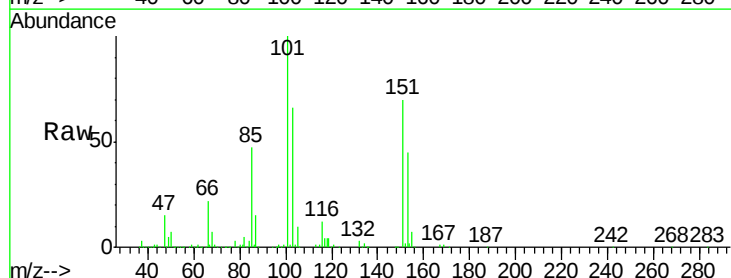
Manual Integrations
 APPROVED

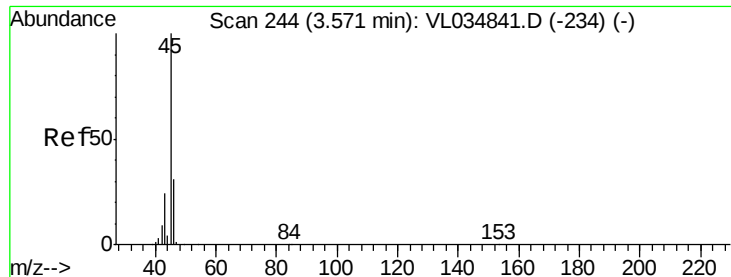
apatel
 3/16/2020 12:25:40 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.349 ppbv
 RT: 4.46 min Scan# 519
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion:101 Resp: 861471
 Ion Ratio Lower Upper
 101 100
 151 73.6 60.8 91.2





#13

Ethanol

Concen: 8.866 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 129921

Ion Ratio Lower Upper

45 100

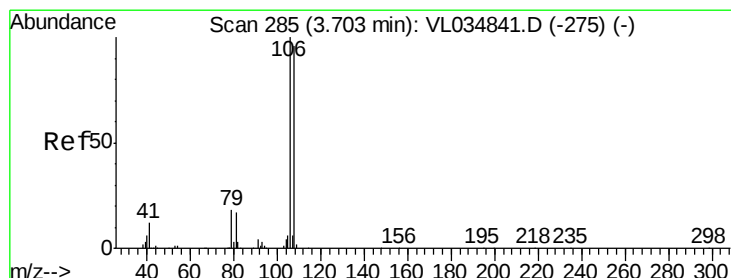
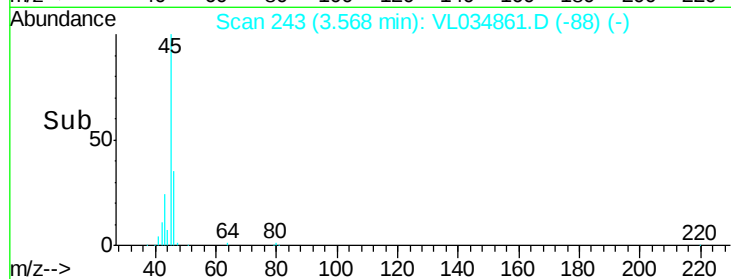
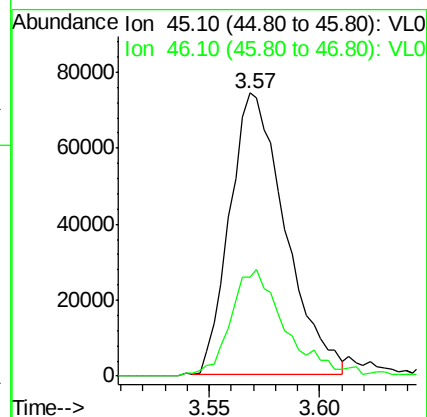
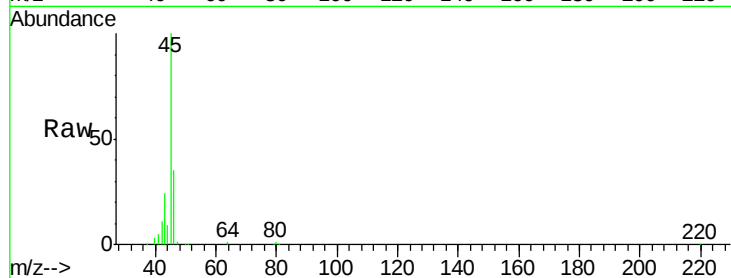
46 37.9 16.0 64.0

Manual Integrations

APPROVED

apatel

3/16/2020 12:25:40 PM



#14

Bromoethene

Concen: 9.566 ppbv

RT: 3.71 min Scan# 286

Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

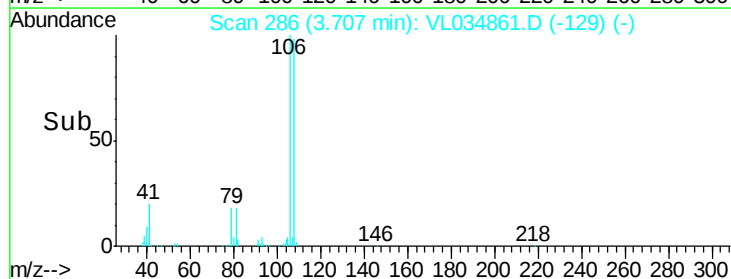
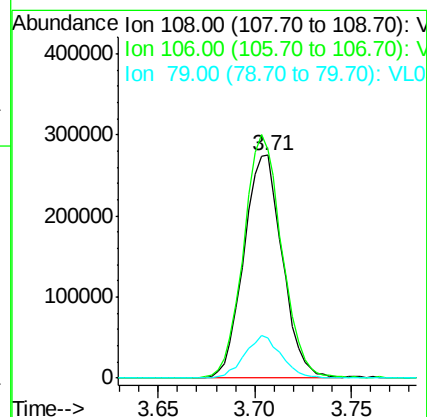
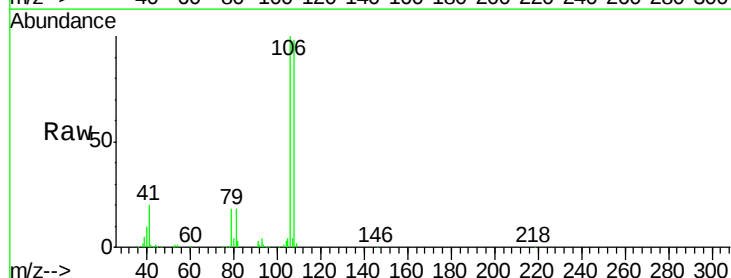
Tgt Ion: 108 Resp: 380673

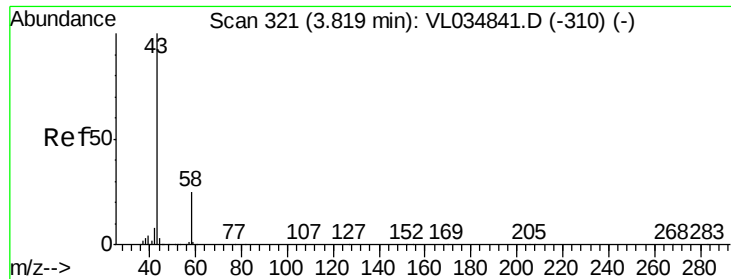
Ion Ratio Lower Upper

108 100

106 109.0 85.1 127.7

79 18.4 14.7 22.1





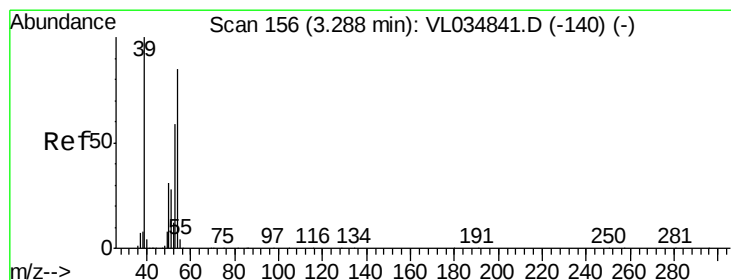
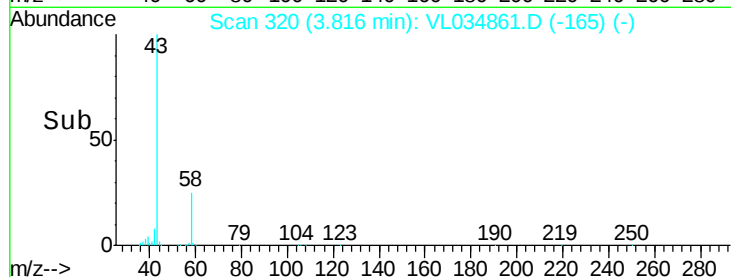
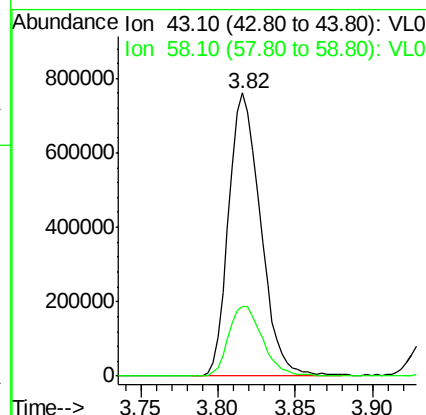
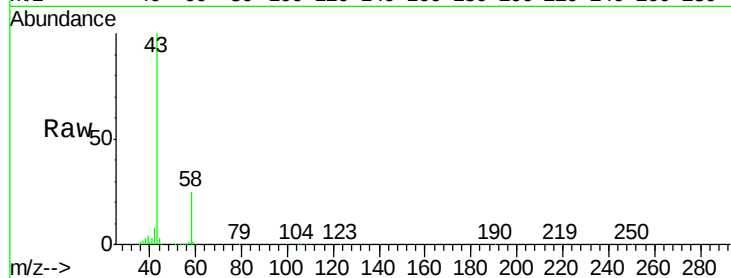
#15
Acetone
Concen: 9.330 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1092821
Ion Ratio Lower Upper
43 100
58 26.2 21.0 31.6

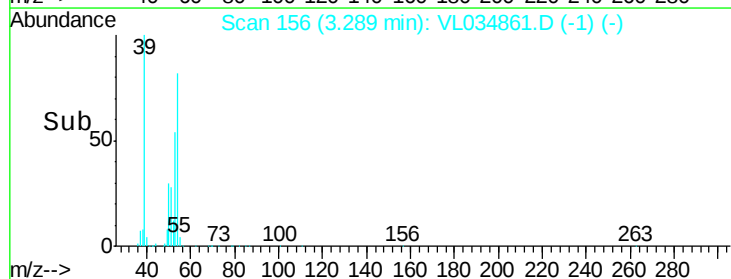
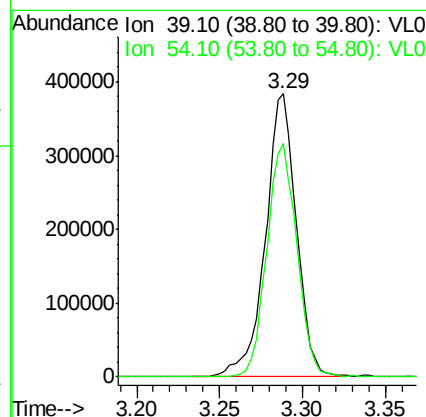
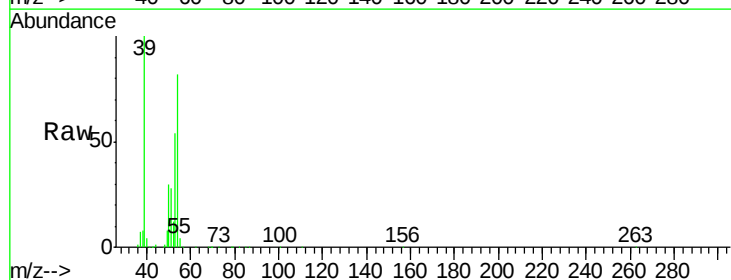
Manual Integrations
APPROVED

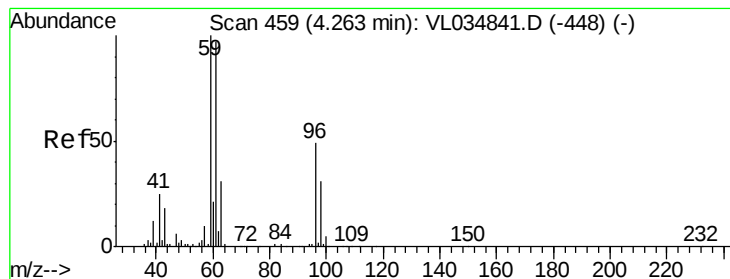
apatel
3/16/2020 12:25:40 PM



#16
1,3-Butadiene
Concen: 9.423 ppbv
RT: 3.29 min Scan# 156
Delta R.T. 0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion: 39 Resp: 499119
Ion Ratio Lower Upper
39 100
54 80.5 65.0 97.6





#17

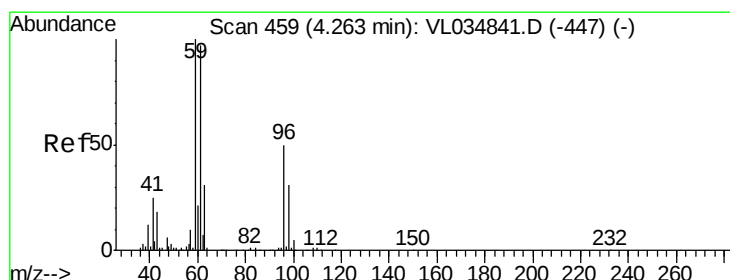
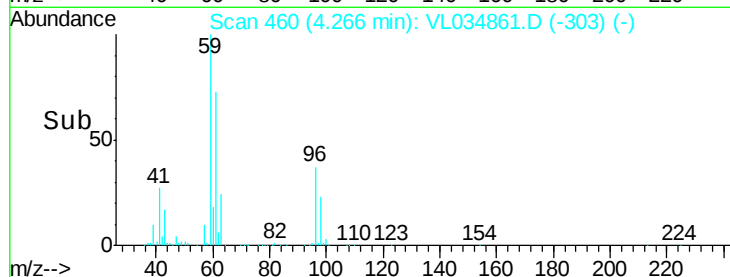
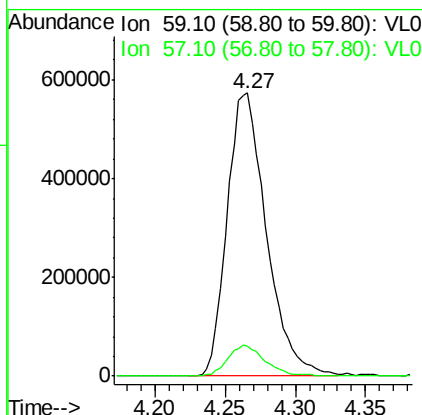
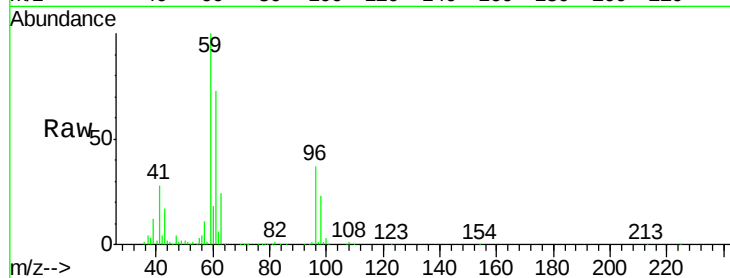
tert-Butyl alcohol
Concen: 9.892 ppbv
RT: 4.27 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1116305
Ion Ratio Lower Upper
59 100
57 10.6 8.3 12.5

Manual Integrations
APPROVED

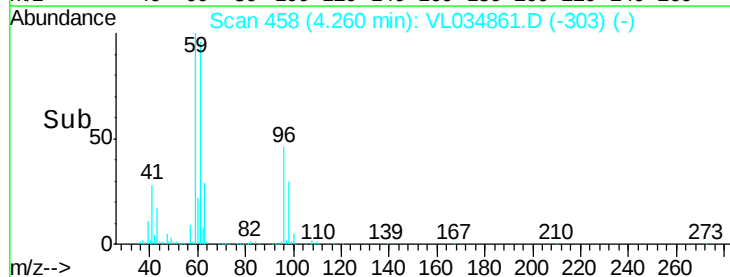
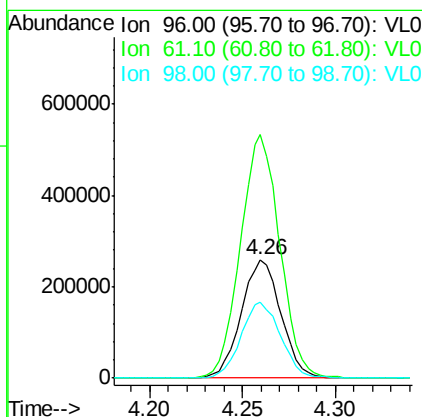
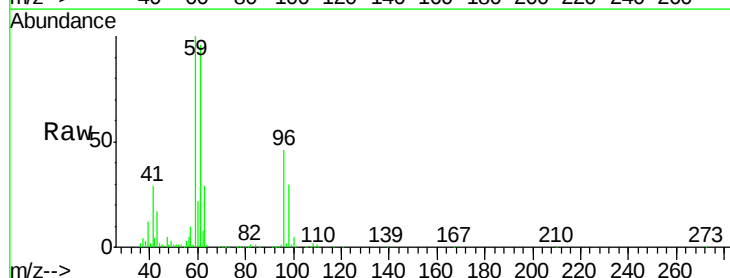
apatel
3/16/2020 12:25:40 PM

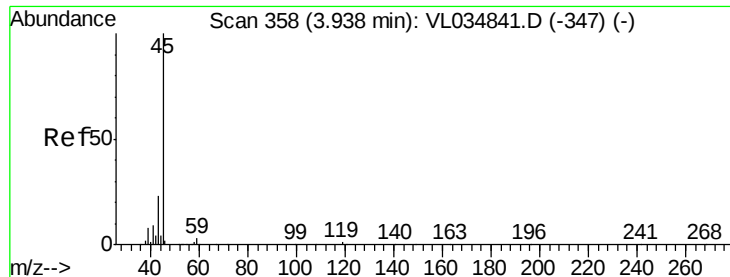


#18

1,1-Dichloroethene
Concen: 9.406 ppbv
RT: 4.26 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion: 96 Resp: 383833
Ion Ratio Lower Upper
96 100
61 205.7 157.3 235.9
98 64.1 50.2 75.4





#19

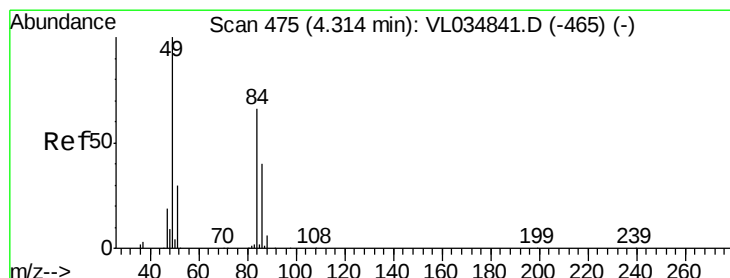
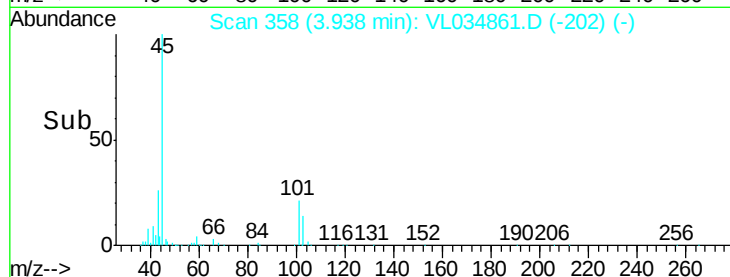
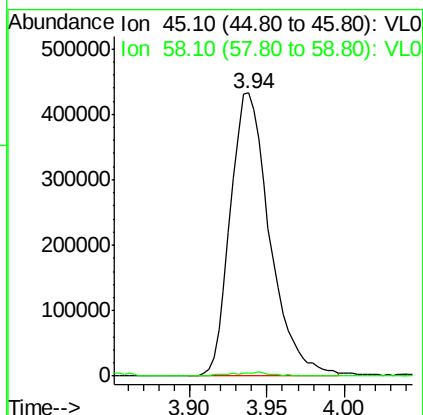
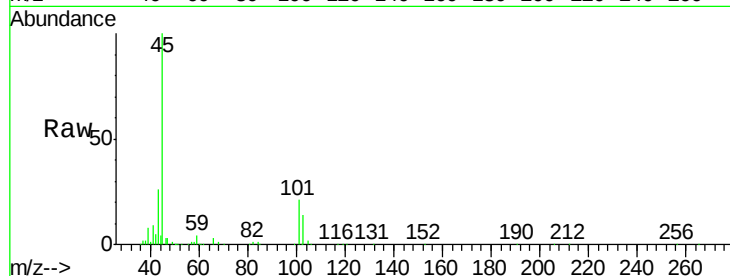
Isopropyl Alcohol
 Concen: 10.329 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.8	30.5	45.7#

Manual Integrations
 APPROVED

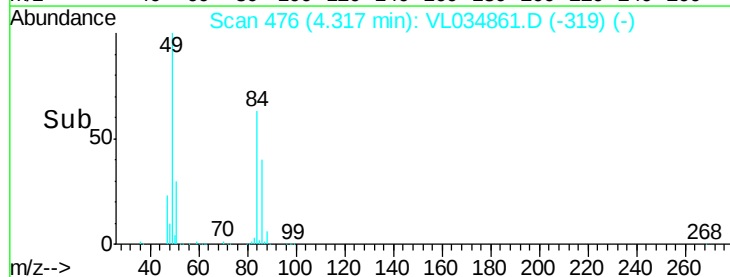
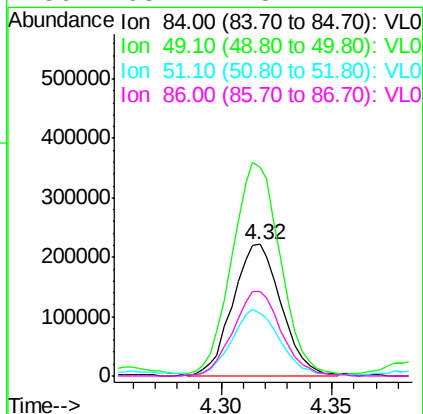
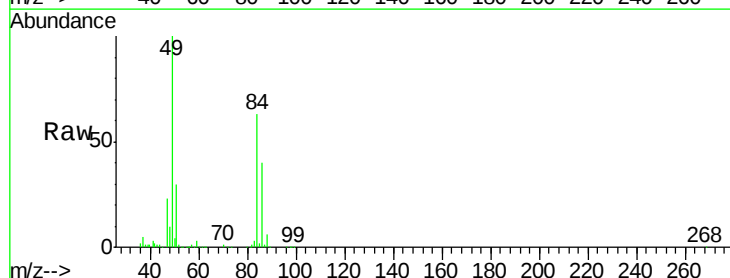
apatel
 3/16/2020 12:25:40 PM

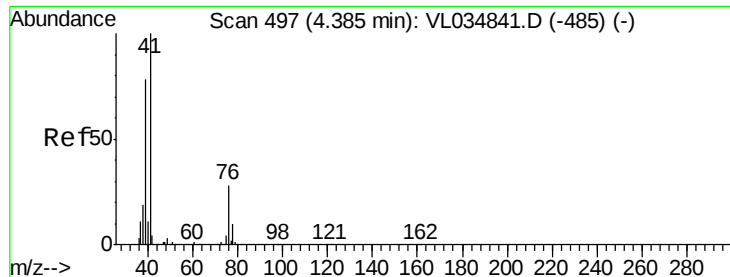


#20

Methylene Chloride
 Concen: 9.107 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
84	100		
49	157.5	121.5	182.3
51	47.4	36.6	55.0
86	63.7	48.2	72.2





