

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031969.D
 Acq On : 3 May 2018 18:34
 Operator : SY/AP
 Sample : VL0503ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:03 PM

Quant Time: May 04 03:48:26 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1253614	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2976263	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.40	117	2758125m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2113581	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	1390880	8.40	ppbv	100
3) Chlorodifluoromethane	3.10	51	1132619	9.60	ppbv	98
4) Chloromethane	3.26	50	584452	9.41	ppbv	99
5) Vinyl Chloride	3.38	62	621998	8.87	ppbv	99
6) Bromomethane	3.61	94	432104	9.46	ppbv	95
7) Chloroethane	3.69	64	263733	9.89	ppbv	96
8) Dichlorotetrafluoroethane	3.31	85	1526608	9.26	ppbv	99
9) Propene	3.12	41	425207	9.84	ppbv	98
10) Heptane	8.39	43	1447587	9.74	ppbv	99
11) Trichlorofluoromethane	4.11	101	1738167	8.69	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1347828	9.57	ppbv	98
13) Ethanol	3.74	45	120573	7.47	ppbv #	100
14) Bromoethene	3.88	108	495522	9.52	ppbv	98
15) Acetone	4.00	43	1208716	6.82	ppbv	98
16) 1,3-Butadiene	3.45	39	563352	9.89	ppbv	95
17) tert-Butyl alcohol	4.46	59	585909	7.99	ppbv	98
18) 1,1-Dichloroethene	4.46	96	518640	8.40	ppbv	98
19) Isopropyl Alcohol	4.13	45	794244	8.29	ppbv	99
20) Methylene Chloride	4.52	84	510067	8.53	ppbv	97
21) Allyl Chloride	4.59	41	1013551	10.03	ppbv	99
22) trans-1,2-Dichloroethene	5.08	96	657494	9.60	ppbv	96
23) Vinyl Acetate	5.27	43	2006392	9.91	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1715957	9.08	ppbv	99
25) Ethyl Acetate	5.89	43	2785998	9.16	ppbv	100
26) Hexane	5.90	57	1311800	9.17	ppbv	99
27) Carbon Disulfide	4.73	76	1706937	10.65	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1686280	9.59	ppbv	99
29) Chloroform	5.98	83	2075116	9.17	ppbv	98
30) Cyclohexane	7.39	84	1047360	10.99	ppbv	100
31) cis-1,2-Dichloroethene	5.77	61	1242135	9.49	ppbv	99
32) 1,1,1-Trichloroethane	6.76	97	2202283	10.56	ppbv	98
34) 2-Butanone	5.45	43	1767834	7.20	ppbv	99
35) Carbon Tetrachloride	7.27	117	2360425	10.01	ppbv	100
36) Benzene	7.14	78	2789768	9.95	ppbv	98
37) 1,2-Dichloroethane	6.55	62	1788120	8.87	ppbv	99
38) Trichloroethene	8.10	130	886911	8.33	ppbv	97
39) 1,2-Dichloropropane	7.88	63	810533	8.30	ppbv	98
40) 1,4-Dioxane	8.10	88	324259	7.37	ppbv	78
41) Tetrahydrofuran	6.27	42	949444	8.88	ppbv	99
42) Bromodichloromethane	8.06	83	1878090	8.36	ppbv	99
43) Methyl Methacrylate	8.28	69	823111	8.71	ppbv	99

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031969.D
 Acq On : 3 May 2018 18:34
 Operator : SY/AP
 Sample : VL0503ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:03 PM

Quant Time: May 04 03:48:26 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	3700432	8.18	ppbv	100
45) t-1,3-Dichloropropene	9.56	75	1178378	9.41	ppbv	99
46) cis-1,3-Dichloropropene	8.98	75	1457874	9.43	ppbv	99
47) 1,1,2-Trichloroethane	9.76	97	927082	8.03	ppbv	98
48) Dibromochloromethane	10.60	129	1604891	8.67	ppbv	99
49) Bromoform	13.36	173	1257519	8.75	ppbv	100
50) 4-Methyl-2-Pentanone	9.01	43	1975224	8.51	ppbv	99
51) 2-Hexanone	10.42	43	1915461	9.07	ppbv #	99
52) Tetrachloroethene	11.53	164	857797	8.26	ppbv	98
53) Toluene	10.10	91	2676107	8.86	ppbv	99
54) 1,2-Dibromoethane	10.91	107	1463785	8.51	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.43	131	1096901	8.73	ppbv #	59
57) Chlorobenzene	12.46	112	2082647	8.76	ppbv	98
58) Ethyl Benzene	13.02	91	3714386	9.40	ppbv	97
59) m/p-Xylene	13.30	91	6180673m	18.45	ppbv	
60) o-Xylene	14.00	91	3109387	9.25	ppbv	100
61) Styrene	13.84	104	738269	10.83	ppbv	100
62) Isopropylbenzene	14.98	105	3911106	9.10	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.99	83	2017999	8.45	ppbv	98
64) n-propylbenzene	15.87	120	996791	9.25	ppbv	97
65) tert-Butylbenzene	17.06	119	3336009	8.70	ppbv	100
66) Benzyl Chloride	17.31	91	329269	9.45	ppbv	99
67) sec-Butylbenzene	17.61	105	4714286	8.86	ppbv	100
69) p-Isopropyltoluene	17.96	119	3916150	9.15	ppbv	99
70) n-Butylbenzene	18.86	91	4114305	9.30	ppbv	99
71) 2-Chlorotoluene	15.77	91	2953594	9.39	ppbv	99
72) 4-Ethyltoluene	16.15	105	3269253	9.58	ppbv	99
73) 1,3,5-Trimethylbenzene	16.31	105	2950025	9.35	ppbv	95
74) 1,2,4-Trimethylbenzene	17.08	105	3080126	8.82	ppbv	96
75) 1,3-Dichlorobenzene	17.32	146	1930296	8.96	ppbv	100
76) 1,4-Dichlorobenzene	17.46	146	1952575	9.16	ppbv	100
77) 1,2-Dichlorobenzene	18.14	146	1926510	8.88	ppbv	99
78) Hexachloro-1,3-Butadiene	23.68	225	883197	8.96	ppbv	100
79) Naphthalene	22.59	128	3479906	14.31	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	1532356	26.43	ppbv	98
81) 1,2,4-Trichlorobenzene	22.32	180	1695902	12.58	ppbv	100

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

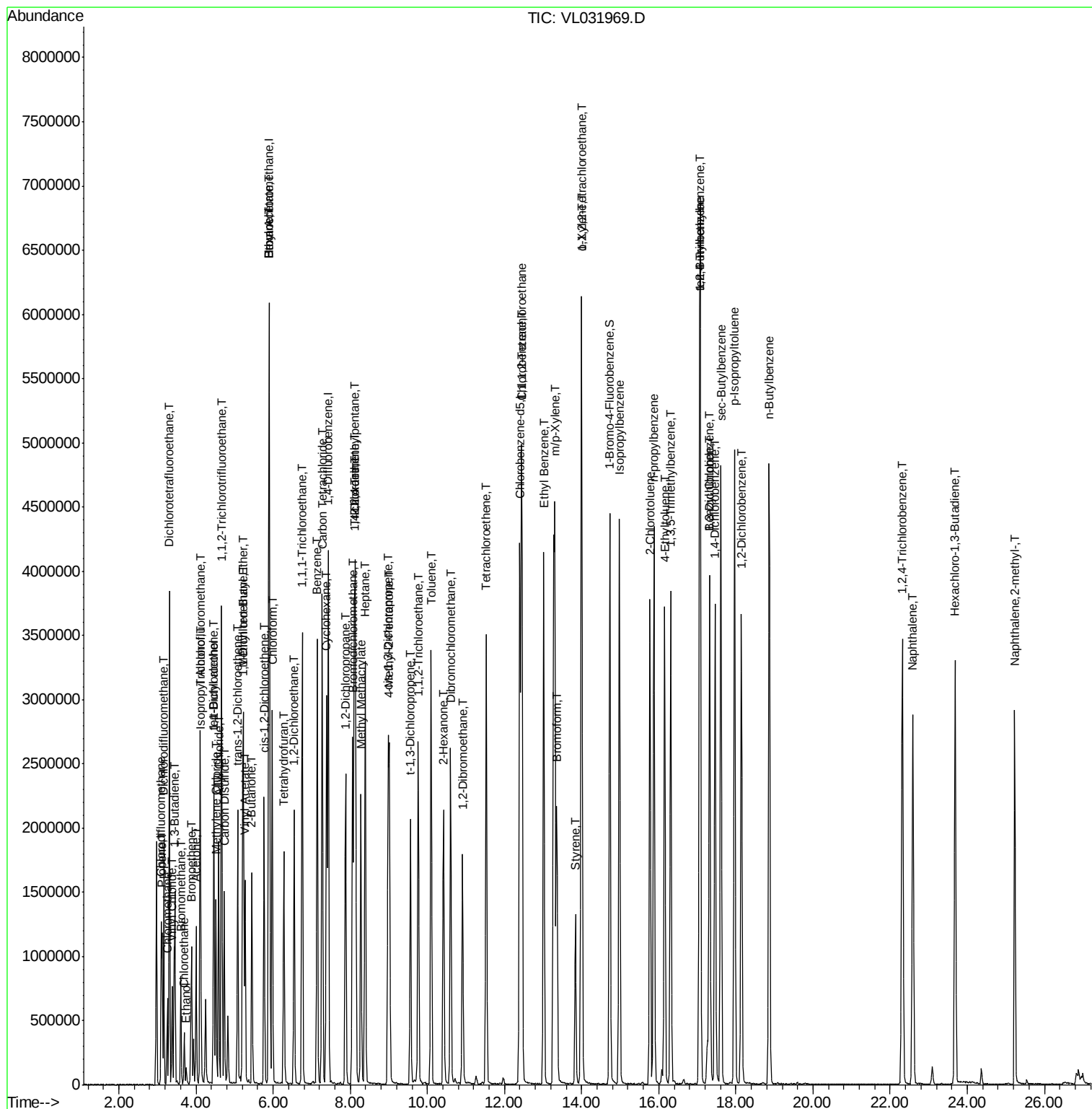
```
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\  
Data File : VL031969.D  
Acq On    : 3 May 2018 18:34  
Operator  : SY/AP  
Sample    : VL0503ABS01  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
```

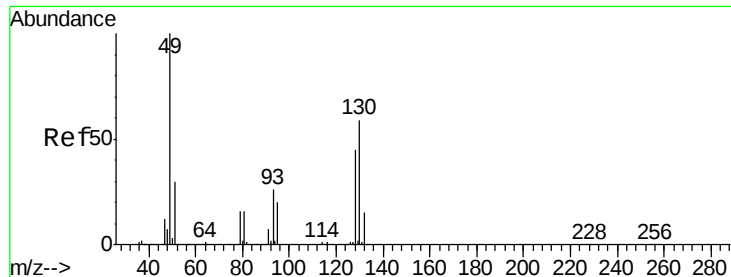
Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Manual Integrations APPROVED

MMDadoda
5/4/2018 5:01:03 PM

Quant Time: May 04 03:48:26 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May
QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 49 Resp: 1253614

Ion Ratio Lower Upper

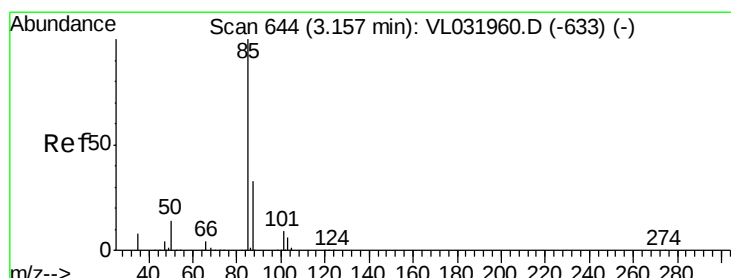
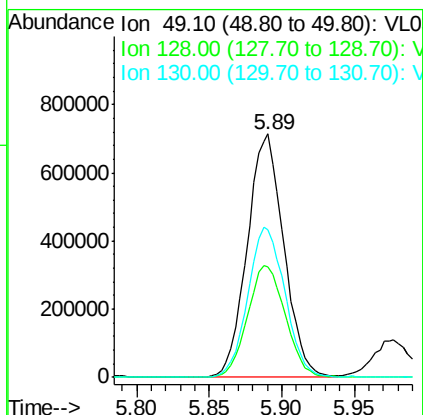
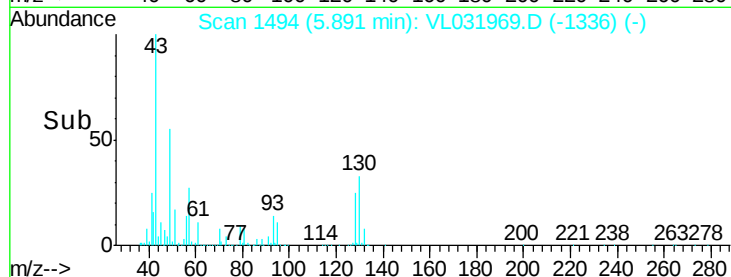
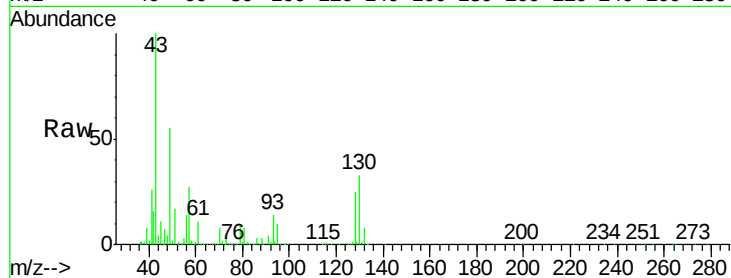
49 100

128 47.8 24.1 72.3

130 62.8 30.7 92.1

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:03 PM



#2

Dichlorodifluoromethane

Concen: 8.40 ppbv

RT: 3.16 min Scan# 645

Delta R.T. 0.00 min

Lab File: VL031969.D

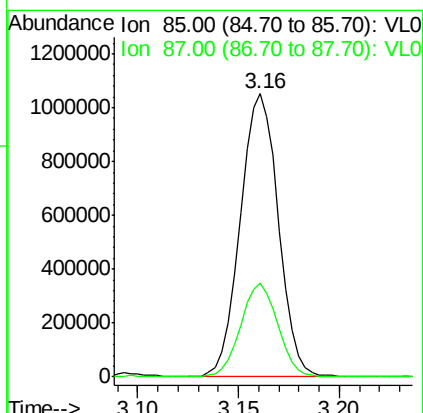
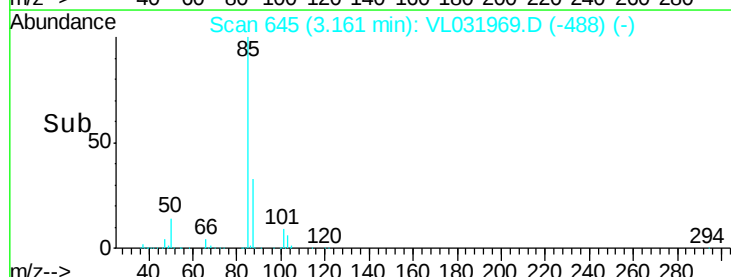
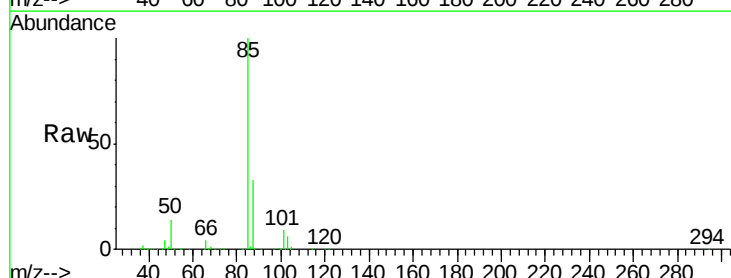
Acq: 3 May 2018 18:34

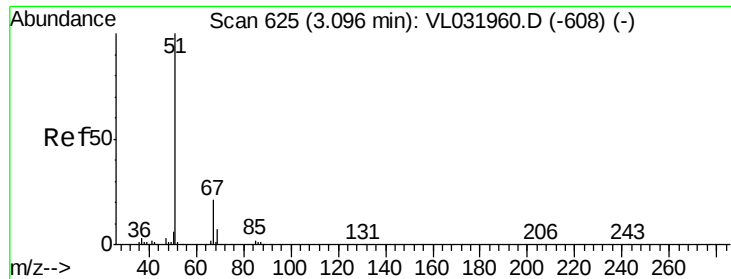
Tgt Ion: 85 Resp: 1390880

Ion Ratio Lower Upper

85 100

87 33.2 26.8 40.2





#3

Chlorodifluoromethane

Concen: 9.60 ppbv

RT: 3.10 min Scan# 625

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 51 Resp: 1132619

Ion Ratio Lower Upper

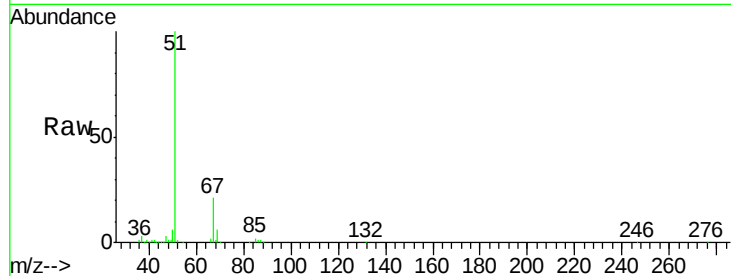
51 100

67 20.9 15.9 23.9

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:03 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1000000

800000

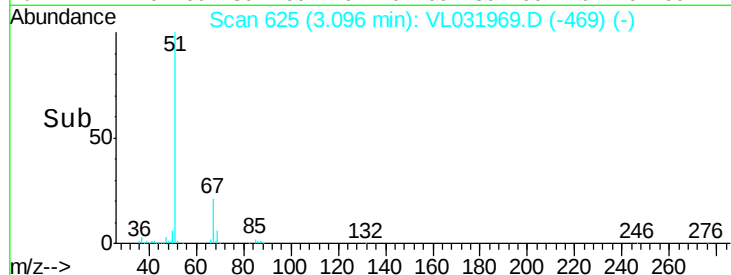
600000

400000

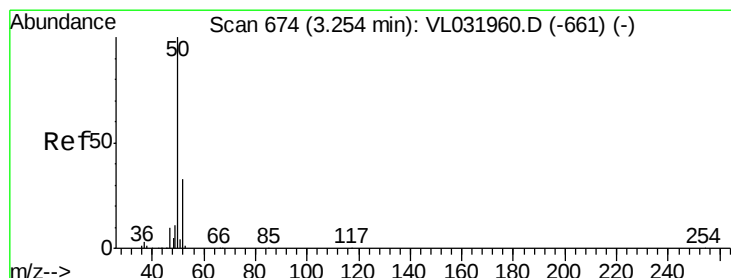
200000

0

Time-->



Time-->



#4

Chloromethane

Concen: 9.41 ppbv

RT: 3.26 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL031969.D

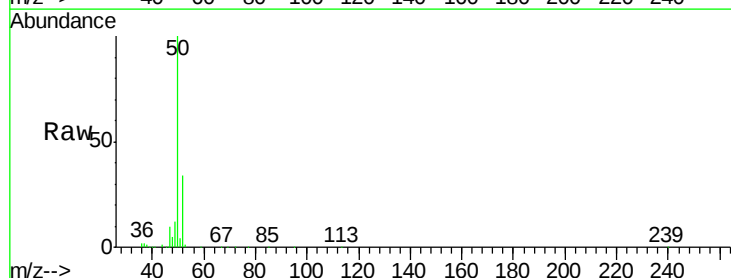
Acq: 3 May 2018 18:34

Tgt Ion: 50 Resp: 584452

Ion Ratio Lower Upper

50 100

52 33.6 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

400000

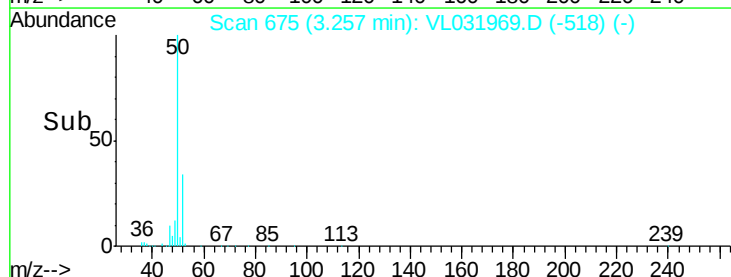
300000

200000

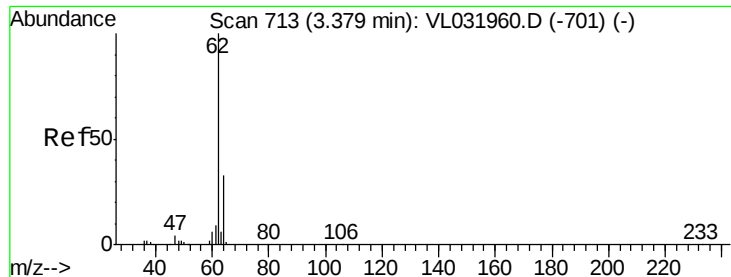
100000

0

Time-->



Time-->



#5

Vinyl Chloride

Concen: 8.87 ppbv

RT: 3.38 min Scan# 713

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleID :

VL0503ABS01

Tot Ion: 62 Resp: 621998

Ion Ratio Lower Upper

62 100

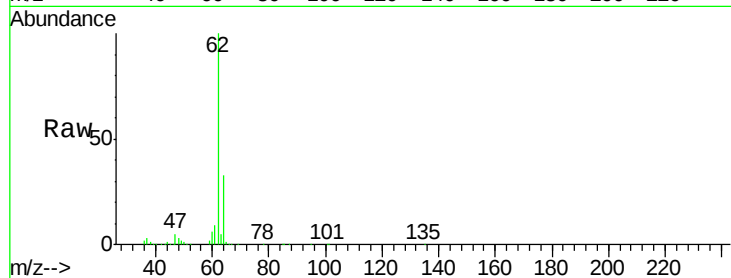
64 32.9 26.6 39.8

Manual Integrations

APPROVED

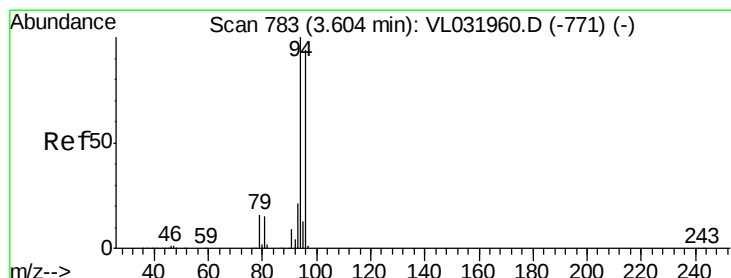
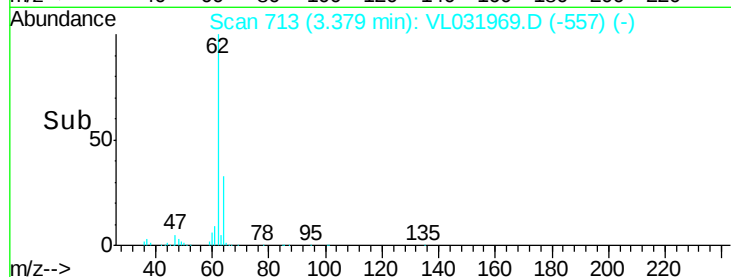
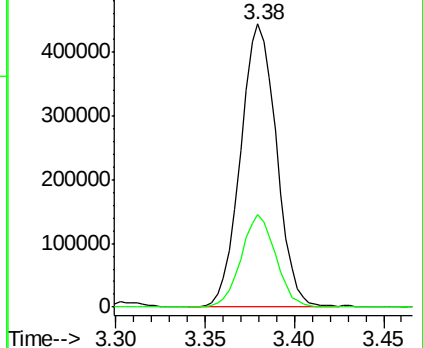
MMDadoda

5/4/2018 5:01:03 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.46 ppbv

RT: 3.61 min Scan# 784

Delta R.T. 0.00 min

Lab File: VL031969.D

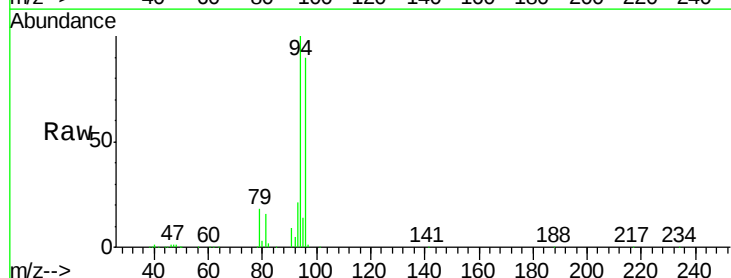
Acq: 3 May 2018 18:34

Tgt Ion: 94 Resp: 432104

Ion Ratio Lower Upper

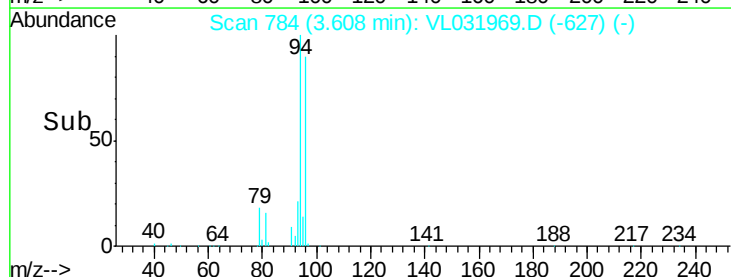
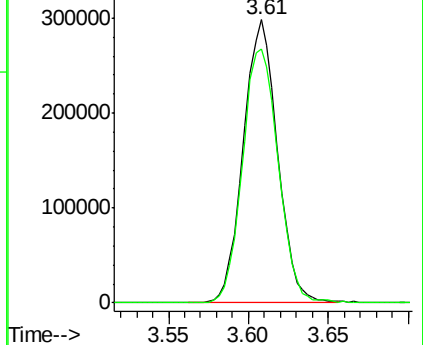
94 100

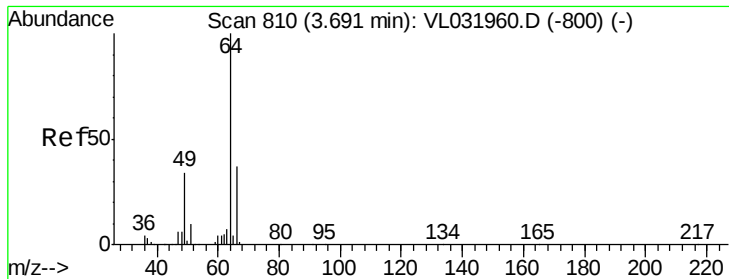
96 89.9 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.89 ppbv

