

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035044.D
 Acq On : 19 May 2020 14:22
 Operator : SY/AP
 Sample : VL0519ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0519ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:26:51 PM

Quant Time: May 20 05:23:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1177877	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2716360	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2743005	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2232900	10.06	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1206683	7.218 ppbv	95
3) Chlorodifluoromethane	2.94	51	1206571	8.972 ppbv	99
4) Chloromethane	3.09	50	692587	8.987 ppbv	97
5) Vinyl Chloride	3.21	62	682416	9.077 ppbv	97
6) Bromomethane	3.43	94	413451	9.210 ppbv	98
7) Chloroethane	3.51	64	251597	9.318 ppbv	92
8) Dichlorotetrafluoroethane	3.14	85	1533892	8.866 ppbv	99
9) Propene	2.96	41	509015	8.723 ppbv	98
10) Heptane	8.12	43	1420006	9.713 ppbv	99
11) Trichlorofluoromethane	3.91	101	1584484	9.192 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1105723	9.009 ppbv	100
13) Ethanol	3.56	45	159974	8.308 ppbv	96
14) Bromoethene	3.70	108	485869	9.579 ppbv	98
15) Acetone	3.81	43	1262653	8.108 ppbv	100
16) 1,3-Butadiene	3.28	39	618290	9.226 ppbv	99
17) tert-Butyl alcohol	4.26	59	1288877	9.303 ppbv	99
18) 1,1-Dichloroethene	4.25	96	519664	9.759 ppbv	97
19) Isopropyl Alcohol	3.93	45	940148	9.053 ppbv	100
20) Methylene Chloride	4.31	84	450614	8.742 ppbv	94
21) Allyl Chloride	4.38	41	876131	9.961 ppbv	99
22) trans-1,2-Dichloroethene	4.85	96	504697	9.568 ppbv	100
23) Vinyl Acetate	5.05	43	1889828	9.571 ppbv	99
24) 1,1-Dichloroethane	4.98	63	1384832	9.105 ppbv	98
25) Ethyl Acetate	5.65	43	2422122	9.260 ppbv	100
26) Hexane	5.66	57	1082122	9.543 ppbv	99
27) Carbon Disulfide	4.51	76	1305453	9.767 ppbv	99
28) Methyl tert-Butyl Ether	5.00	73	1599391	9.261 ppbv	100
29) Chloroform	5.74	83	1692930	9.124 ppbv	99
30) Cyclohexane	7.12	84	896440	10.244 ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	1095832	9.904 ppbv	95
32) 1,1,1-Trichloroethane	6.49	97	1594105	9.514 ppbv	99
34) 2-Butanone	5.22	43	1589899	9.417 ppbv	99
35) Carbon Tetrachloride	7.01	117	1638338	9.556 ppbv	97
36) Benzene	6.88	78	2163121	9.659 ppbv	97
37) 1,2-Dichloroethane	6.29	62	1308025	9.468 ppbv	99
38) Trichloroethene	7.83	130	809958	9.336 ppbv	95
39) 1,2-Dichloropropane	7.61	63	845701	9.420 ppbv	98
40) 1,4-Dioxane	7.83	88	356241	9.762 ppbv	93
41) Tetrahydrofuran	6.02	42	889524	10.008 ppbv	99
42) Bromodichloromethane	7.79	83	1776481	9.535 ppbv	97
43) Methyl Methacrylate	8.01	69	990794	10.477 ppbv	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035044.D
 Acq On : 19 May 2020 14:22
 Operator : SY/AP
 Sample : VL0519ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

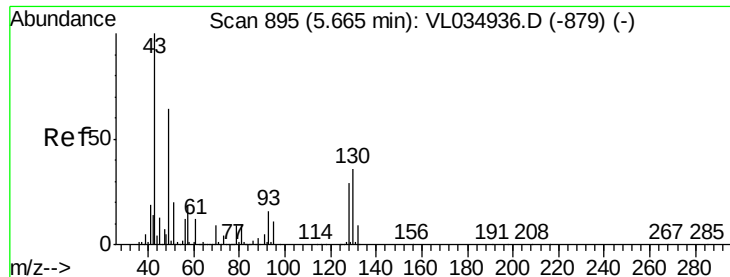
Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:26:51 PM

Quant Time: May 20 05:23:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	3728457	9.364	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1085891	11.379	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1295685	11.058	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	899275	9.492	ppbv	98
48) Dibromochloromethane	10.32	129	1456592	9.998	ppbv	100
49) Bromoform	13.06	173	1259219	10.045	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2369008	9.840	ppbv	100
51) 2-Hexanone	10.13	43	1943190	10.320	ppbv	99
52) Tetrachloroethene	11.23	164	747624	9.388	ppbv	94
53) Toluene	9.81	91	2475536	10.427	ppbv	100
54) 1,2-Dibromoethane	10.62	107	1343011	9.653	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.14	131	1091941	8.827	ppbv	97
57) Chlorobenzene	12.16	112	1880909	8.655	ppbv #	97
58) Ethyl Benzene	12.73	91	3305000	9.744	ppbv	97
59) m/p-Xylene	13.01	91	5527895m	18.523	ppbv	
60) o-Xylene	13.71	91	2728377	9.265	ppbv	100
61) Styrene	13.54	104	1939767	10.408	ppbv	99
62) Isopropylbenzene	14.69	105	3962308	9.012	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.70	83	1942748	8.381	ppbv	100
64) n-propylbenzene	15.58	120	1050396	9.314	ppbv	99
65) tert-Butylbenzene	16.77	119	3414727	8.955	ppbv	99
66) Benzyl Chloride	17.02	91	1314264	10.152	ppbv	98
67) sec-Butylbenzene	17.32	105	4904629	9.010	ppbv	99
69) p-Isopropyltoluene	17.68	119	4033990	9.160	ppbv	100
70) n-Butylbenzene	18.58	91	4259993	9.089	ppbv	99
71) 2-Chlorotoluene	15.48	91	3101332	9.344	ppbv	99
72) 4-Ethyltoluene	15.86	105	3179499	9.677	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	2964616	9.272	ppbv	97
74) 1,2,4-Trimethylbenzene	16.79	105	3027445	8.674	ppbv	97
75) 1,3-Dichlorobenzene	17.03	146	1719944	8.393	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	1741345	8.943	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1662169	8.608	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1387441	8.429	ppbv	98
79) Naphthalene	22.24	128	3039016	11.182	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	1378639	20.636	ppbv	98
81) 1,2,4-Trichlorobenzene	21.97	180	1592234	9.661	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 49 Resp: 1177877

Ion Ratio Lower Upper

49 100

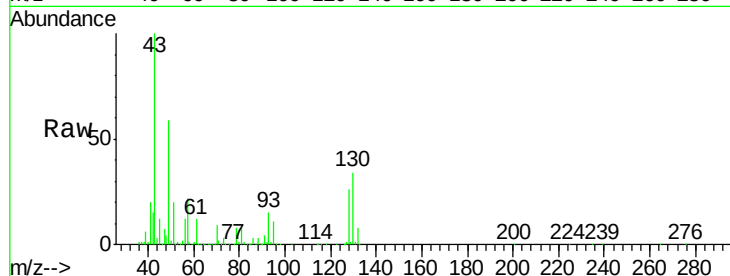
128 44.3 22.1 66.5

130 57.3 29.1 87.3

Manual Integrations
APPROVED

MMDadoda

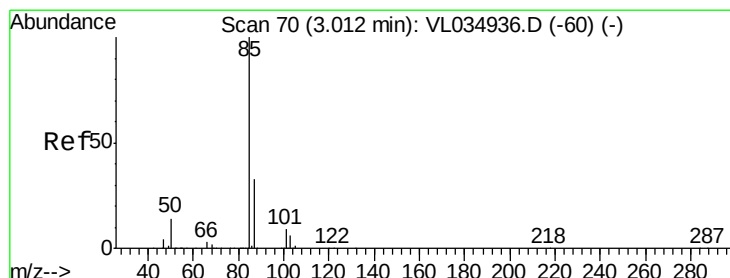
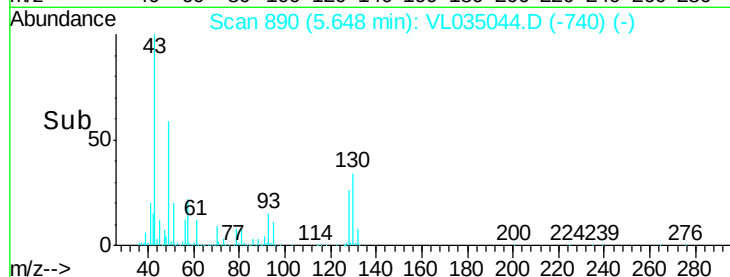
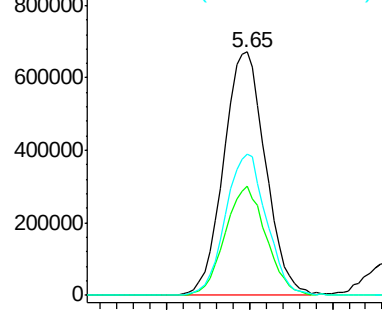
5/20/2020 4:26:51 PM



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



#2

Dichlorodifluoromethane

Concen: 7.218 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035044.D

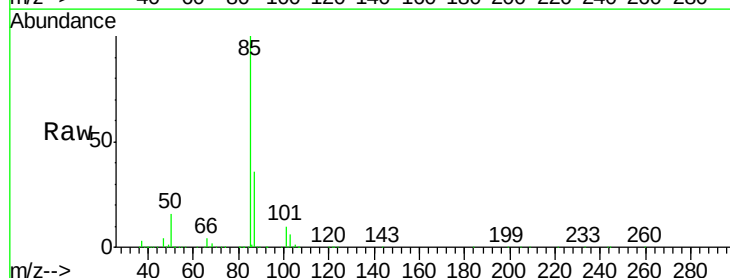
Acq: 19 May 2020 14:22

Tgt Ion: 85 Resp: 1206683

Ion Ratio Lower Upper

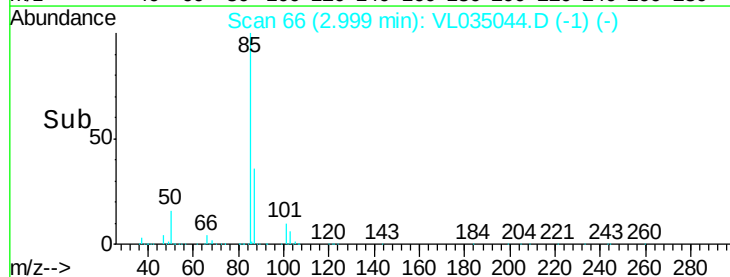
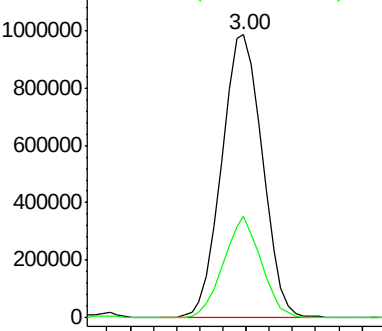
85 100

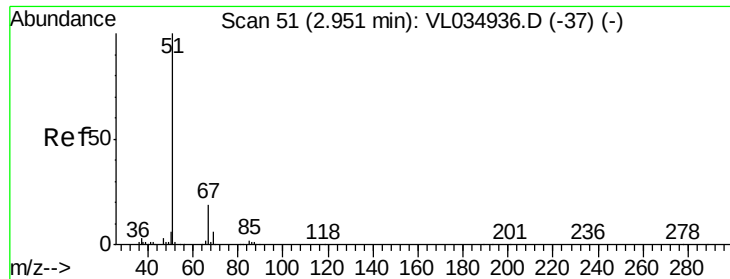
87 35.8 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.972 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.01 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tot Ion: 51 Resp: 1206571

Ion Ratio Lower Upper

51 100

67 19.4 15.0 22.6

Instrument :

MSVOA_L

ClientSampleId :

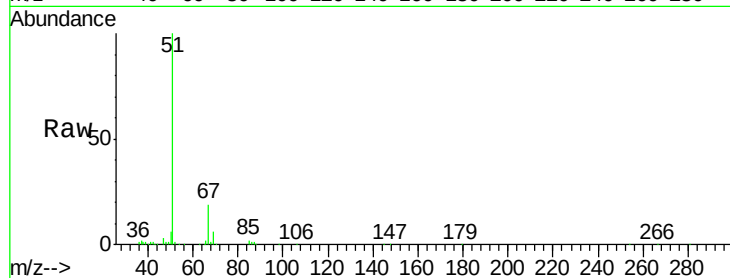
VL0519ABS01

Manual Integrations

APPROVED

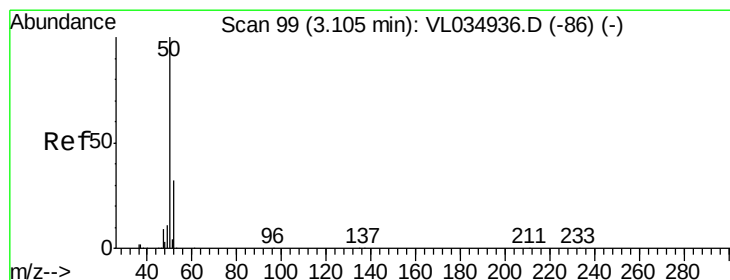
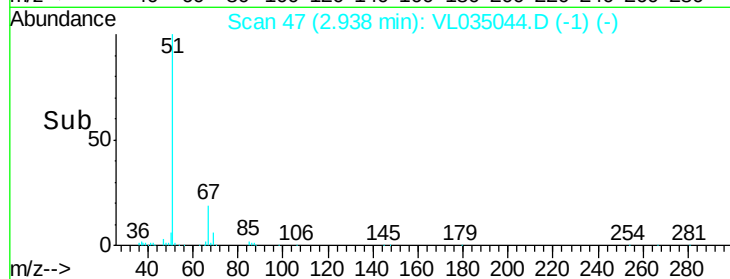
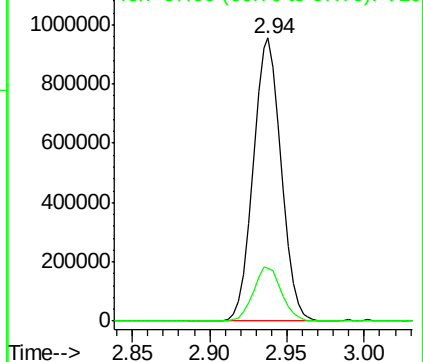
MMDadoda

5/20/2020 4:26:51 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.987 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.02 min

Lab File: VL035044.D

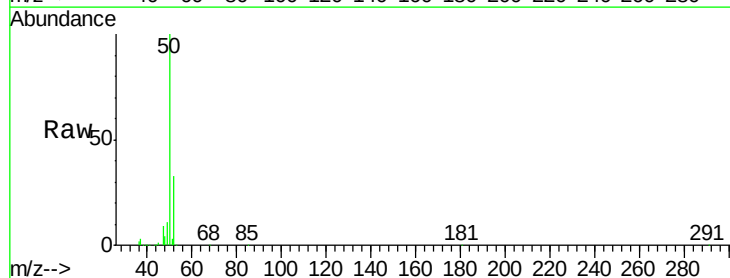
Acq: 19 May 2020 14:22

Tgt Ion: 50 Resp: 692587

Ion Ratio Lower Upper

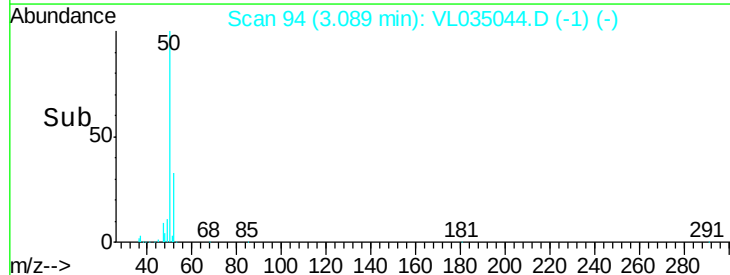
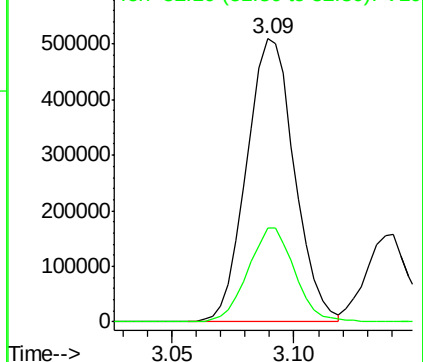
50 100

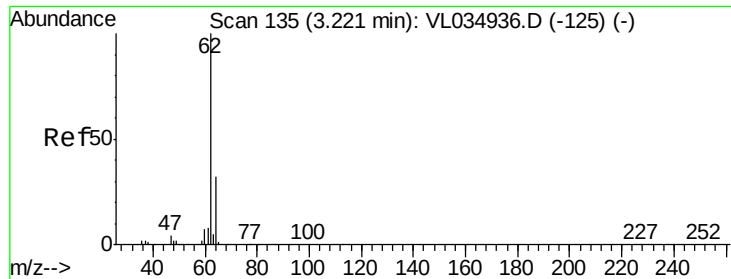
52 33.3 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.077 ppbv

RT: 3.21 min Scan# 131

Delta R.T. -0.01 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 62 Resp: 682416

Ion Ratio Lower Upper

62 100

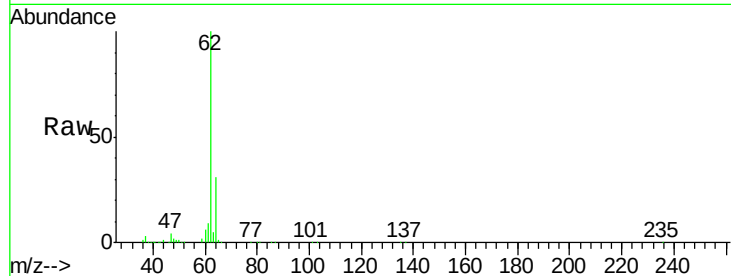
64 30.6 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

5/20/2020 4:26:51 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

600000

500000

400000

300000

200000

100000

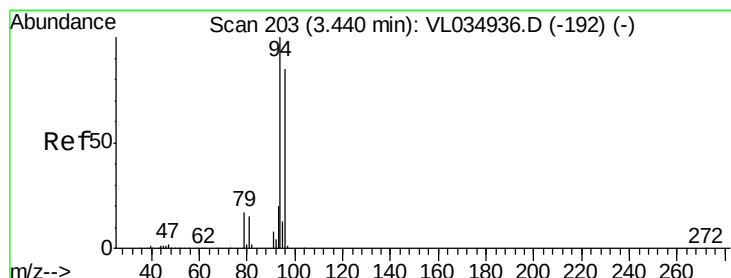
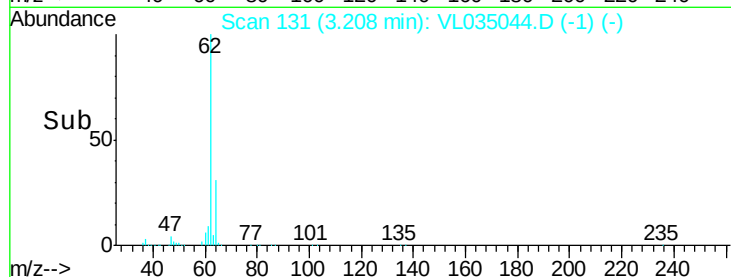
0

3.15

3.20

3.25

Time-->



#6

Bromomethane

Concen: 9.210 ppbv

RT: 3.43 min Scan# 199

Delta R.T. -0.01 min

Lab File: VL035044.D

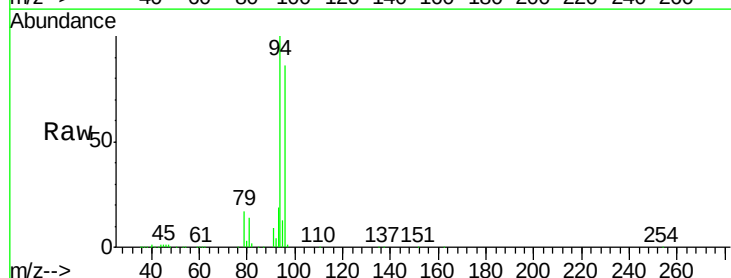
Acq: 19 May 2020 14:22

Tgt Ion: 94 Resp: 413451

Ion Ratio Lower Upper

94 100

96 86.5 67.9 101.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

200000

100000

0

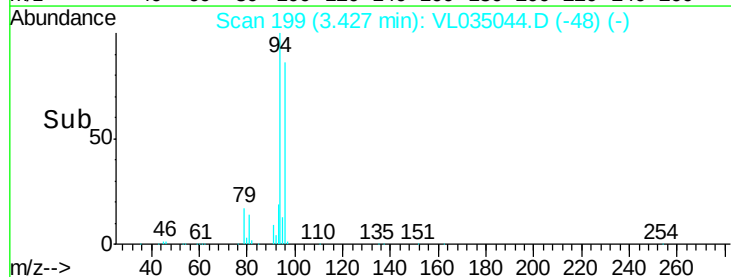
3.35

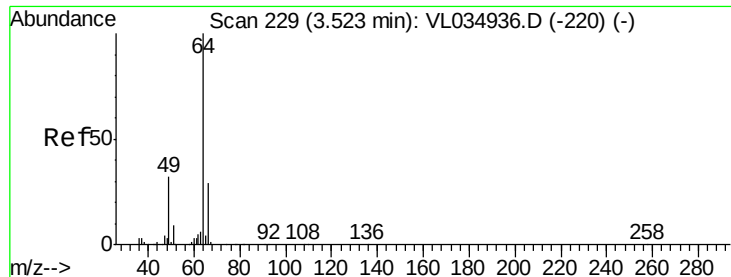
3.40

3.45

3.50

Time-->





#7

Chloroethane

Concen: 9.318 ppbv

RT: 3.51 min Scan# 225

Delta R.T. -0.01 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 64 Resp: 251597

Ion Ratio Lower Upper

64 100

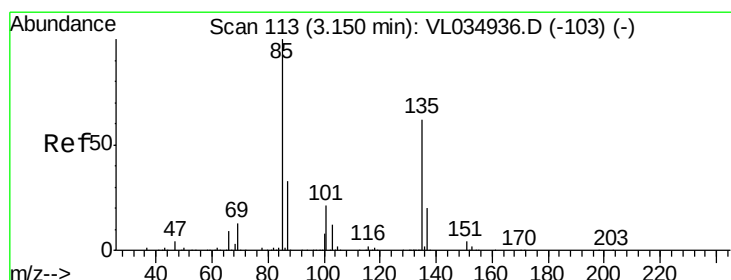
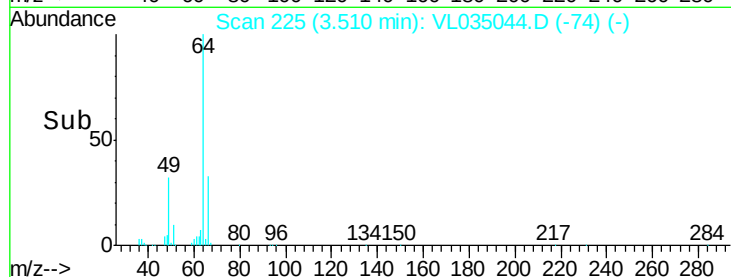
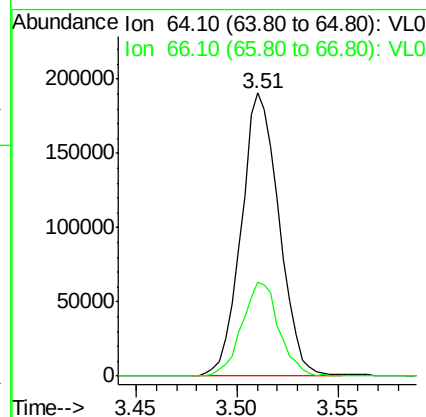
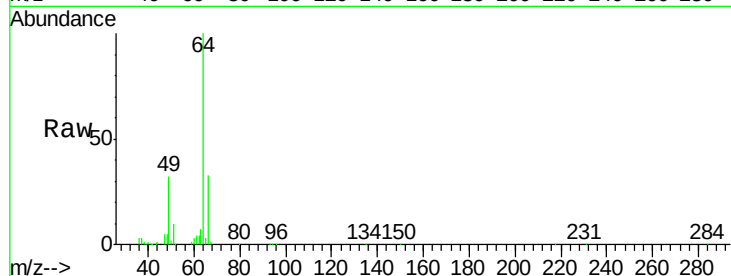
66 33.3 23.2 34.8

Manual Integrations

APPROVED

MMDadoda

5/20/2020 4:26:51 PM



#8

Dichlorotetrafluoroethane

Concen: 8.866 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL035044.D

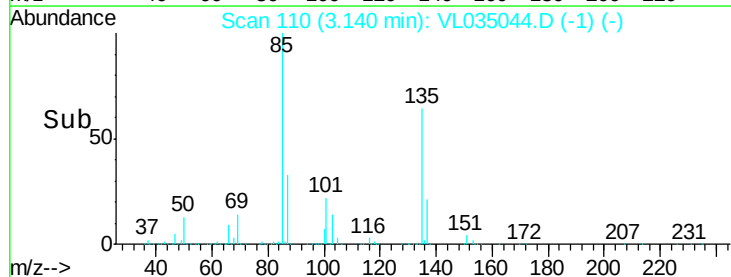
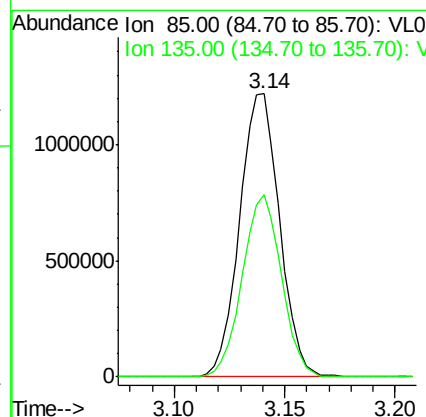
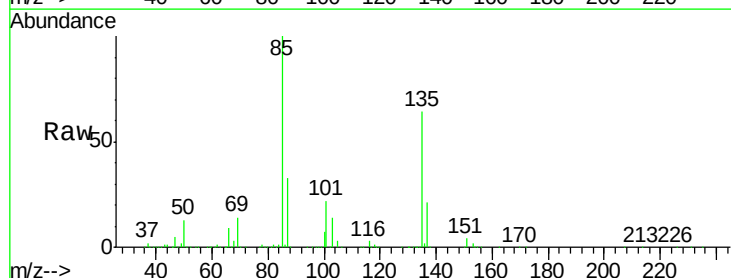
Acq: 19 May 2020 14:22

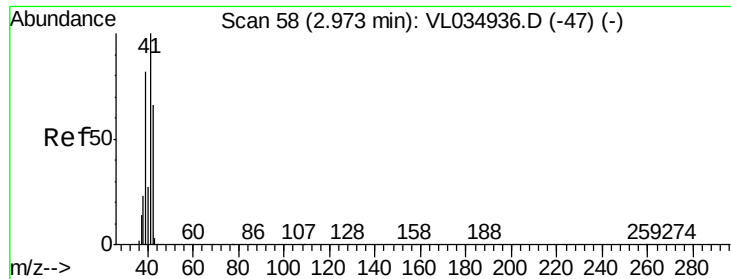
Tgt Ion: 85 Resp: 1533892

Ion Ratio Lower Upper

85 100

135 63.2 50.9 76.3





#9

Propene

Concen: 8.723 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.01 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 41 Resp: 509015

