

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034308.D
 Acq On : 16 Oct 2019 21:25
 Operator : SY/AP
 Sample : VL1016ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:38 PM

Quant Time: Oct 17 05:59:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:59:25 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1134271	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.24	114	2226558	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.18	117	2440832m	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1983738	9.60	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1469364	7.514	ppbv 100
3) Chlorodifluoromethane	2.98	51	1291894	9.717	ppbv 100
4) Chloromethane	3.13	50	804048	10.224	ppbv 100
5) Vinyl Chloride	3.25	62	732753	9.772	ppbv 97
6) Bromomethane	3.47	94	377489	10.281	ppbv 95
7) Chloroethane	3.56	64	270848	10.263	ppbv 98
8) Dichlorotetrafluoroethane	3.18	85	1617088	9.544	ppbv 99
9) Propene	3.00	41	606780	10.296	ppbv 98
10) Heptane	8.19	43	1583304	10.467	ppbv 100
11) Trichlorofluoromethane	3.96	101	1781986	9.598	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1194981	9.825	ppbv 99
13) Ethanol	3.61	45	126304	9.572	ppbv 97
14) Bromoethene	3.75	108	501691	10.476	ppbv 98
15) Acetone	3.86	43	1358130	8.371	ppbv 99
16) 1,3-Butadiene	3.32	39	695317	10.548	ppbv 100
17) tert-Butyl alcohol	4.31	59	1222234	11.804	ppbv 99
18) 1,1-Dichloroethene	4.31	96	539733	10.135	ppbv 95
19) Isopropyl Alcohol	3.98	45	1014921	11.214	ppbv 100
20) Methylene Chloride	4.36	84	475440	8.106	ppbv 90
21) Allyl Chloride	4.43	41	954488	10.642	ppbv 99
22) trans-1,2-Dichloroethene	4.92	96	554808	10.445	ppbv 98
23) Vinyl Acetate	5.11	43	2189207	10.805	ppbv 98
24) 1,1-Dichloroethane	5.04	63	1504405	10.005	ppbv 99
25) Ethyl Acetate	5.72	43	2693251	9.833	ppbv 99
26) Hexane	5.73	57	1140051	9.765	ppbv 99
27) Carbon Disulfide	4.57	76	1382319	11.405	ppbv 100
28) Methyl tert-Butyl Ether	5.06	73	1884910	10.668	ppbv 100
29) Chloroform	5.80	83	1813042	9.818	ppbv 95
30) Cyclohexane	7.20	84	910216m	10.601	ppbv
31) cis-1,2-Dichloroethene	5.59	61	1258102	10.618	ppbv 98
32) 1,1,1-Trichloroethane	6.56	97	1807581	10.065	ppbv 100
34) 2-Butanone	5.28	43	1836037	10.088	ppbv 100
35) Carbon Tetrachloride	7.08	117	1887898	9.735	ppbv 97
36) Benzene	6.95	78	2173976	10.176	ppbv 99
37) 1,2-Dichloroethane	6.36	62	1595942	10.024	ppbv 99
38) Trichloroethene	7.91	130	823120	9.602	ppbv 91
39) 1,2-Dichloropropane	7.68	63	929495	10.104	ppbv 99
40) 1,4-Dioxane	7.90	88	338216	10.462	ppbv # 1
41) Tetrahydrofuran	6.10	42	1066428	10.558	ppbv 99
42) Bromodichloromethane	7.86	83	2001832	10.265	ppbv 100
43) Methyl Methacrylate	8.08	69	955353	10.813	ppbv 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034308.D
 Acq On : 16 Oct 2019 21:25
 Operator : SY/AP
 Sample : VL1016ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:38 PM

Quant Time: Oct 17 05:59:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:59:25 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3913059	9.896	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1275376	11.847	ppbv	100
46) cis-1,3-Dichloropropene	8.78	75	1449348	11.719	ppbv	96
47) 1,1,2-Trichloroethane	9.56	97	917571	9.848	ppbv	95
48) Dibromochloromethane	10.39	129	1652506	10.812	ppbv	100
49) Bromoform	13.15	173	1523601	11.249	ppbv	100
50) 4-Methyl-2-Pentanone	8.81	43	2715266	10.422	ppbv	100
51) 2-Hexanone	10.21	43	2312670	10.828	ppbv #	99
52) Tetrachloroethene	11.31	164	815464	9.738	ppbv	99
53) Toluene	9.89	91	2494730	10.582	ppbv	100
54) 1,2-Dibromoethane	10.70	107	1406183	10.182	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	1100356m	9.782	ppbv	
57) Chlorobenzene	12.24	112	1911309	9.386	ppbv	99
58) Ethyl Benzene	12.81	91	3469170	10.167	ppbv	98
59) m/p-Xylene	13.09	91	5635940m	19.064	ppbv	
60) o-Xylene	13.79	91	2863688	9.728	ppbv	99
61) Styrene	13.63	104	2135398	10.304	ppbv	99
62) Isopropylbenzene	14.77	105	3722100	9.578	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	2044204	8.641	ppbv	99
64) n-propylbenzene	15.67	120	995480	9.982	ppbv	99
65) tert-Butylbenzene	16.85	119	3347389	9.719	ppbv	100
66) Benzyl Chloride	17.10	91	1716402	12.618	ppbv	100
67) sec-Butylbenzene	17.40	105	4619955	9.532	ppbv	100
69) p-Isopropyltoluene	17.76	119	3879394	9.817	ppbv	99
70) n-Butylbenzene	18.66	91	4164164	9.686	ppbv	100
71) 2-Chlorotoluene	15.56	91	2976229	9.877	ppbv	99
72) 4-Ethyltoluene	15.94	105	3327201	10.055	ppbv	100
73) 1,3,5-Trimethylbenzene	16.10	105	3185040	9.714	ppbv	95
74) 1,2,4-Trimethylbenzene	16.87	105	3294706	9.636	ppbv	99
75) 1,3-Dichlorobenzene	17.11	146	1907705	9.293	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1942721	9.689	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1874358	9.313	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1360642	8.173	ppbv	100
79) Naphthalene	22.34	128	2858113	11.443	ppbv	100
80) Naphthalene, 2-methyl-	25.07	142	948128	13.133	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	1720167	10.545	ppbv	100

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

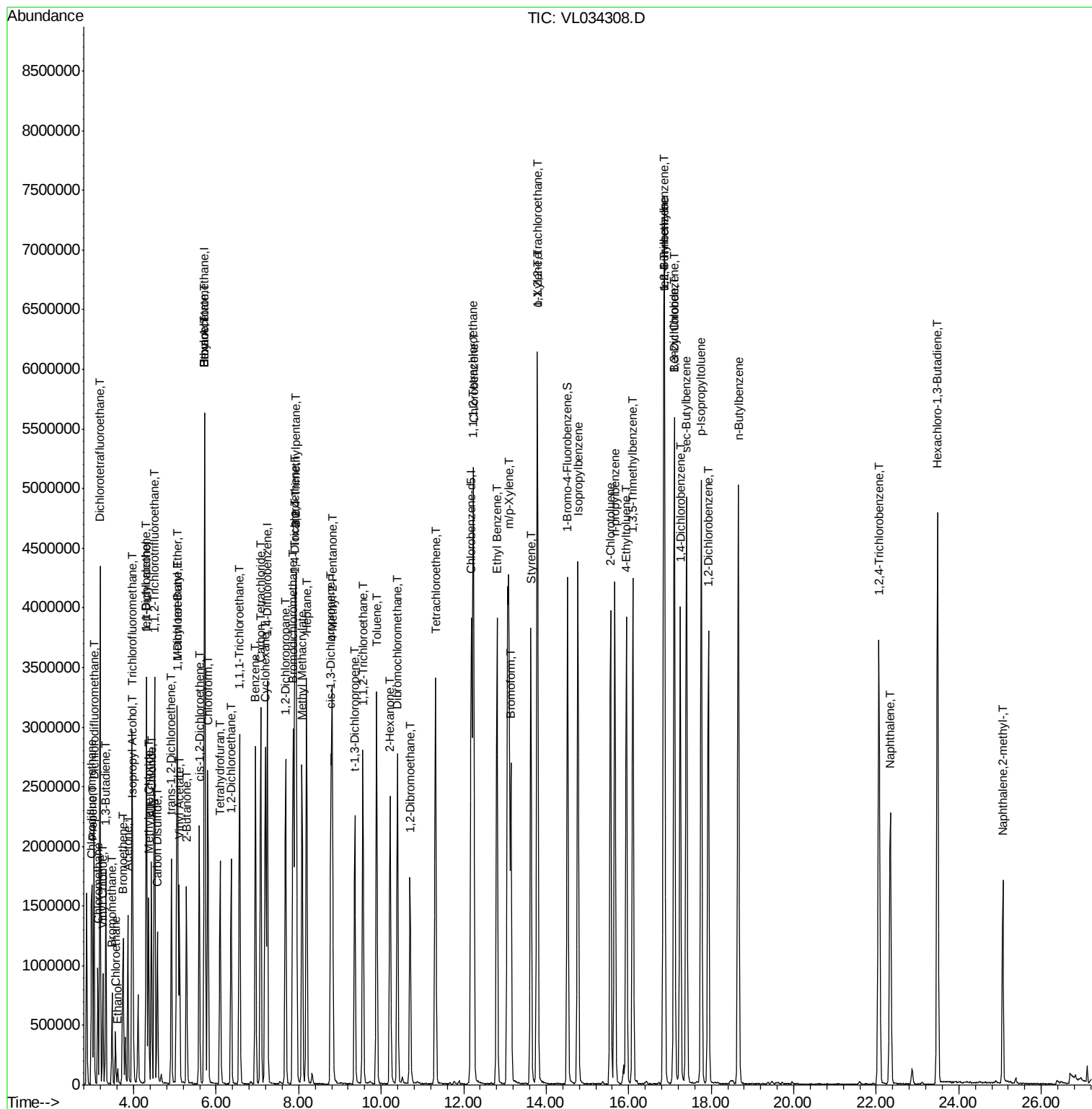
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
Data File : VL034308.D
Acq On : 16 Oct 2019 21:25
Operator : SY/AP
Sample : VL1016ABS01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

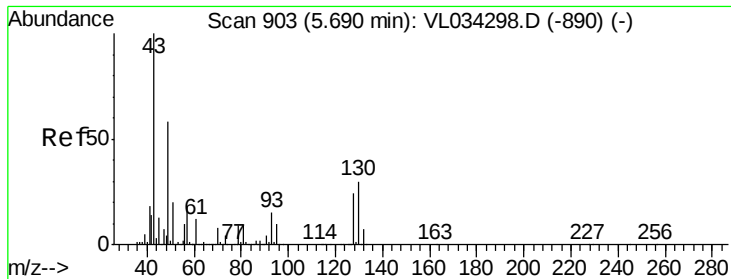
Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Manual Integrations
APPROVED

MM Dadoda
10/18/2019 3:04:38 PM

Quant Time: Oct 17 05:59:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 49 Resp: 1134271

Ion Ratio Lower Upper

49 100

128 41.7 20.6 61.8

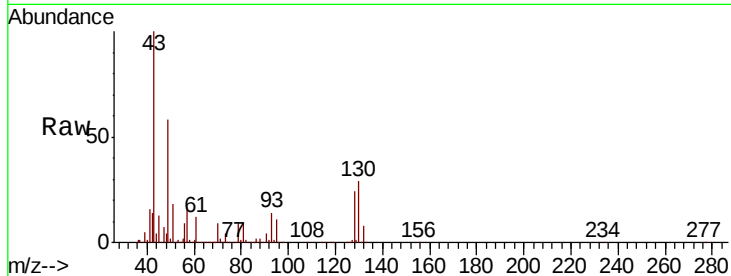
130 53.1 26.2 78.5

Manual Integrations

APPROVED

MMDadoda

10/18/2019 3:04:38 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.71

800000

600000

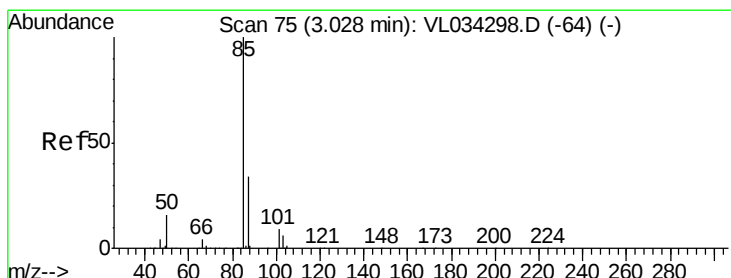
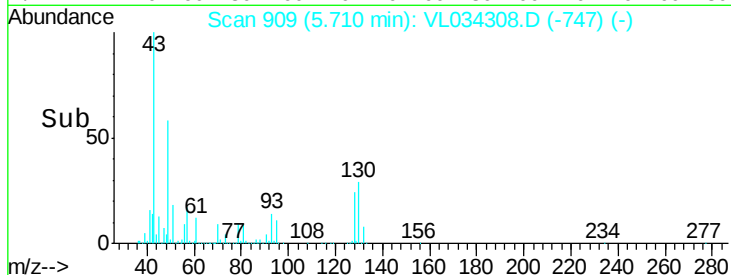
400000

200000

0

5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 7.514 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL034308.D

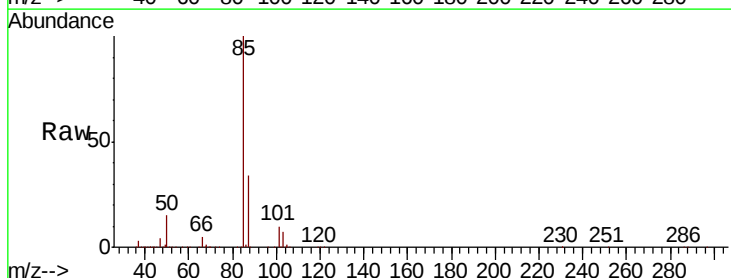
Acq: 16 Oct 2019 21:25

Tgt Ion: 85 Resp: 1469364

Ion Ratio Lower Upper

85 100

87 33.6 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

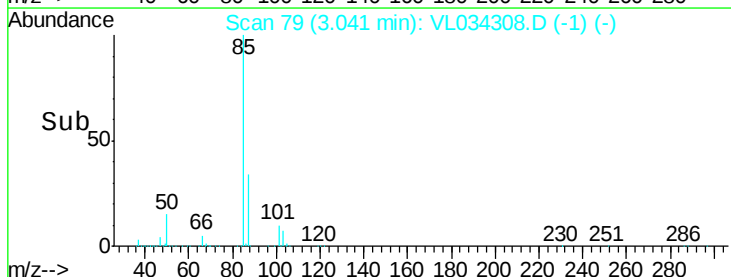
1000000

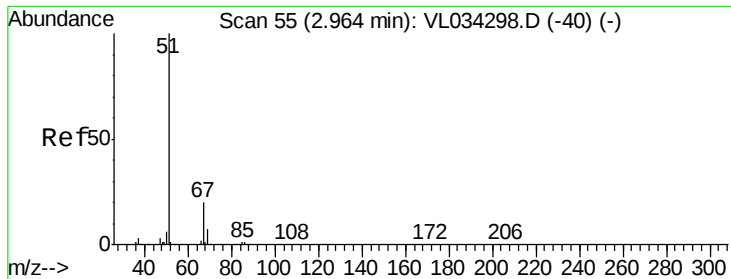
500000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 9.717 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 51 Resp: 1291894

Ion Ratio Lower Upper

51 100

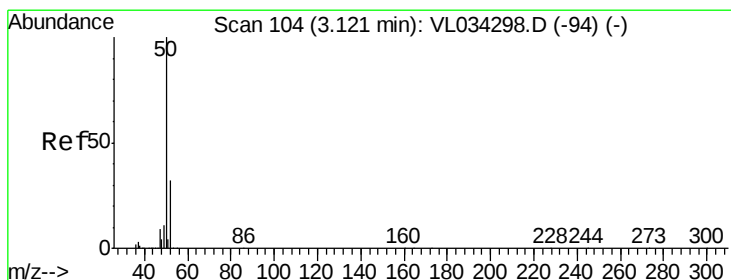
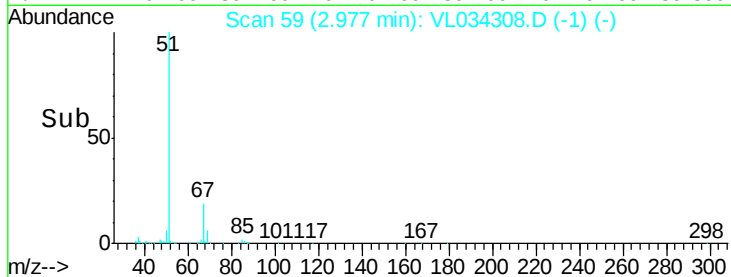
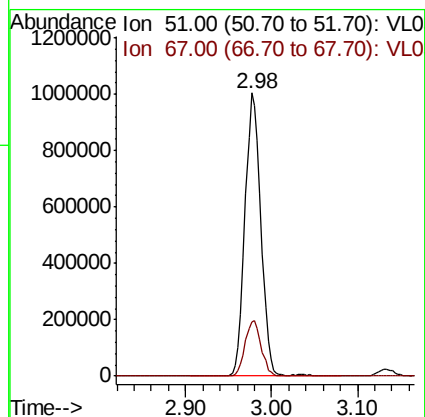
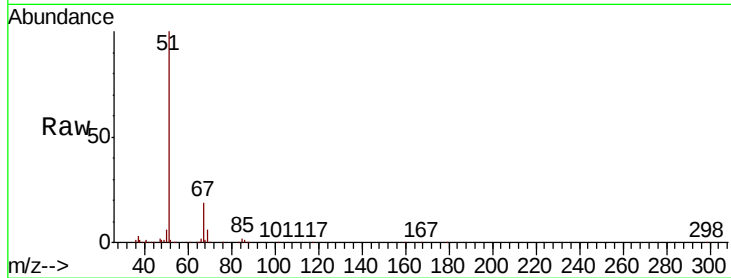
67 19.9 15.8 23.8

Manual Integrations

APPROVED

MMDadoda

10/18/2019 3:04:38 PM



#4

Chloromethane

Concen: 10.224 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL034308.D

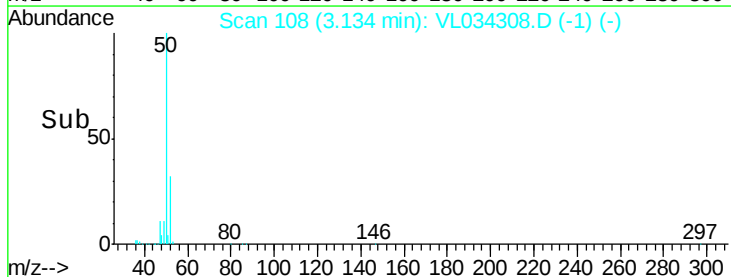
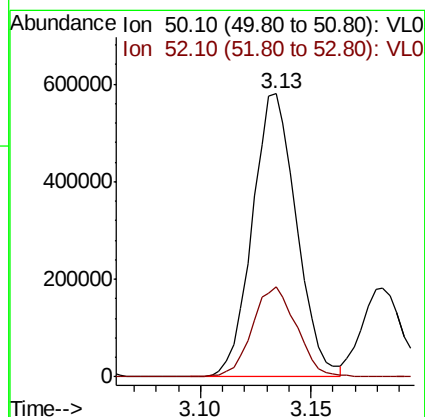
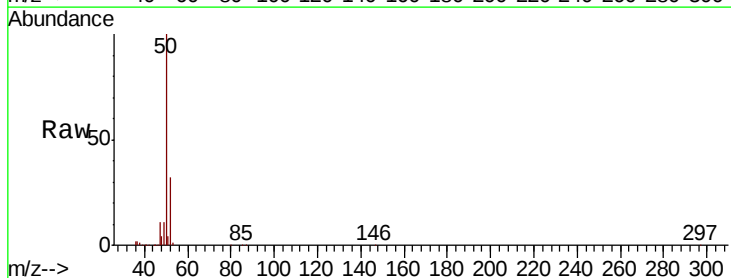
Acq: 16 Oct 2019 21:25

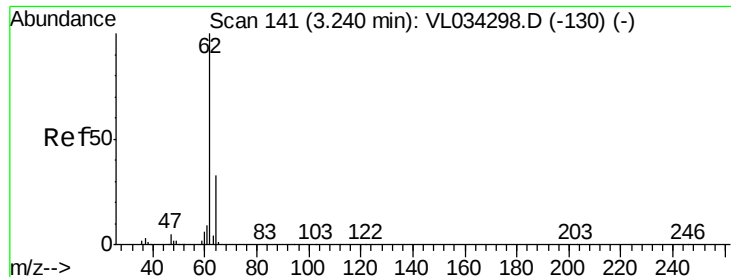
Tgt Ion: 50 Resp: 804048

Ion Ratio Lower Upper

50 100

52 31.9 25.4 38.2





#5

Vinyl Chloride

Concen: 9.772 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 62 Resp: 732753

Ion Ratio Lower Upper

62 100

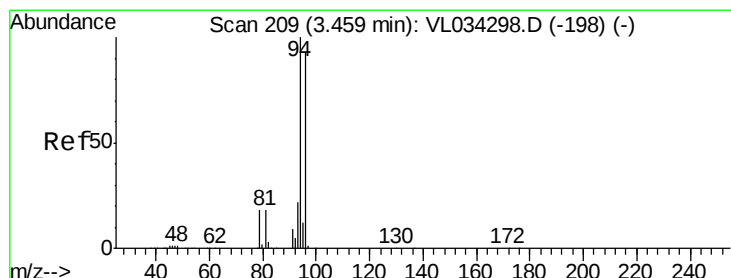
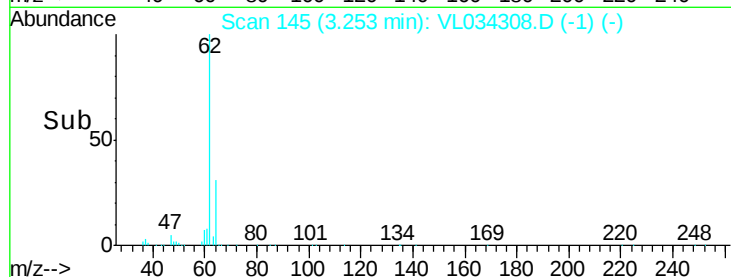
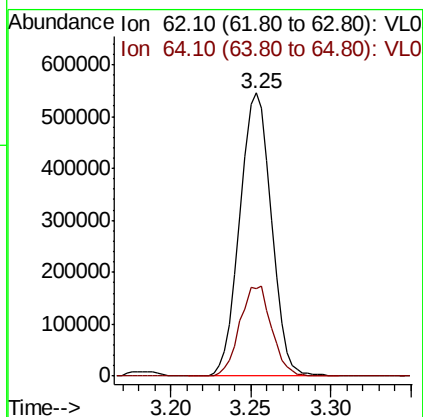
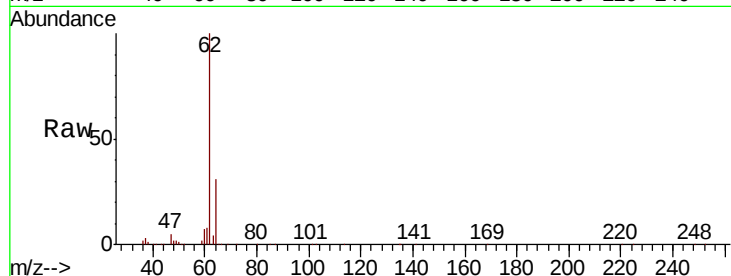
64 30.8 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

10/18/2019 3:04:38 PM



#6

Bromomethane

Concen: 10.281 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.02 min

Lab File: VL034308.D

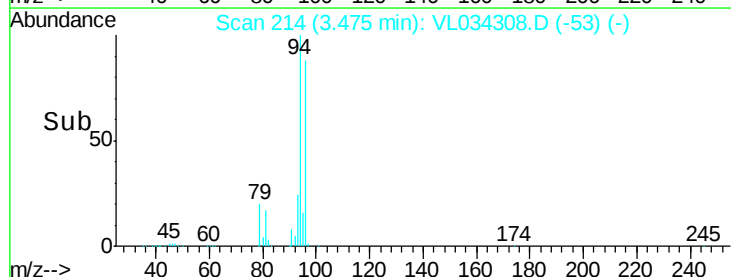
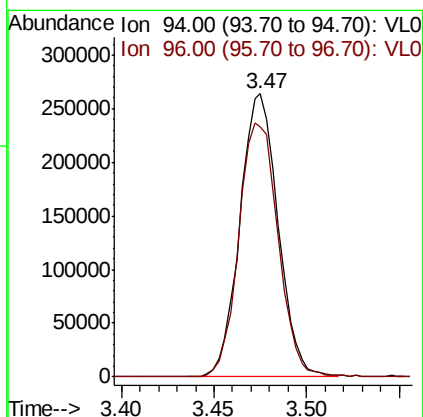
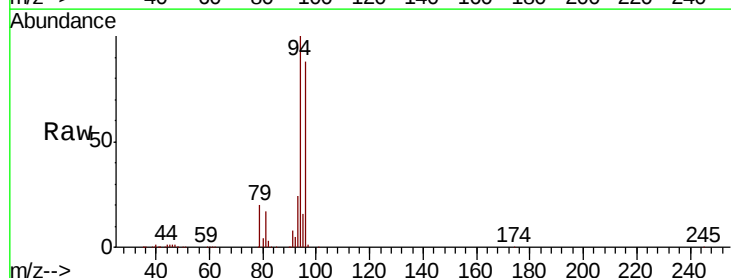
Acq: 16 Oct 2019 21:25

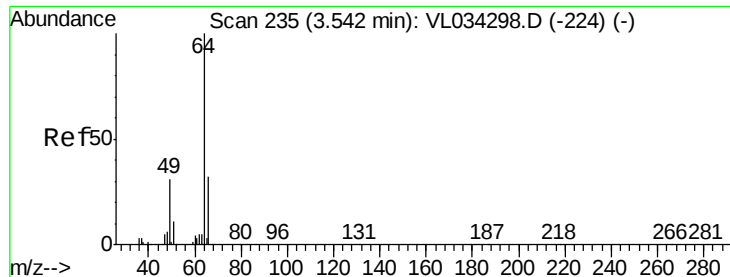
Tgt Ion: 94 Resp: 377489

Ion Ratio Lower Upper

94 100

96 88.1 74.6 112.0





#7

Chloroethane

Concen: 10.263 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 64 Resp: 270848

Ion Ratio Lower Upper

64 100

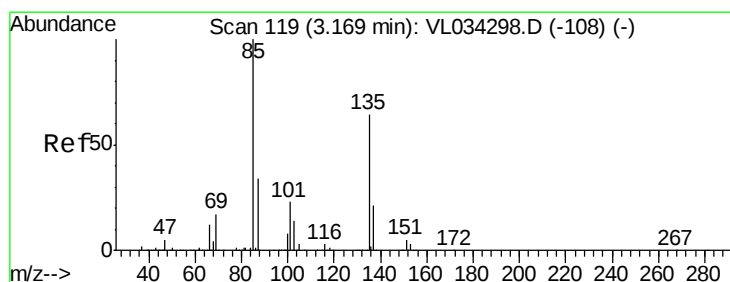
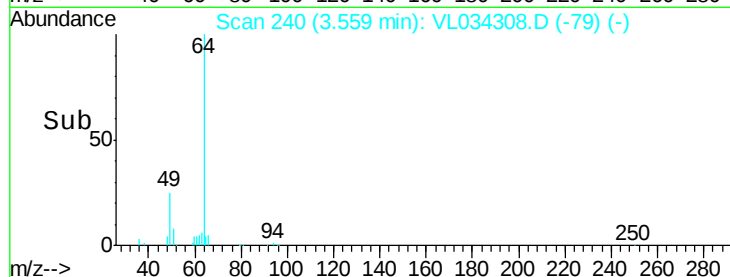
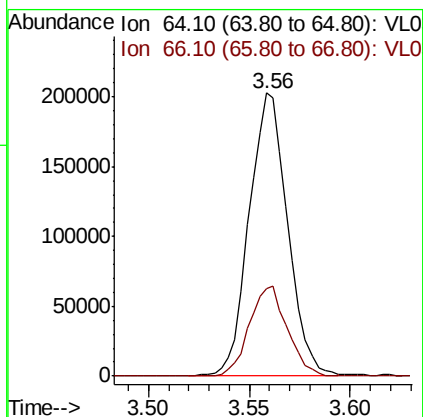
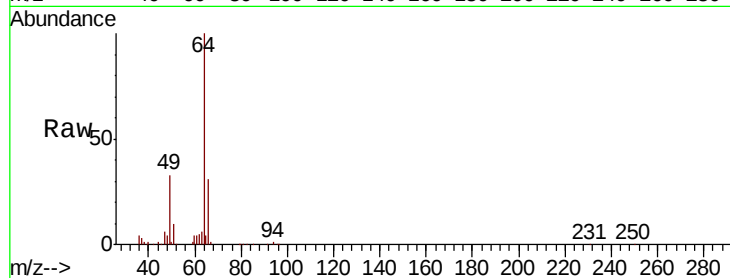
66 30.9 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