RT: 3.69 min Scan# 811

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 64 Resp: 263733

Ion Ratio Lower Upper

64 100

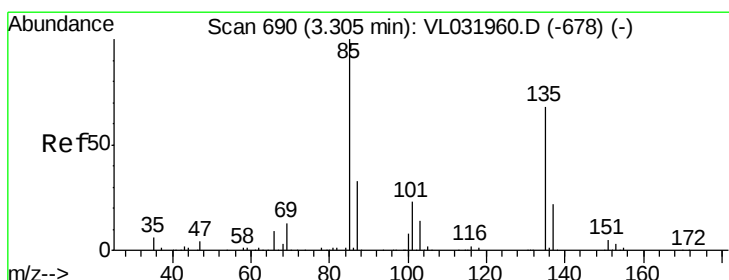
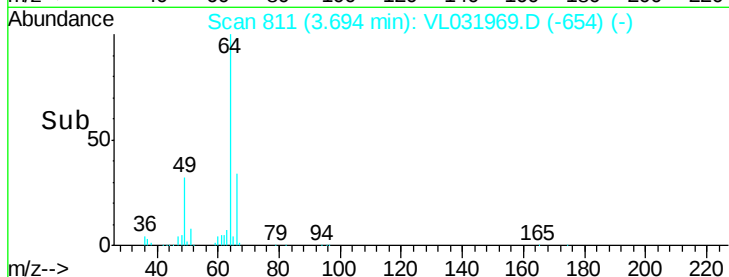
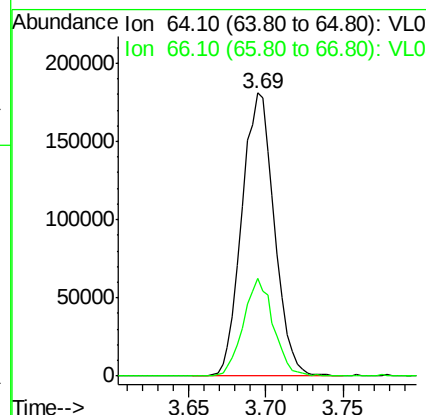
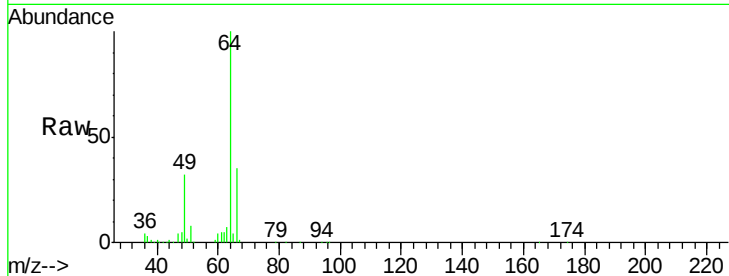
66 34.6 29.6 44.4

Manual Integrations

APPROVED

MMDadoda

5/4/2018 5:01:03 PM



#8

Dichlorotetrafluoroethane

Concen: 9.26 ppbv

RT: 3.31 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL031969.D

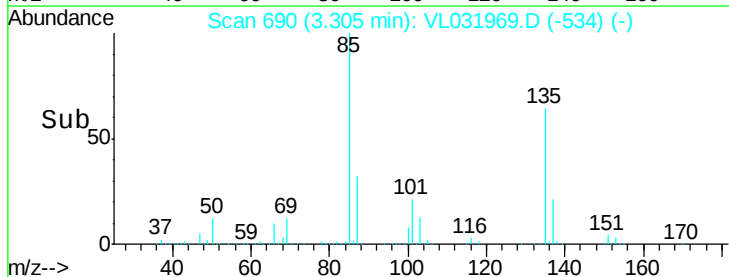
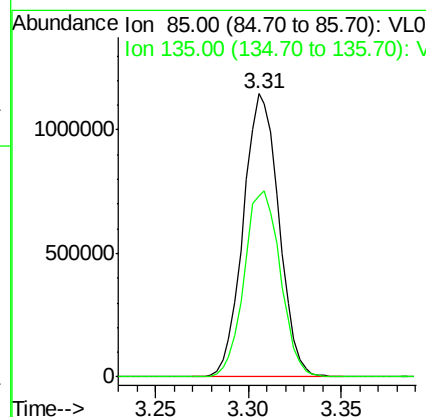
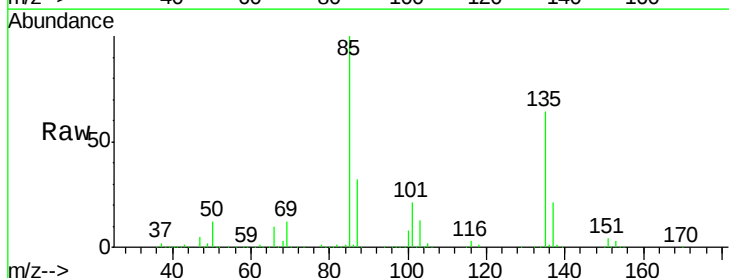
Acq: 3 May 2018 18:34

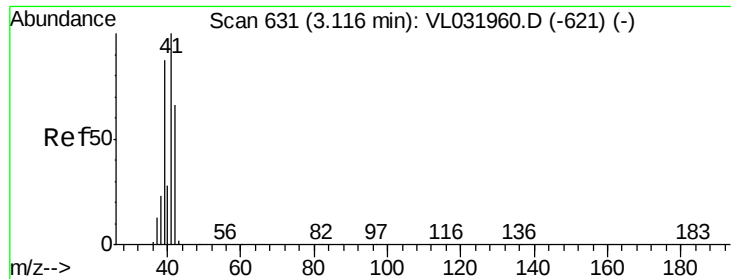
Tgt Ion: 85 Resp: 1526608

Ion Ratio Lower Upper

85 100

135 67.3 54.8 82.2





#9

Propene

Concen: 9.84 ppbv

RT: 3.12 min Scan# 632

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 41 Resp: 425207

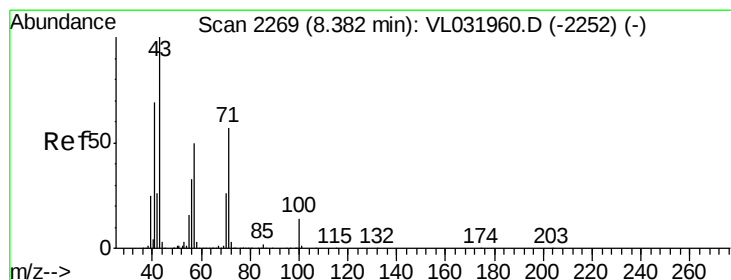
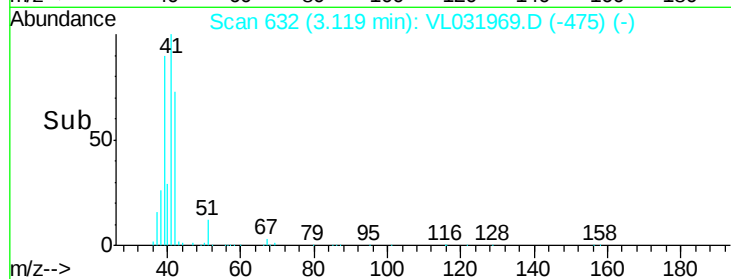
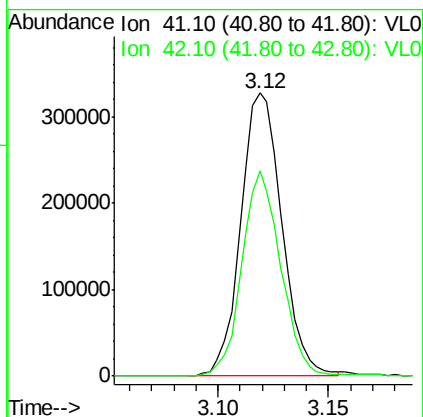
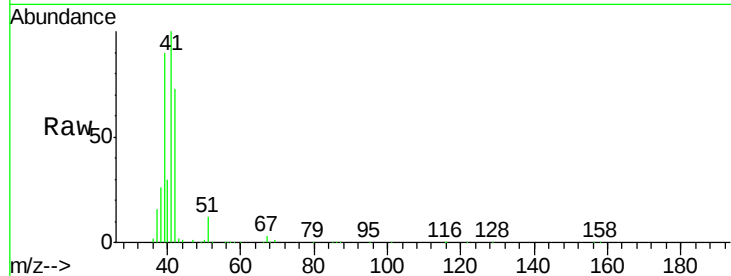
Ion Ratio Lower Upper

41 100

42 69.3 53.9 80.9

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:03 PM



#10

Heptane

Concen: 9.74 ppbv

RT: 8.39 min Scan# 2271

Delta R.T. 0.01 min

Lab File: VL031969.D

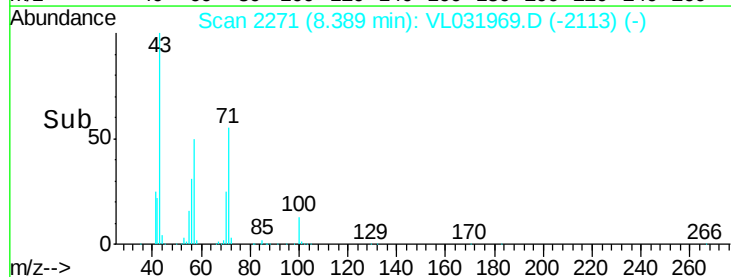
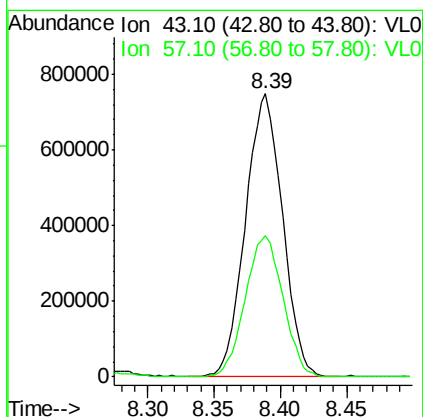
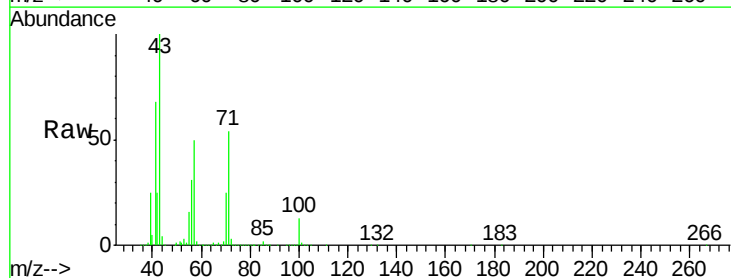
Acq: 3 May 2018 18:34

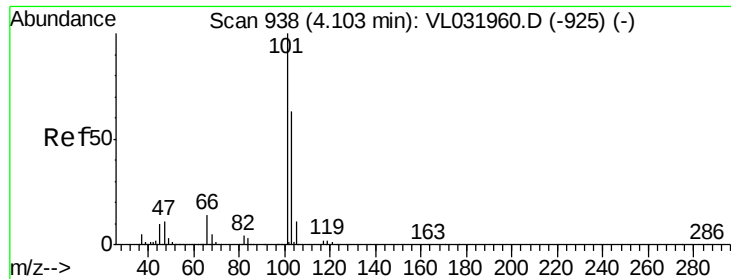
Tgt Ion: 43 Resp: 1447587

Ion Ratio Lower Upper

43 100

57 51.3 40.7 61.1





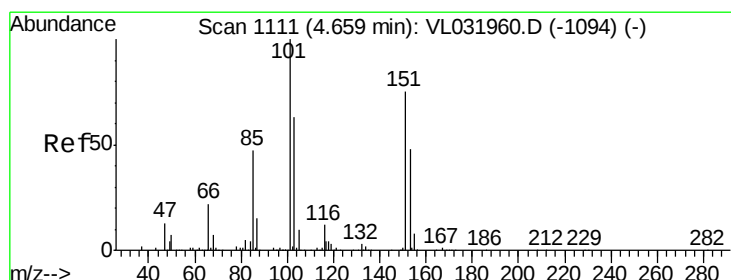
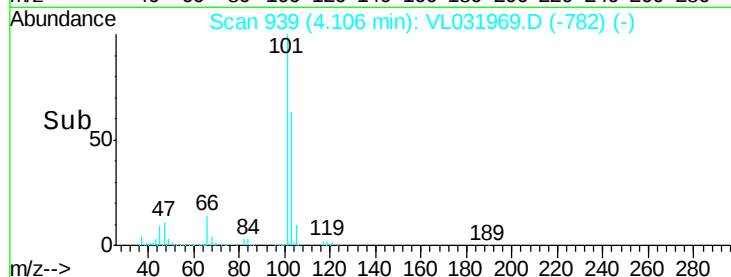
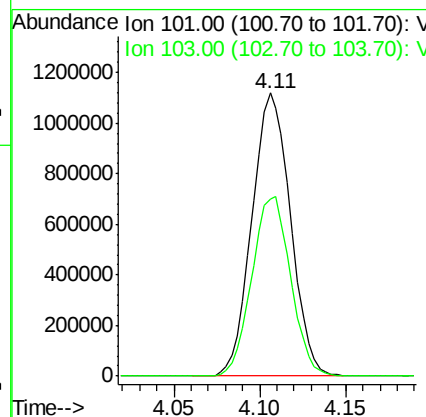
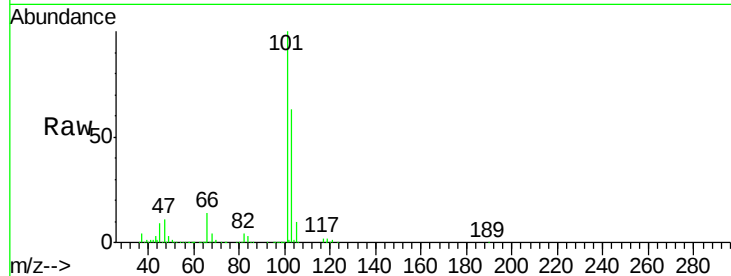
#11
 Trichlorofluoromethane
 Concen: 8.69 ppbv
 RT: 4.11 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion:101 Resp: 1738167
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.7 76.1

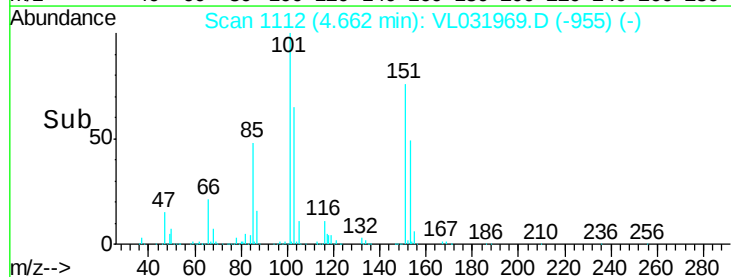
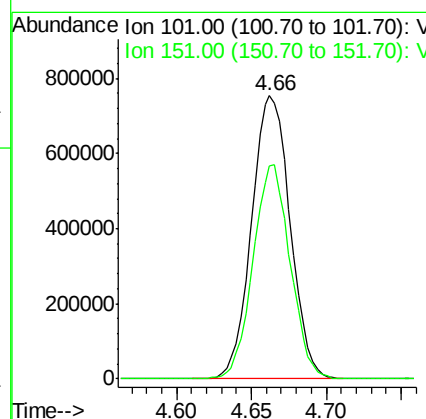
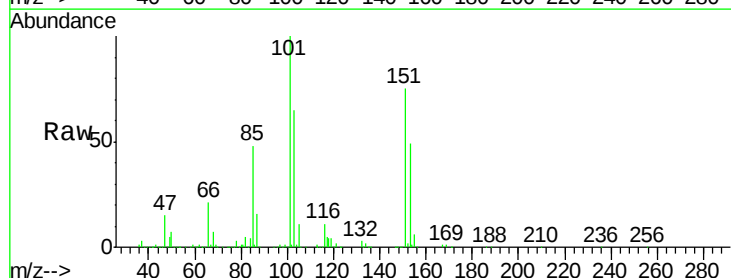
Manual Integrations
 APPROVED

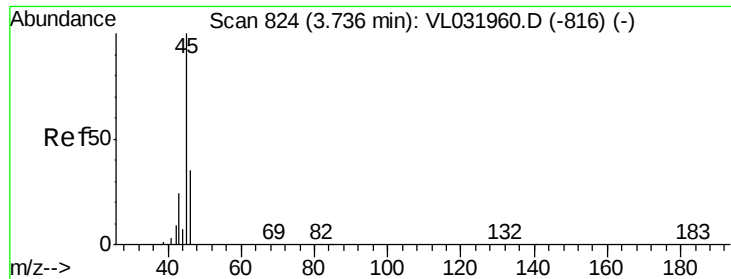
MMDadoda
 5/4/2018 5:01:03 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.57 ppbv
 RT: 4.66 min Scan# 1112
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion:101 Resp: 1347828
 Ion Ratio Lower Upper
 101 100
 151 73.4 60.2 90.2





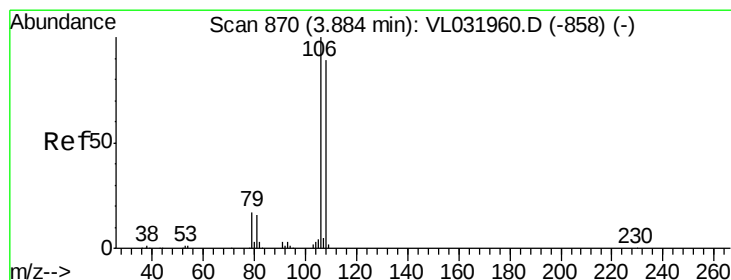
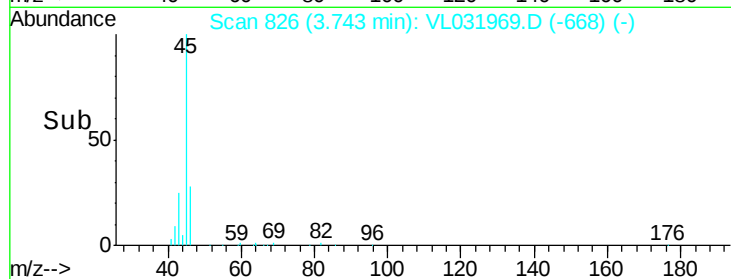
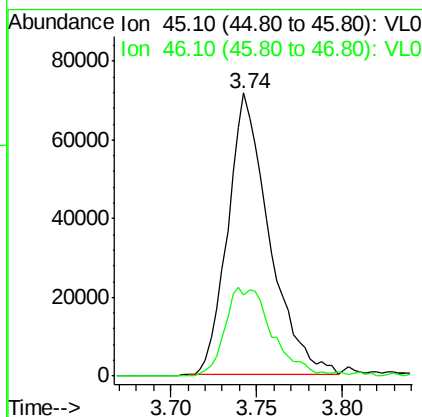
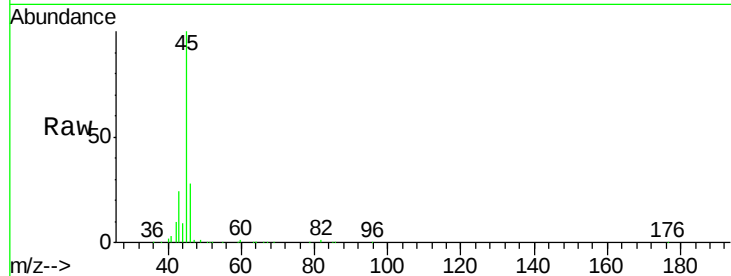
#13
Ethanol
Concen: 7.47 ppbv
RT: 3.74 min Scan# 826
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.3	0.0	0.0#

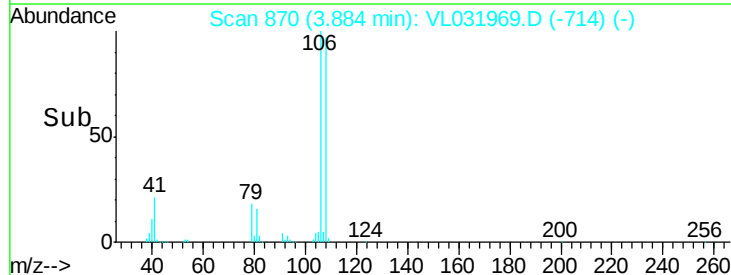
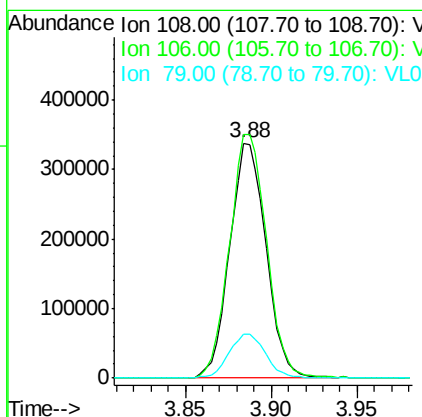
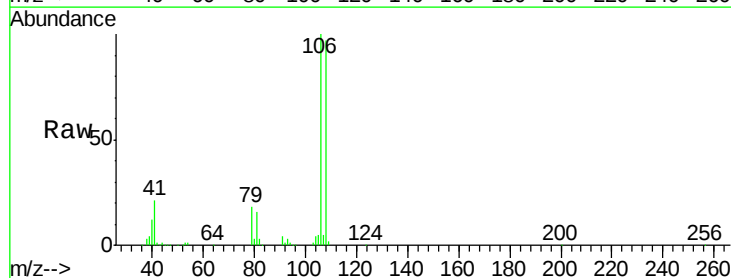
Manual Integrations
APPROVED

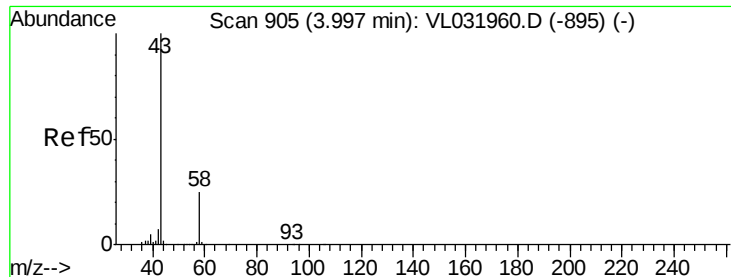
MMDadoda
5/4/2018 5:01:03 PM



#14
Bromoethene
Concen: 9.52 ppbv
RT: 3.88 min Scan# 870
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.3	86.8	130.2
79	19.1	14.7	22.1





#15

Acetone

Concen: 6.82 ppbv

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Tot Ion: 43 Resp: 1208716

Ion Ratio Lower Upper

43 100

58 25.4 21.1 31.7

Instrument :

MSVOA_L

ClientSampleId :

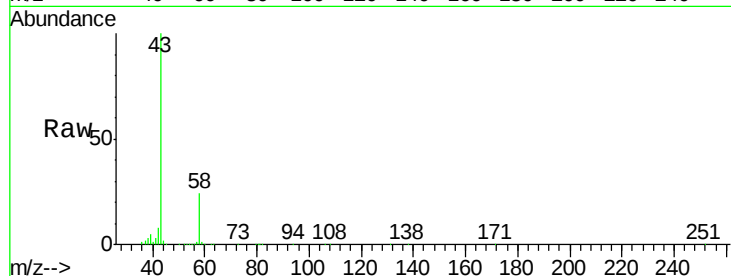
VL0503ABS01

Manual Integrations

APPROVED

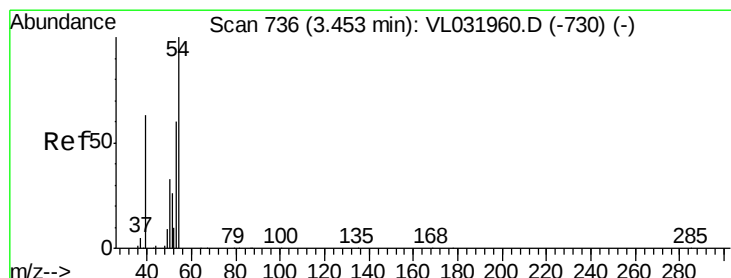
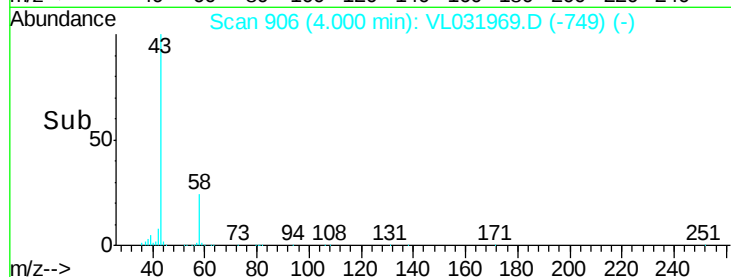
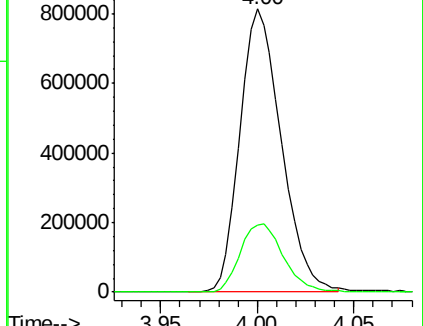
MMDadoda

5/4/2018 5:01:03 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.89 ppbv

RT: 3.45 min Scan# 736

Delta R.T. 0.00 min

Lab File: VL031969.D

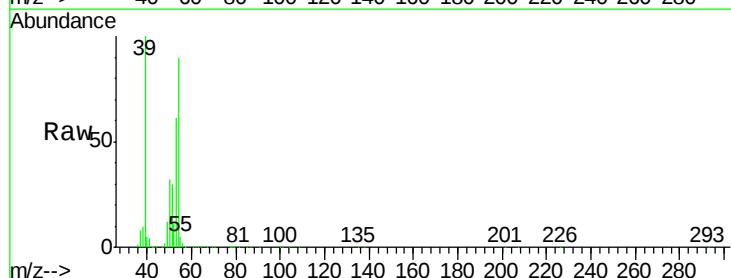
Acq: 3 May 2018 18:34

Tgt Ion: 39 Resp: 563352

Ion Ratio Lower Upper

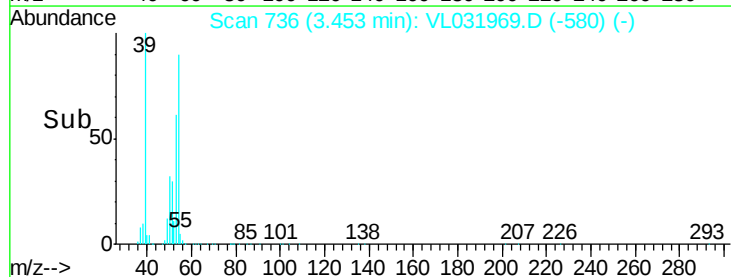
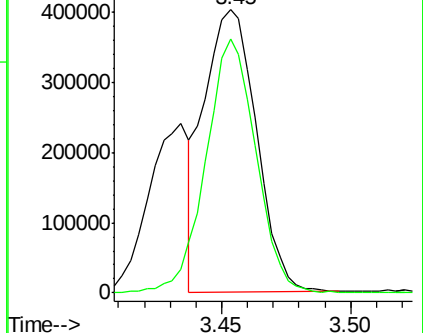
39 100

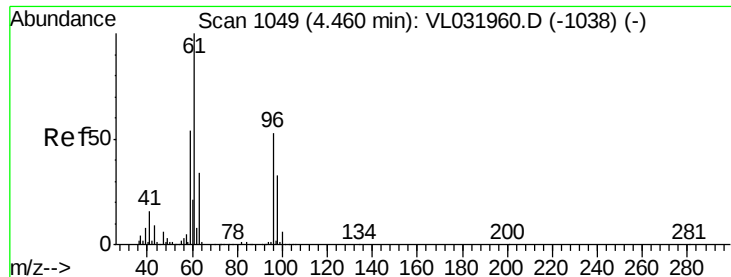
54 86.8 66.2 99.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