Ion Ratio Lower Upper

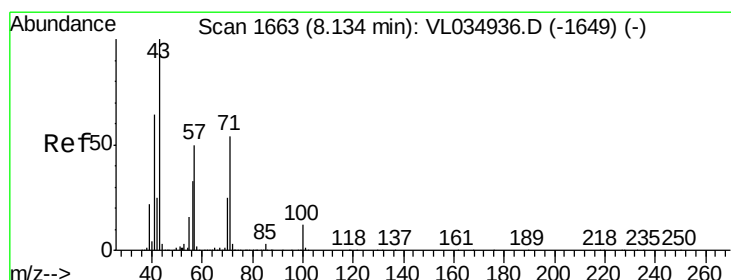
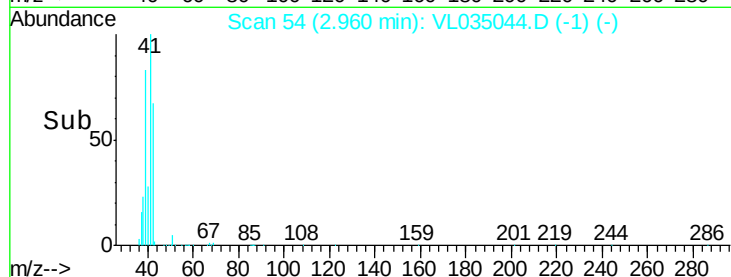
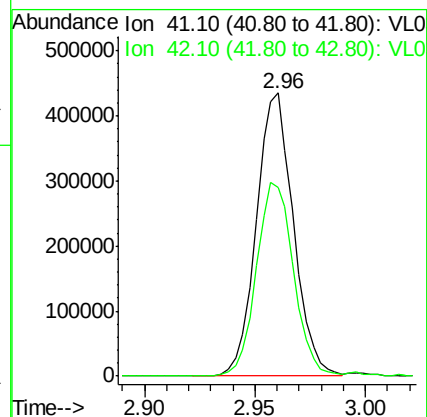
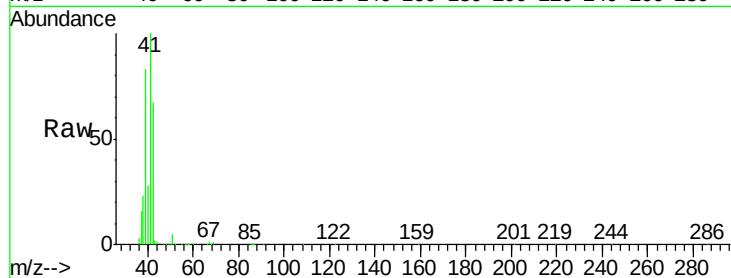
41 100

42 69.9 54.5 81.7

Manual Integrations
APPROVED

MMDadoda

5/20/2020 4:26:51 PM



#10

Heptane

Concen: 9.713 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.02 min

Lab File: VL035044.D

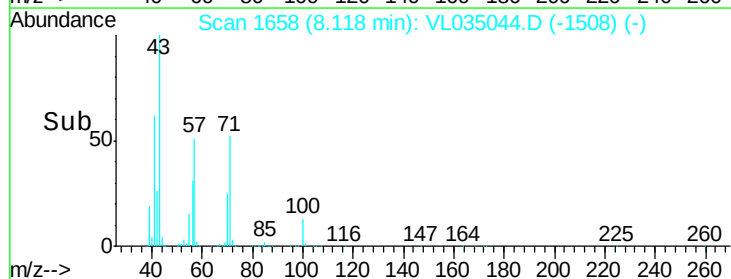
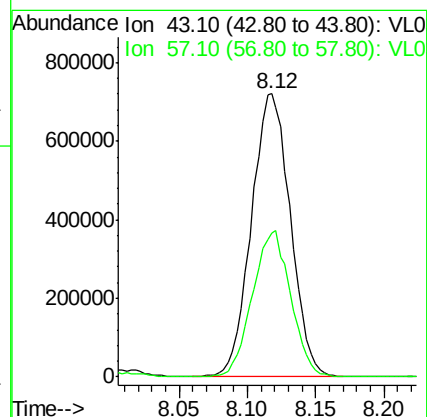
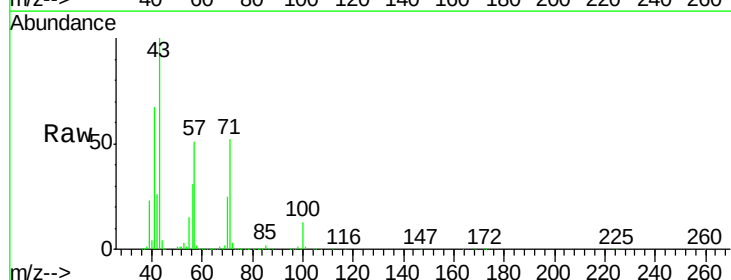
Acq: 19 May 2020 14:22

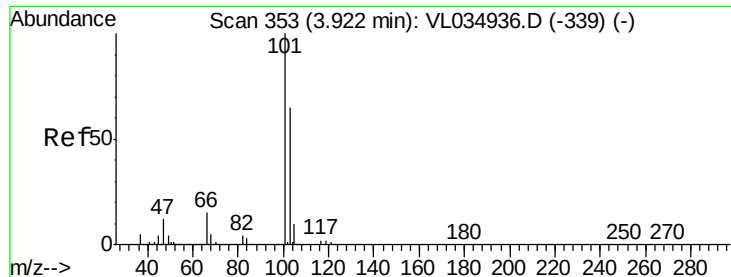
Tgt Ion: 43 Resp: 1420006

Ion Ratio Lower Upper

43 100

57 51.0 41.1 61.7





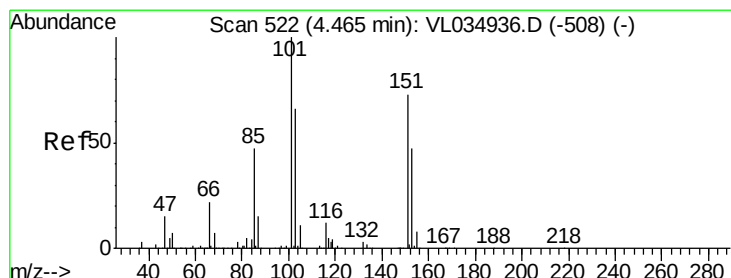
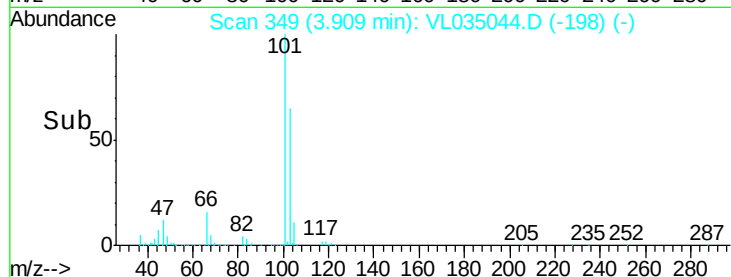
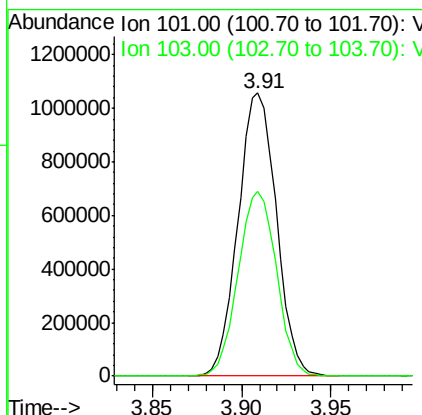
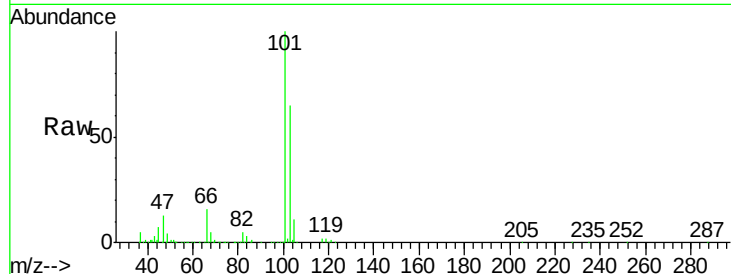
#11
 Trichlorofluoromethane
 Concen: 9.192 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion:101 Resp: 1584484
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.9 77.9

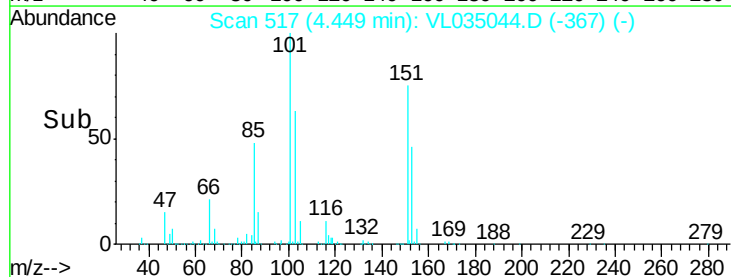
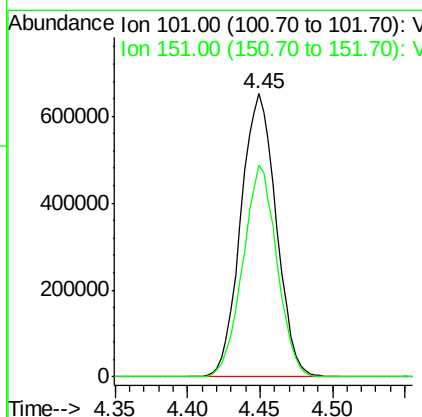
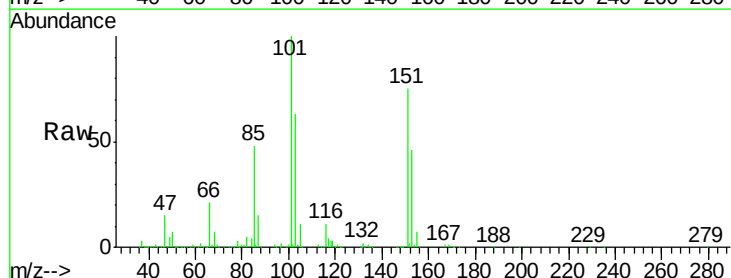
Manual Integrations
 APPROVED

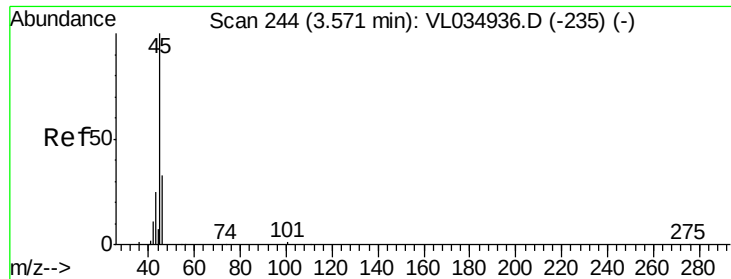
MMDadoda
 5/20/2020 4:26:51 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.009 ppbv
 RT: 4.45 min Scan# 517
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Tgt Ion:101 Resp: 1105723
 Ion Ratio Lower Upper
 101 100
 151 72.2 57.6 86.4





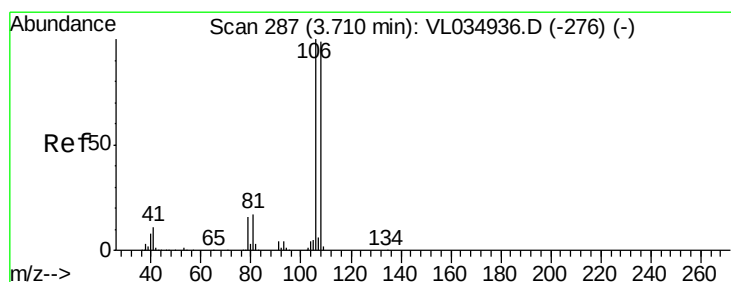
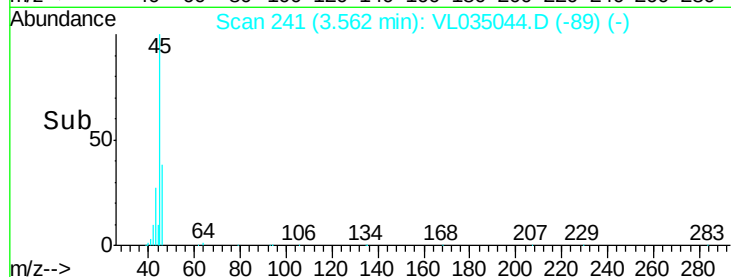
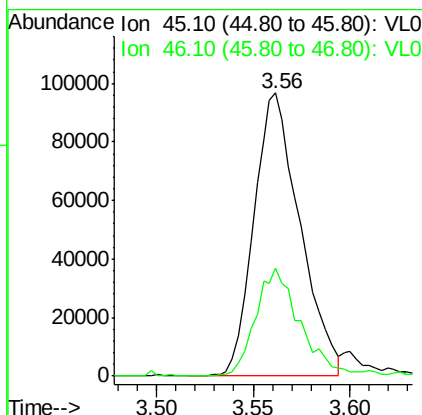
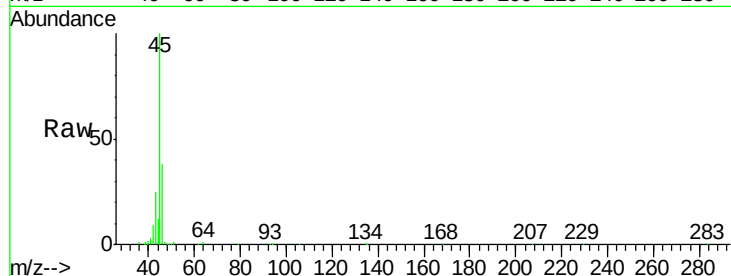
#13
Ethanol
Concen: 8.308 ppbv
RT: 3.56 min Scan# 241
Delta R.T. -0.01 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion	45	46	Ratio	Lower	Upper
Resp	159974				
Ratio	100	37.9			
Lower		14.3			
Upper		57.3			

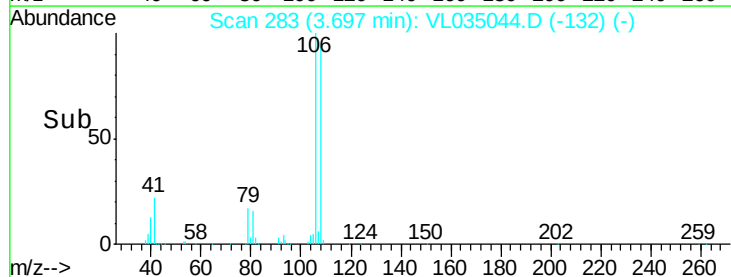
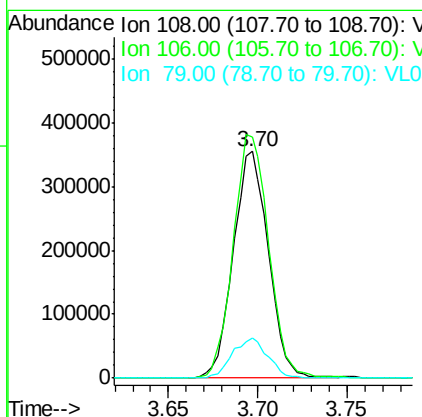
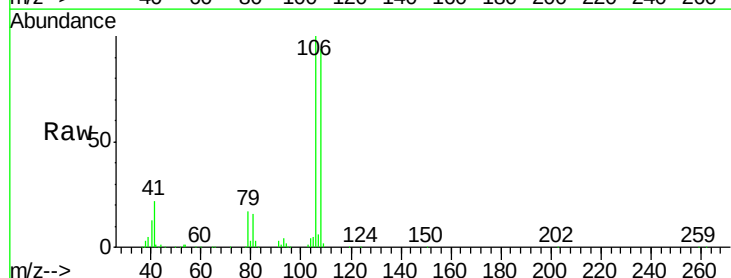
Manual Integrations
APPROVED

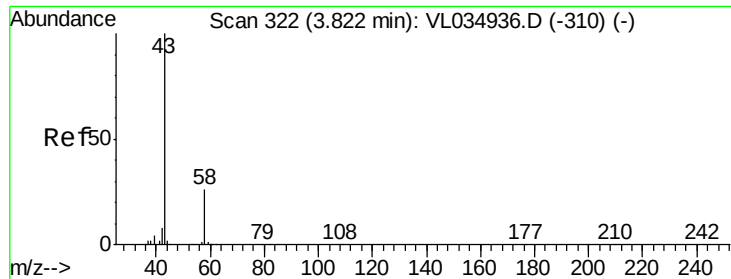
MMDadoda
5/20/2020 4:26:51 PM



#14
Bromoethene
Concen: 9.579 ppbv
RT: 3.70 min Scan# 283
Delta R.T. -0.01 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion	108	106	79	Ratio	Lower	Upper
Resp	485869					
Ratio	100	108.6	18.1			
Lower		84.9	14.1			
Upper		127.3	21.1			





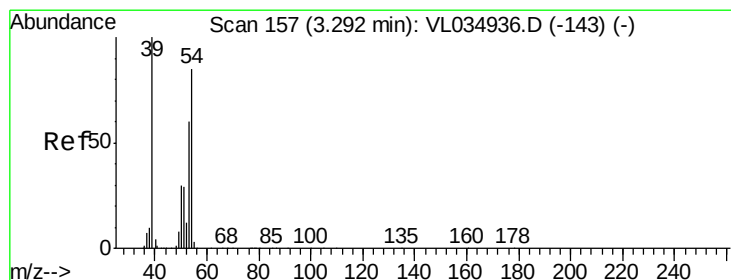
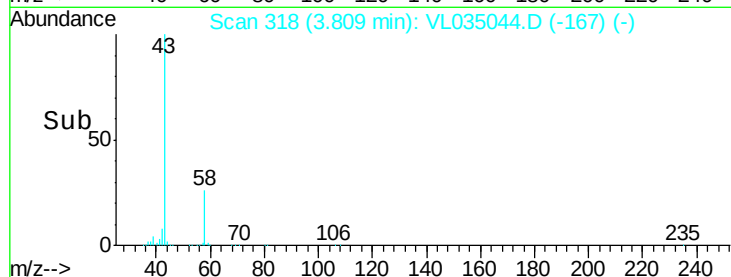
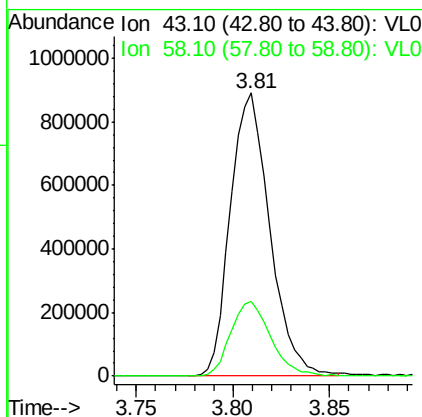
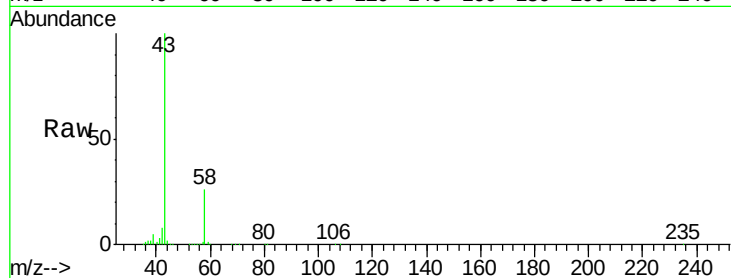
#15
Acetone
Concen: 8.108 ppbv
RT: 3.81 min Scan# 318
Delta R.T. -0.01 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion: 43 Resp: 1262653
Ion Ratio Lower Upper
43 100
58 27.0 21.7 32.5

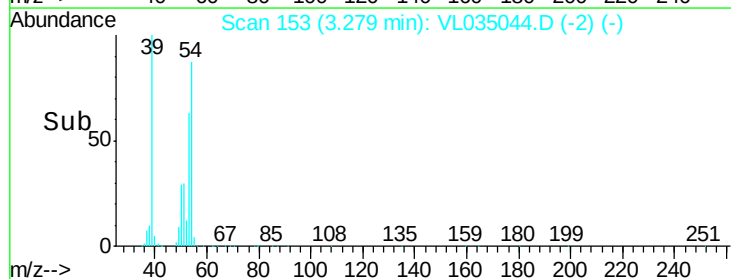
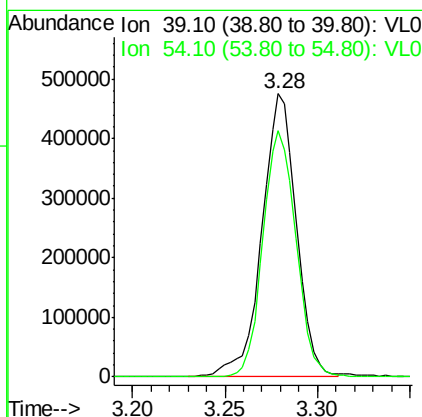
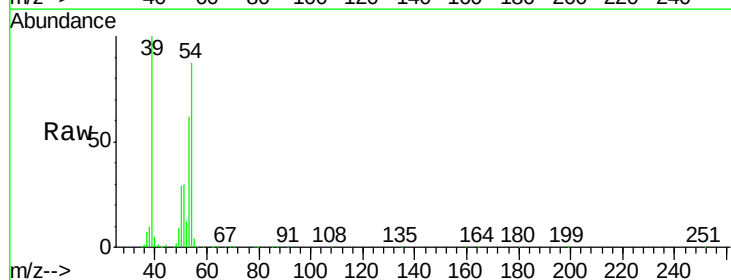
Manual Integrations
APPROVED

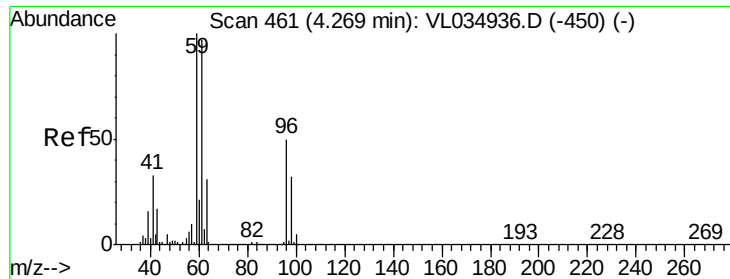
MMDadoda
5/20/2020 4:26:51 PM



#16
1,3-Butadiene
Concen: 9.226 ppbv
RT: 3.28 min Scan# 153
Delta R.T. -0.01 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion: 39 Resp: 618290
Ion Ratio Lower Upper
39 100
54 84.1 66.6 100.0





#17

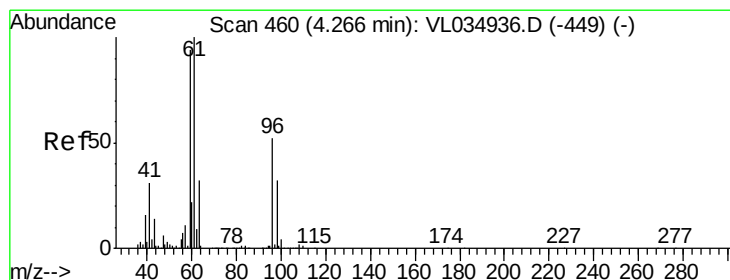
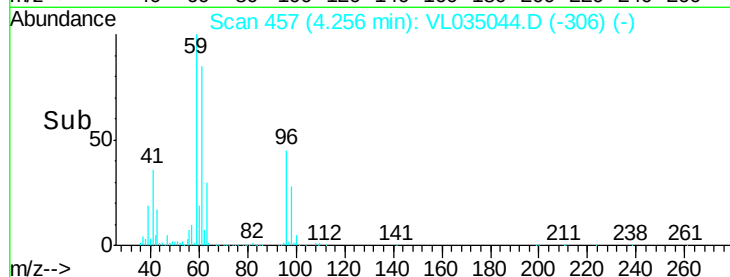
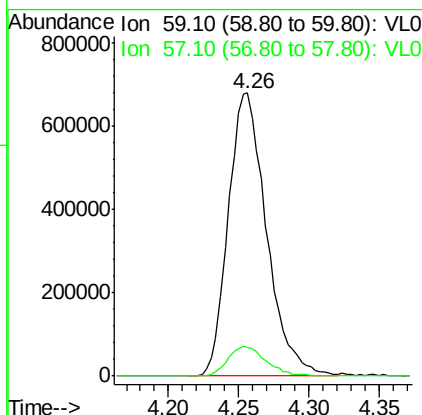
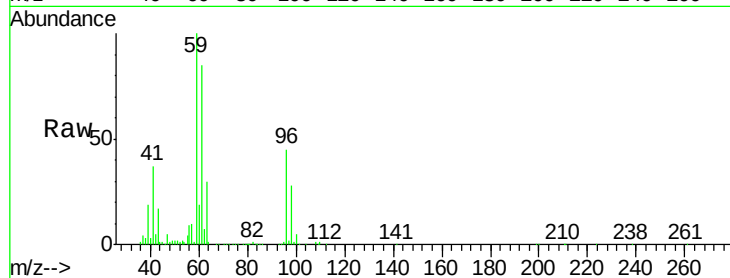
tert-Butyl alcohol
Concen: 9.303 ppbv
RT: 4.26 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion: 59 Resp: 1288877
Ion Ratio Lower Upper
59 100
57 10.7 8.7 13.1

Manual Integrations
APPROVED

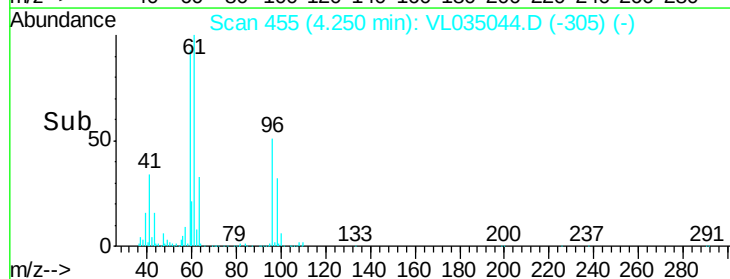
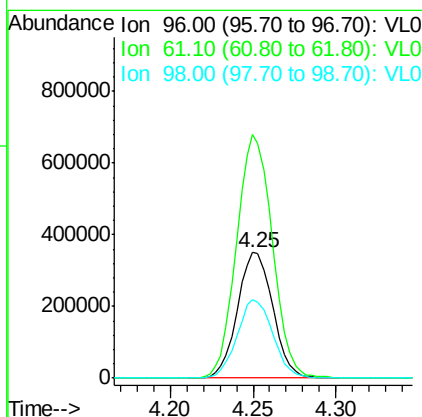
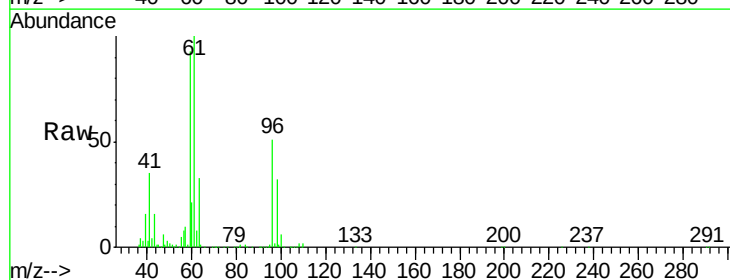
MMDadoda
5/20/2020 4:26:51 PM

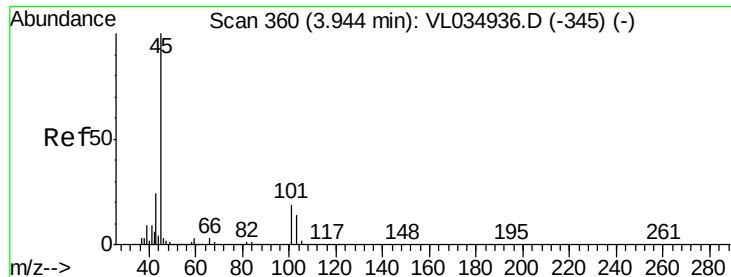


#18

1,1-Dichloroethene
Concen: 9.759 ppbv
RT: 4.25 min Scan# 455
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion: 96 Resp: 519664
Ion Ratio Lower Upper
96 100
61 194.4 152.4 228.6
98 62.6 48.8 73.2





#19

Isopropyl Alcohol

Concen: 9.053 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tot Ion: 45 Resp: 940148

Ion Ratio Lower Upper

45 100

58 2.0 1.7 2.5

Instrument :

MSVOA_L

ClientSampleId :