10/18/2019 3:04:38 PM



#8

Dichlorotetrafluoroethane

Concen: 9.544 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.01 min

Lab File: VL034308.D

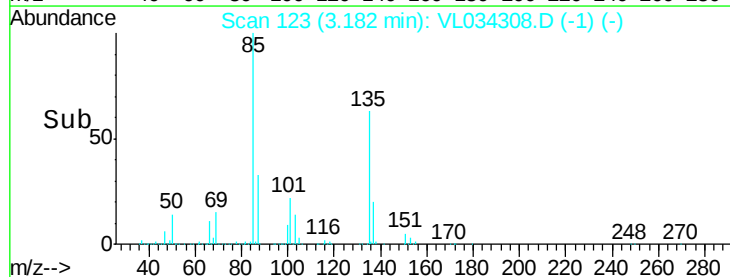
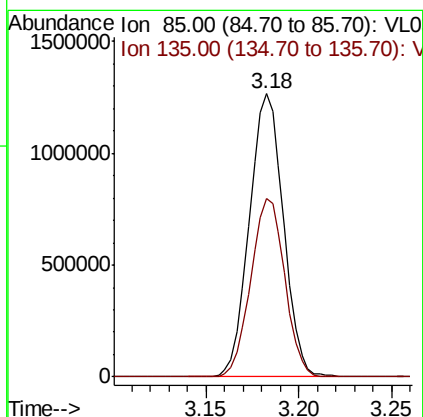
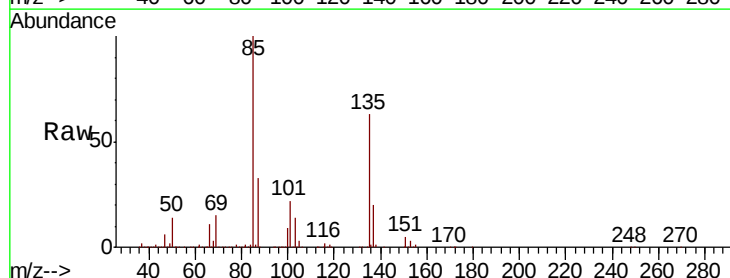
Acq: 16 Oct 2019 21:25

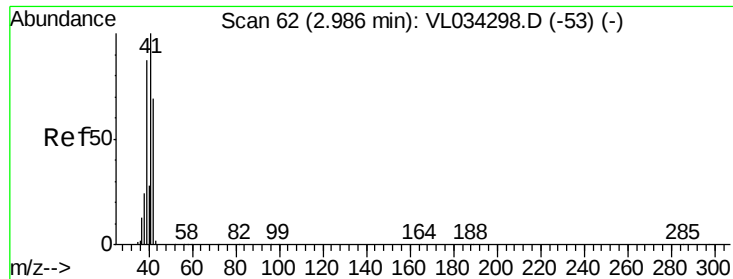
Tgt Ion: 85 Resp: 1617088

Ion Ratio Lower Upper

85 100

135 63.3 50.2 75.2





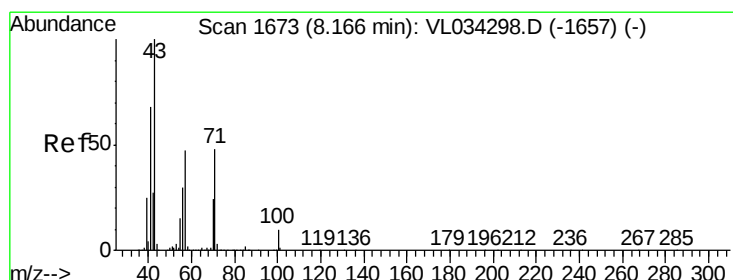
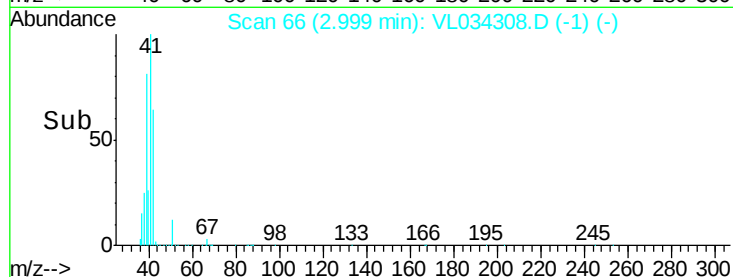
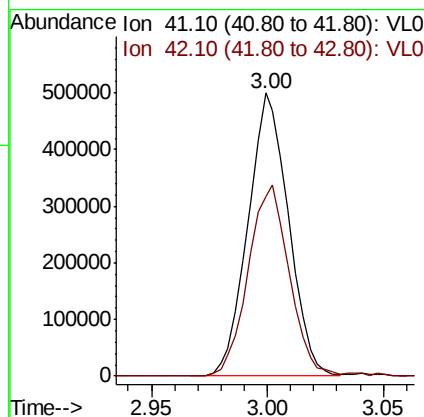
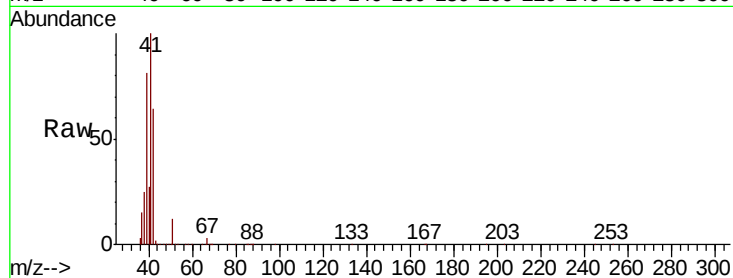
#9
 Propene
 Concen: 10.296 ppbv
 RT: 3.00 min Scan# 66
 Delta R.T. 0.01 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	41.10 (40.80 to 41.80): VL0	Resp	606780
Ion Ratio	Lower	Upper	
41	100		
42	69.3	53.9	80.9

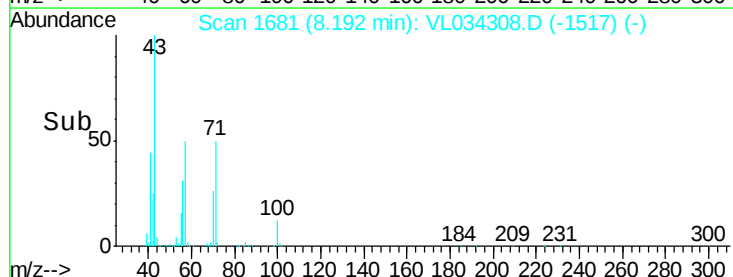
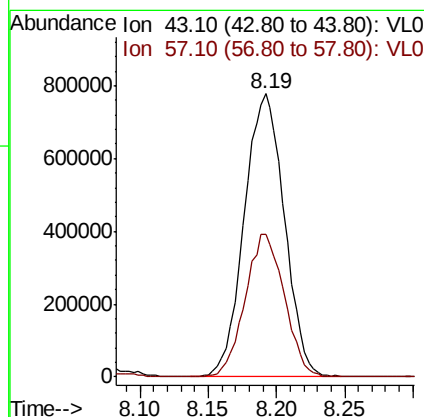
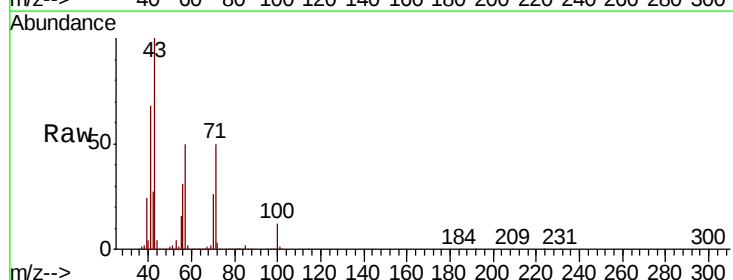
Manual Integrations
 APPROVED

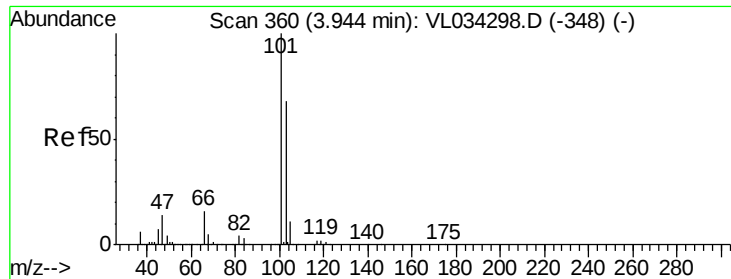
MMDadoda
 10/18/2019 3:04:38 PM



#10
 Heptane
 Concen: 10.467 ppbv
 RT: 8.19 min Scan# 1681
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion	43.10 (42.80 to 43.80): VL0	Resp	1583304
Ion Ratio	Lower	Upper	
43	100		
57	49.1	39.5	59.3





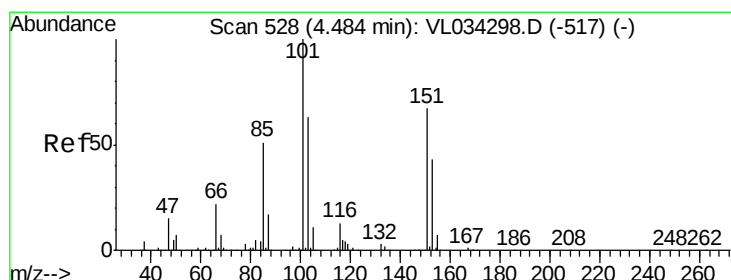
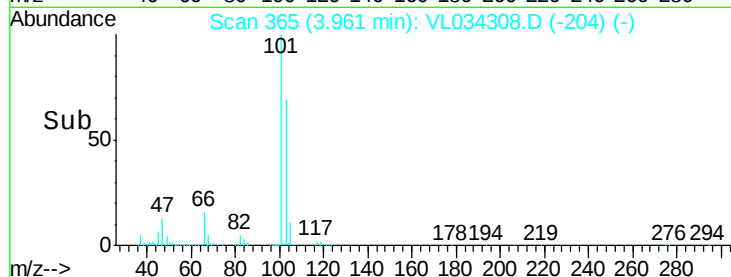
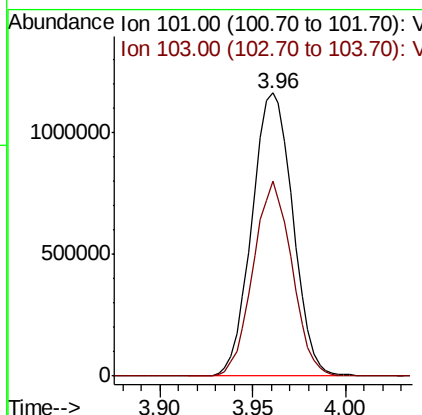
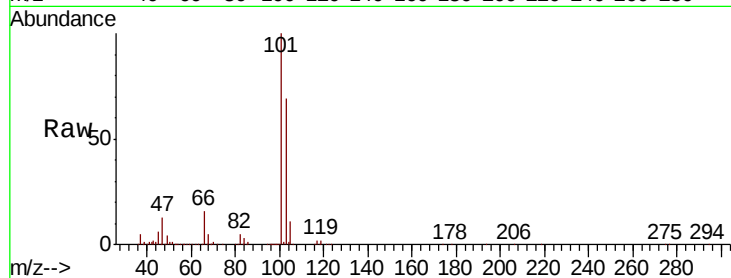
#11
 Trichlorofluoromethane
 Concen: 9.598 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion:101 Resp: 1781986
 Ion Ratio Lower Upper
 101 100
 103 69.0 54.5 81.7

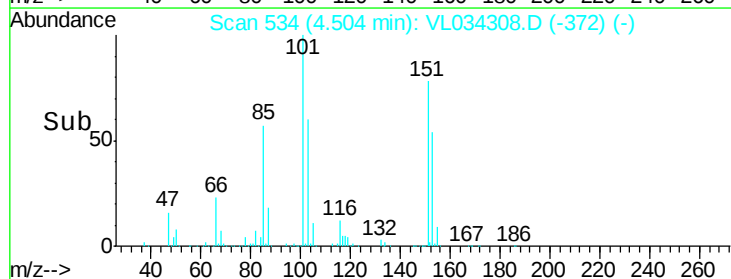
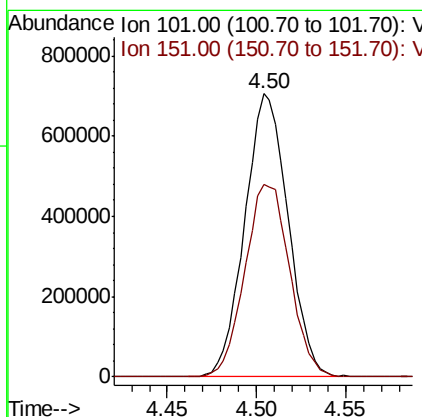
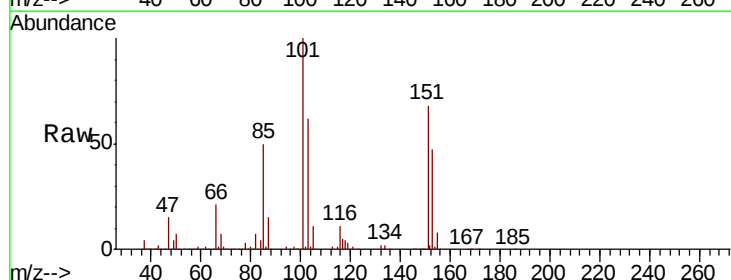
Manual Integrations
 APPROVED

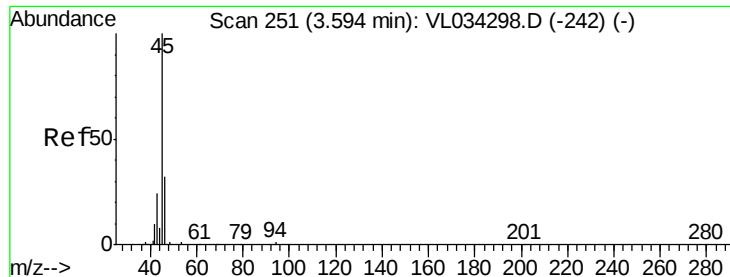
MMDadoda
 10/18/2019 3:04:38 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.825 ppbv
 RT: 4.50 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion:101 Resp: 1194981
 Ion Ratio Lower Upper
 101 100
 151 70.8 57.4 86.2





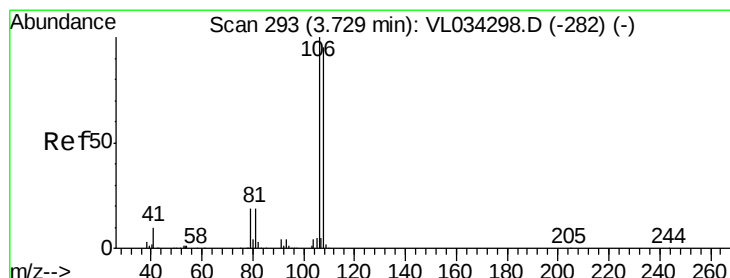
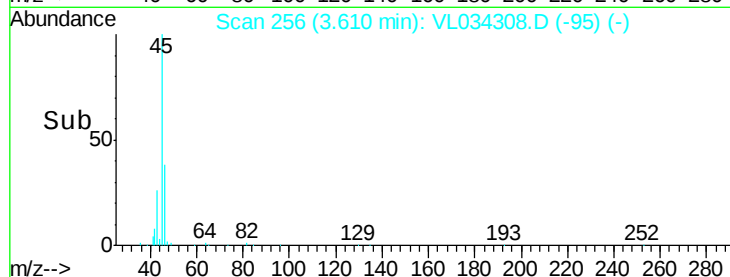
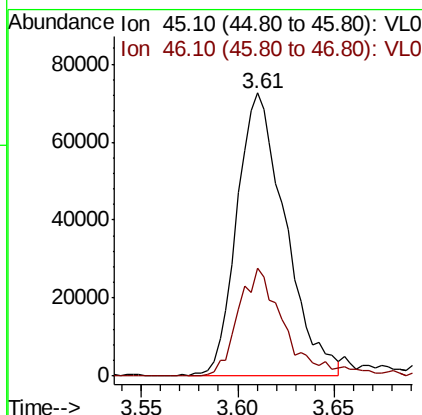
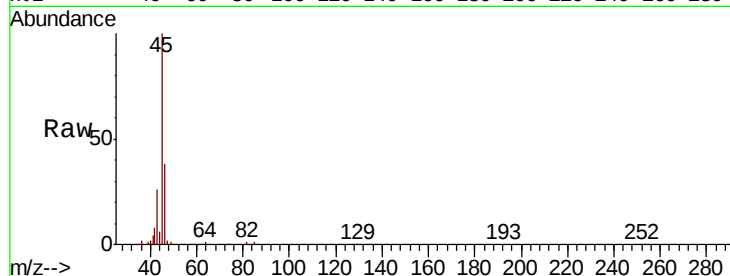
#13
Ethanol
Concen: 9.572 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.8	15.8	63.2

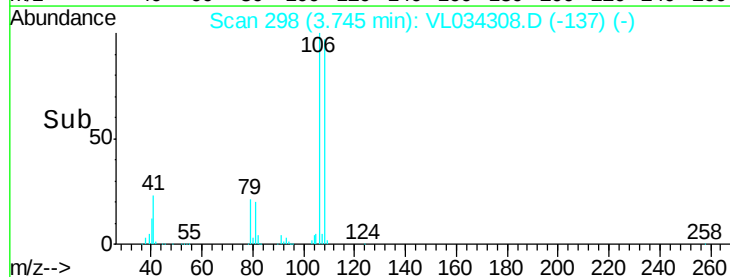
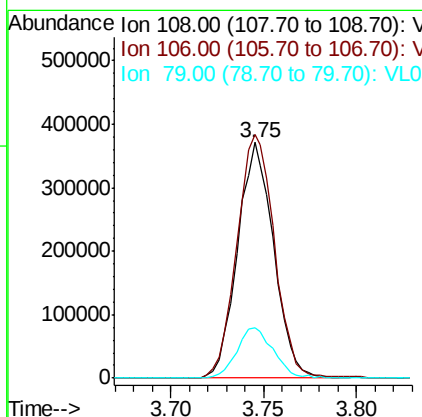
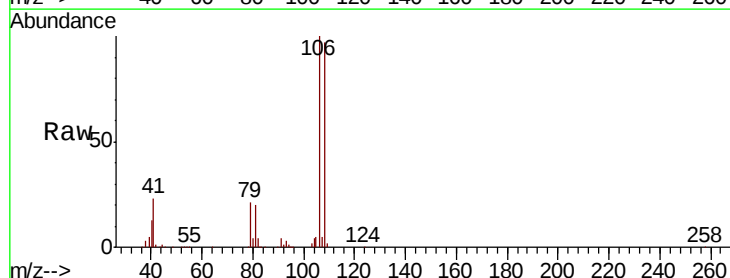
Manual Integrations
APPROVED

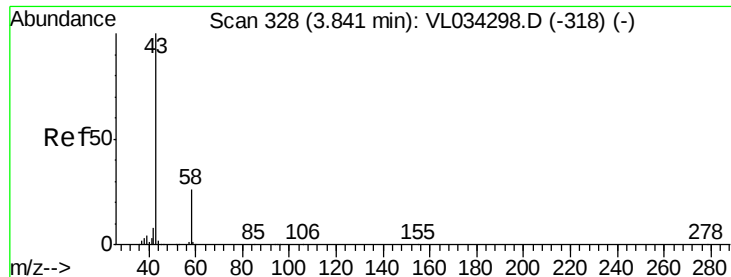
MMDadoda
10/18/2019 3:04:38 PM



#14
Bromoethene
Concen: 10.476 ppbv
RT: 3.75 min Scan# 298
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.6	84.8	127.2
79	21.9	17.0	25.4





#15

Acetone

Concen: 8.371 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 43 Resp: 1358130

Ion Ratio Lower Upper

43 100

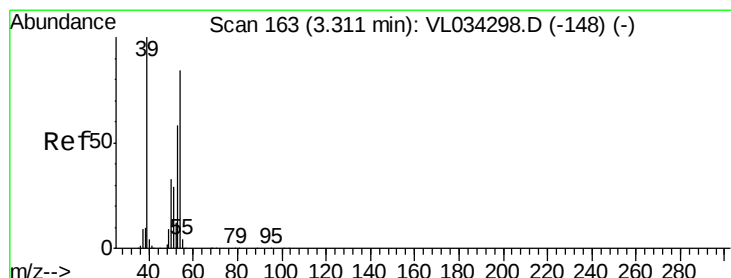
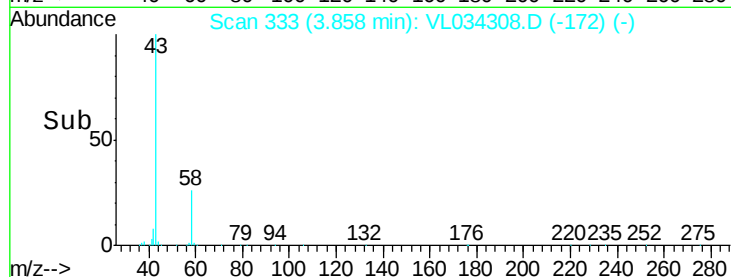
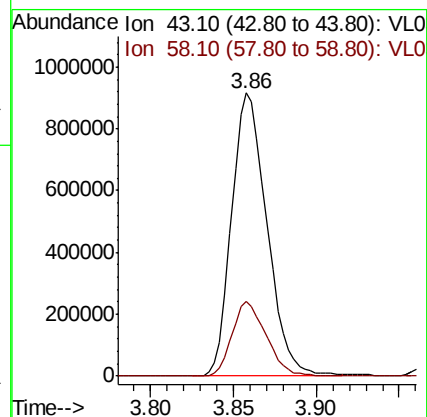
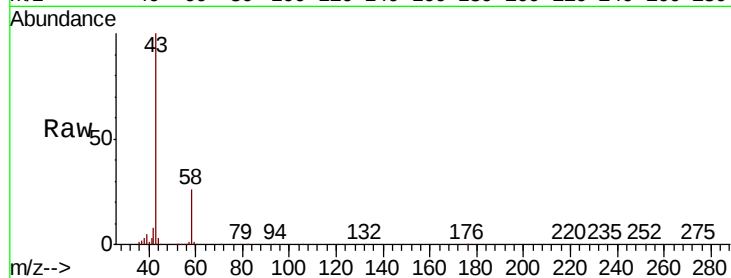
58 25.8 20.4 30.6

Manual Integrations

APPROVED

MMDadoda

10/18/2019 3:04:38 PM



#16

1,3-Butadiene

Concen: 10.548 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.01 min

Lab File: VL034308.D

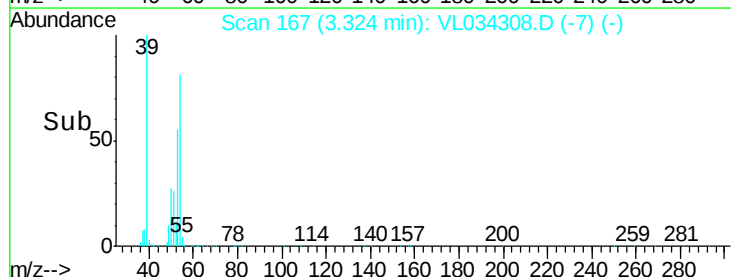
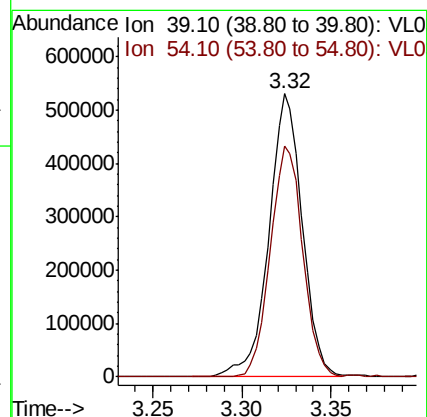
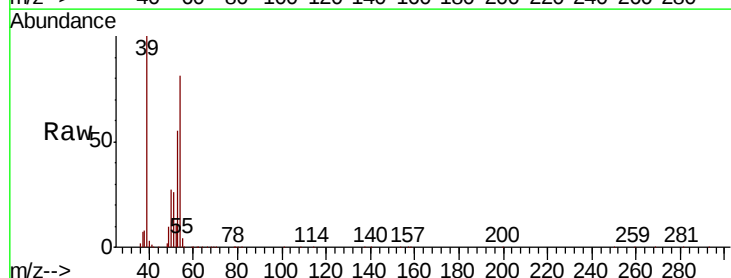
Acq: 16 Oct 2019 21:25

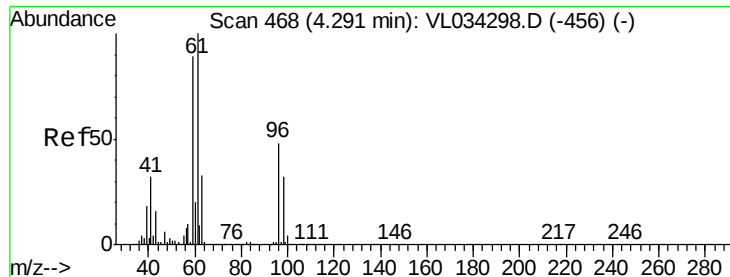
Tgt Ion: 39 Resp: 695317

Ion Ratio Lower Upper

39 100

54 79.8 63.9 95.9





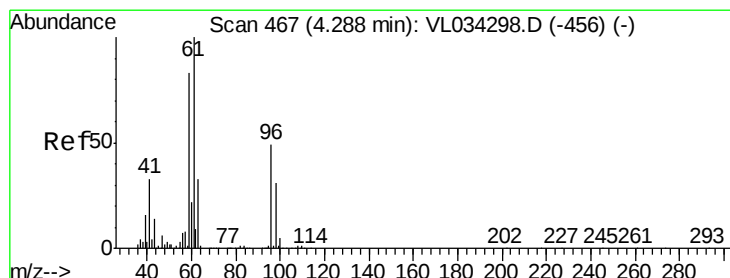
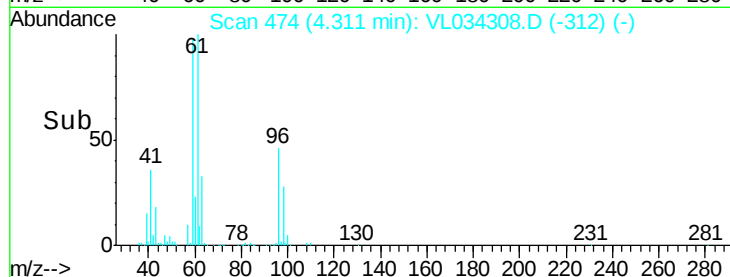
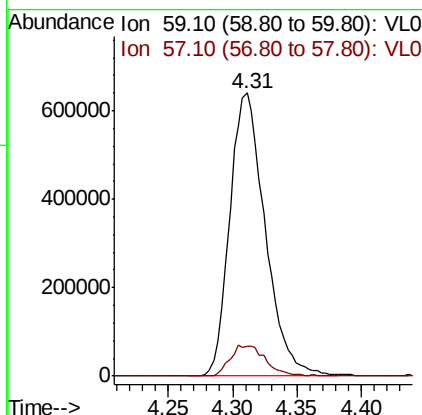
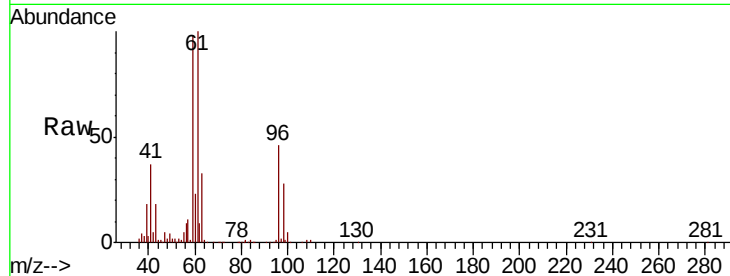
#17
tert-Butyl alcohol
Concen: 11.804 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 59 Resp: 1222234
Ion Ratio Lower Upper
59 100
57 11.2 8.8 13.2