#21

Allvl Chloride

Concen: 9.594 ppbv

RT: 4.38 min Scan# 497

Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

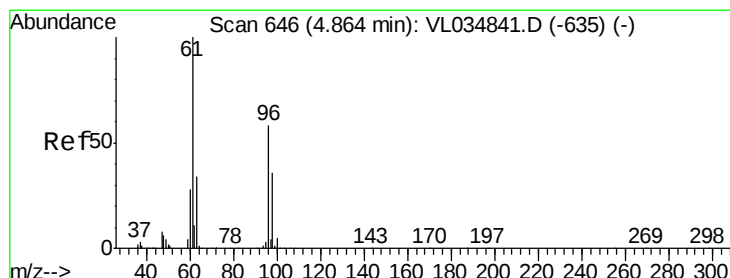
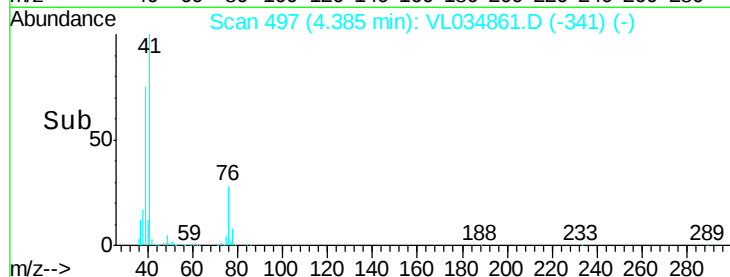
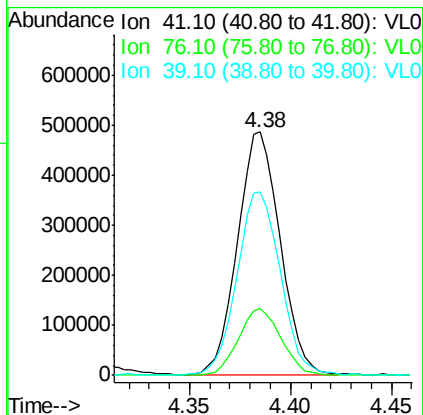
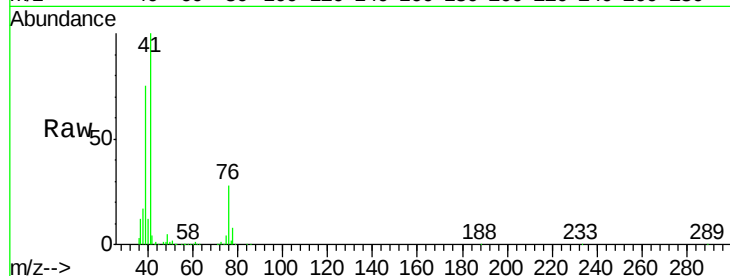
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	721721
Ion Ratio	Lower	Upper	
41	100		
76	27.7	22.2	33.2
39	76.9	62.6	93.8

Manual Integrations
APPROVED

apatel
3/16/2020 12:25:40 PM



#22

trans-1,2-Dichloroethene

Concen: 9.535 ppbv

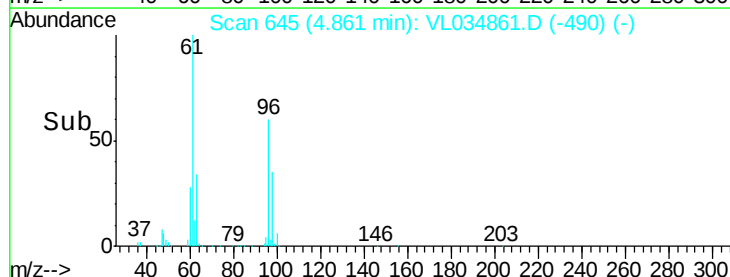
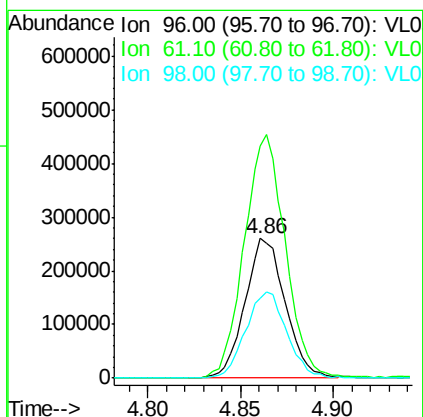
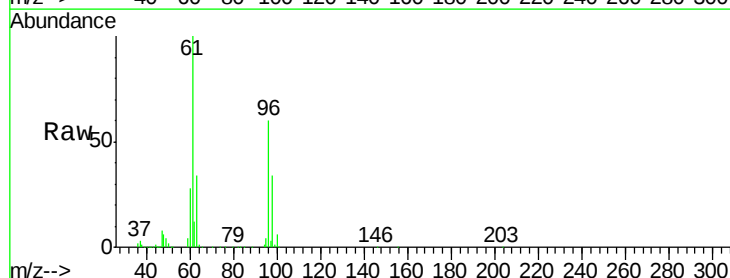
RT: 4.86 min Scan# 645

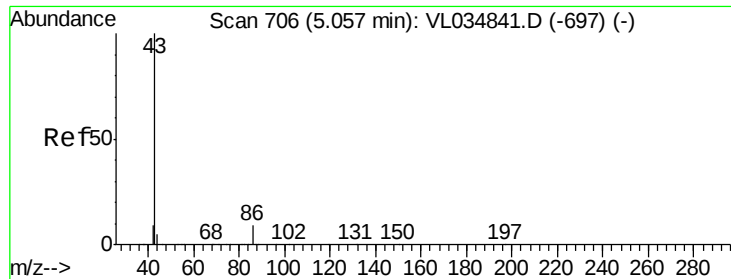
Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Tgt Ion:	96	Resp:	394740
Ion Ratio	Lower	Upper	
96	100		
61	166.4	139.0	208.6
98	57.3	50.3	75.5





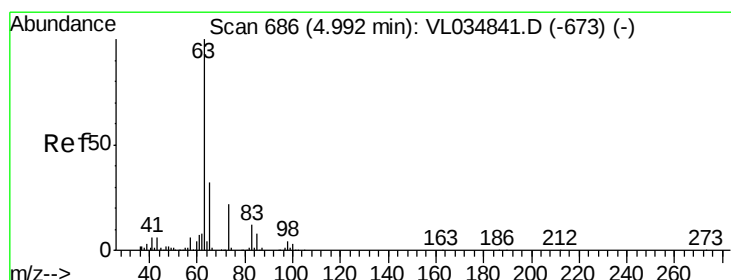
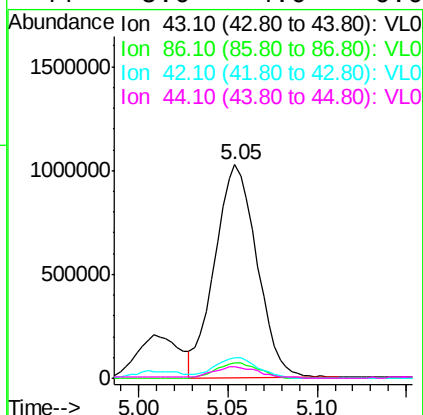
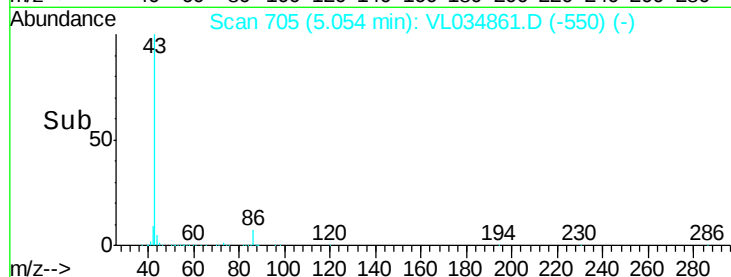
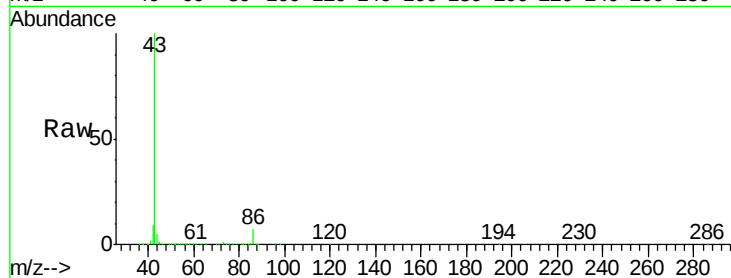
#23
 Vinyl Acetate
 Concen: 9.701 ppbv
 RT: 5.05 min Scan# 705
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.5	6.3	9.5	
42	9.4	7.8	11.8	
44	5.0	4.0	6.0	

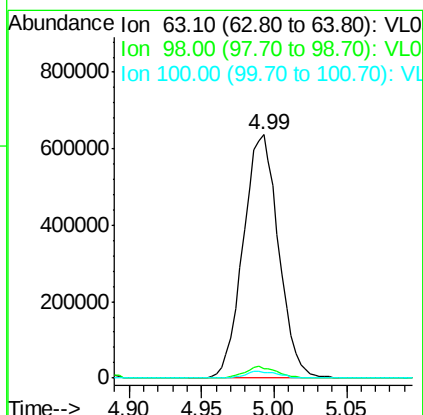
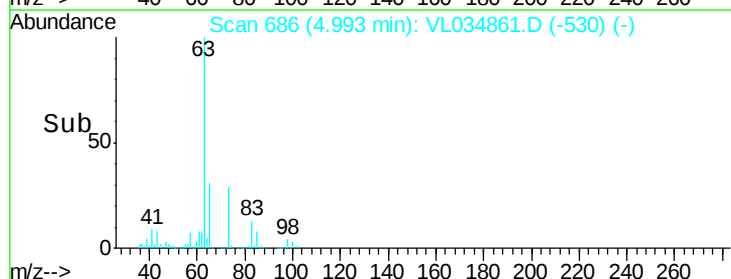
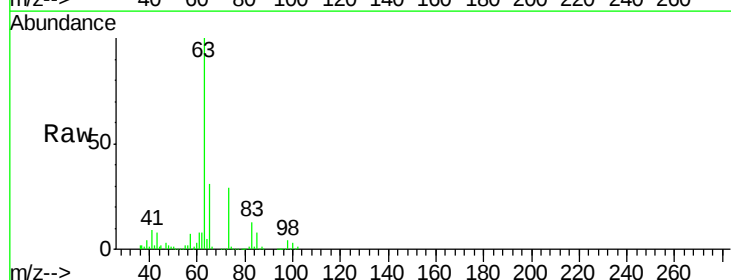
Manual Integrations
 APPROVED

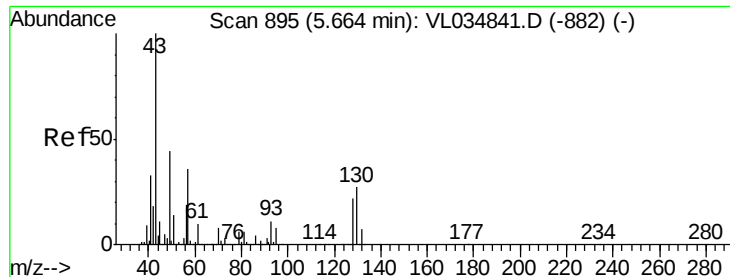
apatel
 3/16/2020 12:25:40 PM



#24
 1,1-Dichloroethane
 Concen: 9.303 ppbv
 RT: 4.99 min Scan# 686
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.7	2.0	5.8	
100	2.5	1.4	4.0	





#25

Ethyl Acetate

Concen: 9.233 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1926722

Ion Ratio Lower Upper

43 100

45 9.8 8.2 12.2

61 9.6 7.8 11.6

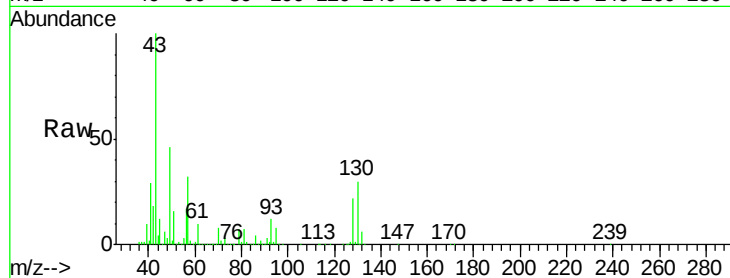
70 7.5 5.8 8.8

Manual Integrations

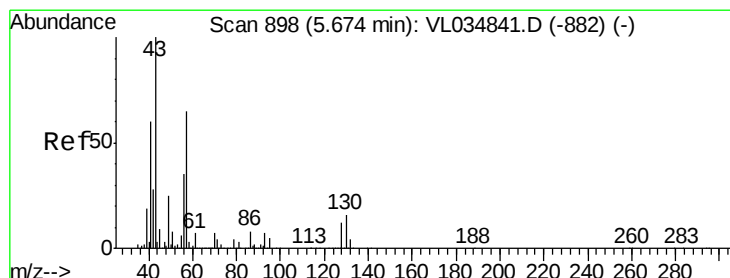
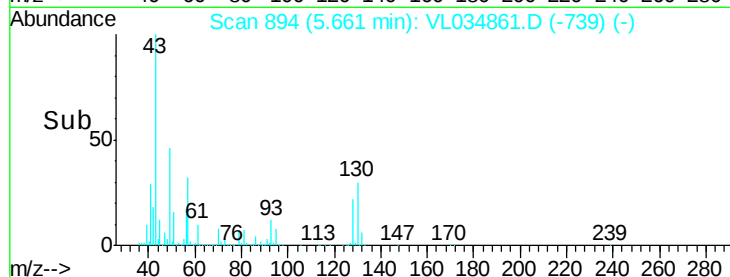
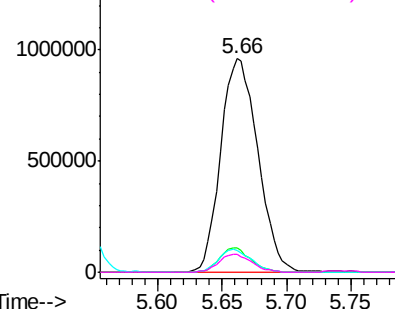
APPROVED

apatel

3/16/2020 12:25:40 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.353 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Tgt Ion: 57 Resp: 840473

Ion Ratio Lower Upper

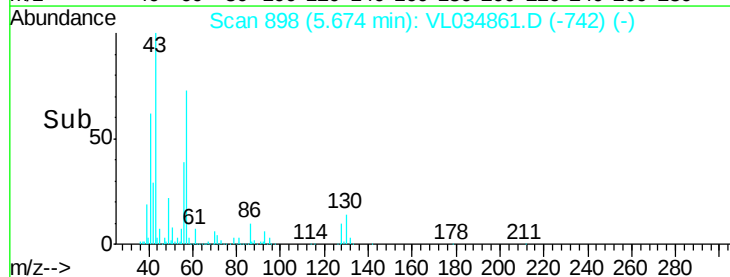
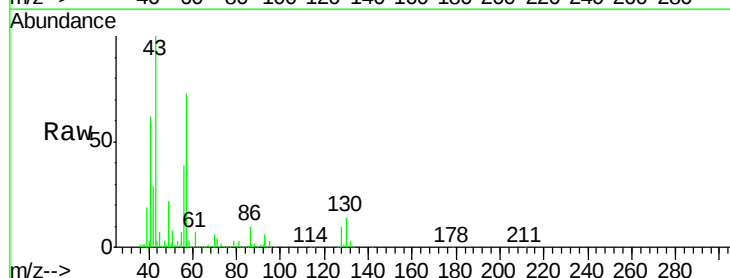
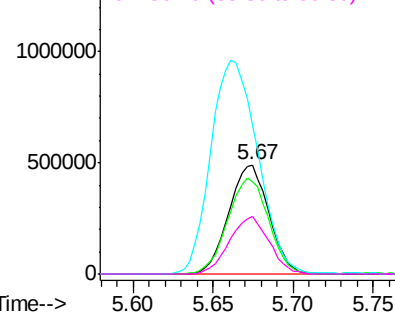
57 100

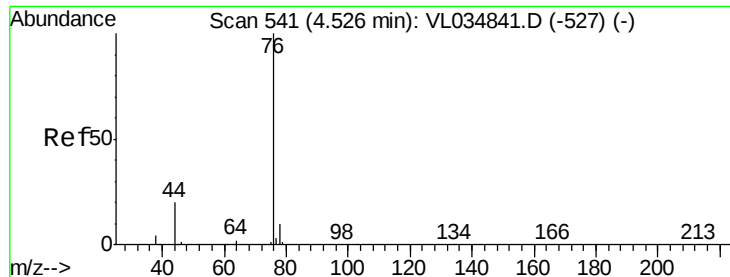
41 89.8 72.6 109.0

43 229.8 183.8 275.6

56 52.4 41.9 62.9

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





#27

Carbon Disulfide

Concen: 9.922 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1011779

Ion Ratio Lower Upper

76 100

44 19.6 16.2 24.2

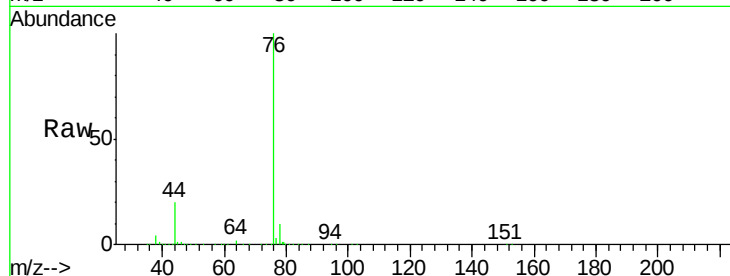
78 9.2 7.8 11.6

Manual Integrations

APPROVED

apatel

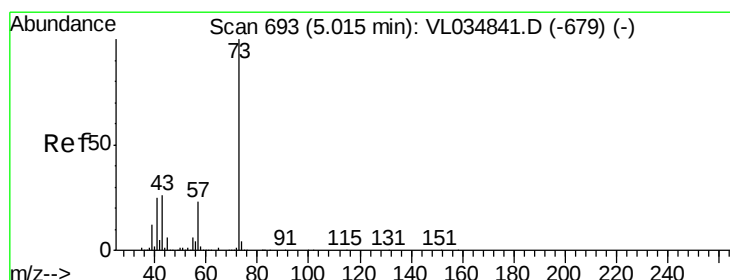
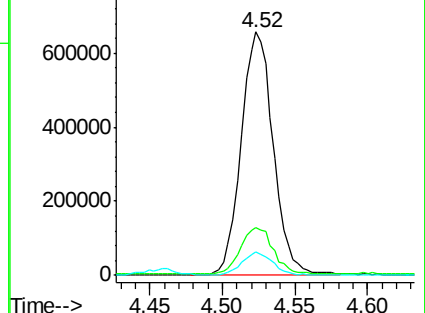
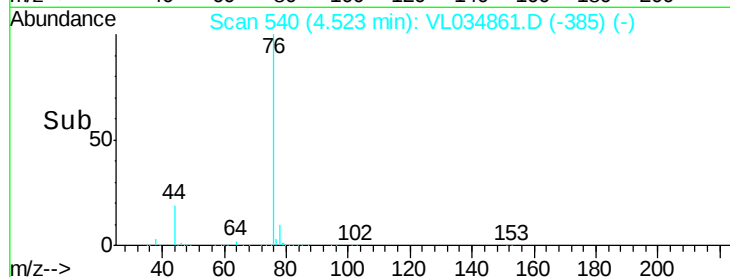
3/16/2020 12:25:40 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.144 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL034861.D

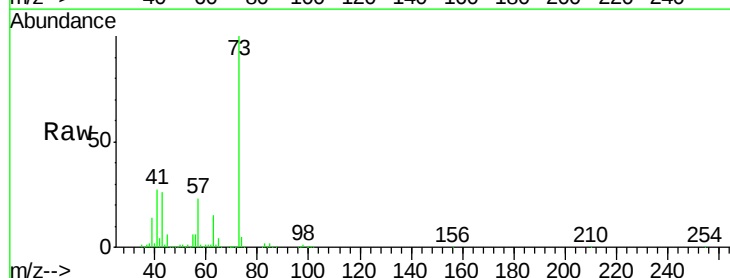
Acq: 10 Mar 2020 8:58

Tgt Ion: 73 Resp: 1367096

Ion Ratio Lower Upper

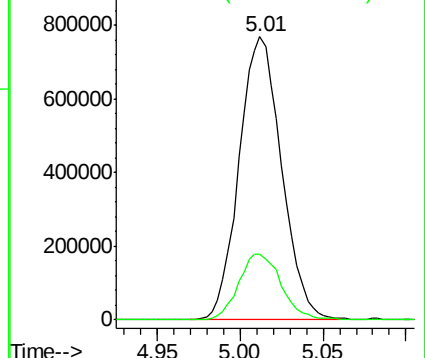
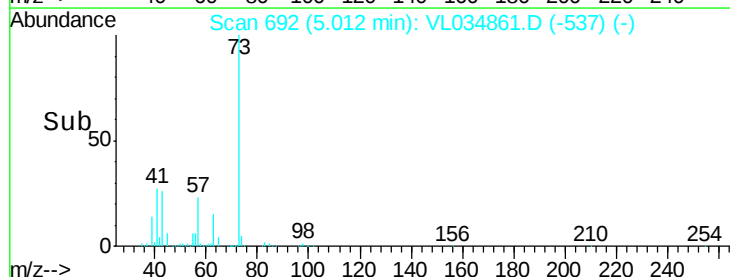
73 100

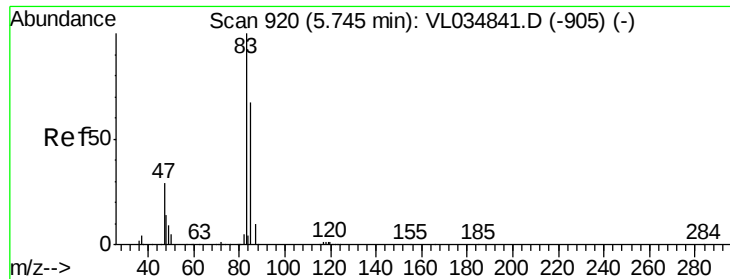
57 23.5 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





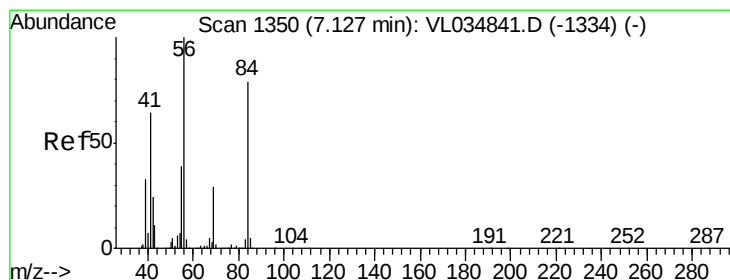
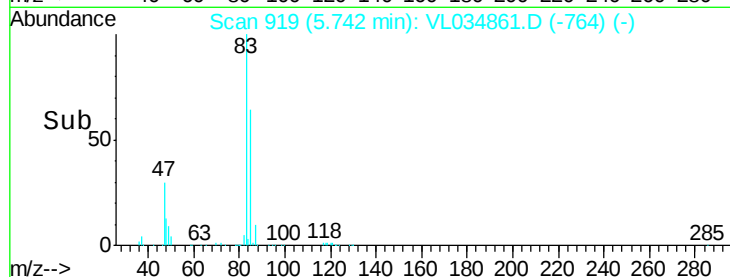
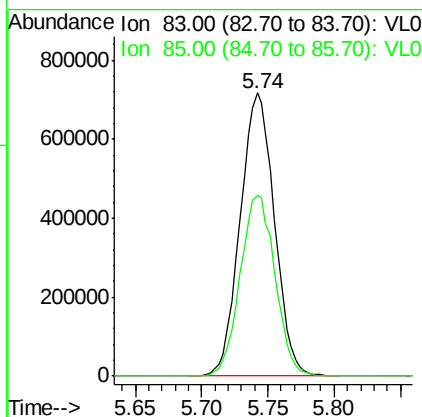
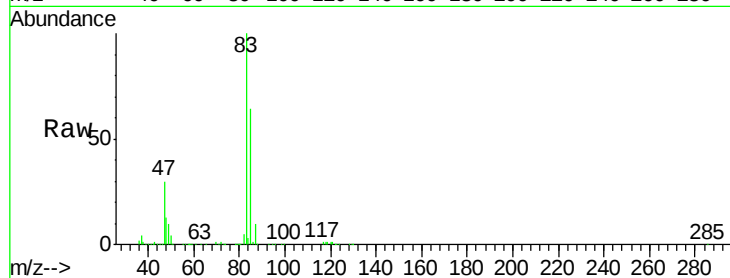
#29
Chloroform
Concen: 9.385 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1286722
Ion Ratio Lower Upper
83 100
85 64.0 53.8 80.6