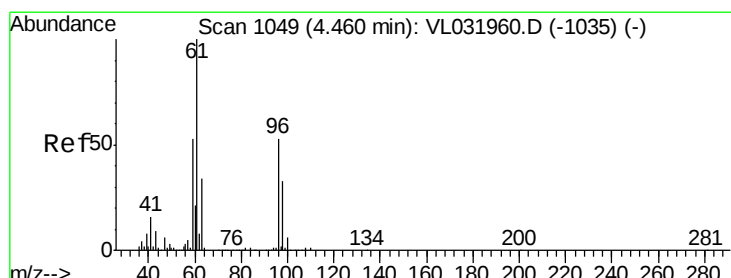
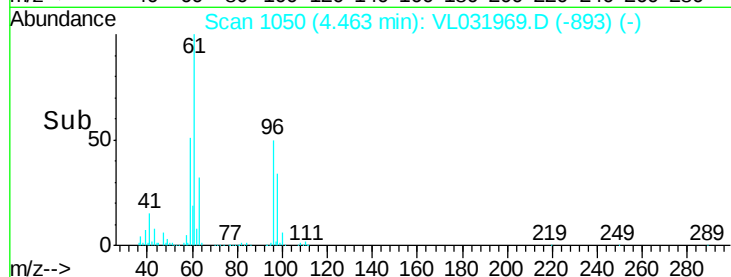
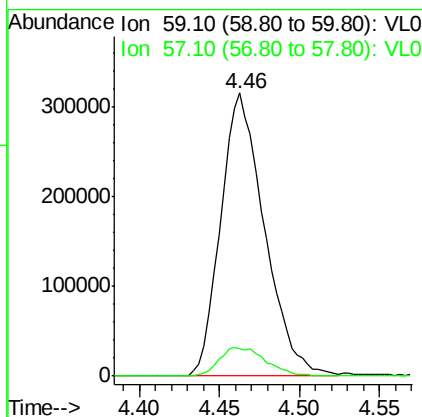
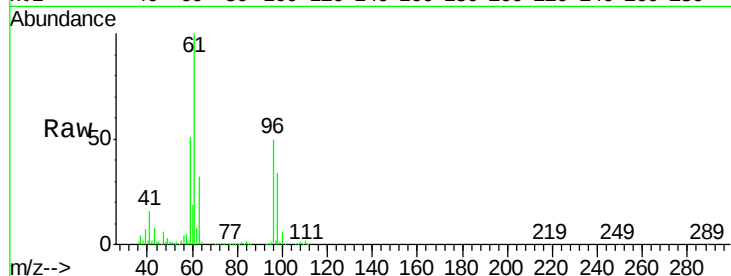
#17
 tert-Butyl alcohol
 Concen: 7.99 ppbv
 RT: 4.46 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion: 59 Resp: 585909
 Ion Ratio Lower Upper
 59 100
 57 11.0 8.3 12.5

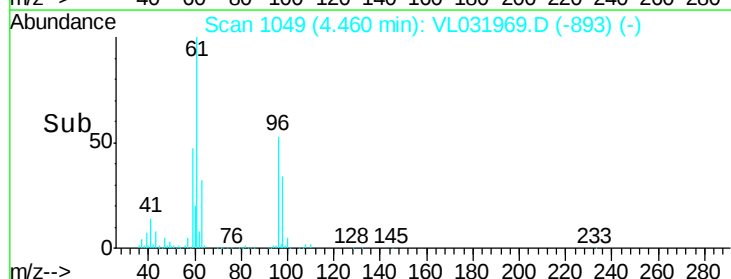
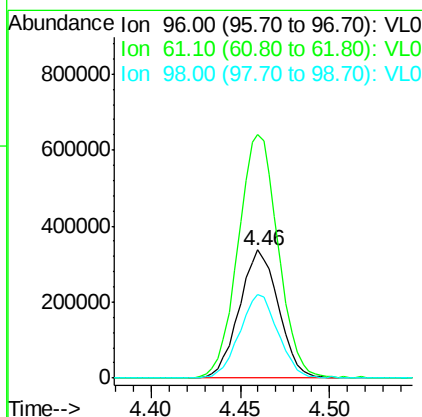
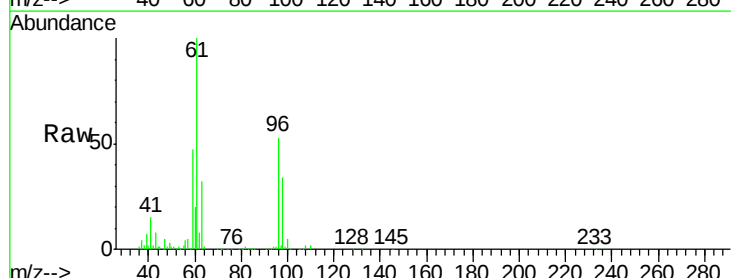
Manual Integrations
 APPROVED

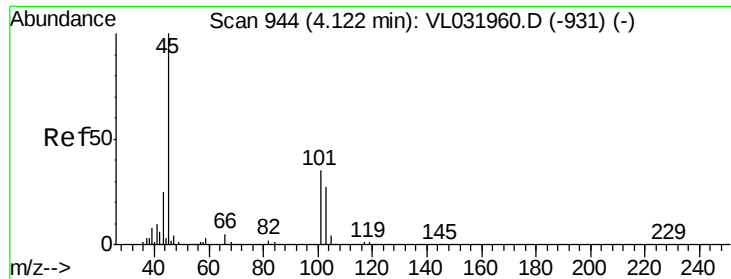
MMDadoda
 5/4/2018 5:01:03 PM



#18
 1,1-Dichloroethene
 Concen: 8.40 ppbv
 RT: 4.46 min Scan# 1049
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion: 96 Resp: 518640
 Ion Ratio Lower Upper
 96 100
 61 189.5 149.9 224.9
 98 65.0 49.7 74.5





#19

Isopropyl Alcohol

Concen: 8.29 ppbv

RT: 4.13 min Scan# 945

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 45 Resp: 794244

Ion Ratio Lower Upper

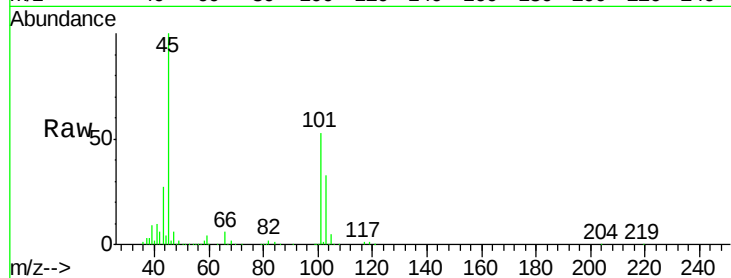
45 100

58 2.1 1.4 2.2

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:03 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.13

400000

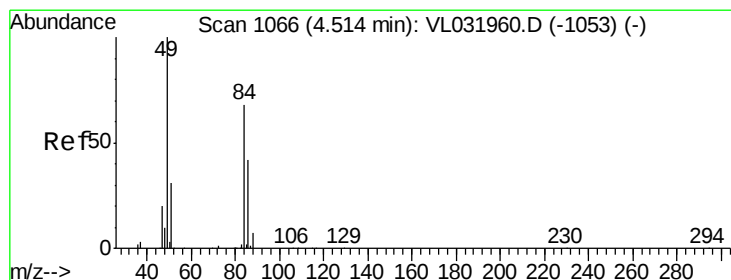
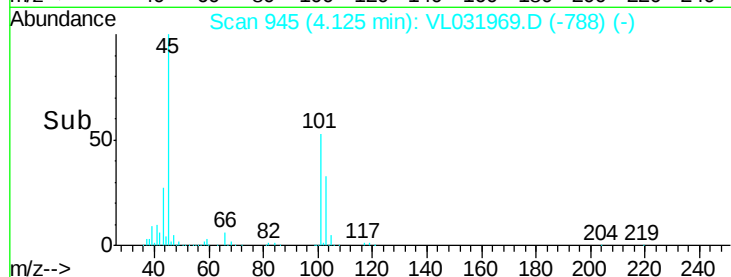
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.53 ppbv

RT: 4.52 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Tgt Ion: 84 Resp: 510067

Ion Ratio Lower Upper

84 100

49 144.0 118.6 178.0

51 43.9 36.6 54.8

86 61.7 49.8 74.8

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

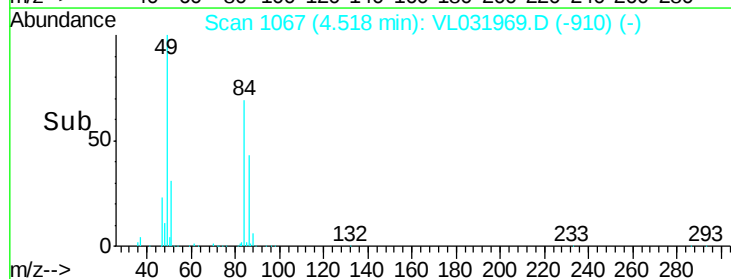
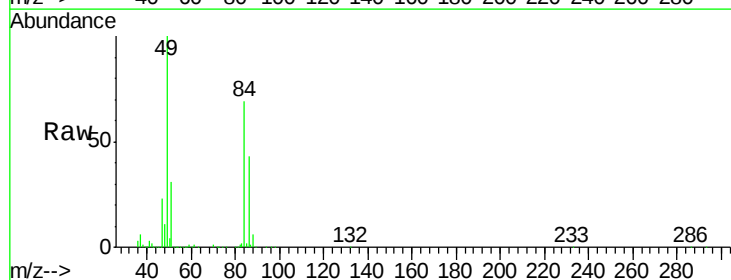
4.52

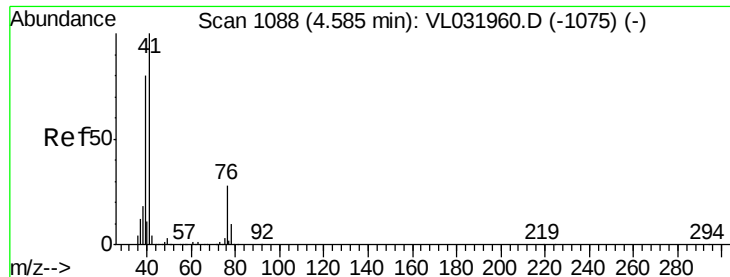
400000

200000

0

Time-->





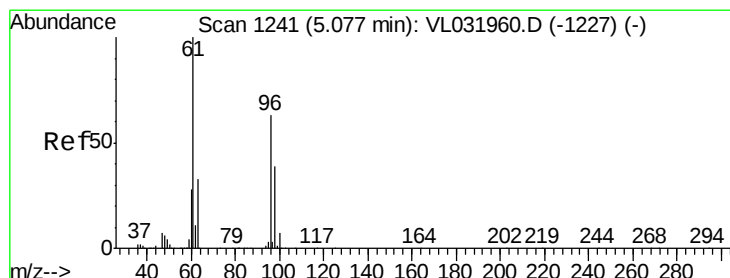
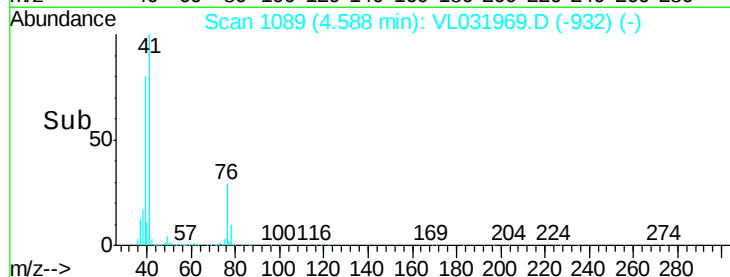
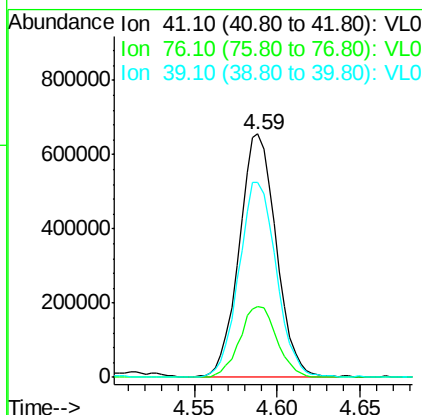
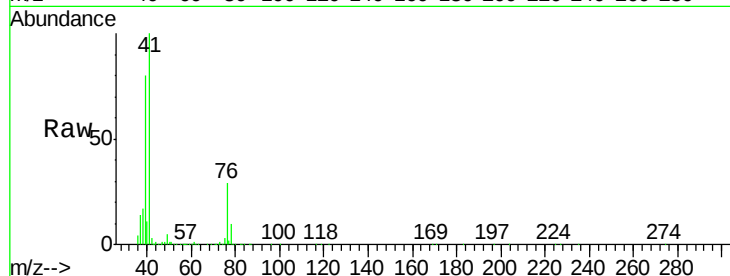
#21
Allvl Chloride
Concen: 10.03 ppbv
RT: 4.59 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.4	23.4	35.0
39	81.3	64.5	96.7

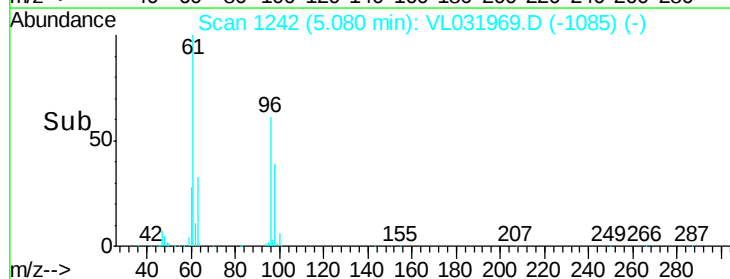
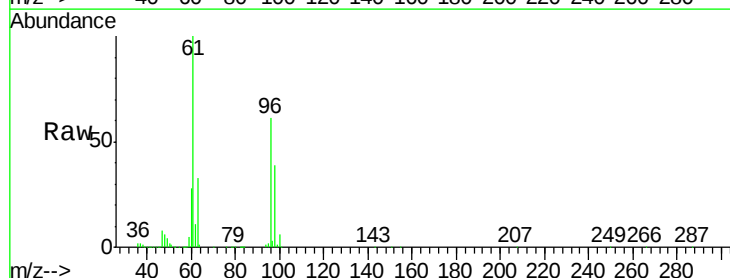
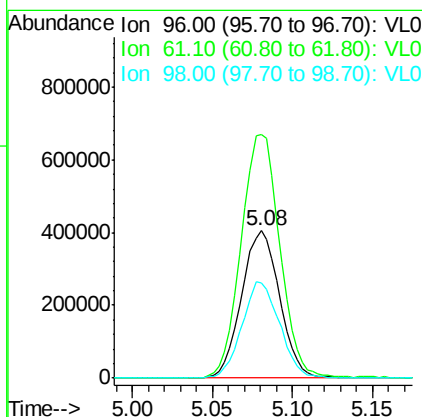
Manual Integrations
APPROVED

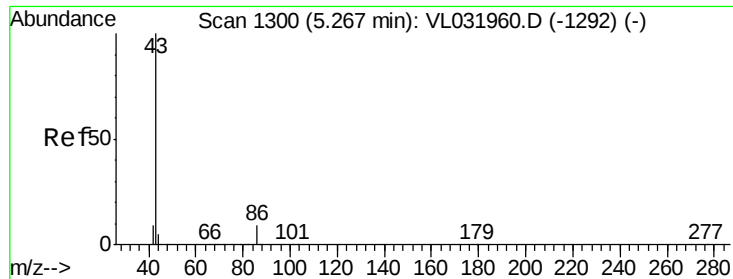
MMDadoda
5/4/2018 5:01:03 PM



#22
trans-1,2-Dichloroethene
Concen: 9.60 ppbv
RT: 5.08 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.0	127.7	191.5
98	64.6	49.3	73.9





#23

Vinyl Acetate

Concen: 9.91 ppbv

RT: 5.27 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Tot Ion: 43 Resp: 2006392

Ion Ratio Lower Upper

43 100

86 7.6 6.1 9.1

42 10.5 8.0 12.0

44 5.1 3.9 5.9

Instrument :

MSVOA_L

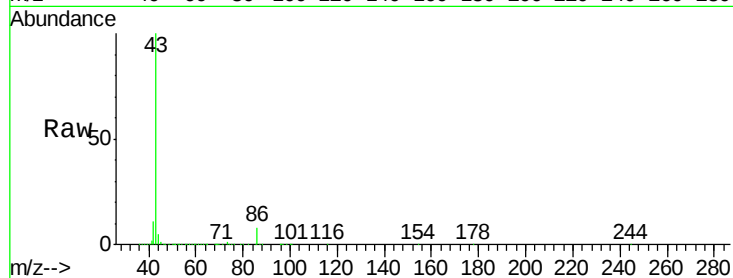
ClientSampleId :

VL0503ABS01

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:03 PM

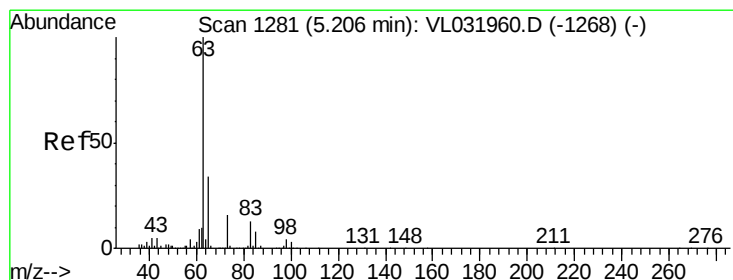
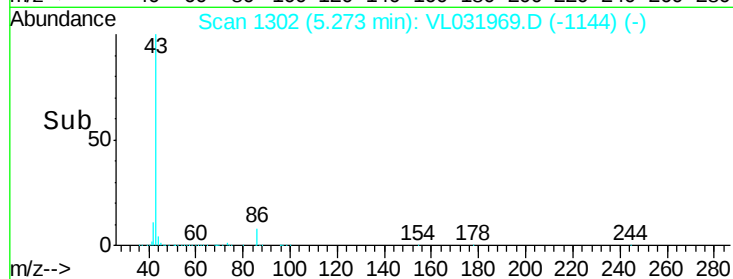
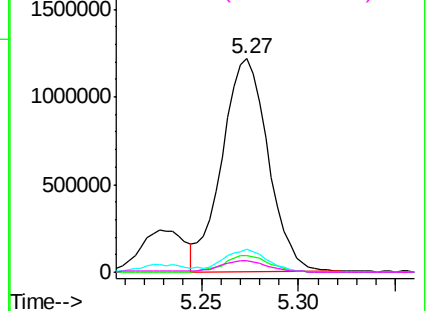


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.08 ppbv

RT: 5.21 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

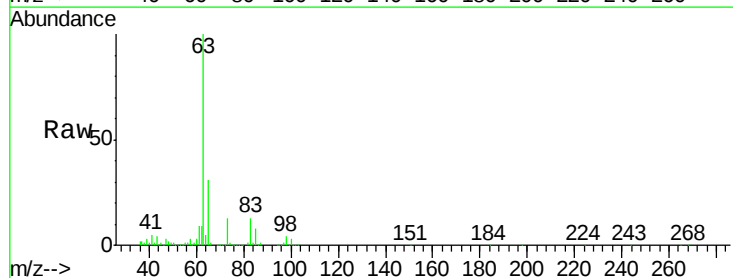
Tgt Ion: 63 Resp: 1715957

Ion Ratio Lower Upper

63 100

98 4.2 2.2 6.6

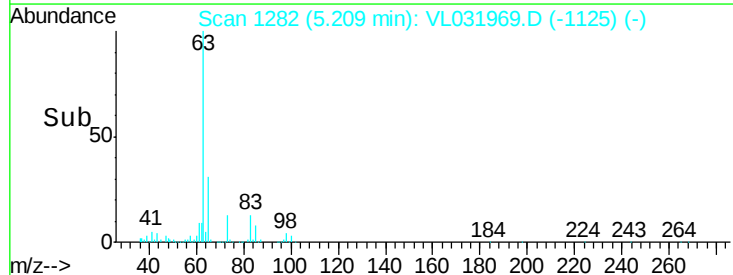
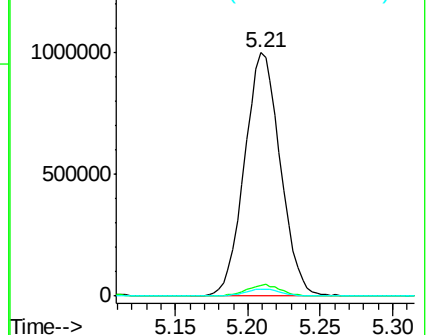
100 2.8 1.5 4.5

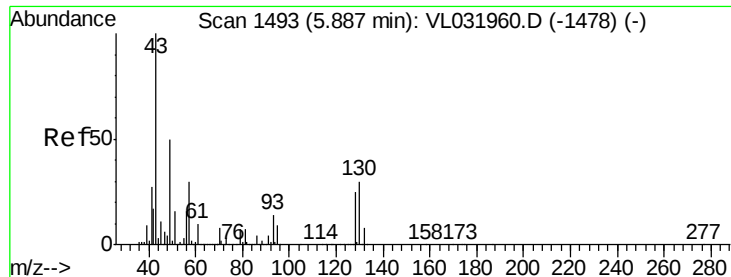


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





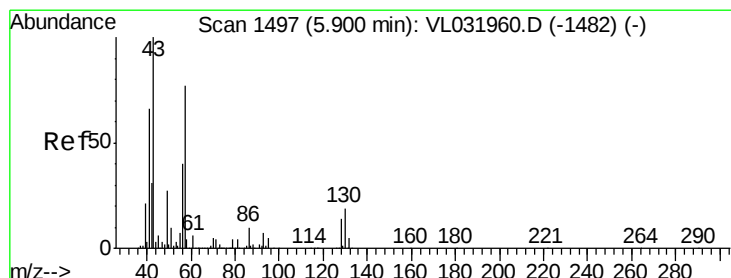
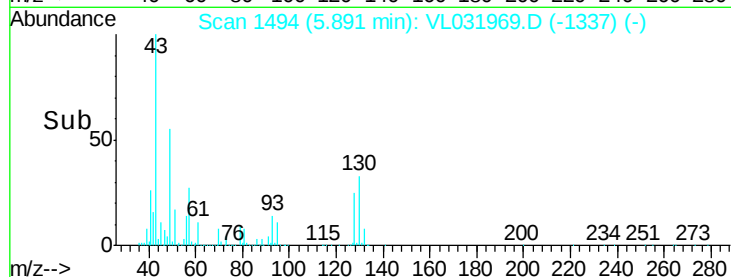
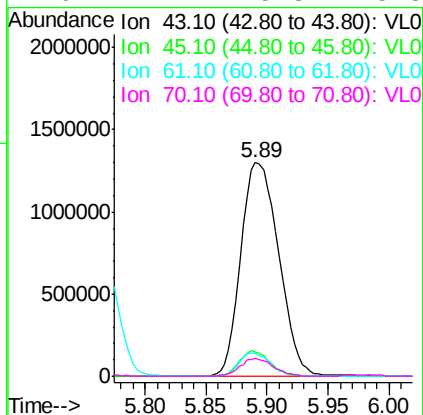
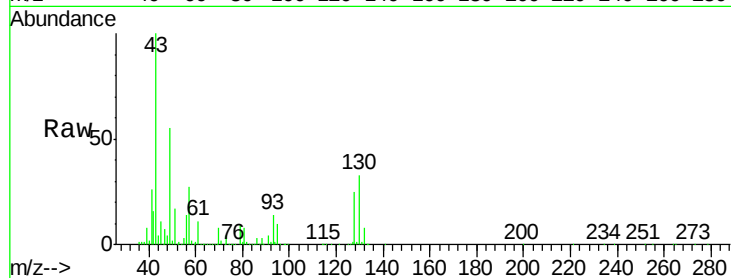
#25
Ethyl Acetate
Concen: 9.16 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.6	7.8	11.6	
61	9.3	7.4	11.2	
70	7.2	5.8	8.8	

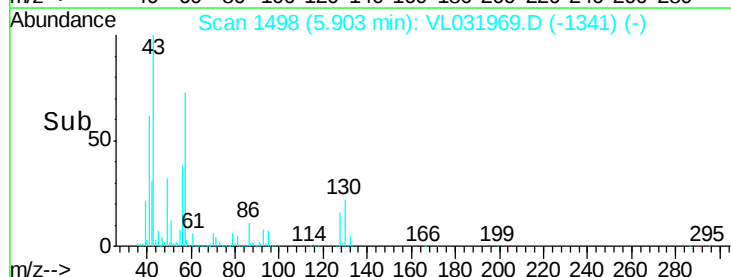
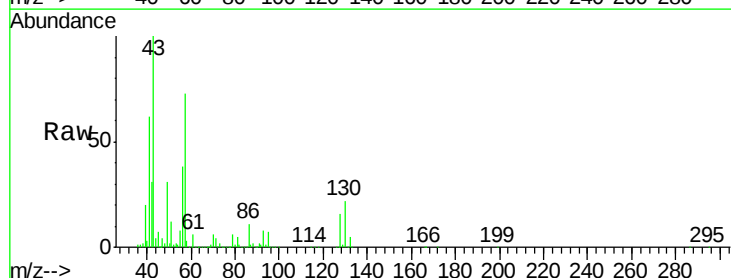
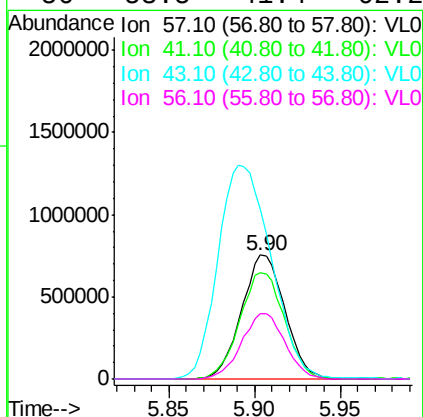
Manual Integrations
APPROVED

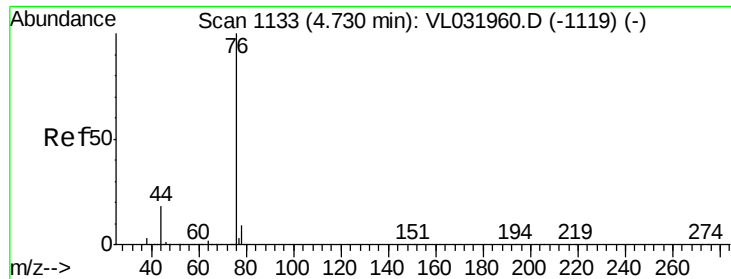
MMDadoda
5/4/2018 5:01:03 PM



#26
Hexane
Concen: 9.17 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.9	71.8	107.6	
43	213.3	171.5	257.3	
56	53.5	41.4	62.2	





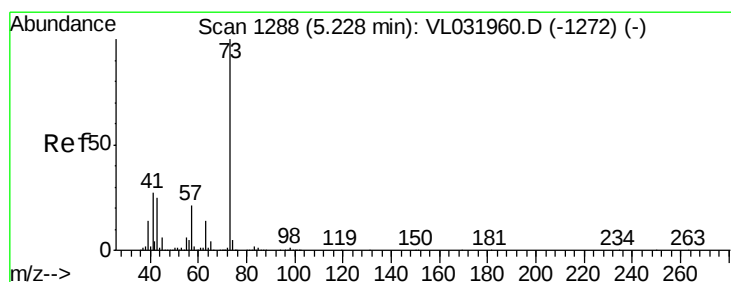
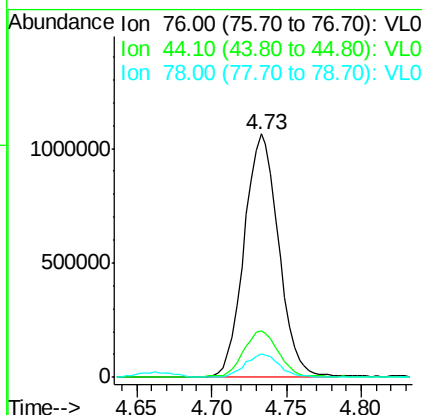
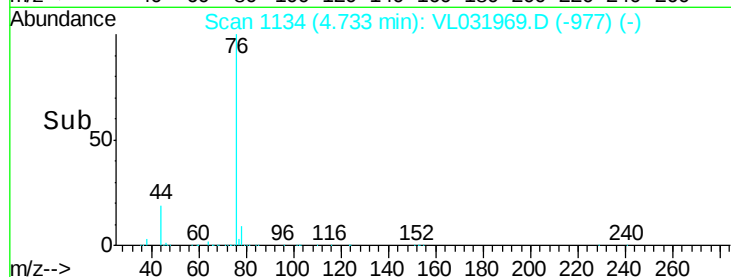
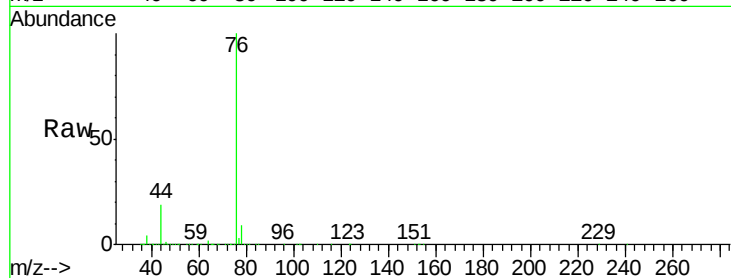
#27
Carbon Disulfide
Concen: 10.65 ppbv
RT: 4.73 min Scan# 1134
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.0	15.4	23.0
78	9.6	7.4	11.0