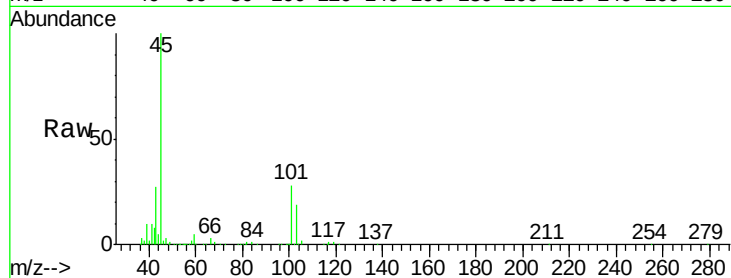
VL0519ABS01

Manual Integrations

APPROVED

MMDadoda

5/20/2020 4:26:51 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.93

600000

500000

400000

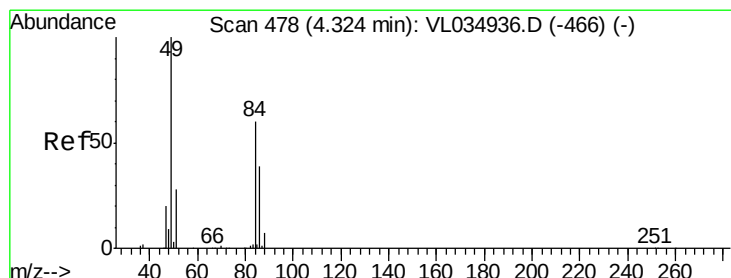
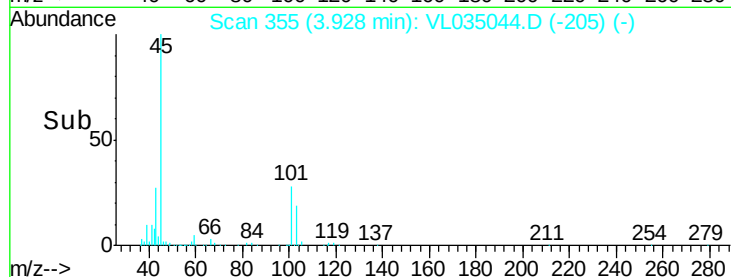
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.742 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tgt Ion: 84 Resp: 450614

Ion Ratio Lower Upper

84 100

49 155.4 132.5 198.7

51 49.5 38.4 57.6

86 67.8 51.2 76.8

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

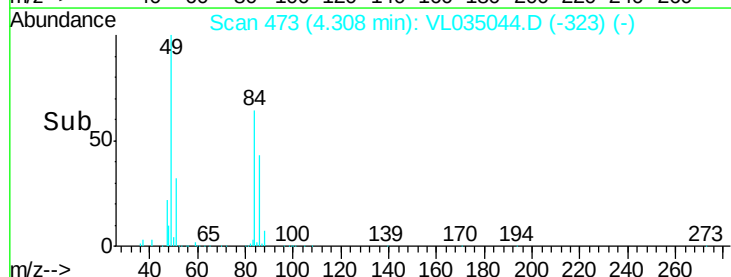
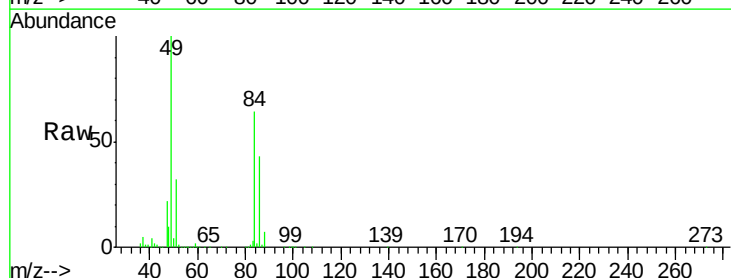
600000

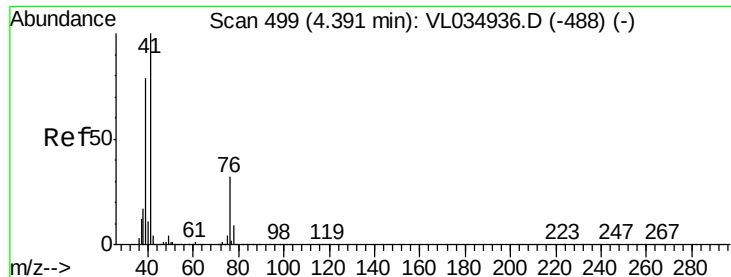
400000

200000

0

Time-->





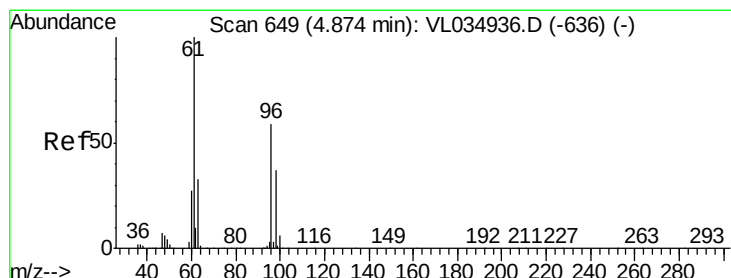
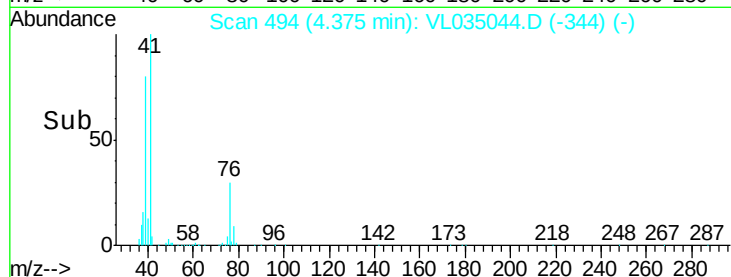
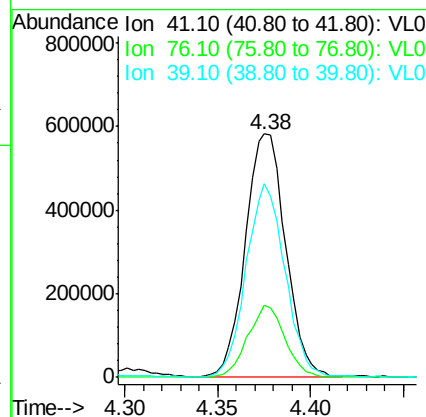
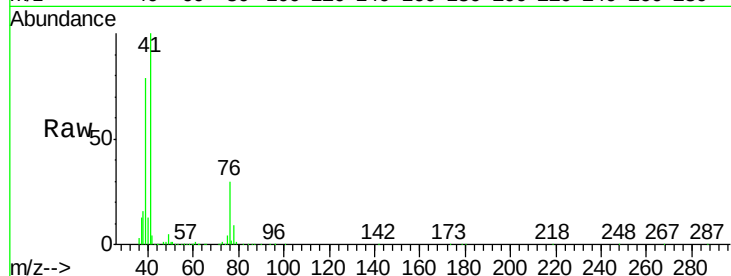
#21
Allvl Chloride
Concen: 9.961 ppbv
RT: 4.38 min Scan# 494
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion	Ratio	Resp	Lower	Upper
41	100	876131		
76	27.7		23.6	35.4
39	78.0		61.9	92.9

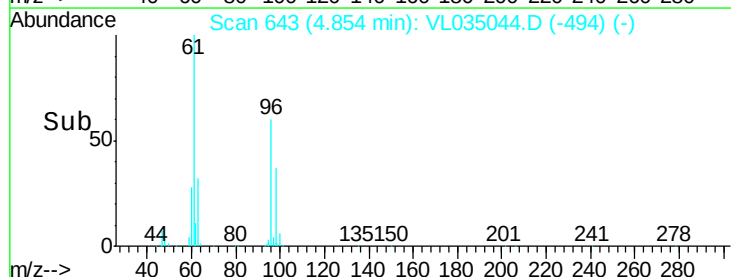
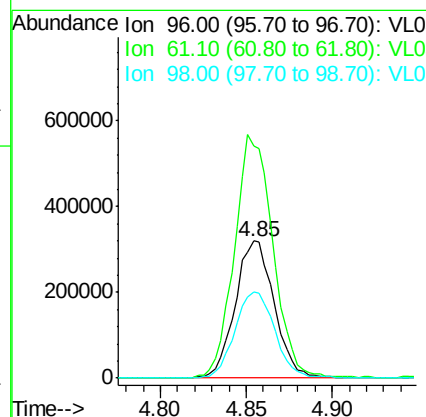
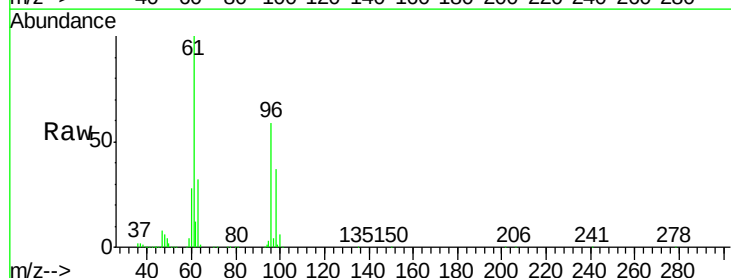
Manual Integrations
APPROVED

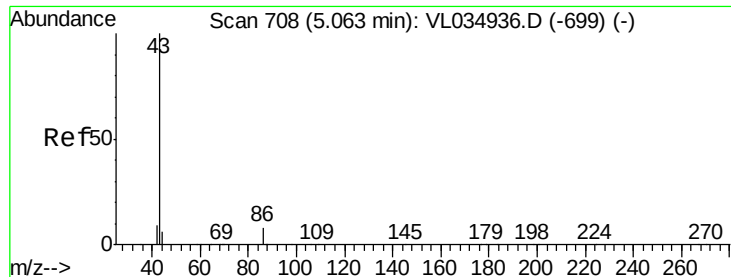
MMDadoda
5/20/2020 4:26:51 PM



#22
trans-1,2-Dichloroethene
Concen: 9.568 ppbv
RT: 4.85 min Scan# 643
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	504697		
61	169.3		135.3	202.9
98	62.8		50.4	75.6





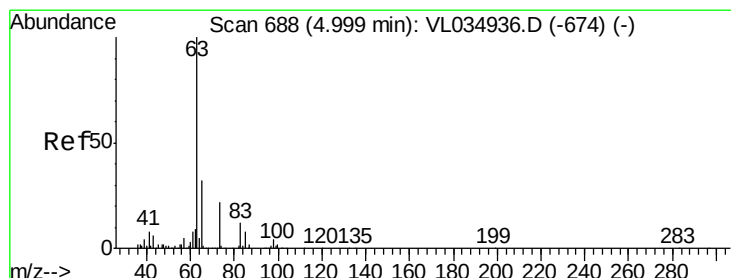
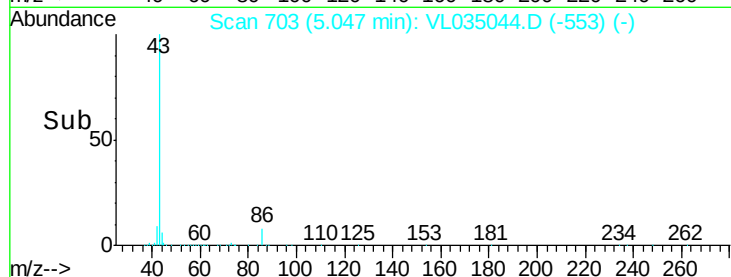
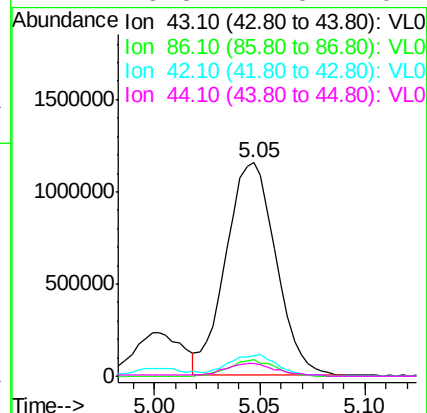
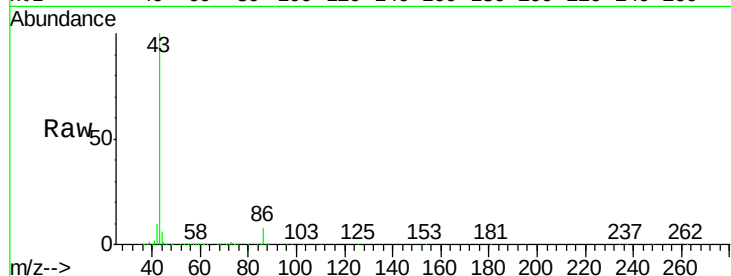
#23
 Vinyl Acetate
 Concen: 9.571 ppbv
 RT: 5.05 min Scan# 703
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.6	5.5	8.3	
42	9.6	8.0	12.0	
44	5.8	4.5	6.7	

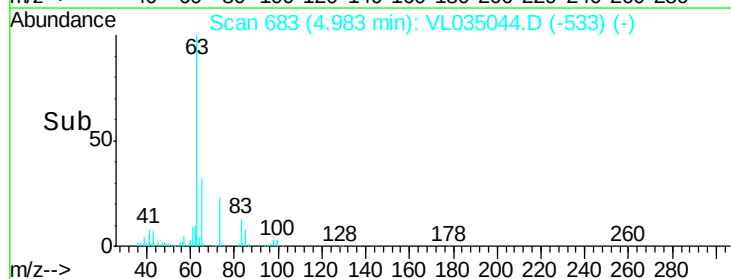
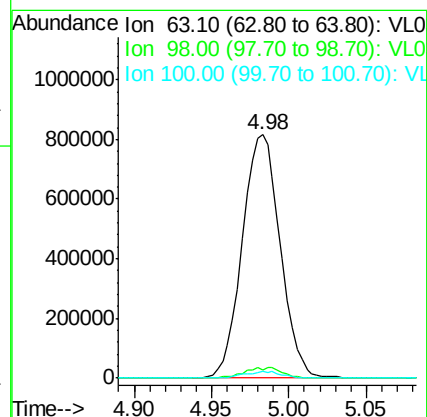
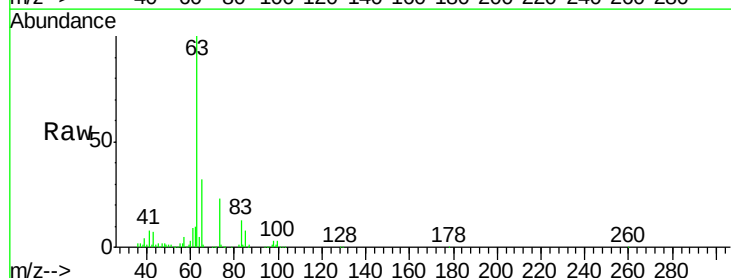
Manual Integrations
 APPROVED

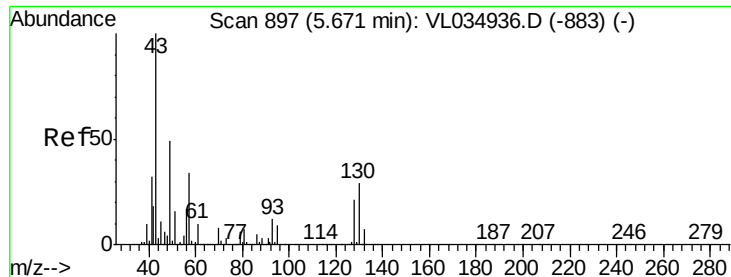
MMDadoda
 5/20/2020 4:26:51 PM



#24
 1,1-Dichloroethane
 Concen: 9.105 ppbv
 RT: 4.98 min Scan# 683
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.4	2.0	6.0	
100	2.8	1.1	3.5	





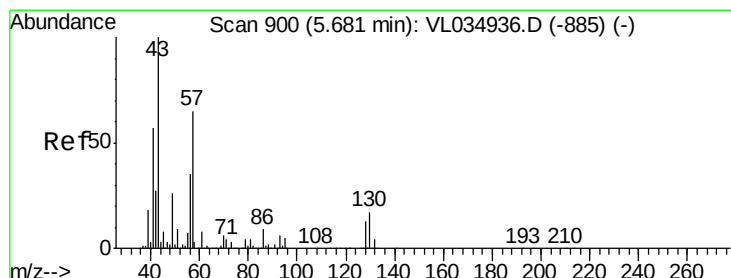
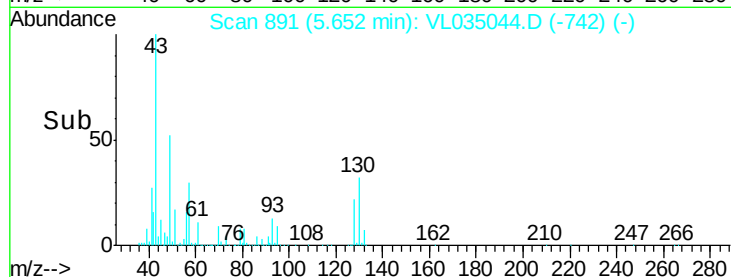
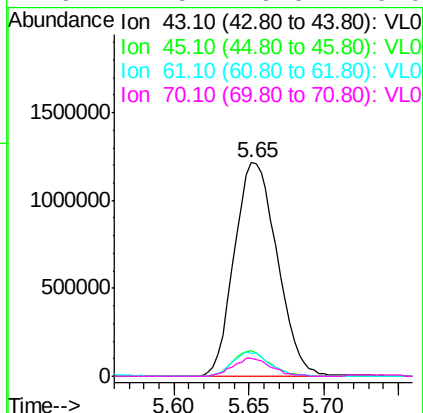
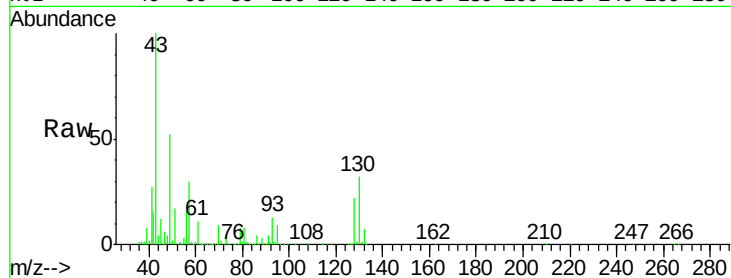
#25
Ethyl Acetate
Concen: 9.260 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.3	8.1	12.1	
61	10.0	7.8	11.8	
70	7.5	6.0	9.0	

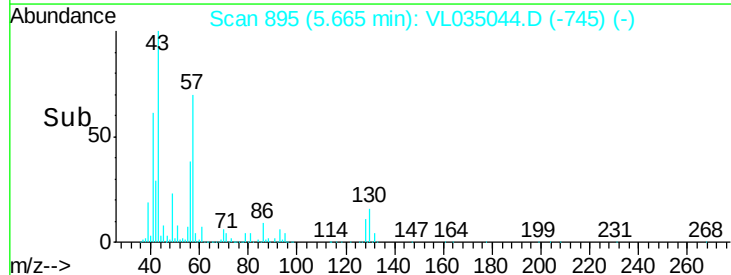
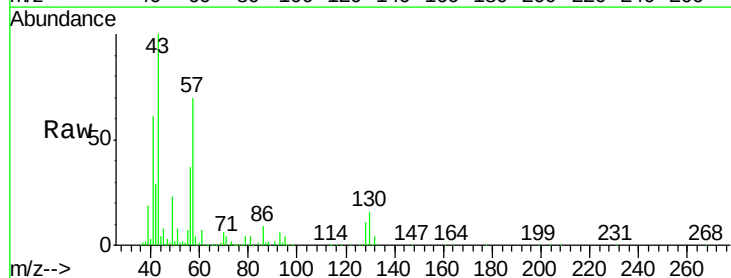
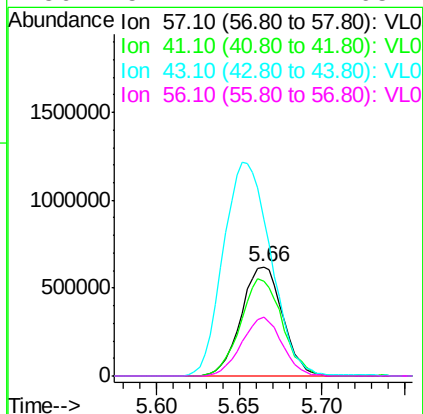
Manual Integrations
APPROVED

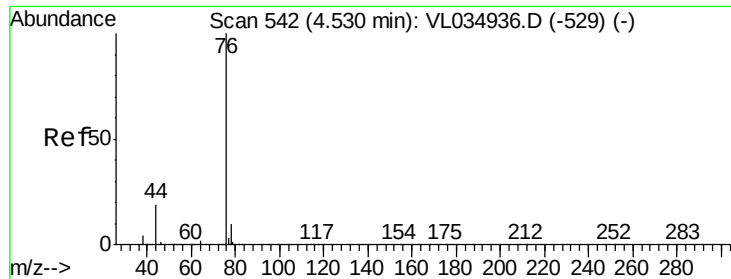
MMDadoda
5/20/2020 4:26:51 PM



#26
Hexane
Concen: 9.543 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.4	72.7	109.1	
43	225.4	182.1	273.1	
56	52.7	42.2	63.2	





#27

Carbon Disulfide

Concen: 9.767 ppbv

RT: 4.51 min Scan# 537

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 76 Resp: 1305453

Ion Ratio Lower Upper

76 100

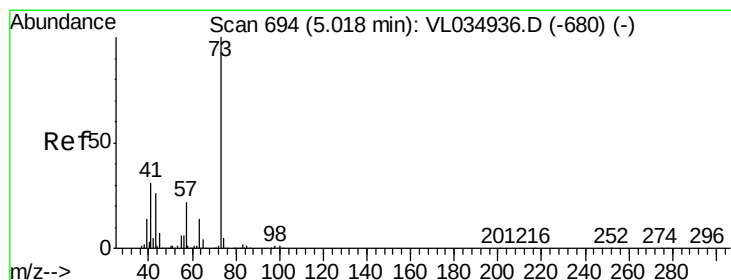
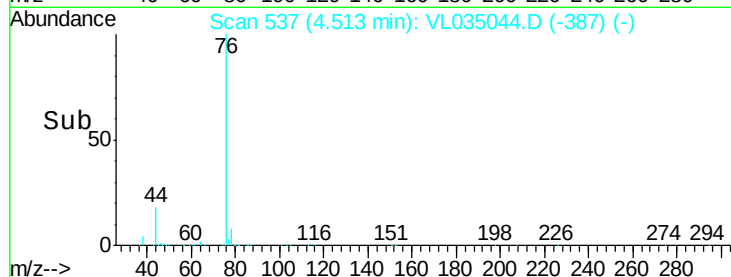
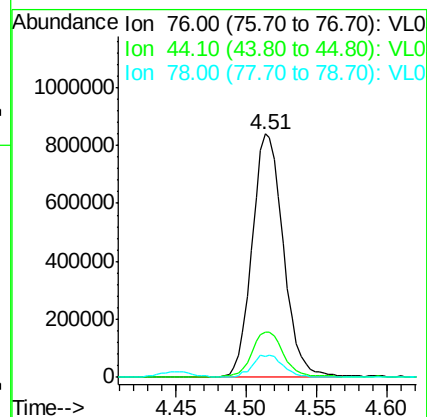
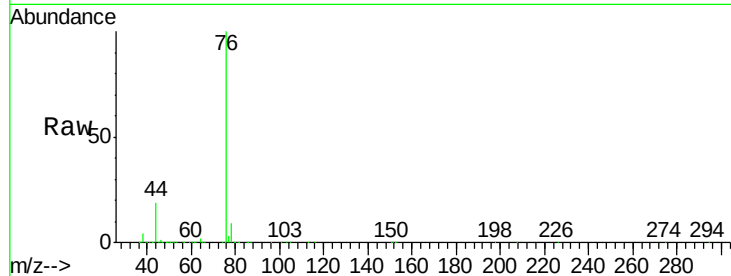
44 18.9 15.2 22.8

78 9.0 7.7 11.5

Manual Integrations
APPROVED

MMDadoda

5/20/2020 4:26:51 PM



#28

Methyl tert-Butyl Ether

Concen: 9.261 ppbv

RT: 5.00 min Scan# 689

Delta R.T. -0.02 min

Lab File: VL035044.D

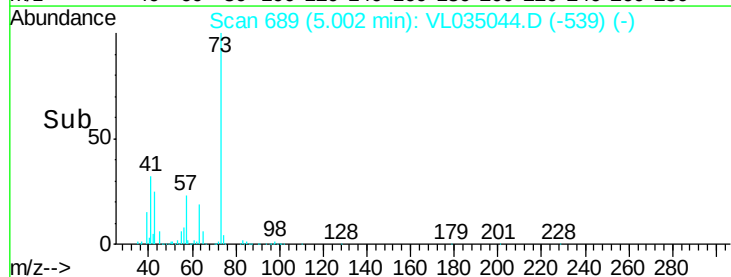
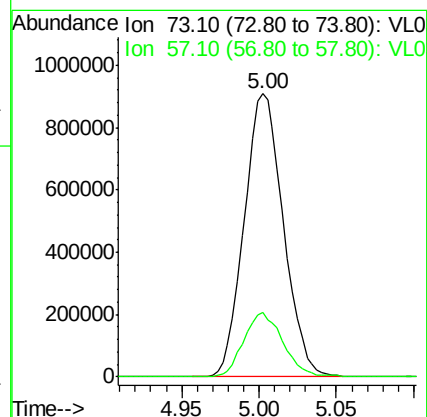
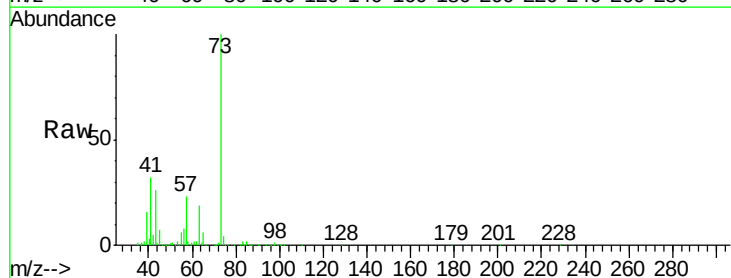
Acq: 19 May 2020 14:22

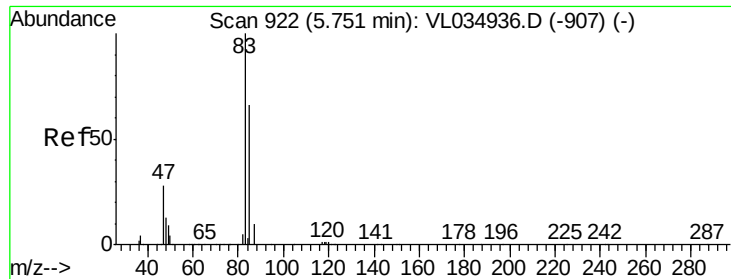
Tgt Ion: 73 Resp: 1599391

Ion Ratio Lower Upper

73 100

57 22.9 18.3 27.5





#29

Chloroform

Concen: 9.124 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 83 Resp: 1692930

Ion Ratio Lower Upper

83 100

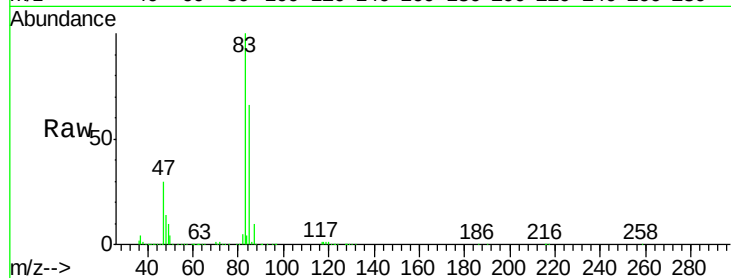
85 65.5 53.0 79.6

Manual Integrations

APPROVED

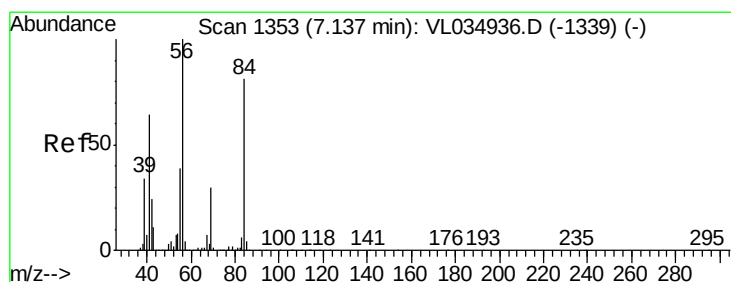
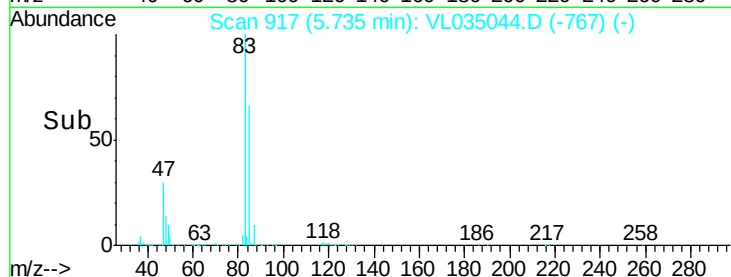
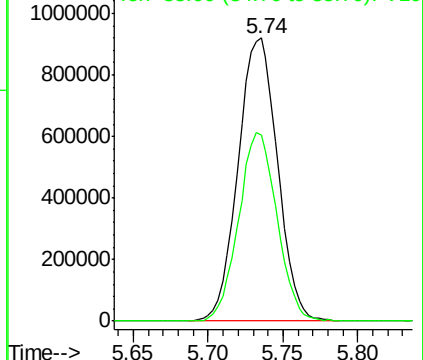
MMDadoda