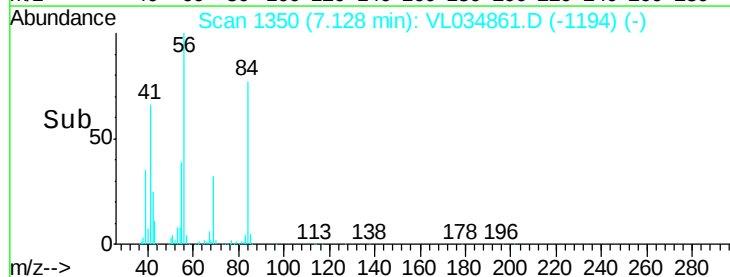
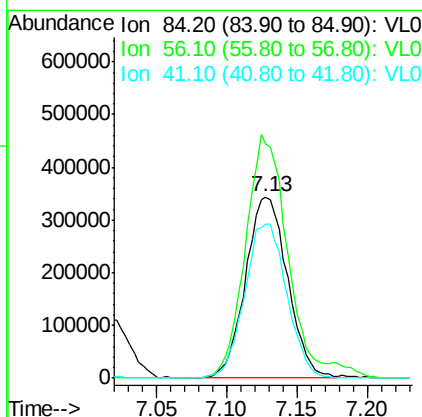
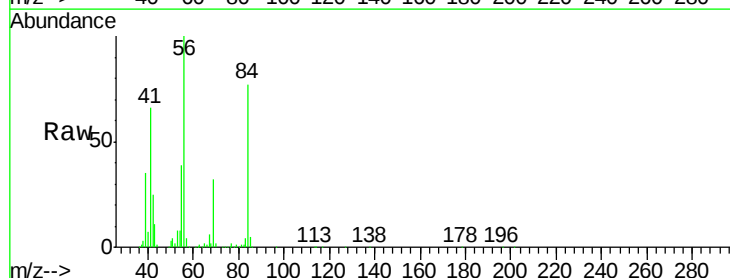
Manual Integrations
APPROVED

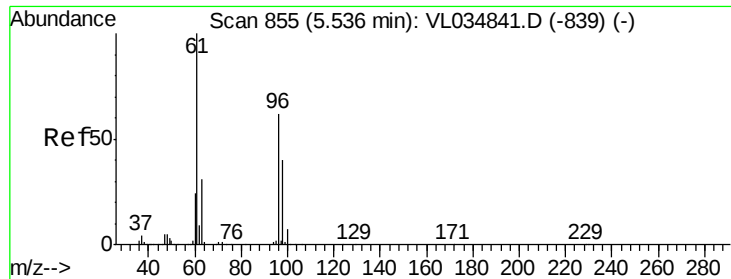
apatel
3/16/2020 12:25:40 PM



#30
Cyclohexane
Concen: 9.532 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion: 84 Resp: 714663
Ion Ratio Lower Upper
84 100
56 138.1 110.5 165.7
41 85.9 68.2 102.4





#31

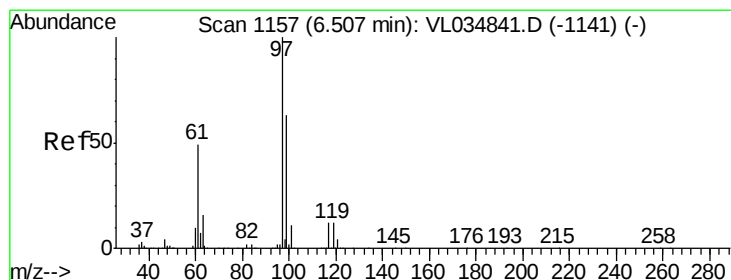
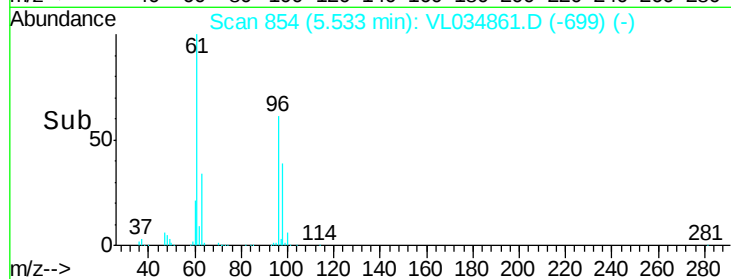
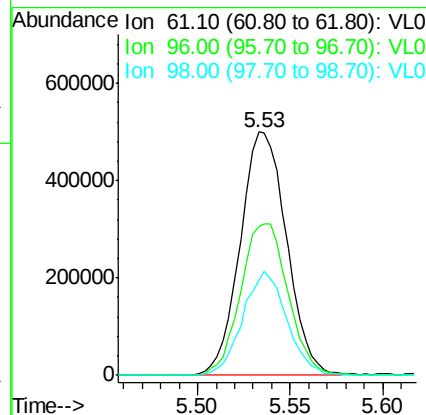
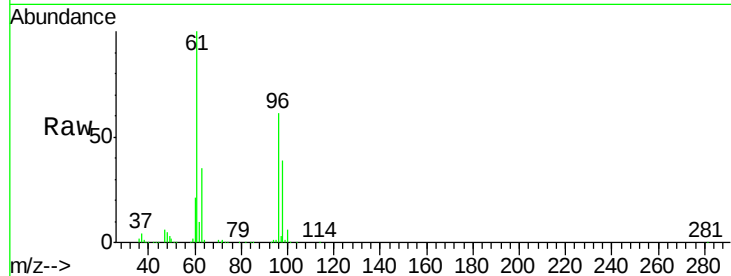
cis-1,2-Dichloroethene
Concen: 9.427 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	60.8	49.8	74.8
98	39.2	32.2	48.4

Manual Integrations
APPROVED

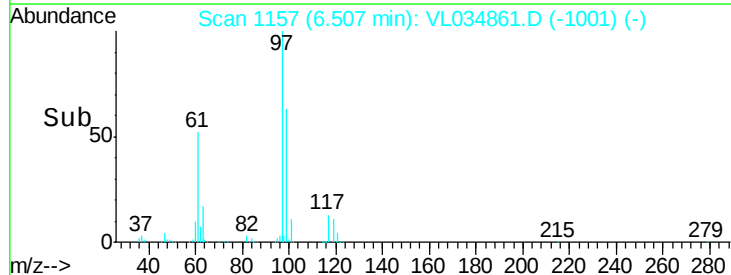
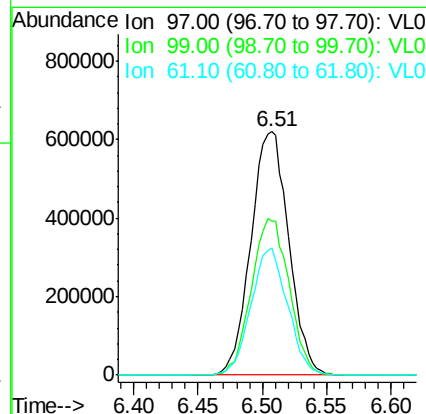
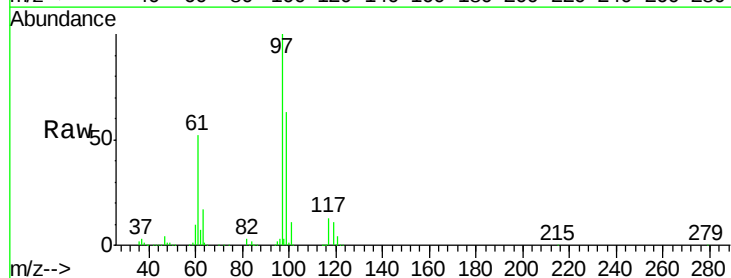
apatel
3/16/2020 12:25:40 PM

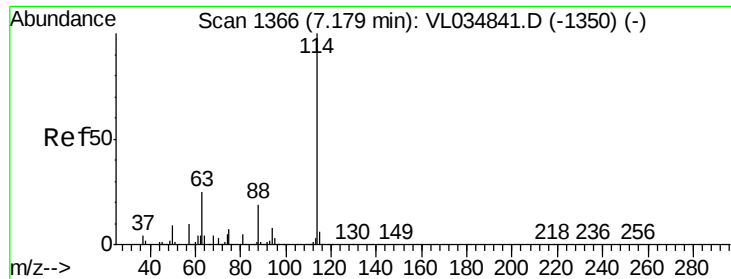


#32

1,1,1-Trichloroethane
Concen: 9.497 ppbv
RT: 6.51 min Scan# 1157
Delta R.T. 0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	50.5	39.7	59.5





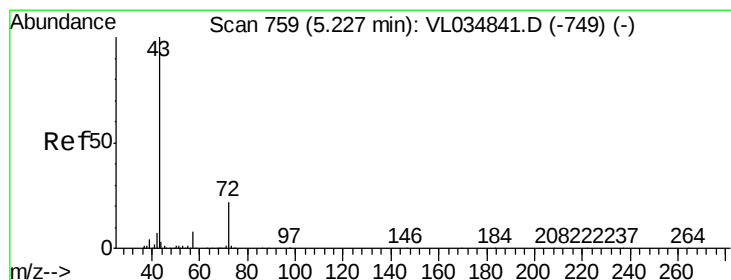
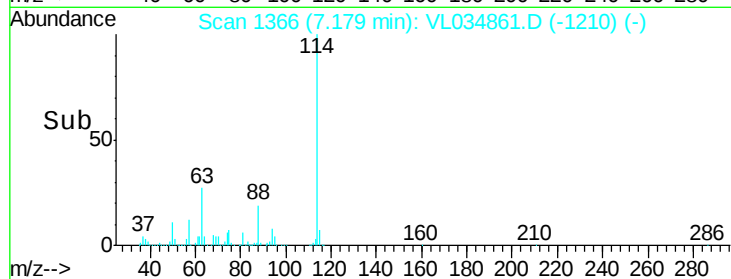
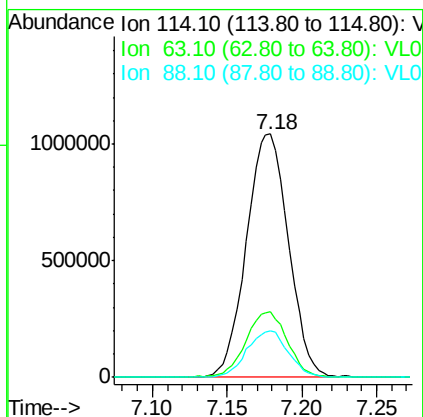
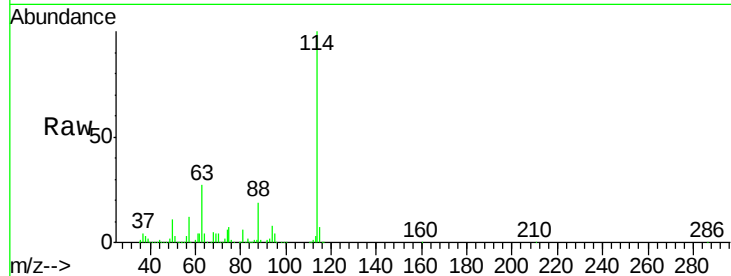
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 2041870
 Ion Ratio Lower Upper
 114 100
 63 26.8 20.6 31.0
 88 18.7 15.0 22.6

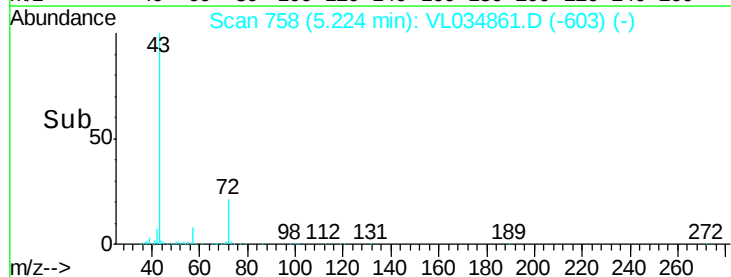
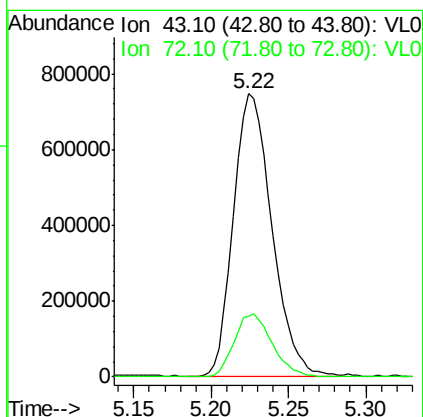
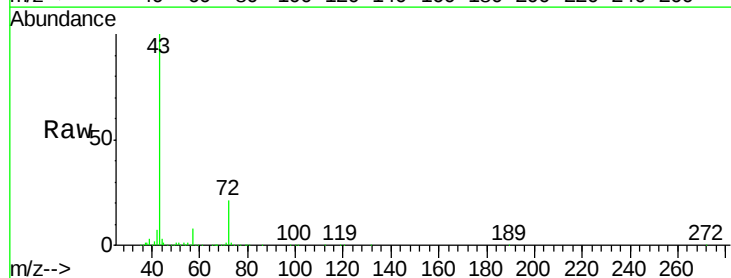
Manual Integrations
 APPROVED

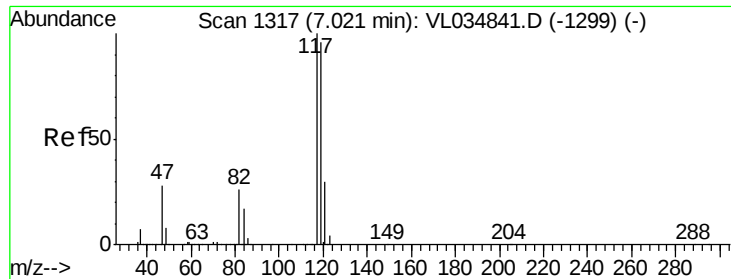
apatel
 3/16/2020 12:25:40 PM



#34
 2-Butanone
 Concen: 9.522 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion: 43 Resp: 1292036
 Ion Ratio Lower Upper
 43 100
 72 22.1 17.6 26.4





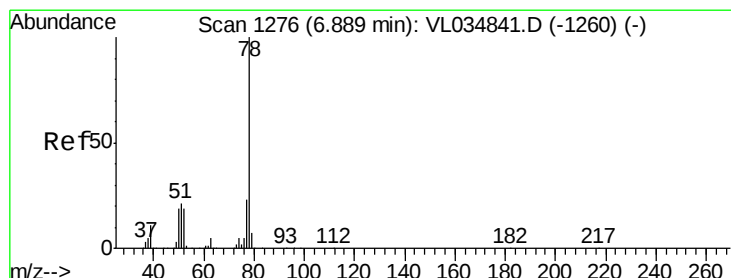
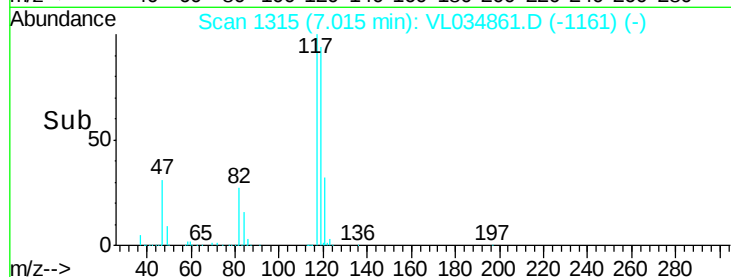
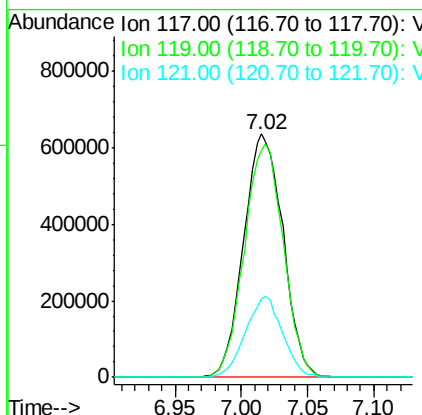
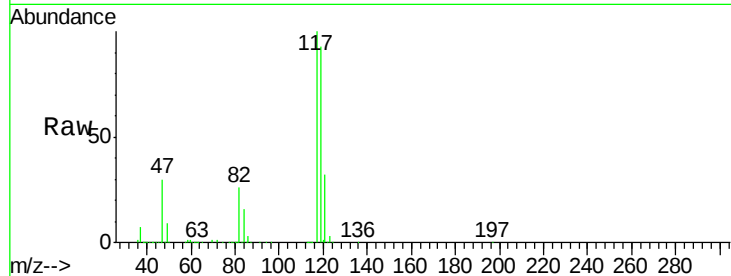
#35
Carbon Tetrachloride
Concen: 10.349 ppbv
RT: 7.02 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.0	115.4
121	32.0	24.0	36.0

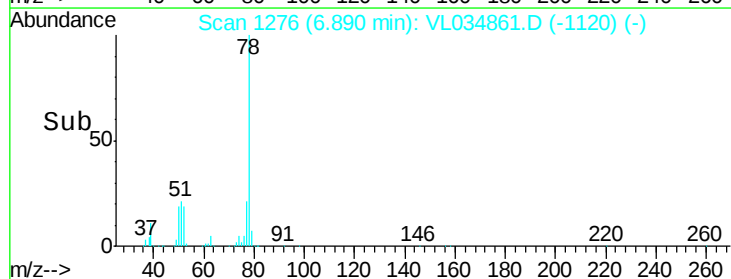
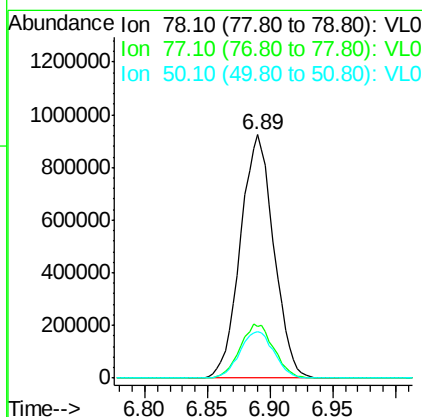
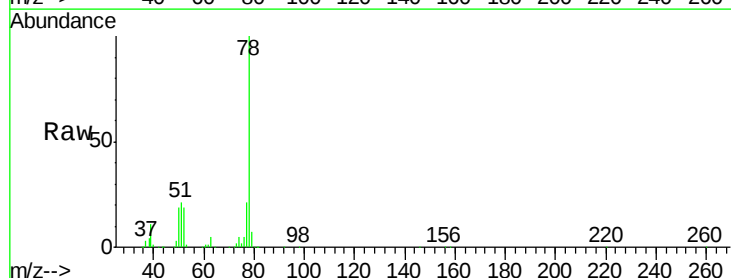
Manual Integrations
APPROVED

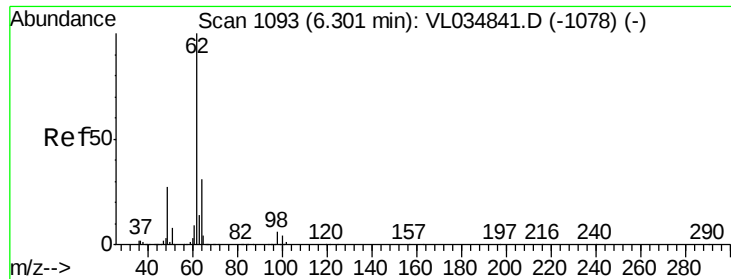
apatel
3/16/2020 12:25:40 PM



#36
Benzene
Concen: 9.420 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.0	18.2	27.2
50	19.3	15.2	22.8





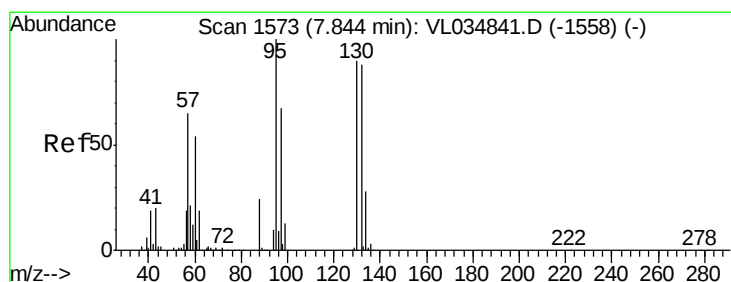
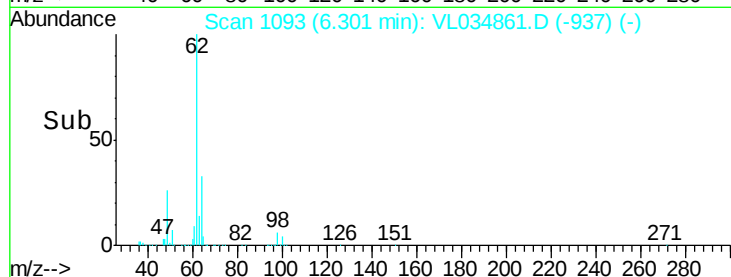
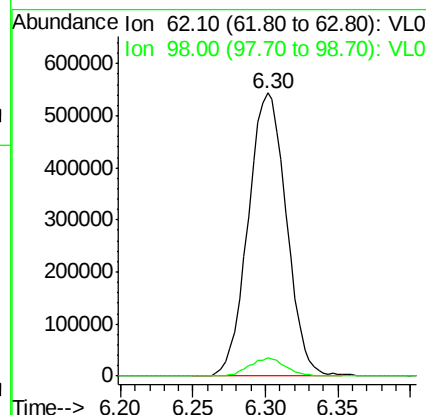
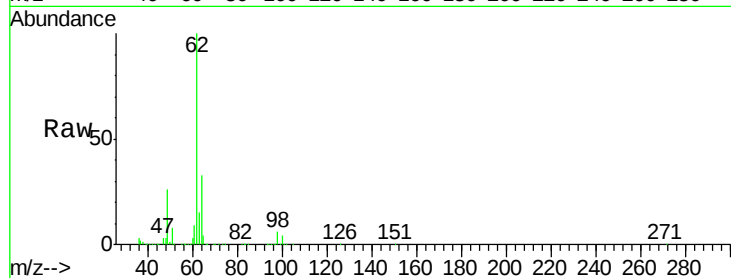
#37
 1,2-Dichloroethane
 Concen: 9.736 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
62	100	999119		
98	6.1	5.2	7.8	