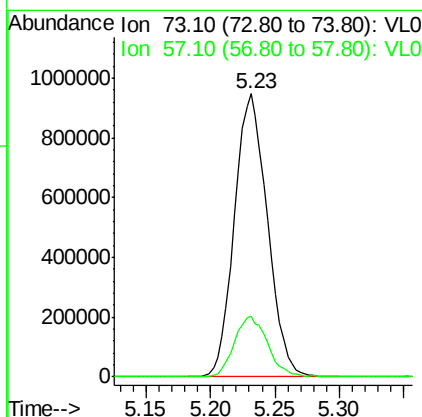
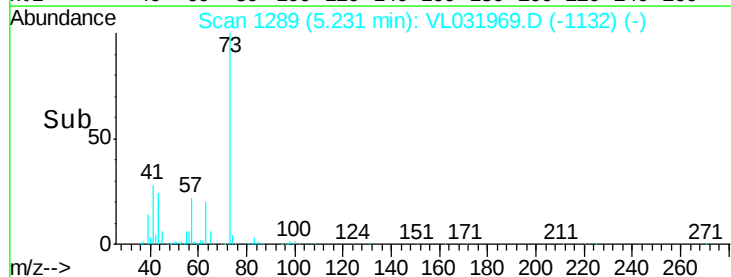
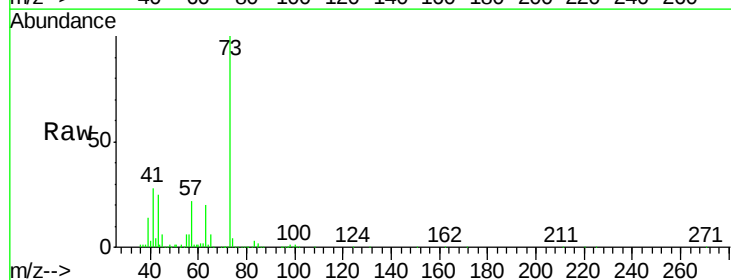
Manual Integrations
APPROVED

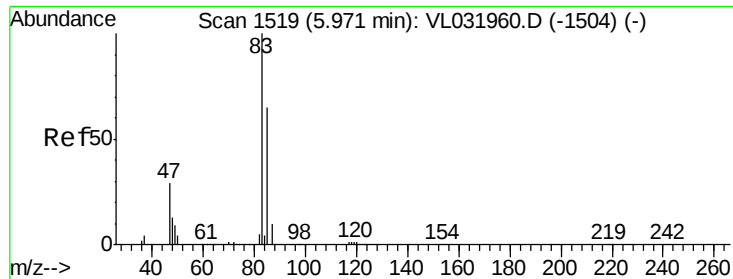
MMDadoda
5/4/2018 5:01:03 PM



#28
Methyl tert-Butyl Ether
Concen: 9.59 ppbv
RT: 5.23 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.6	26.4





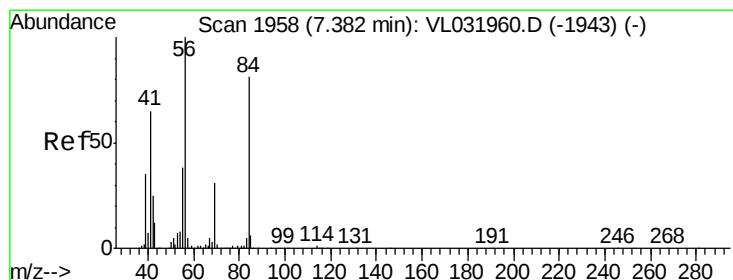
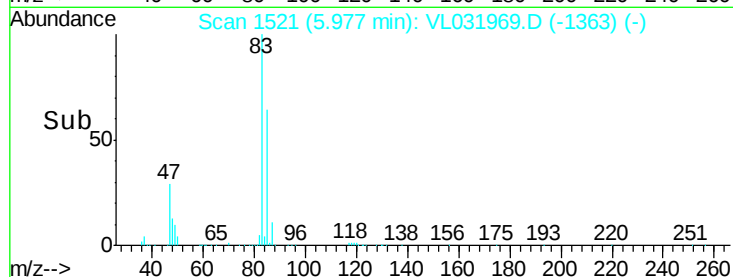
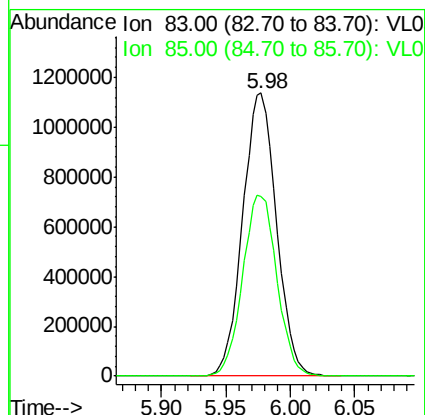
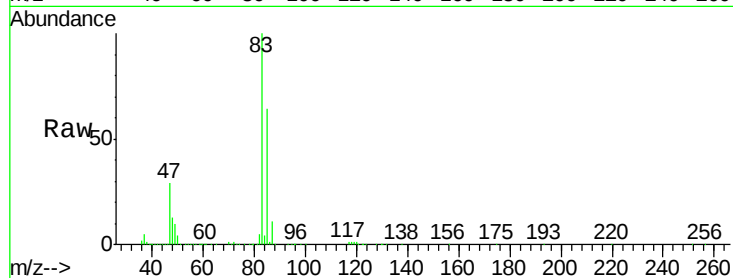
#29
Chloroform
Concen: 9.17 ppbv
RT: 5.98 min Scan# 1521
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion: 83 Resp: 2075116
Ion Ratio Lower Upper
83 100
85 63.5 52.2 78.2

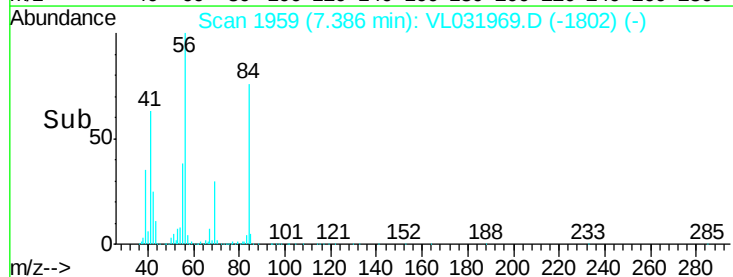
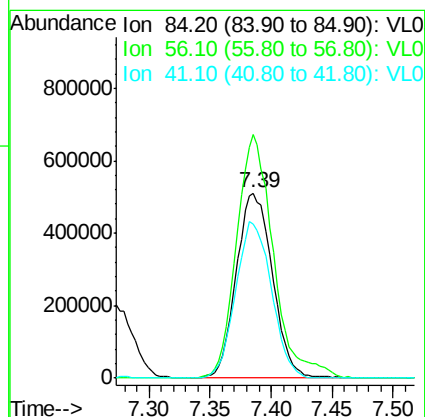
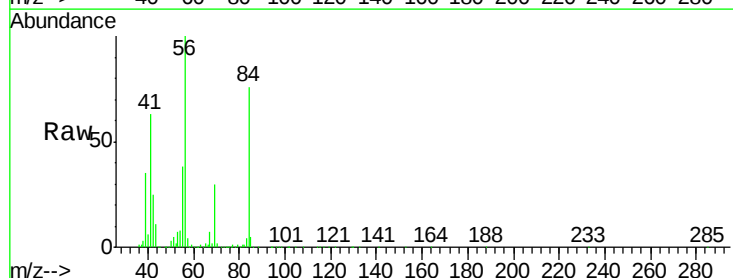
Manual Integrations
APPROVED

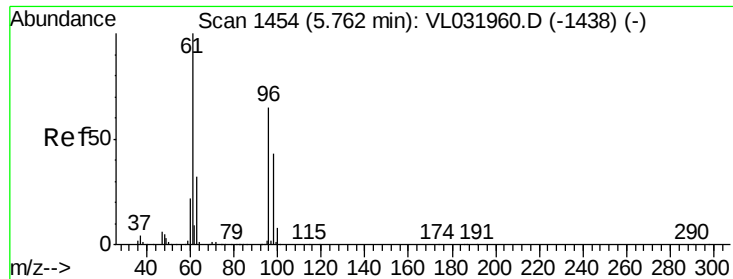
MMDadoda
5/4/2018 5:01:03 PM



#30
Cyclohexane
Concen: 10.99 ppbv
RT: 7.39 min Scan# 1959
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion: 84 Resp: 1047360
Ion Ratio Lower Upper
84 100
56 134.4 108.0 162.0
41 83.5 66.8 100.2





#31

cis-1,2-Dichloroethene

Concen: 9.49 ppbv

RT: 5.77 min Scan# 1455

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 61 Resp: 1242135

Ion Ratio Lower Upper

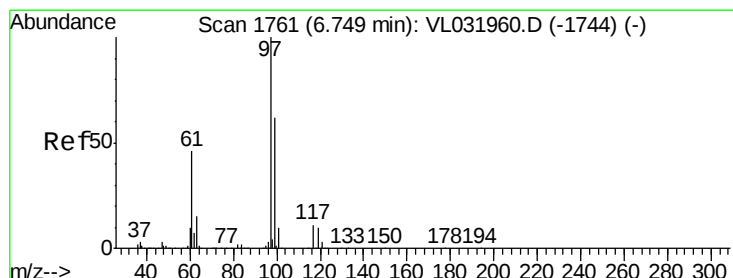
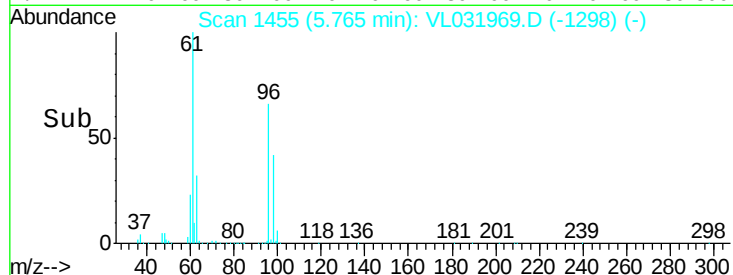
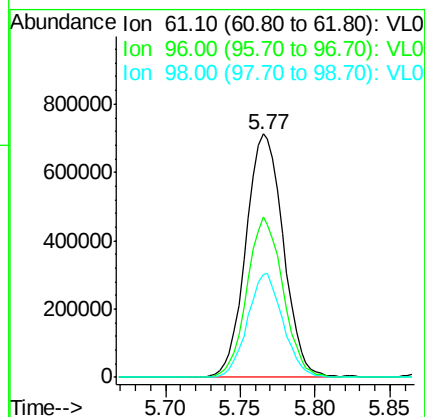
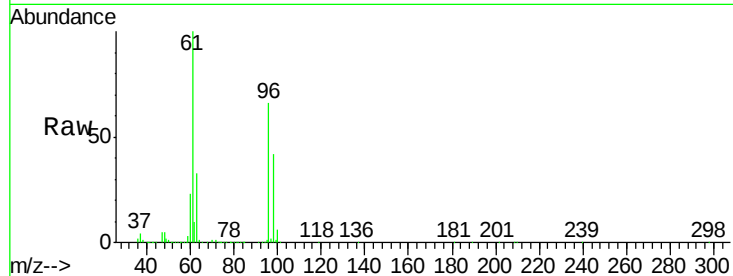
61 100

96 66.1 51.8 77.6

98 42.3 34.2 51.4

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:03 PM



#32

1,1,1-Trichloroethane

Concen: 10.56 ppbv

RT: 6.76 min Scan# 1763

Delta R.T. 0.01 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

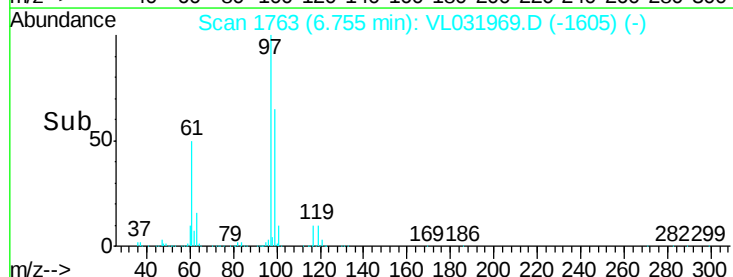
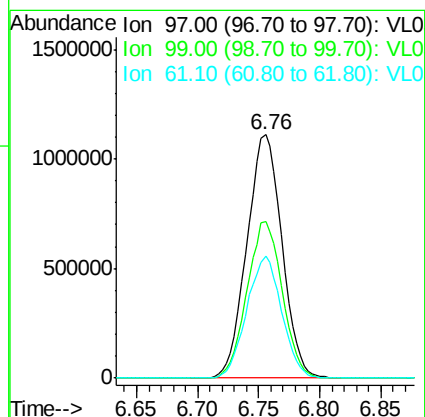
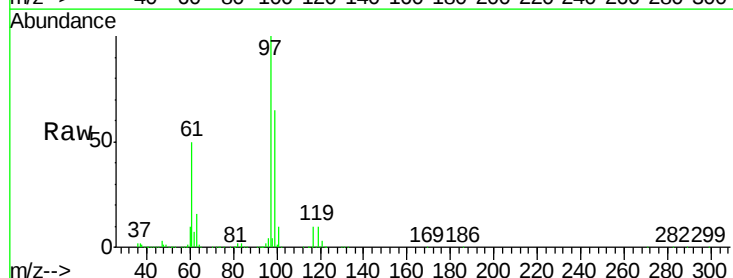
Tgt Ion: 97 Resp: 2202283

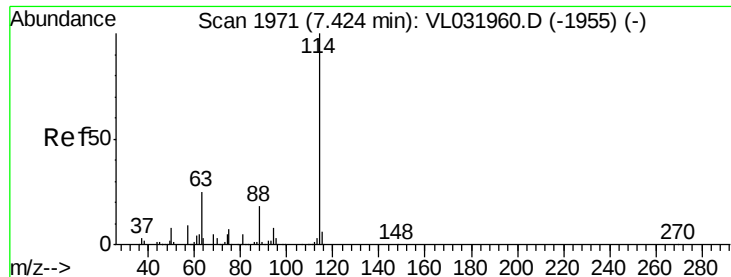
Ion Ratio Lower Upper

97 100

99 64.7 51.0 76.6

61 50.0 38.1 57.1





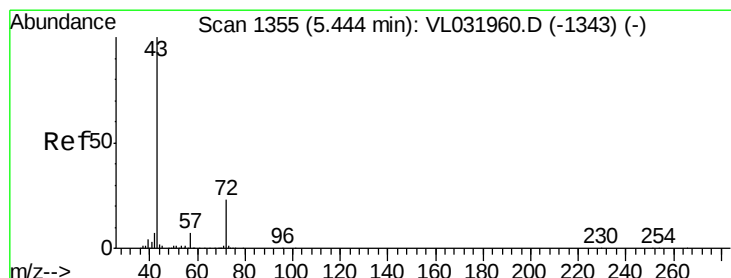
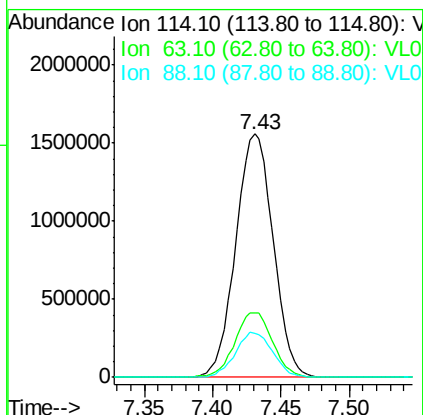
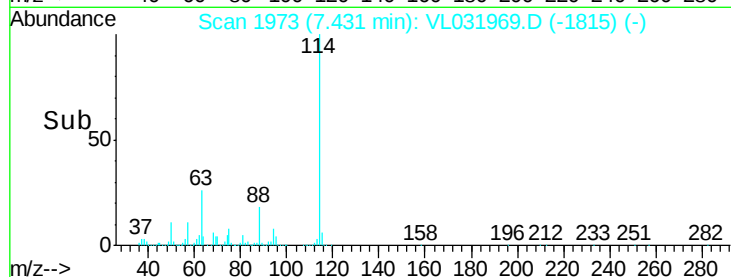
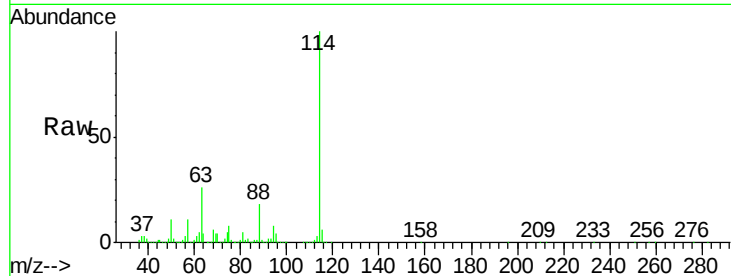
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.43 min Scan# 1973
 Delta R.T. 0.01 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion:114 Resp: 2976263
 Ion Ratio Lower Upper
 114 100
 63 27.1 20.8 31.2
 88 18.5 14.6 21.8

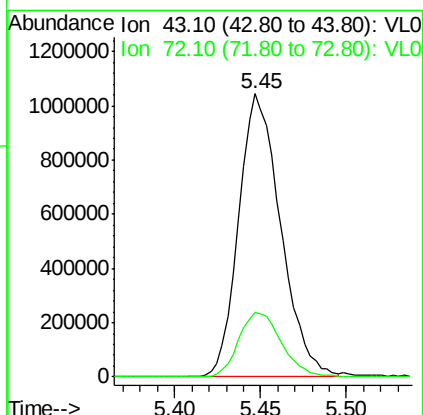
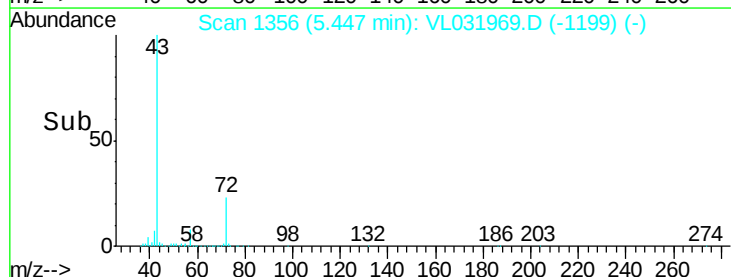
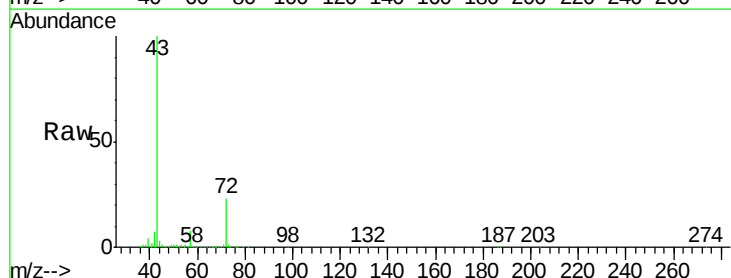
Manual Integrations
 APPROVED

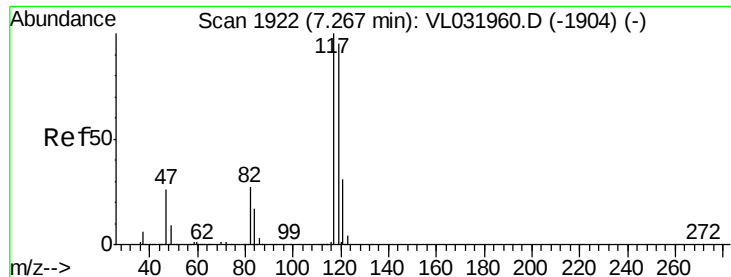
MMDadoda
 5/4/2018 5:01:03 PM



#34
 2-Butanone
 Concen: 7.20 ppbv
 RT: 5.45 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion: 43 Resp: 1767834
 Ion Ratio Lower Upper
 43 100
 72 23.6 18.3 27.5





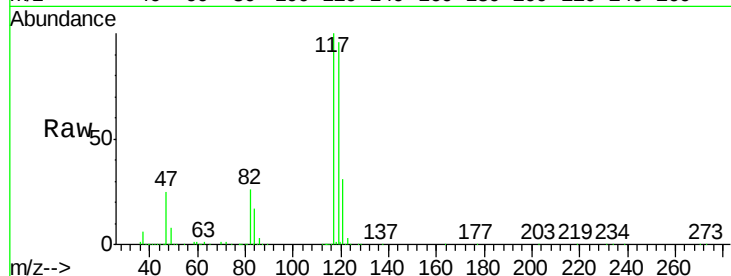
#35
Carbon Tetrachloride
Concen: 10.01 ppbv
RT: 7.27 min Scan# 1924
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.4	114.6
121	30.5	24.4	36.6

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:03 PM

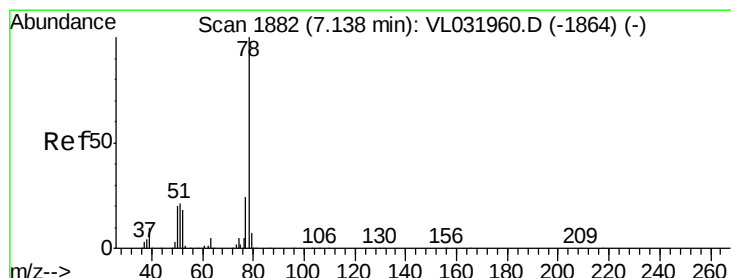
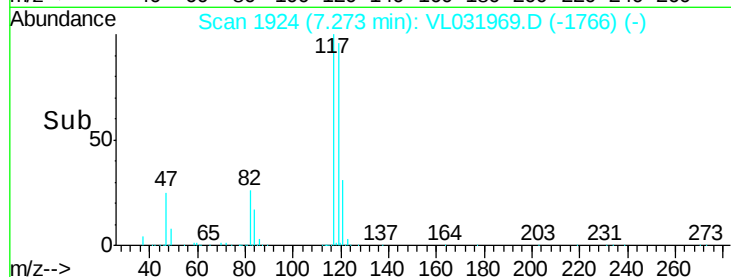
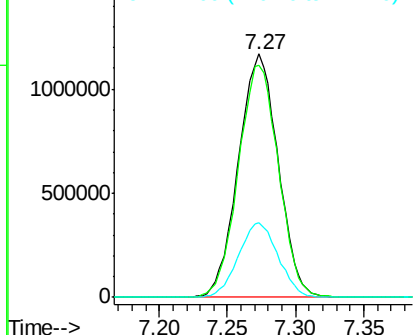


Abundance

Ion 117.00 (116.70 to 117.70): V

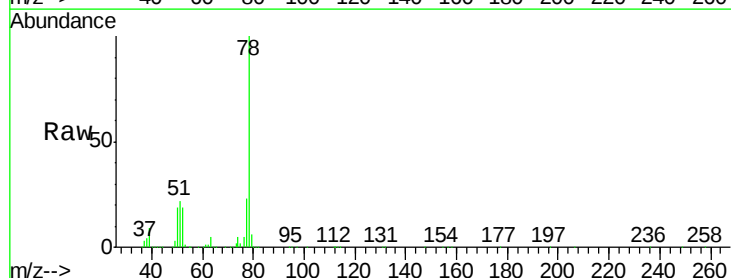
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 9.95 ppbv
RT: 7.14 min Scan# 1884
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.2	28.8
50	19.2	16.2	24.4

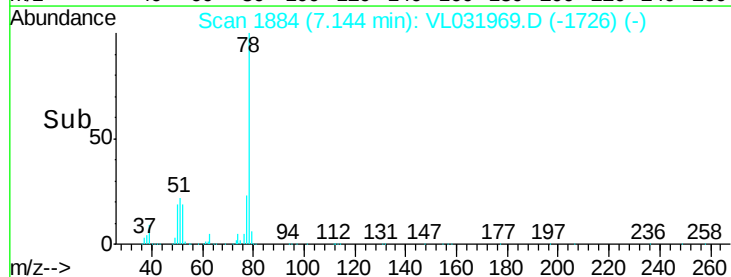
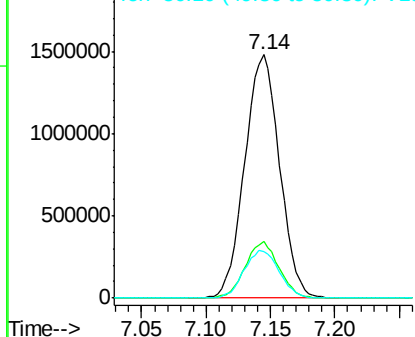


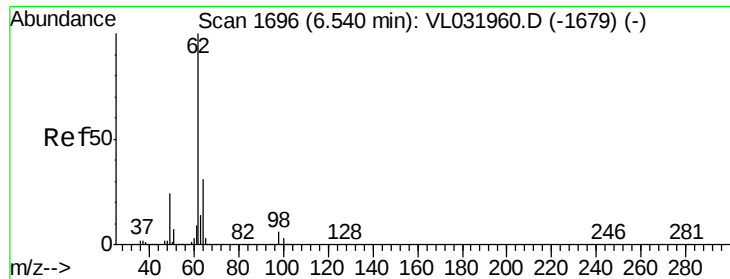
Abundance

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





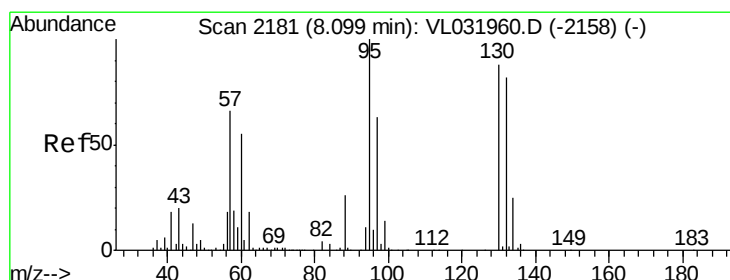
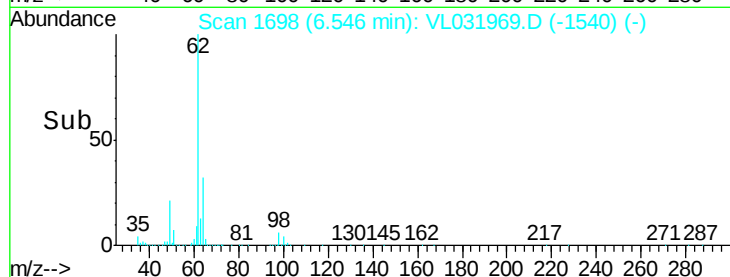
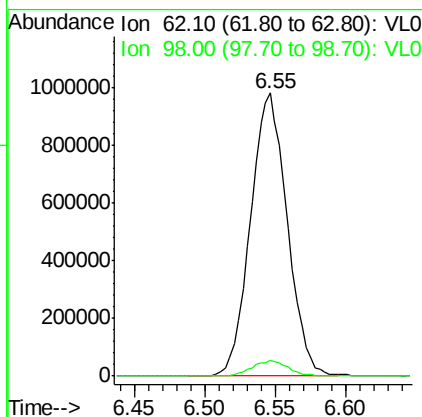
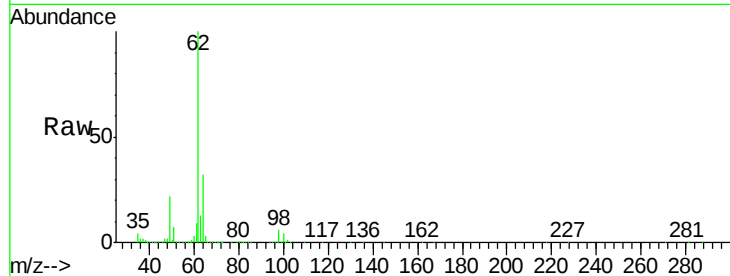
#37
 1,2-Dichloroethane
 Concen: 8.87 ppbv
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.01 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion: 62 Resp: 1788120
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.6 6.8