5/20/2020 4:26:51 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 10.244 ppbv

RT: 7.12 min Scan# 1347

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

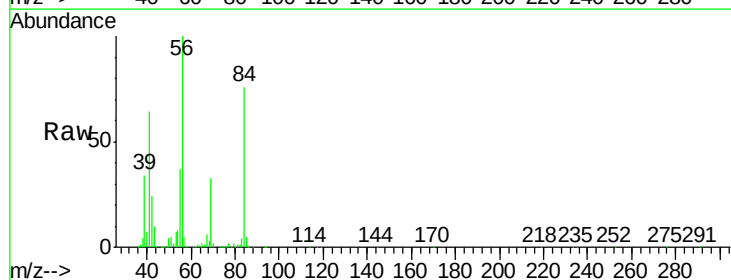
Tgt Ion: 84 Resp: 896440

Ion Ratio Lower Upper

84 100

56 138.4 111.4 167.2

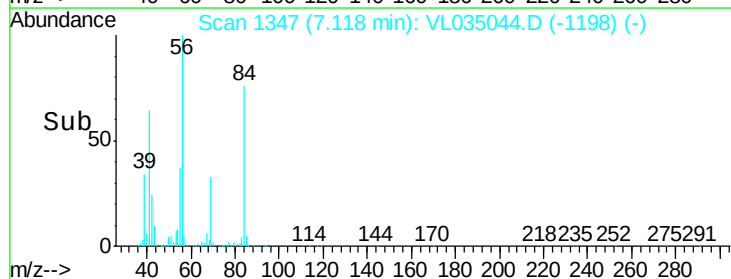
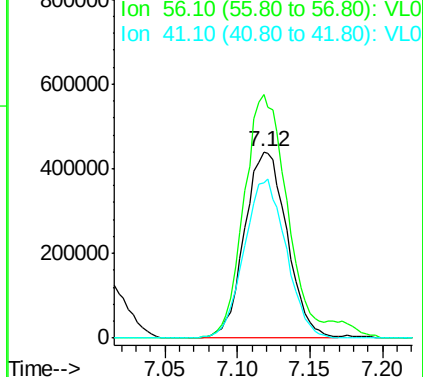
41 84.3 66.7 100.1

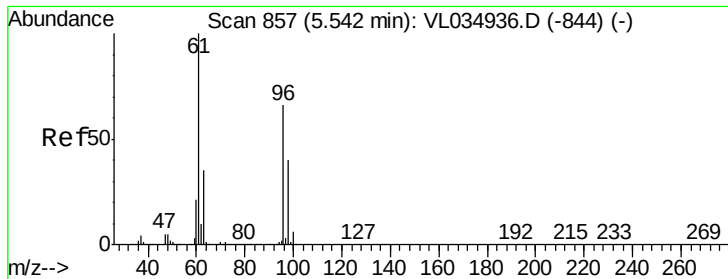


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

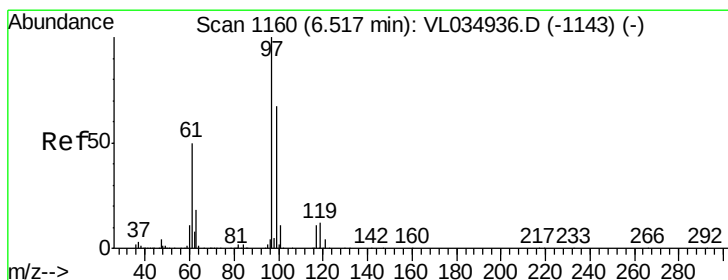
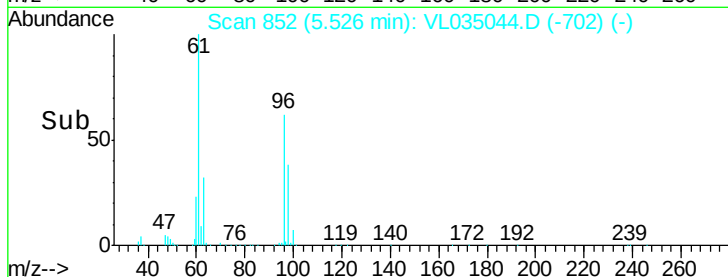
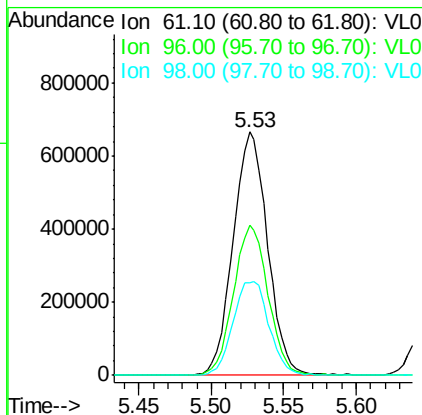
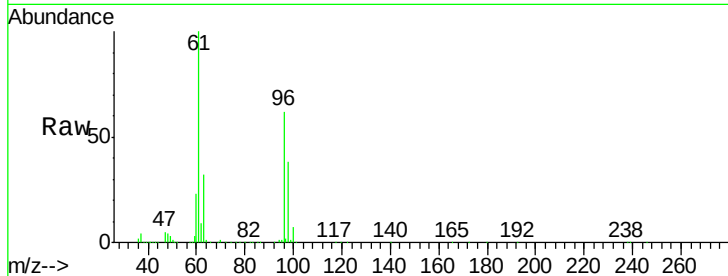
cis-1,2-Dichloroethene
Concen: 9.904 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.8	53.0	79.6
98	38.3	32.2	48.2

Manual Integrations
APPROVED

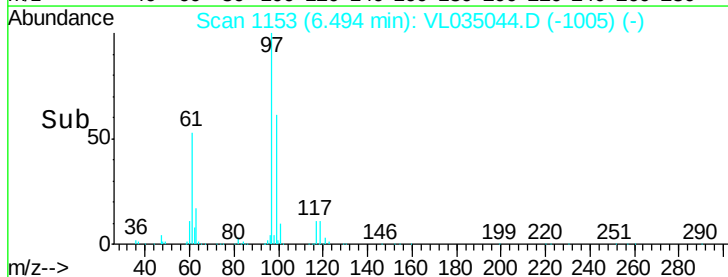
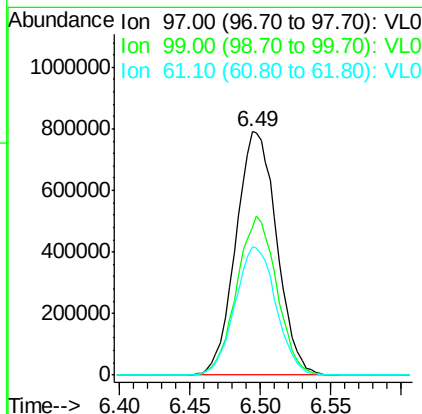
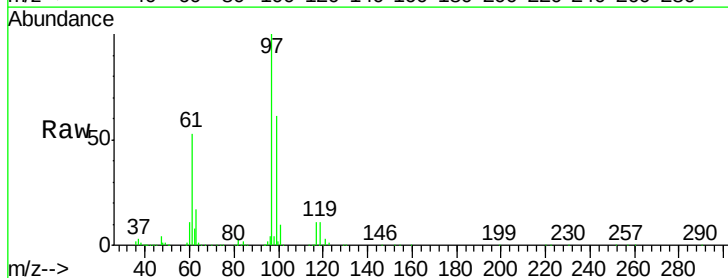
MMDadoda
5/20/2020 4:26:51 PM

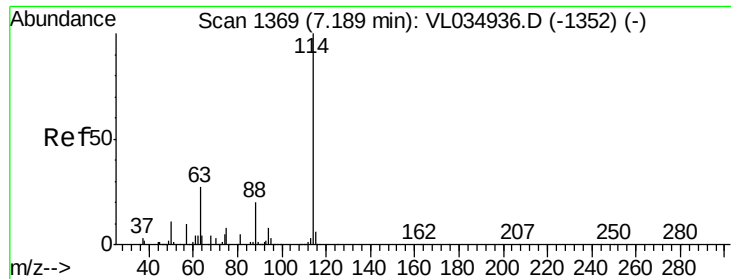


#32

1,1,1-Trichloroethane
Concen: 9.514 ppbv
RT: 6.49 min Scan# 1153
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.1	78.1
61	53.3	41.8	62.8





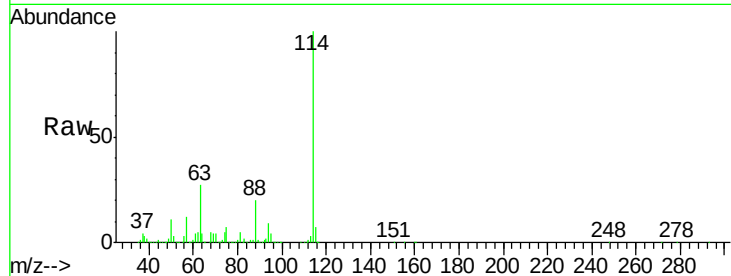
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.2	33.4
88	19.7	15.5	23.3

Manual Integrations
 APPROVED

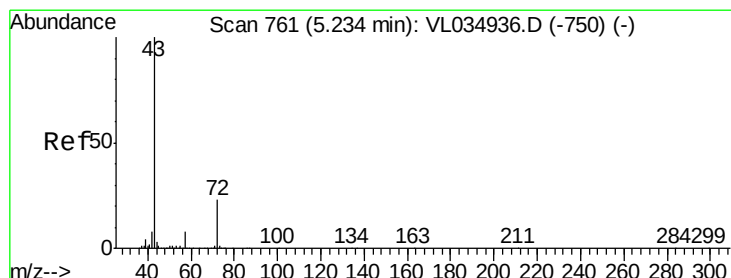
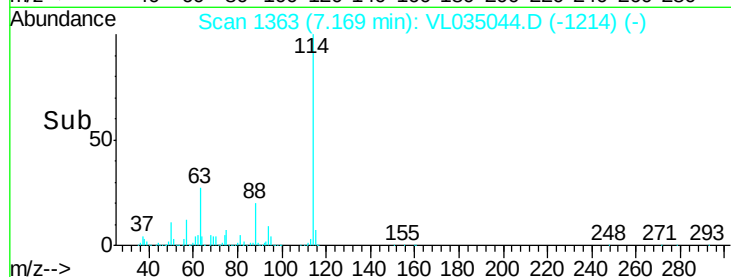
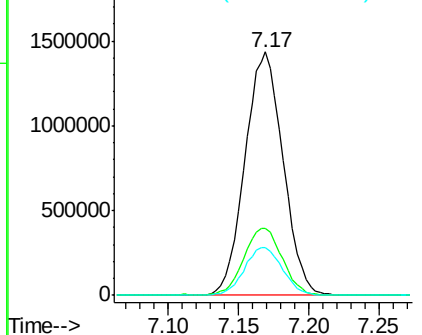
MMDadoda
 5/20/2020 4:26:51 PM



Abundance Ion 114.10 (113.80 to 114.80): VL035044.D (-1214) (-)

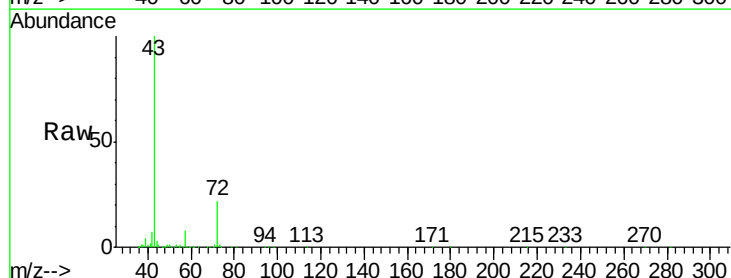
Ion 63.10 (62.80 to 63.80): VL035044.D (-1214) (-)

Ion 88.10 (87.80 to 88.80): VL035044.D (-1214) (-)



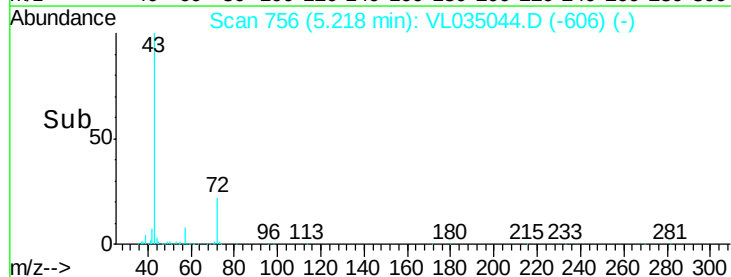
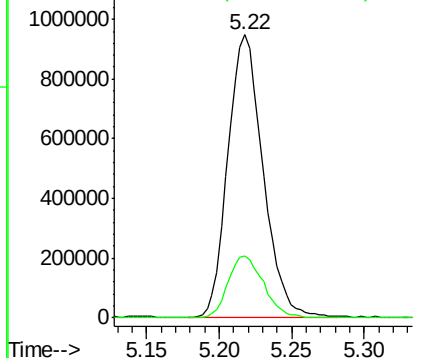
#34
 2-Butanone
 Concen: 9.417 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

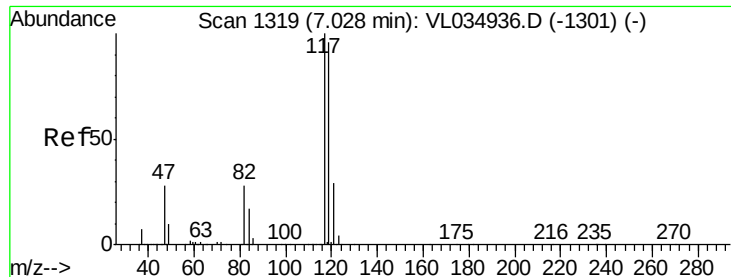
Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.0	27.0



Abundance Ion 43.10 (42.80 to 43.80): VL035044.D (-606) (-)

Ion 72.10 (71.80 to 72.80): VL035044.D (-606) (-)





#35

Carbon Tetrachloride

Concen: 9.556 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion:117 Resp: 1638338

Ion Ratio Lower Upper

117 100

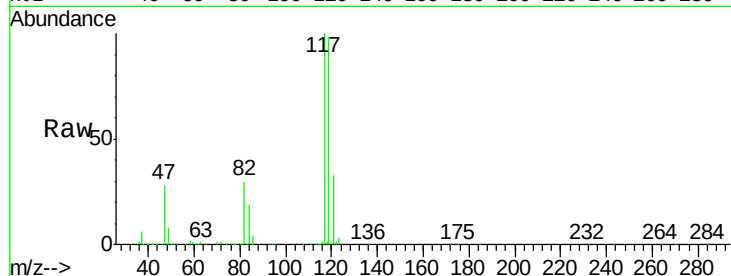
119 97.9 77.0 115.6

121 33.0 23.0 34.6

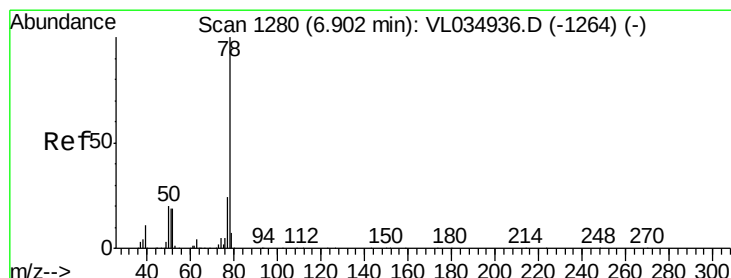
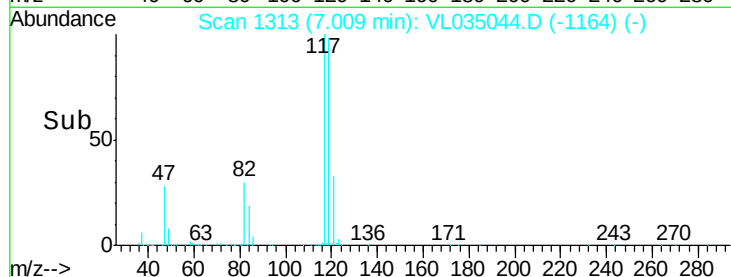
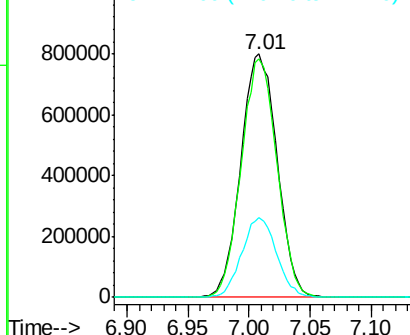
Manual Integrations
APPROVED

MMDadoda

5/20/2020 4:26:51 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: 9.659 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

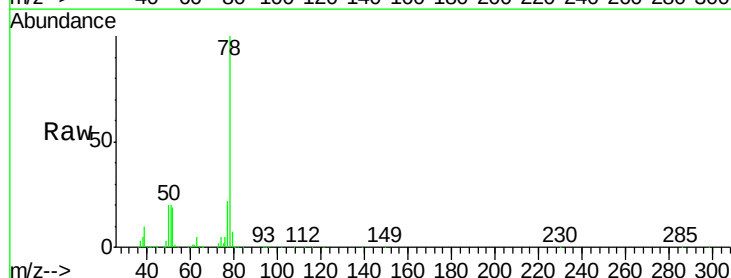
Tgt Ion: 78 Resp: 2163121

Ion Ratio Lower Upper

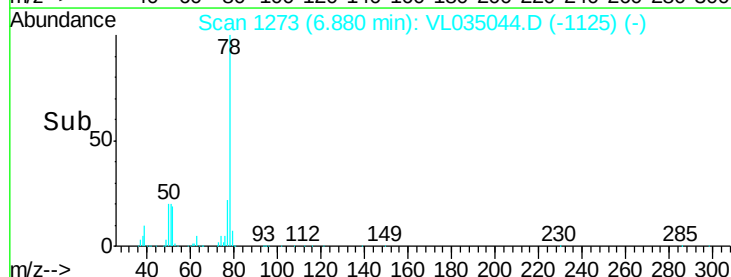
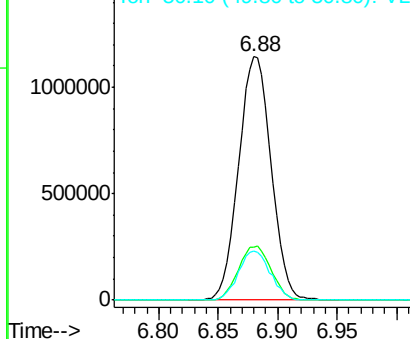
78 100

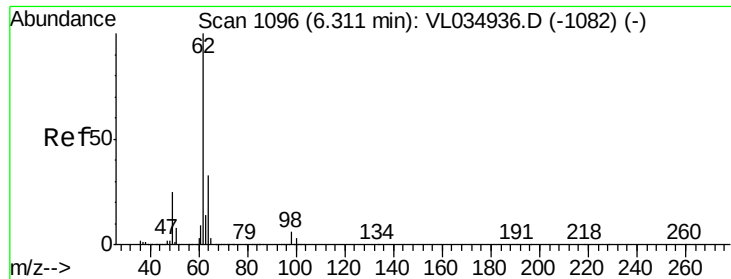
77 21.5 19.0 28.6

50 20.3 15.8 23.8



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





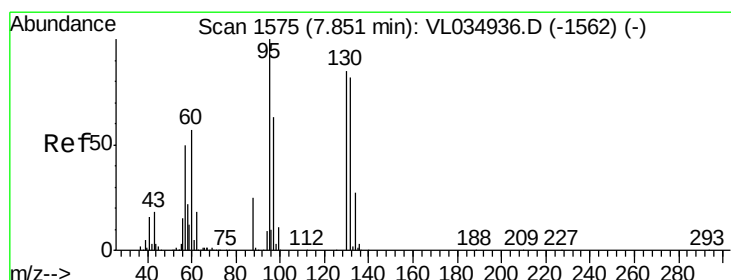
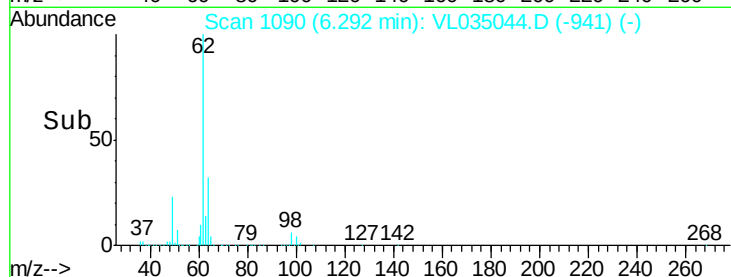
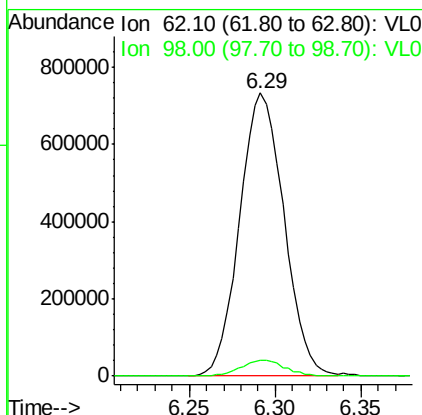
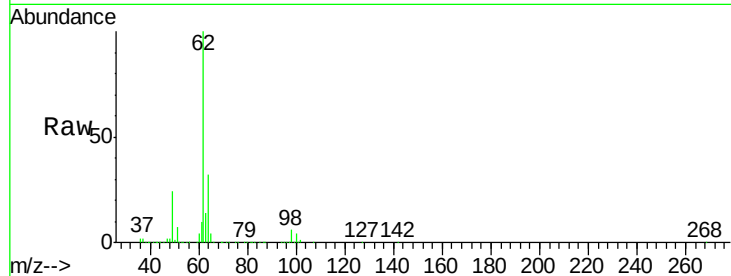
#37
 1,2-Dichloroethane
 Concen: 9.468 ppbv
 RT: 6.29 min Scan# 1090
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.8	4.8	7.2

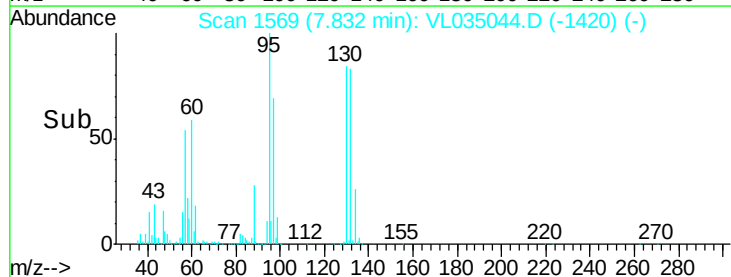
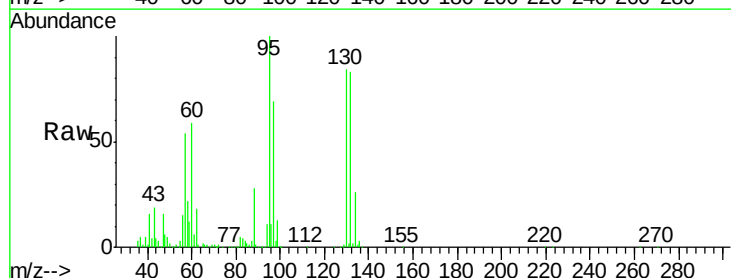
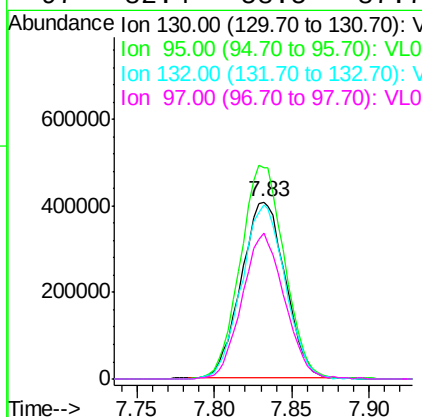
Manual Integrations
 APPROVED

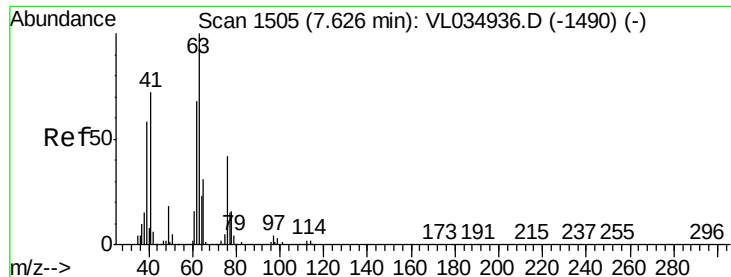
MMDadoda
 5/20/2020 4:26:51 PM



#38
 Trichloroethene
 Concen: 9.336 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	119.5	93.4	140.0
132	99.0	76.4	114.6
97	82.4	58.5	87.7





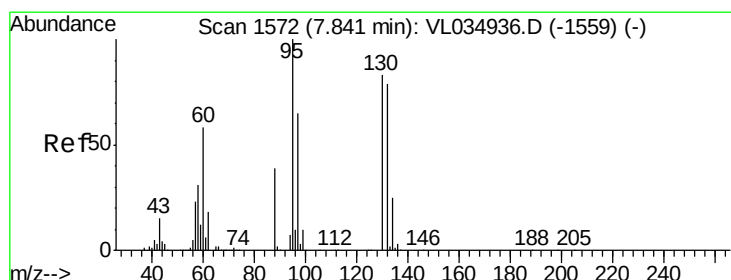
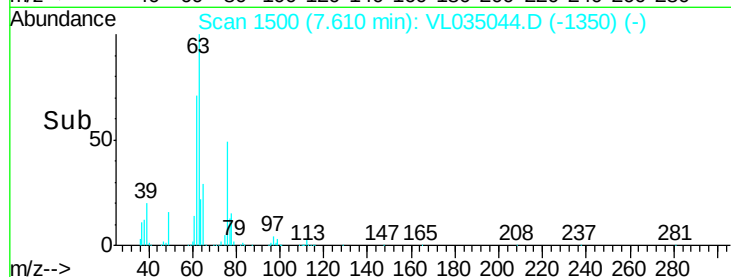
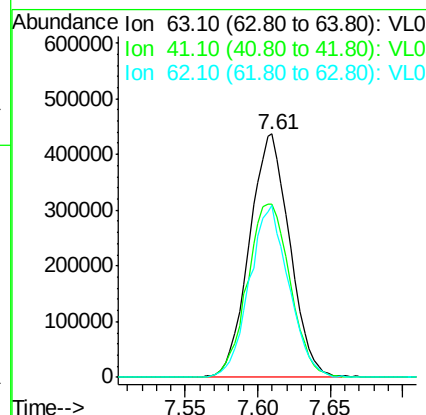
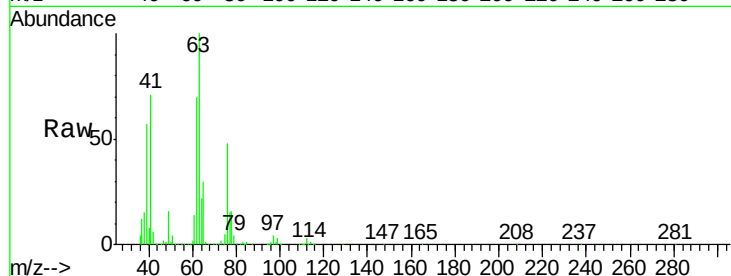
#39
 1,2-Dichloropropane
 Concen: 9.420 ppbv
 RT: 7.61 min Scan# 1500
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	71.0	57.8	86.8
62	70.4	54.2	81.2