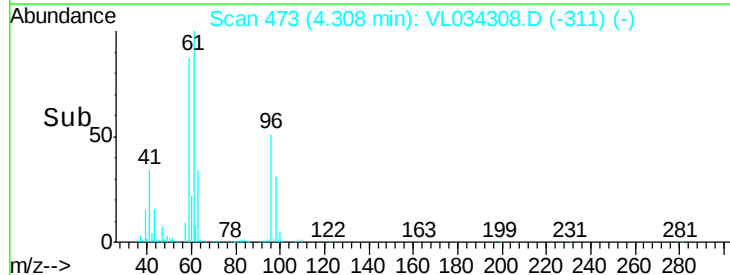
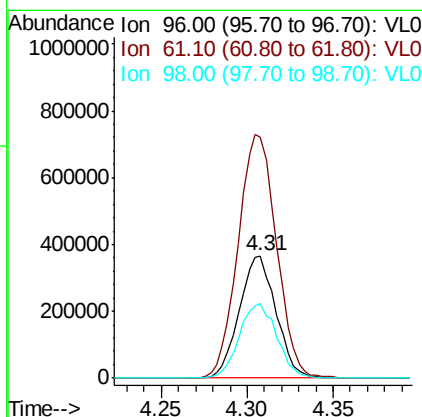
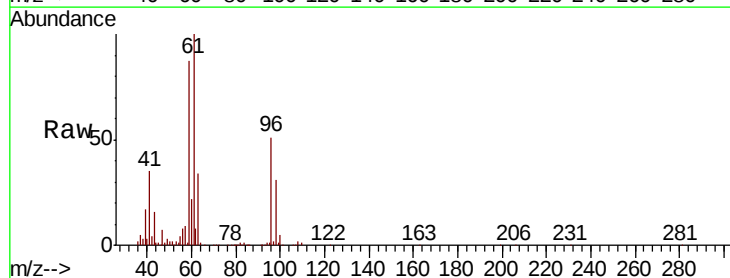
Manual Integrations
APPROVED

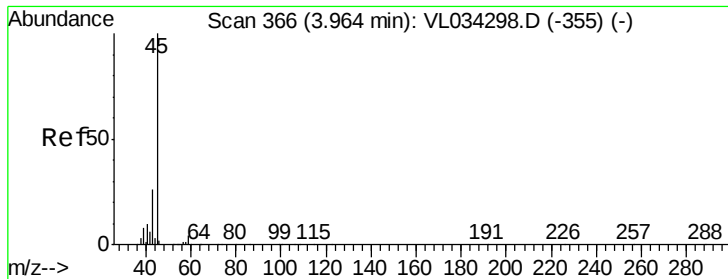
MMDadoda
10/18/2019 3:04:38 PM



#18
1,1-Dichloroethene
Concen: 10.135 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 96 Resp: 539733
Ion Ratio Lower Upper
96 100
61 197.2 164.5 246.7
98 60.7 51.7 77.5





#19

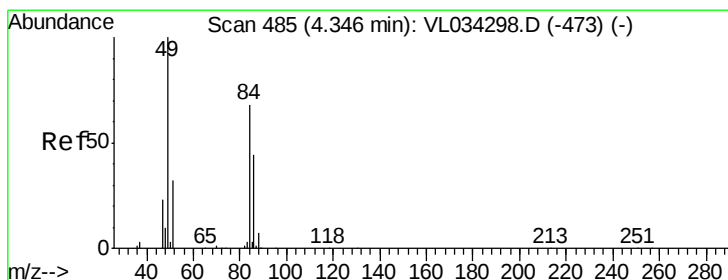
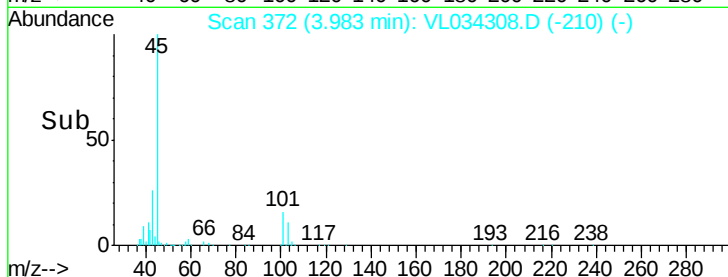
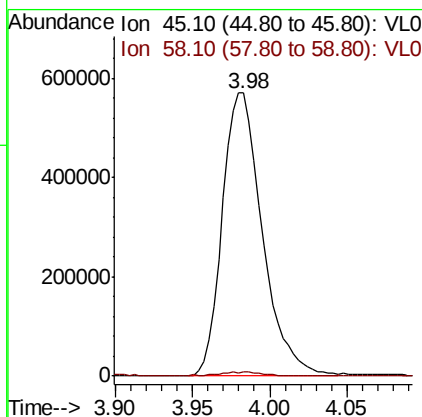
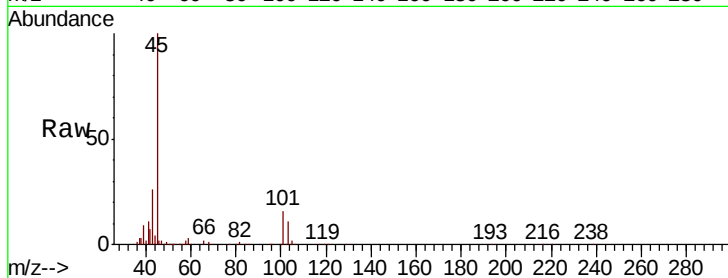
Isopropyl Alcohol
 Concen: 11.214 ppbv
 RT: 3.98 min Scan# 372
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion: 45 Resp: 1014921
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.4 2.2

Manual Integrations
 APPROVED

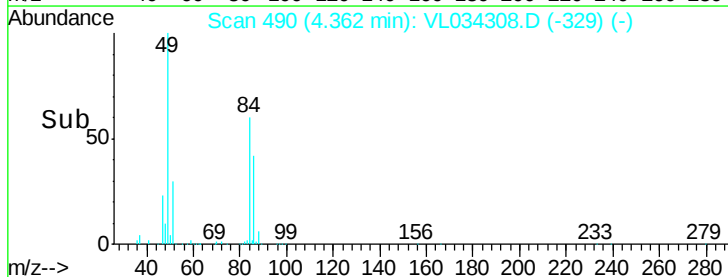
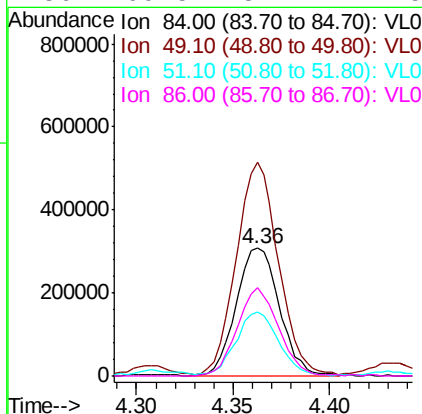
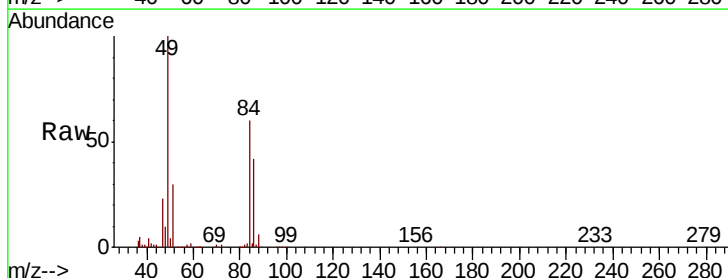
MMDadoda
 10/18/2019 3:04:38 PM

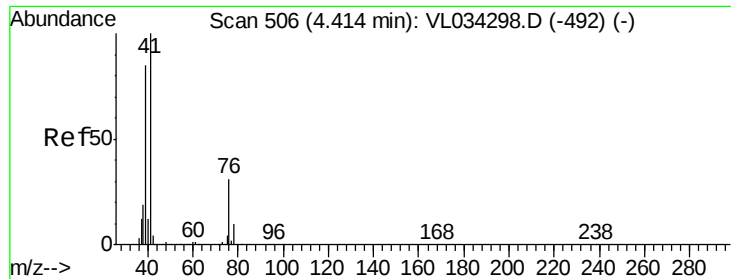


#20

Methylene Chloride
 Concen: 8.106 ppbv
 RT: 4.36 min Scan# 490
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 84 Resp: 475440
 Ion Ratio Lower Upper
 84 100
 49 166.0 118.5 177.7
 51 49.9 38.8 58.2
 86 69.5 51.7 77.5





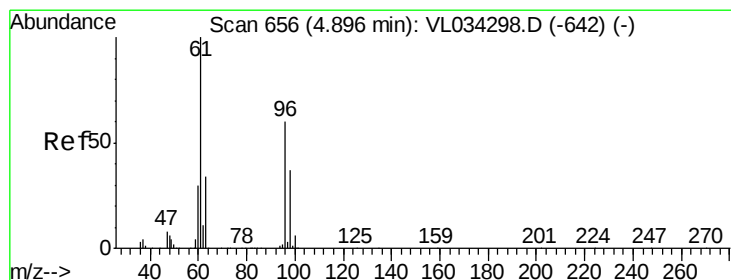
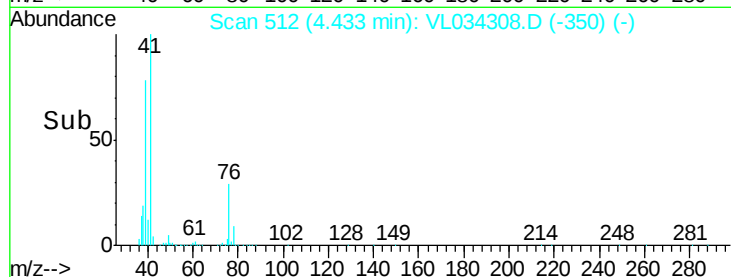
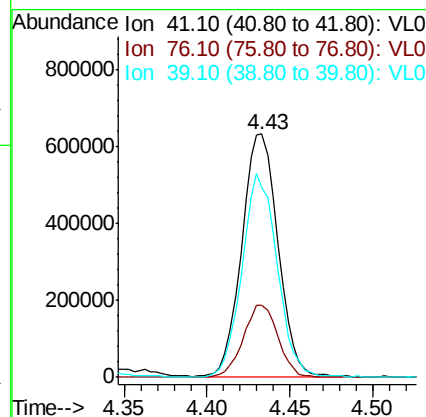
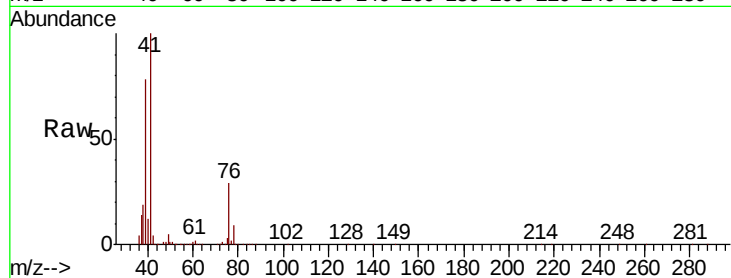
#21
Allvl Chloride
Concen: 10.642 ppbv
RT: 4.43 min Scan# 512
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.9	22.8	34.2
39	82.0	66.0	99.0

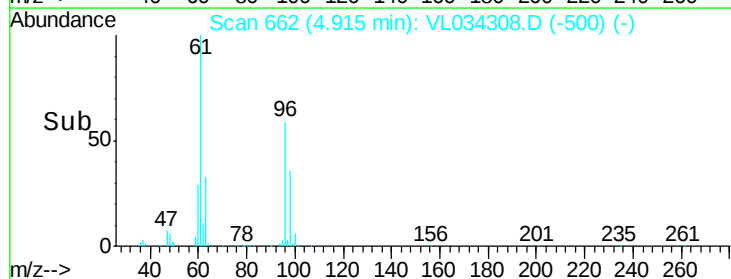
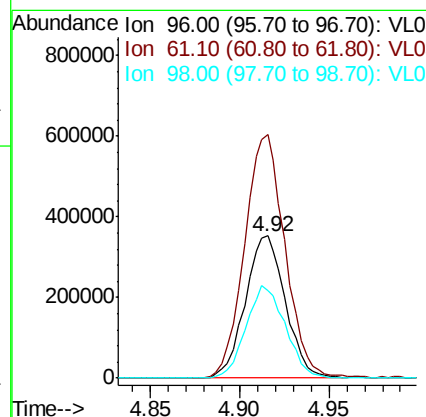
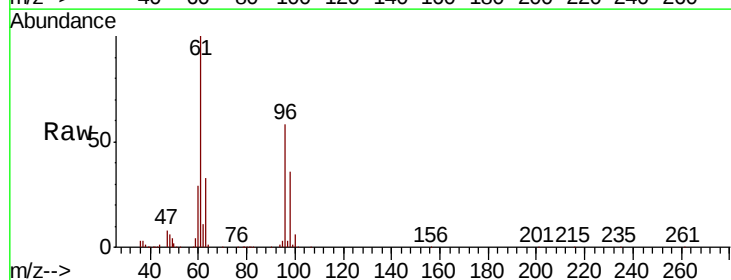
Manual Integrations
APPROVED

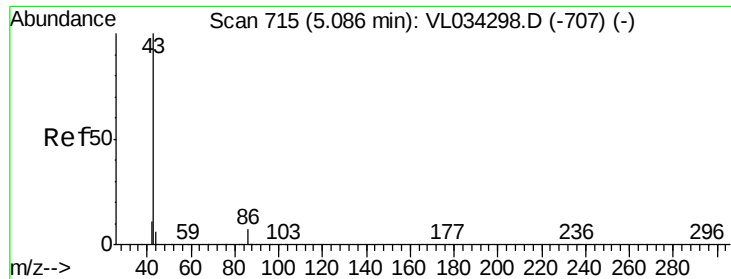
MMDadoda
10/18/2019 3:04:38 PM



#22
trans-1,2-Dichloroethene
Concen: 10.445 ppbv
RT: 4.92 min Scan# 662
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.9	133.8	200.6
98	61.4	49.4	74.0





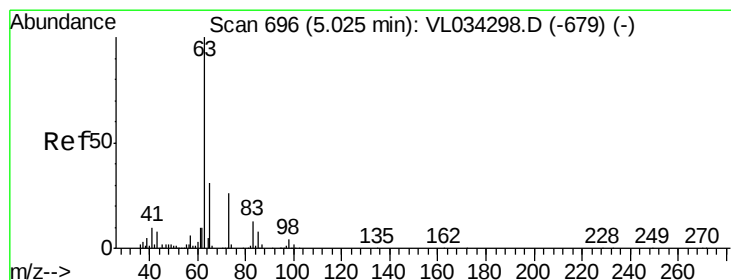
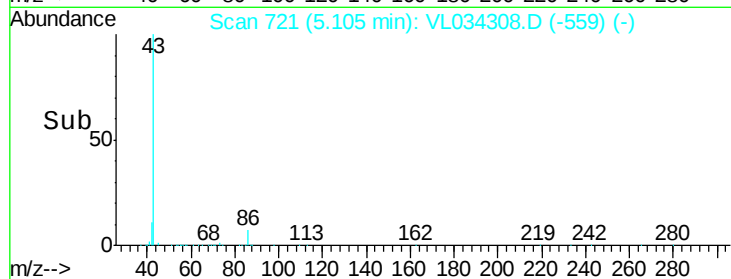
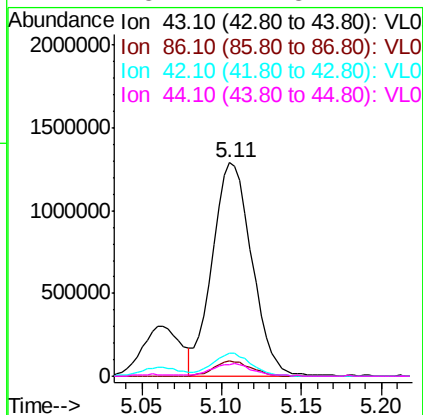
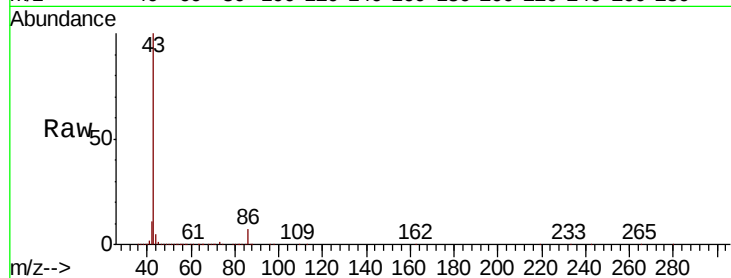
#23
 Vinyl Acetate
 Concen: 10.805 ppbv
 RT: 5.11 min Scan# 721
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.0	5.0	7.4	
42	10.5	8.6	13.0	
44	5.2	4.8	7.2	

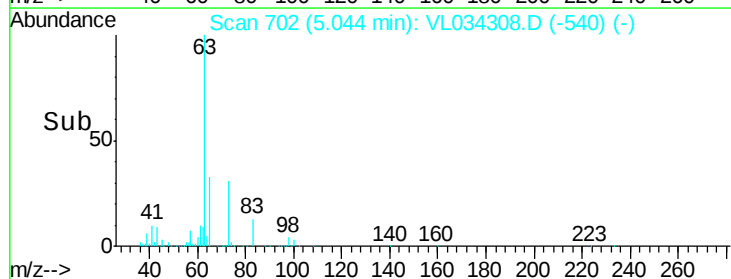
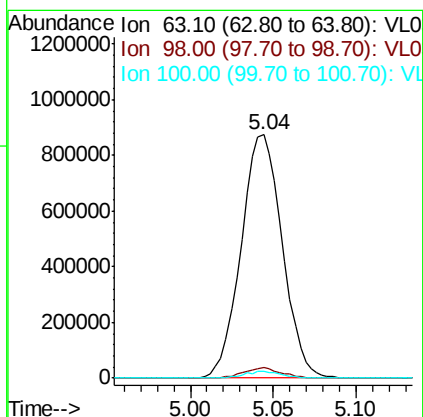
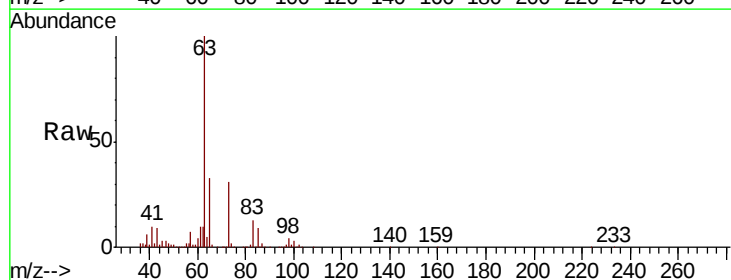
Manual Integrations
 APPROVED

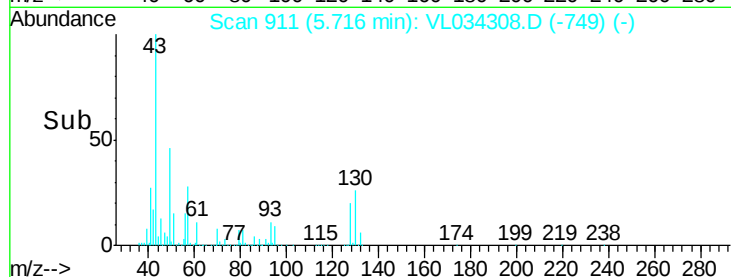
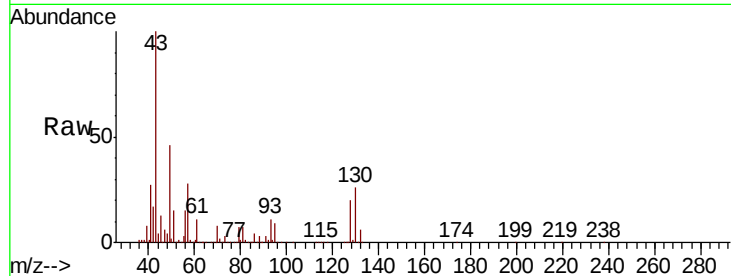
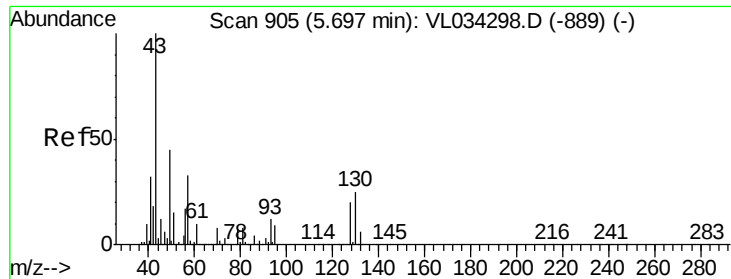
MMDadoda
 10/18/2019 3:04:38 PM



#24
 1,1-Dichloroethane
 Concen: 10.005 ppbv
 RT: 5.04 min Scan# 702
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

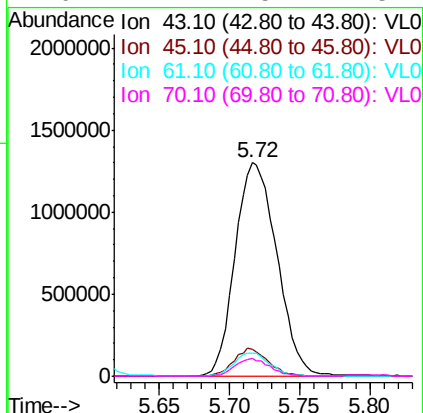
Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.4	2.0	6.0	
100	2.6	1.1	3.5	





#25
Ethyl Acetate
Concen: 9.833 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

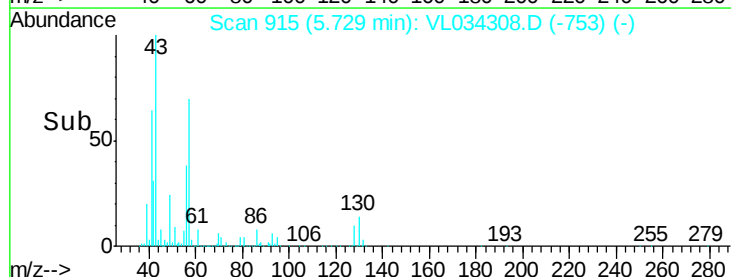
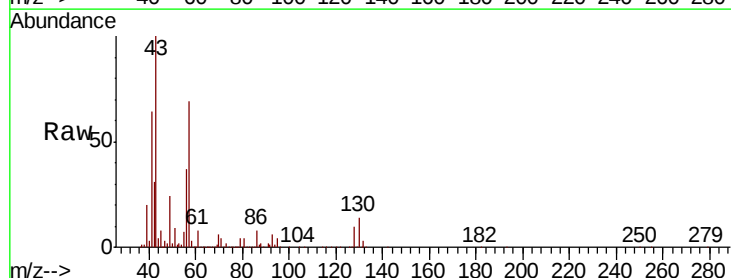
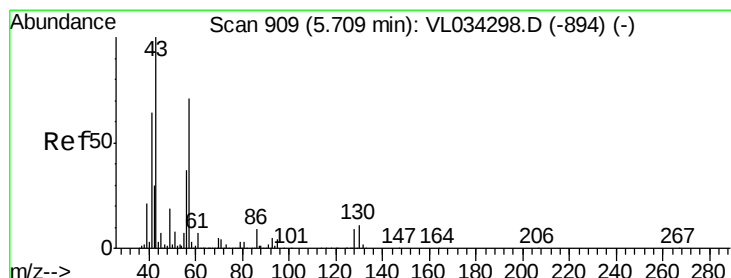
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.8	8.3	12.5	
61	9.6	7.7	11.5	
70	7.1	5.4	8.2	



Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

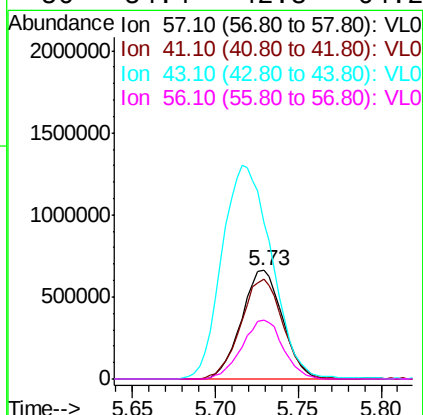
Manual Integrations
APPROVED

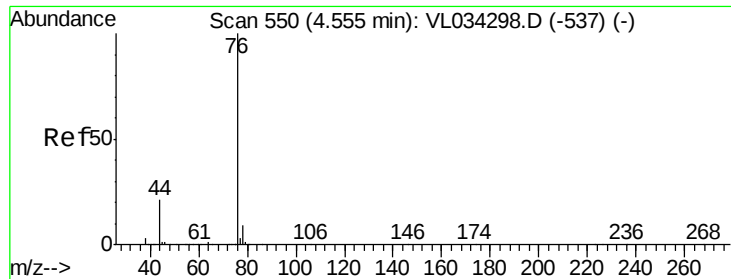
MMDadoda
10/18/2019 3:04:38 PM



#26
Hexane
Concen: 9.765 ppbv
RT: 5.73 min Scan# 915
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	95.3	76.5	114.7	
43	237.1	188.5	282.7	
56	54.4	42.8	64.2	





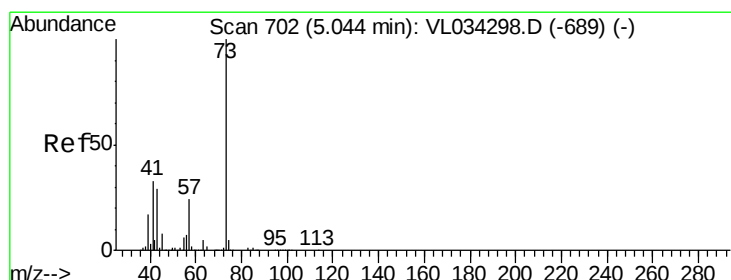
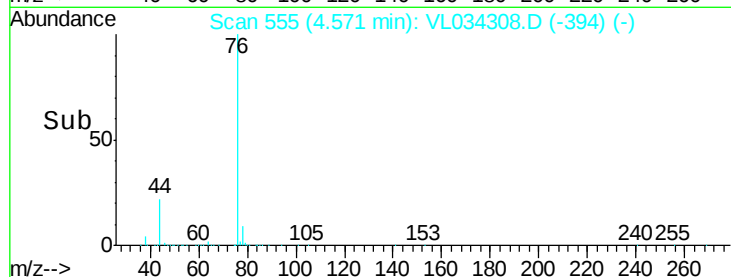
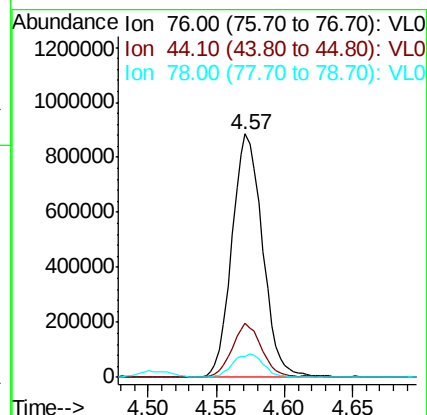
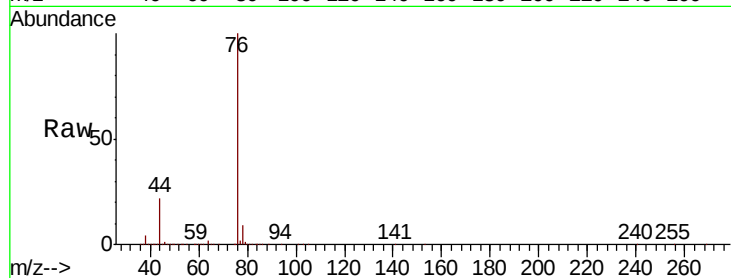
#27
Carbon Disulfide
Concen: 11.405 ppbv
RT: 4.57 min Scan# 555
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	21.4	17.3	25.9
78	9.8	7.8	11.6

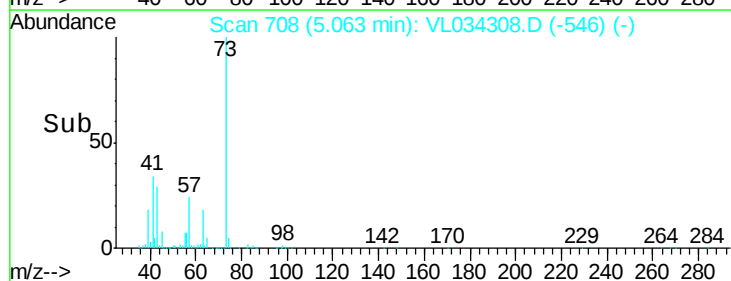
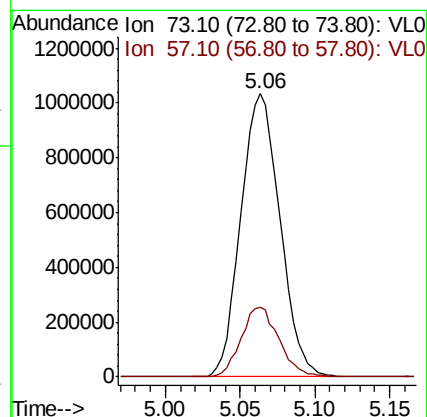
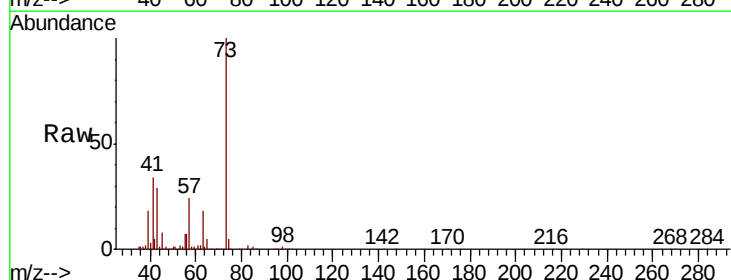
Manual Integrations
APPROVED