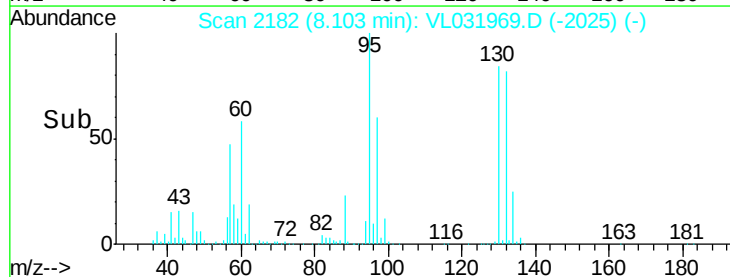
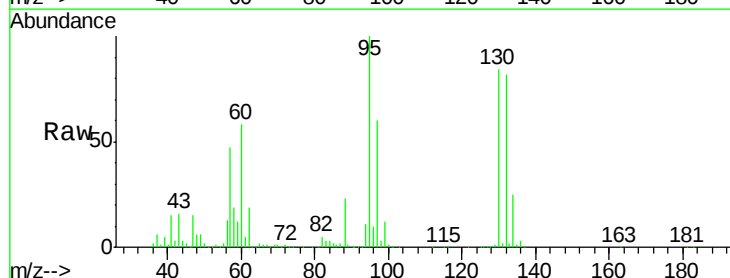
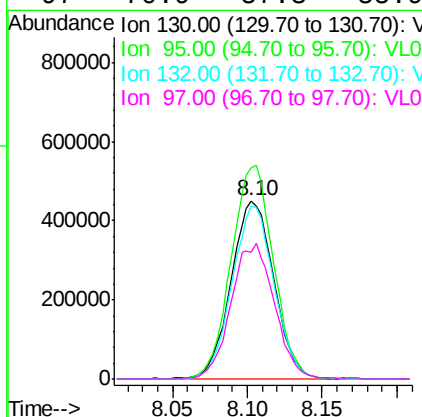
Manual Integrations
 APPROVED

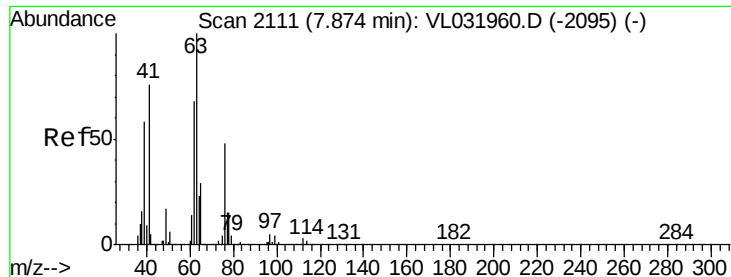
MMDadoda
 5/4/2018 5:01:03 PM



#38
 Trichloroethene
 Concen: 8.33 ppbv
 RT: 8.10 min Scan# 2182
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion:130 Resp: 886911
 Ion Ratio Lower Upper
 130 100
 95 118.5 90.7 136.1
 132 96.6 74.3 111.5
 97 70.9 57.3 85.9





#39

1,2-Dichloropropane

Concen: 8.30 ppbv

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 63 Resp: 810533

Ion Ratio Lower Upper

63 100

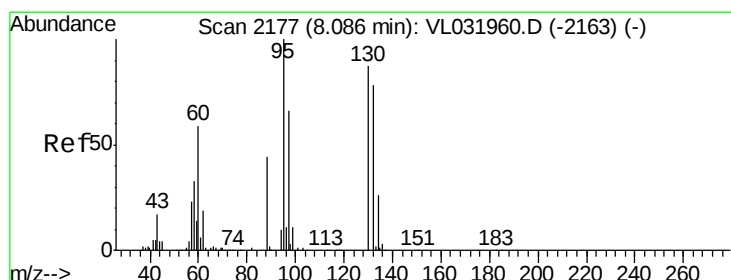
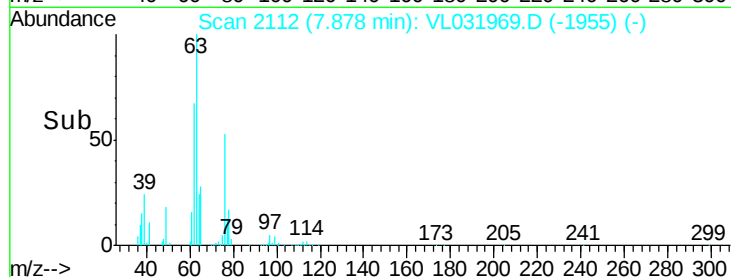
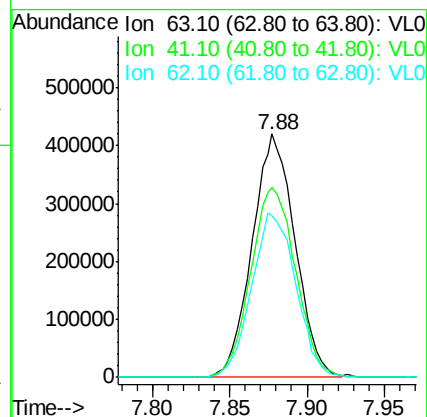
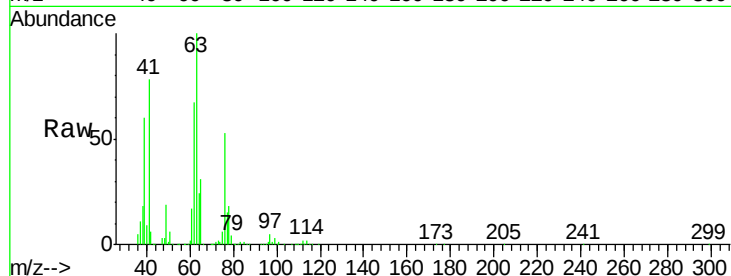
41 77.8 60.7 91.1

62 66.6 54.7 82.1

Manual Integrations
APPROVED

MMDadoda

5/4/2018 5:01:03 PM



#40

1,4-Dioxane

Concen: 7.37 ppbv

RT: 8.10 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Tgt Ion: 88 Resp: 324259

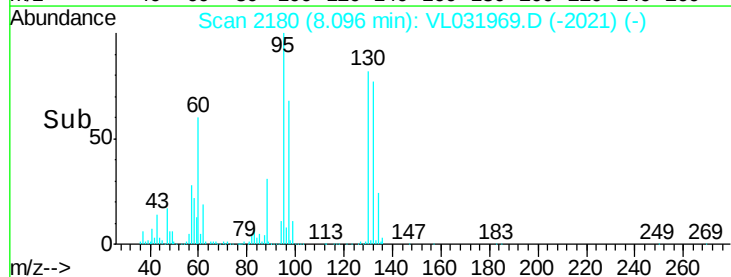
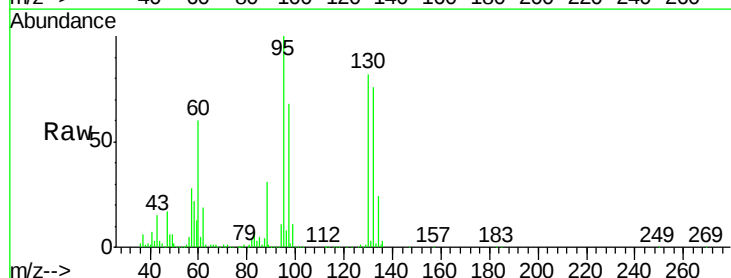
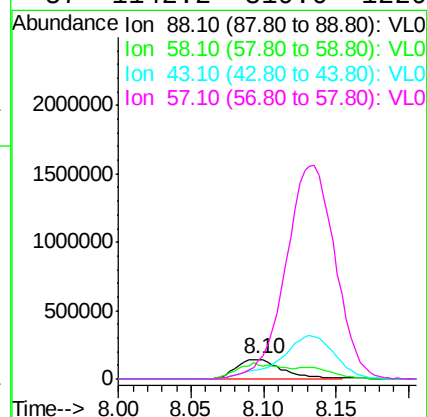
Ion Ratio Lower Upper

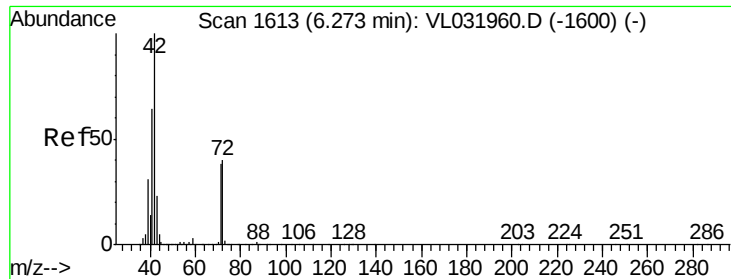
88 100

58 126.2 94.9 142.3

43 255.7 188.2 282.2

57 1142.2 819.6 1229.4





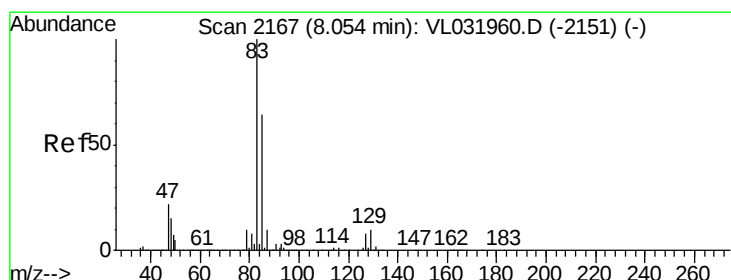
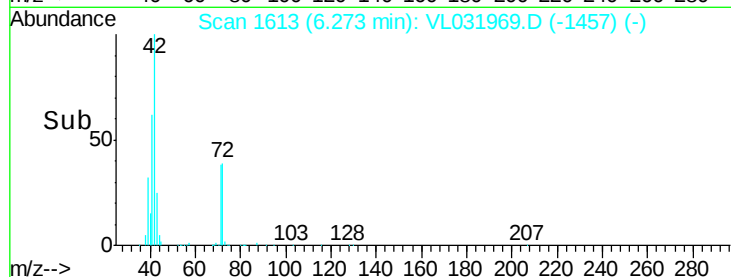
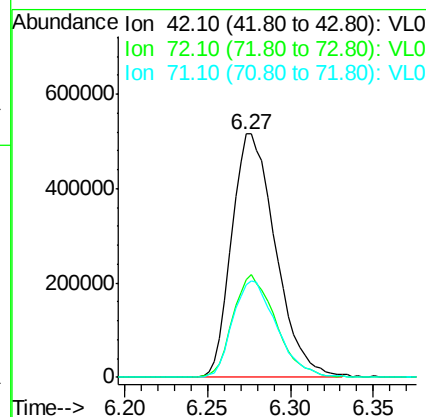
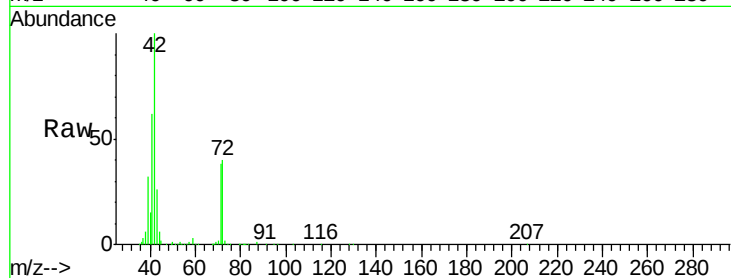
#41
Tetrahydrofuran
Concen: 8.88 ppbv
RT: 6.27 min Scan# 1613
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	32.3	48.5
71	39.7	31.4	47.2

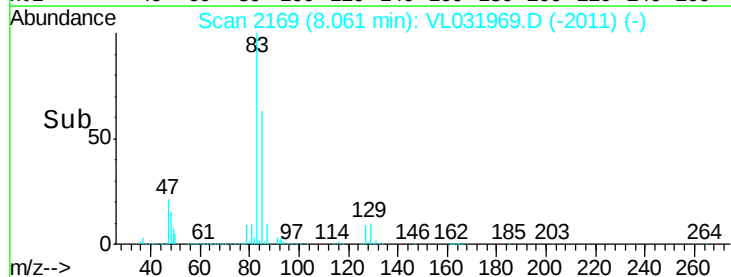
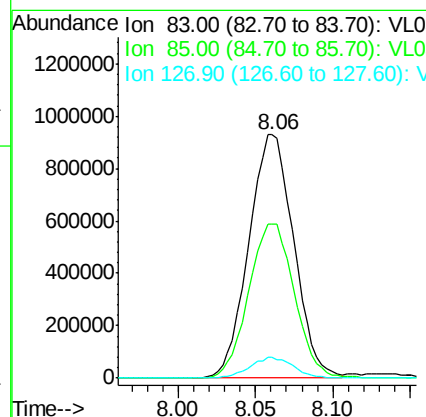
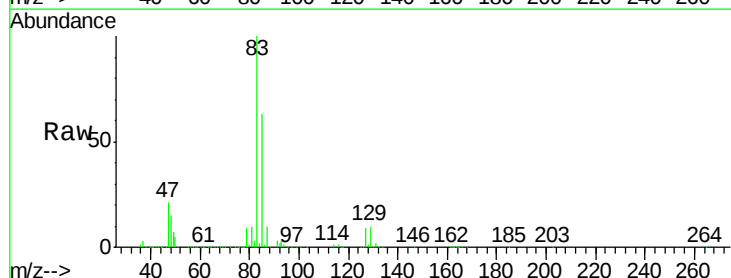
Manual Integrations
APPROVED

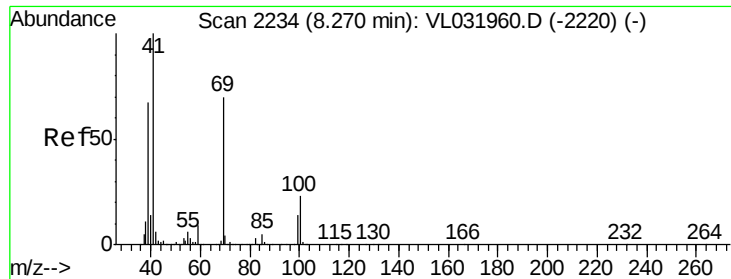
MMDadoda
5/4/2018 5:01:03 PM



#42
Bromodichloromethane
Concen: 8.36 ppbv
RT: 8.06 min Scan# 2169
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.0	76.6
127	8.7	6.7	10.1





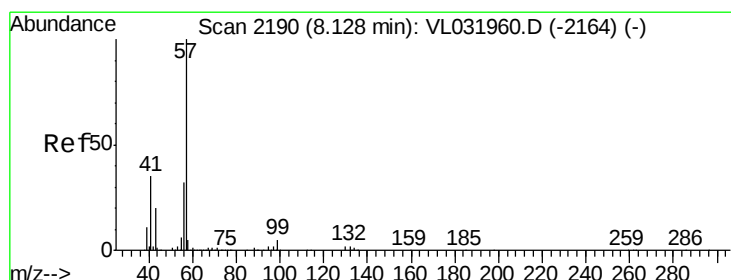
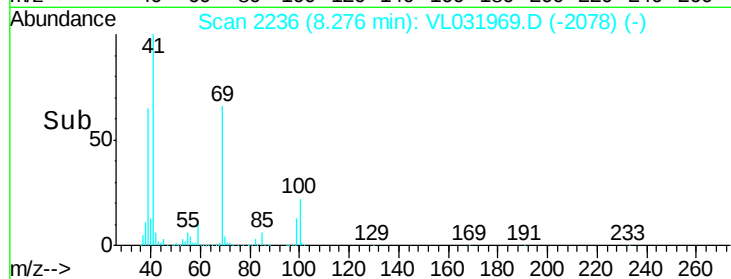
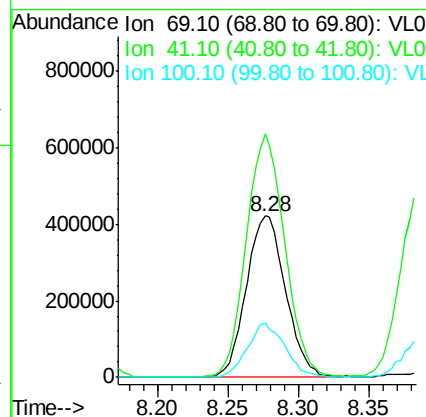
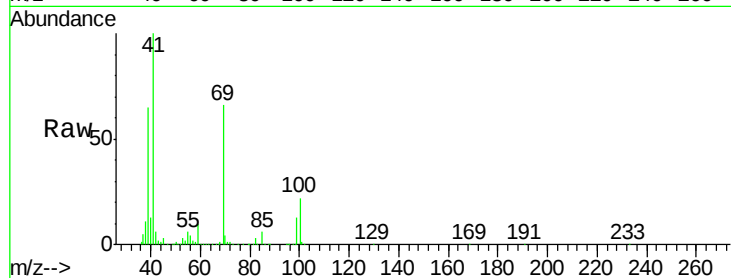
#43
Methvl Methacrylate
Concen: 8.71 ppbv
RT: 8.28 min Scan# 2236
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	148.0	119.4	179.2	
100	32.1	26.0	39.0	

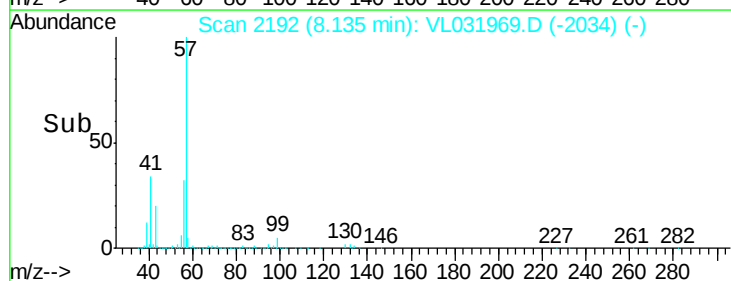
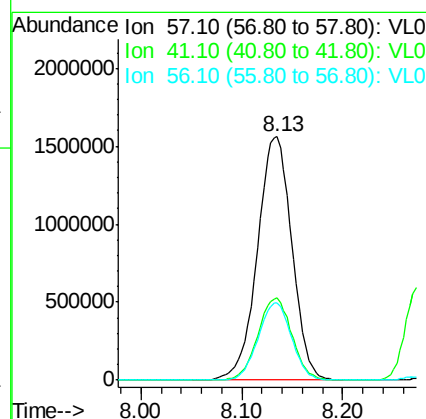
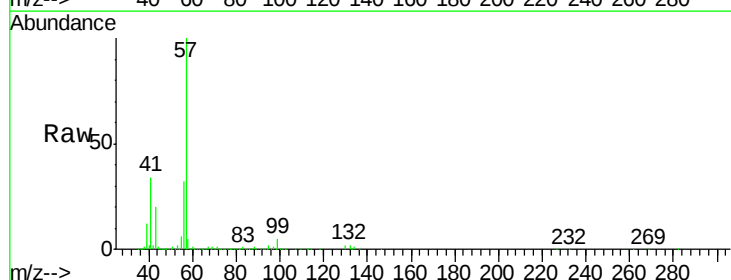
Manual Integrations
APPROVED

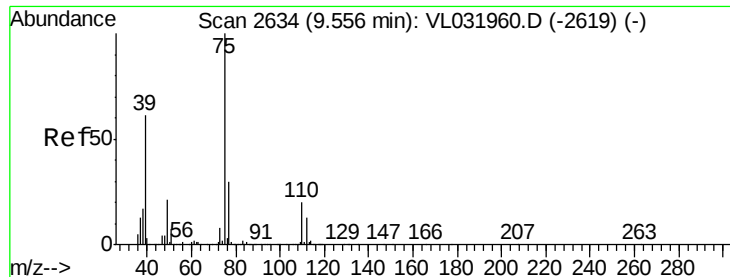
MMDadoda
5/4/2018 5:01:03 PM



#44
2,2,4-Trimethylpentane
Concen: 8.18 ppbv
RT: 8.13 min Scan# 2192
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.1	26.6	39.8	
56	30.7	24.4	36.6	





#45

t-1,3-Dichloropropene

Concen: 9.41 ppbv

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 75 Resp: 1178378

Ion Ratio Lower Upper

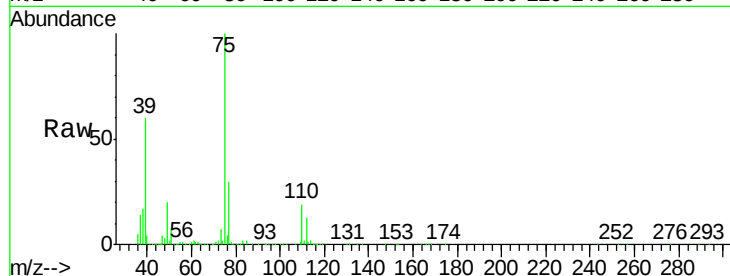
75 100

77 29.9 24.4 36.6

Manual Integrations
APPROVED

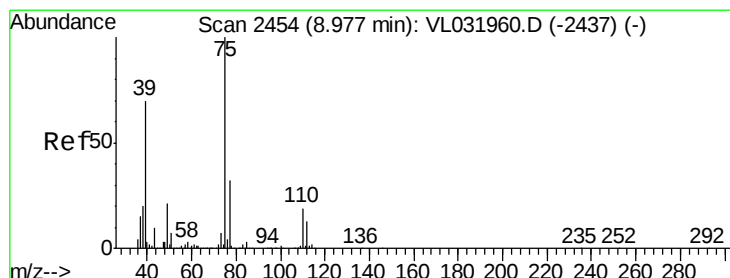
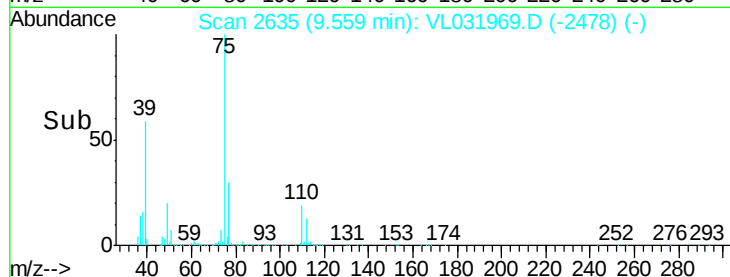
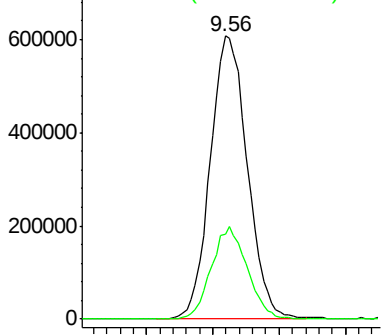
MMDadoda

5/4/2018 5:01:03 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.43 ppbv

RT: 8.98 min Scan# 2455

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

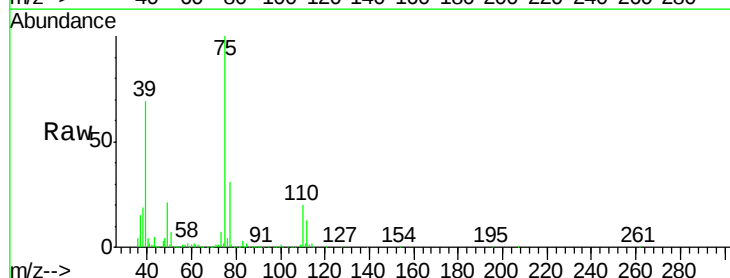
Tgt Ion: 75 Resp: 1457874

Ion Ratio Lower Upper

75 100

39 68.5 55.7 83.5

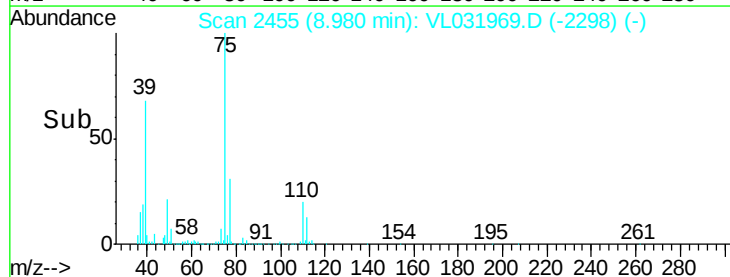
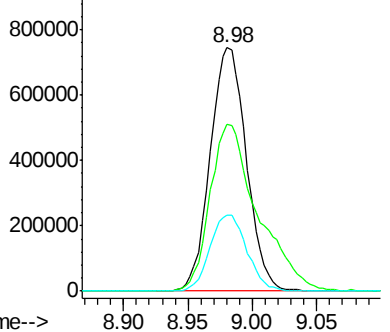
77 31.4 25.9 38.9

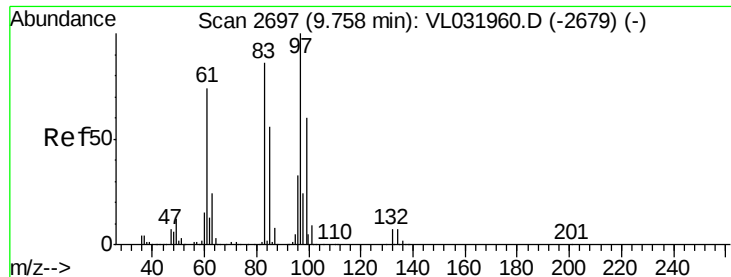


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 8.03 ppbv

RT: 9.76 min Scan# 2699

Delta R.T. 0.01 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 97 Resp: 927082

Ion Ratio Lower Upper

97 100

83 84.4 69.0 103.4

85 57.8 45.0 67.6

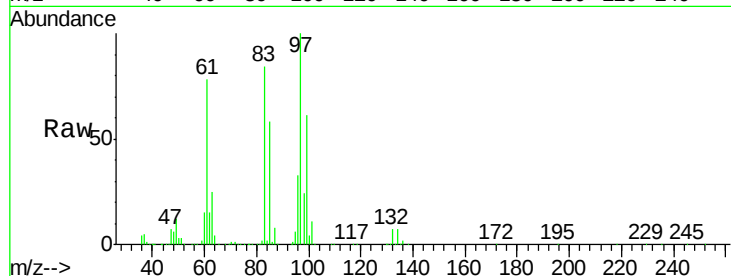
99 61.3 48.0 72.0

Manual Integrations

APPROVED

MMDadoda

5/4/2018 5:01:03 PM

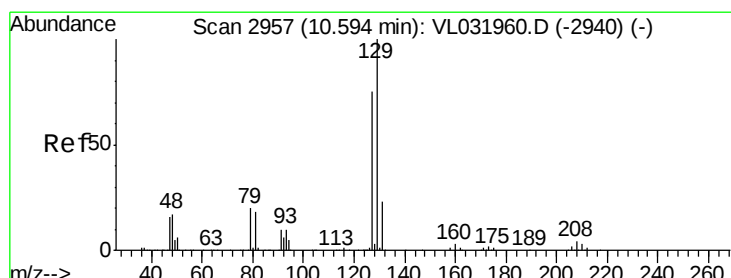
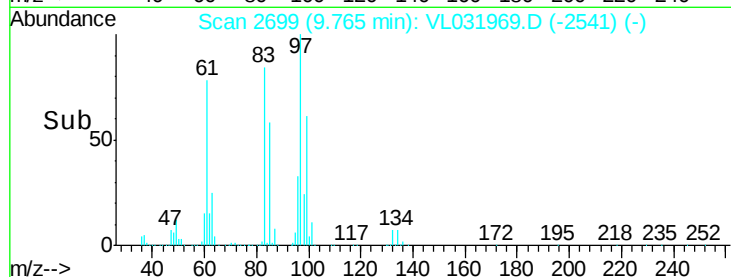
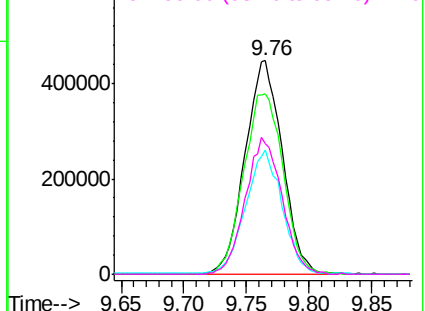