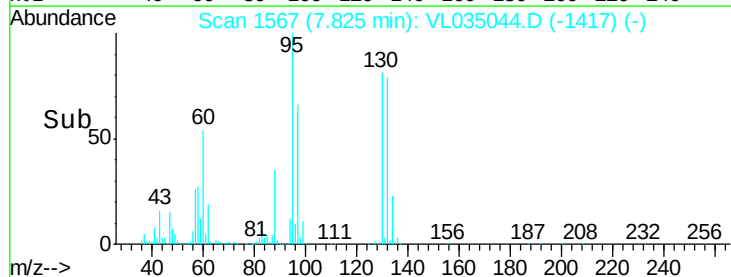
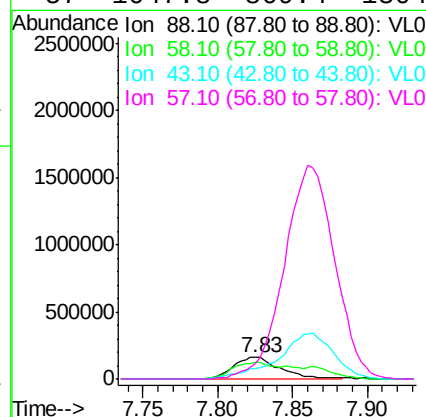
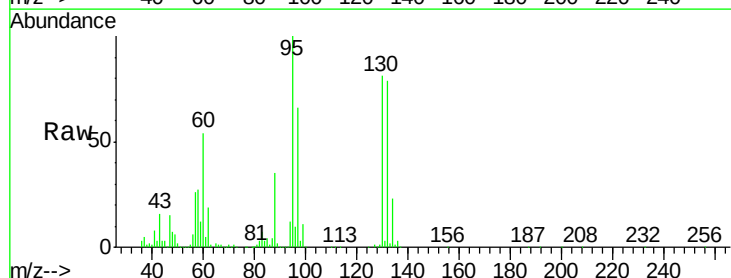
Manual Integrations
 APPROVED

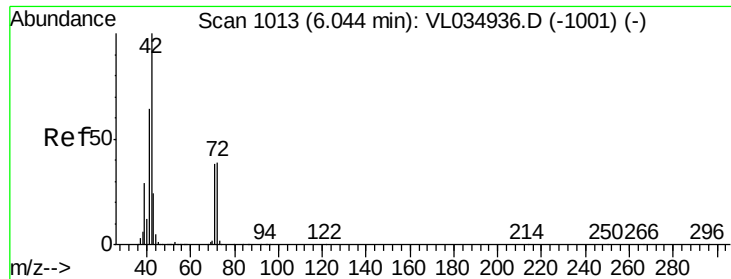
MMDadoda
 5/20/2020 4:26:51 PM



#40
 1,4-Dioxane
 Concen: 9.762 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
88	100		
58	125.8	105.1	157.7
43	246.3	202.6	303.8
57	1047.8	869.4	1304.0





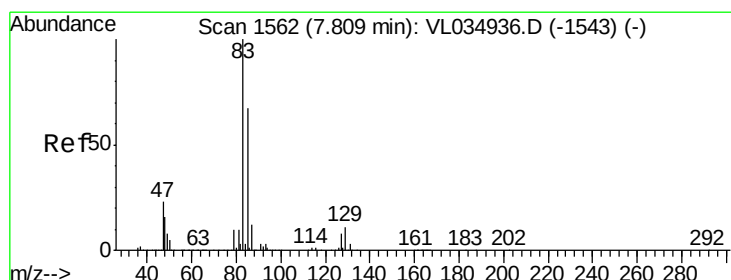
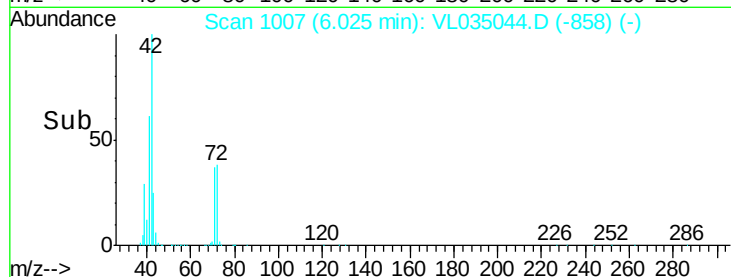
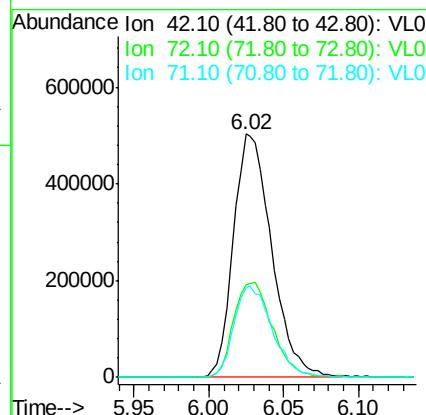
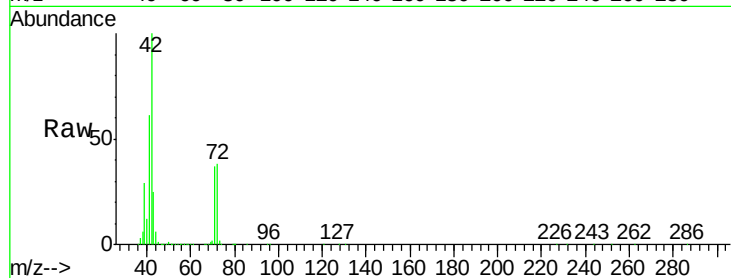
#41
Tetrahydrofuran
Concen: 10.008 ppbv
RT: 6.02 min Scan# 1007
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.1	31.4	47.0
71	37.8	29.8	44.8

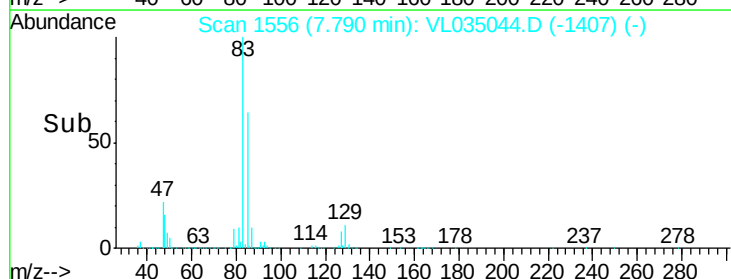
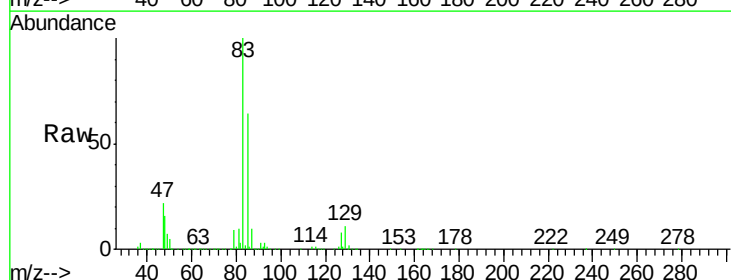
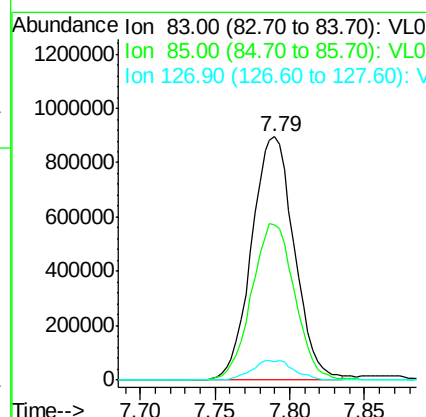
Manual Integrations
APPROVED

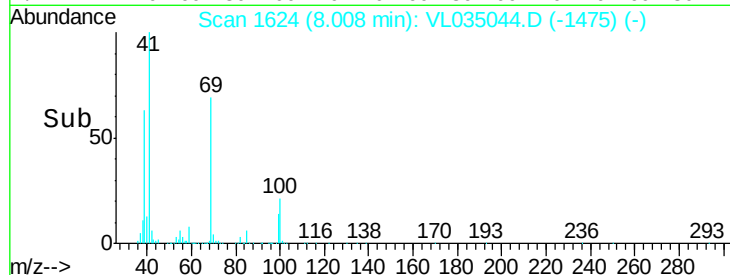
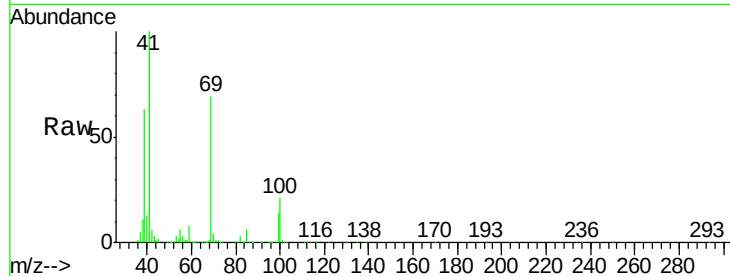
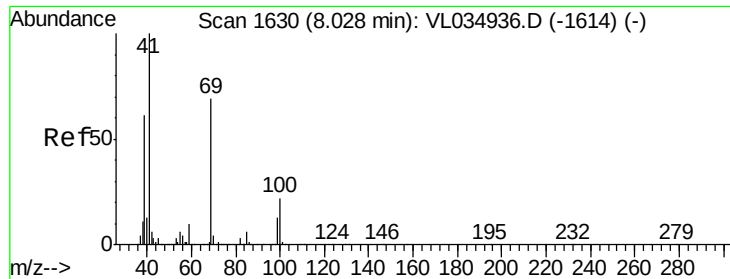
MMDadoda
5/20/2020 4:26:51 PM



#42
Bromodichloromethane
Concen: 9.535 ppbv
RT: 7.79 min Scan# 1556
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.4	80.0
127	7.8	6.1	9.1





#43

Methyl Methacrylate

Concen: 10.477 ppbv

RT: 8.01 min Scan# 1624

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tot Ion:	69	Resp:	990794
Ion Ratio	Lower	Upper	
69	100		
41	145.3	119.8	179.6
100	31.0	25.0	37.6

Instrument :

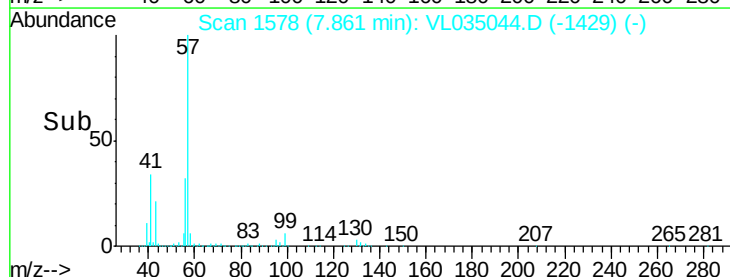
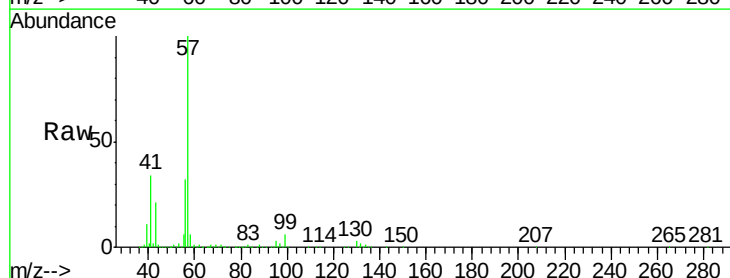
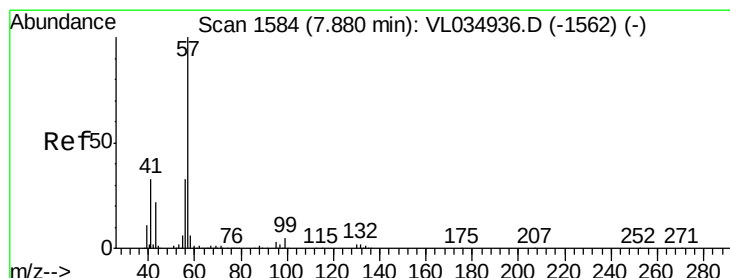
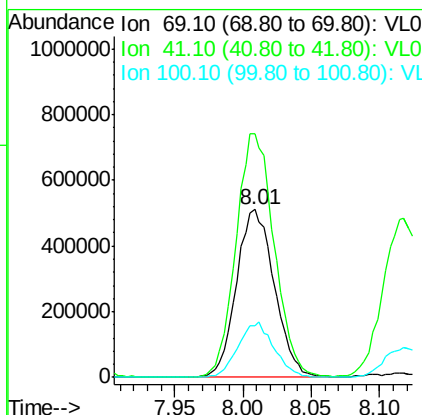
MSVOA_L

ClientSampleId :

VL0519ABS01

Manual Integrations
APPROVED

MMDadoda
5/20/2020 4:26:51 PM



#44

2,2,4-Trimethylpentane

Concen: 9.364 ppbv

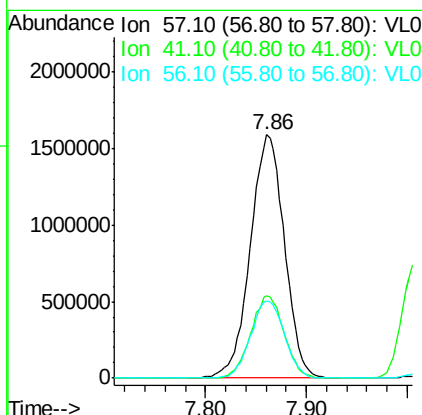
RT: 7.86 min Scan# 1578

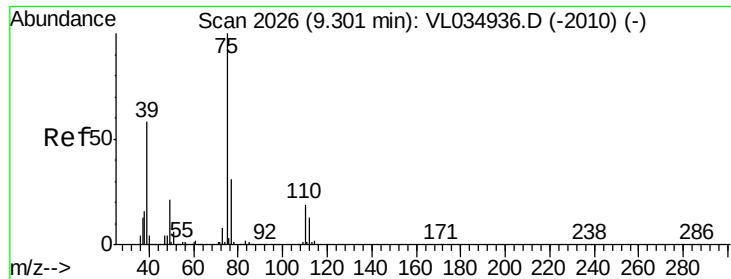
Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tgt Ion:	57	Resp:	3728457
Ion Ratio	Lower	Upper	
57	100		
41	32.9	26.4	39.6
56	31.4	25.5	38.3





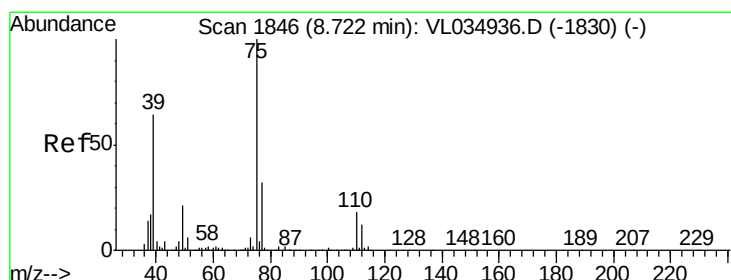
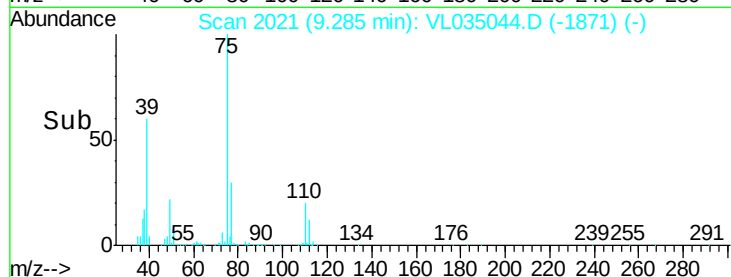
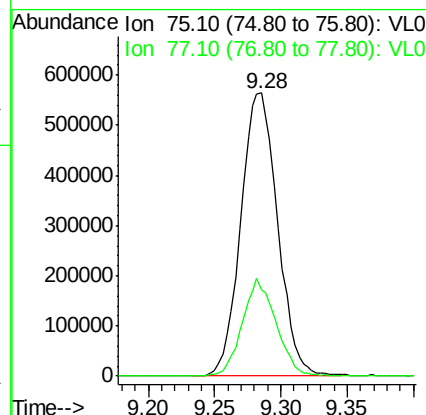
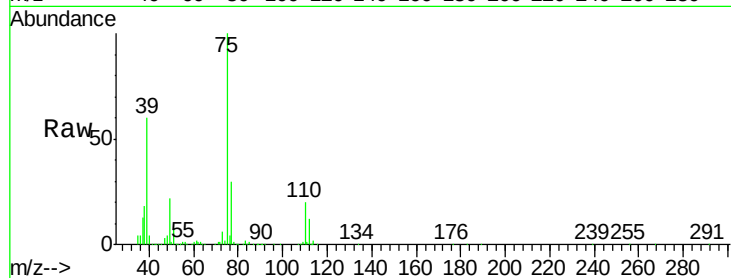
#45
t-1,3-Dichloropropene
Concen: 11.379 ppbv
RT: 9.28 min Scan# 2021
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion: 75 Resp: 1085891
Ion Ratio Lower Upper
75 100
77 30.3 24.9 37.3

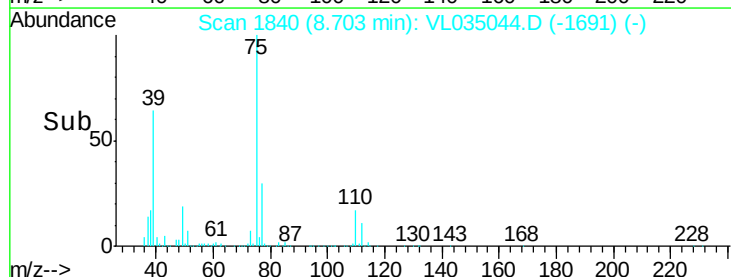
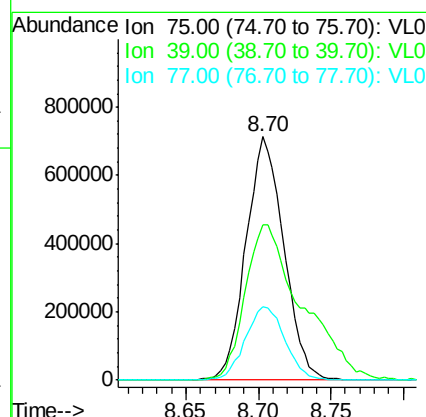
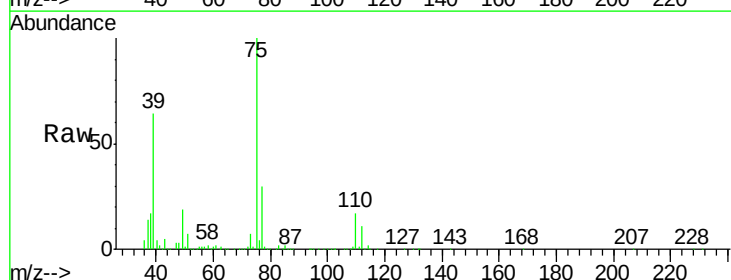
Manual Integrations
APPROVED

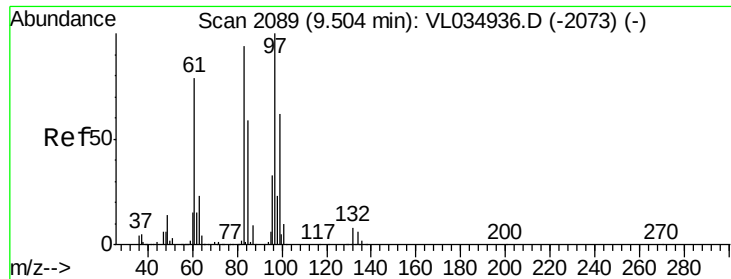
MMDadoda
5/20/2020 4:26:51 PM



#46
cis-1,3-Dichloropropene
Concen: 11.058 ppbv
RT: 8.70 min Scan# 1840
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion: 75 Resp: 1295685
Ion Ratio Lower Upper
75 100
39 63.5 51.5 77.3
77 30.3 25.5 38.3





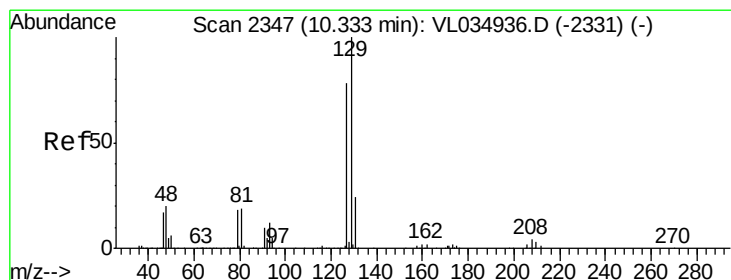
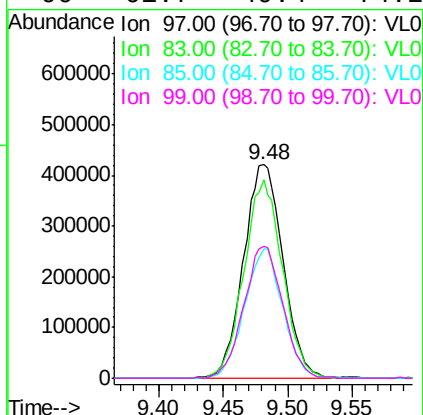
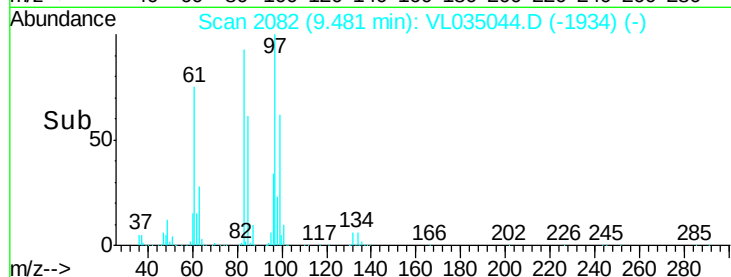
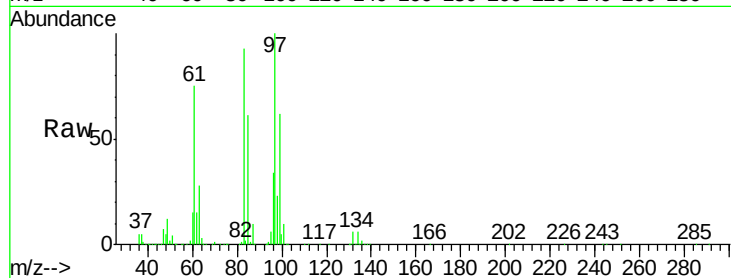
#47
 1,1,2-Trichloroethane
 Concen: 9.492 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		899275		
83	92.6	75.6	113.4		
85	60.7	47.0	70.6		
99	61.7	49.4	74.2		

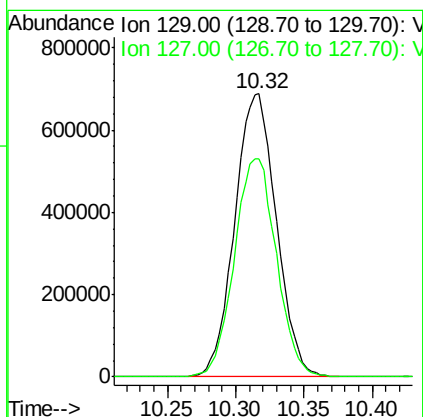
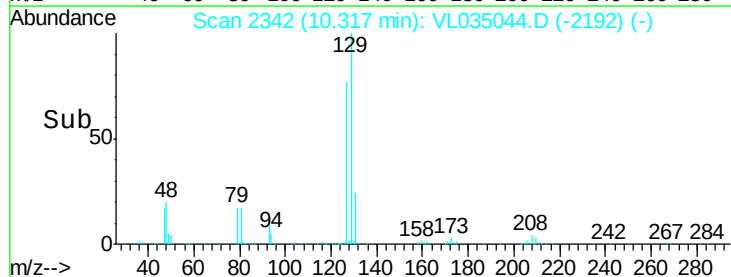
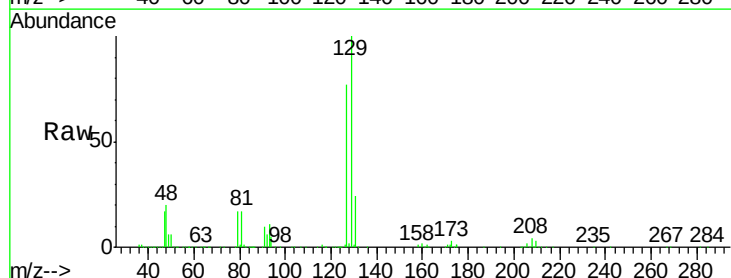
Manual Integrations
 APPROVED

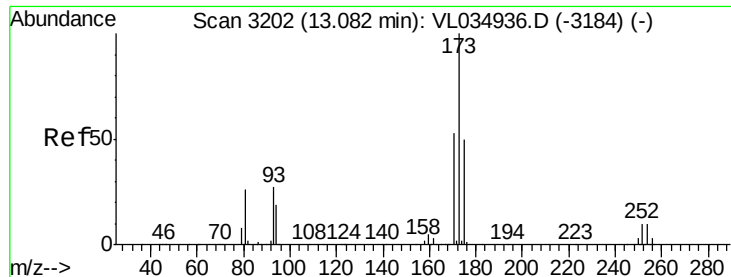
MMDadoda
 5/20/2020 4:26:51 PM



#48
 Dibromochloromethane
 Concen: 9.998 ppbv
 RT: 10.32 min Scan# 2342
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1456592		
127	78.2	39.1	117.2		





#49

Bromoform

Concen: 10.045 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion:173 Resp: 1259219

Ion Ratio Lower Upper

173 100

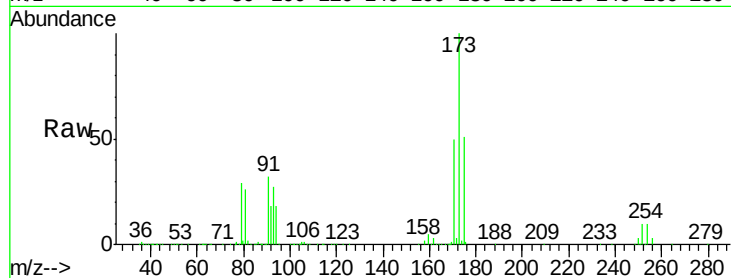
175 49.6 39.0 58.6

171 52.2 41.4 62.2

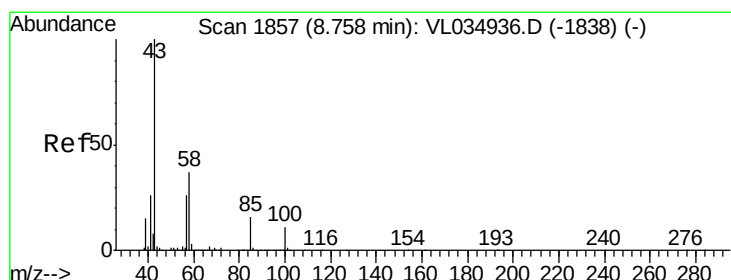
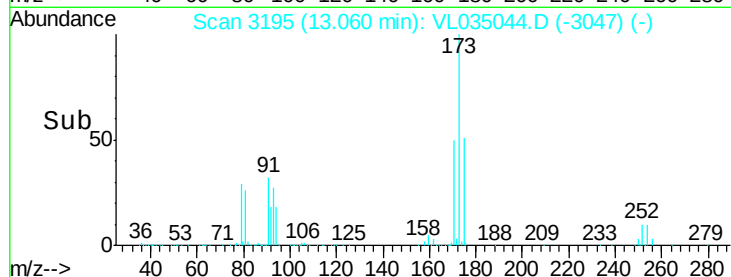
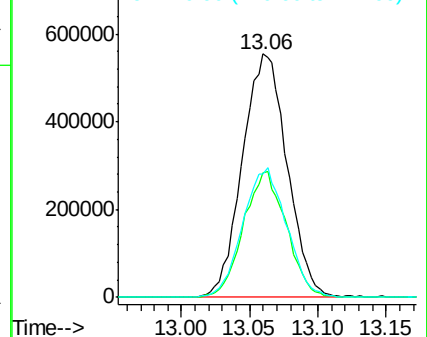
Manual Integrations
APPROVED

MMDadoda

5/20/2020 4:26:51 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: 9.840 ppbv