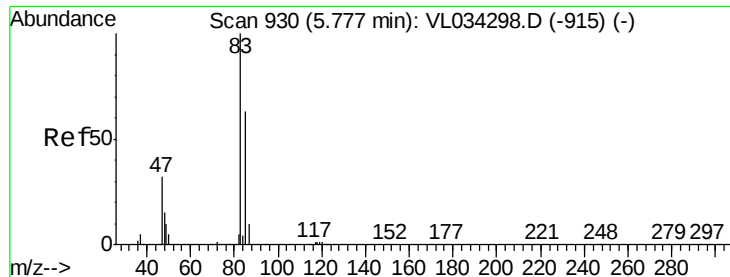
MMDadoda
10/18/2019 3:04:38 PM



#28
Methyl tert-Butyl Ether
Concen: 10.668 ppbv
RT: 5.06 min Scan# 708
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.9	19.2	28.8





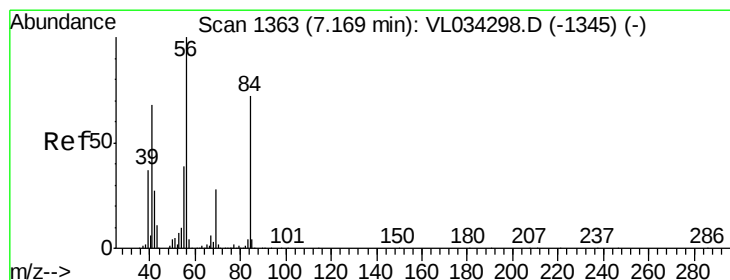
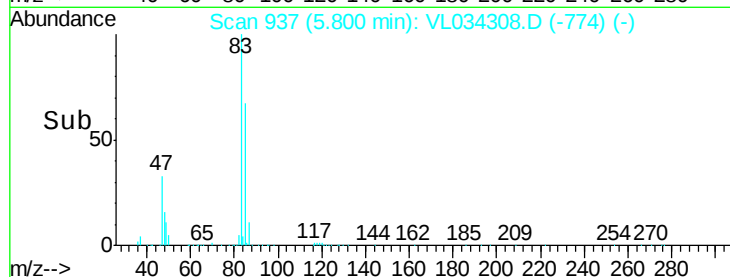
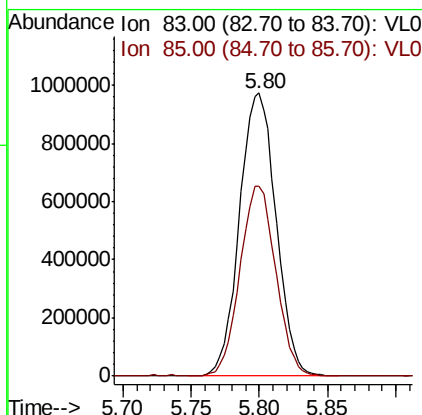
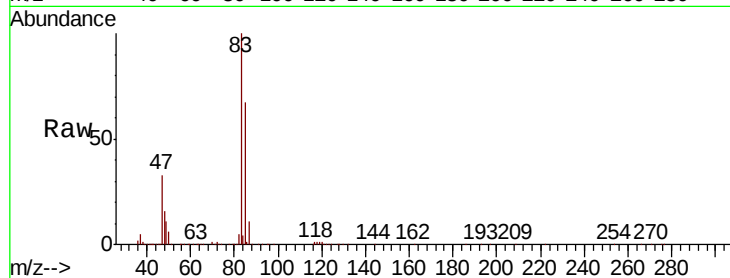
#29
Chloroform
Concen: 9.818 ppbv
RT: 5.80 min Scan# 937
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 83 Resp: 1813042
Ion Ratio Lower Upper
83 100
85 66.9 50.5 75.7

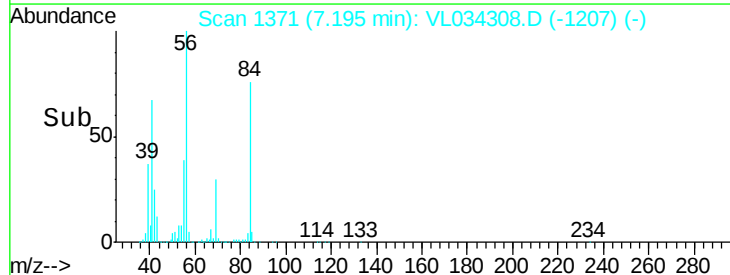
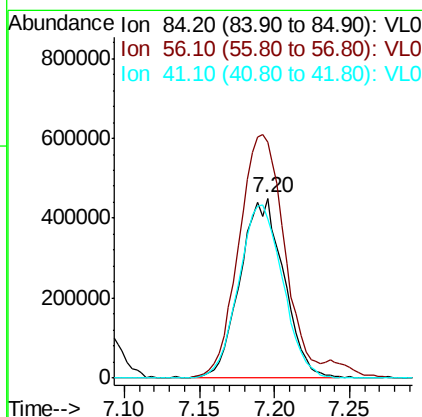
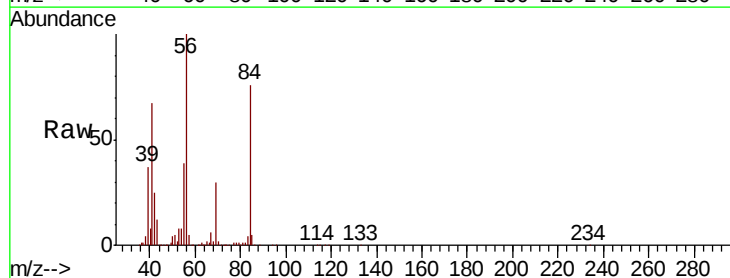
Manual Integrations
APPROVED

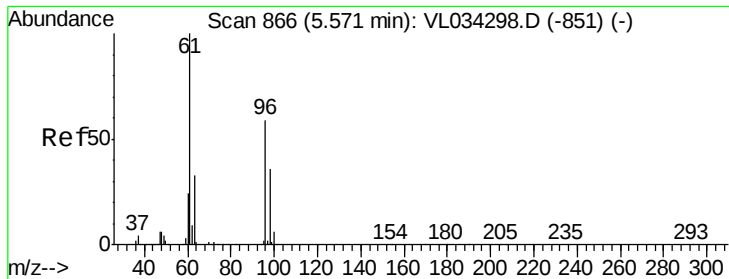
MMDadoda
10/18/2019 3:04:38 PM



#30
Cyclohexane
Concen: 10.601 ppbv m
RT: 7.20 min Scan# 1371
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 84 Resp: 910216
Ion Ratio Lower Upper
84 100
56 147.0 119.4 179.0
41 97.3 78.7 118.1





#31

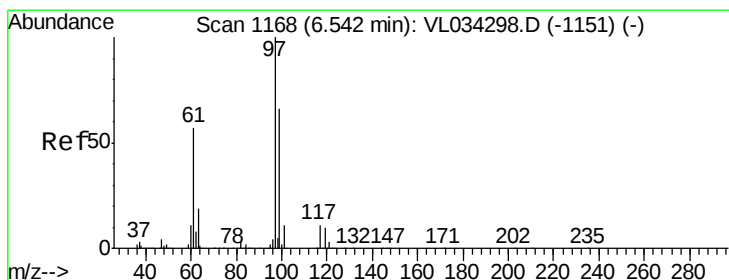
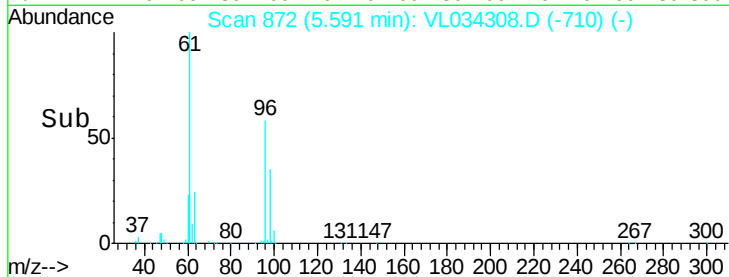
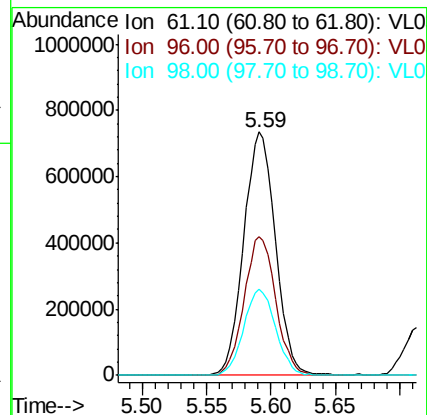
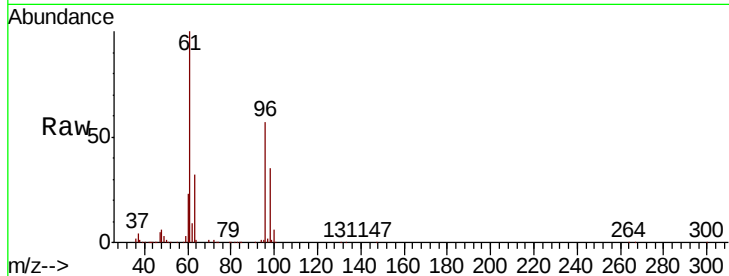
cis-1,2-Dichloroethene
 Concen: 10.618 ppbv
 RT: 5.59 min Scan# 872
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	57.0	47.5	71.3
98	35.3	28.8	43.2

Manual Integrations
 APPROVED

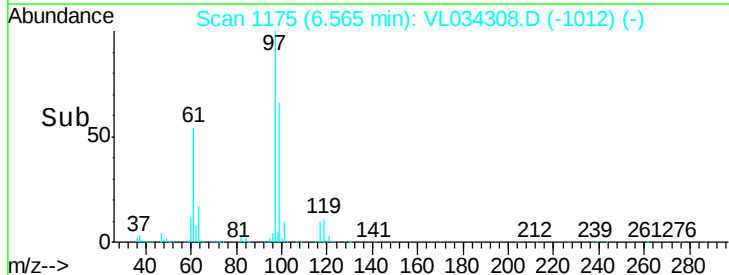
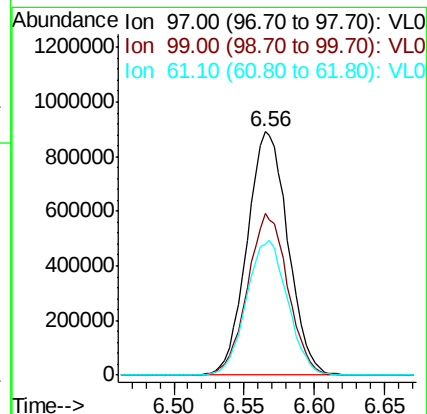
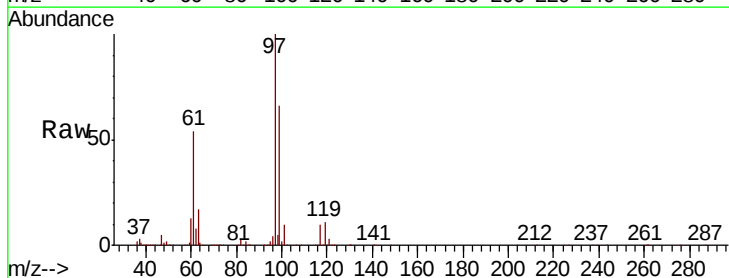
MMDadoda
 10/18/2019 3:04:38 PM

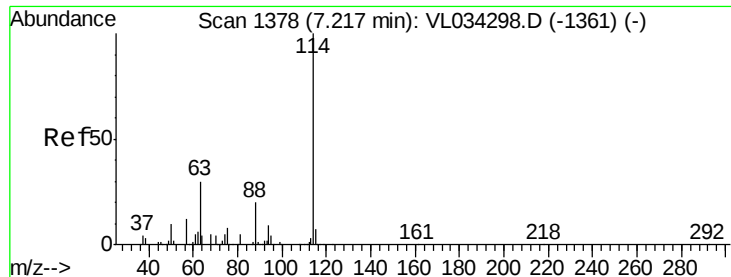


#32

1,1,1-Trichloroethane
 Concen: 10.065 ppbv
 RT: 6.56 min Scan# 1175
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.6	78.8
61	55.7	44.5	66.7





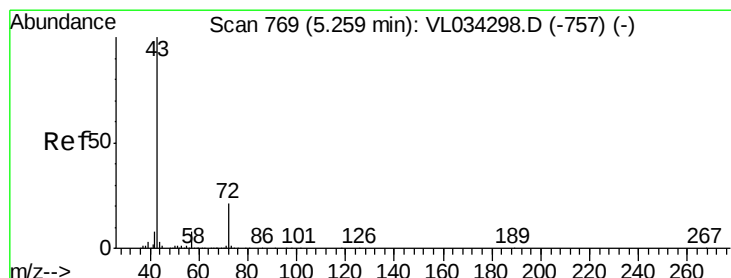
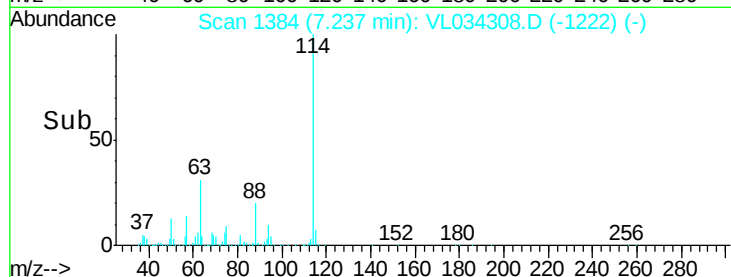
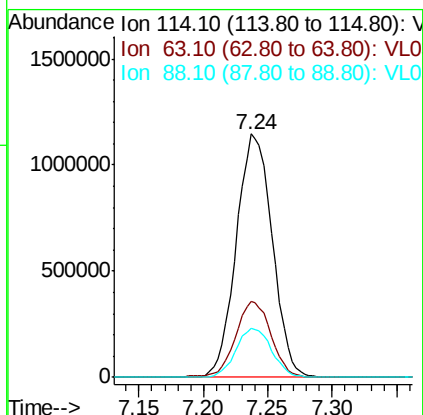
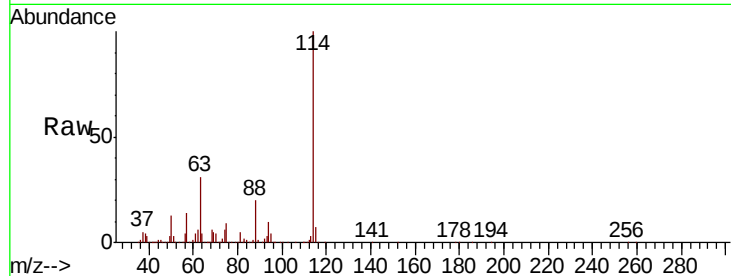
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1384
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.9	25.2	37.8
88	20.0	16.0	24.0

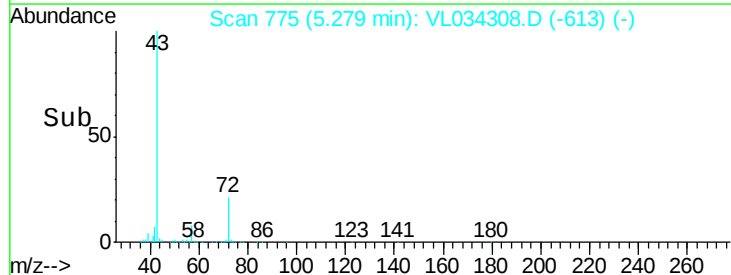
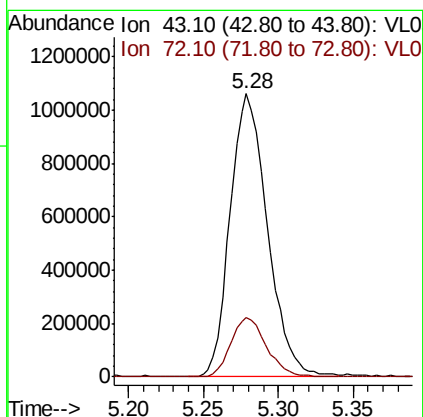
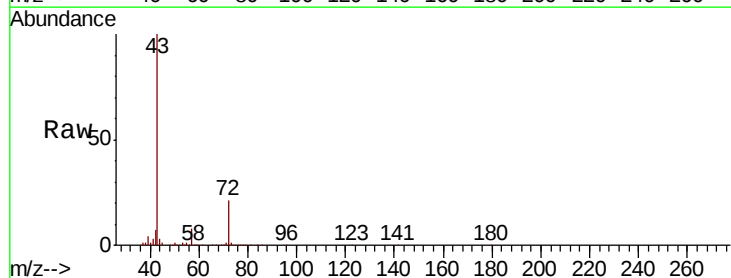
Manual Integrations
 APPROVED

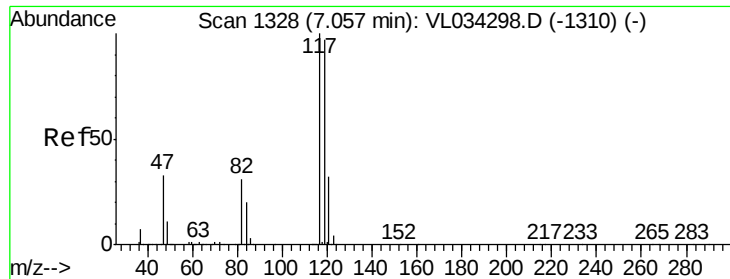
MMDadoda
 10/18/2019 3:04:38 PM



#34
 2-Butanone
 Concen: 10.088 ppbv
 RT: 5.28 min Scan# 775
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.4	16.3	24.5





#35

Carbon Tetrachloride

Concen: 9.735 ppbv

RT: 7.08 min Scan# 1335

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:117 Resp: 1887898

Ion Ratio Lower Upper

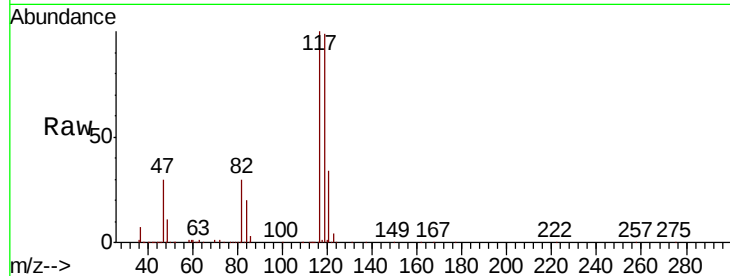
117 100

119 98.9 77.3 115.9

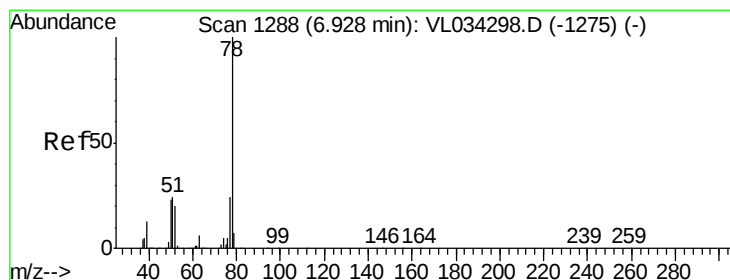
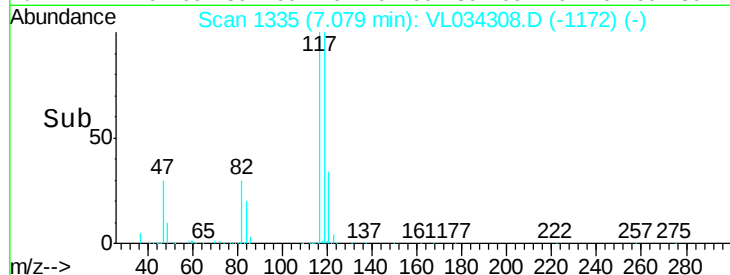
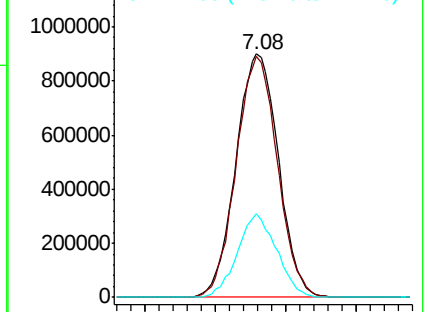
121 34.1 25.5 38.3

Manual Integrations
APPROVED

MMDadoda
10/18/2019 3:04:38 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: 10.176 ppbv

RT: 6.95 min Scan# 1295

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

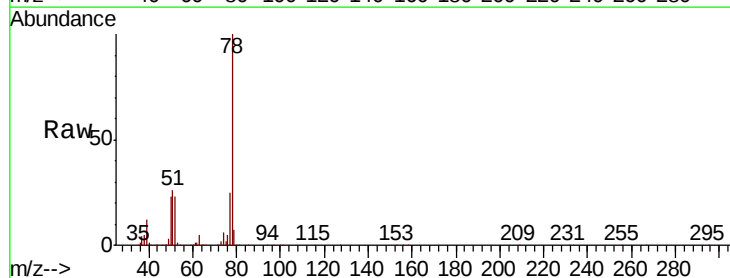
Tgt Ion: 78 Resp: 2173976

Ion Ratio Lower Upper

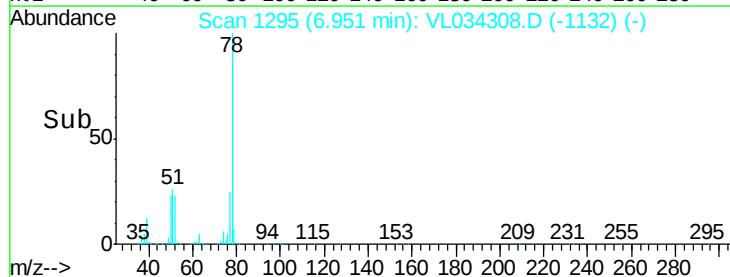
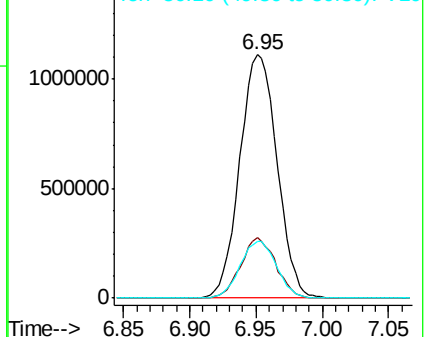
78 100

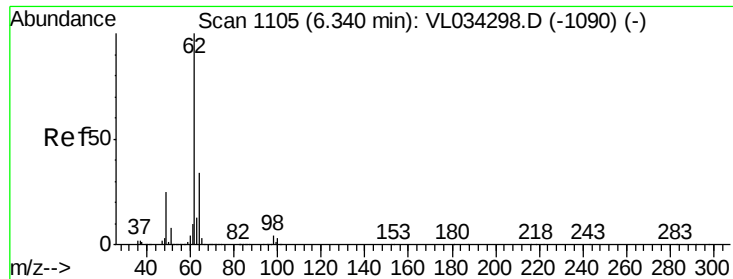
77 24.7 19.0 28.4

50 23.4 18.6 27.8



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





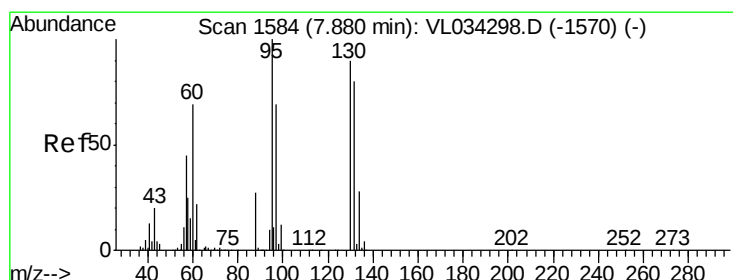
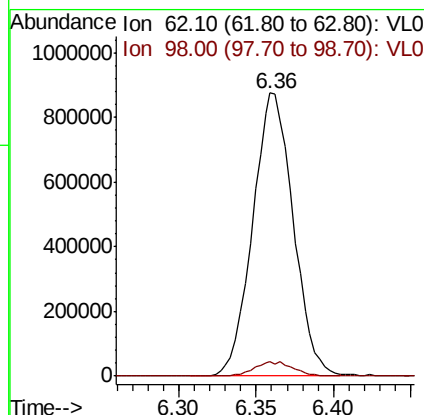
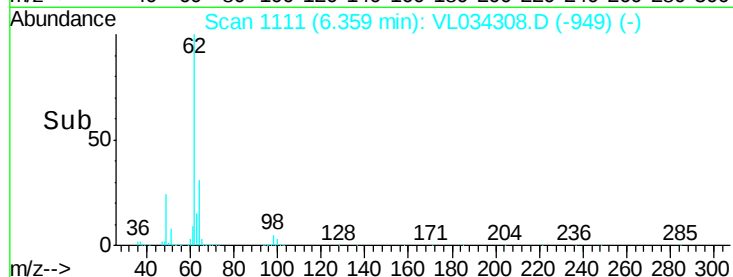
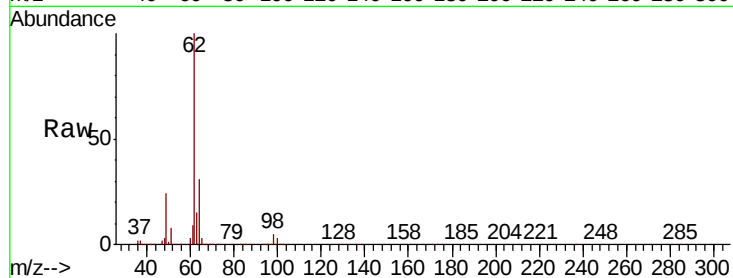
#37
 1,2-Dichloroethane
 Concen: 10.024 ppbv
 RT: 6.36 min Scan# 1111
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion: 62 Resp: 1595942
 Ion Ratio Lower Upper
 62 100
 98 4.9 3.8 5.6

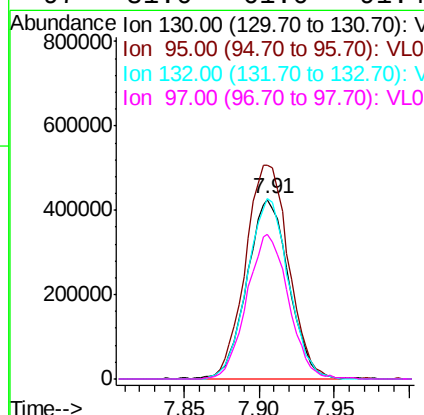
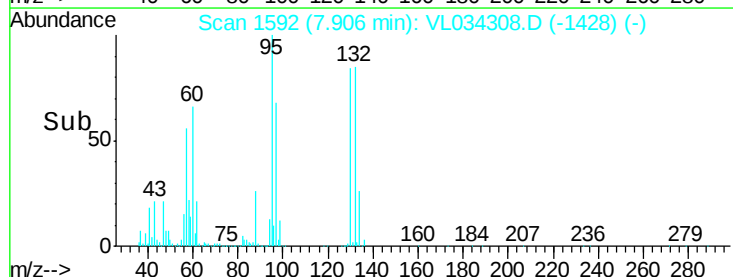
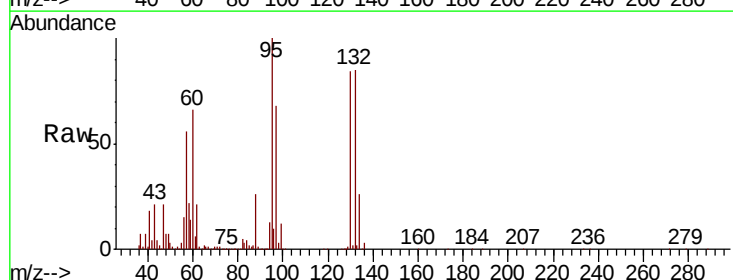
Manual Integrations
 APPROVED

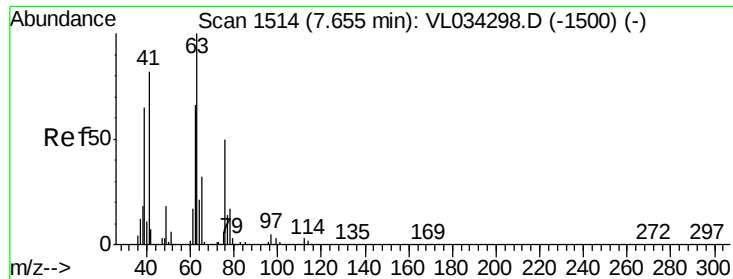
MMDadoda
 10/18/2019 3:04:38 PM



#38
 Trichloroethene
 Concen: 9.602 ppbv
 RT: 7.91 min Scan# 1592
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 130 Resp: 823120
 Ion Ratio Lower Upper
 130 100
 95 118.8 88.6 132.8
 132 100.6 71.2 106.8
 97 81.0 61.0 91.4