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 8.67 ppbv

RT: 10.60 min Scan# 2960

Delta R.T. 0.01 min

Lab File: VL031969.D

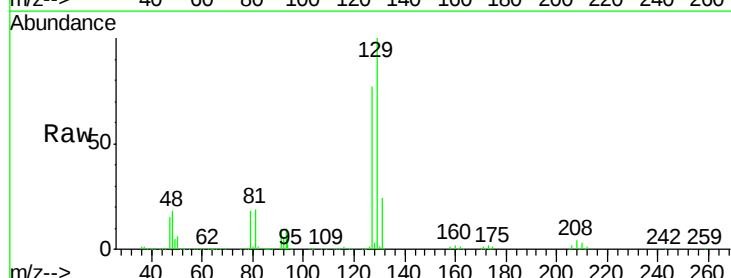
Acq: 3 May 2018 18:34

Tgt Ion: 129 Resp: 1604891

Ion Ratio Lower Upper

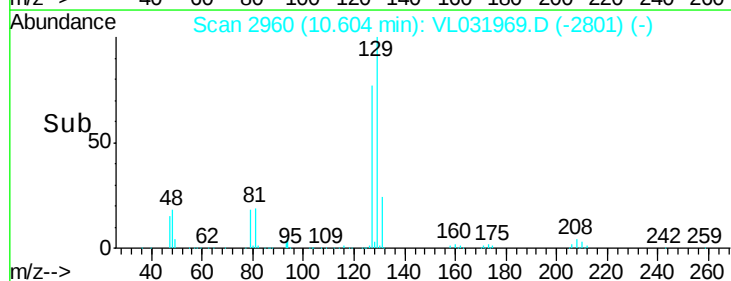
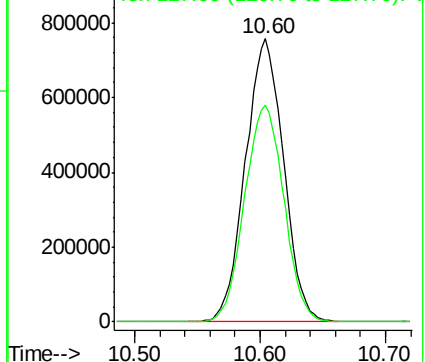
129 100

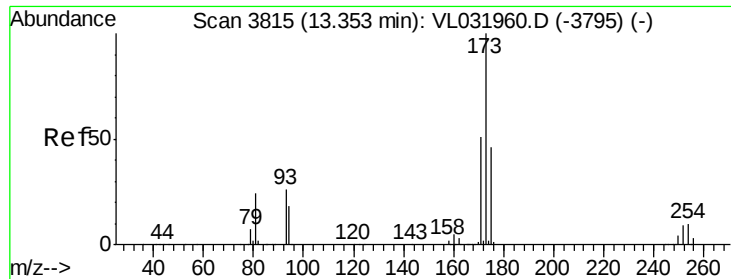
127 78.9 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.75 ppbv

RT: 13.36 min Scan# 3816

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion:173 Resp: 1257519

Ion Ratio Lower Upper

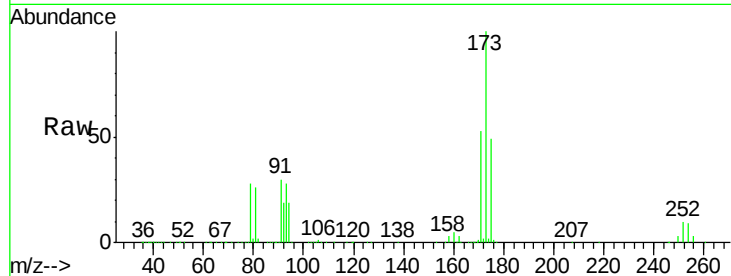
173 100

175 48.9 39.2 58.8

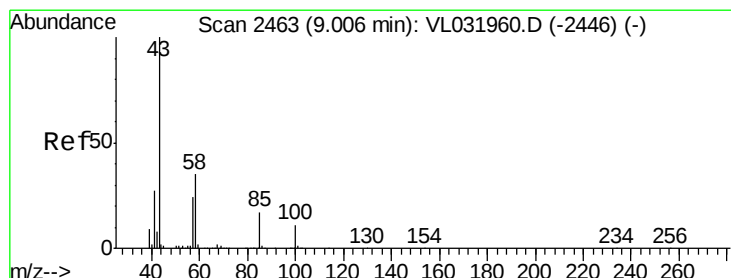
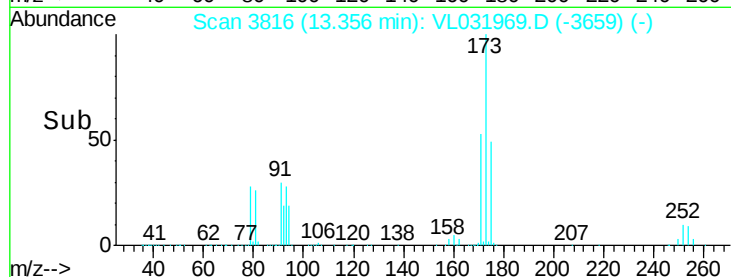
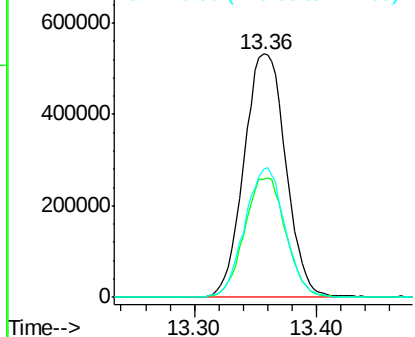
171 51.7 41.5 62.3

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:03 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: 8.51 ppbv

RT: 9.01 min Scan# 2465

Delta R.T. 0.01 min

Lab File: VL031969.D

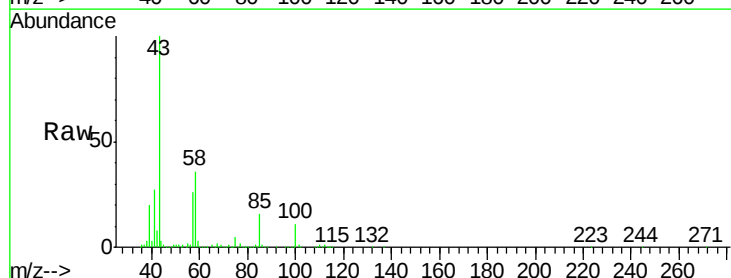
Acq: 3 May 2018 18:34

Tgt Ion: 43 Resp: 1975224

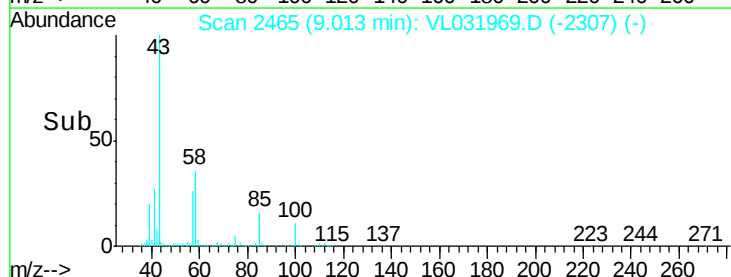
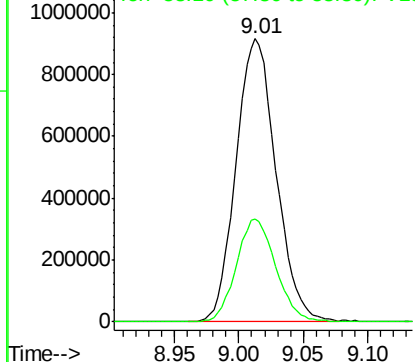
Ion Ratio Lower Upper

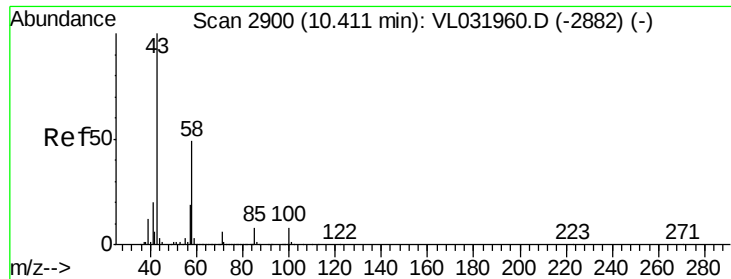
43 100

58 36.0 28.6 42.8



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





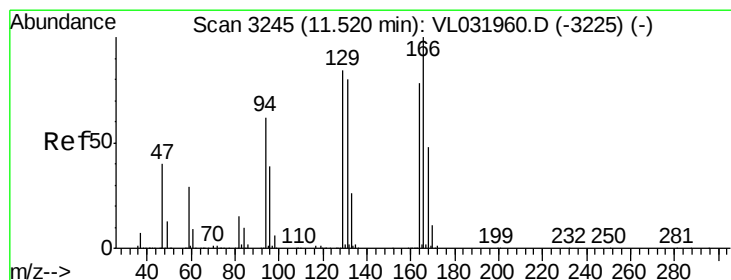
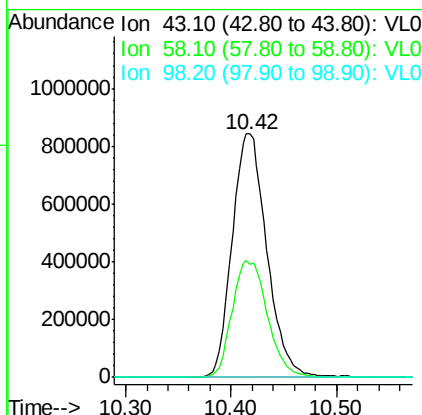
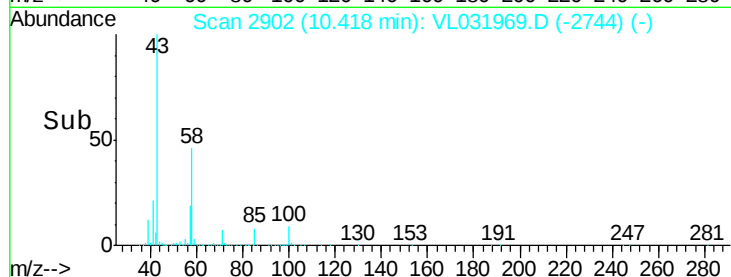
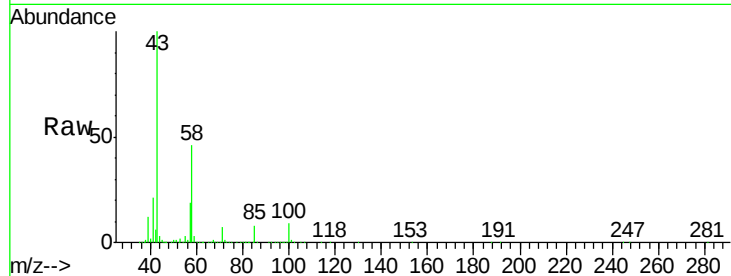
#51
2-Hexanone
Concen: 9.07 ppbv
RT: 10.42 min Scan# 2902
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampled :
VL0503ABS01

Tot Ion: 43 Resp: 1915461
Ion Ratio Lower Upper
43 100
58 48.8 38.6 58.0
98 0.4 0.2 0.2#

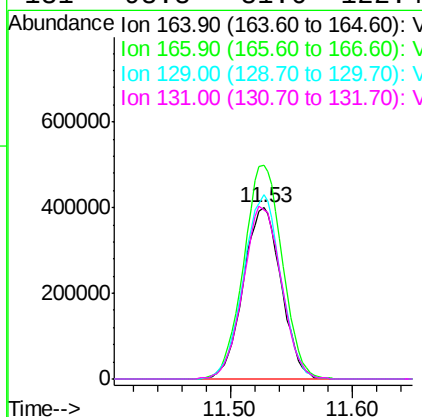
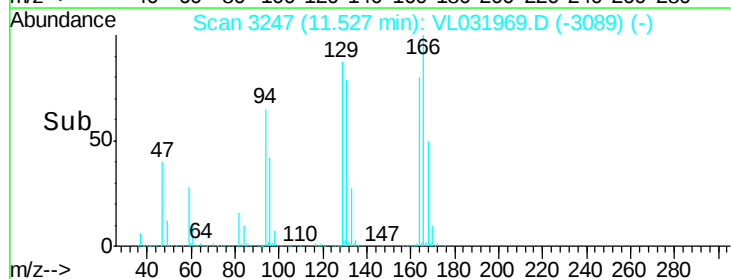
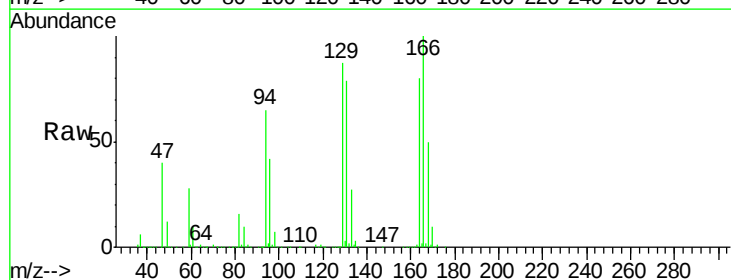
Manual Integrations
APPROVED

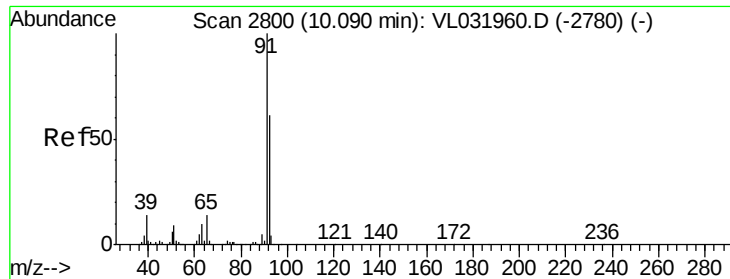
MMDadoda
5/4/2018 5:01:03 PM



#52
Tetrachloroethene
Concen: 8.26 ppbv
RT: 11.53 min Scan# 3247
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion: 164 Resp: 857797
Ion Ratio Lower Upper
164 100
166 124.7 101.9 152.9
129 107.8 85.8 128.6
131 98.8 81.6 122.4





#53

Toluene

Concen: 8.86 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.01 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion: 91 Resp: 2676107

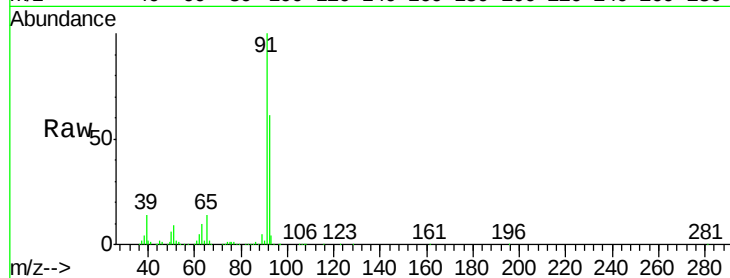
Ion Ratio Lower Upper

91 100

92 60.0 47.4 71.2

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:03 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

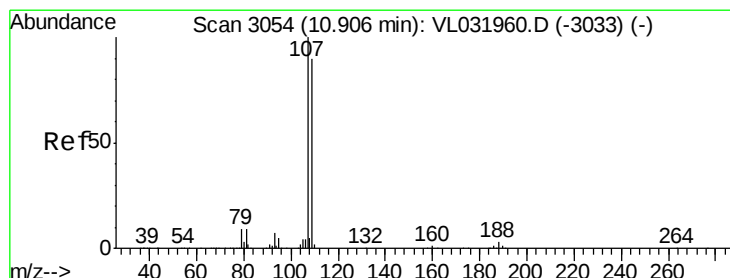
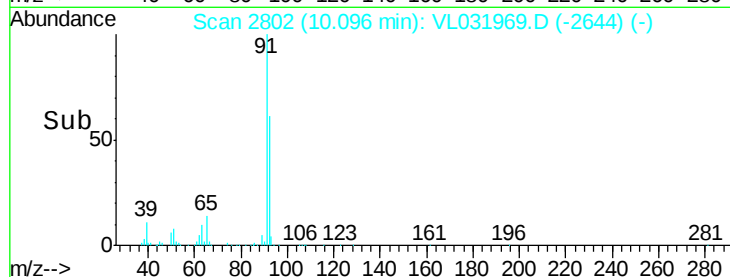
1500000

1000000

500000

0

Time--> 10.00 10.05 10.10 10.15



#54

1,2-Dibromoethane

Concen: 8.51 ppbv

RT: 10.91 min Scan# 3055

Delta R.T. 0.00 min

Lab File: VL031969.D

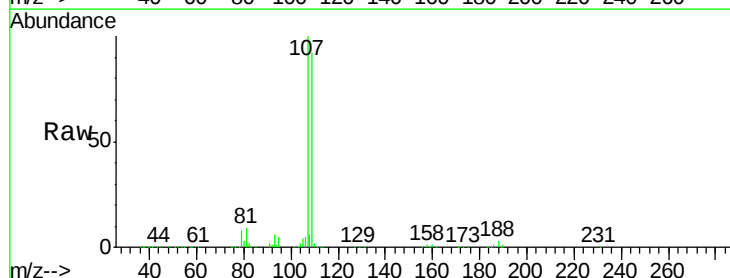
Acq: 3 May 2018 18:34

Tgt Ion: 107 Resp: 1463785

Ion Ratio Lower Upper

107 100

109 92.0 72.1 108.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

800000

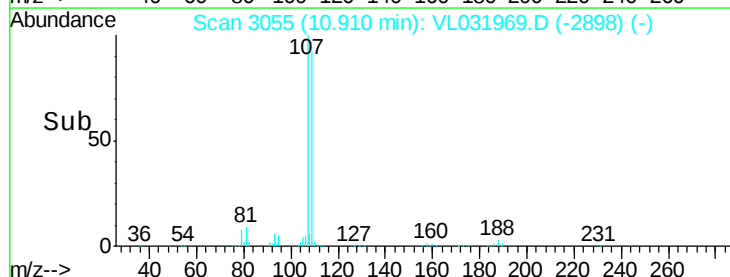
600000

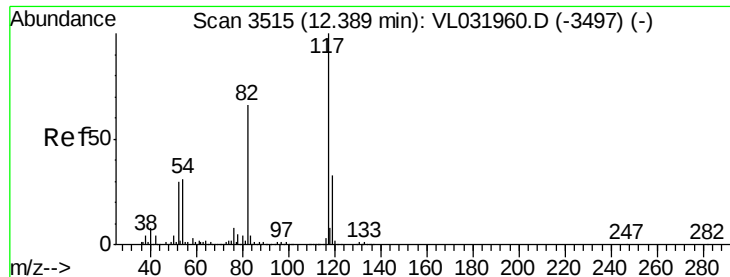
400000

200000

0

Time--> 10.80 10.90 11.00





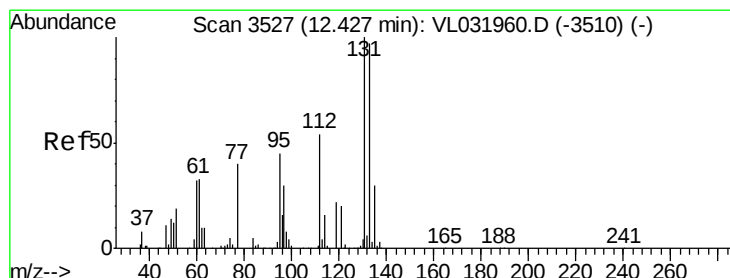
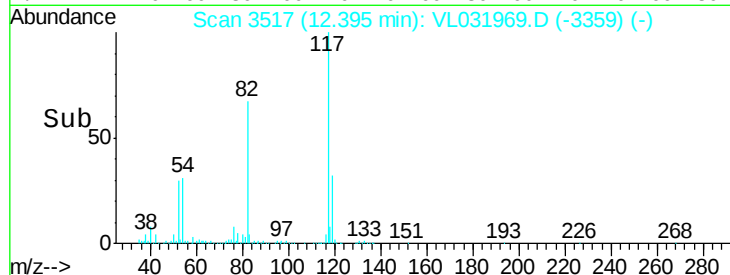
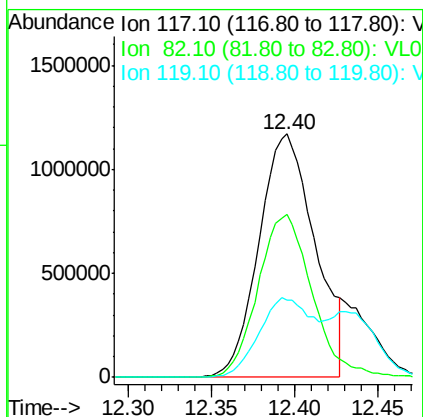
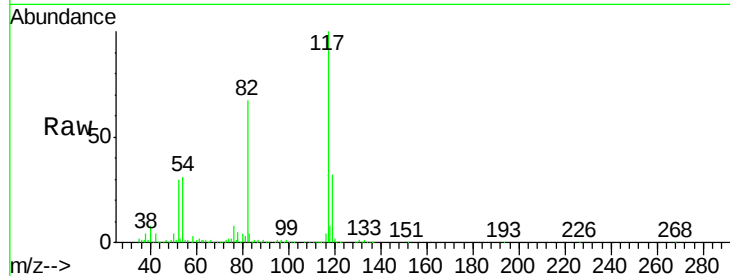
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.40 min Scan# 3517
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion:117 Resp: 2758125
Ion Ratio Lower Upper
117 100
82 64.5 51.6 77.4
119 54.4 44.2 66.4

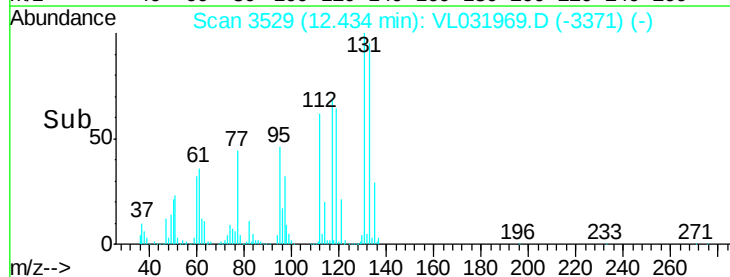
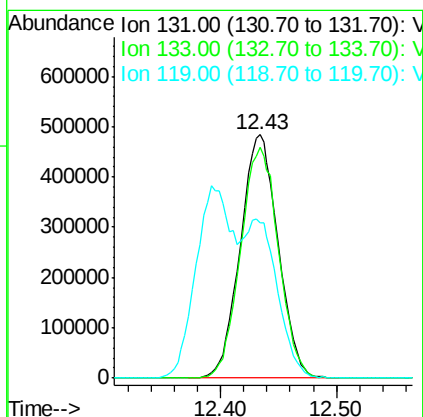
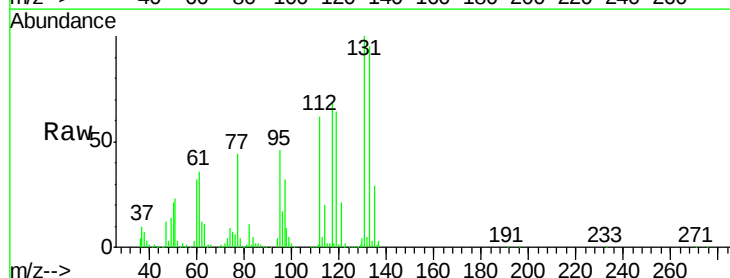
Manual Integrations
APPROVED

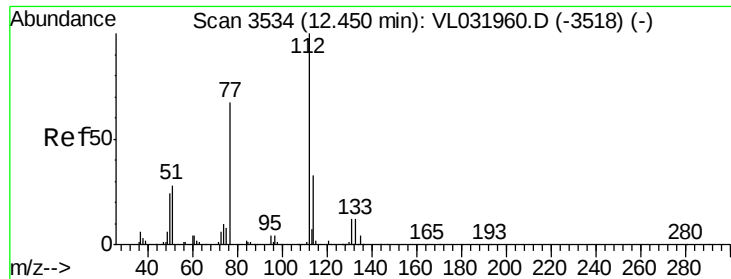
MMDadoda
5/4/2018 5:01:03 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.73 ppbv
RT: 12.43 min Scan# 3529
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion:131 Resp: 1096901
Ion Ratio Lower Upper
131 100
133 95.5 76.2 114.4
119 137.1 44.7 67.1#





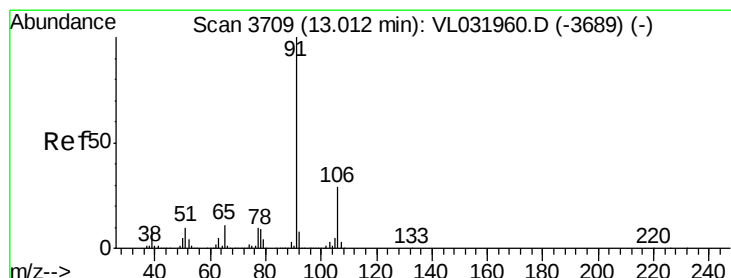
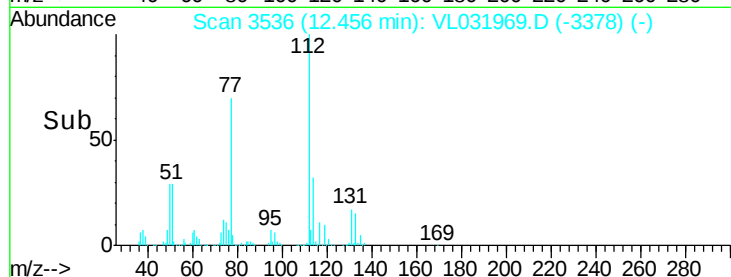
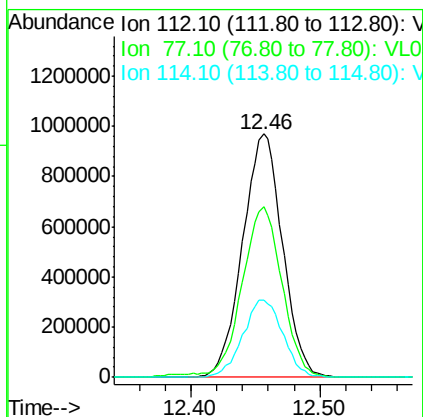
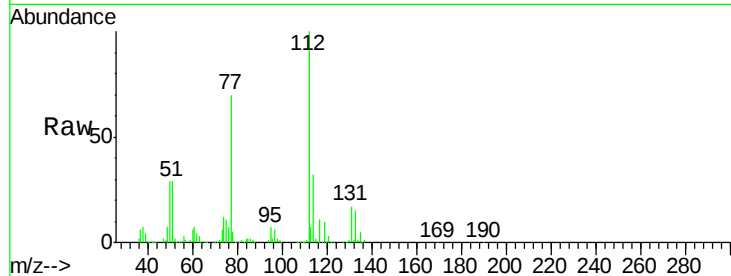
#57
Chlorobenzene
Concen: 8.76 ppbv
RT: 12.46 min Scan# 3536
Delta R.T. 0.01 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.1	54.6	82.0
114	31.8	29.2	35.6