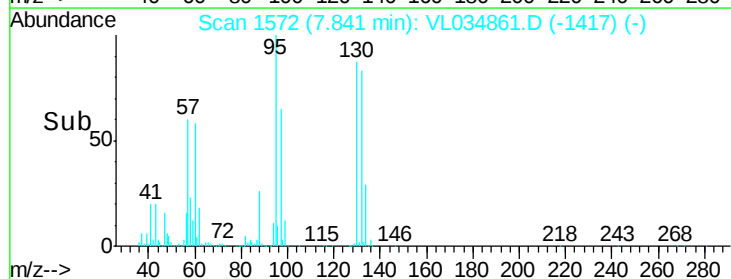
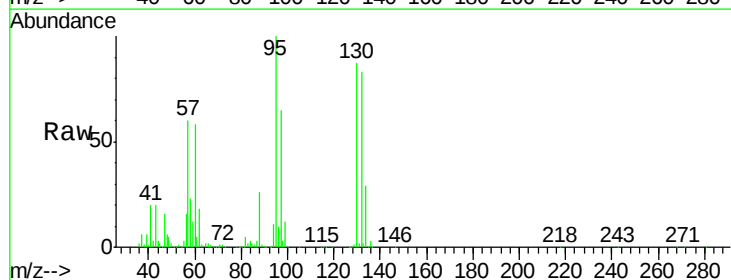
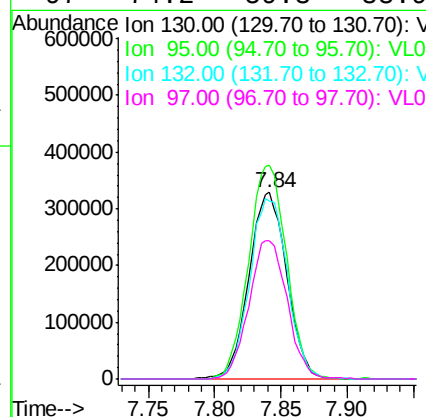
Manual Integrations
 APPROVED

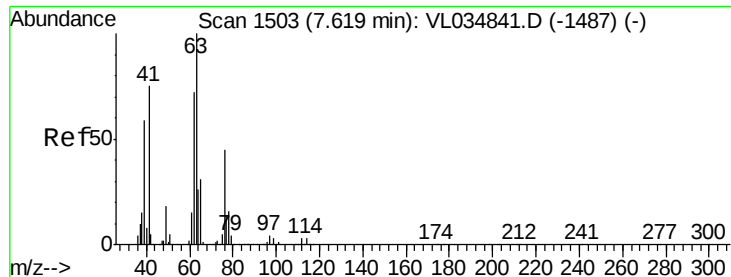
apatel
 3/16/2020 12:25:40 PM



#38
 Trichloroethene
 Concen: 9.391 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	649100		
95	114.5	88.5	132.7	
132	95.5	78.0	117.0	
97	74.2	59.3	88.9	





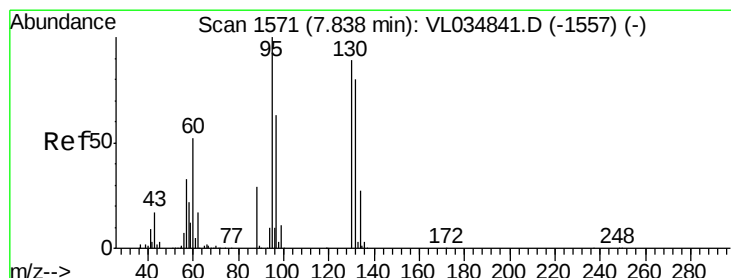
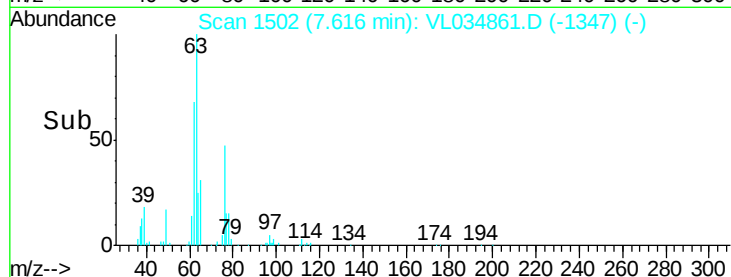
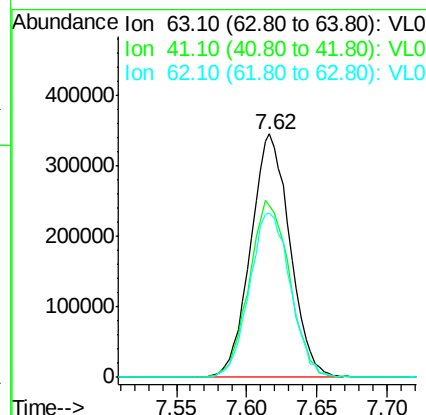
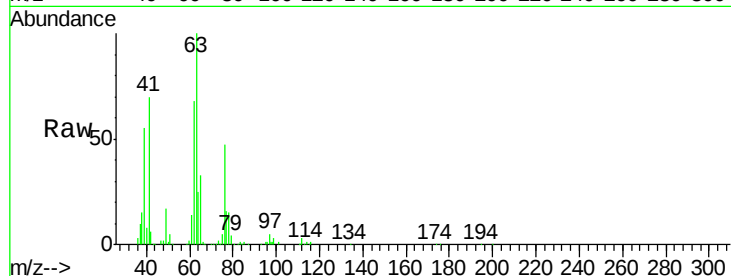
#39
 1,2-Dichloropropane
 Concen: 9.305 ppbv
 RT: 7.62 min Scan# 1502
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	70.4	59.8	89.8
62	67.6	57.6	86.4

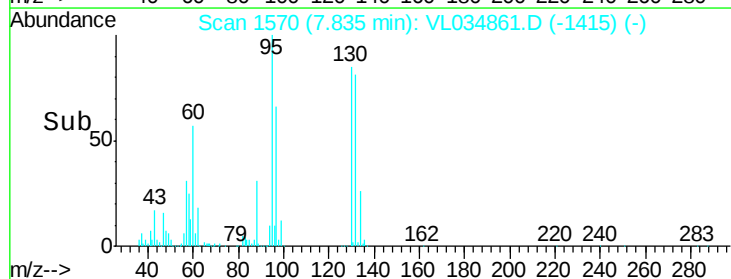
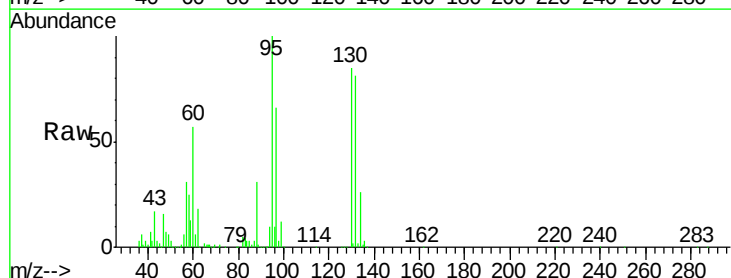
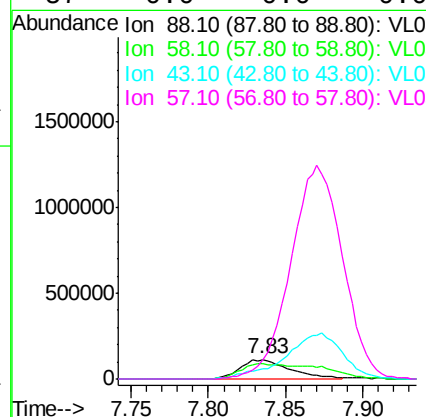
Manual Integrations
 APPROVED

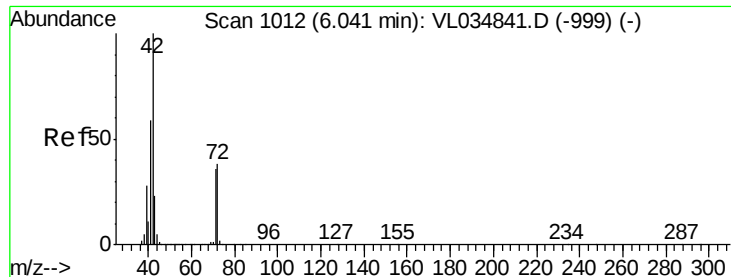
apatel
 3/16/2020 12:25:40 PM



#40
 1,4-Dioxane
 Concen: 9.187 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
88	100		
58	134.3	103.9	155.9
43	0.0	0.0	0.0
57	0.0	0.0	0.0





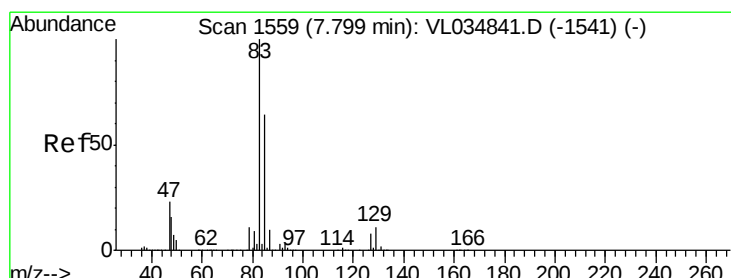
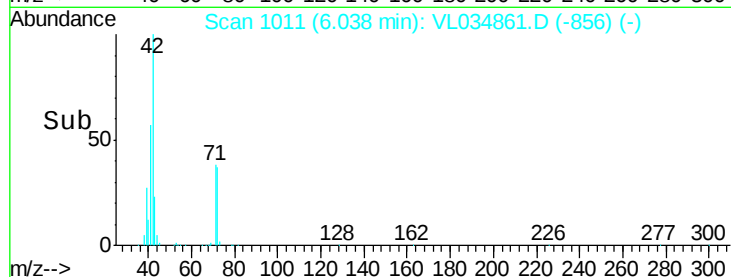
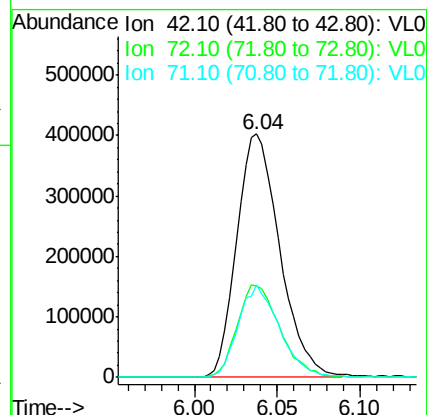
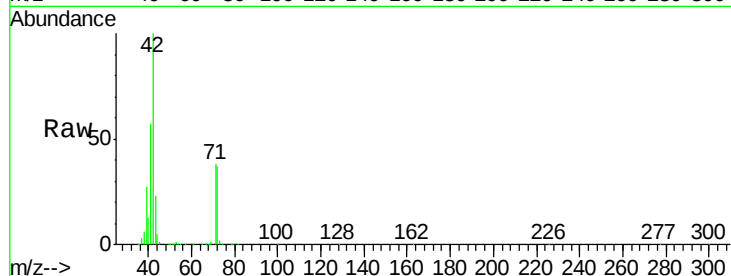
#41
Tetrahydrofuran
Concen: 9.910 ppbv
RT: 6.04 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	30.8	46.2
71	36.7	30.1	45.1

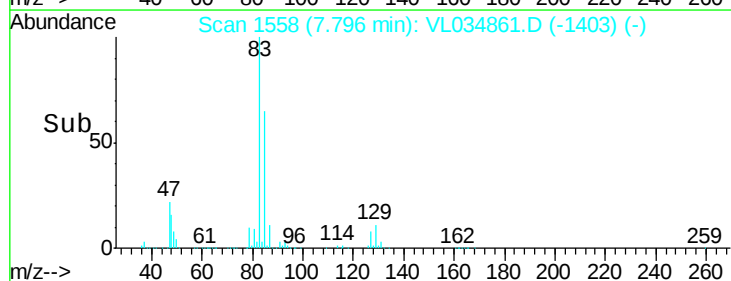
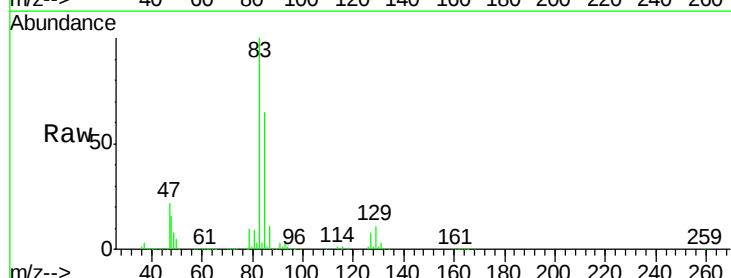
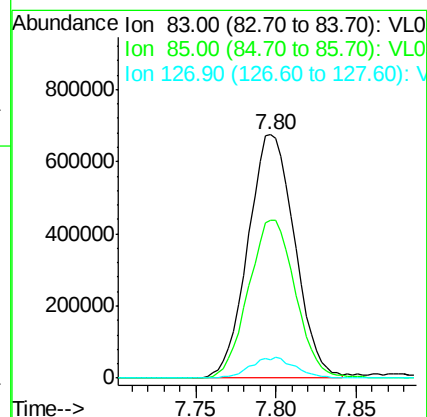
Manual Integrations
APPROVED

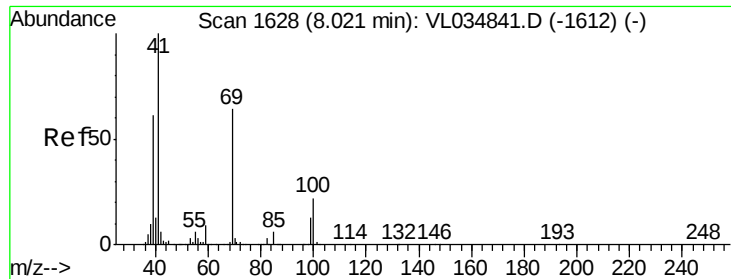
apatel
3/16/2020 12:25:40 PM



#42
Bromodichloromethane
Concen: 9.654 ppbv
RT: 7.80 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.4	77.2
127	7.7	6.2	9.4





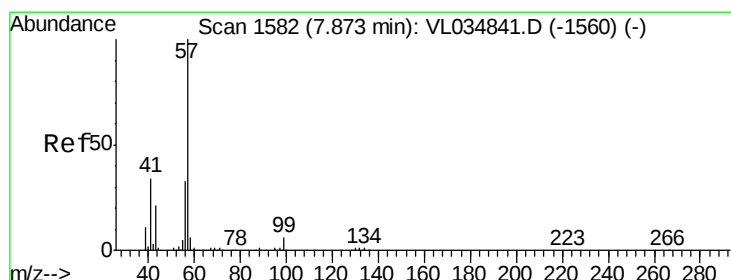
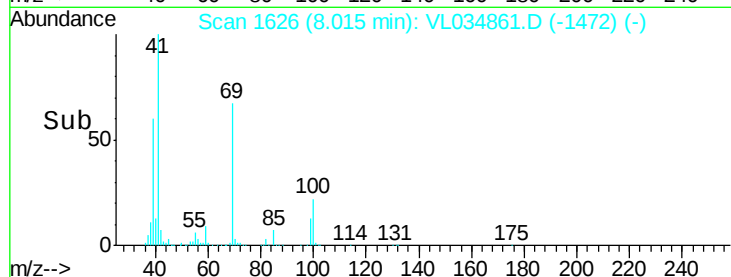
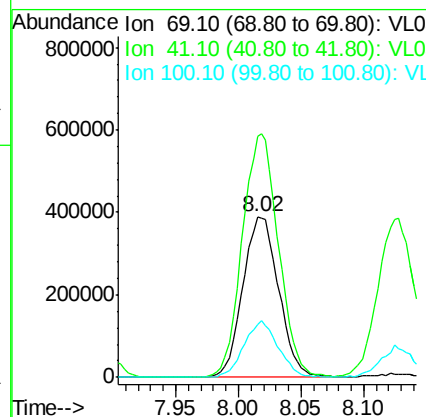
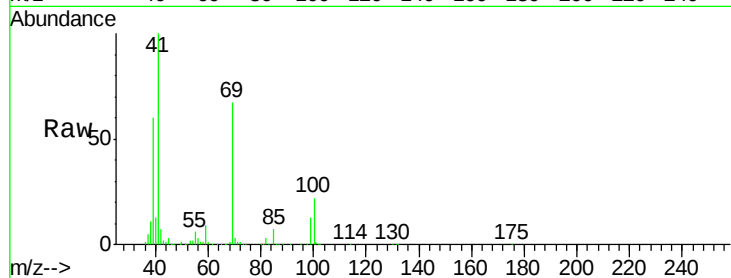
#43
Methvl Methacrvlate
Concen: 10.106 ppbv
RT: 8.02 min Scan# 1626
Delta R.T. -0.01 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	151.9	123.2	184.8
100	33.4	26.9	40.3

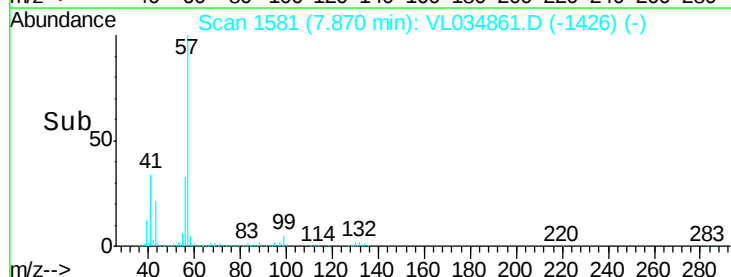
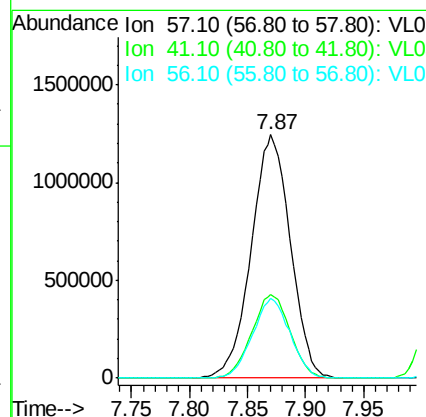
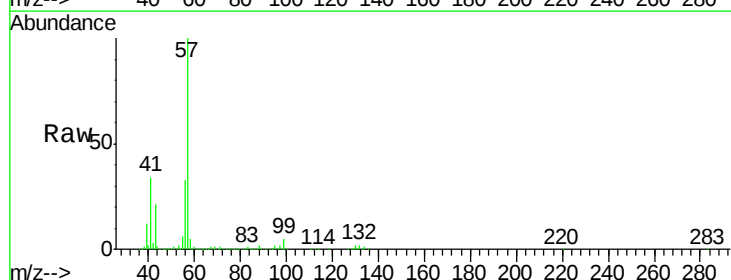
Manual Integrations
APPROVED

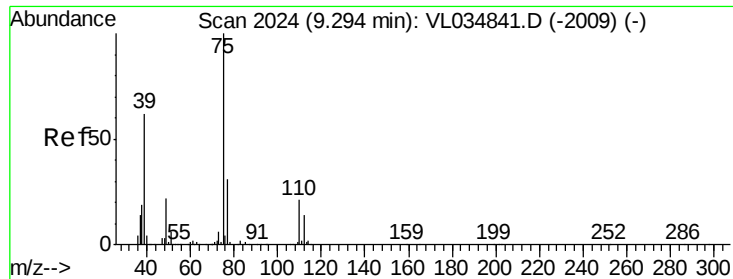
apatel
3/16/2020 12:25:40 PM



#44
2,2,4-Trimethylpentane
Concen: 9.482 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.9	26.2	39.4
56	31.6	25.0	37.4





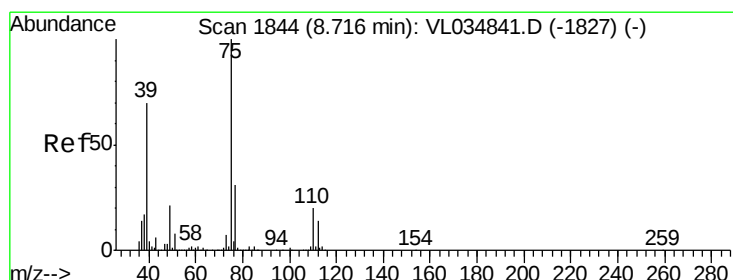
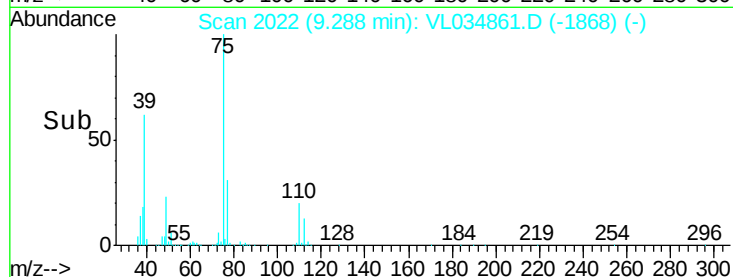
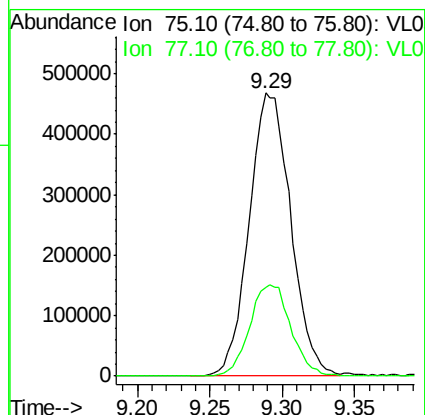
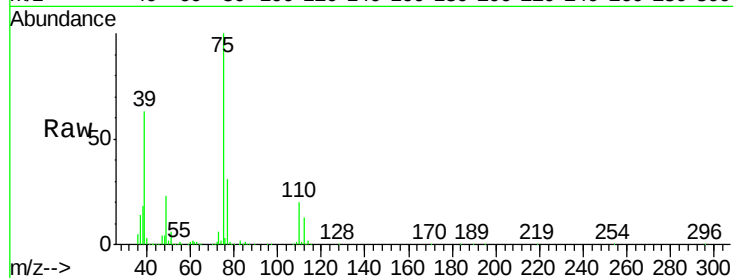
#45
t-1,3-Dichloropropene
Concen: 10.387 ppbv
RT: 9.29 min Scan# 2022
Delta R.T. -0.01 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 935678
Ion Ratio Lower Upper
75 100
77 31.4 24.6 37.0

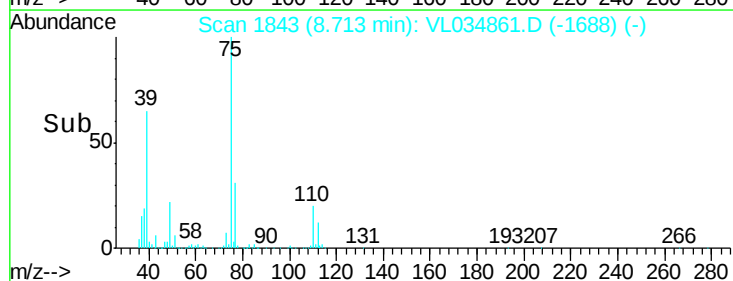
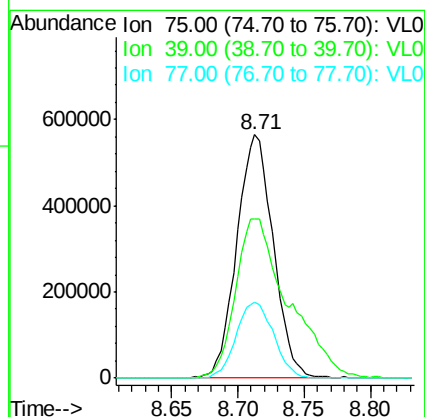
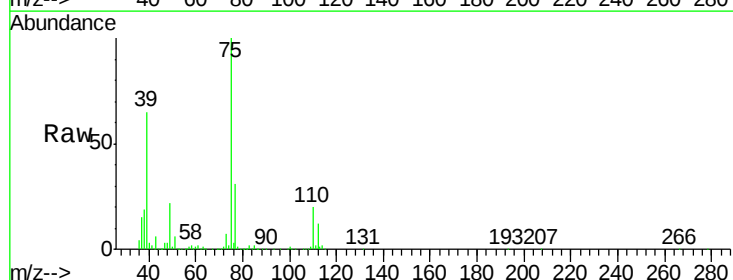
Manual Integrations
APPROVED