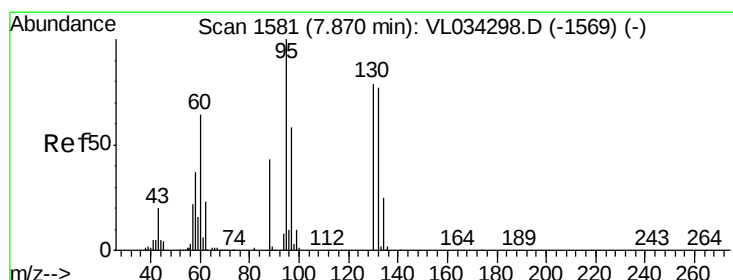
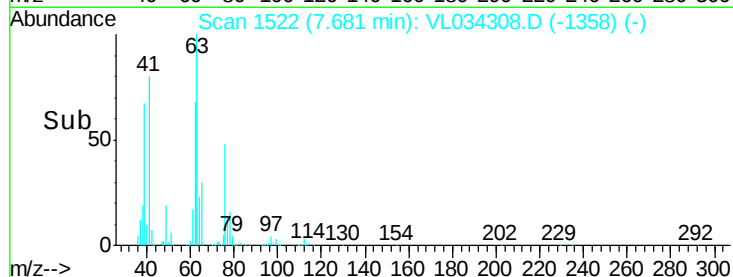
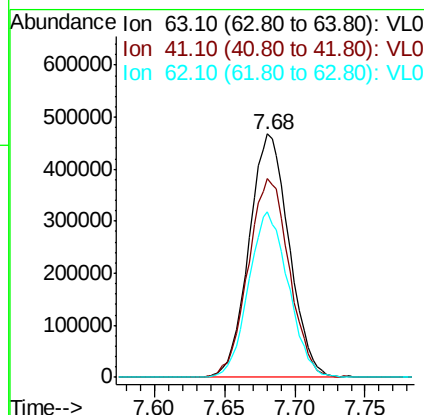
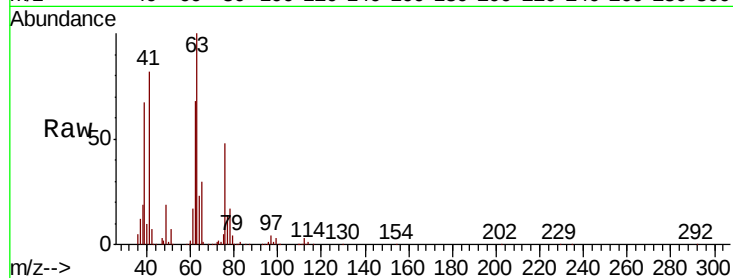
#39
 1,2-Dichloropropane
 Concen: 10.104 ppbv
 RT: 7.68 min Scan# 1522
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	929495		
41	81.4	65.6	98.4	
62	67.8	53.0	79.6	

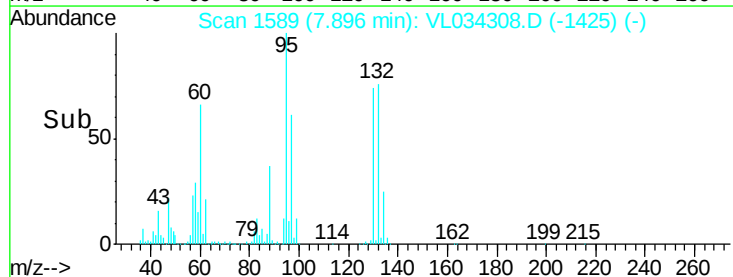
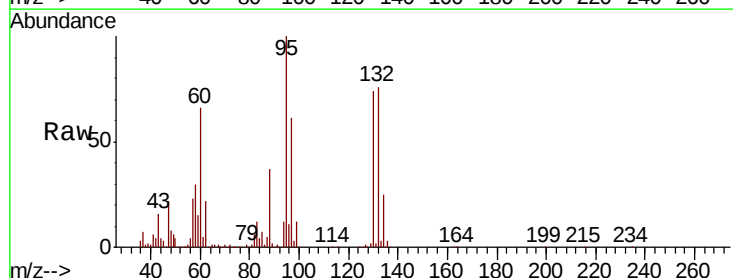
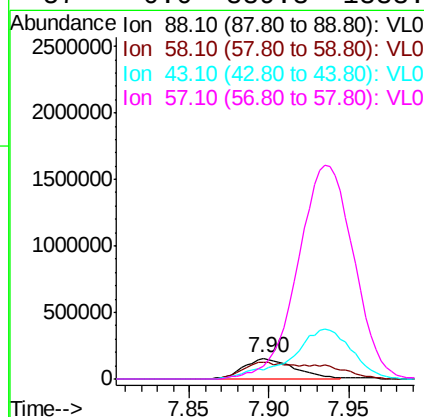
Manual Integrations
 APPROVED

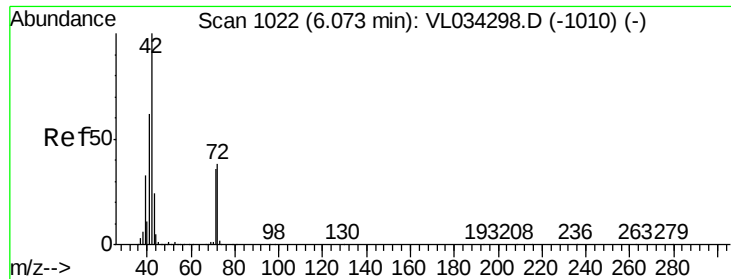
MMDadoda
 10/18/2019 3:04:38 PM



#40
 1,4-Dioxane
 Concen: 10.462 ppbv
 RT: 7.90 min Scan# 1589
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	338216		
58	139.9	110.3	165.5	
43	0.0	228.1	342.1#	
57	0.0	889.3	1333.9#	





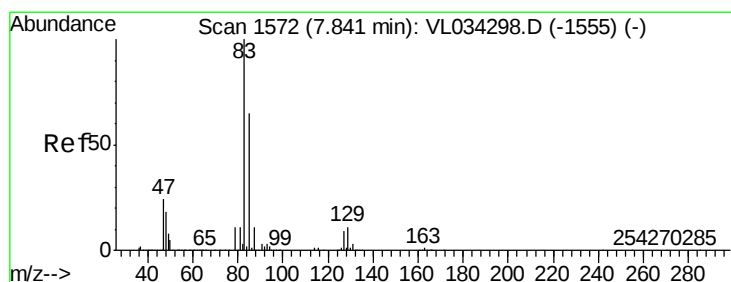
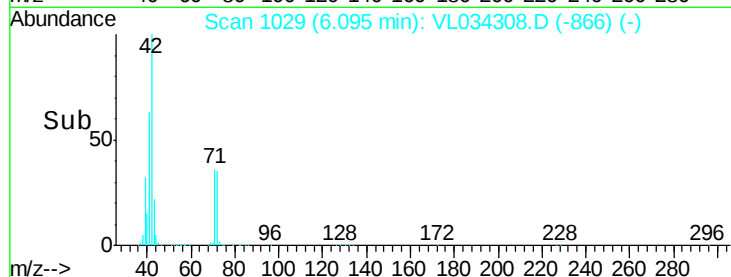
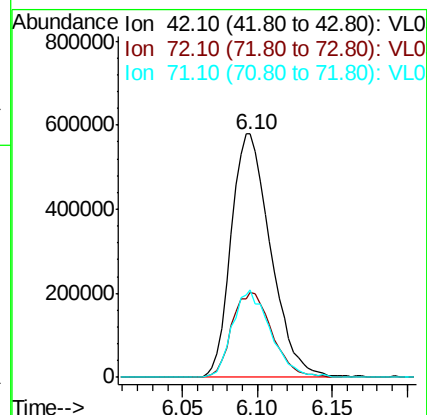
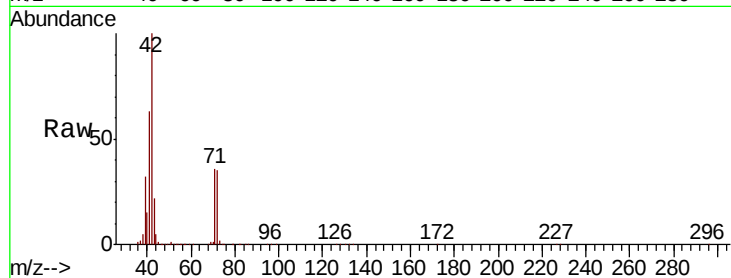
#41
Tetrahydrofuran
Concen: 10.558 ppbv
RT: 6.10 min Scan# 1029
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.6	28.0	42.0
71	34.8	27.3	40.9

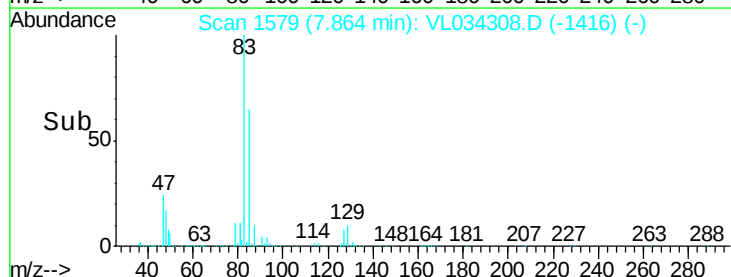
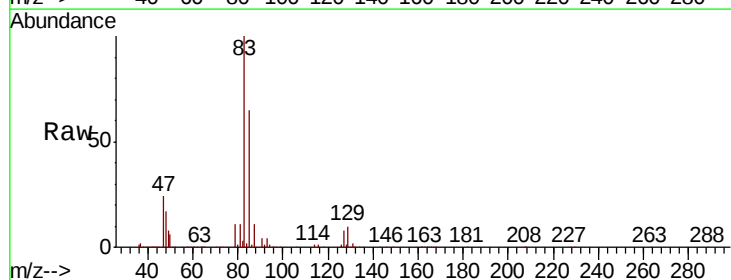
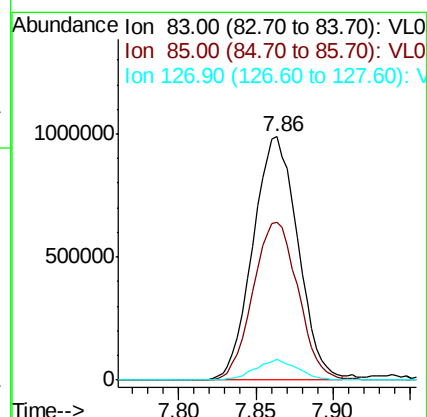
Manual Integrations
APPROVED

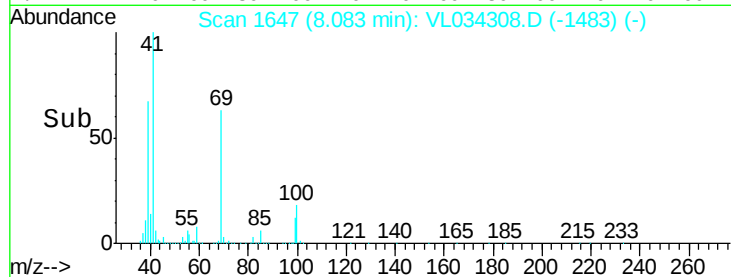
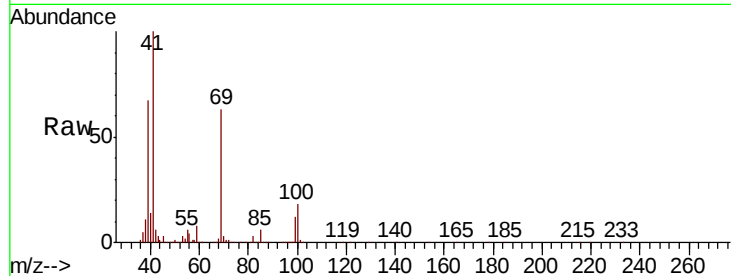
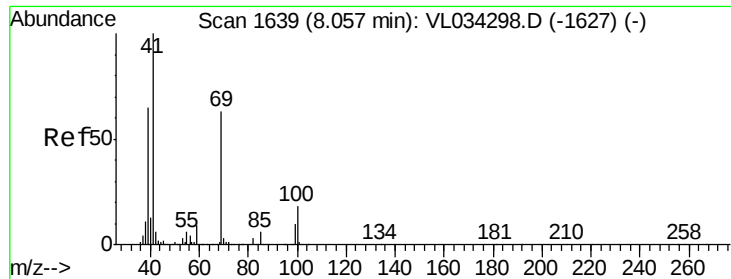
MMDadoda
10/18/2019 3:04:38 PM



#42
Bromodichloromethane
Concen: 10.265 ppbv
RT: 7.86 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.8	77.6
127	8.3	7.0	10.6





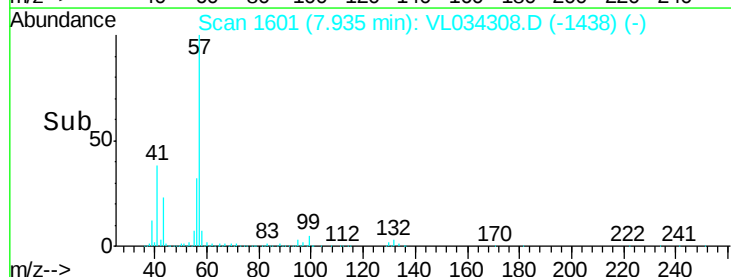
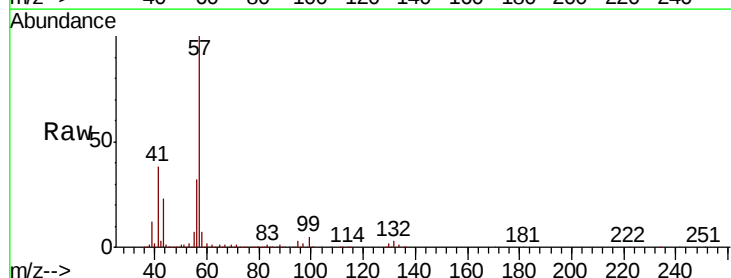
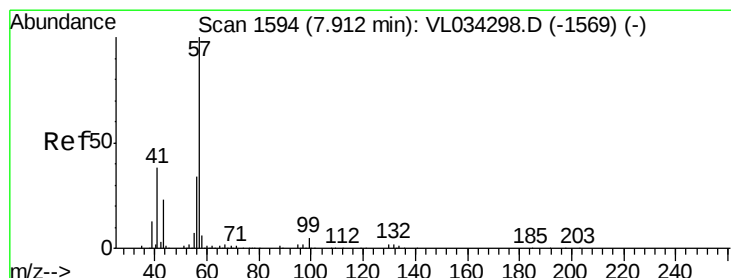
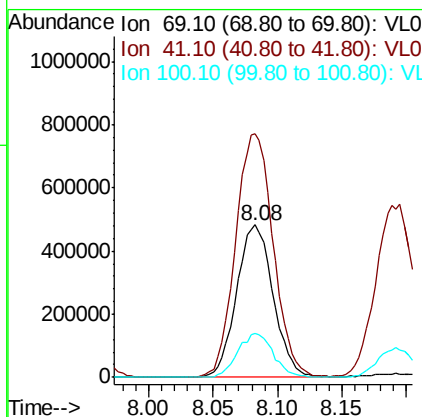
#43
Methvl Methacrilate
Concen: 10.813 ppbv
RT: 8.08 min Scan# 1647
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tot Ion	Ratio	Lower	Upper
69	100		
41	163.6	132.1	198.1
100	28.2	23.2	34.8

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

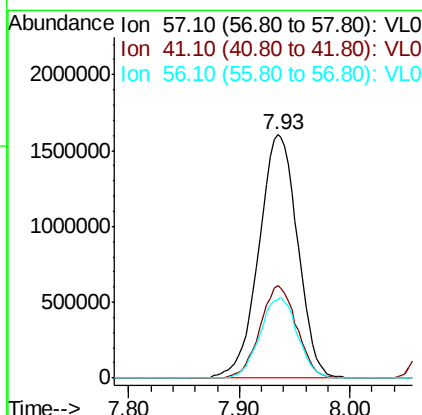
Manual Integrations
APPROVED

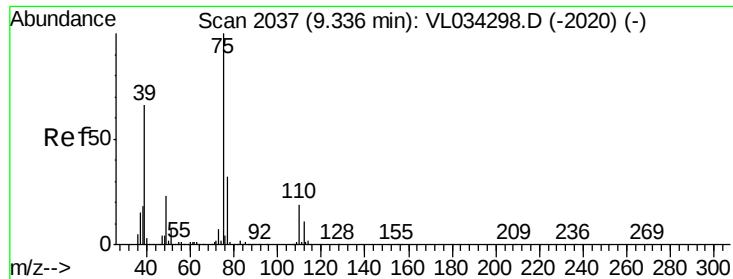
MMDadoda
10/18/2019 3:04:38 PM



#44
2,2,4-Trimethylpentane
Concen: 9.896 ppbv
RT: 7.93 min Scan# 1601
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.9	29.3	43.9
56	32.0	25.3	37.9





#45

t-1,3-Dichloropropene

Concen: 11.847 ppbv

RT: 9.36 min Scan# 2044

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 75 Resp: 1275376

Ion Ratio Lower Upper

75 100

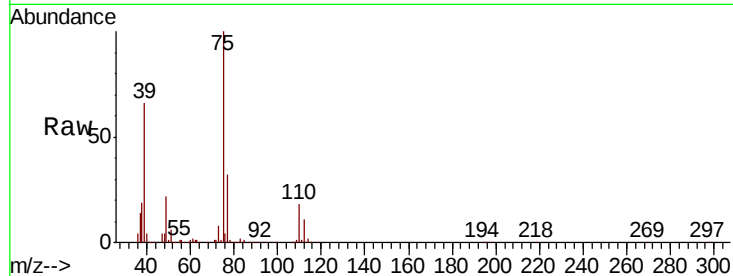
77 31.8 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

10/18/2019 3:04:38 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.36

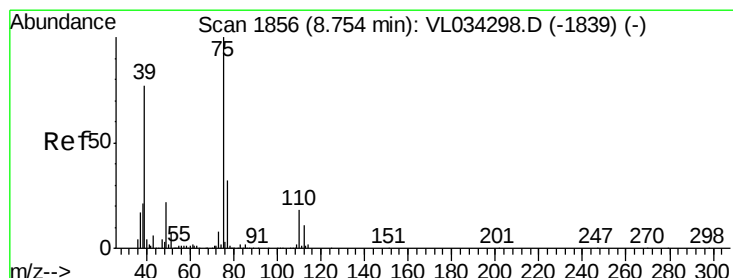
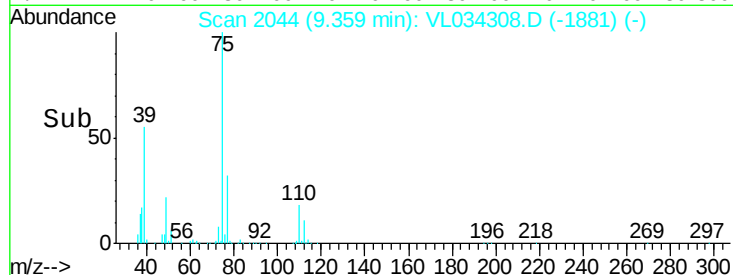
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.719 ppbv

RT: 8.78 min Scan# 1864

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

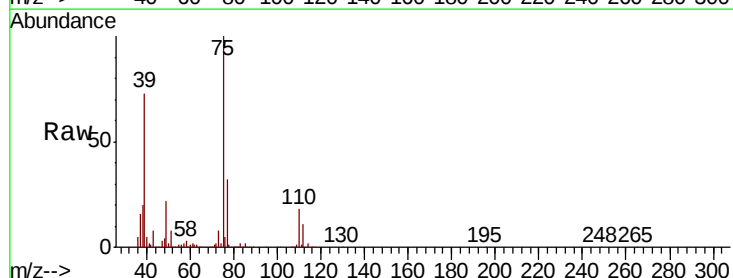
Tgt Ion: 75 Resp: 1449348

Ion Ratio Lower Upper

75 100

39 72.7 61.2 91.8

77 31.6 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1000000

800000

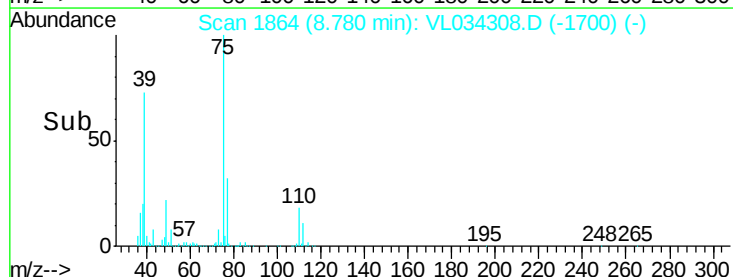
600000

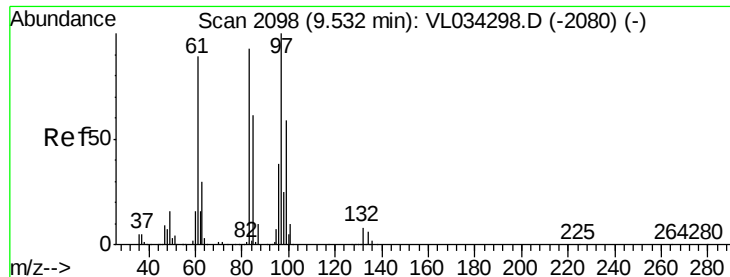
400000

200000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 9.848 ppbv

RT: 9.56 min Scan# 2106

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

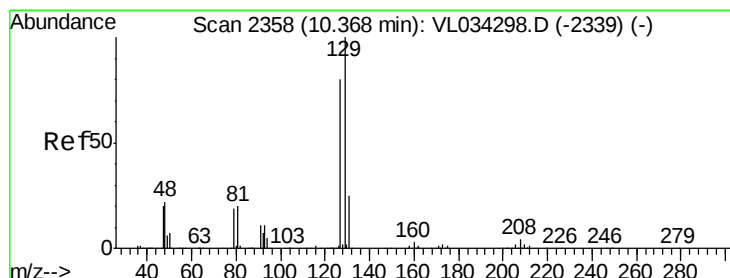
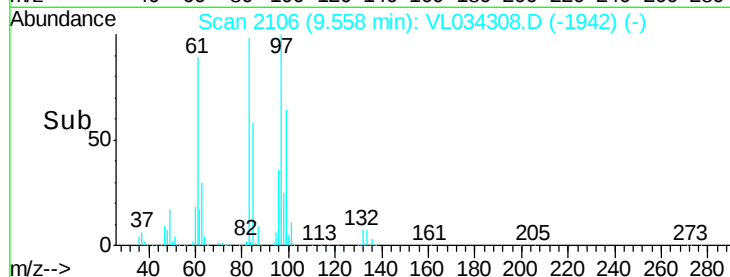
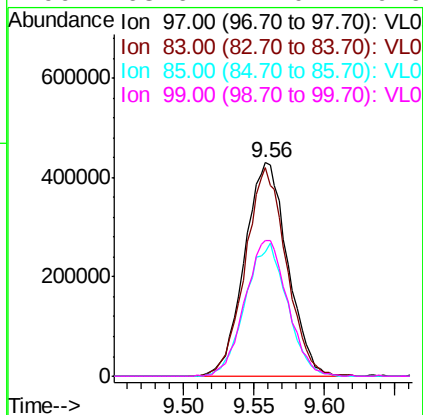
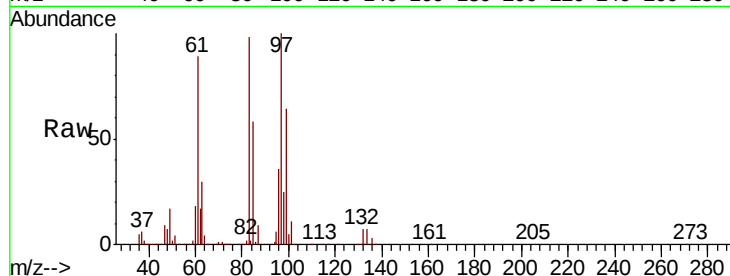
ClientSampleId :

VL1016ABS01

Tot Ion:	97	Resp:	917571
Ion Ratio	Lower	Upper	
97	100		
83	97.7	74.2	111.2
85	58.2	48.6	73.0
99	63.6	47.0	70.6

Manual Integrations
APPROVED

MMDadoda
10/18/2019 3:04:38 PM



#48

Dibromochloromethane

Concen: 10.812 ppbv

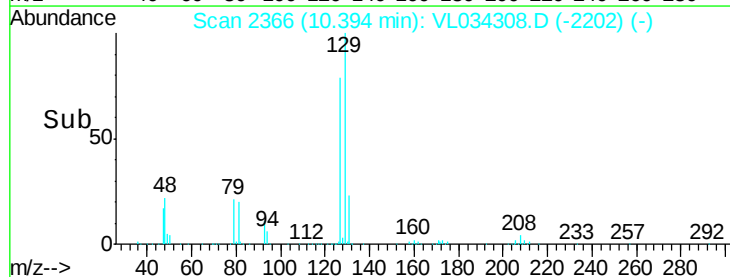
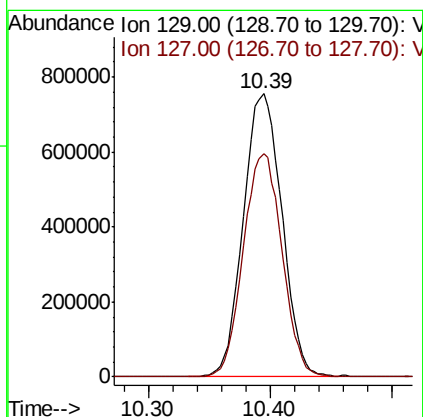
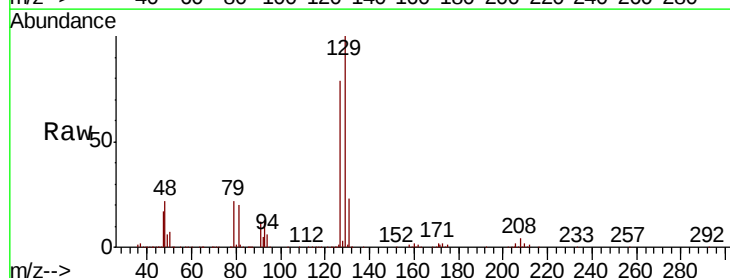
RT: 10.39 min Scan# 2366

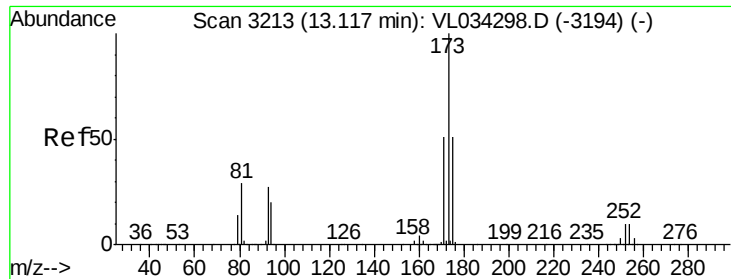
Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Tgt Ion:	129	Resp:	1652506
Ion Ratio	Lower	Upper	
129	100		
127	79.1	39.7	119.1





#49

Bromoform

Concen: 11.249 ppbv

RT: 13.15 min Scan# 3222

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:173 Resp: 1523601

Ion Ratio Lower Upper

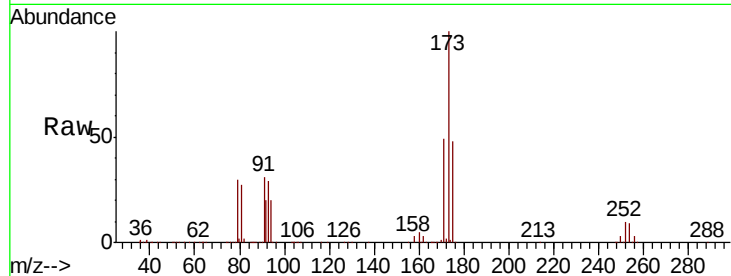
173 100

175 49.7 39.8 59.6

171 52.2 41.8 62.6

Manual Integrations
APPROVED

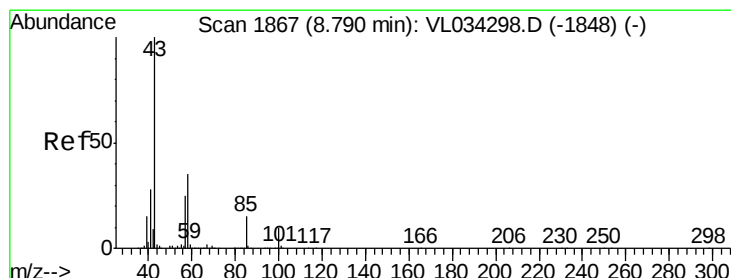
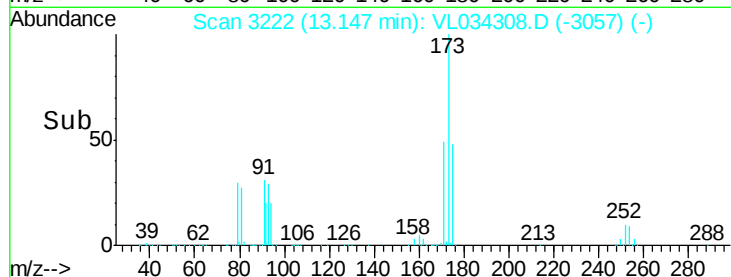
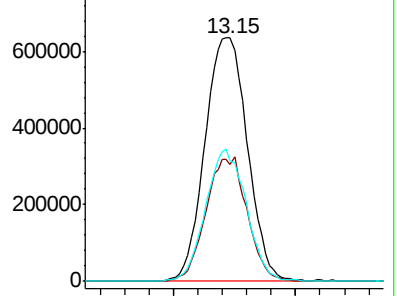
MMDadoda
10/18/2019 3:04:38 PM