RT: 8.74 min Scan# 1851

Delta R.T. -0.02 min

Lab File: VL035044.D

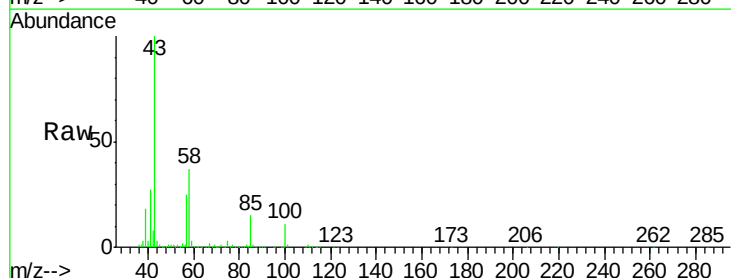
Acq: 19 May 2020 14:22

Tgt Ion: 43 Resp: 2369008

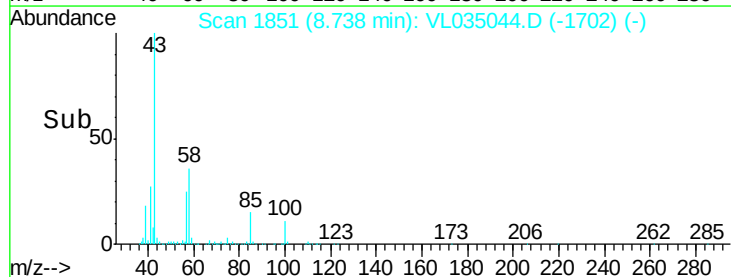
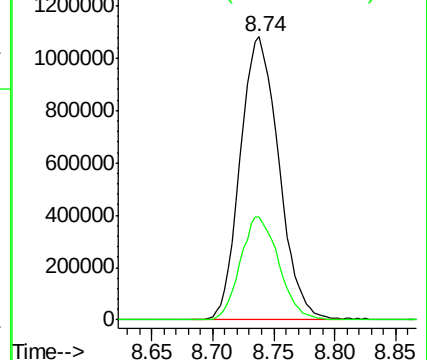
Ion Ratio Lower Upper

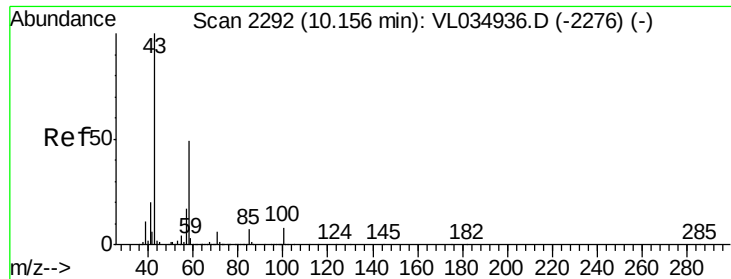
43 100

58 36.2 29.1 43.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.320 ppbv

RT: 10.13 min Scan# 2285

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 43 Resp: 1943190

Ion Ratio Lower Upper

43 100

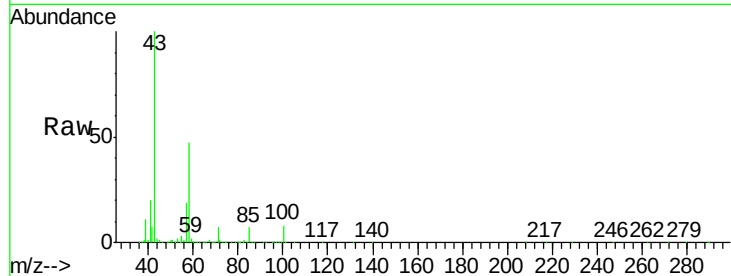
58 48.5 39.1 58.7

98 0.3 0.3 0.5

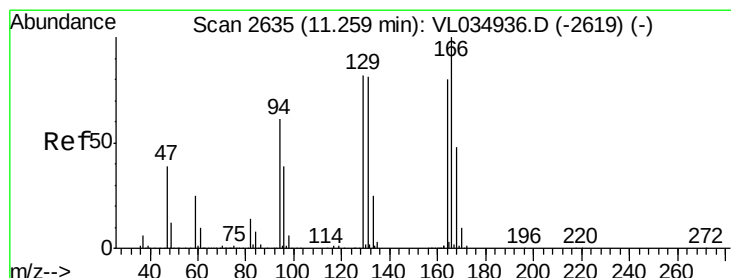
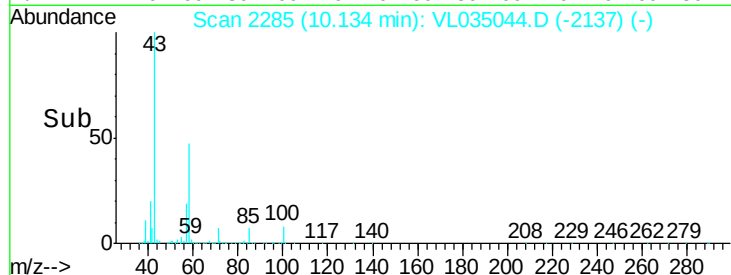
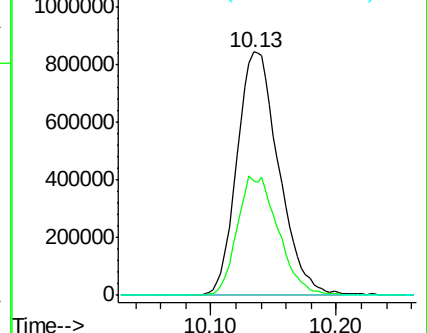
Manual Integrations
APPROVED

MMDadoda

5/20/2020 4:26:51 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: 9.388 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.03 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tgt Ion: 164 Resp: 747624

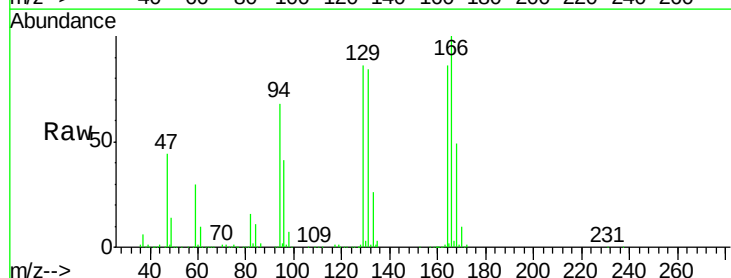
Ion Ratio Lower Upper

164 100

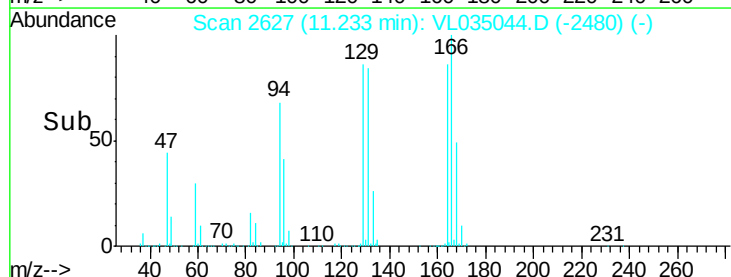
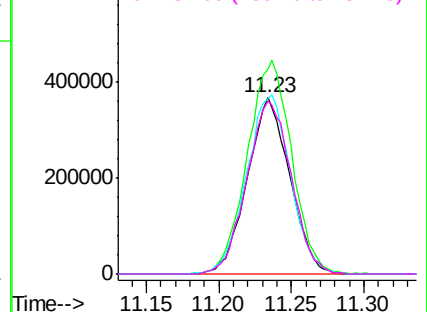
166 115.9 100.7 151.1

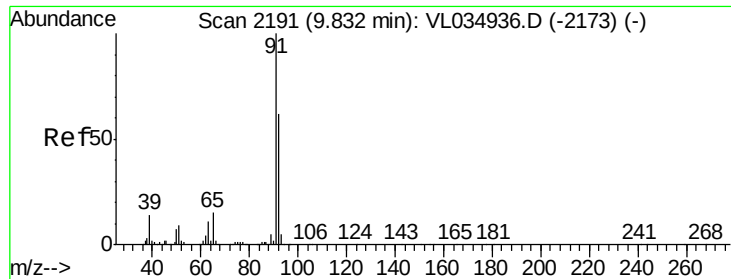
129 99.1 83.0 124.4

131 97.6 81.0 121.4



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: 10.427 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 91 Resp: 2475536

Ion Ratio Lower Upper

91 100

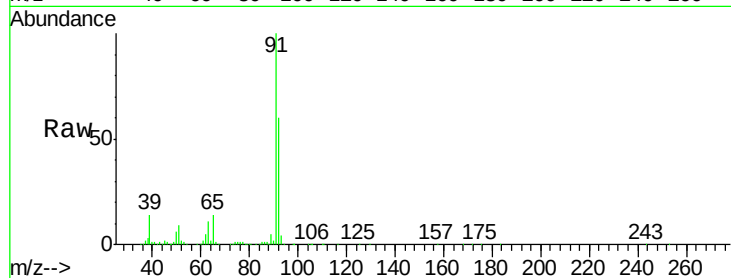
92 60.4 48.6 73.0

Manual Integrations

APPROVED

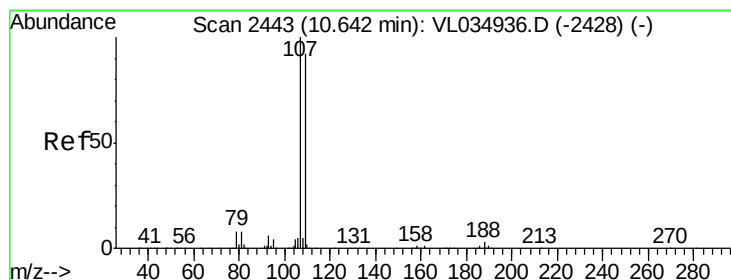
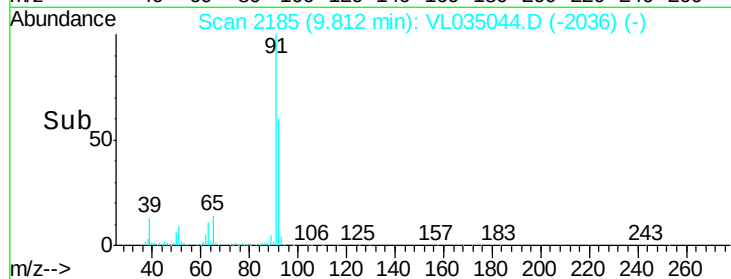
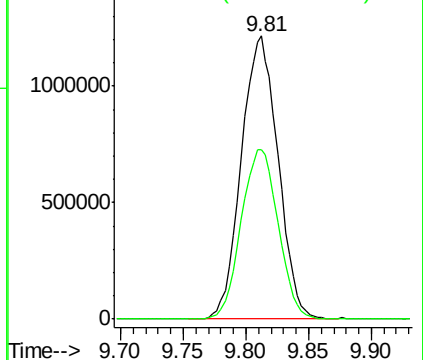
MMDadoda

5/20/2020 4:26:51 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.653 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. -0.02 min

Lab File: VL035044.D

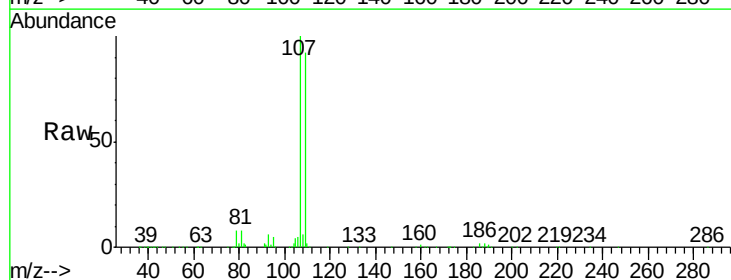
Acq: 19 May 2020 14:22

Tgt Ion:107 Resp: 1343011

Ion Ratio Lower Upper

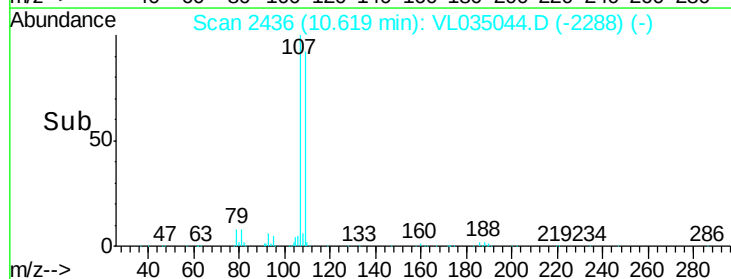
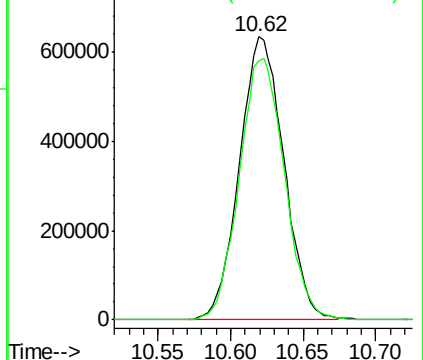
107 100

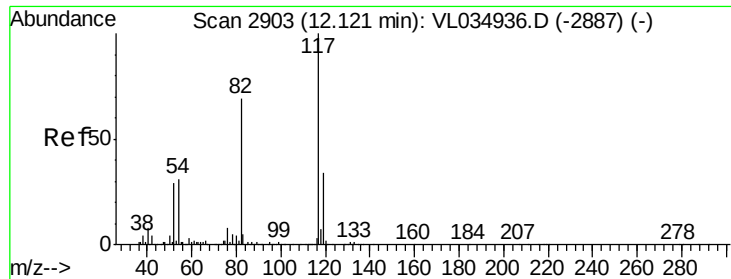
109 91.7 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





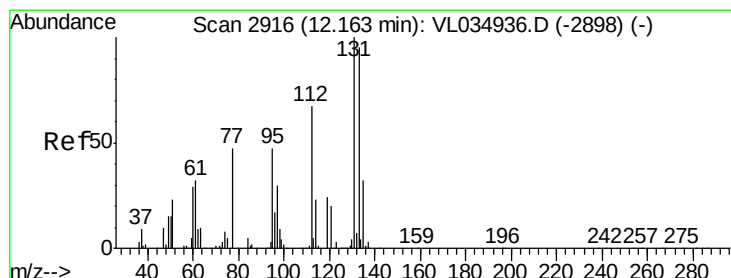
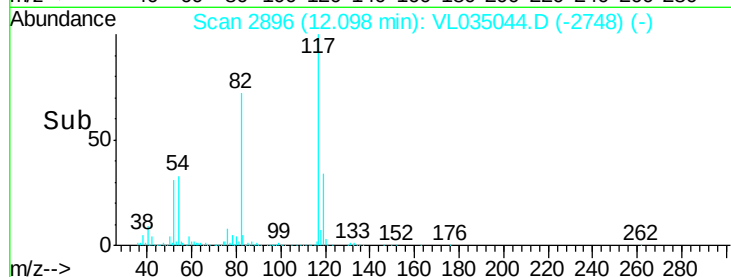
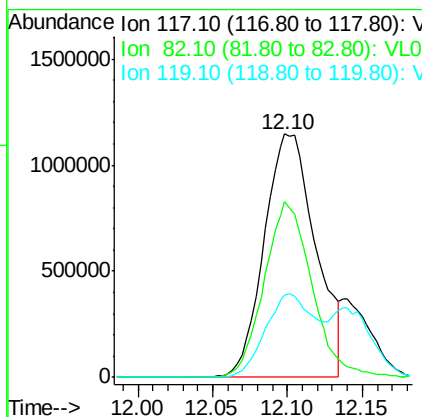
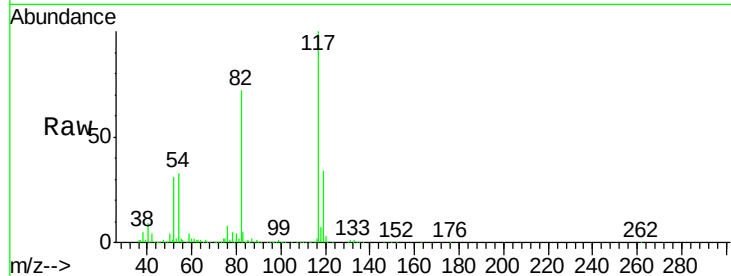
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion:117 Resp: 2743005
Ion Ratio Lower Upper
117 100
82 66.9 53.1 79.7
119 31.0 26.7 40.1

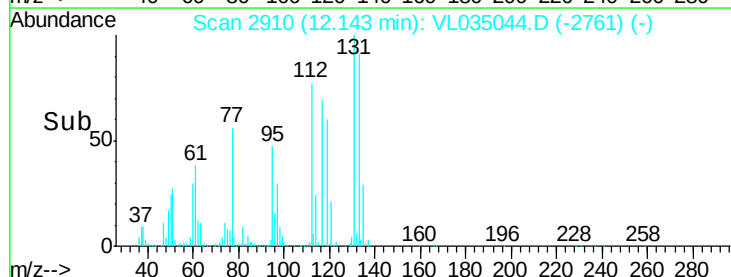
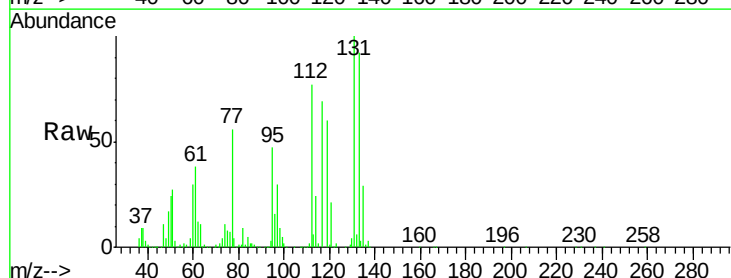
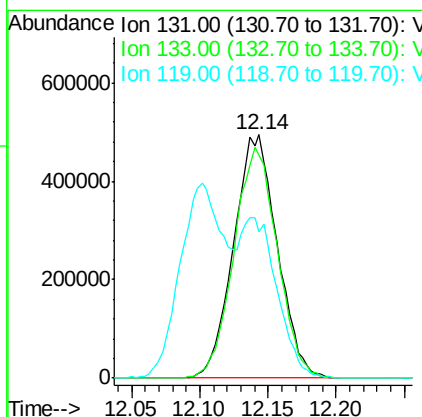
Manual Integrations
APPROVED

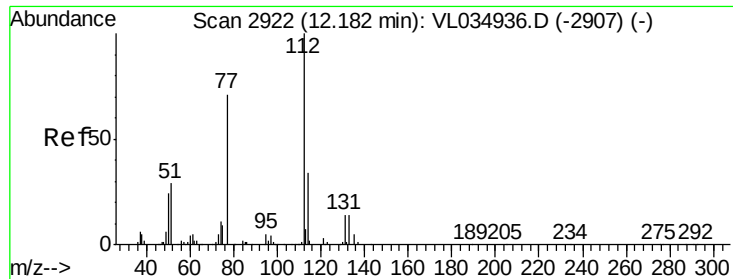
MMDadoda
5/20/2020 4:26:51 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.827 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion:131 Resp: 1091941
Ion Ratio Lower Upper
131 100
133 95.1 77.7 116.5
119 58.3 49.8 74.6





#57

Chlorobenzene

Concen: 8.655 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

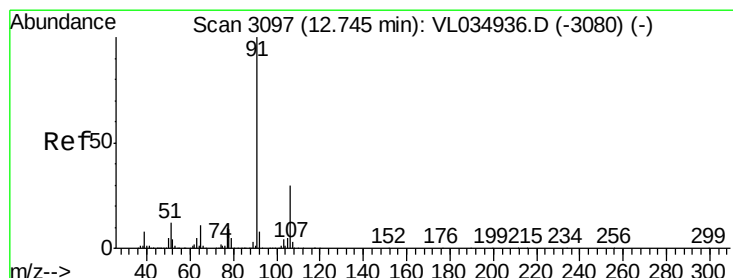
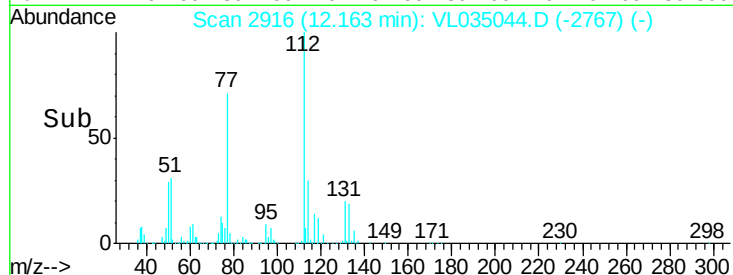
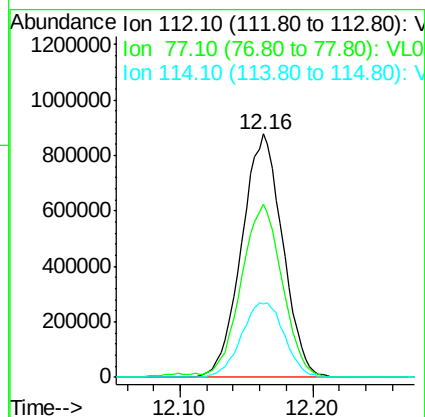
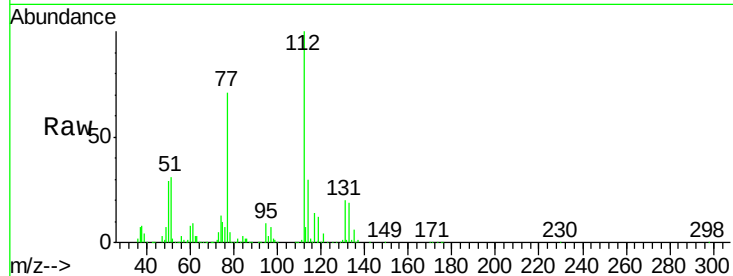
ClientSampleId :

VL0519ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.7	57.0	85.6
114	29.8	30.8	37.6#

Manual Integrations
APPROVED

MMDadoda
5/20/2020 4:26:51 PM



#58

Ethyl Benzene

Concen: 9.744 ppbv

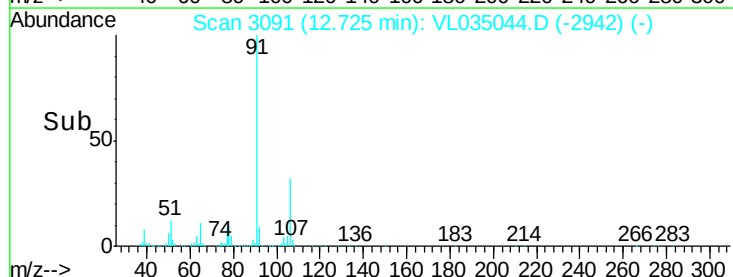
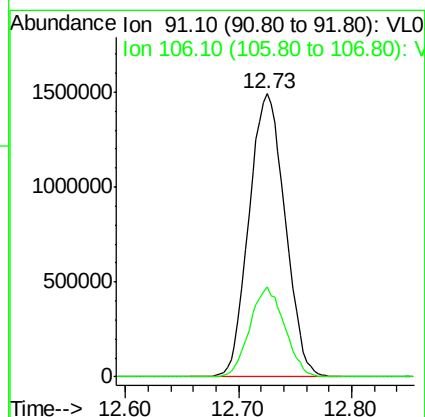
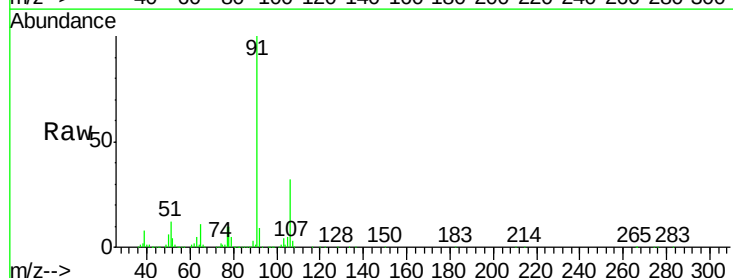
RT: 12.73 min Scan# 3091

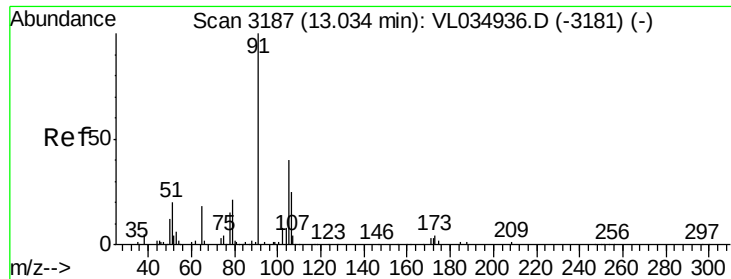
Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.0	24.2	36.4





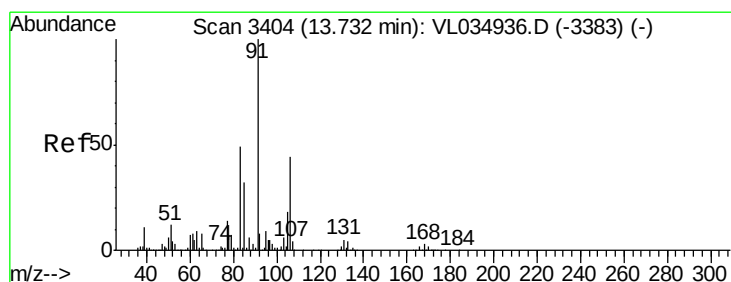
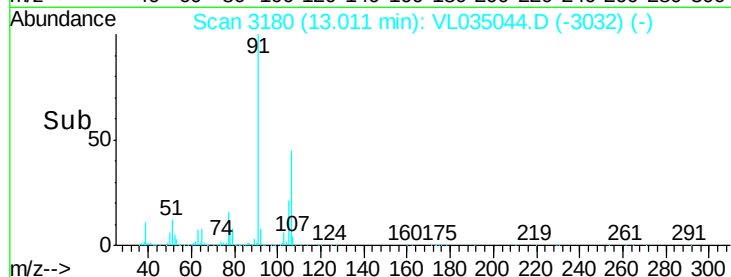
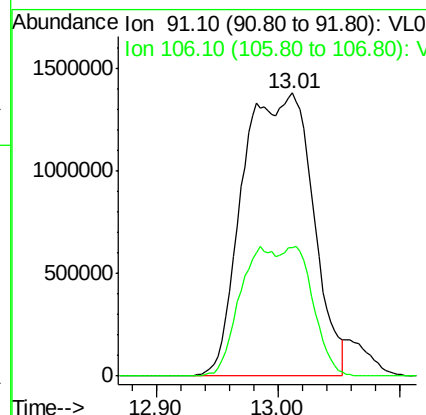
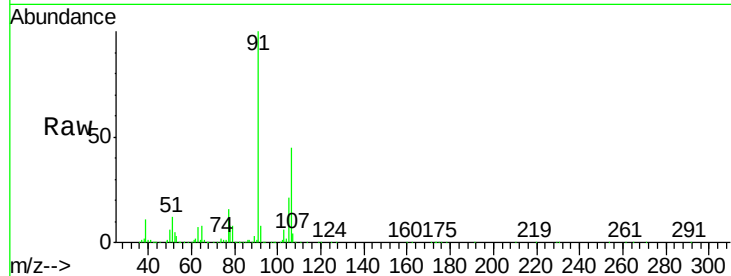
#59
m/p-Xylene
Concen: 18.523 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion: 91 Resp: 5527895
Ion Ratio Lower Upper
91 100
106 45.0 66.0 99.0#

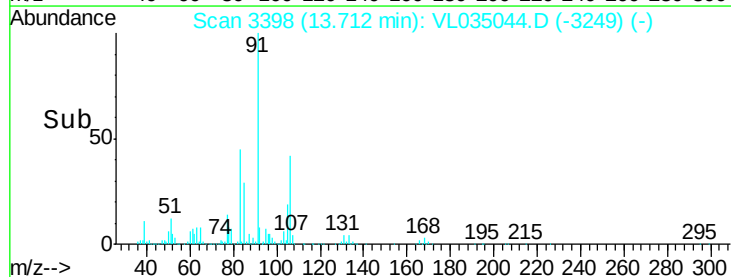
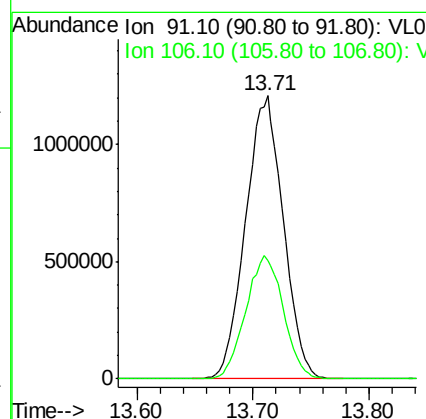
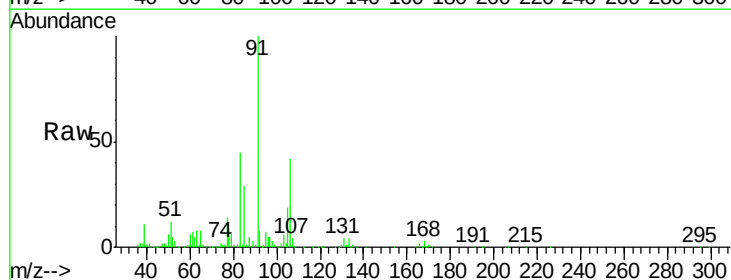
Manual Integrations
APPROVED