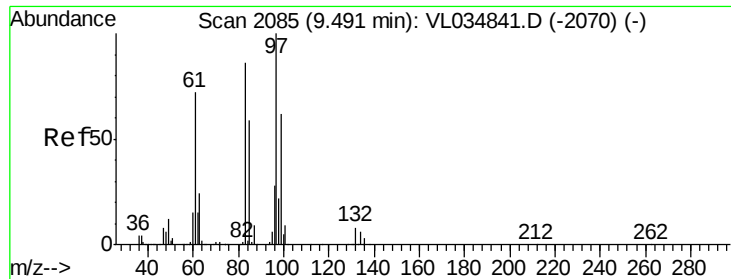
apatel
3/16/2020 12:25:40 PM



#46
cis-1,3-Dichloropropene
Concen: 10.099 ppbv
RT: 8.71 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion: 75 Resp: 1081112
Ion Ratio Lower Upper
75 100
39 65.4 55.7 83.5
77 31.2 24.7 37.1





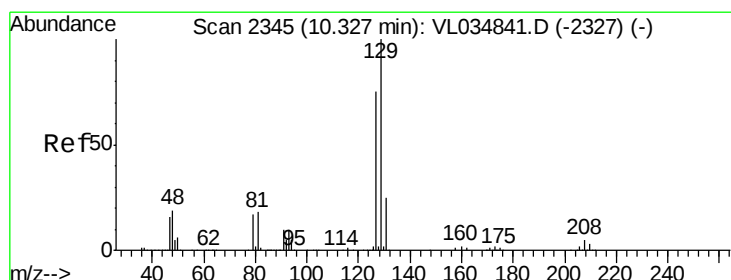
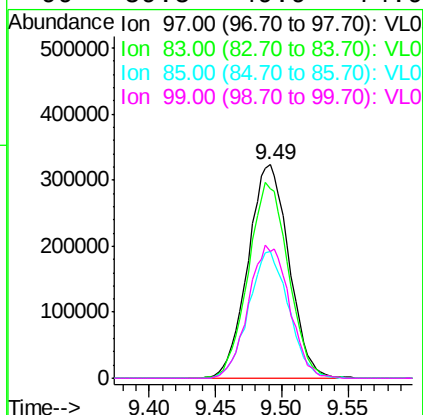
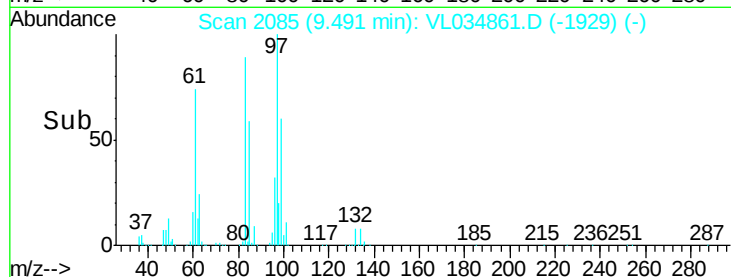
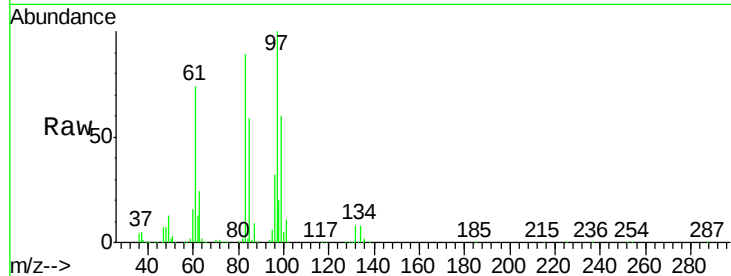
#47
 1,1,2-Trichloroethane
 Concen: 9.391 ppbv
 RT: 9.49 min Scan# 2085
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	97	Resp:	694924
Ion	Ratio	Lower	Upper
97	100		
83	88.5	68.6	102.8
85	59.1	46.9	70.3
99	59.5	49.9	74.9

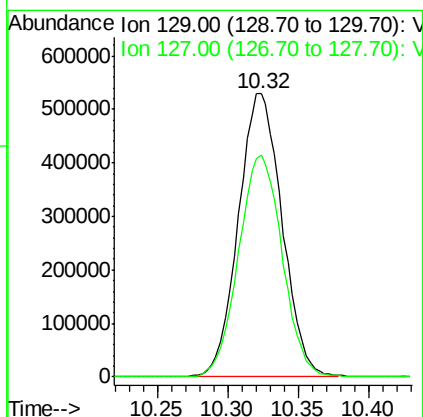
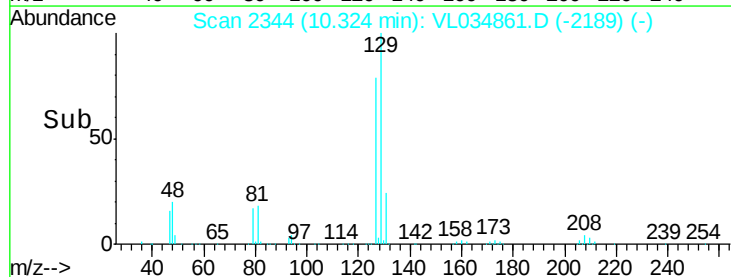
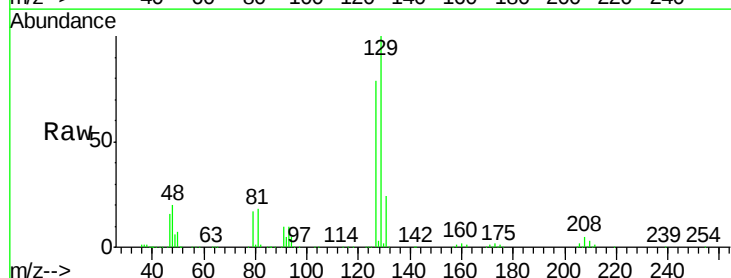
Manual Integrations
 APPROVED

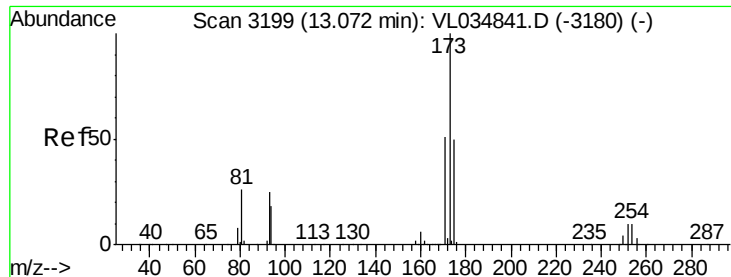
apatel
 3/16/2020 12:25:40 PM



#48
 Dibromochloromethane
 Concen: 9.569 ppbv
 RT: 10.32 min Scan# 2344
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion:	129	Resp:	1146786
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.6	118.7





#49

Bromoform

Concen: 9.459 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1010724

Ion Ratio Lower Upper

173 100

175 49.3 39.6 59.4

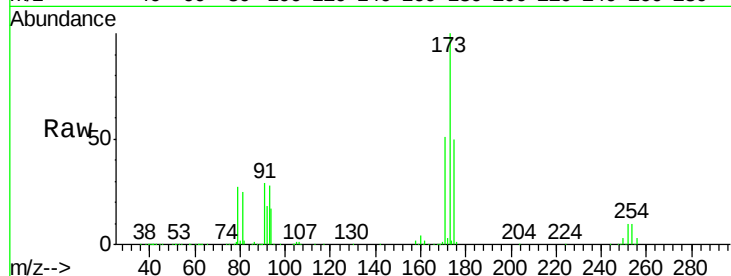
171 52.0 41.0 61.6

Manual Integrations

APPROVED

apatel

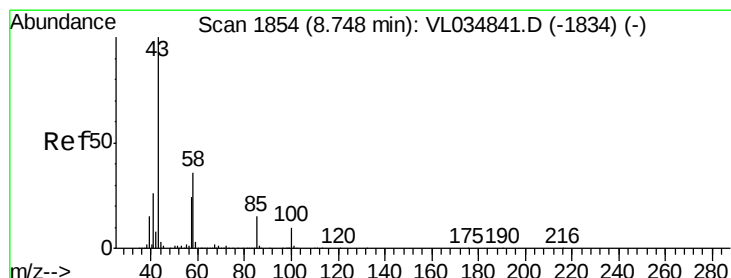
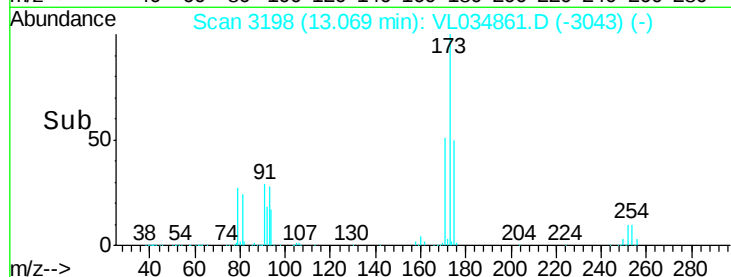
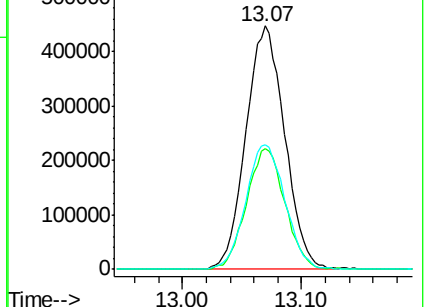
3/16/2020 12:25:40 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.680 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VL034861.D

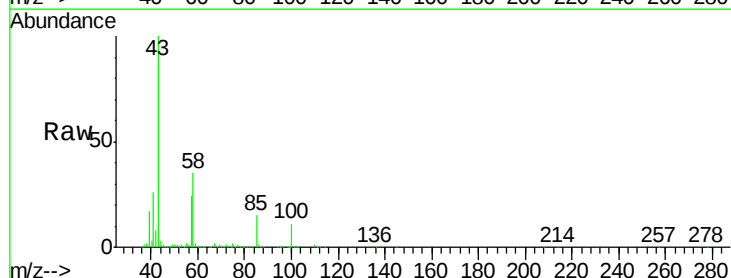
Acq: 10 Mar 2020 8:58

Tgt Ion: 43 Resp: 1890878

Ion Ratio Lower Upper

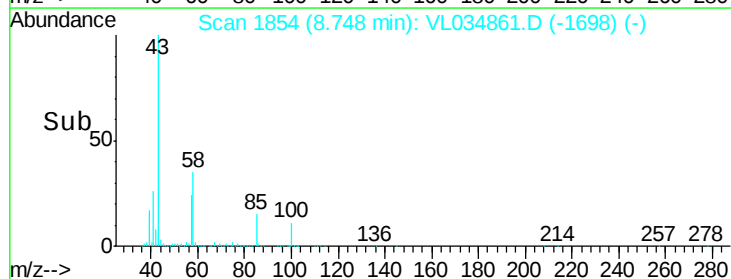
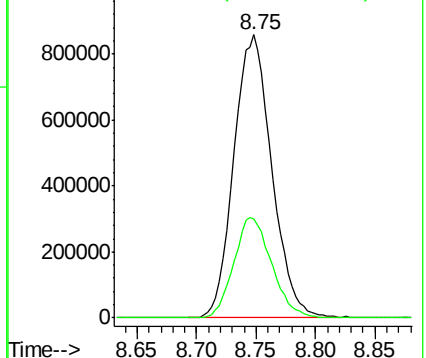
43 100

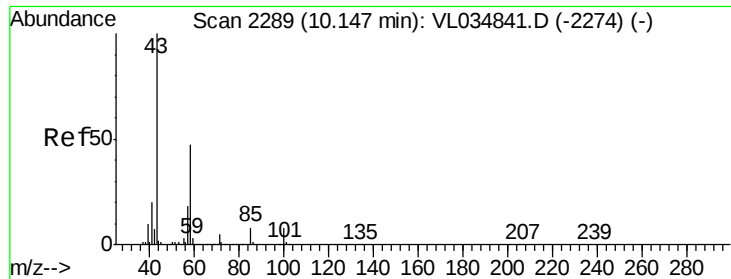
58 35.6 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.776 ppbv

RT: 10.14 min Scan# 2288

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1551882

Ion Ratio Lower Upper

43 100

58 47.9 38.6 58.0

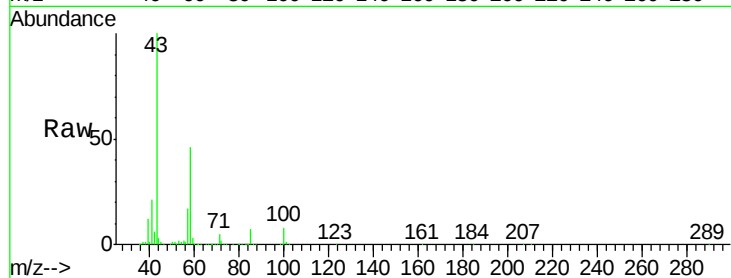
98 0.2 0.1 0.1#

Manual Integrations

APPROVED

apatel

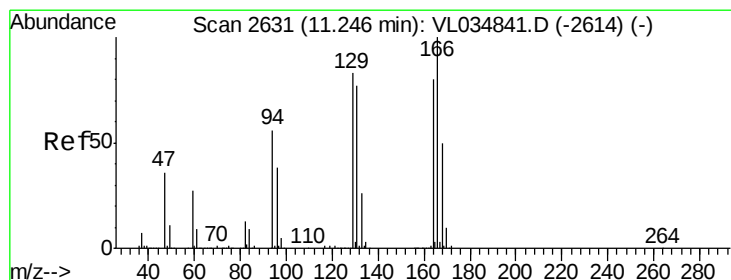
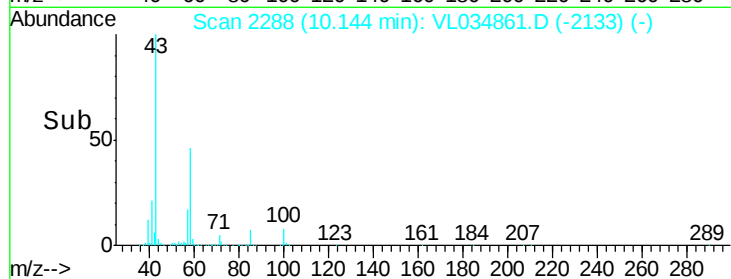
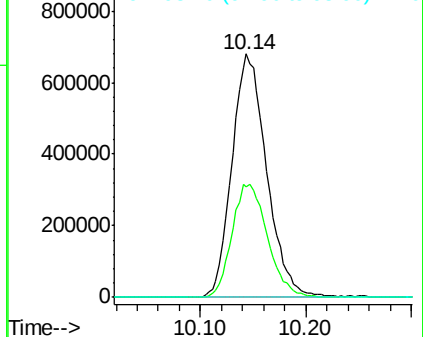
3/16/2020 12:25:40 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 8.531 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Tgt Ion: 164 Resp: 614263

Ion Ratio Lower Upper

164 100

166 128.2 100.0 150.0

129 107.6 83.1 124.7

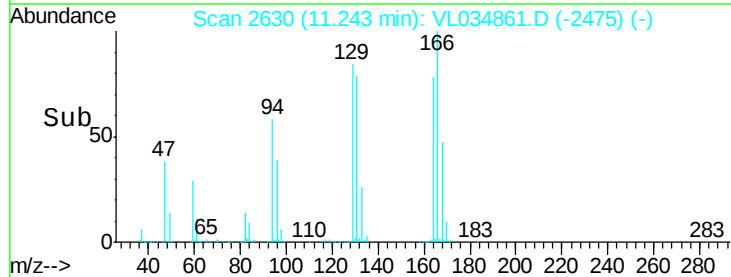
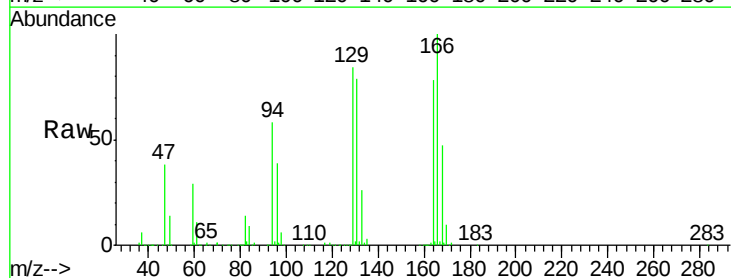
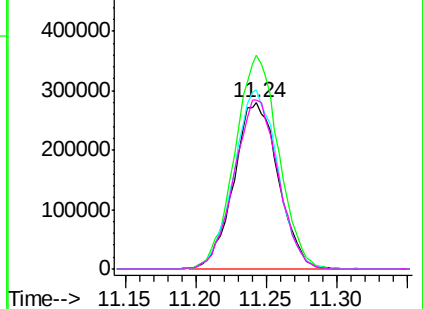
131 101.7 77.2 115.8

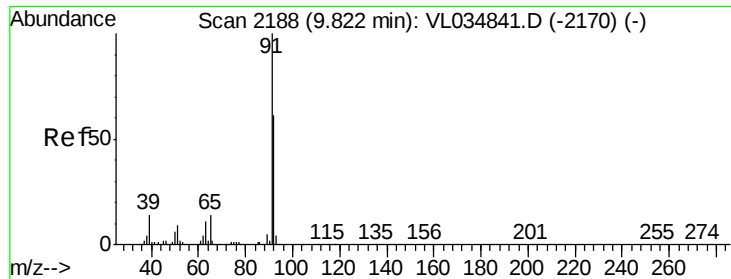
Abundance Ion 163.90 (163.60 to 164.60): V

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: 9.478 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 1992001

Ion Ratio Lower Upper

91 100

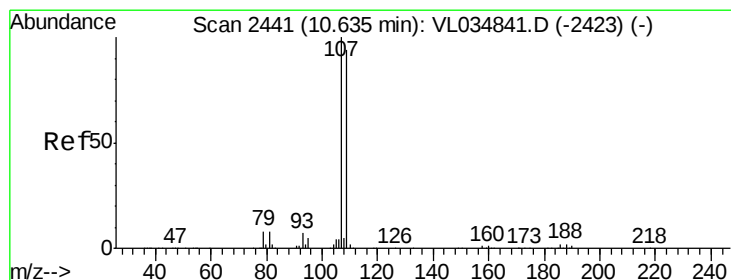
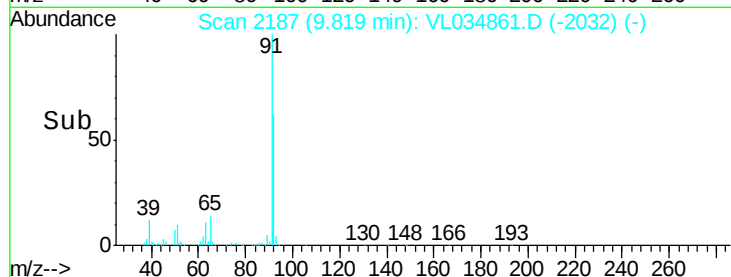
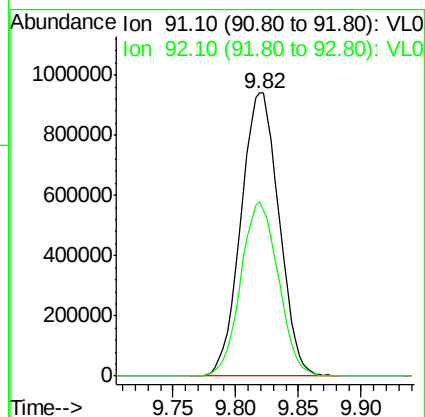
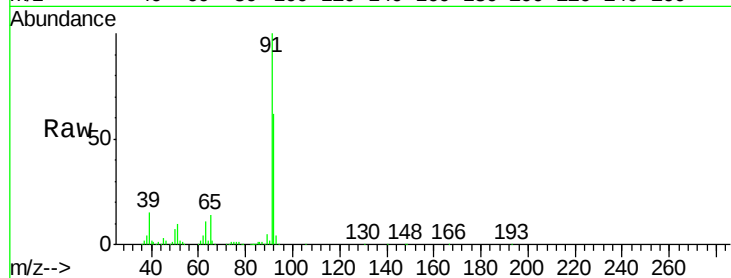
92 60.6 48.6 72.8

Manual Integrations

APPROVED

apatel

3/16/2020 12:25:40 PM



#54

1,2-Dibromoethane

Concen: 9.390 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.00 min

Lab File: VL034861.D

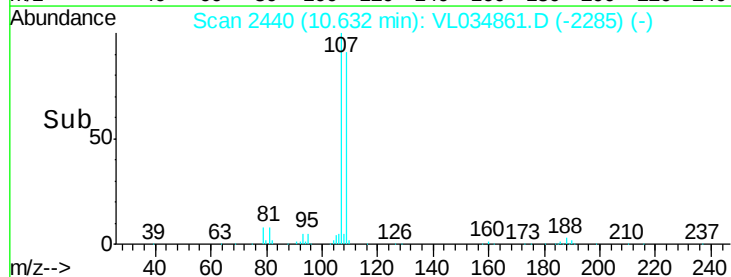
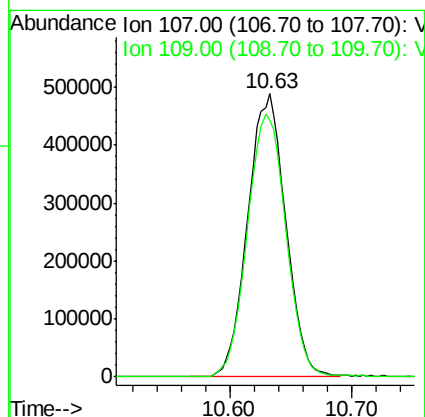
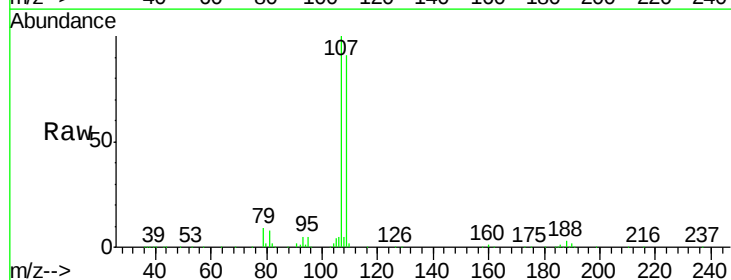
Acq: 10 Mar 2020 8:58