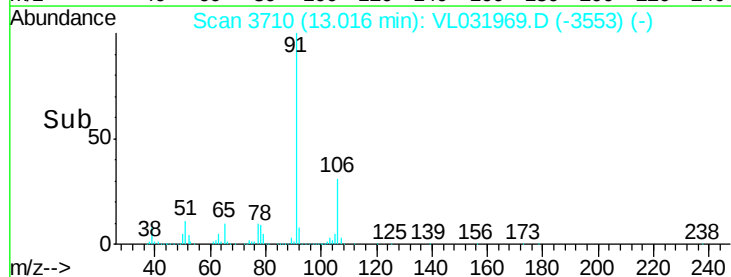
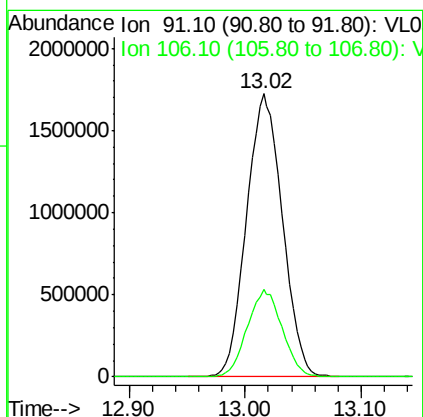
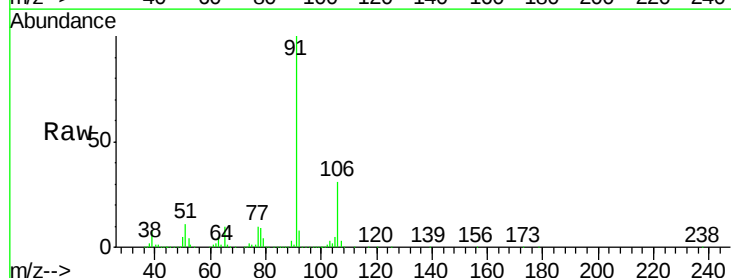
Manual Integrations
APPROVED

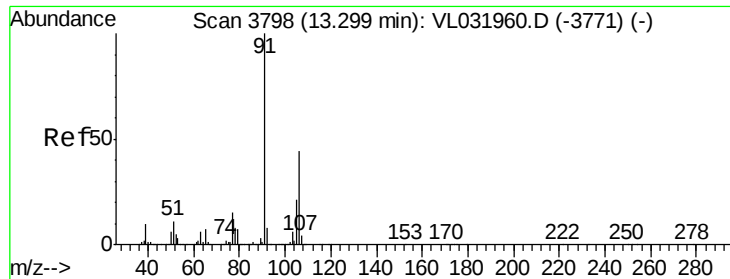
MMDadoda
5/4/2018 5:01:03 PM



#58
Ethyl Benzene
Concen: 9.40 ppbv
RT: 13.02 min Scan# 3710
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.8	23.4	35.2





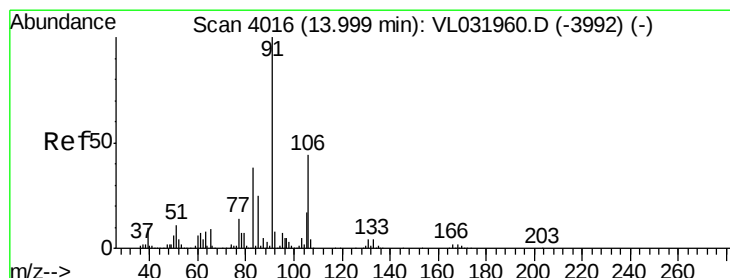
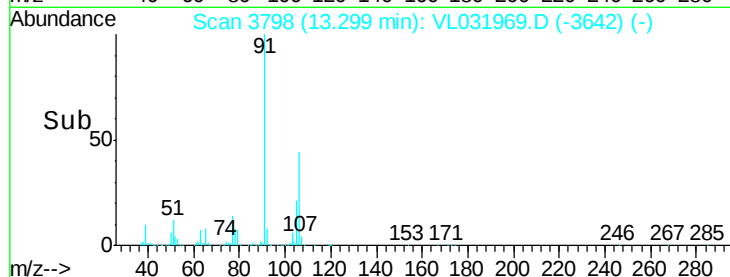
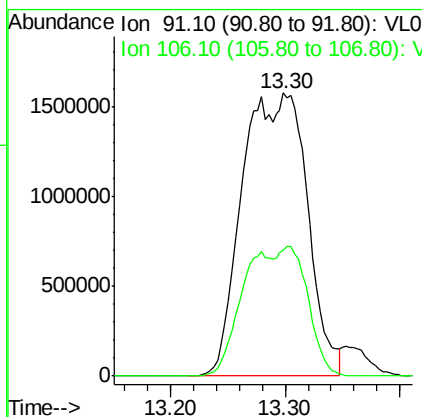
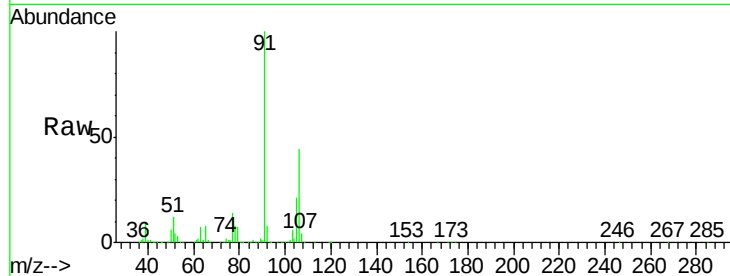
#59
m/p-Xylene
Concen: 18.45 ppbv m
RT: 13.30 min Scan# 3798
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion: 91 Resp: 6180673
Ion Ratio Lower Upper
91 100
106 44.9 35.9 53.9

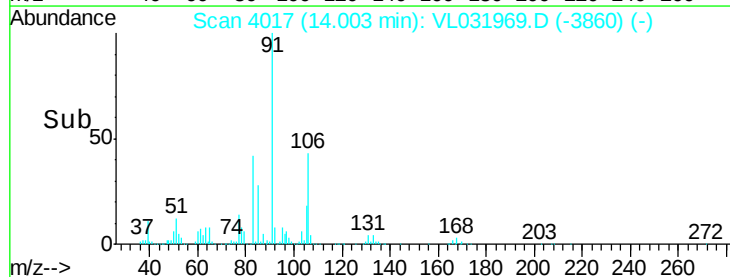
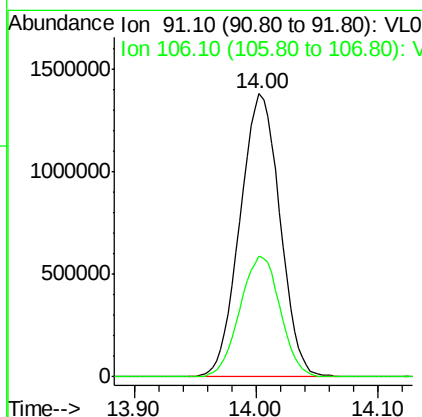
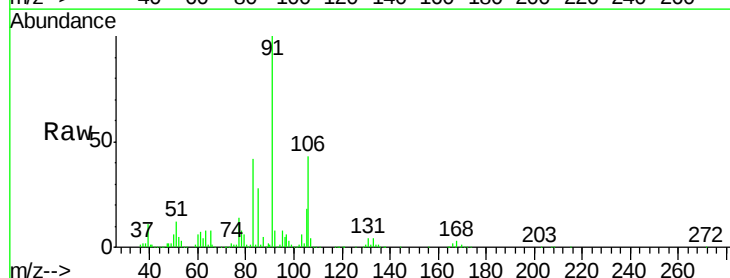
Manual Integrations
APPROVED

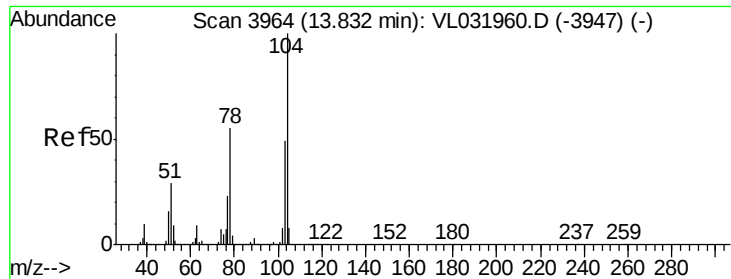
MMDadoda
5/4/2018 5:01:03 PM



#60
o-Xylene
Concen: 9.25 ppbv
RT: 14.00 min Scan# 4017
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion: 91 Resp: 3109387
Ion Ratio Lower Upper
91 100
106 43.3 21.5 64.5





#61

Stvrene

Concen: 10.83 ppbv

RT: 13.84 min Scan# 3965

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

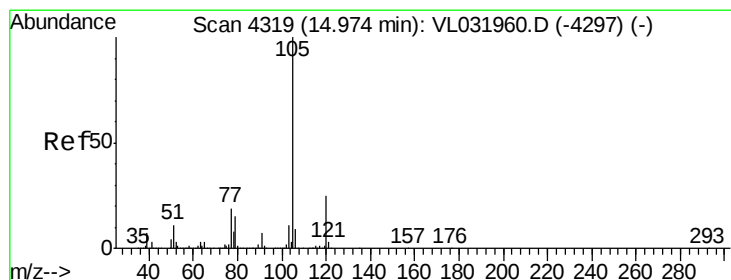
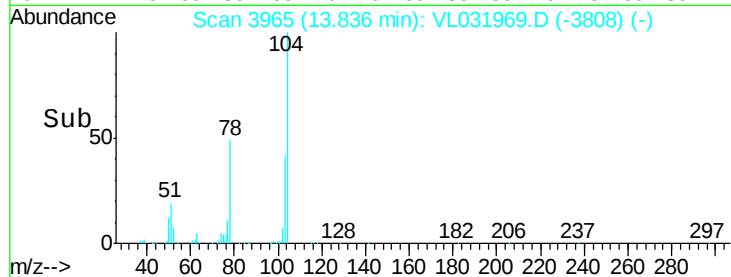
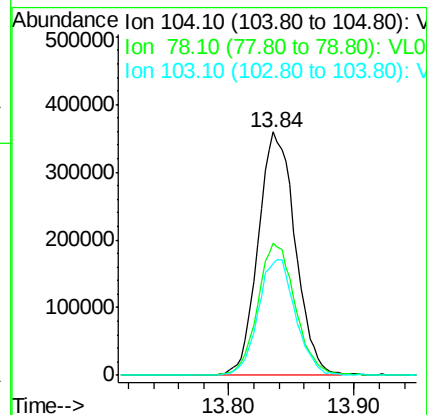
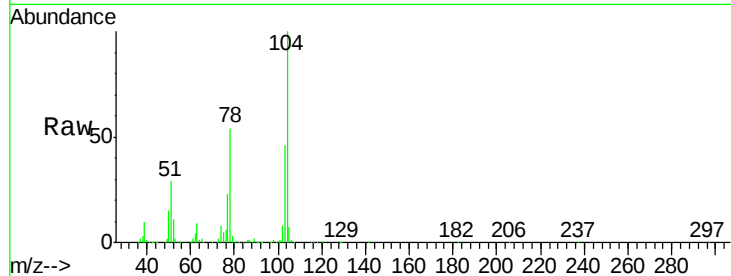
ClientSampleId :

VL0503ABS01

Tot Ion:	104	Resp:	738269
Ion Ratio	Lower	Upper	
104	100		
78	55.2	43.8	65.8
103	48.1	38.4	57.6

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:03 PM



#62

Isopropylbenzene

Concen: 9.10 ppbv

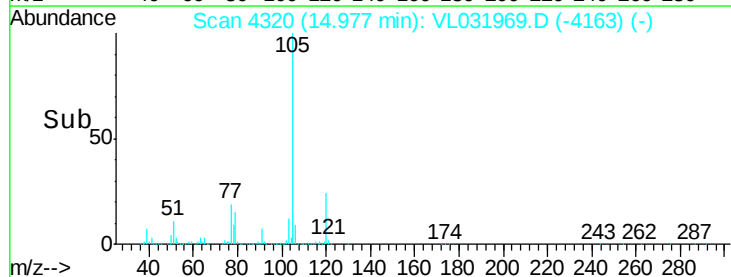
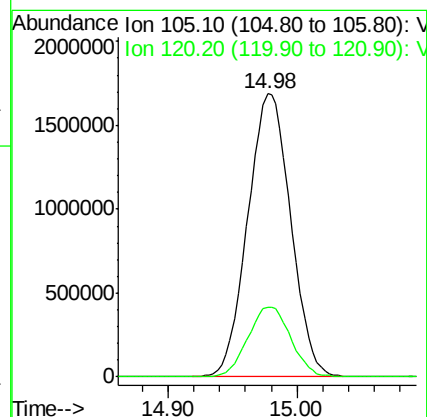
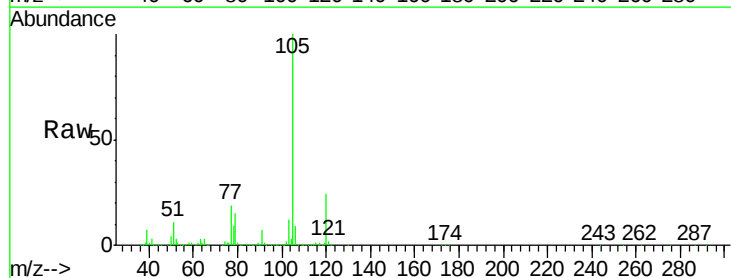
RT: 14.98 min Scan# 4320

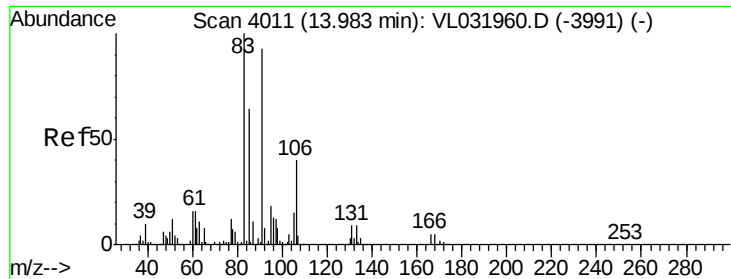
Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Tgt Ion:	105	Resp:	3911106
Ion Ratio	Lower	Upper	
105	100		
120	24.7	19.9	29.9





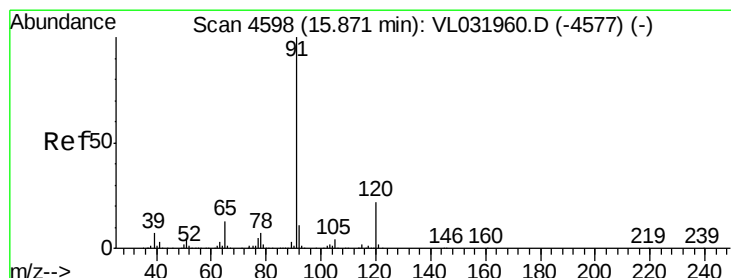
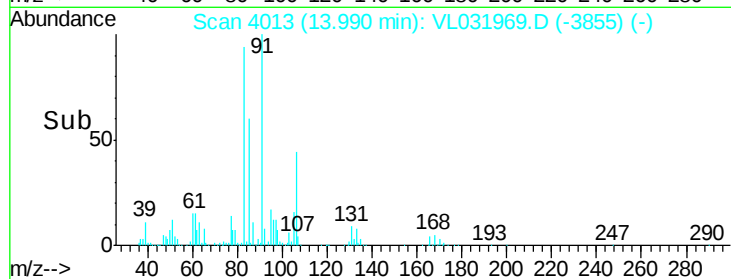
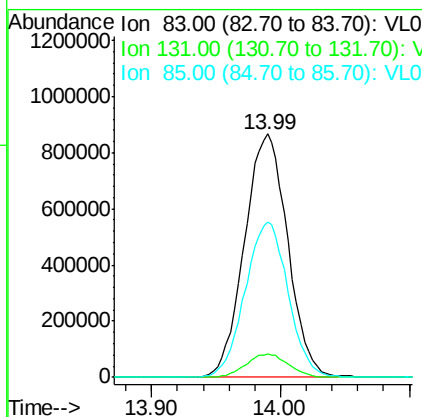
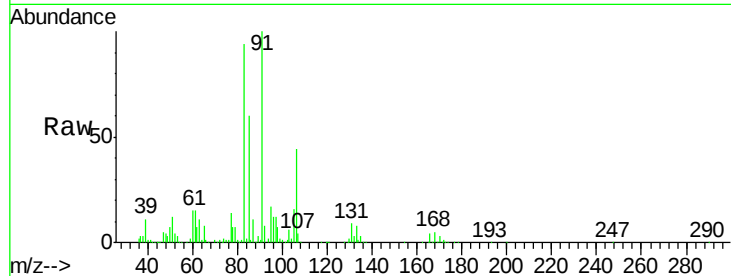
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.45 ppbv
 RT: 13.99 min Scan# 4013
 Delta R.T. 0.01 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion	83	131	85
Resp	2017999	9.6	63.9
Lower		4.9	32.7
Upper		14.7	98.1

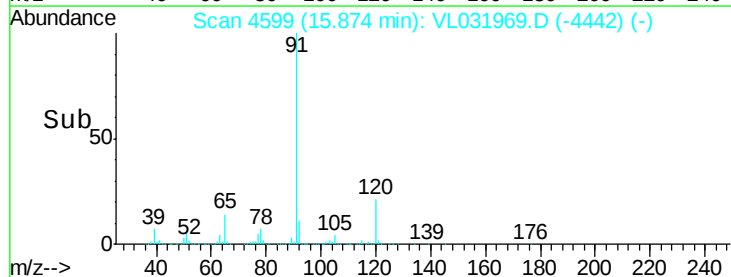
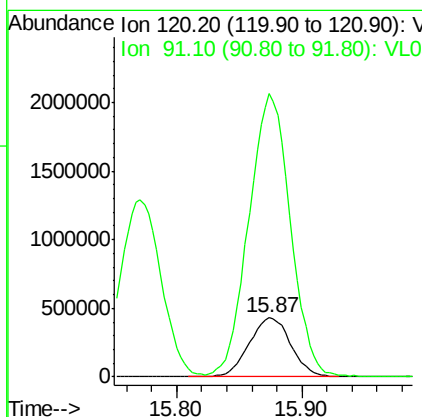
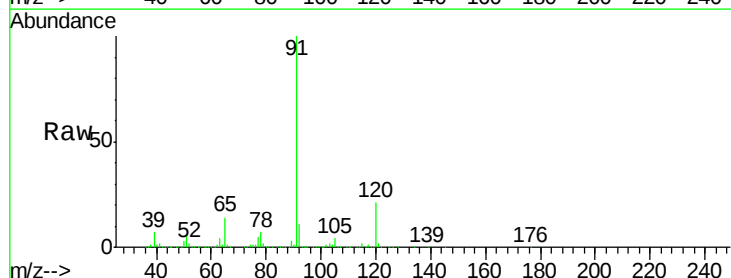
Manual Integrations
 APPROVED

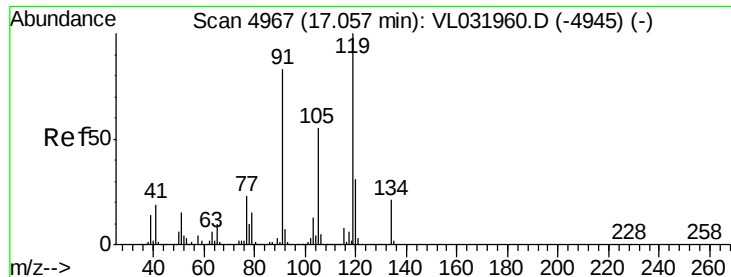
MMDadoda
 5/4/2018 5:01:03 PM



#64
 n-propylbenzene
 Concen: 9.25 ppbv
 RT: 15.87 min Scan# 4599
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion	120	91
Resp	996791	477.9
Lower		388.6
Upper		583.0





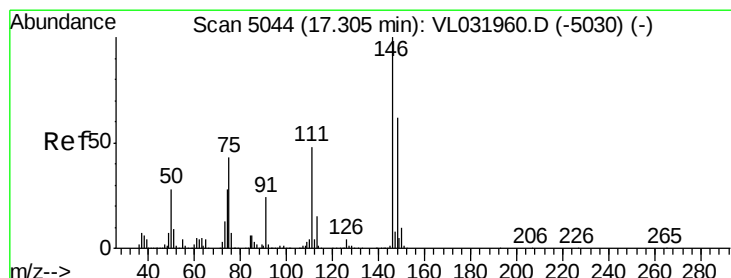
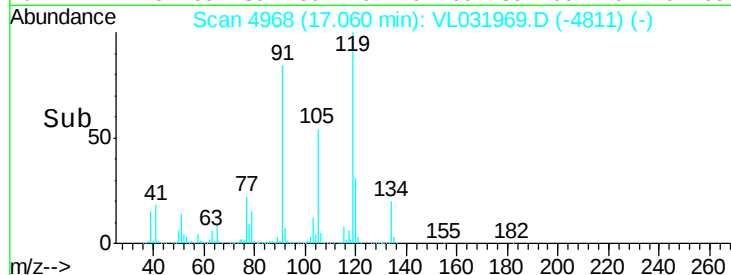
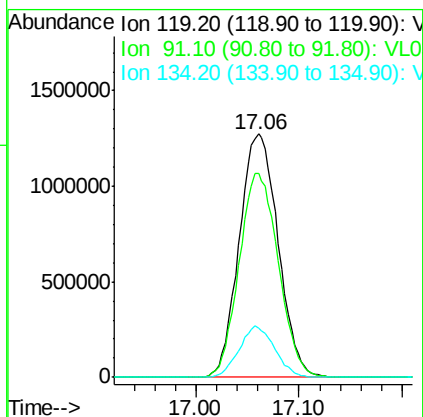
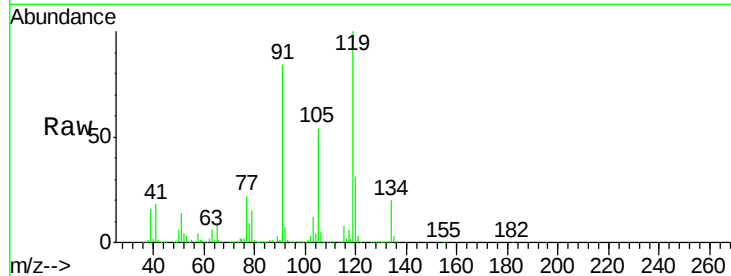
#65
tert-Butylbenzene
Concen: 8.70 ppbv
RT: 17.06 min Scan# 4968
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Instrument :
MSVOA_L
ClientSampleId :
VL0503ABS01

Tot Ion:119 Resp: 3336009
Ion Ratio Lower Upper
119 100
91 84.7 68.1 102.1
134 19.3 15.4 23.0

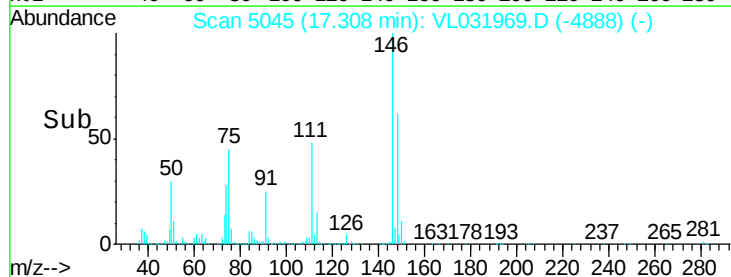
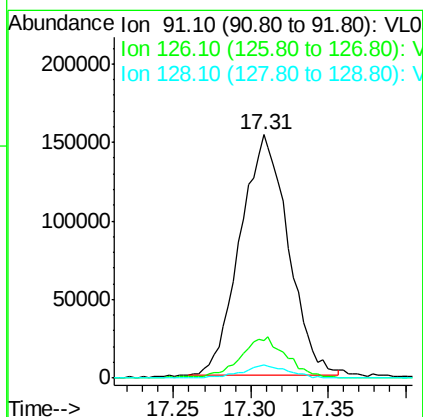
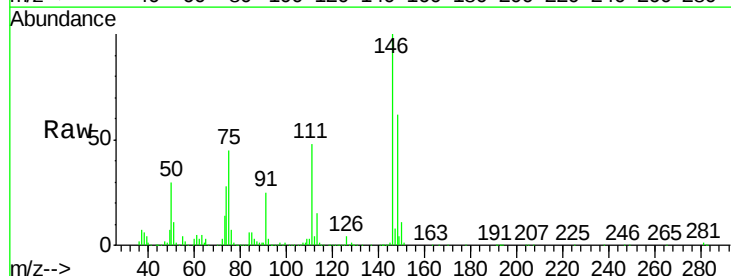
Manual Integrations
APPROVED

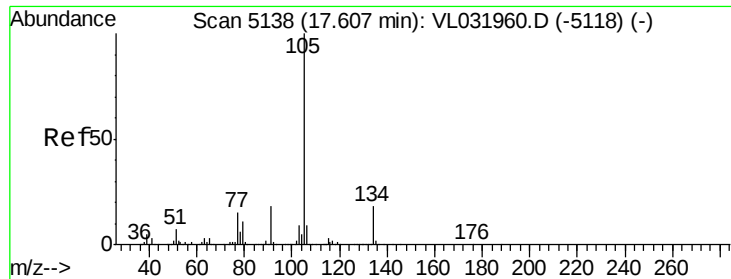
MMDadoda
5/4/2018 5:01:03 PM



#66
Benzyl Chloride
Concen: 9.45 ppbv
RT: 17.31 min Scan# 5045
Delta R.T. 0.00 min
Lab File: VL031969.D
Acq: 3 May 2018 18:34

Tgt Ion: 91 Resp: 329269
Ion Ratio Lower Upper
91 100
126 17.0 13.4 20.0
128 5.3 4.6 6.8





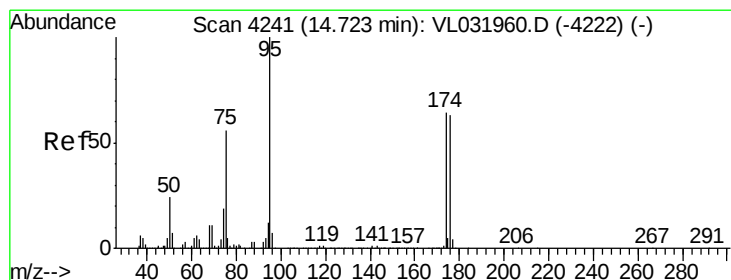
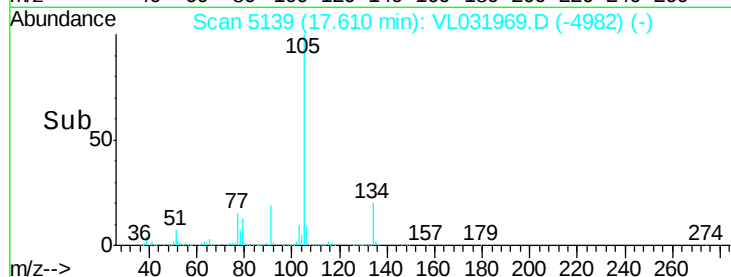
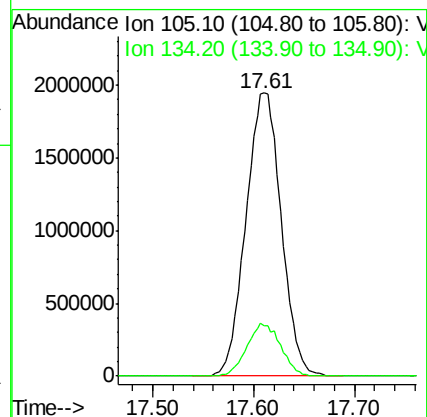
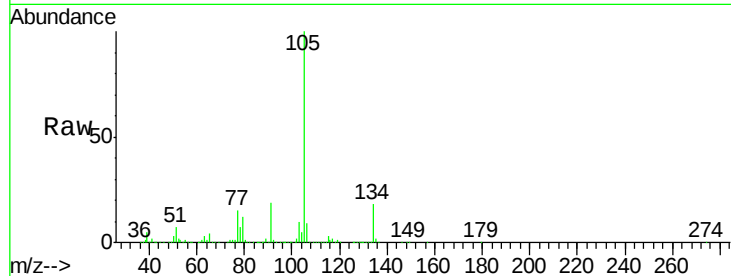
#67
 sec-Butylbenzene
 Concen: 8.86 ppbv
 RT: 17.61 min Scan# 5139
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion: 105 Resp: 4714286
 Ion Ratio Lower Upper
 105 100
 134 17.9 14.2 21.4