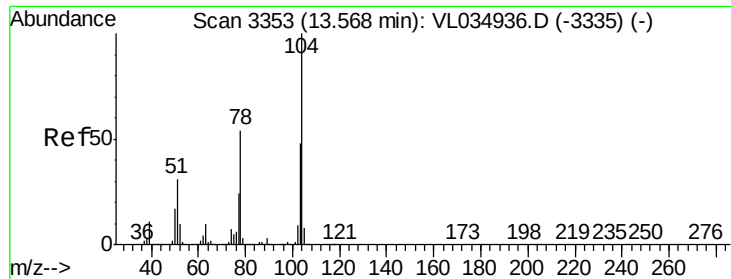
MMDadoda
5/20/2020 4:26:51 PM



#60
o-Xylene
Concen: 9.265 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion: 91 Resp: 2728377
Ion Ratio Lower Upper
91 100
106 43.5 21.9 65.5





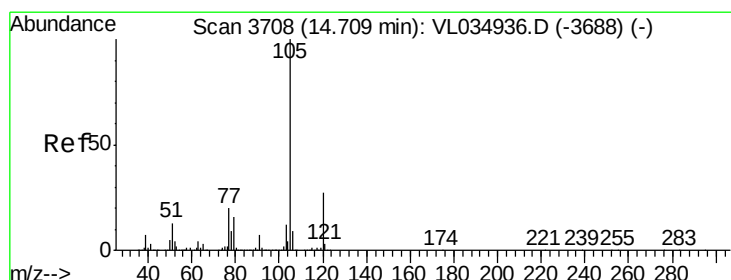
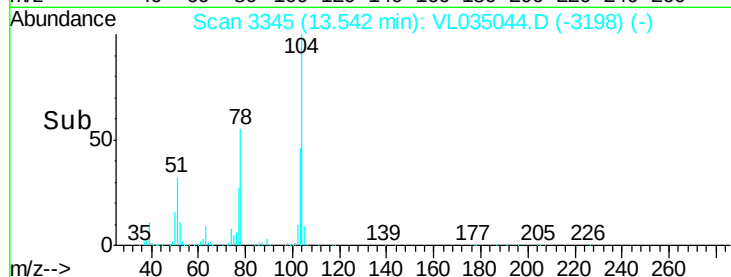
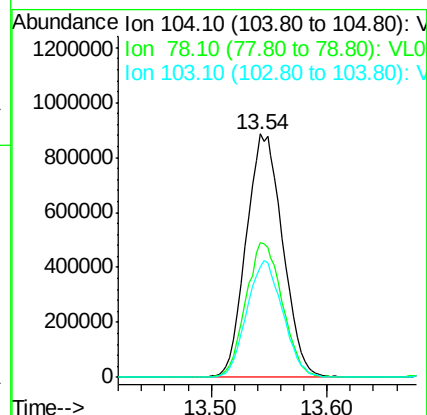
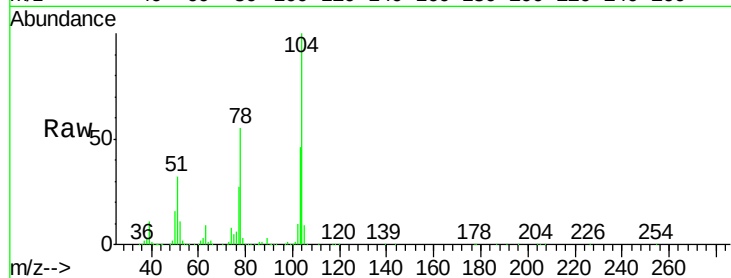
#61
Stvrene
Concen: 10.408 ppbv
RT: 13.54 min Scan# 3345
Delta R.T. -0.03 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.4	43.7	65.5
103	47.4	38.8	58.2

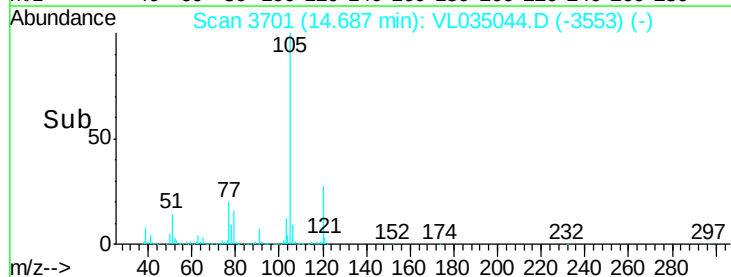
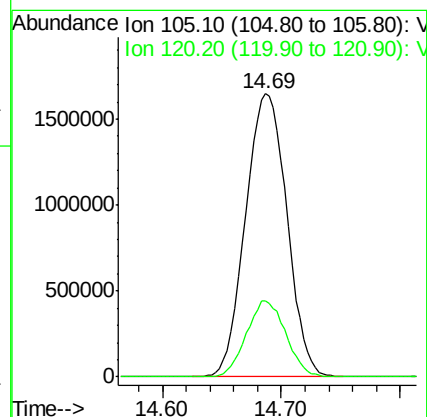
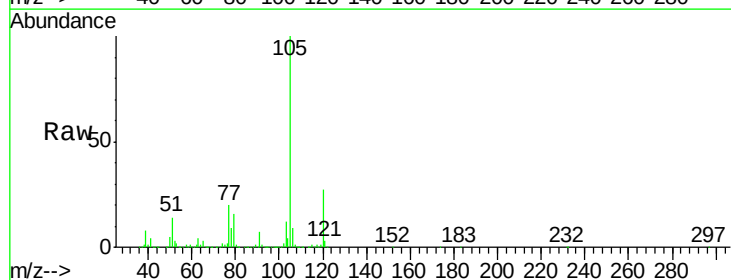
Manual Integrations
APPROVED

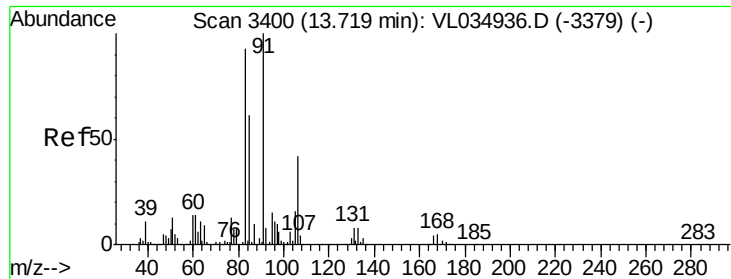
MMDadoda
5/20/2020 4:26:51 PM



#62
Isopropylbenzene
Concen: 9.012 ppbv
RT: 14.69 min Scan# 3701
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 8.381 ppbv

RT: 13.70 min Scan# 3393

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 83 Resp: 1942748

Ion Ratio Lower Upper

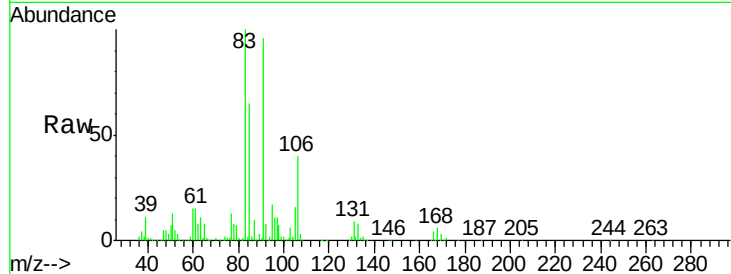
83 100

131 9.0 4.7 14.0

85 65.1 32.5 97.4

Manual Integrations
APPROVED

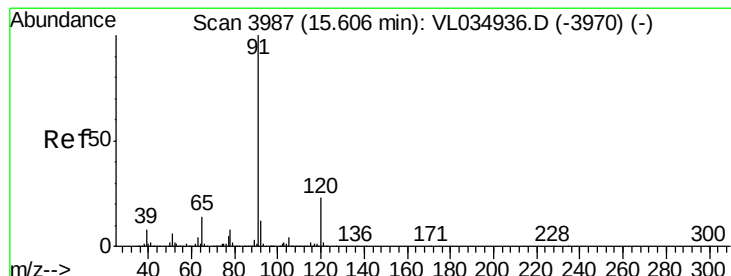
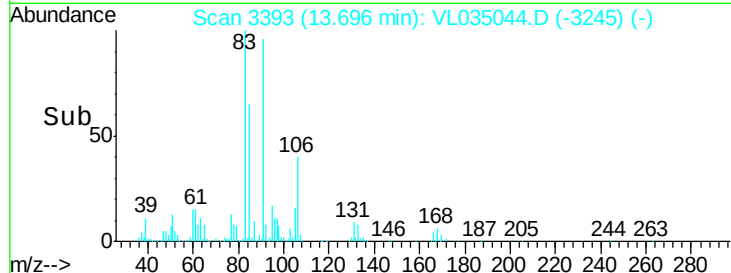
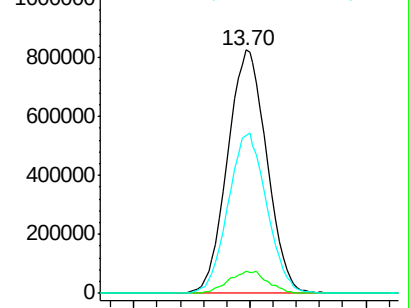
MMDadoda
5/20/2020 4:26:51 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.314 ppbv

RT: 15.58 min Scan# 3980

Delta R.T. -0.02 min

Lab File: VL035044.D

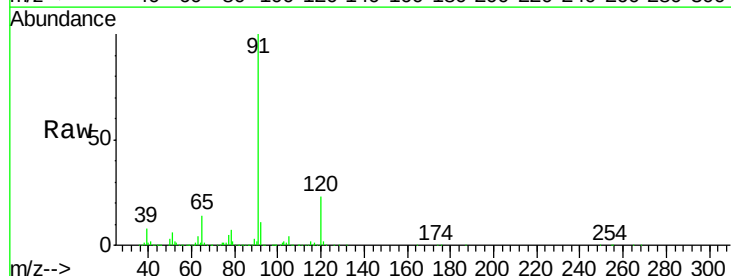
Acq: 19 May 2020 14:22

Tgt Ion: 120 Resp: 1050396

Ion Ratio Lower Upper

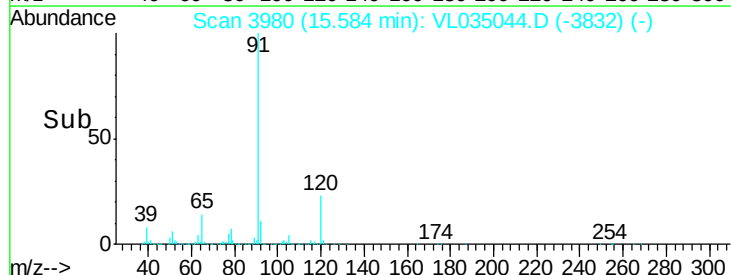
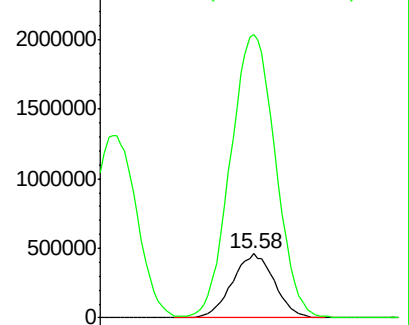
120 100

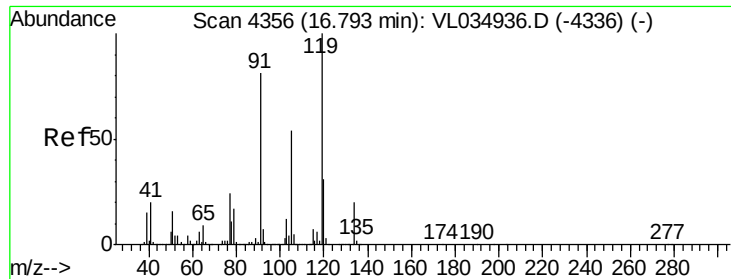
91 470.1 373.5 560.3



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.955 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.03 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion:119 Resp: 3414727

Ion Ratio Lower Upper

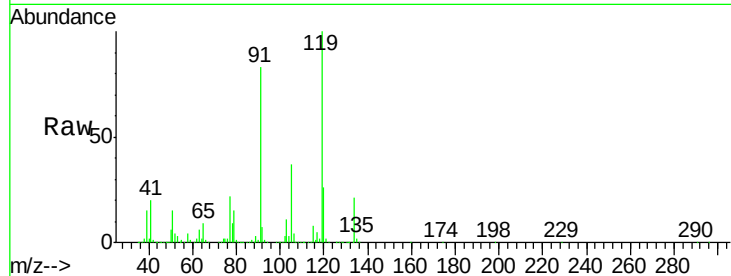
119 100

91 85.5 67.5 101.3

134 20.1 16.1 24.1

Manual Integrations
APPROVED

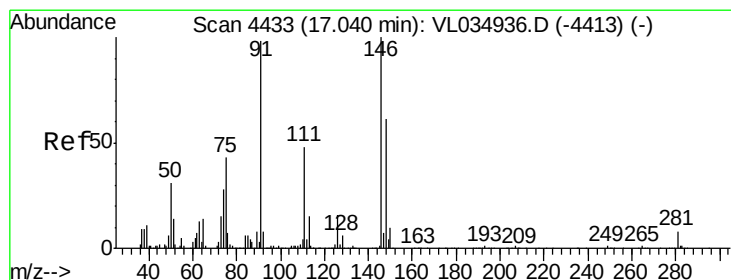
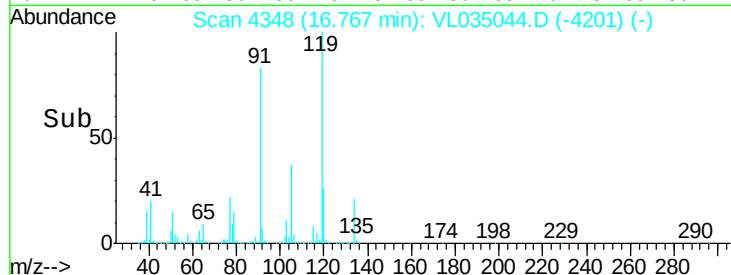
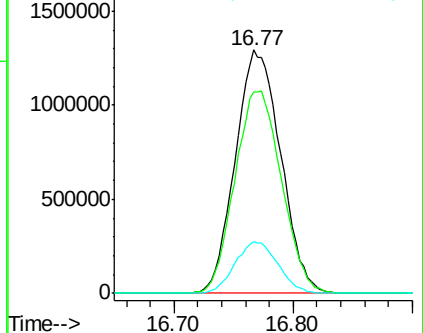
MMDadoda
5/20/2020 4:26:51 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.152 ppbv

RT: 17.02 min Scan# 4426

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

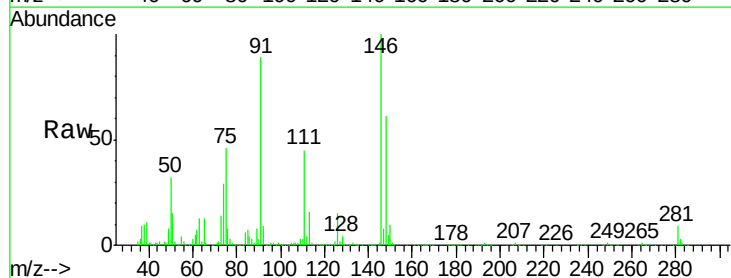
Tgt Ion: 91 Resp: 1314264

Ion Ratio Lower Upper

91 100

126 15.9 13.8 20.6

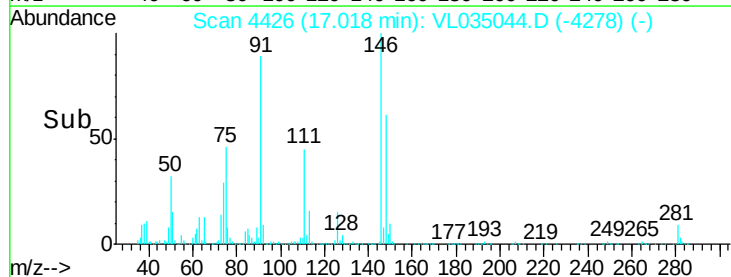
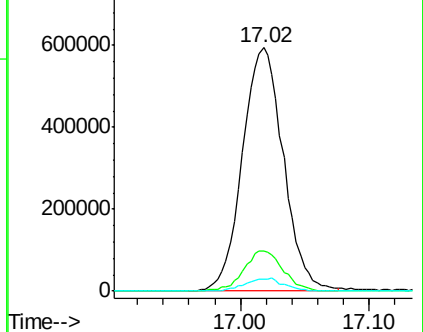
128 5.2 4.3 6.5

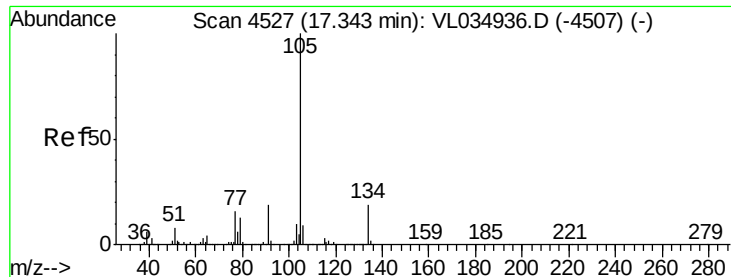


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.010 ppbv

RT: 17.32 min Scan# 4521

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion:105 Resp: 4904629

Ion Ratio Lower Upper

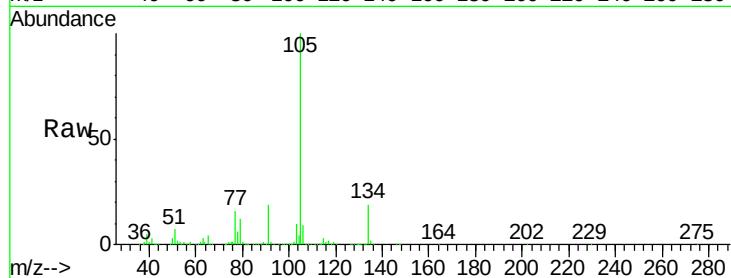
105 100

134 18.2 14.8 22.2

Manual Integrations
APPROVED

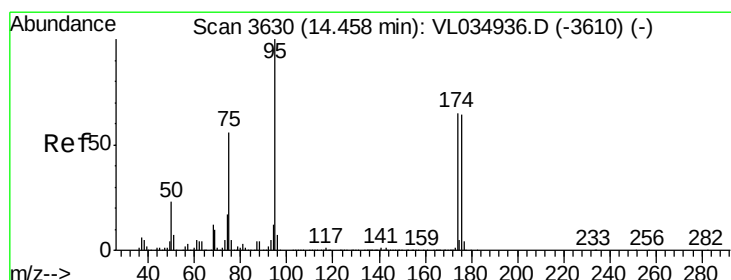
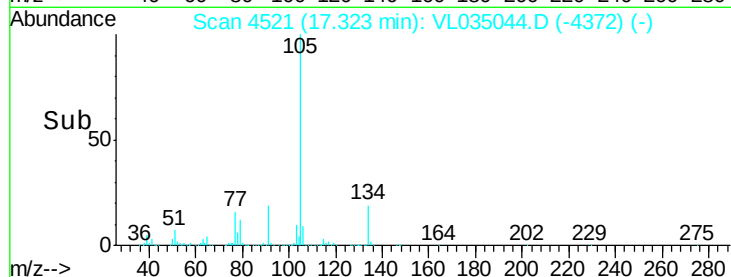
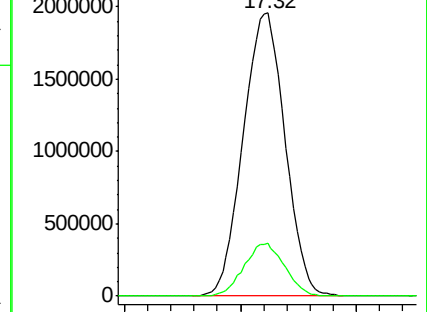
MMDadoda

5/20/2020 4:26:51 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.057 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

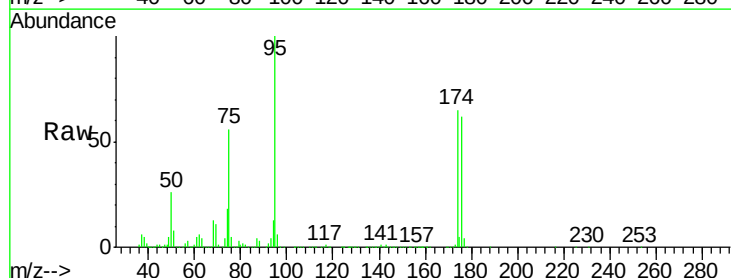
Tgt Ion: 95 Resp: 2232900

Ion Ratio Lower Upper

95 100

174 63.8 51.5 77.3

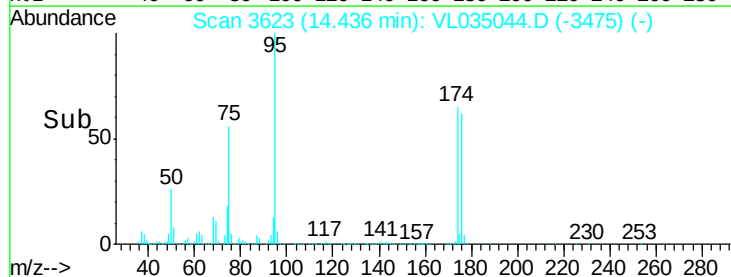
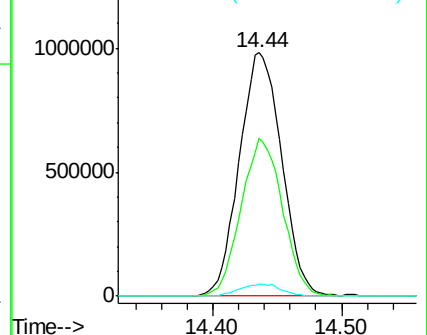
175 4.9 3.8 5.8

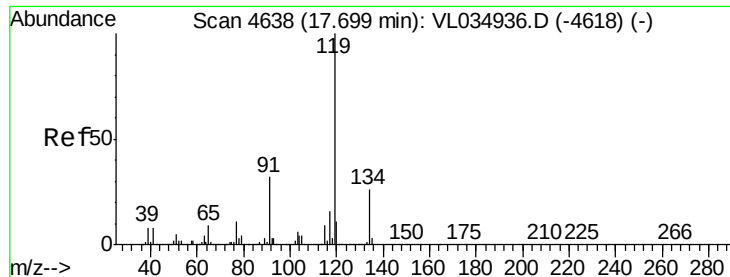


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





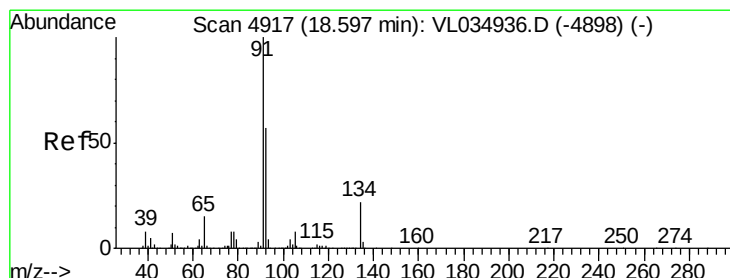
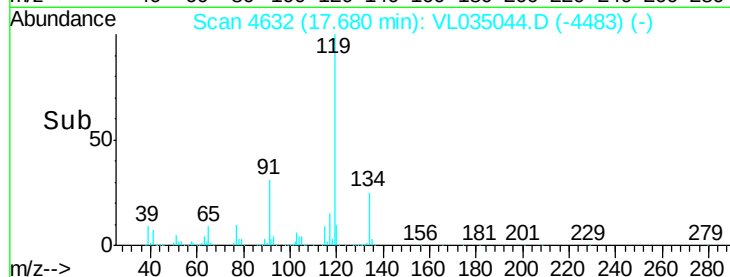
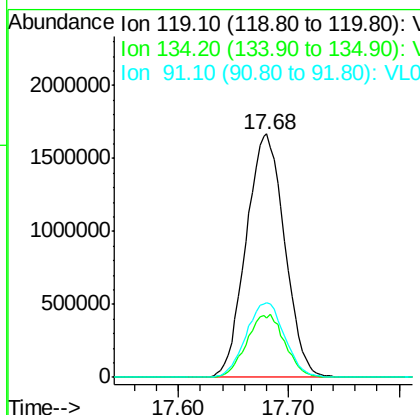
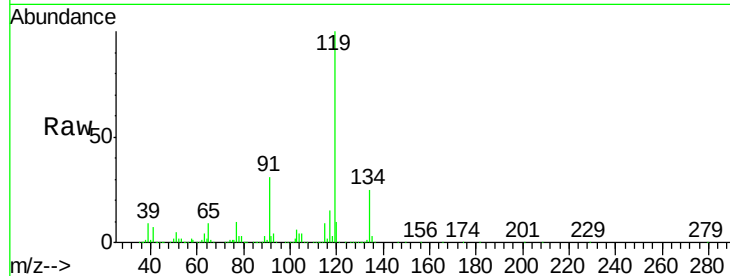
#69
 p-Isopropyltoluene
 Concen: 9.160 ppbv
 RT: 17.68 min Scan# 4632
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.3	30.5
91	30.7	24.6	36.8

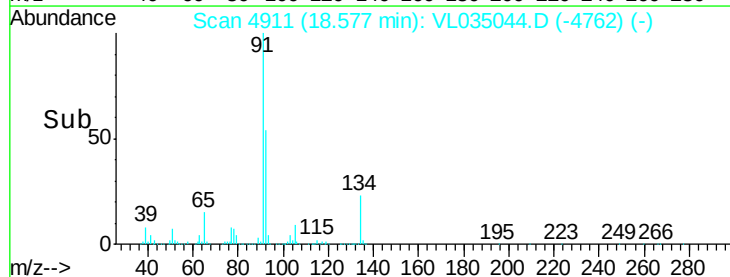
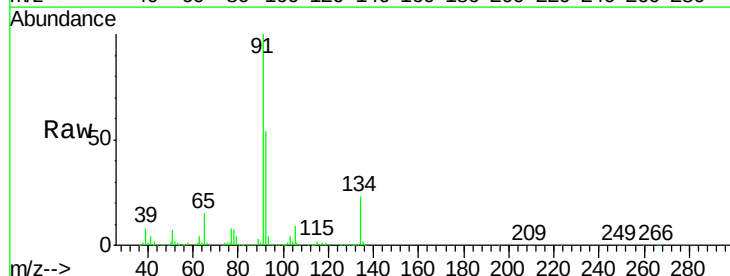
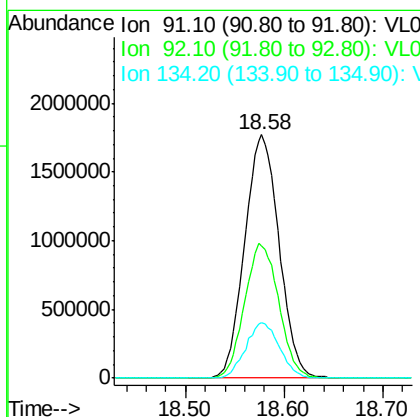
Manual Integrations
 APPROVED

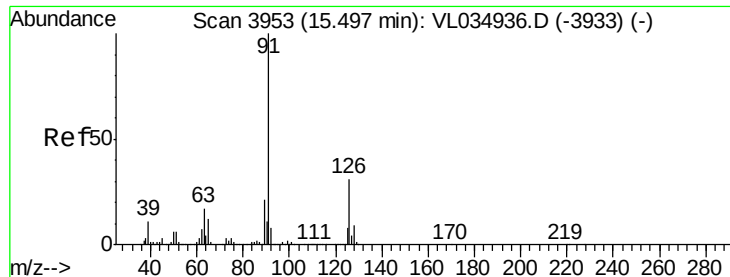
MMDadoda
 5/20/2020 4:26:51 PM



#70
 n-Butylbenzene
 Concen: 9.089 ppbv
 RT: 18.58 min Scan# 4911
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.4	66.6
134	22.4	18.0	27.0