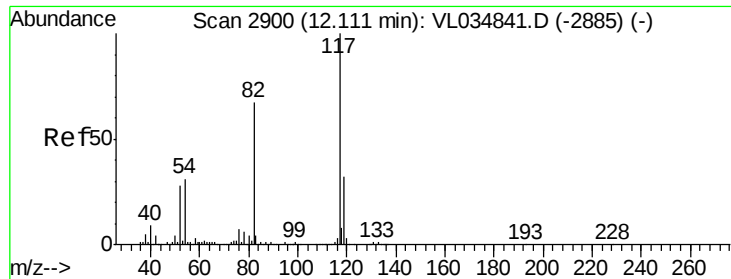
Tgt Ion: 107 Resp: 1046037

Ion Ratio Lower Upper

107 100

109 90.7 74.9 112.3





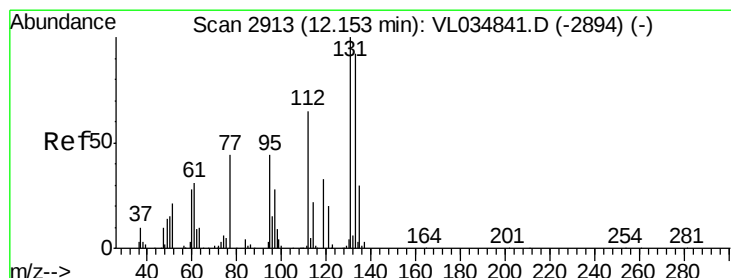
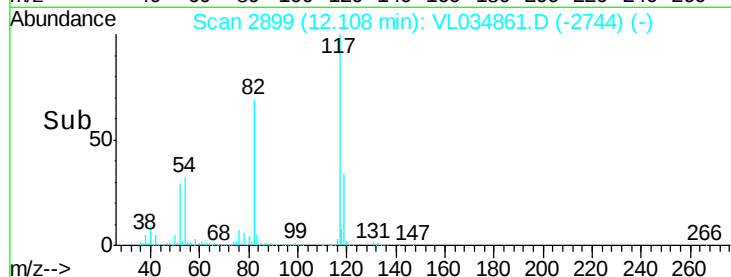
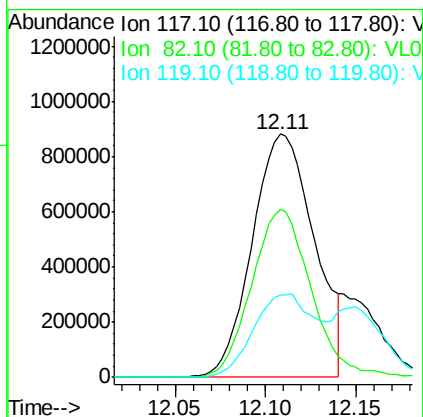
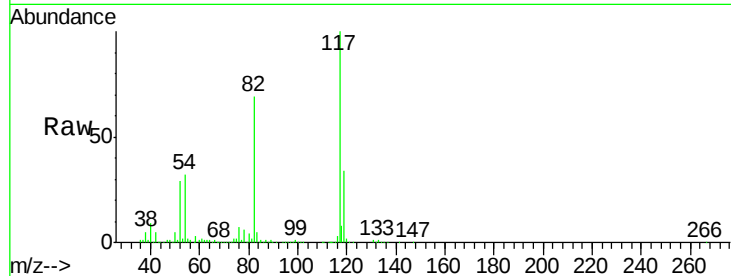
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2109475
Ion Ratio Lower Upper
117 100
82 66.4 51.1 76.7
119 34.2 27.3 40.9

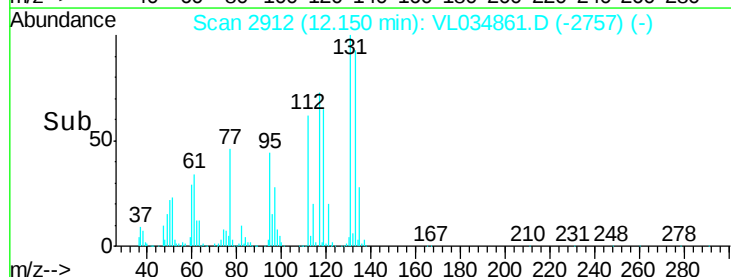
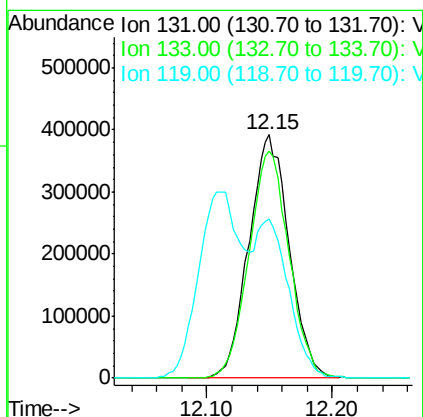
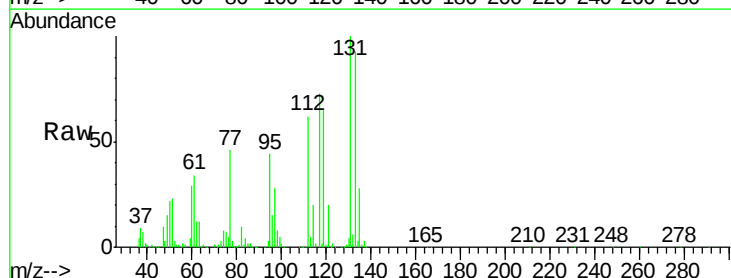
Manual Integrations
APPROVED

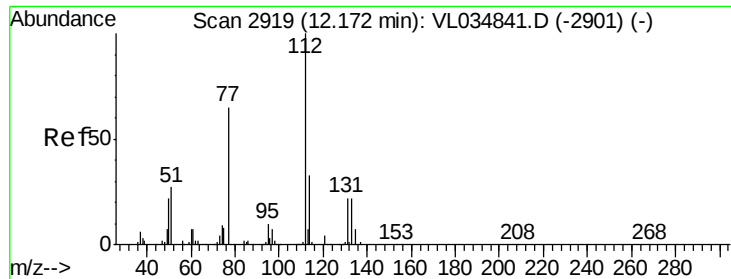
apatel
3/16/2020 12:25:40 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.220 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion:131 Resp: 873628
Ion Ratio Lower Upper
131 100
133 93.3 76.0 114.0
119 55.9 47.8 71.8





#57

Chlorobenzene

Concen: 8.890 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1467300

Ion Ratio Lower Upper

112 100

77 68.3 53.0 79.6

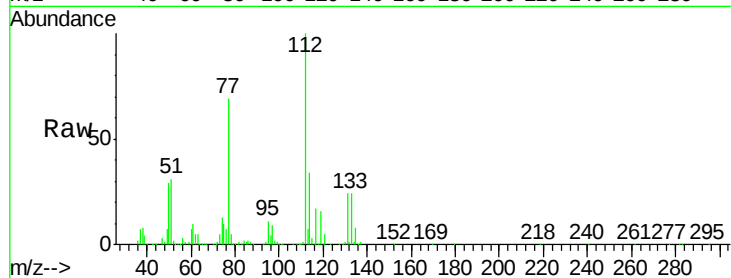
114 34.4 29.5 36.1

Manual Integrations

APPROVED

apatel

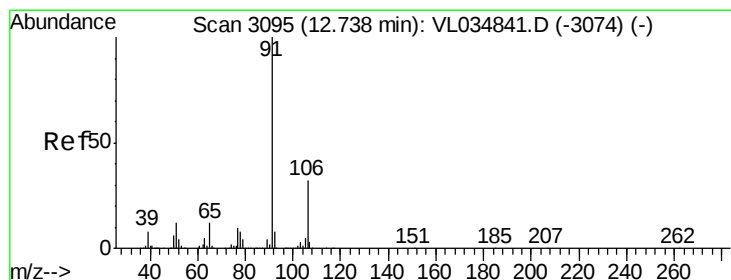
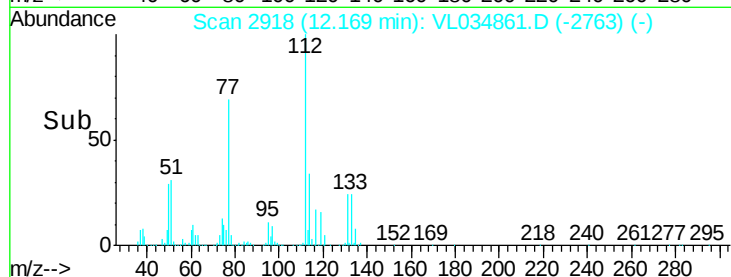
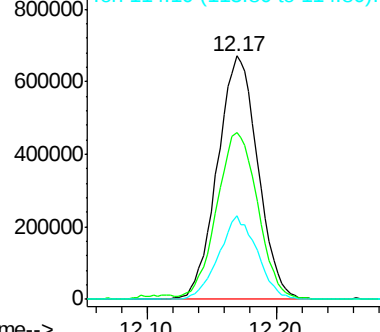
3/16/2020 12:25:40 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.151 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL034861.D

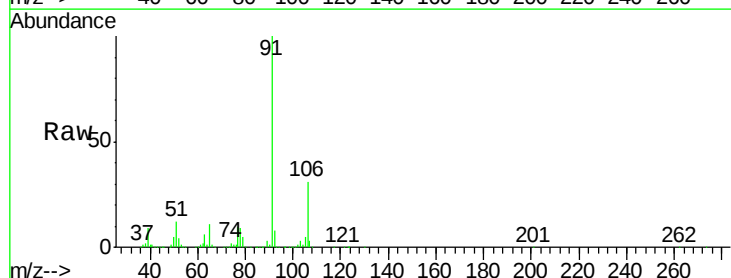
Acq: 10 Mar 2020 8:58

Tgt Ion: 91 Resp: 2614087

Ion Ratio Lower Upper

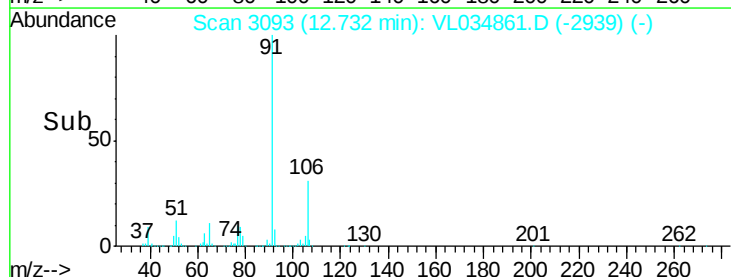
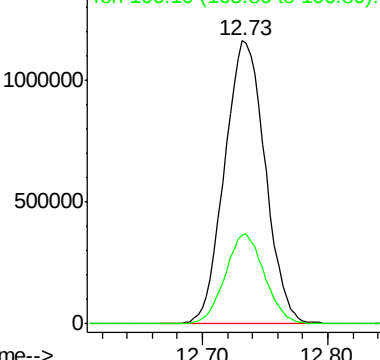
91 100

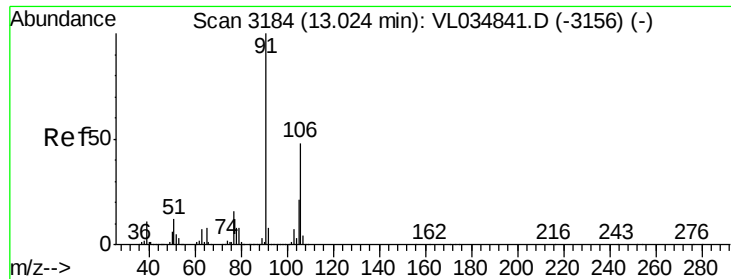
106 31.2 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





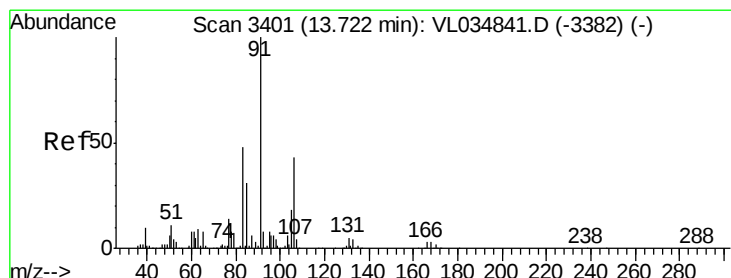
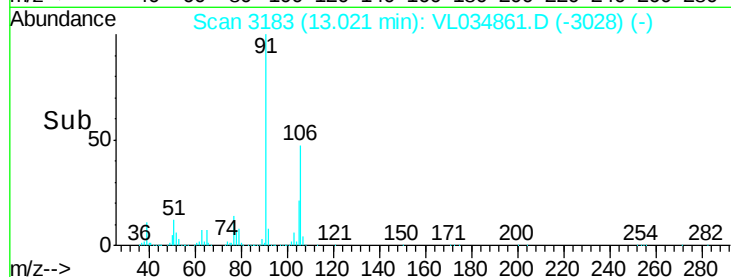
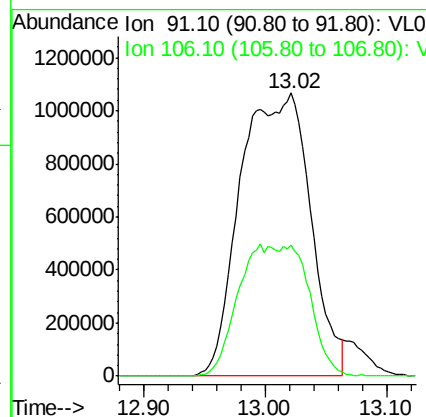
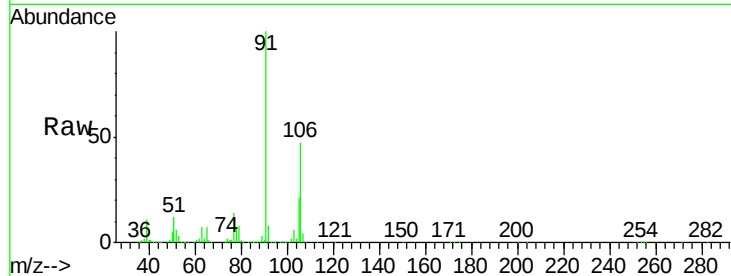
#59
m/p-Xylene
Concen: 17.774 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4253778
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#

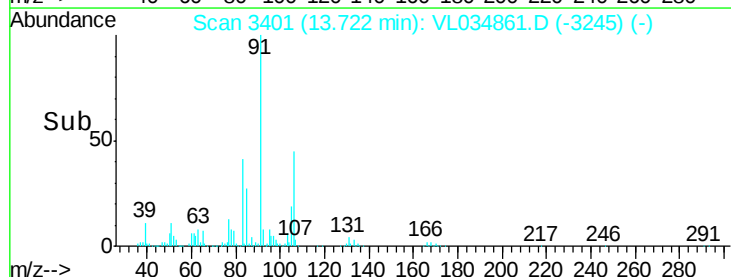
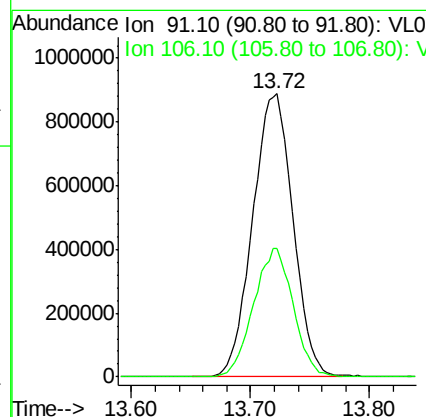
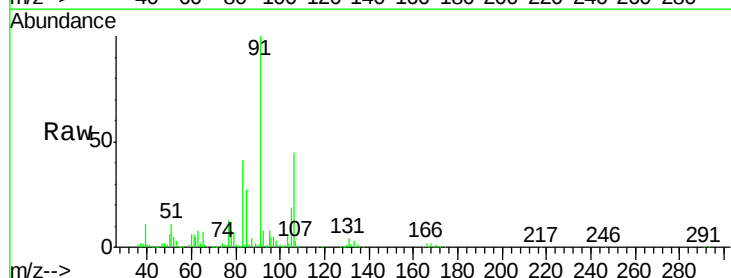
Manual Integrations
APPROVED

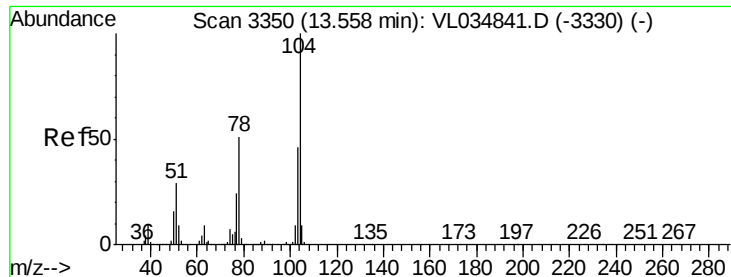
apatel
3/16/2020 12:25:40 PM



#60
o-Xylene
Concen: 8.923 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion: 91 Resp: 2085083
Ion Ratio Lower Upper
91 100
106 44.5 22.5 67.5





#61

Stvrene

Concen: 9.575 ppbv

RT: 13.55 min Scan# 3349

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1570247

Ion Ratio Lower Upper

104 100

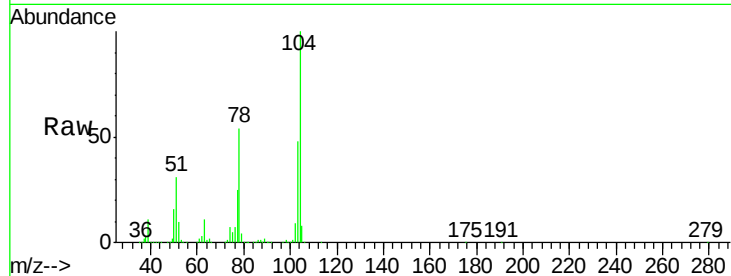
78 52.5 41.8 62.6

103 48.0 37.8 56.6

Manual Integrations
APPROVED

apatel

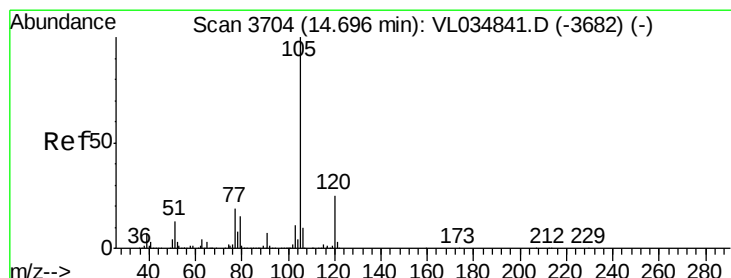
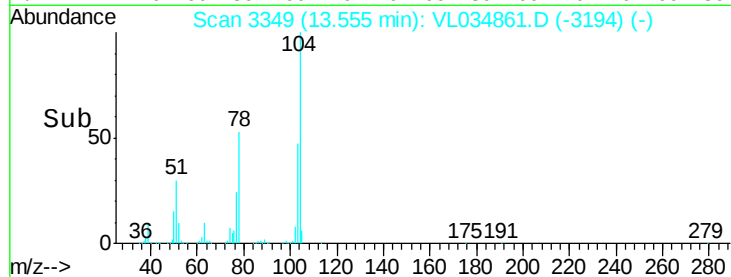
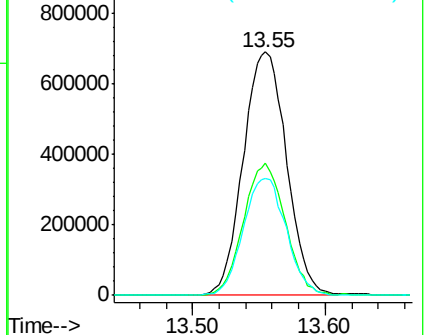
3/16/2020 12:25:40 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.840 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. 0.00 min

Lab File: VL034861.D

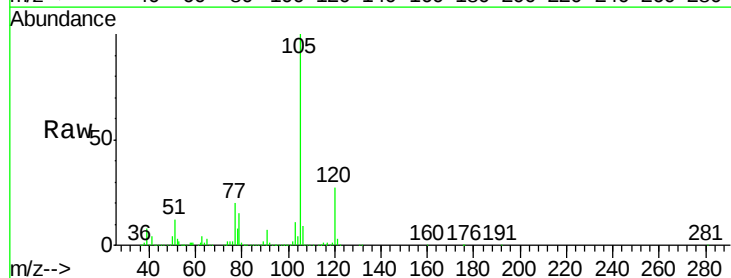
Acq: 10 Mar 2020 8:58

Tgt Ion:105 Resp: 3123419

Ion Ratio Lower Upper

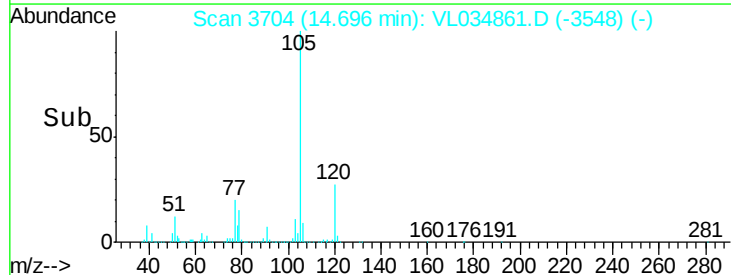
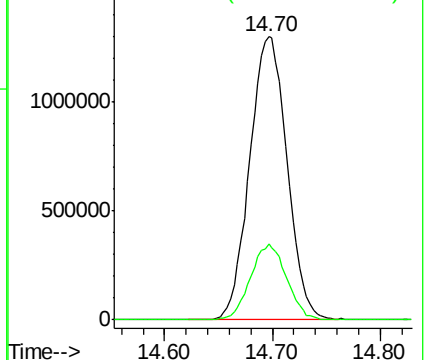
105 100

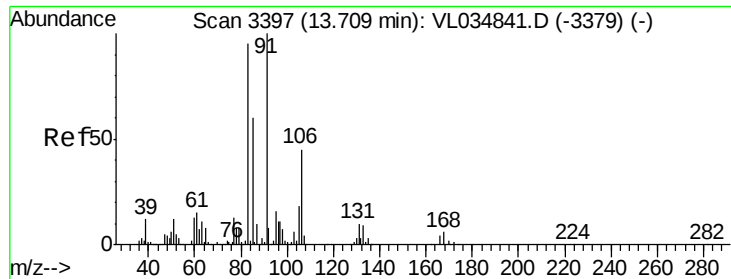
120 25.8 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





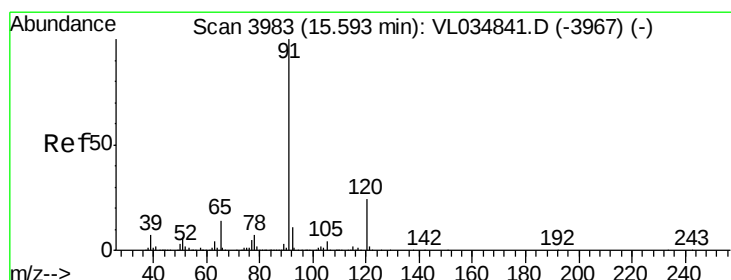
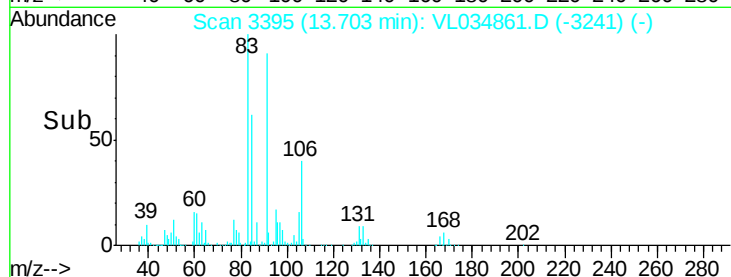
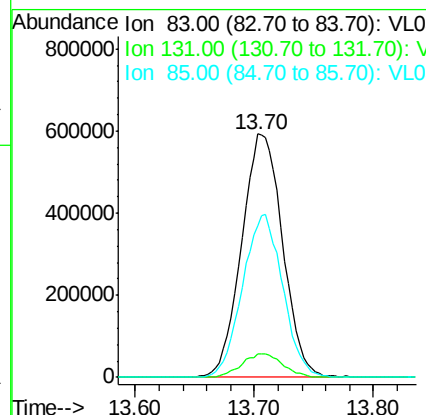
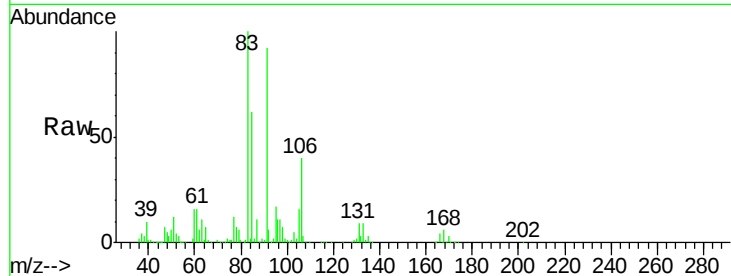
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.897 ppbv
 RT: 13.70 min Scan# 3395
 Delta R.T. -0.01 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	65.8	32.4	97.2