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: 10.422 ppbv

RT: 8.81 min Scan# 1874

Delta R.T. 0.02 min

Lab File: VL034308.D

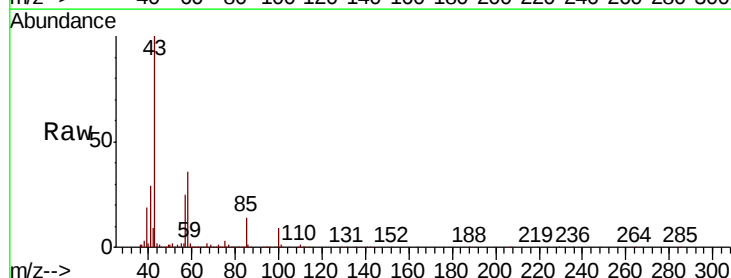
Acq: 16 Oct 2019 21:25

Tgt Ion: 43 Resp: 2715266

Ion Ratio Lower Upper

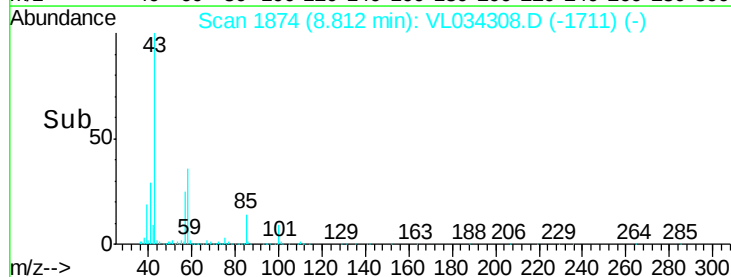
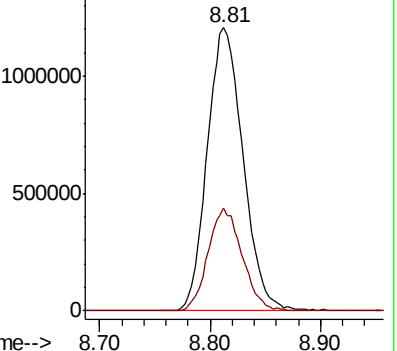
43 100

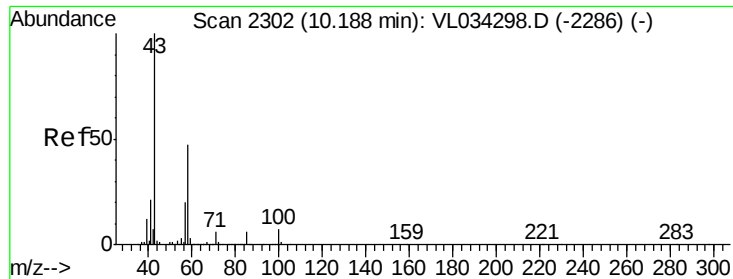
58 34.7 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





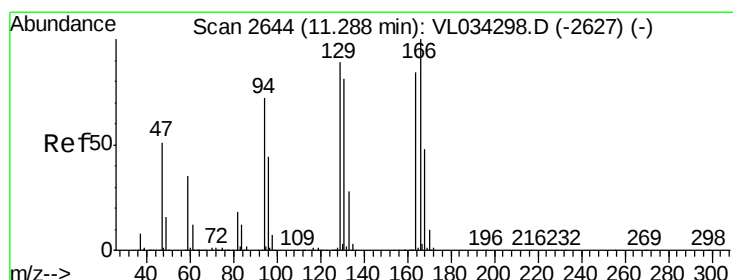
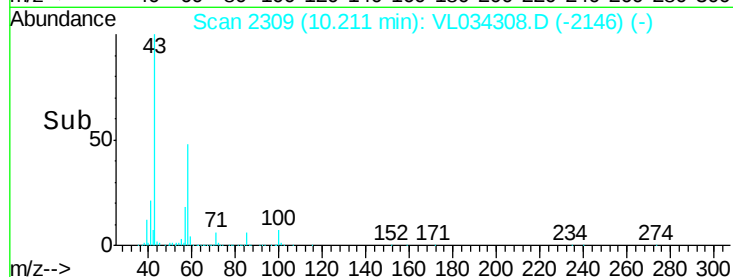
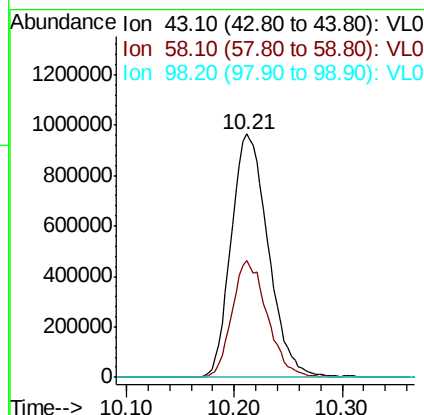
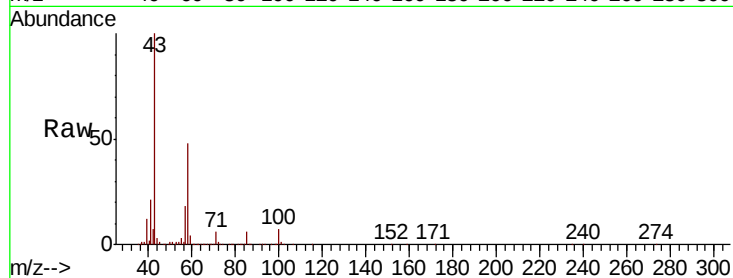
#51
2-Hexanone
Concen: 10.828 ppbv
RT: 10.21 min Scan# 2309
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 43 Resp: 2312670
Ion Ratio Lower Upper
43 100
58 45.7 37.0 55.6
98 0.3 0.2 0.2#

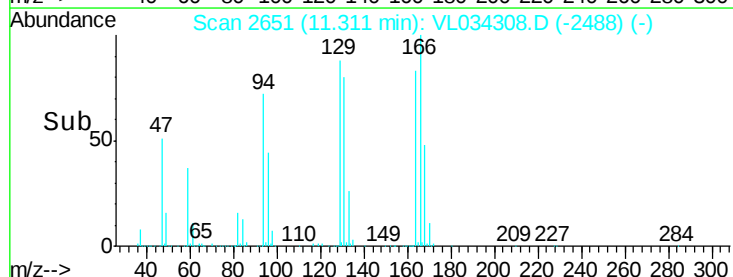
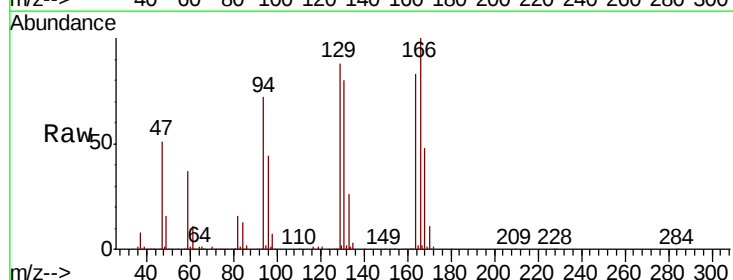
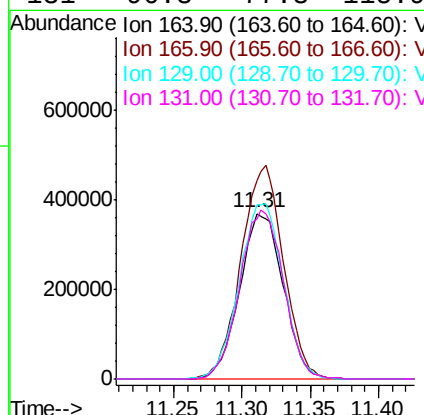
Manual Integrations
APPROVED

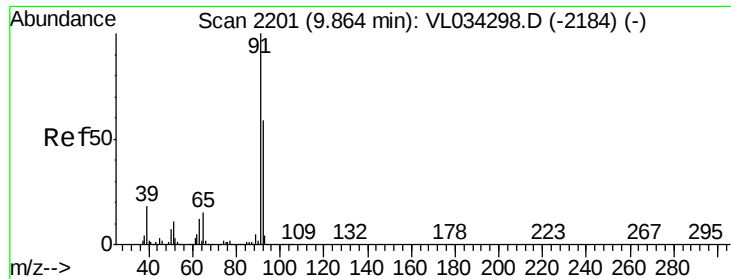
MMDadoda
10/18/2019 3:04:38 PM



#52
Tetrachloroethene
Concen: 9.738 ppbv
RT: 11.31 min Scan# 2651
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 164 Resp: 815464
Ion Ratio Lower Upper
164 100
166 120.5 95.3 142.9
129 105.4 84.5 126.7
131 96.3 77.3 115.9





#53

Toluene

Concen: 10.582 ppbv

RT: 9.89 min Scan# 2208

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 91 Resp: 2494730

Ion Ratio Lower Upper

91 100

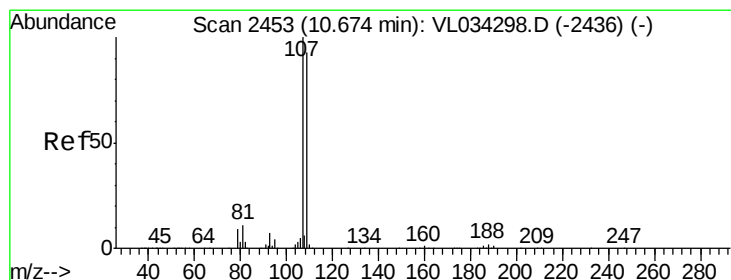
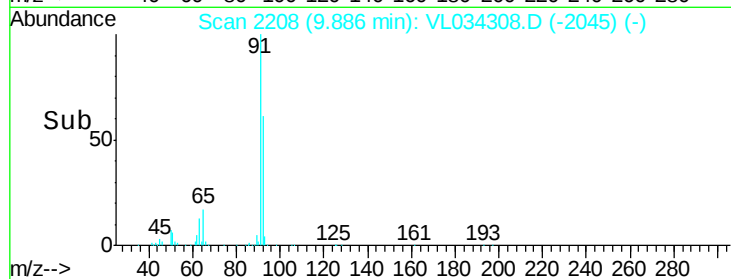
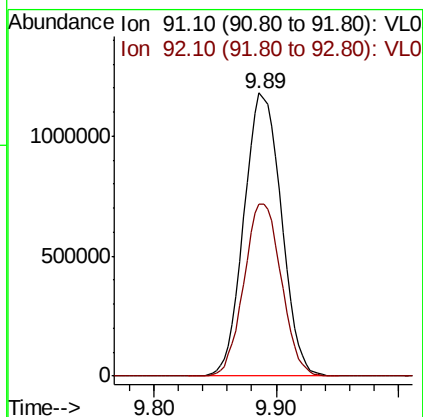
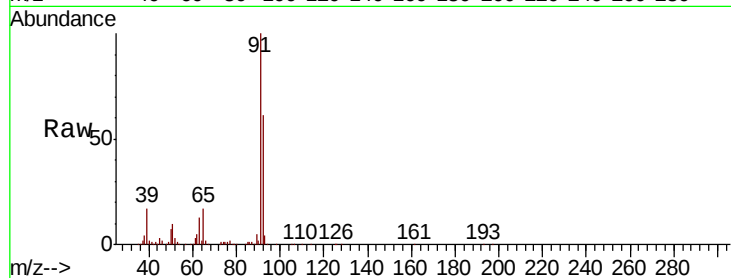
92 60.8 48.4 72.6

Manual Integrations

APPROVED

MMDadoda

10/18/2019 3:04:38 PM



#54

1,2-Dibromoethane

Concen: 10.182 ppbv

RT: 10.70 min Scan# 2462

Delta R.T. 0.03 min

Lab File: VL034308.D

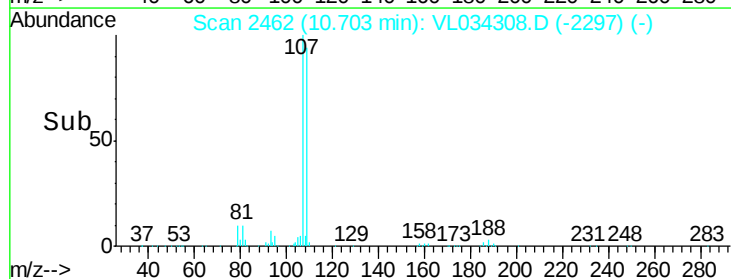
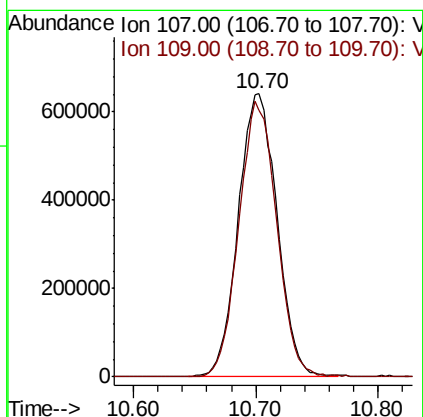
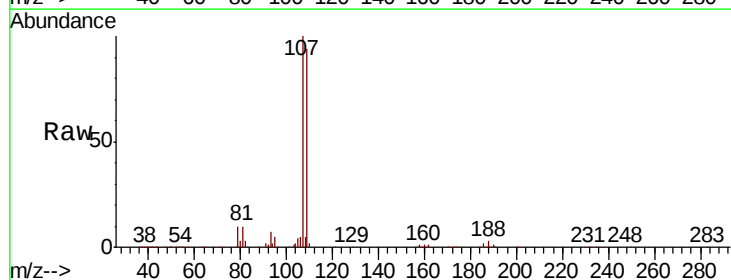
Acq: 16 Oct 2019 21:25

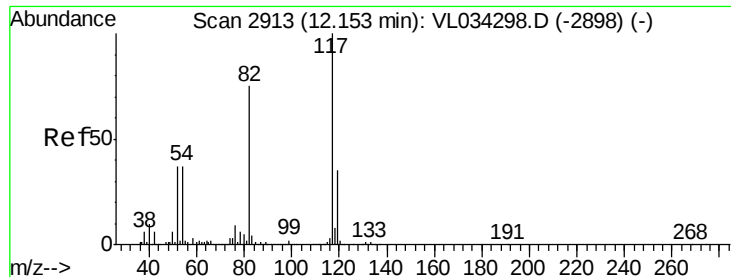
Tgt Ion: 107 Resp: 1406183

Ion Ratio Lower Upper

107 100

109 94.1 74.6 112.0





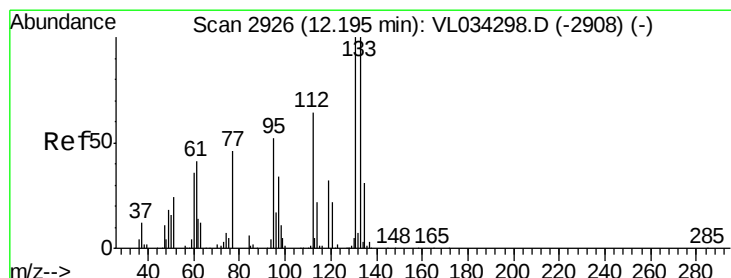
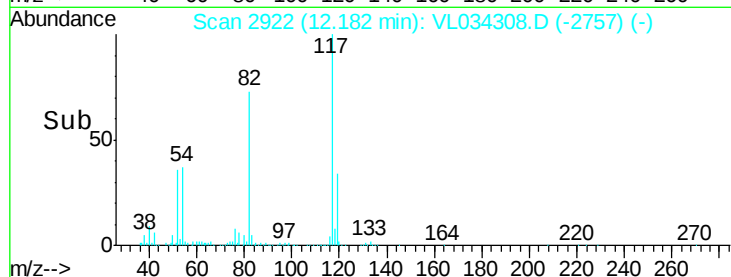
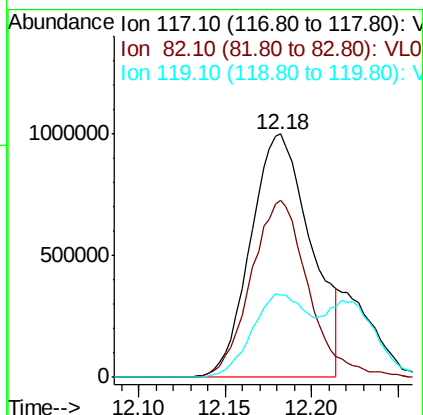
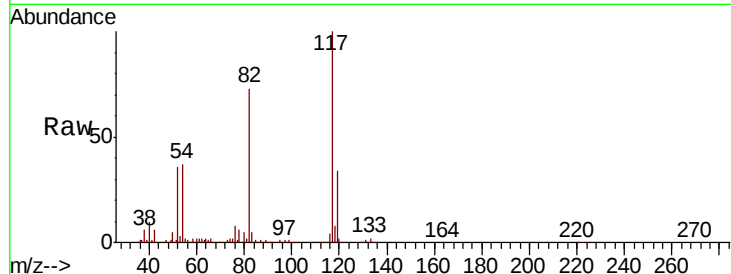
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.18 min Scan# 2922
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.5	55.5	83.3
119	33.1	26.5	39.7

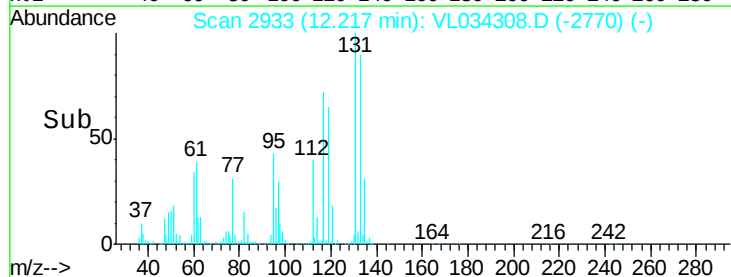
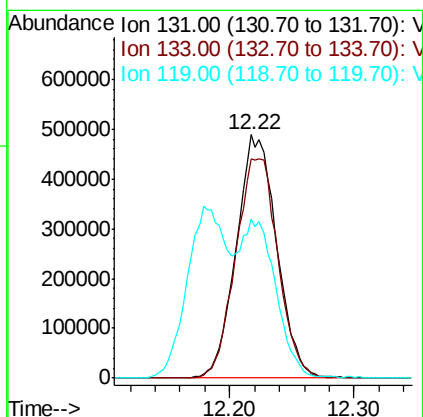
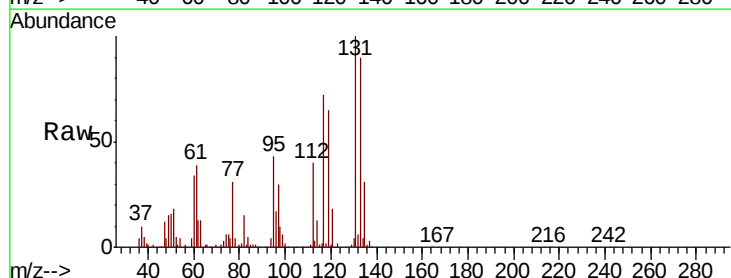
Manual Integrations
APPROVED

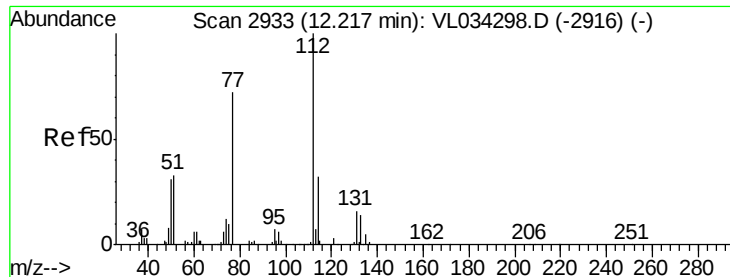
MMDadoda
10/18/2019 3:04:38 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.782 ppbv m
RT: 12.22 min Scan# 2933
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	77.1	115.7#
119	0.0	49.0	73.4#





#57

Chlorobenzene

Concen: 9.386 ppbv

RT: 12.24 min Scan# 2940

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:112 Resp: 1911309

Ion Ratio Lower Upper

112 100

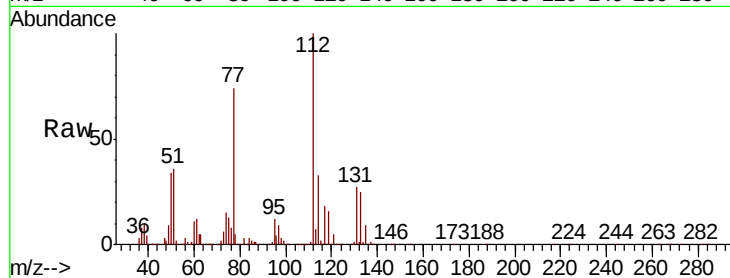
77 73.9 58.6 88.0

114 33.0 28.6 35.0

Manual Integrations
APPROVED

MMDadoda

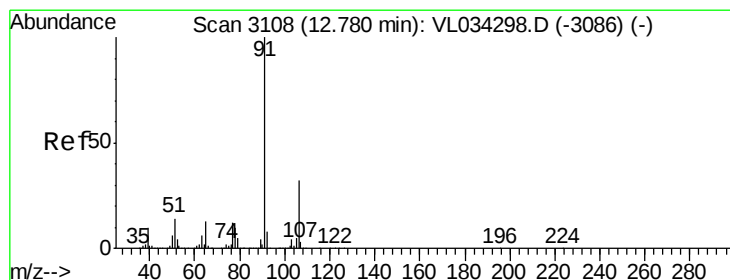
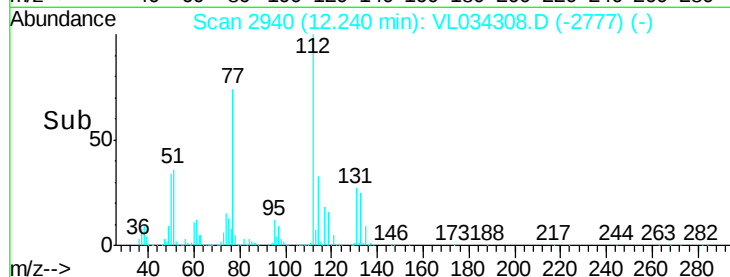
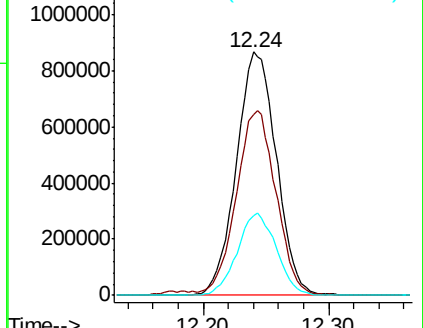
10/18/2019 3:04:38 PM



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: 10.167 ppbv

RT: 12.81 min Scan# 3116

Delta R.T. 0.03 min

Lab File: VL034308.D

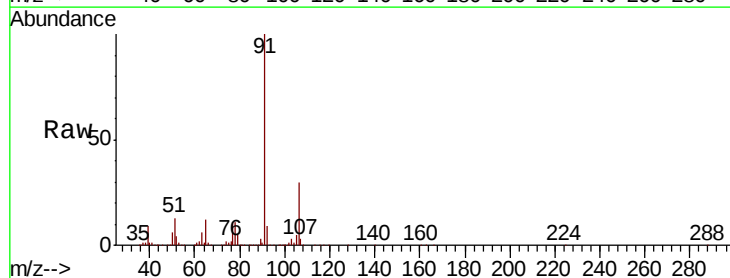
Acq: 16 Oct 2019 21:25

Tgt Ion: 91 Resp: 3469170

Ion Ratio Lower Upper

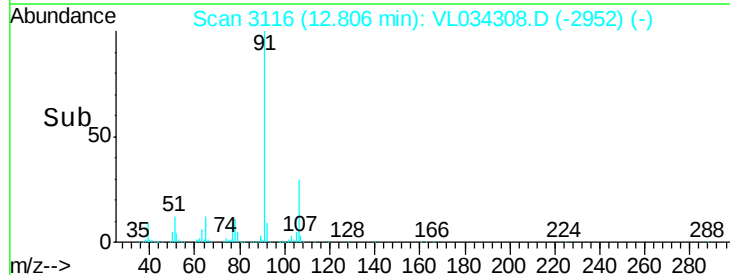
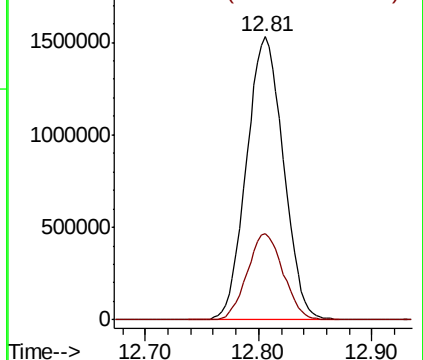
91 100

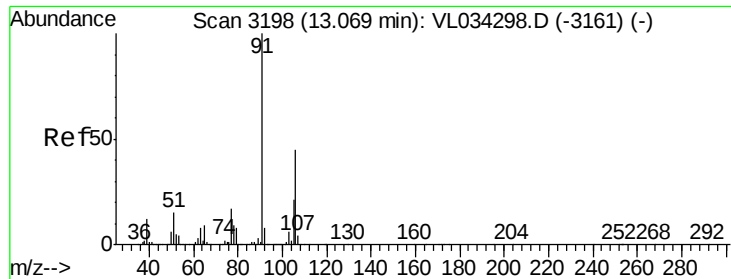
106 30.3 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





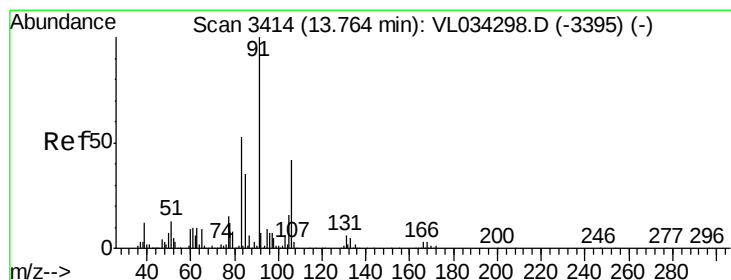
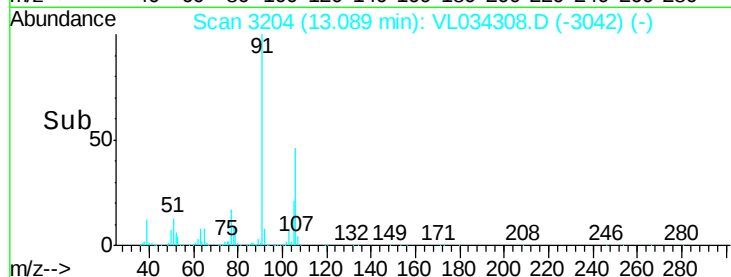
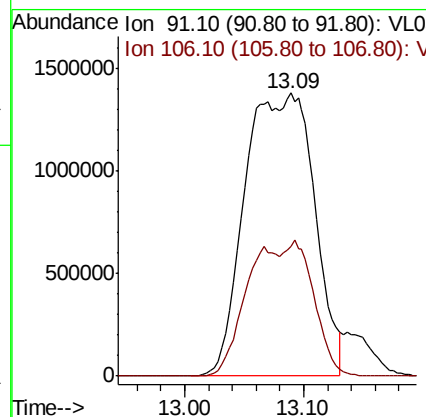
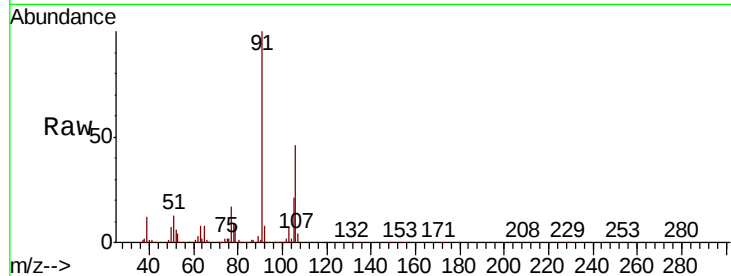
#59
m/p-Xylene
Concen: 19.064 ppbv m
RT: 13.09 min Scan# 3204
Delta R.T. 0.02 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 91 Resp: 5635940
Ion Ratio Lower Upper
91 100
106 45.0 35.4 53.2