#71

2-Chlorotoluene

Concen: 9.344 ppbv

RT: 15.48 min Scan# 3947

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion: 91 Resp: 3101332

Ion Ratio Lower Upper

91 100

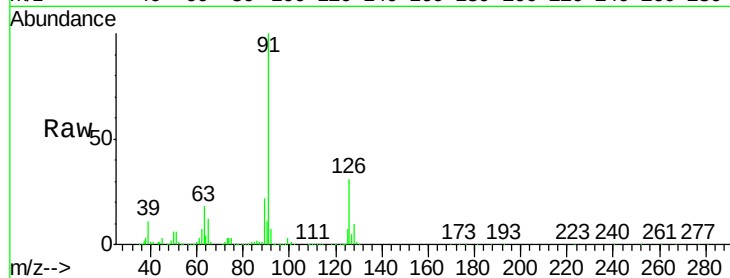
126 29.6 12.0 47.8

Manual Integrations

APPROVED

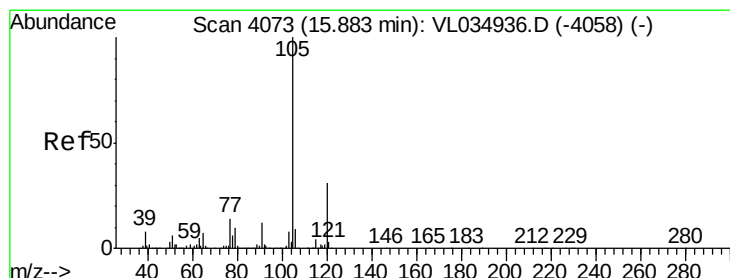
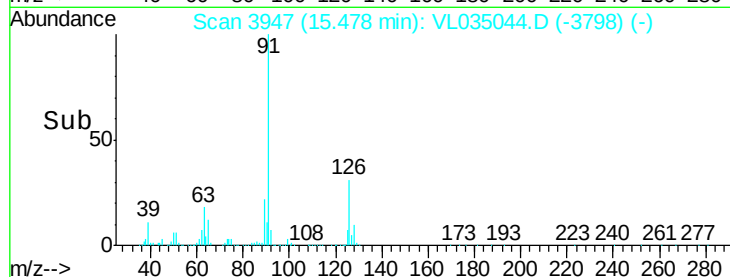
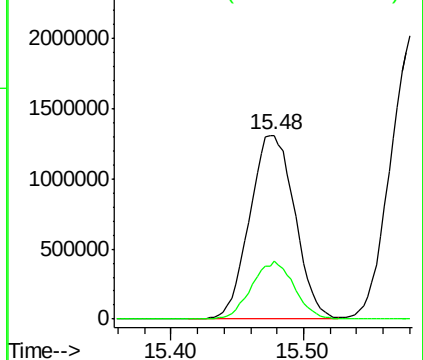
MMDadoda

5/20/2020 4:26:51 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.677 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tgt Ion:105 Resp: 3179499

Ion Ratio Lower Upper

105 100

120 28.5 23.8 35.8

91 13.2 10.6 15.8

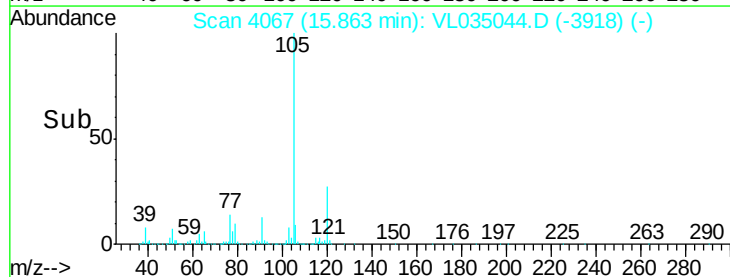
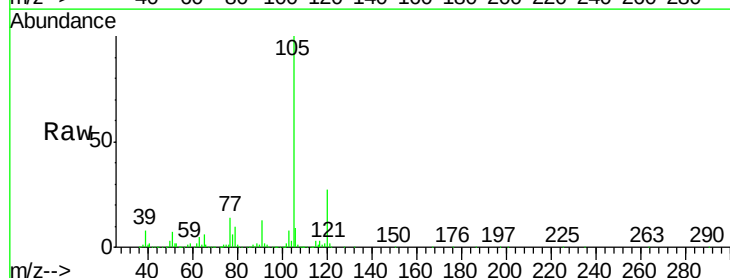
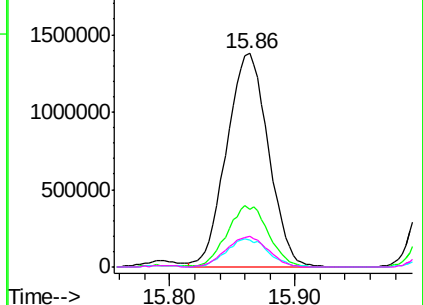
77 14.3 11.6 17.4

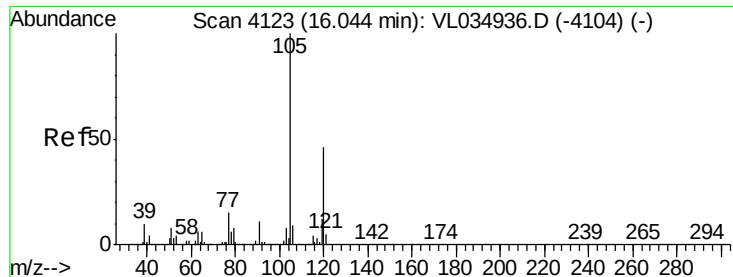
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 9.272 ppbv

RT: 16.02 min Scan# 4116

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Instrument :

MSVOA_L

ClientSampleId :

VL0519ABS01

Tot Ion:105 Resp: 2964616

Ion Ratio Lower Upper

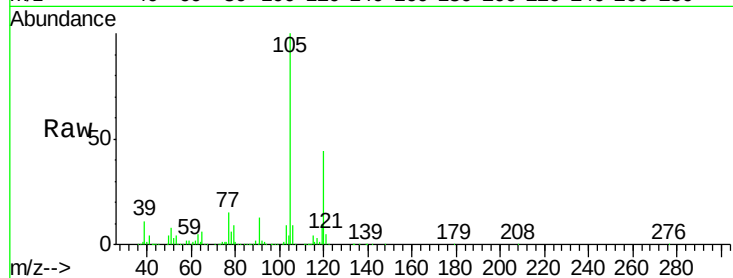
105 100

120 43.4 36.4 54.6

Manual Integrations
APPROVED

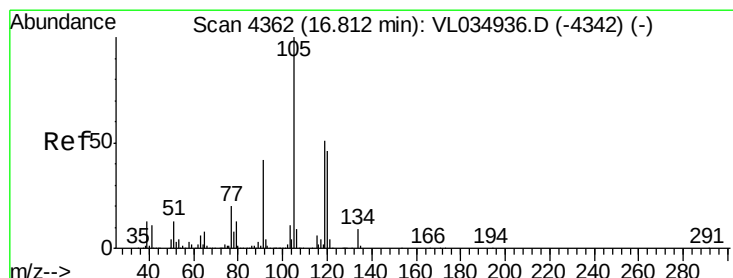
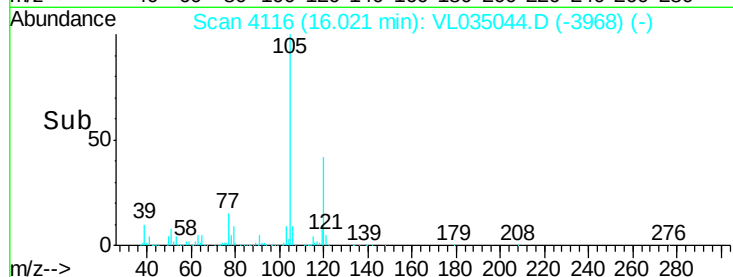
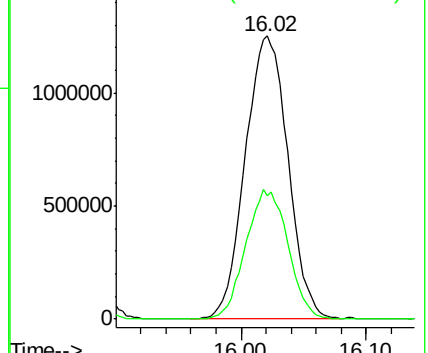
MMDadoda

5/20/2020 4:26:51 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.674 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.02 min

Lab File: VL035044.D

Acq: 19 May 2020 14:22

Tgt Ion:105 Resp: 3027445

Ion Ratio Lower Upper

105 100

120 46.0 36.8 55.2

91 47.8 35.4 53.0

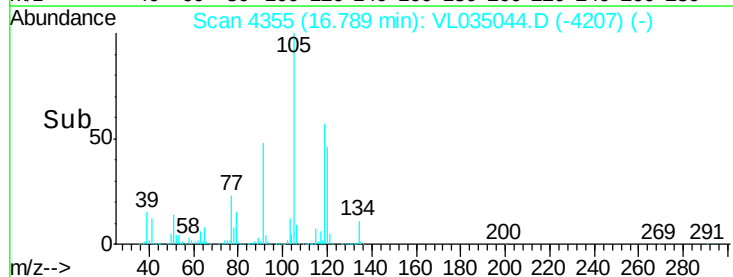
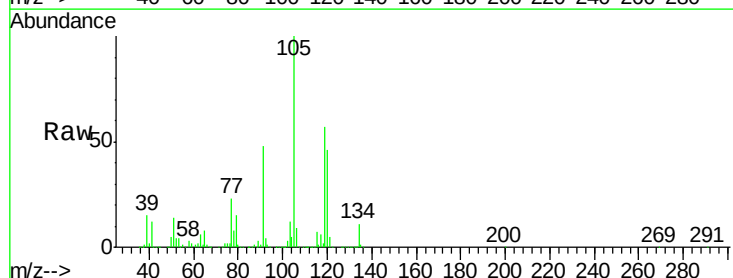
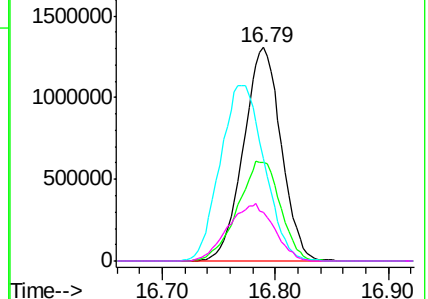
77 22.8 16.2 24.2

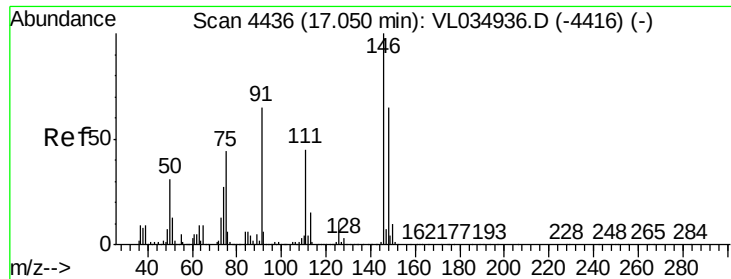
Abundance Ion 105.10 (104.80 to 105.80): V

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





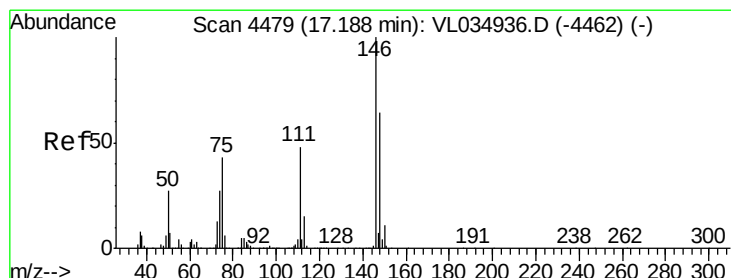
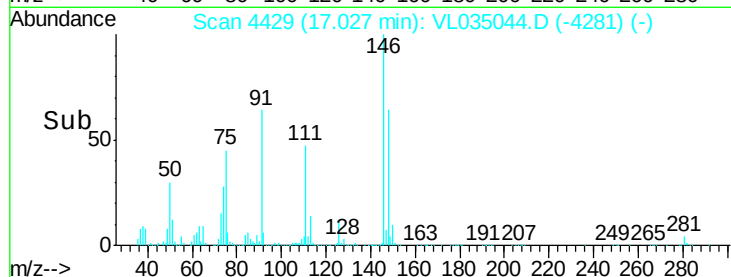
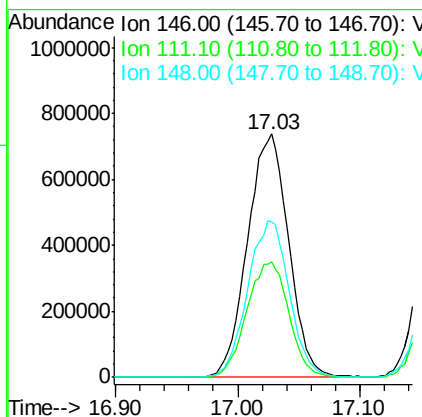
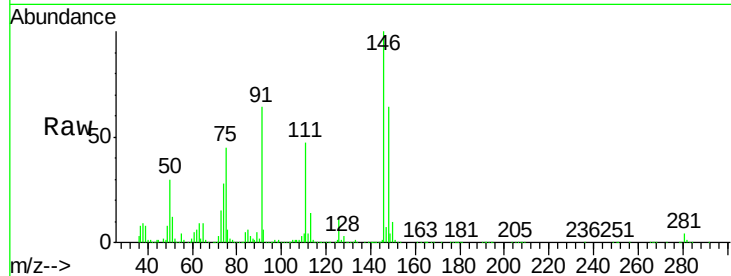
#75
 1,3-Dichlorobenzene
 Concen: 8.393 ppbv
 RT: 17.03 min Scan# 4429
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.0	72.0
148	65.3	32.6	97.7

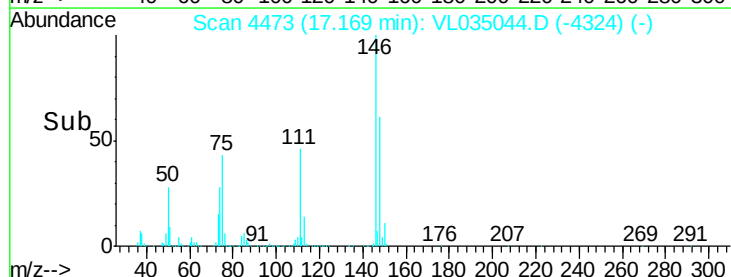
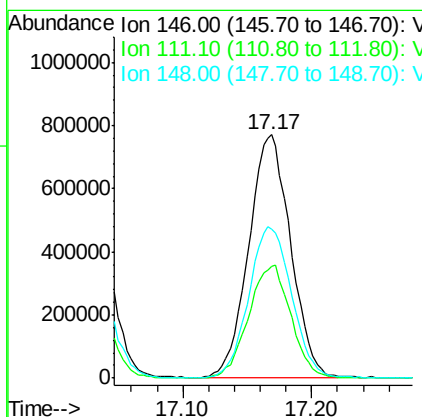
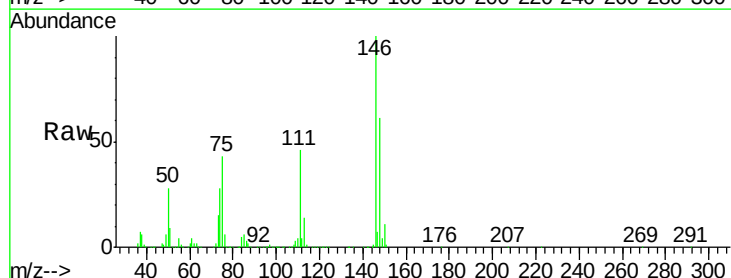
Manual Integrations
 APPROVED

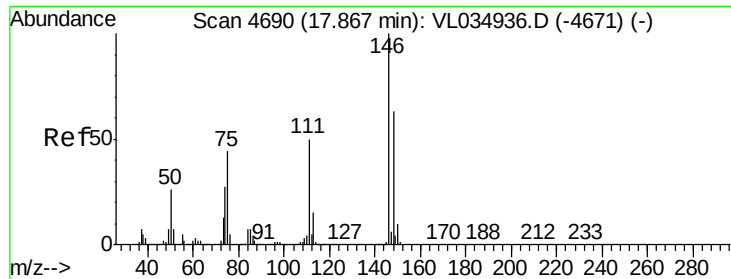
MMDadoda
 5/20/2020 4:26:51 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.943 ppbv
 RT: 17.17 min Scan# 4473
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.7	71.1
148	63.8	32.6	97.8





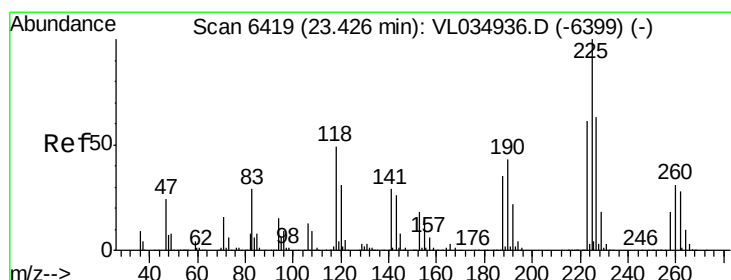
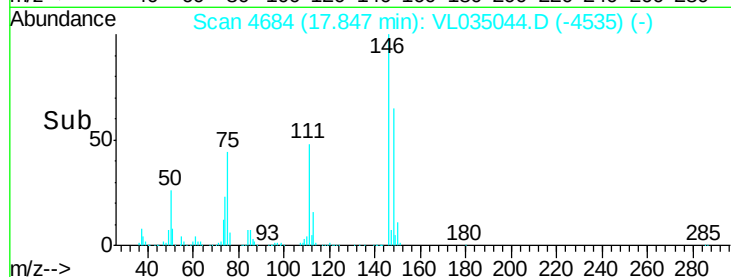
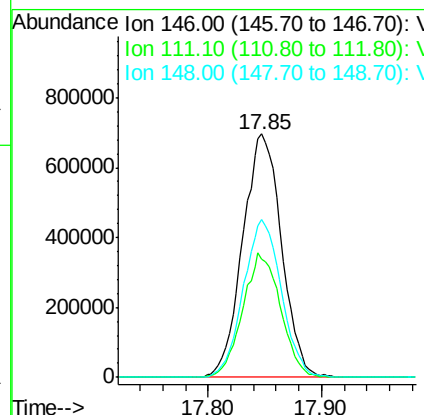
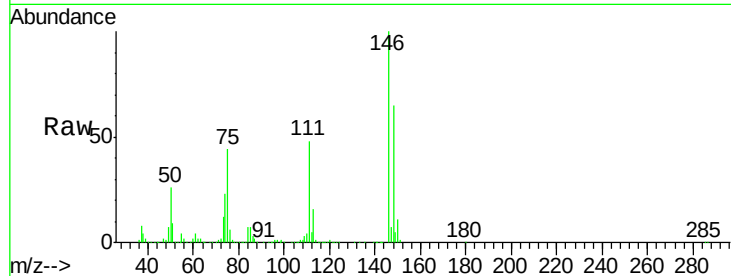
#77
 1,2-Dichlorobenzene
 Concen: 8.608 ppbv
 RT: 17.85 min Scan# 4684
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion:146 Resp: 1662169
 Ion Ratio Lower Upper
 146 100
 111 49.7 24.5 73.5
 148 63.5 31.7 95.1

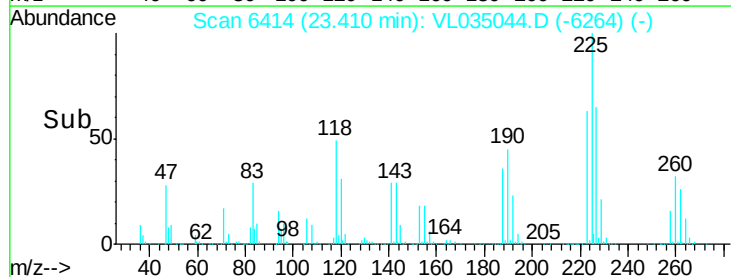
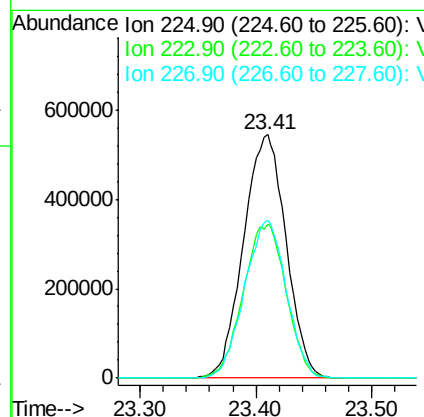
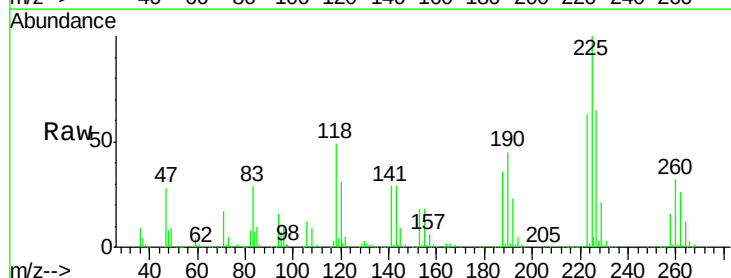
Manual Integrations
 APPROVED

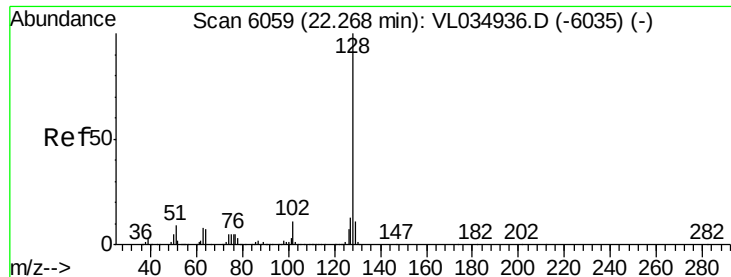
MMDadoda
 5/20/2020 4:26:51 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.429 ppbv
 RT: 23.41 min Scan# 6414
 Delta R.T. -0.02 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Tgt Ion:225 Resp: 1387441
 Ion Ratio Lower Upper
 225 100
 223 63.8 49.8 74.8
 227 63.8 51.8 77.6





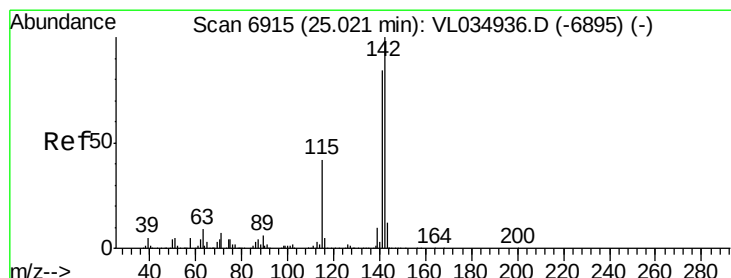
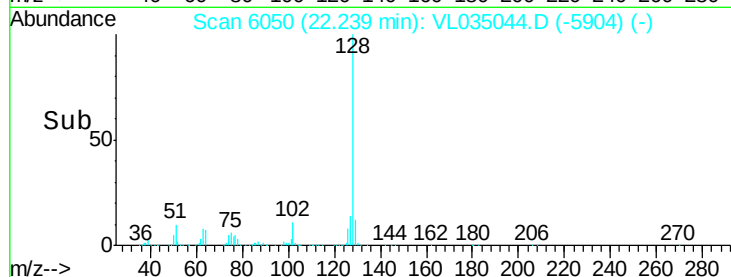
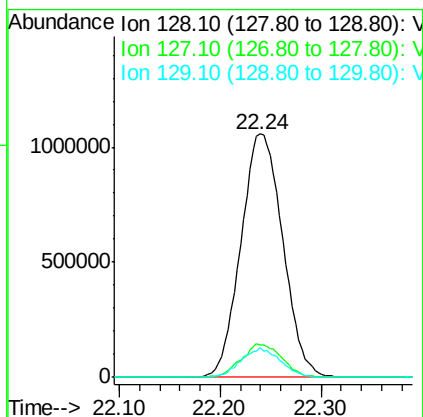
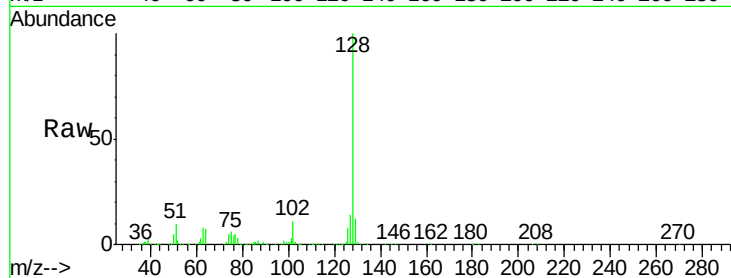
#79
Naphthalene
Concen: 11.182 ppbv
RT: 22.24 min Scan# 6050
Delta R.T. -0.03 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Instrument :
MSVOA_L
ClientSampleId :
VL0519ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.5	15.7
129	12.5	9.0	13.4

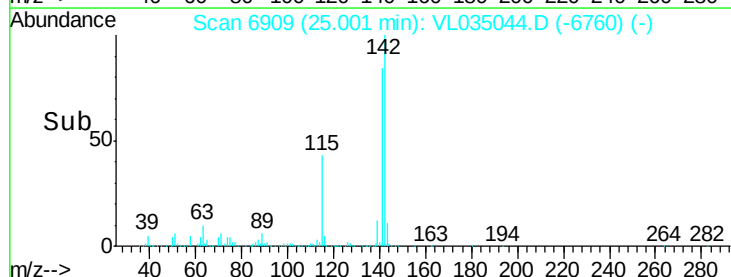
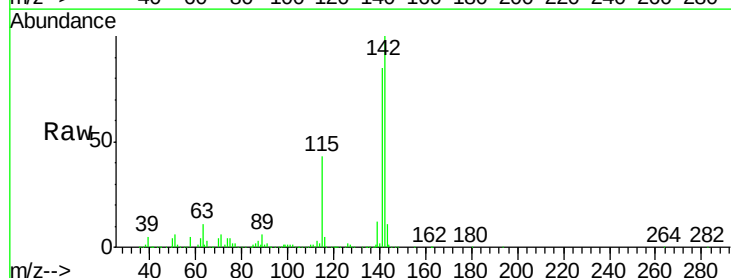
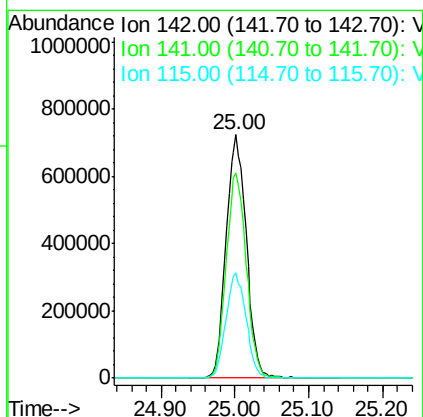
Manual Integrations
APPROVED

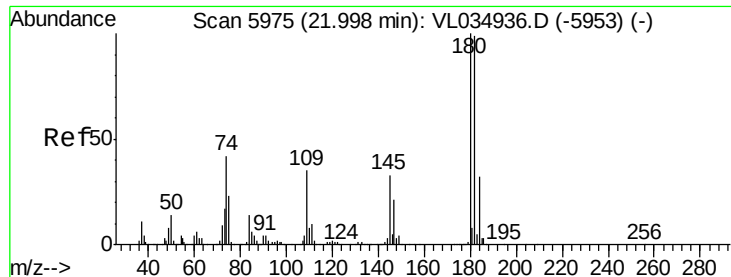
MMDadoda
5/20/2020 4:26:51 PM



#80
Naphthalene, 2-methyl-
Concen: 20.636 ppbv
RT: 25.00 min Scan# 6909
Delta R.T. -0.02 min
Lab File: VL035044.D
Acq: 19 May 2020 14:22

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	68.6	102.8
115	42.9	33.9	50.9





#81
 1,2,4-Trichlorobenzene
 Concen: 9.661 ppbv
 RT: 21.97 min Scan# 5965
 Delta R.T. -0.03 min
 Lab File: VL035044.D
 Acq: 19 May 2020 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0519ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.5	116.3
184	31.3	24.8	37.2

Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:26:51 PM