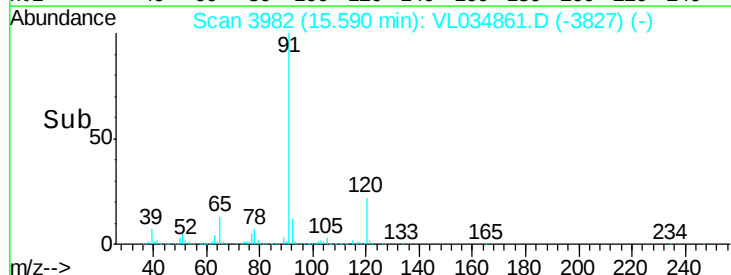
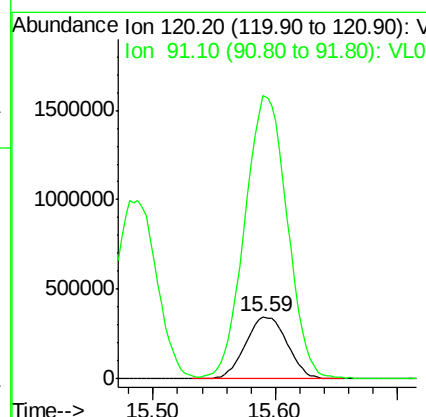
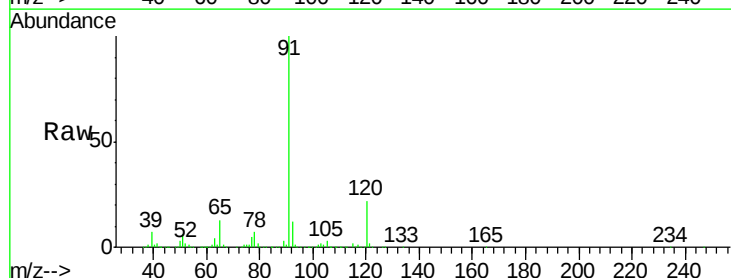
Manual Integrations
 APPROVED

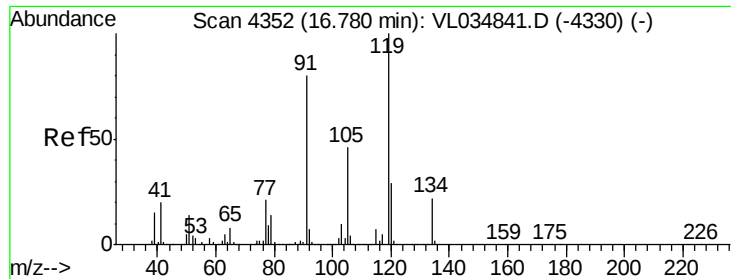
apatel
 3/16/2020 12:25:40 PM



#64
 n-propylbenzene
 Concen: 8.960 ppbv
 RT: 15.59 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
120	100		
91	461.8	360.9	541.3





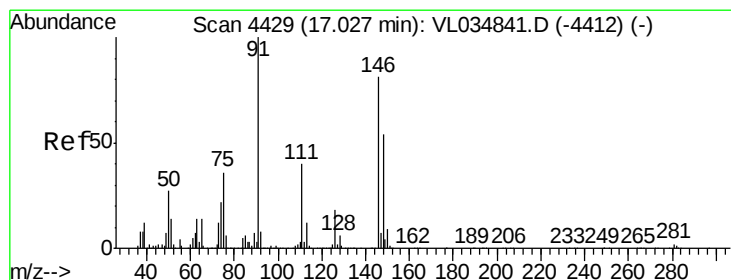
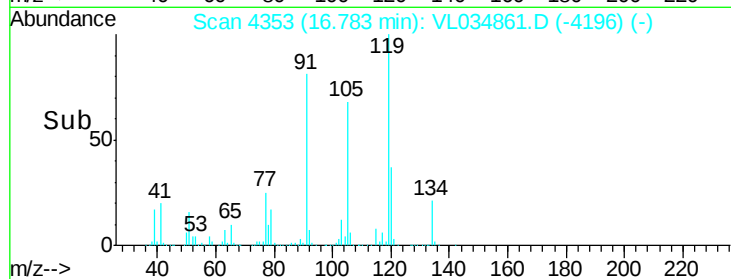
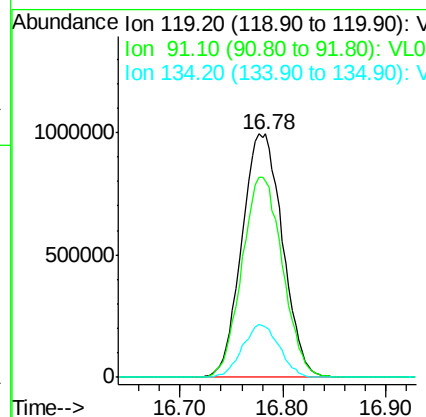
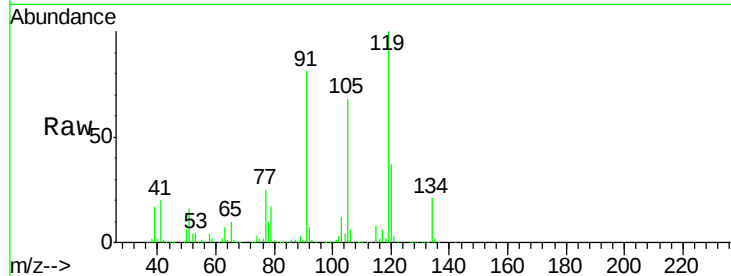
#65
 tert-Butylbenzene
 Concen: 8.826 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	82.0	64.9	97.3
134	19.8	15.9	23.9

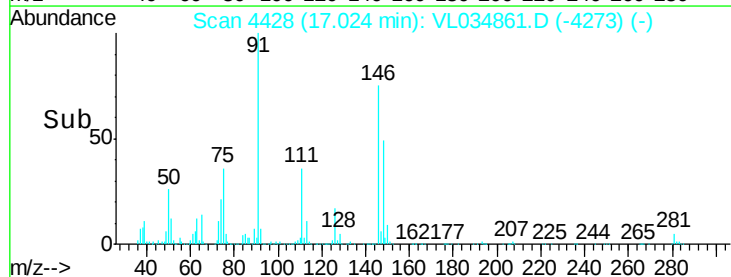
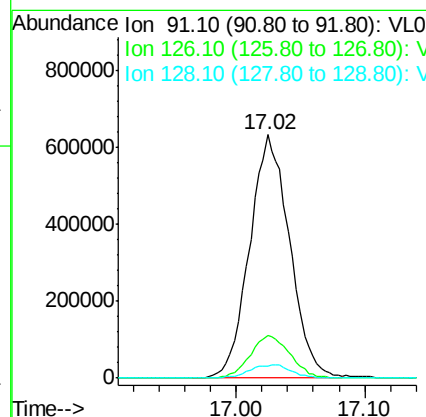
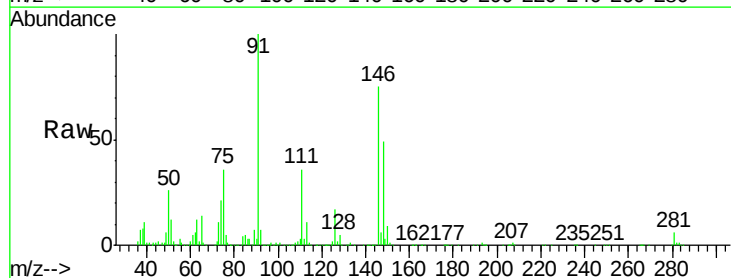
Manual Integrations
 APPROVED

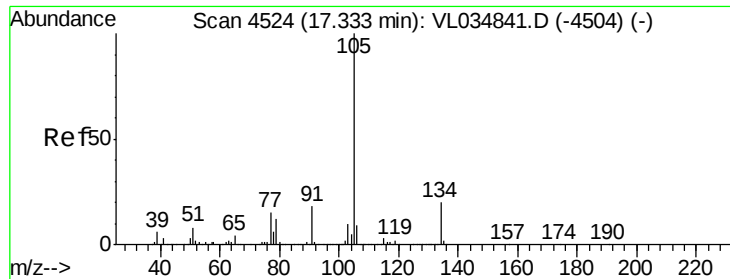
apatel
 3/16/2020 12:25:40 PM



#66
 Benzyl Chloride
 Concen: 10.621 ppbv
 RT: 17.02 min Scan# 4428
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.6	14.7	22.1
128	5.8	4.7	7.1





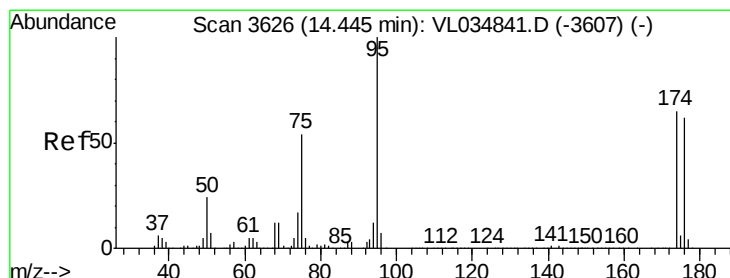
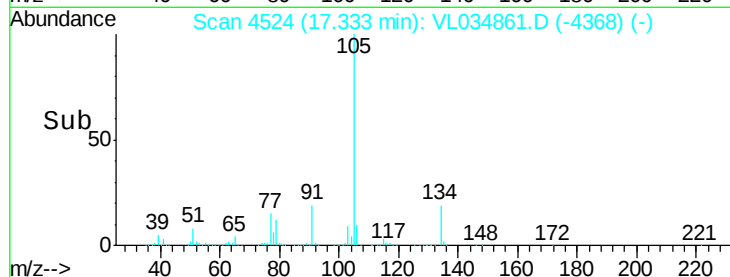
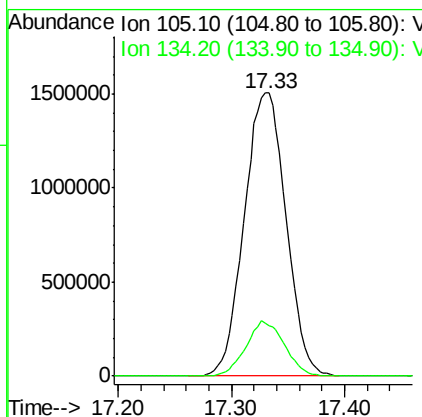
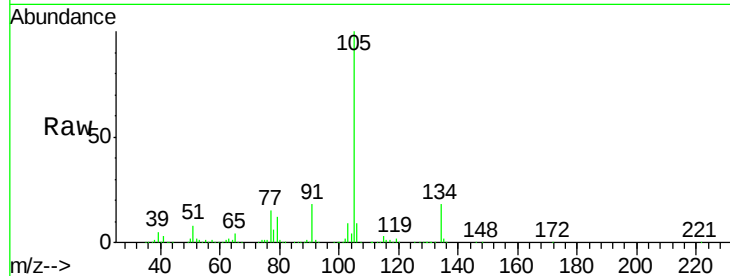
#67
 sec-Butylbenzene
 Concen: 8.999 ppbv
 RT: 17.33 min Scan# 4524
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 3854122
 Ion Ratio Lower Upper
 105 100
 134 18.1 15.0 22.6

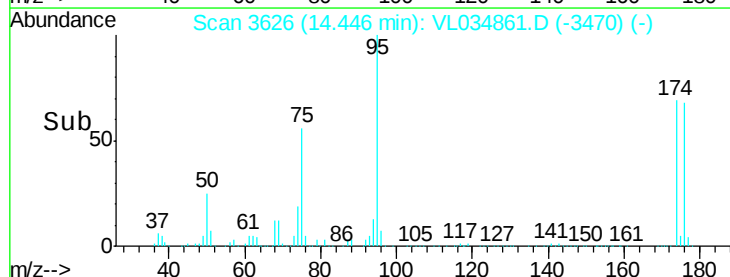
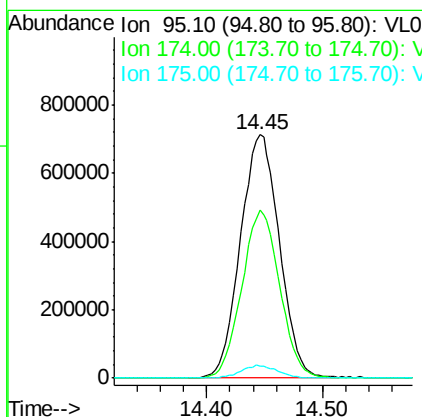
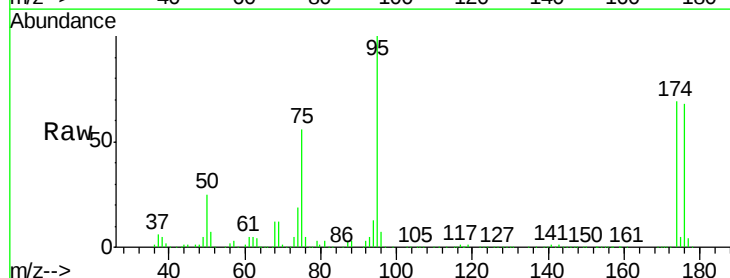
Manual Integrations
 APPROVED

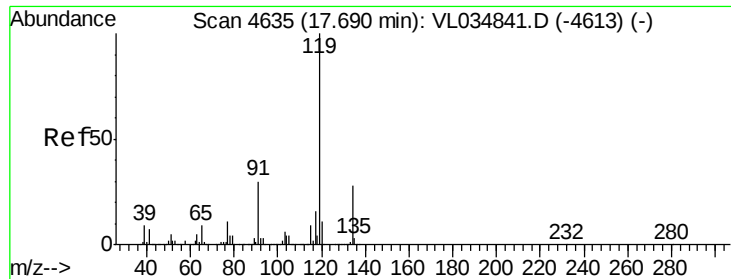
apatel
 3/16/2020 12:25:40 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.118 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion: 95 Resp: 1664610
 Ion Ratio Lower Upper
 95 100
 174 67.1 55.2 82.8
 175 5.1 4.3 6.5





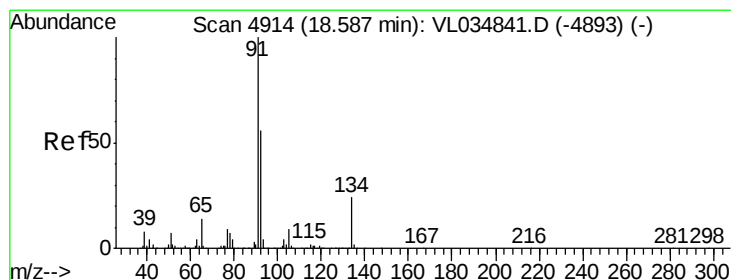
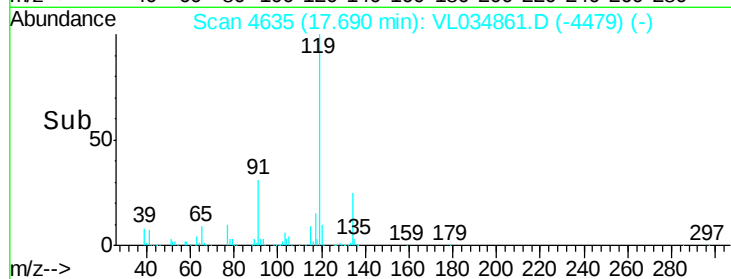
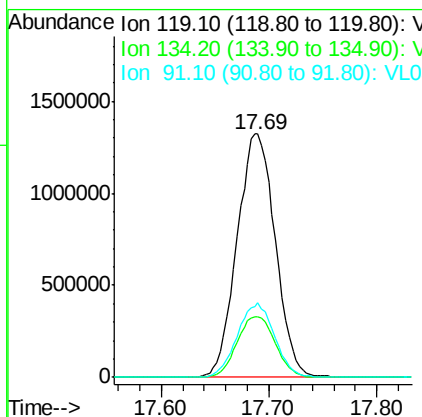
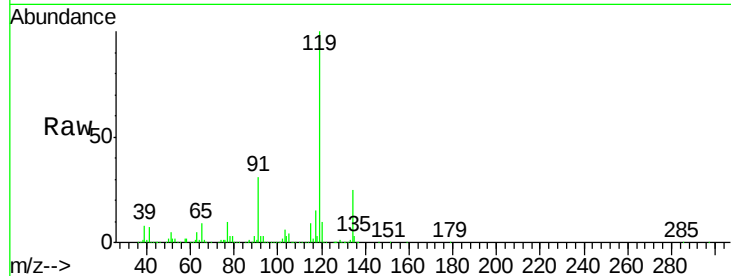
#69
 p-Isopropyltoluene
 Concen: 9.030 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.6	30.8
91	29.9	23.4	35.2

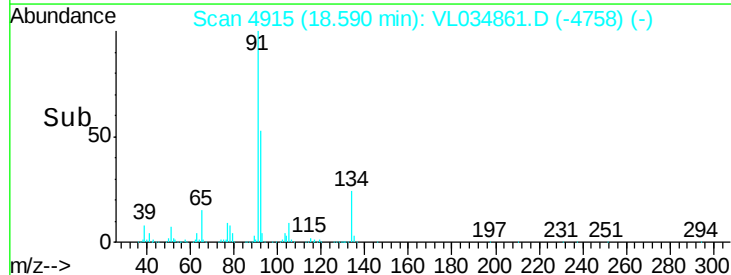
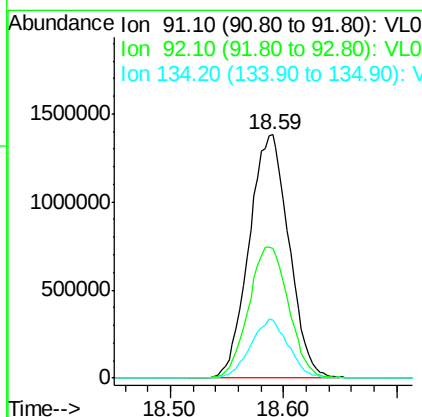
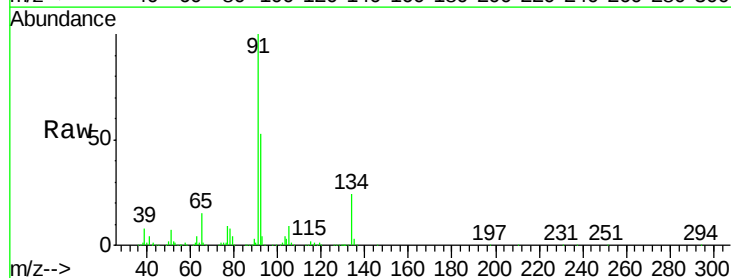
Manual Integrations
 APPROVED

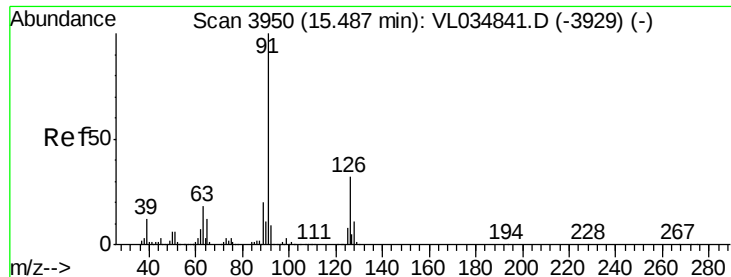
apatel
 3/16/2020 12:25:40 PM



#70
 n-Butylbenzene
 Concen: 9.221 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.8	65.6
134	22.9	19.0	28.4





#71

2-Chlorotoluene

Concen: 8.916 ppbv

RT: 15.49 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2385734

Ion Ratio Lower Upper

91 100

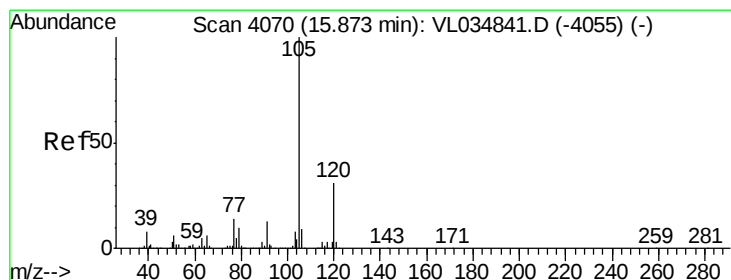
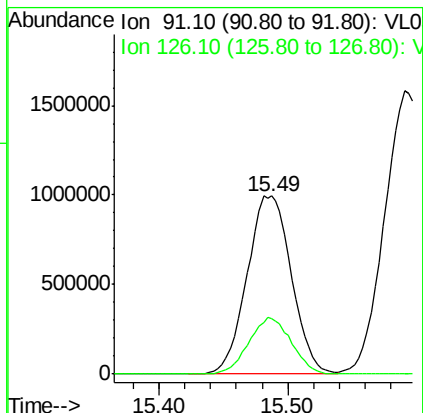
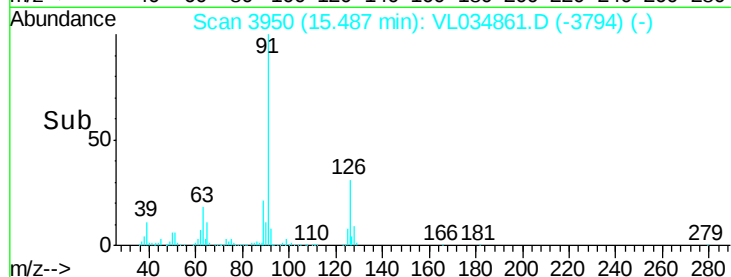
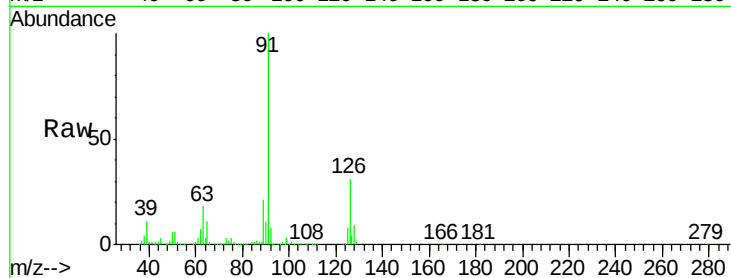
126 30.4 12.3 49.1

Manual Integrations

APPROVED

apatel

3/16/2020 12:25:40 PM



#72

4-Ethyltoluene

Concen: 9.116 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. 0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Tgt Ion: 105 Resp: 2515687

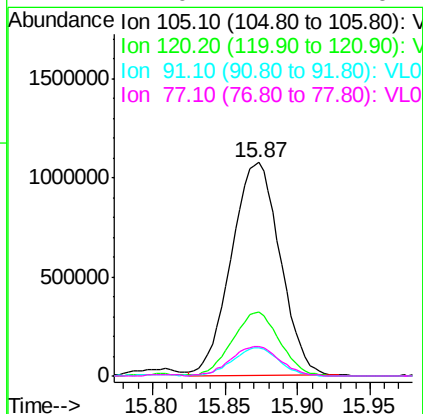
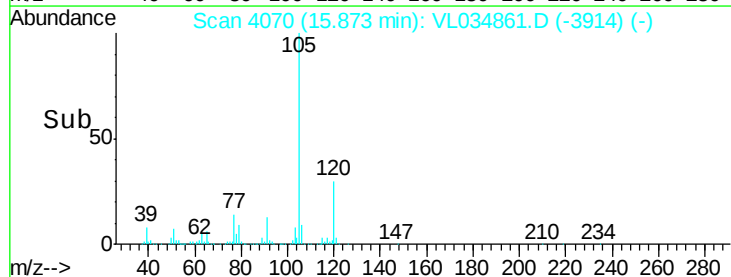
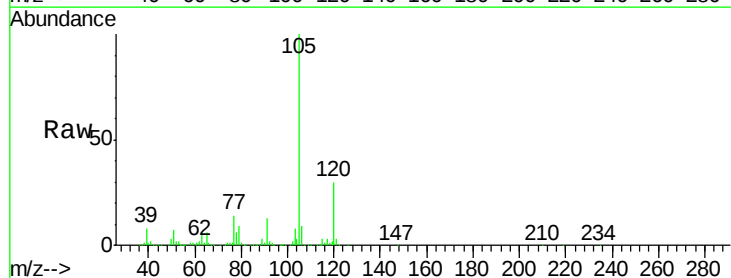
Ion Ratio Lower Upper