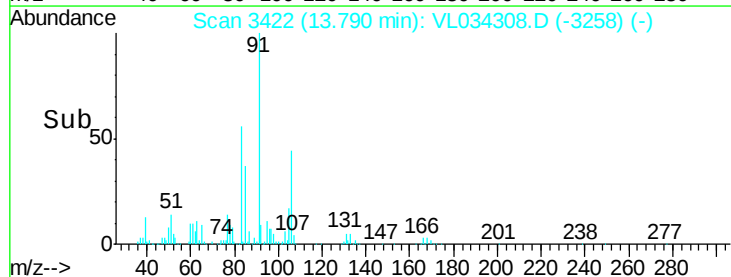
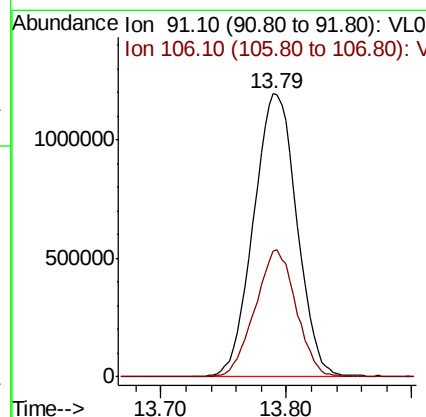
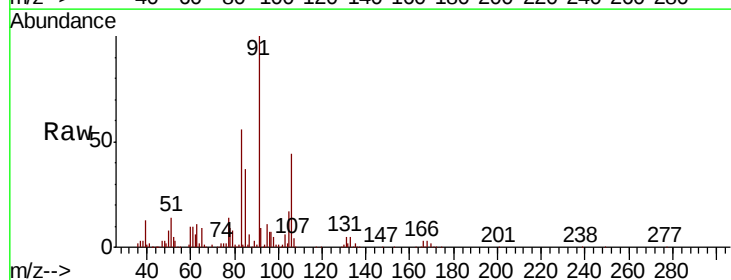
Manual Integrations
APPROVED

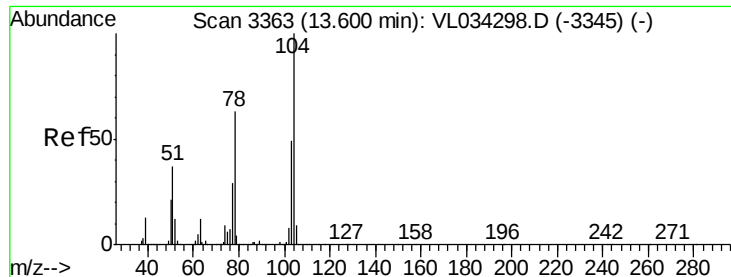
MMDadoda
10/18/2019 3:04:38 PM



#60
o-Xylene
Concen: 9.728 ppbv
RT: 13.79 min Scan# 3422
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 91 Resp: 2863688
Ion Ratio Lower Upper
91 100
106 42.7 21.6 64.6





#61

Stvrene

Concen: 10.304 ppbv

RT: 13.63 min Scan# 3372

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:104 Resp: 2135398

Ion Ratio Lower Upper

104 100

78 60.6 47.8 71.8

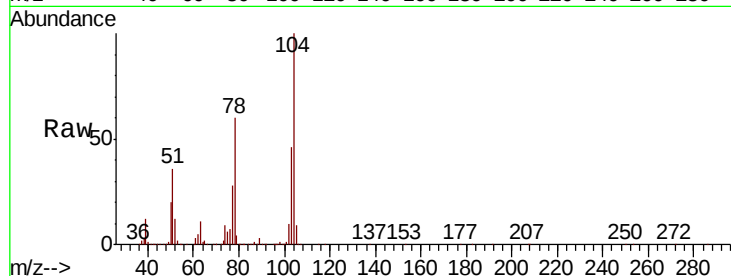
103 49.4 39.0 58.6

Manual Integrations

APPROVED

MMDadoda

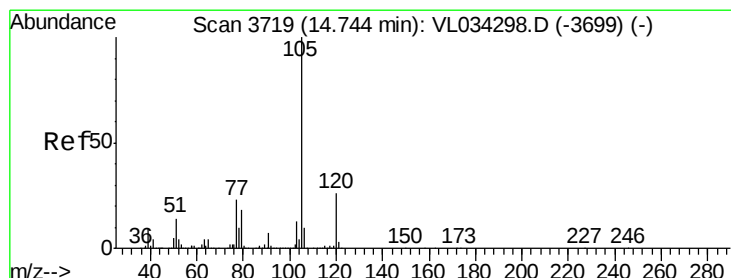
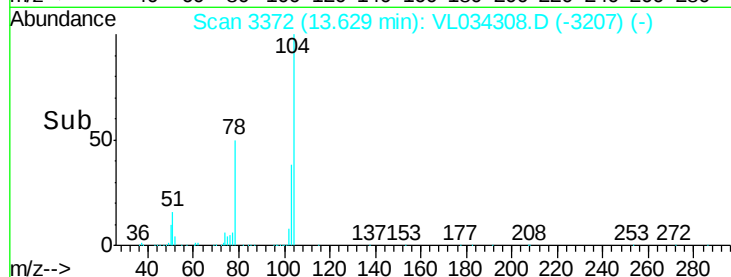
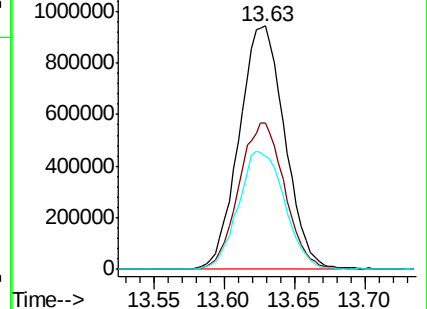
10/18/2019 3:04:38 PM



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: 9.578 ppbv

RT: 14.77 min Scan# 3726

Delta R.T. 0.02 min

Lab File: VL034308.D

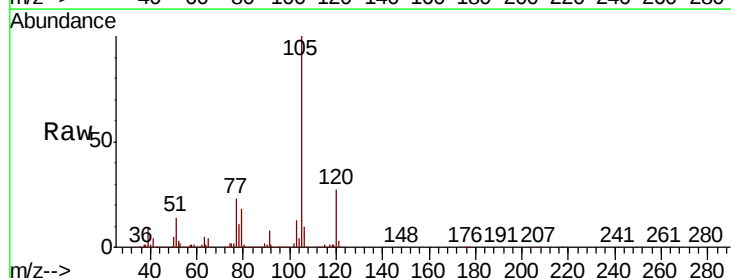
Acq: 16 Oct 2019 21:25

Tgt Ion:105 Resp: 3722100

Ion Ratio Lower Upper

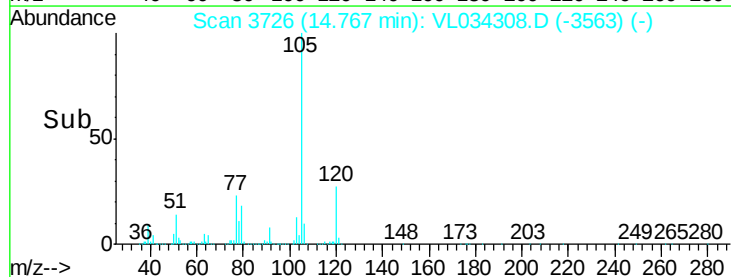
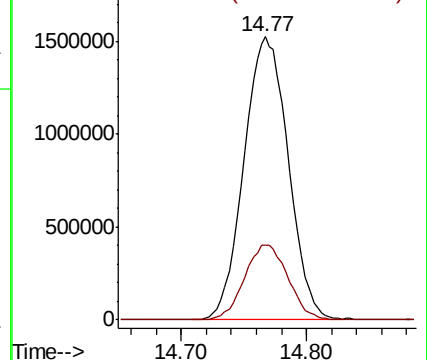
105 100

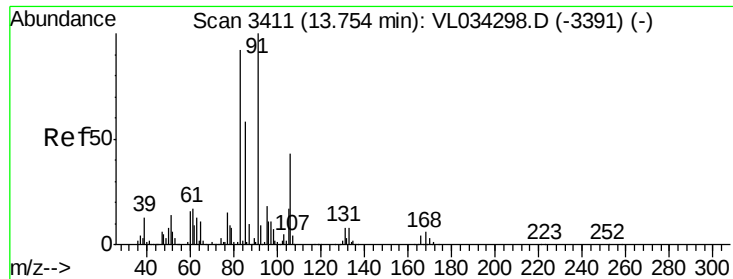
120 26.2 20.8 31.2



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: 8.641 ppbv

RT: 13.78 min Scan# 3418

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 83 Resp: 2044204

Ion Ratio Lower Upper

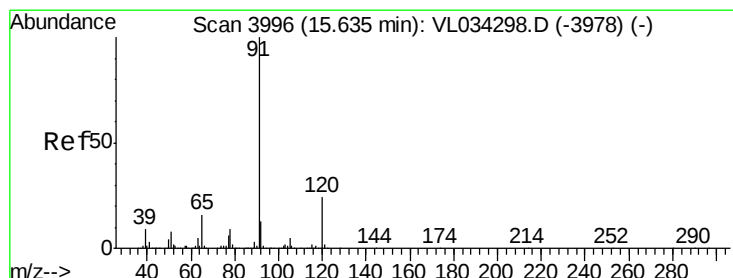
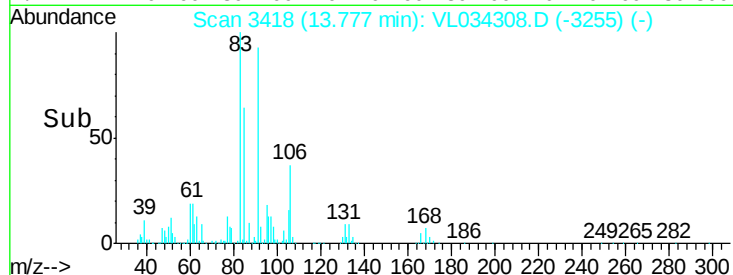
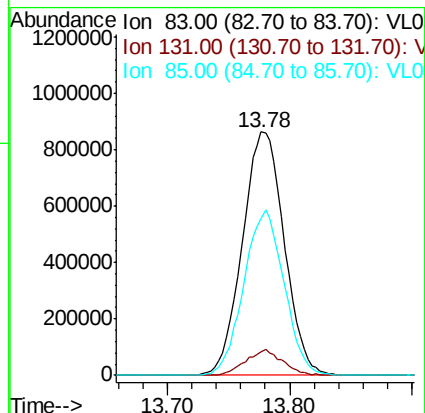
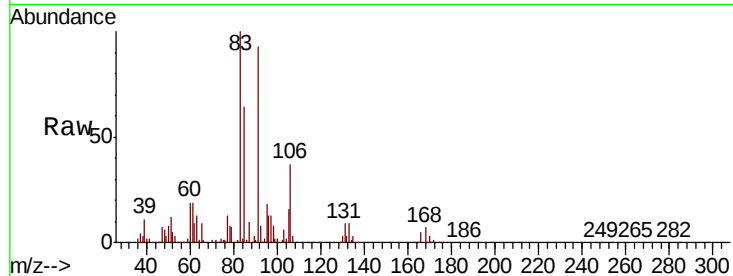
83 100

131 9.3 4.8 14.4

85 65.4 32.5 97.4

Manual Integrations
APPROVED

MMDadoda
10/18/2019 3:04:38 PM



#64

n-propylbenzene

Concen: 9.982 ppbv

RT: 15.67 min Scan# 4006

Delta R.T. 0.03 min

Lab File: VL034308.D

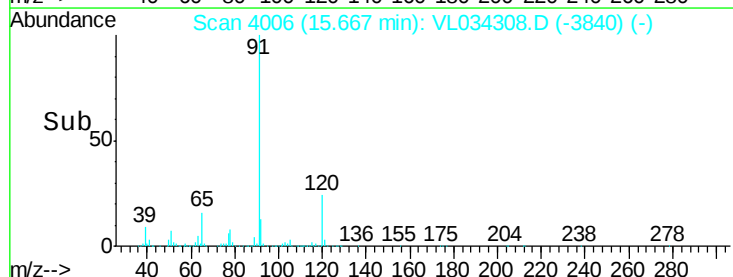
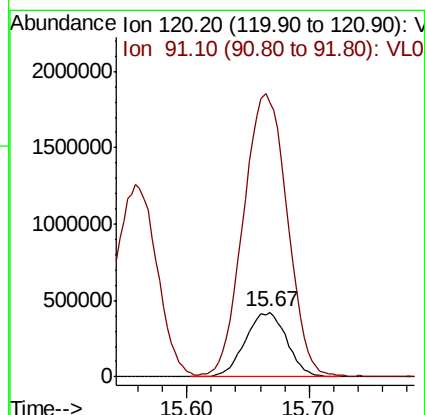
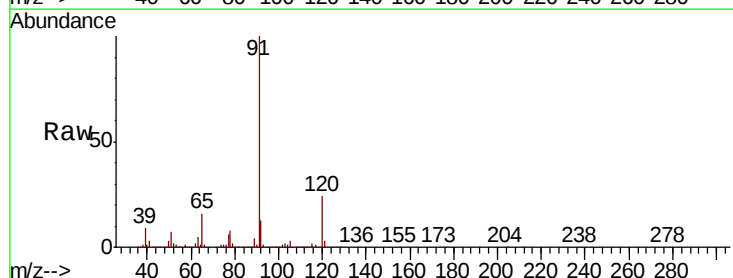
Acq: 16 Oct 2019 21:25

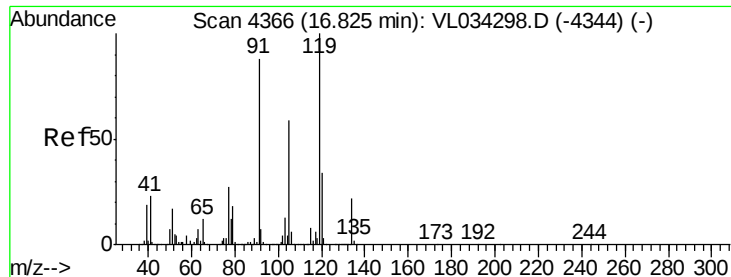
Tgt Ion: 120 Resp: 995480

Ion Ratio Lower Upper

120 100

91 465.4 374.9 562.3





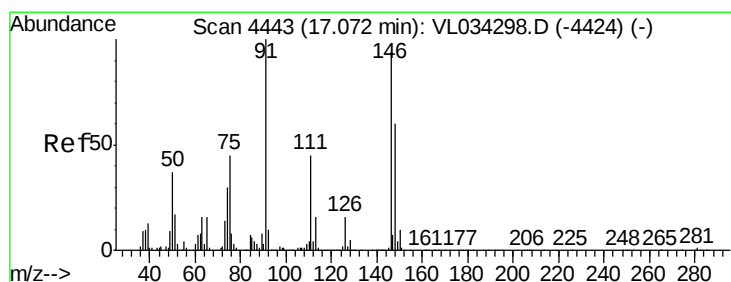
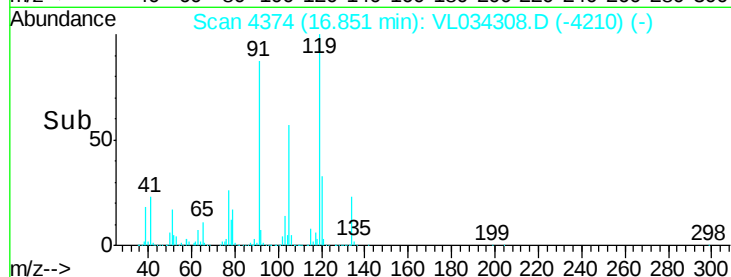
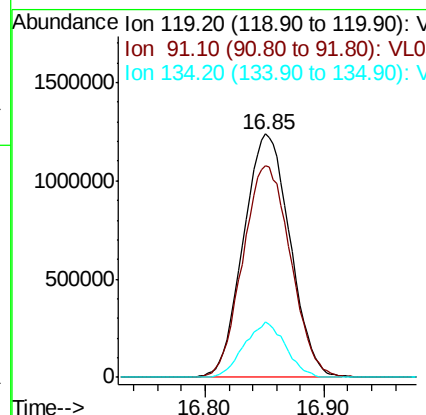
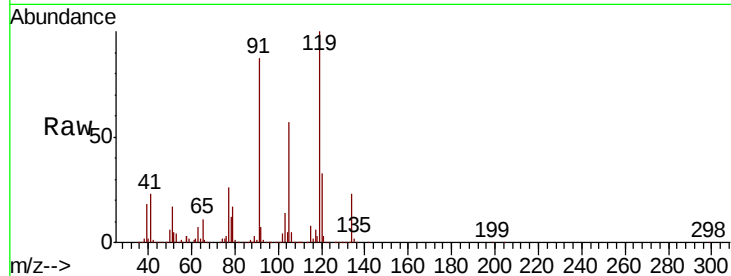
#65
tert-Butylbenzene
Concen: 9.719 ppbv
RT: 16.85 min Scan# 4374
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
VL1016ABS01

Tot Ion: 119 Resp: 3347389
Ion Ratio Lower Upper
119 100
91 89.5 71.4 107.0
134 20.3 15.9 23.9

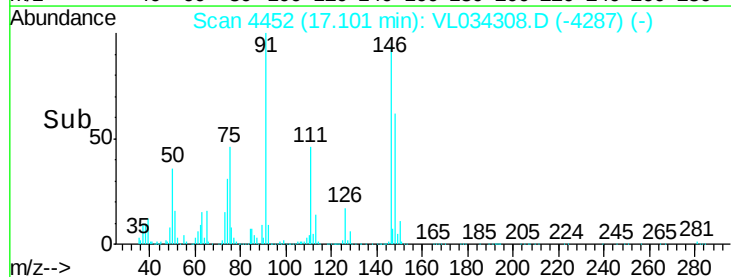
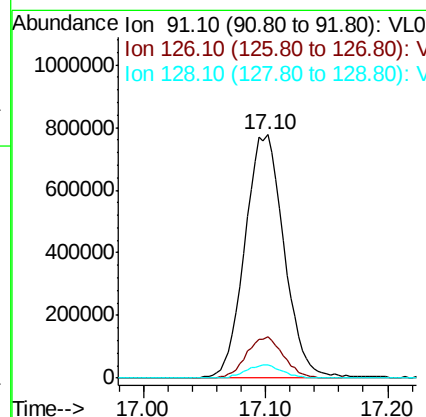
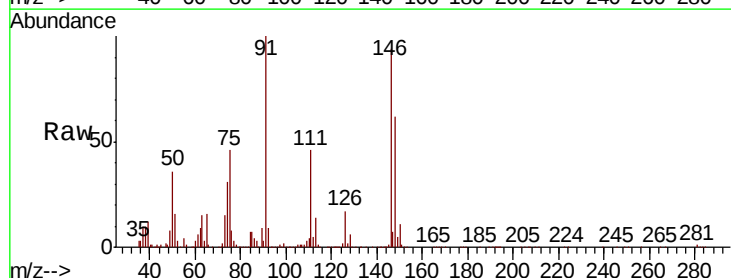
Manual Integrations
APPROVED

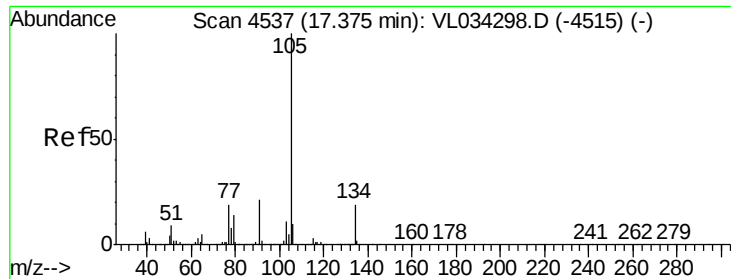
MMDadoda
10/18/2019 3:04:38 PM



#66
Benzyl Chloride
Concen: 12.618 ppbv
RT: 17.10 min Scan# 4452
Delta R.T. 0.03 min
Lab File: VL034308.D
Acq: 16 Oct 2019 21:25

Tgt Ion: 91 Resp: 1716402
Ion Ratio Lower Upper
91 100
126 16.2 12.9 19.3
128 5.1 4.3 6.5





#67

sec-Butylbenzene

Concen: 9.532 ppbv

RT: 17.40 min Scan# 4546

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion: 105 Resp: 4619955

Ion Ratio Lower Upper

105 100

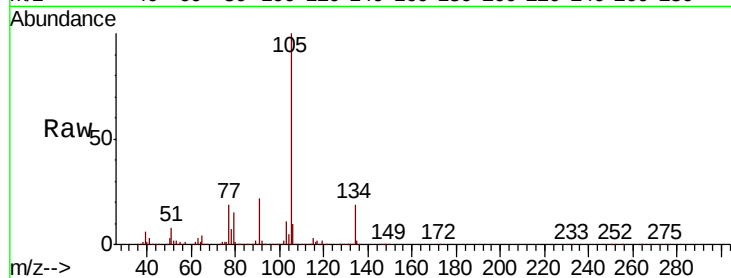
134 19.0 15.4 23.0

Manual Integrations

APPROVED

MMDadoda

10/18/2019 3:04:38 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.40

2000000

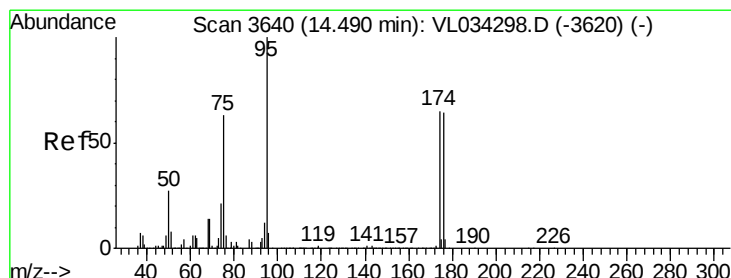
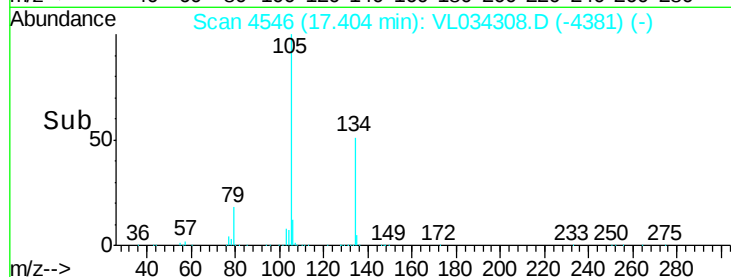
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.596 ppbv

RT: 14.52 min Scan# 3648

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

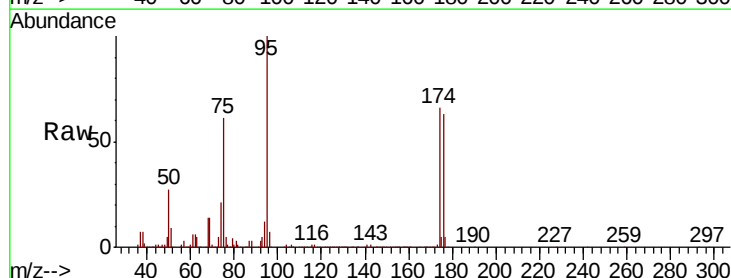
Tgt Ion: 95 Resp: 1983738

Ion Ratio Lower Upper

95 100

174 65.8 52.6 78.8

175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.52

1000000

800000

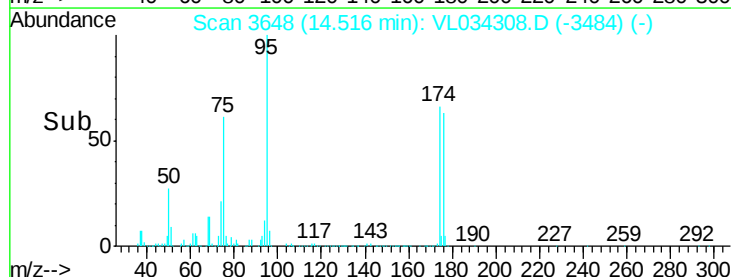
600000

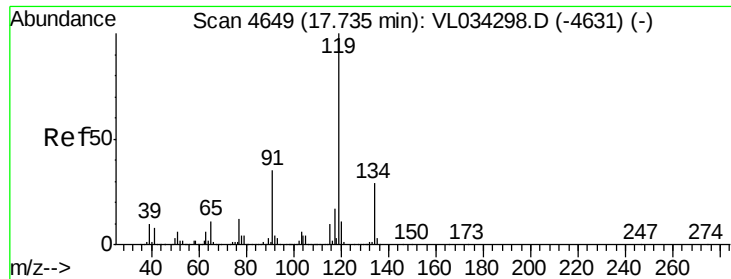
400000

200000

0

Time-->





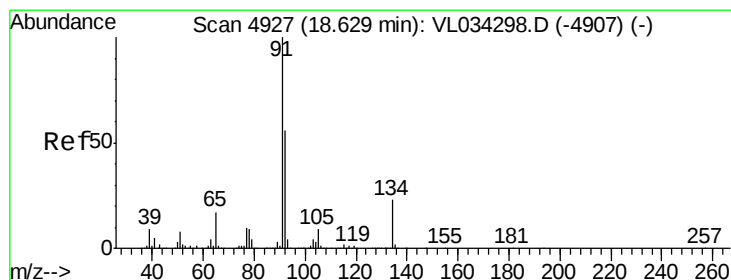
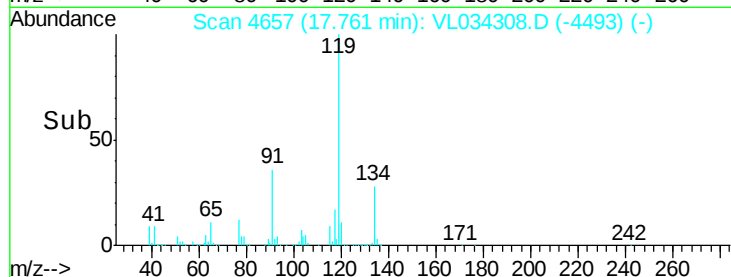
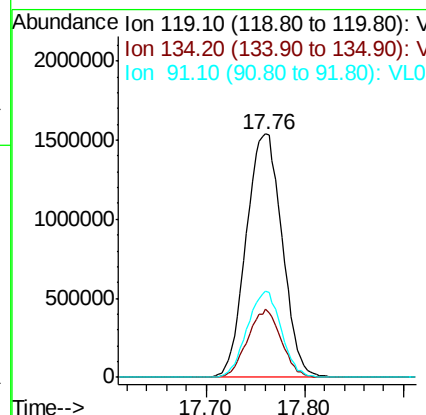
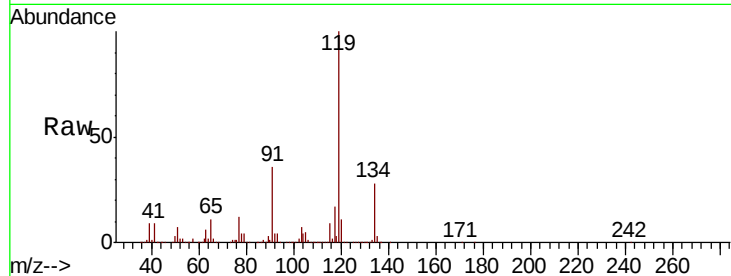
#69
 p-Isopropyltoluene
 Concen: 9.817 ppbv
 RT: 17.76 min Scan# 4657
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	21.3	31.9
91	33.4	26.6	39.8

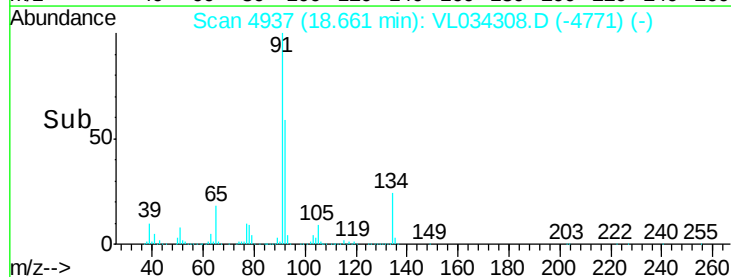
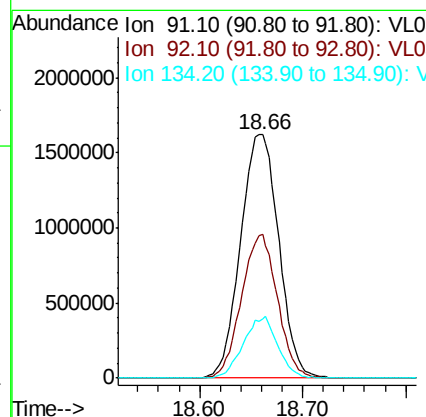
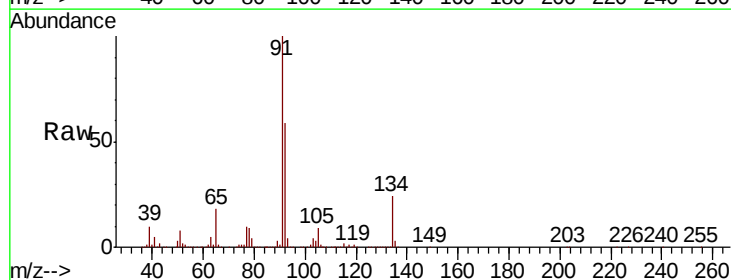
Manual Integrations
 APPROVED