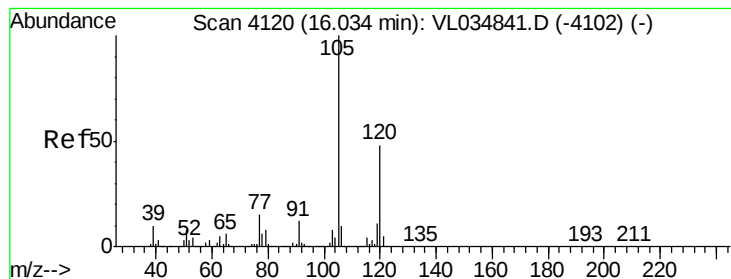
105 100

120 29.1 23.7 35.5

91 13.0 10.5 15.7

77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.147 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2363122

Ion Ratio Lower Upper

105 100

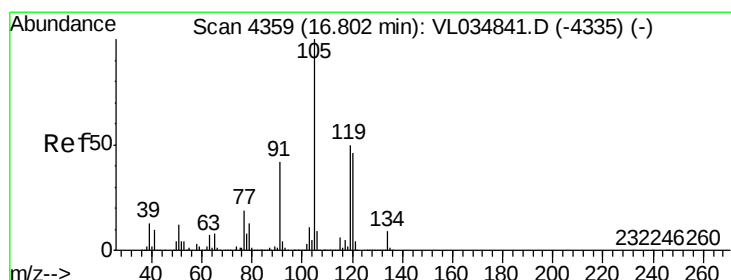
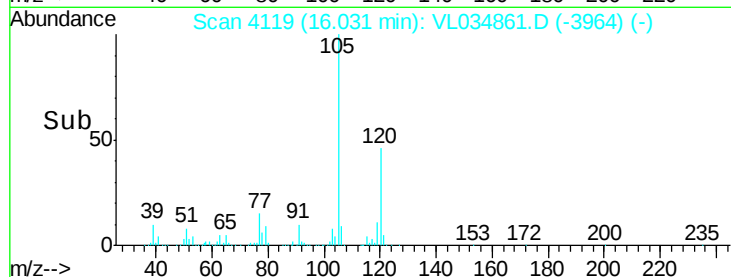
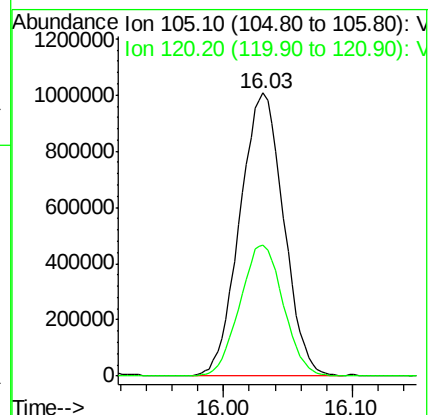
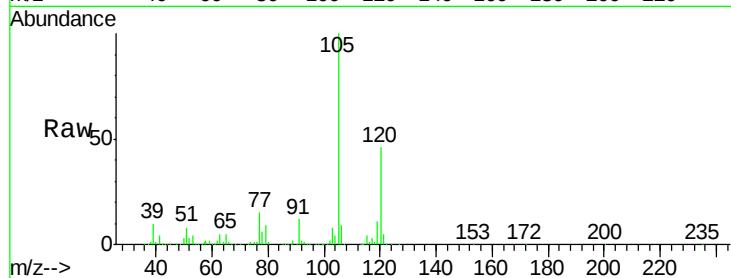
120 46.2 38.6 58.0

Manual Integrations

APPROVED

apatel

3/16/2020 12:25:40 PM



#74

1,2,4-Trimethylbenzene

Concen: 9.157 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL034861.D

Acq: 10 Mar 2020 8:58

Tgt Ion:105 Resp: 2437026

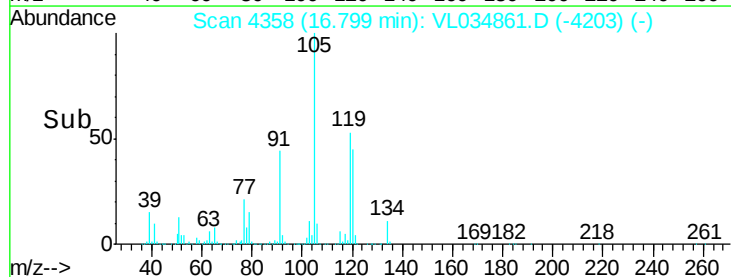
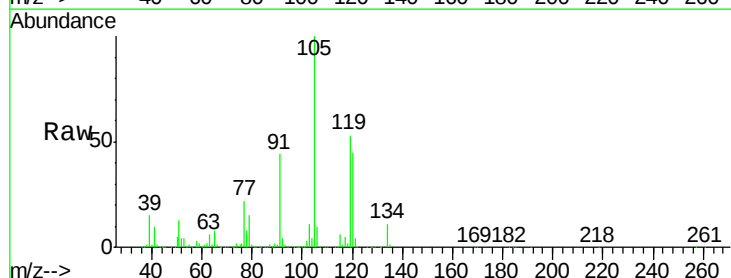
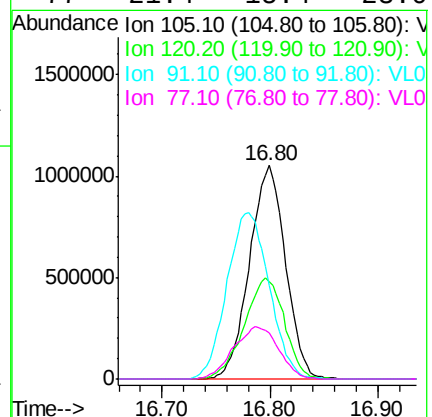
Ion Ratio Lower Upper

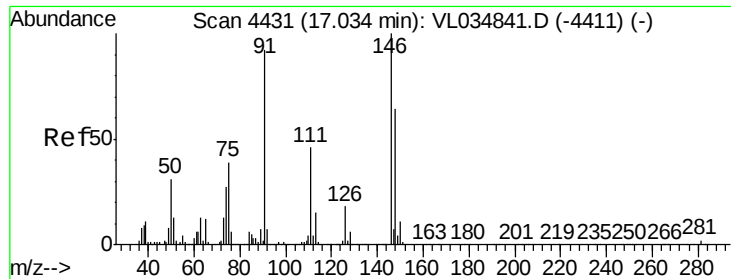
105 100

120 45.2 37.0 55.4

91 43.8 33.8 50.6

77 21.4 15.4 23.0





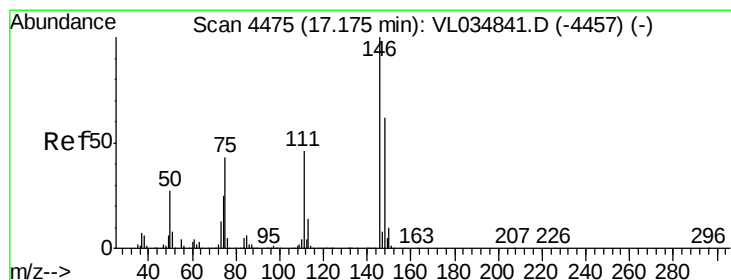
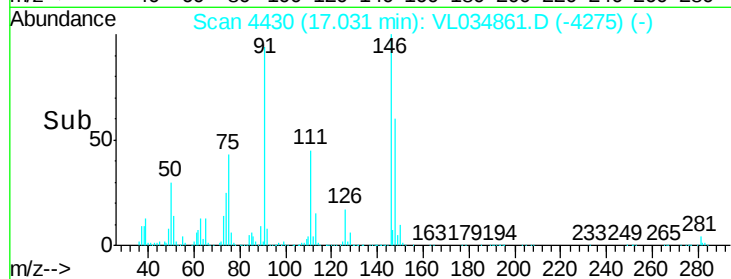
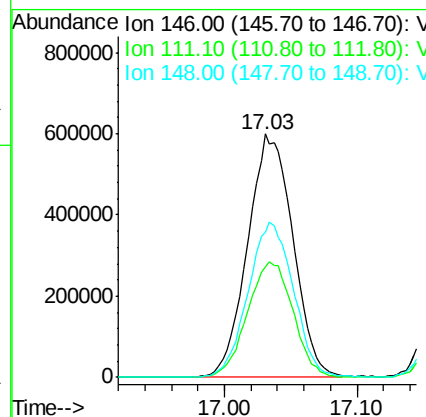
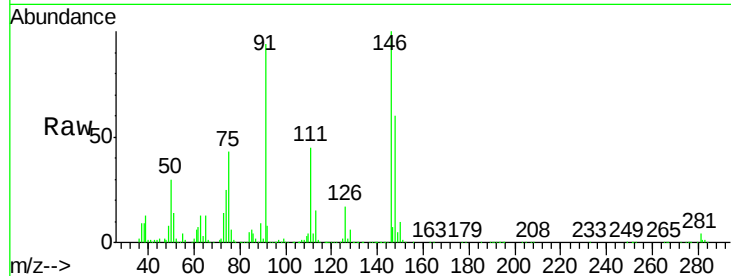
#75
 1,3-Dichlorobenzene
 Concen: 8.855 ppbv
 RT: 17.03 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.8	23.9	71.7
148	64.0	32.5	97.5

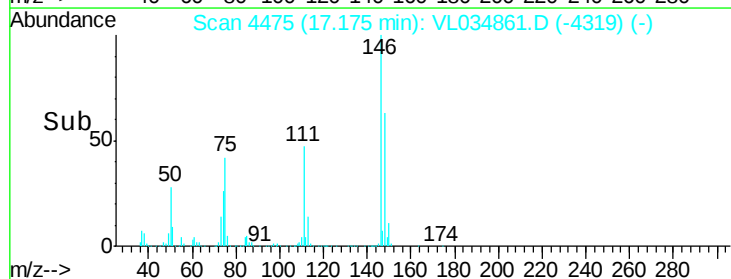
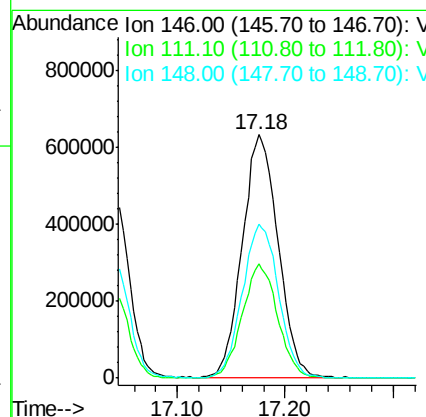
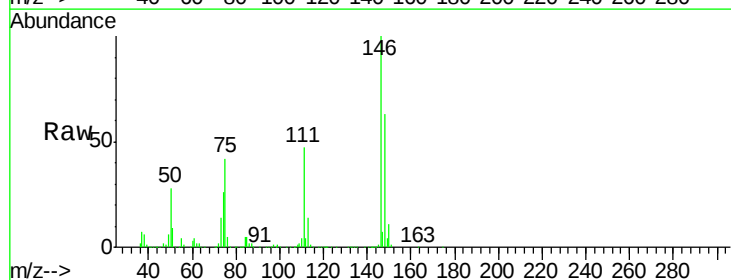
Manual Integrations
 APPROVED

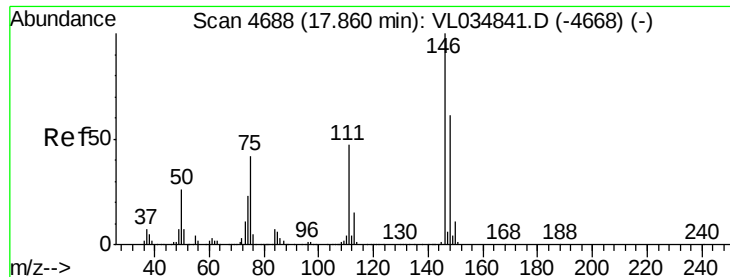
apatel
 3/16/2020 12:25:40 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.084 ppbv
 RT: 17.18 min Scan# 4475
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.4	70.2
148	64.6	32.3	96.9





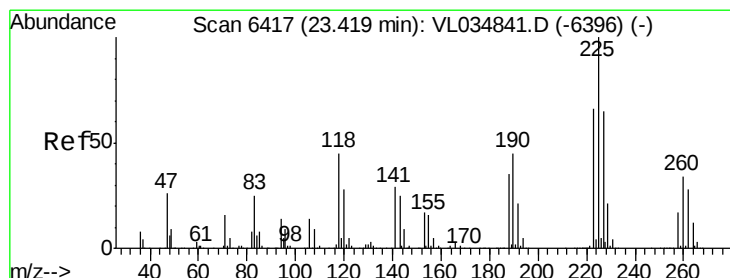
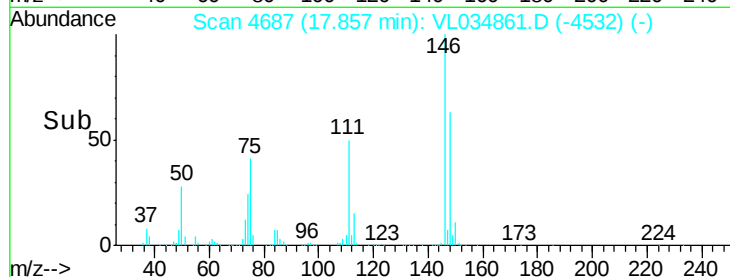
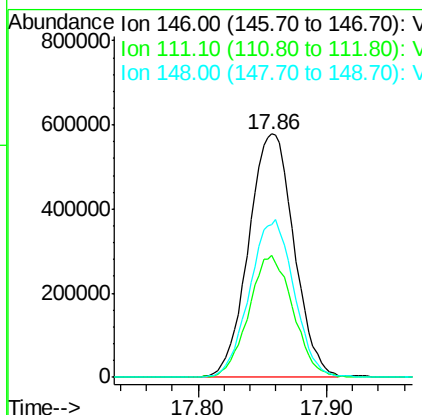
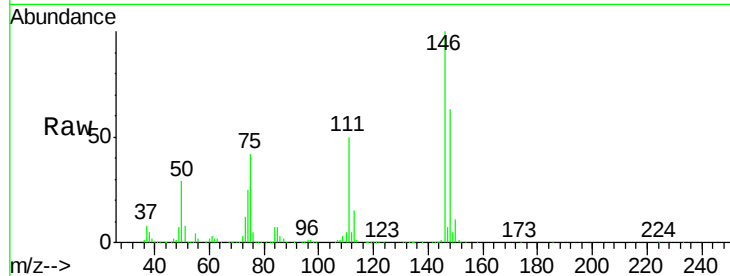
#77
 1,2-Dichlorobenzene
 Concen: 9.110 ppbv
 RT: 17.86 min Scan# 4687
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1417141
 Ion Ratio Lower Upper
 146 100
 111 48.9 23.8 71.4
 148 63.5 31.6 94.8

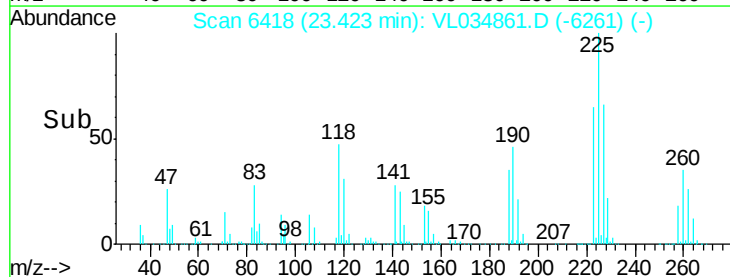
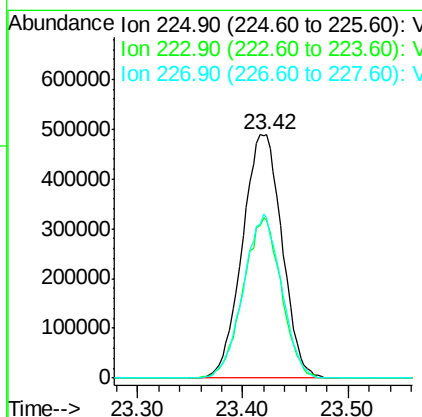
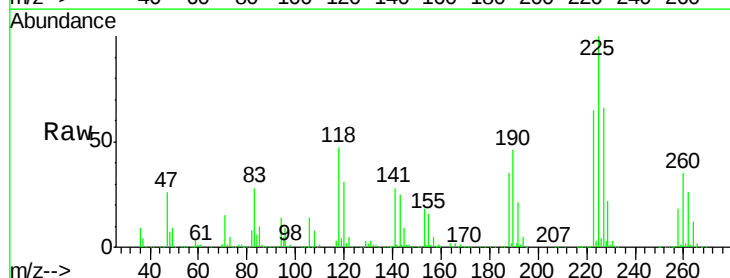
Manual Integrations
 APPROVED

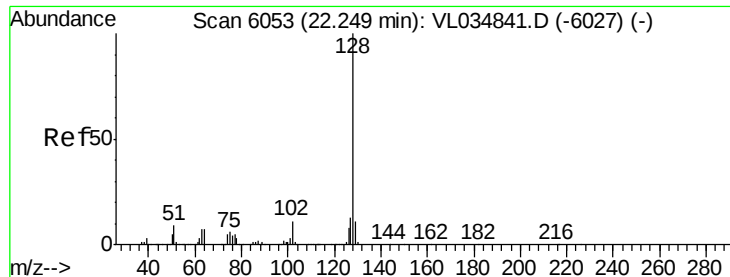
apatel
 3/16/2020 12:25:40 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.847 ppbv
 RT: 23.42 min Scan# 6418
 Delta R.T. 0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Tgt Ion:225 Resp: 1279360
 Ion Ratio Lower Upper
 225 100
 223 63.3 51.1 76.7
 227 64.7 51.8 77.6





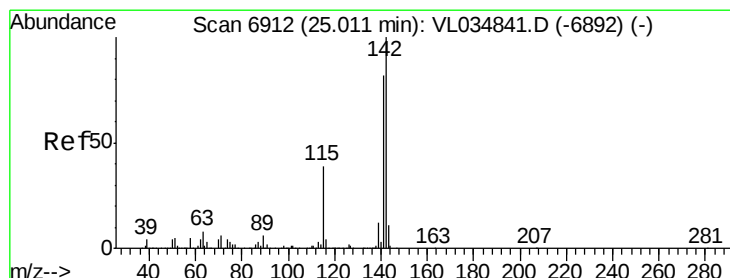
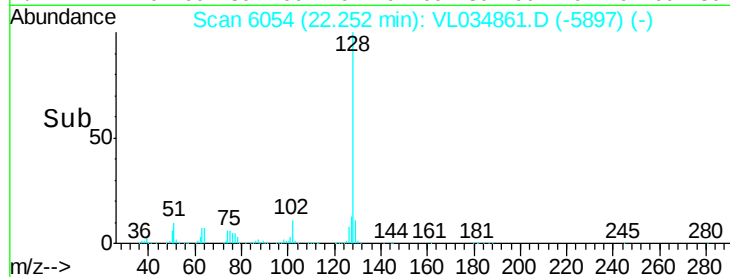
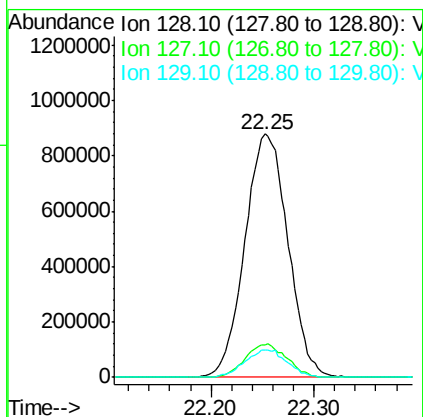
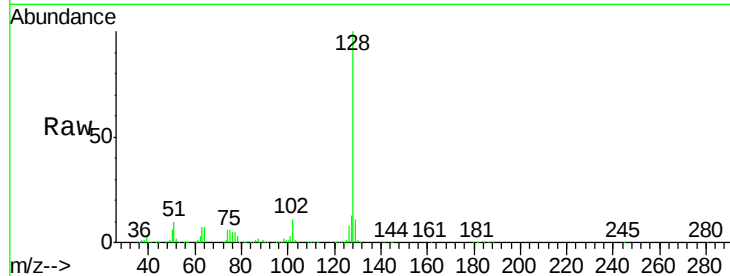
#79
Naphthalene
Concen: 12.273 ppbv
RT: 22.25 min Scan# 6054
Delta R.T. 0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:128 Resp: 2547385
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.2
129 11.2 8.6 13.0

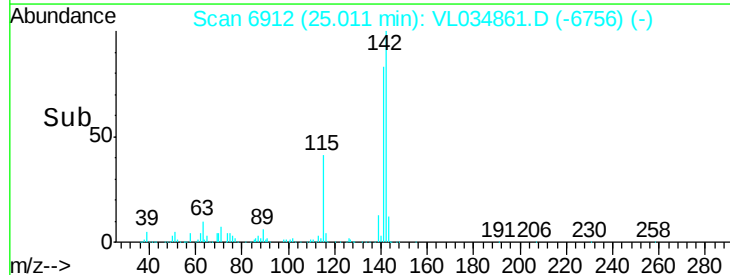
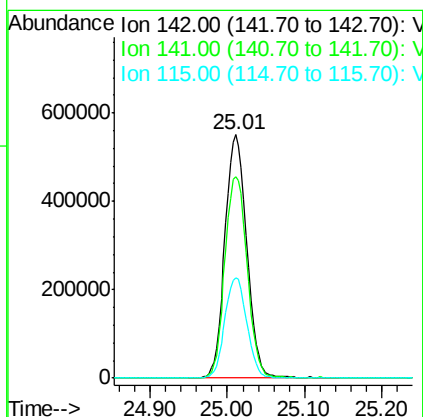
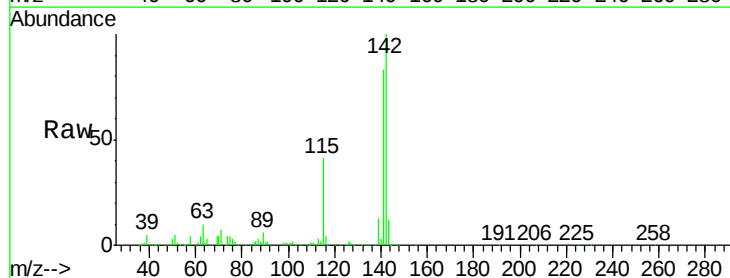
Manual Integrations
APPROVED

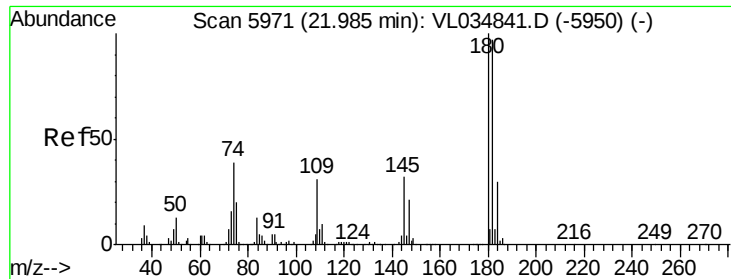
apatel
3/16/2020 12:25:40 PM



#80
Naphthalene, 2-methyl-
Concen: 19.858 ppbv
RT: 25.01 min Scan# 6912
Delta R.T. 0.00 min
Lab File: VL034861.D
Acq: 10 Mar 2020 8:58

Tgt Ion:142 Resp: 1077159
Ion Ratio Lower Upper
142 100
141 85.1 68.9 103.3
115 41.6 33.2 49.8





#81
 1,2,4-Trichlorobenzene
 Concen: 11.044 ppbv
 RT: 21.98 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL034861.D
 Acq: 10 Mar 2020 8:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.6	115.0
184	31.2	25.0	37.4

Manual Integrations
 APPROVED

apatel
 3/16/2020 12:25:40 PM