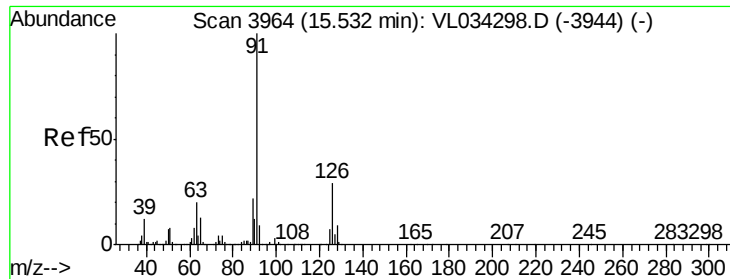
MMDadoda
 10/18/2019 3:04:38 PM



#70
 n-Butylbenzene
 Concen: 9.686 ppbv
 RT: 18.66 min Scan# 4937
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.7	44.5	66.7
134	22.7	18.2	27.2





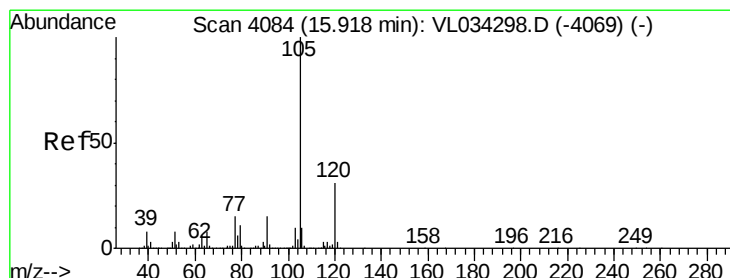
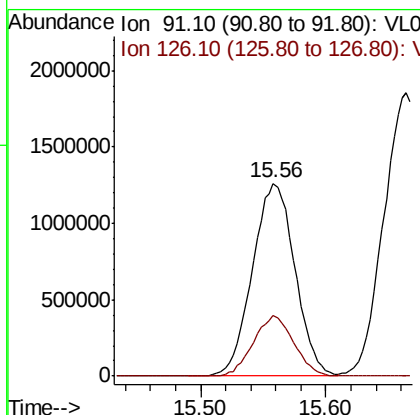
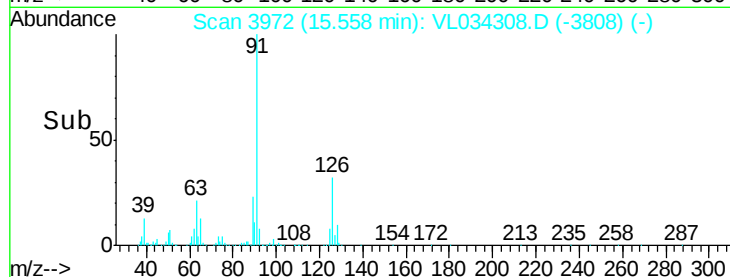
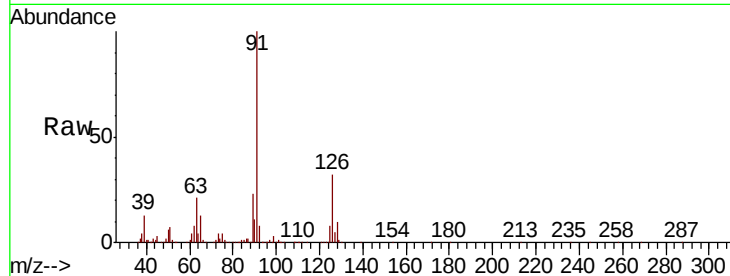
#71
 2-Chlorotoluene
 Concen: 9.877 ppbv
 RT: 15.56 min Scan# 3972
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion: 91 Resp: 2976229
 Ion Ratio Lower Upper
 91 100
 126 30.2 11.9 47.5

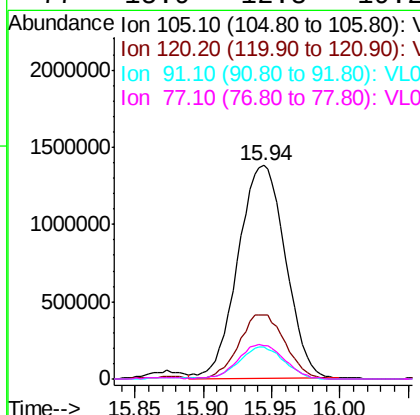
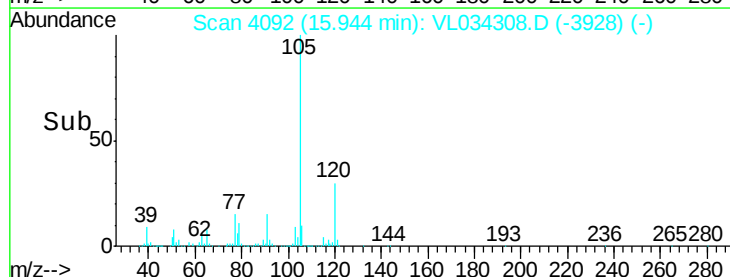
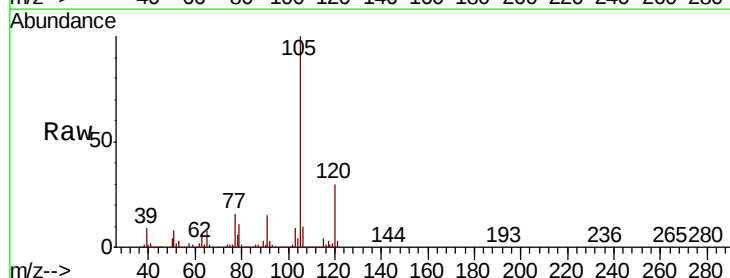
Manual Integrations
 APPROVED

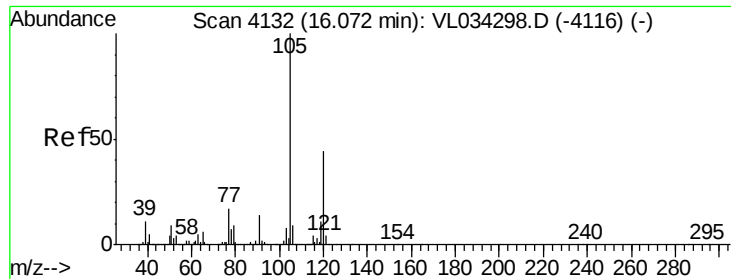
MMDadoda
 10/18/2019 3:04:38 PM



#72
 4-Ethyltoluene
 Concen: 10.055 ppbv
 RT: 15.94 min Scan# 4092
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion: 105 Resp: 3327201
 Ion Ratio Lower Upper
 105 100
 120 29.6 23.8 35.8
 91 14.1 11.2 16.8
 77 15.9 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 9.714 ppbv

RT: 16.10 min Scan# 4141

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:105 Resp: 3185040

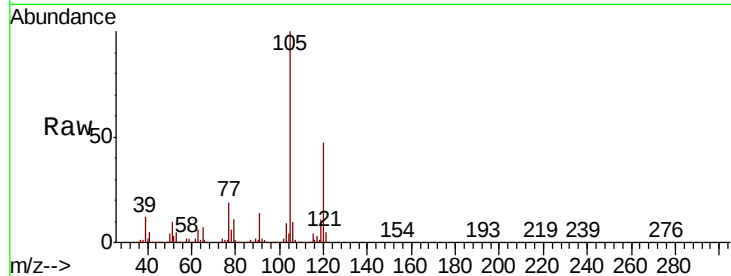
Ion Ratio Lower Upper

105 100

120 47.3 35.2 52.8

Manual Integrations
APPROVED

MMDadoda
10/18/2019 3:04:38 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.10

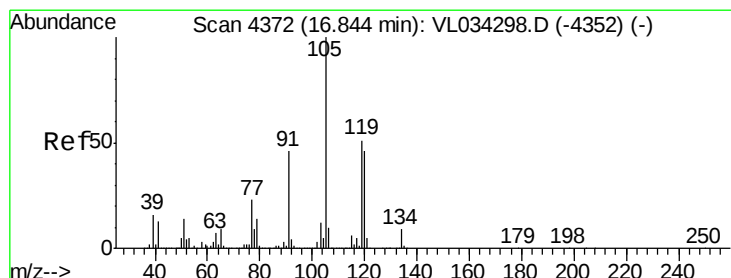
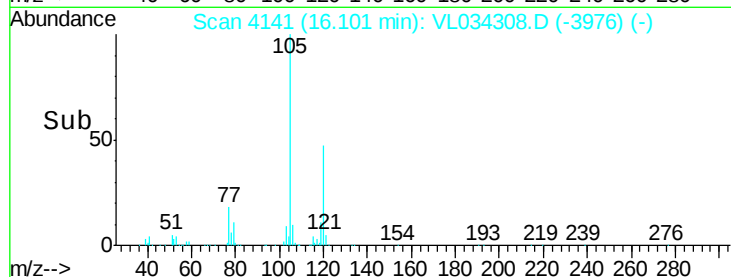
1500000

1000000

500000

0

Time--> 16.00 16.10 16.20



#74

1,2,4-Trimethylbenzene

Concen: 9.636 ppbv

RT: 16.87 min Scan# 4380

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Tgt Ion:105 Resp: 3294706

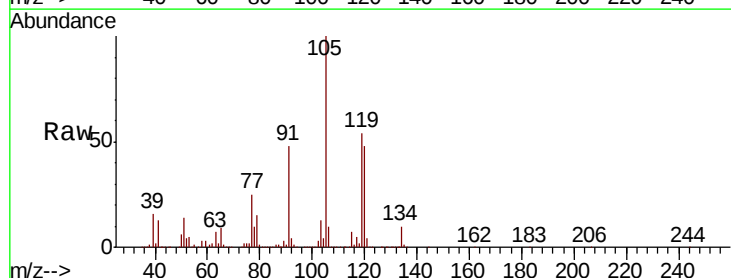
Ion Ratio Lower Upper

105 100

120 47.3 37.0 55.6

91 48.1 38.2 57.2

77 24.8 19.0 28.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

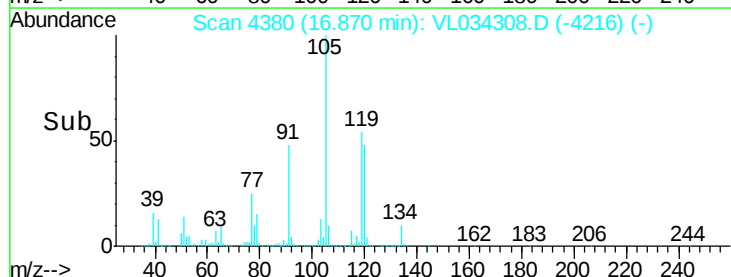
1500000

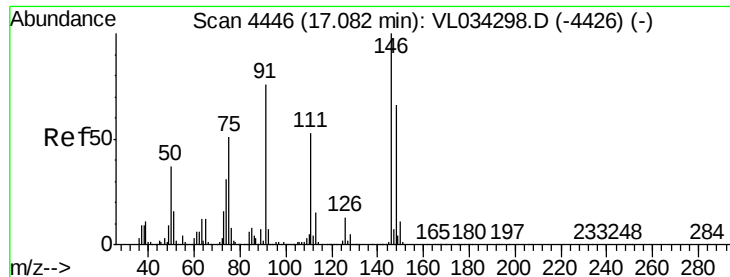
1000000

500000

0

Time--> 16.80 16.90





#75

1,3-Dichlorobenzene

Concen: 9.293 ppbv

RT: 17.11 min Scan# 4455

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:146 Resp: 1907705

Ion Ratio Lower Upper

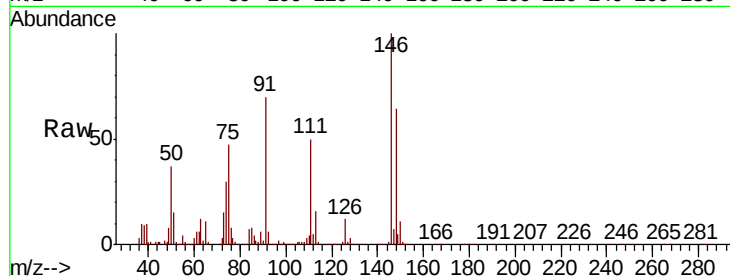
146 100

111 49.5 24.5 73.5

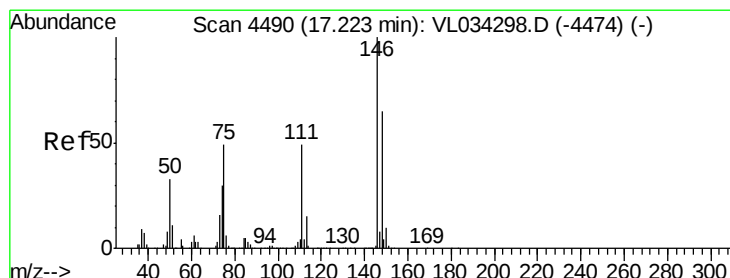
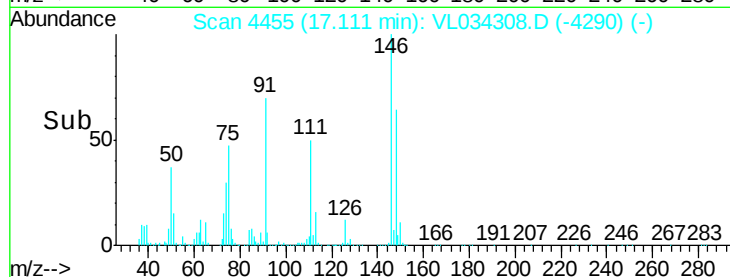
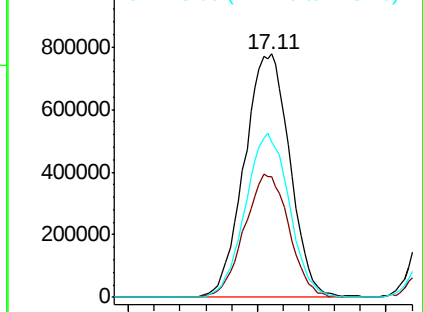
148 65.3 32.3 96.8

Manual Integrations
APPROVED

MMDadoda
10/18/2019 3:04:38 PM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.689 ppbv

RT: 17.25 min Scan# 4498

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

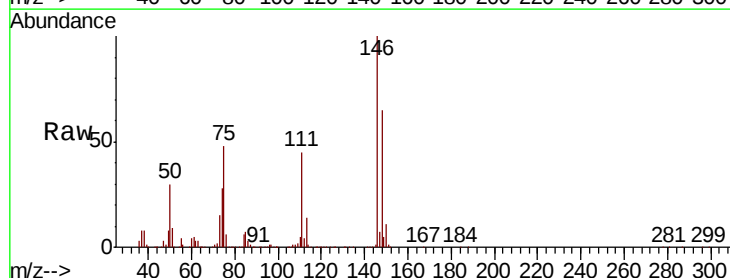
Tgt Ion:146 Resp: 1942721

Ion Ratio Lower Upper

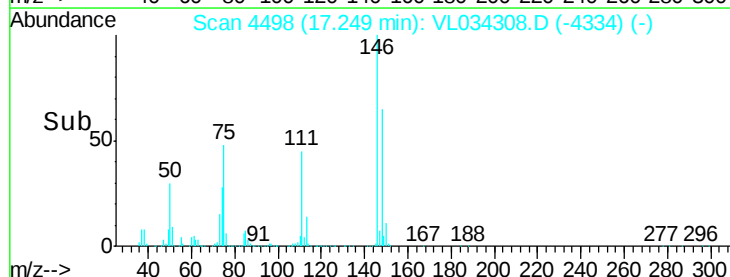
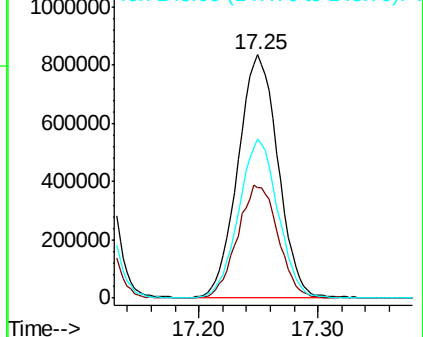
146 100

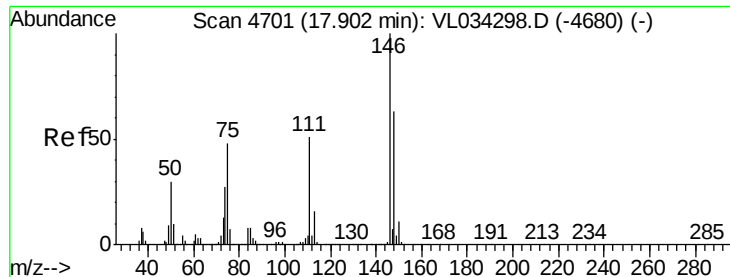
111 47.4 23.9 71.7

148 64.7 33.1 99.2



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





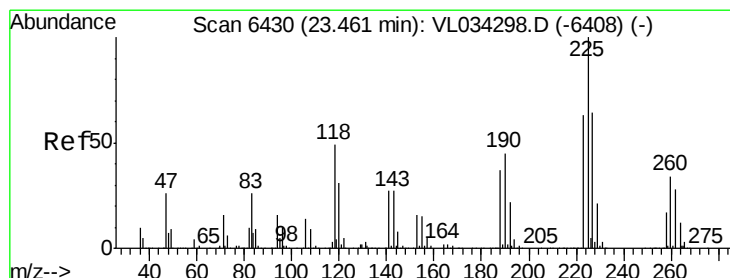
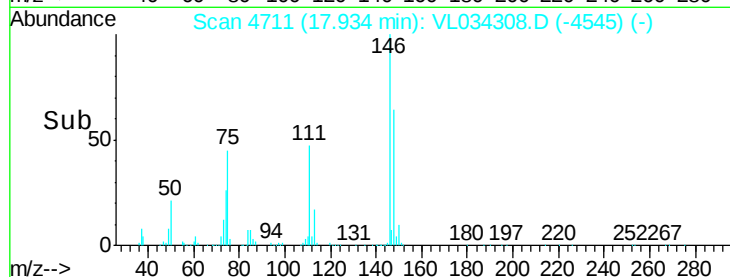
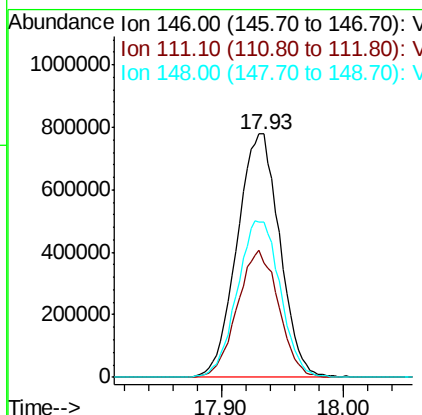
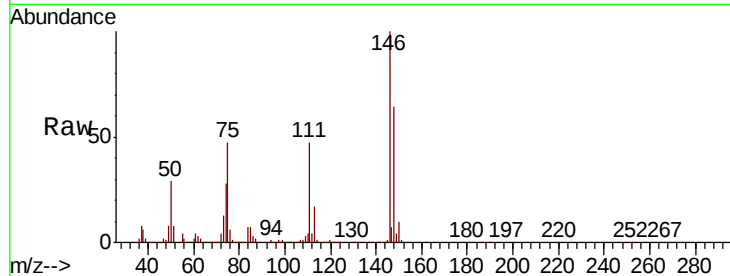
#77
 1,2-Dichlorobenzene
 Concen: 9.313 ppbv
 RT: 17.93 min Scan# 4711
 Delta R.T. 0.03 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.9	25.1	75.3
148	65.2	32.3	96.8

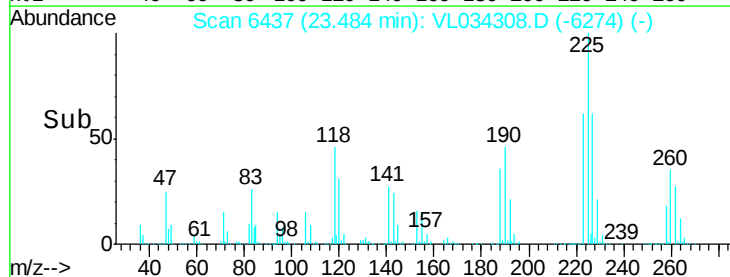
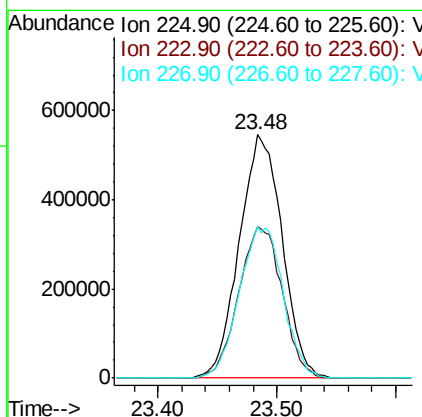
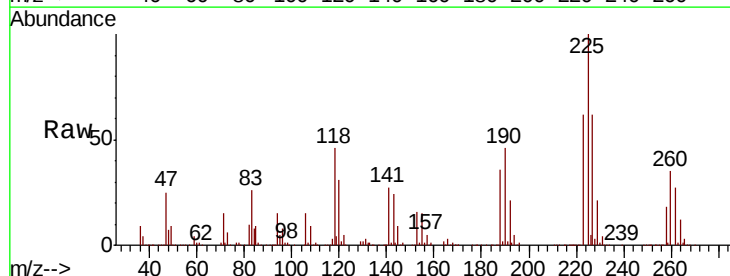
Manual Integrations
 APPROVED

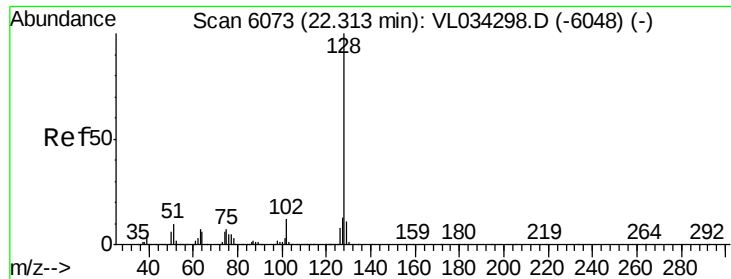
MMDadoda
 10/18/2019 3:04:38 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.173 ppbv
 RT: 23.48 min Scan# 6437
 Delta R.T. 0.02 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.8	76.2
227	63.8	51.5	77.3





#79

Naphthalene

Concen: 11.443 ppbv

RT: 22.34 min Scan# 6082

Delta R.T. 0.03 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

VL1016ABS01

Tot Ion:128 Resp: 2858113

Ion Ratio Lower Upper

128 100

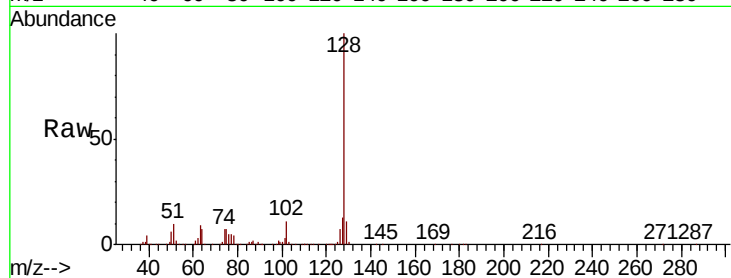
127 13.0 10.2 15.4

129 11.0 8.9 13.3

Manual Integrations
APPROVED

MMDadoda

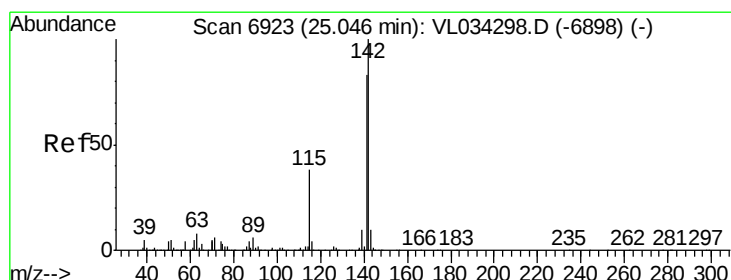
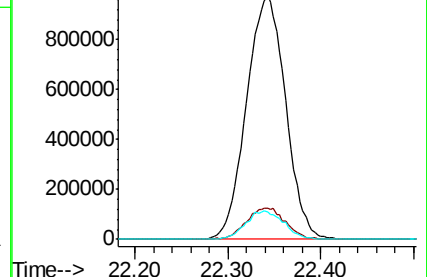
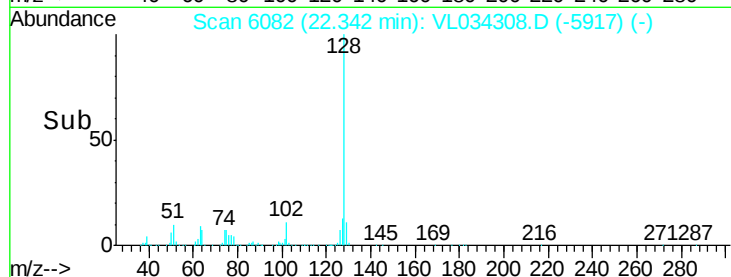
10/18/2019 3:04:38 PM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 13.133 ppbv

RT: 25.07 min Scan# 6929

Delta R.T. 0.02 min

Lab File: VL034308.D

Acq: 16 Oct 2019 21:25

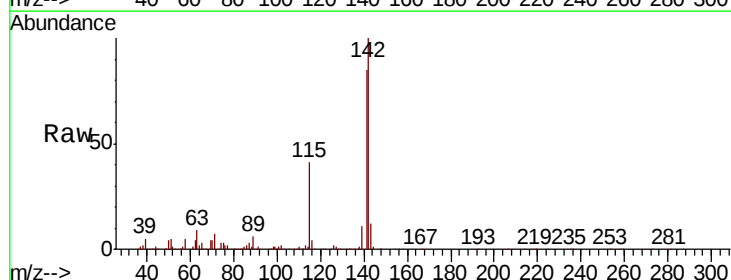
Tgt Ion:142 Resp: 948128

Ion Ratio Lower Upper

142 100

141 85.7 65.7 98.5

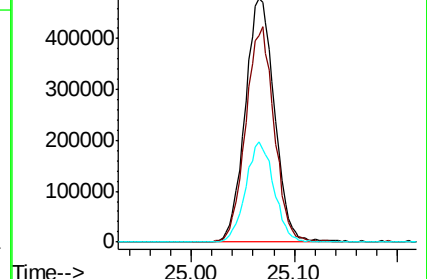
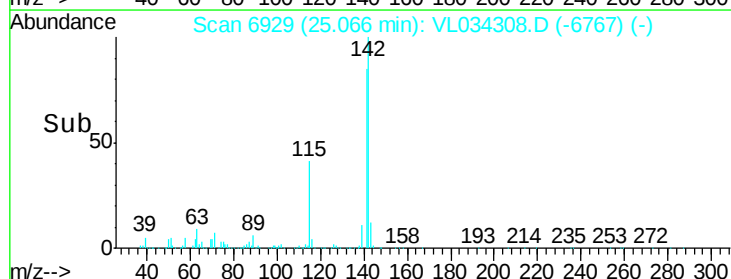
115 40.0 30.9 46.3

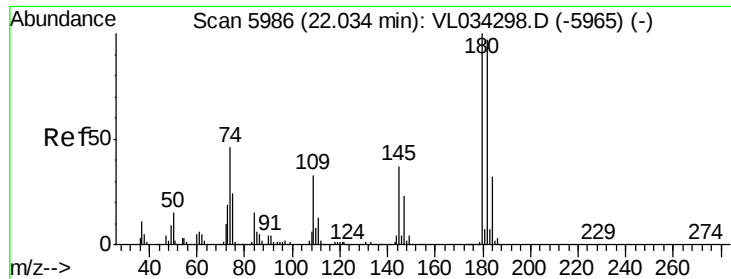


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.545 ppbv
 RT: 22.07 min Scan# 5997
 Delta R.T. 0.04 min
 Lab File: VL034308.D
 Acq: 16 Oct 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.8	116.8
184	31.0	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:38 PM