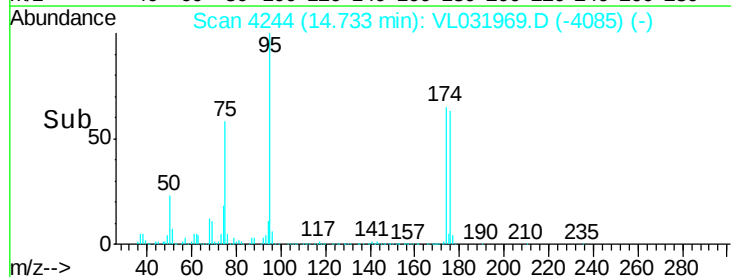
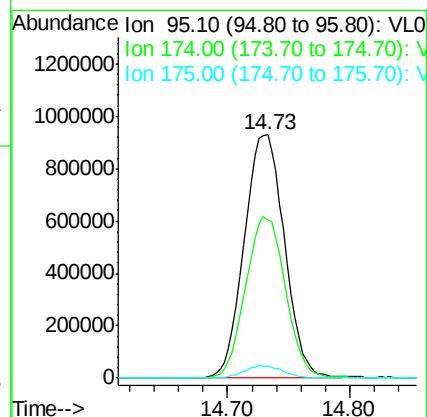
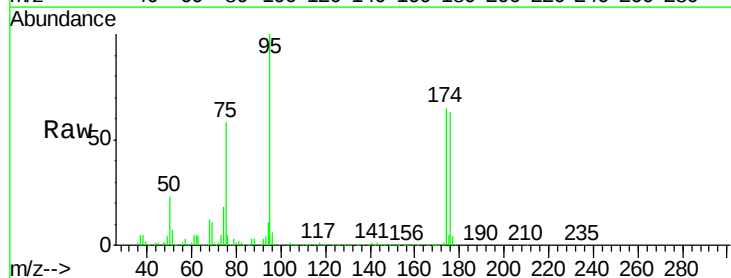
Manual Integrations
 APPROVED

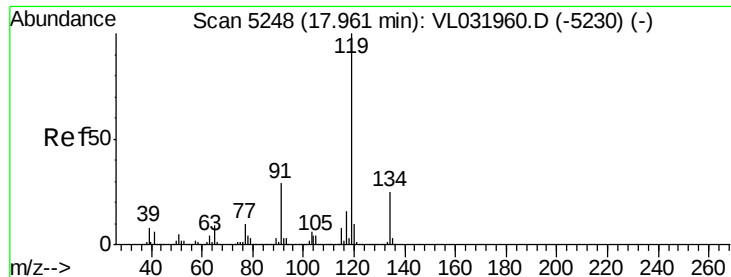
MMDadoda
 5/4/2018 5:01:03 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.88 ppbv
 RT: 14.73 min Scan# 4244
 Delta R.T. 0.01 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion: 95 Resp: 2113581
 Ion Ratio Lower Upper
 95 100
 174 66.2 53.0 79.6
 175 5.0 3.9 5.9





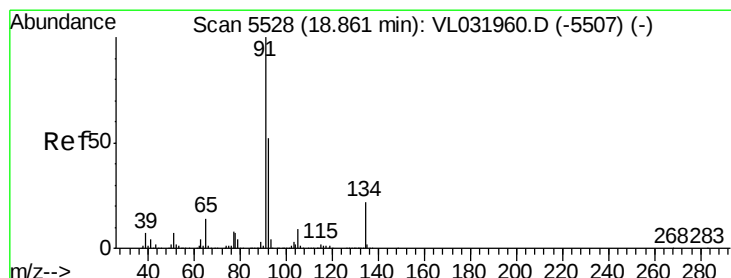
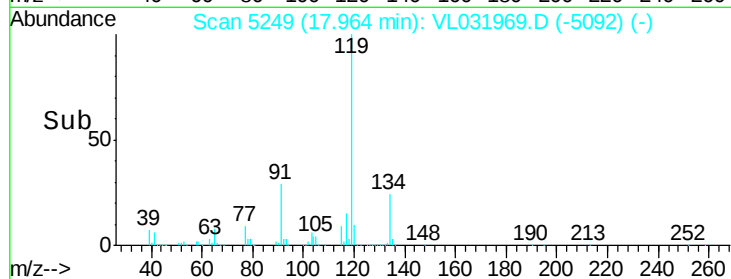
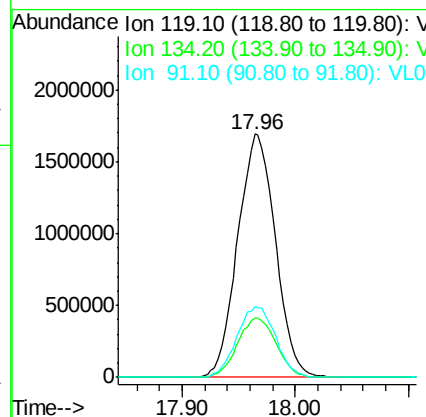
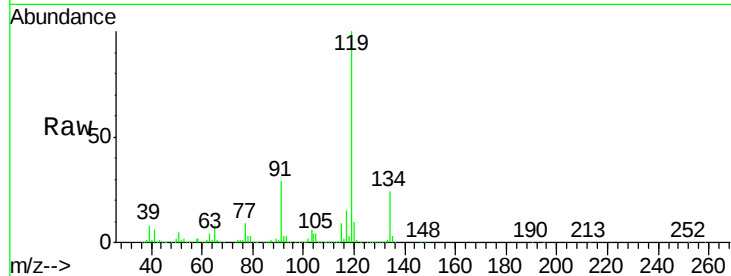
#69
 p-Isopropyltoluene
 Concen: 9.15 ppbv
 RT: 17.96 min Scan# 5249
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	19.8	29.8
91	30.1	23.8	35.6

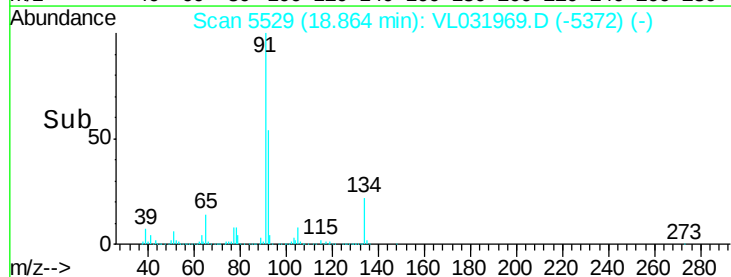
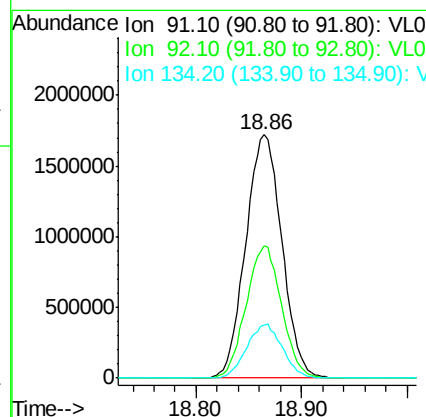
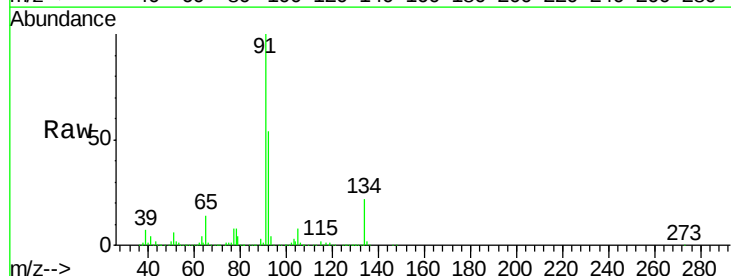
Manual Integrations
 APPROVED

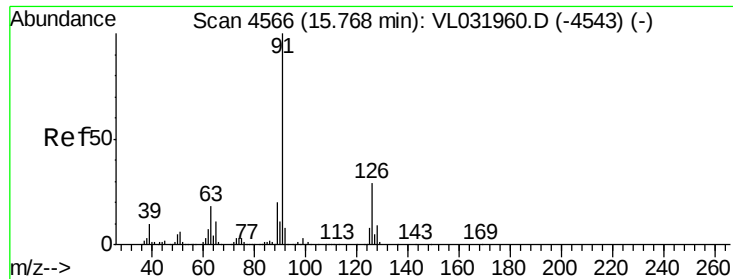
MMDadoda
 5/4/2018 5:01:03 PM



#70
 n-Butylbenzene
 Concen: 9.30 ppbv
 RT: 18.86 min Scan# 5529
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	41.8	62.8
134	21.7	17.6	26.4





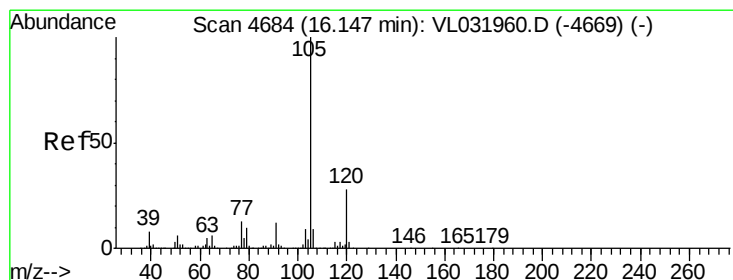
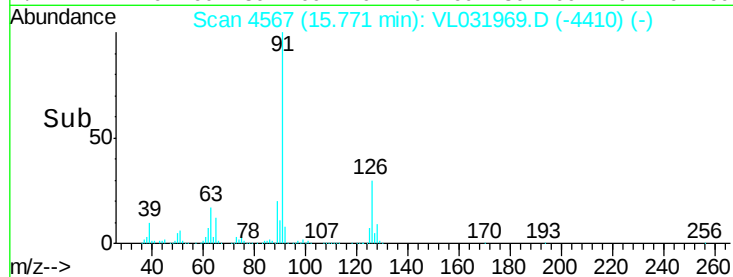
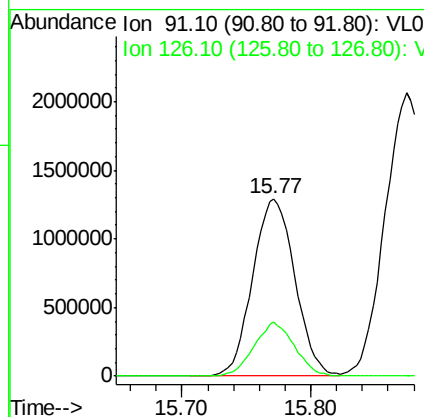
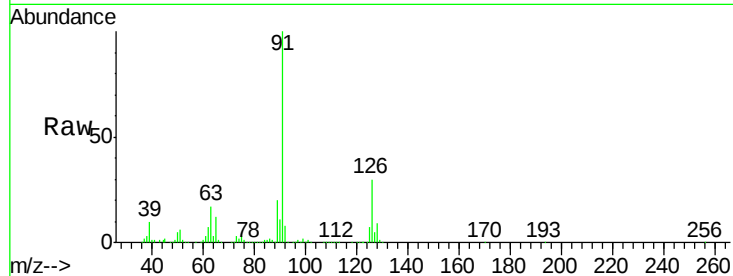
#71
 2-Chlorotoluene
 Concen: 9.39 ppbv
 RT: 15.77 min Scan# 4567
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion: 91 Resp: 2953594
 Ion Ratio Lower Upper
 91 100
 126 29.1 11.8 47.2

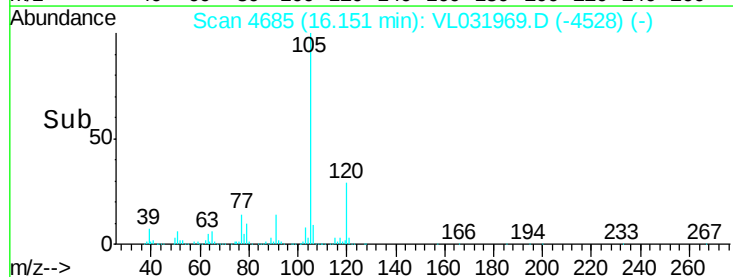
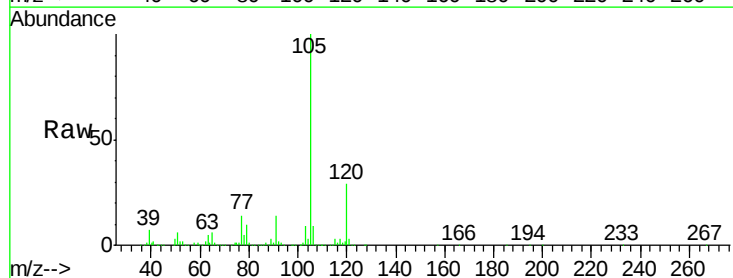
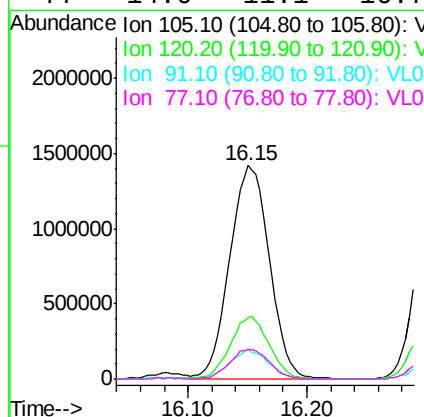
Manual Integrations
 APPROVED

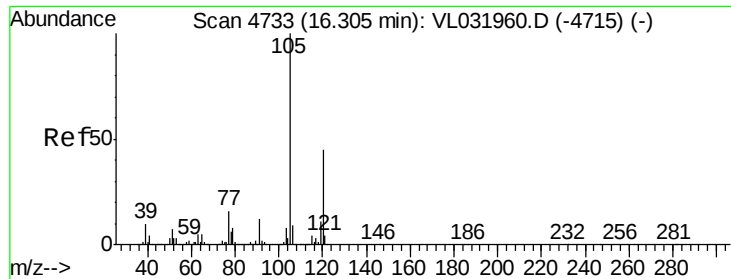
MMDadoda
 5/4/2018 5:01:03 PM



#72
 4-Ethyltoluene
 Concen: 9.58 ppbv
 RT: 16.15 min Scan# 4685
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion: 105 Resp: 3269253
 Ion Ratio Lower Upper
 105 100
 120 28.8 22.6 33.8
 91 13.2 10.5 15.7
 77 14.0 11.1 16.7





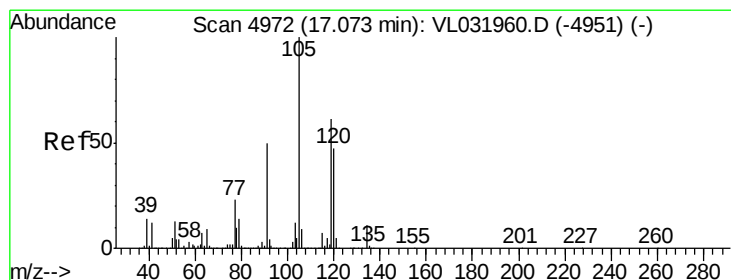
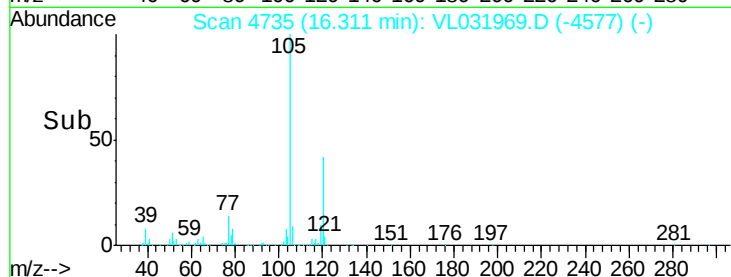
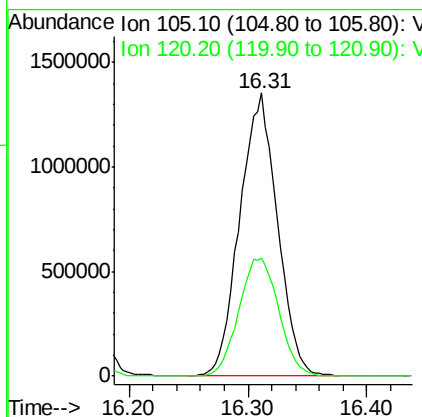
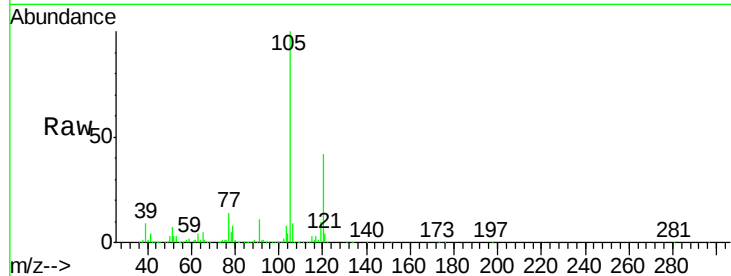
#73
 1,3,5-Trimethylbenzene
 Concen: 9.35 ppbv
 RT: 16.31 min Scan# 4735
 Delta R.T. 0.01 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion:105 Resp: 2950025
 Ion Ratio Lower Upper
 105 100
 120 41.9 36.0 54.0

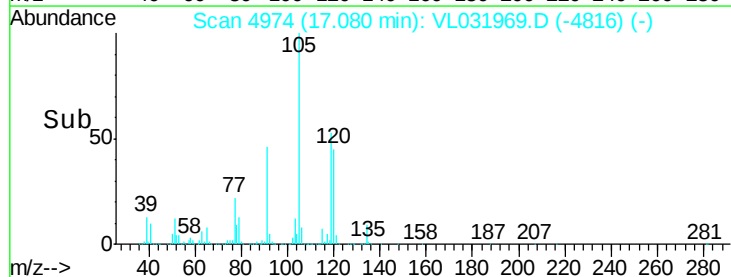
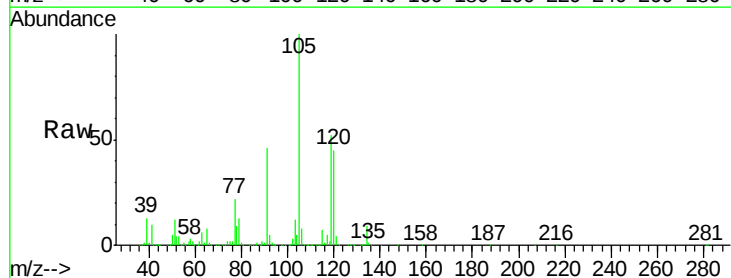
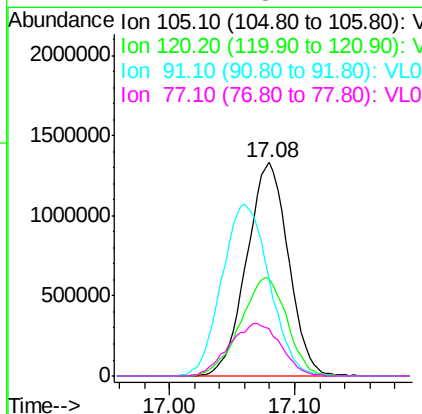
Manual Integrations
 APPROVED

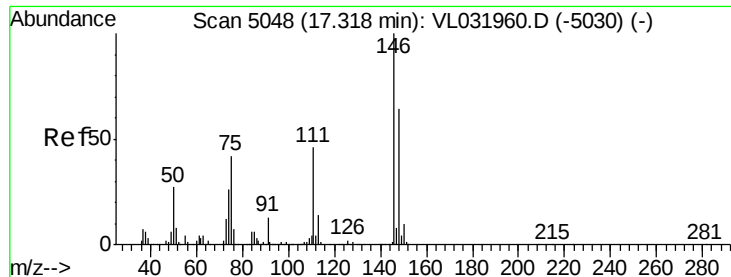
MMDadoda
 5/4/2018 5:01:03 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.82 ppbv
 RT: 17.08 min Scan# 4974
 Delta R.T. 0.01 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion:105 Resp: 3080126
 Ion Ratio Lower Upper
 105 100
 120 45.1 37.8 56.6
 91 45.7 40.5 60.7
 77 22.1 18.2 27.2





#75

1,3-Dichlorobenzene

Concen: 8.96 ppbv

RT: 17.32 min Scan# 5049

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion:146 Resp: 1930296

Ion Ratio Lower Upper

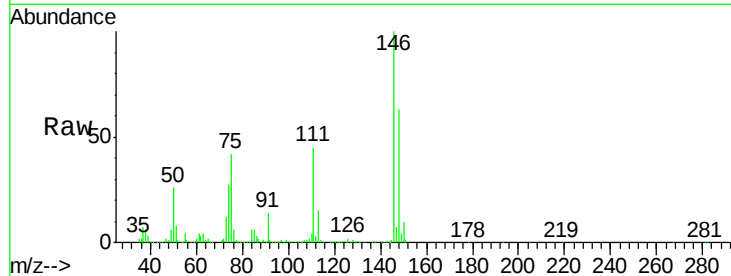
146 100

111 46.7 23.5 70.5

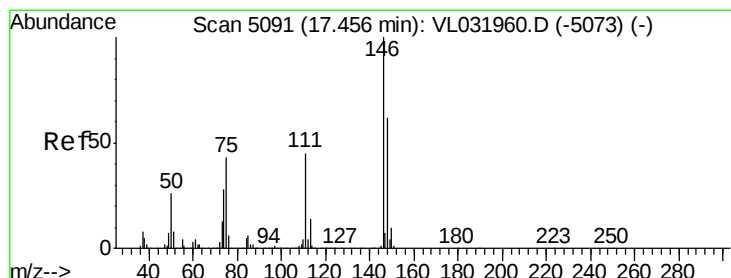
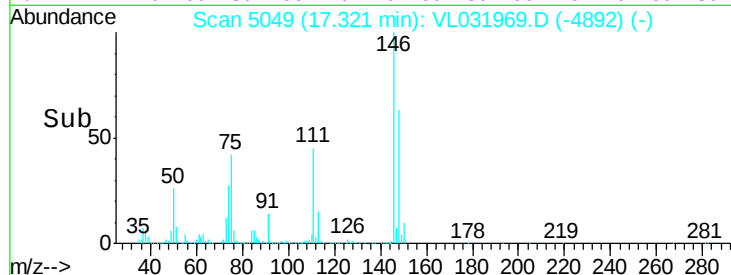
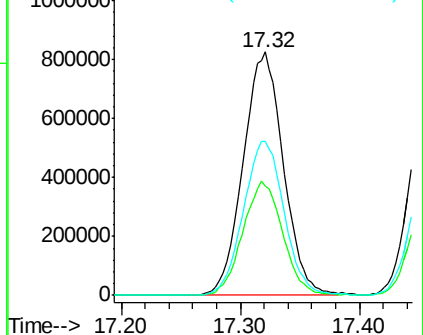
148 64.1 32.3 96.8

Manual Integrations
APPROVED

MMDadoda
5/4/2018 5:01:03 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: 9.16 ppbv

RT: 17.46 min Scan# 5093

Delta R.T. 0.01 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

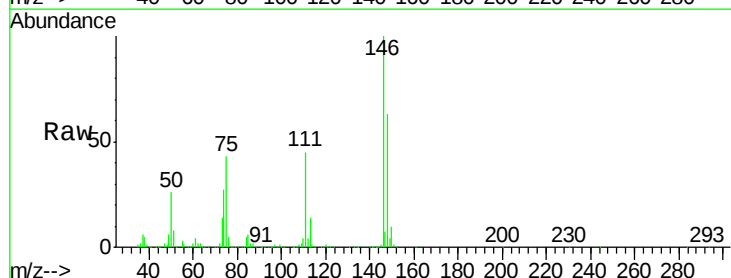
Tgt Ion:146 Resp: 1952575

Ion Ratio Lower Upper

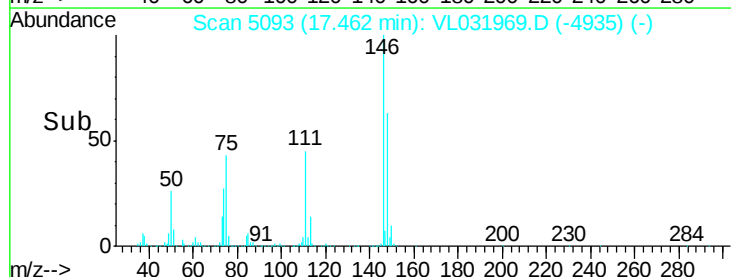
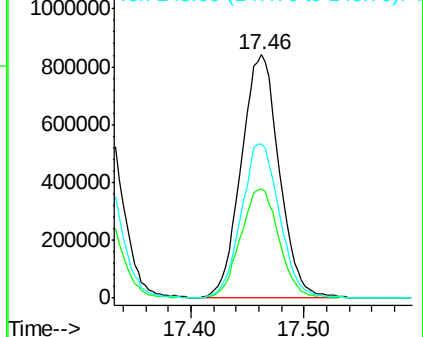
146 100

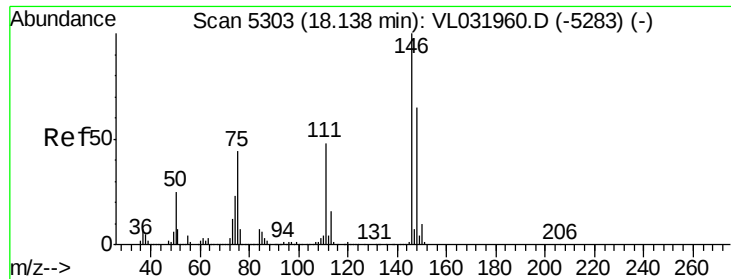
111 45.7 23.0 69.0

148 64.4 32.4 97.2



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





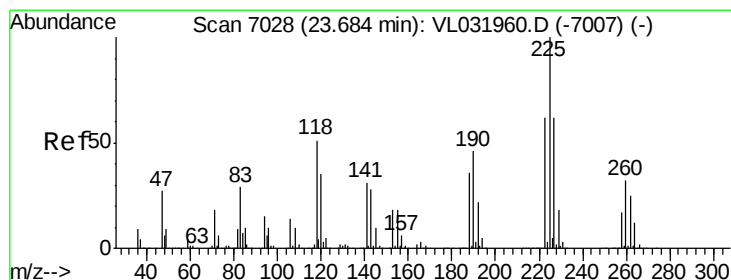
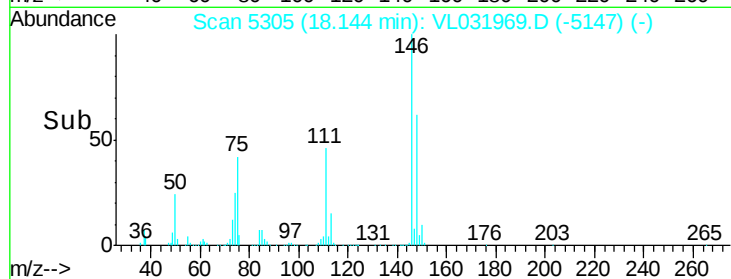
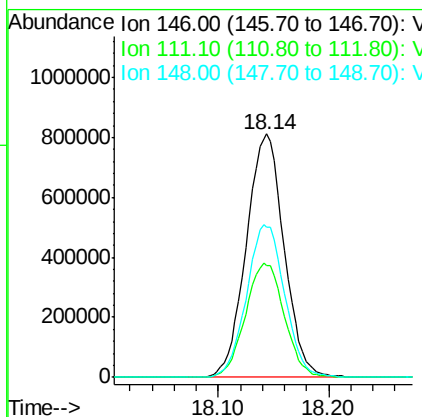
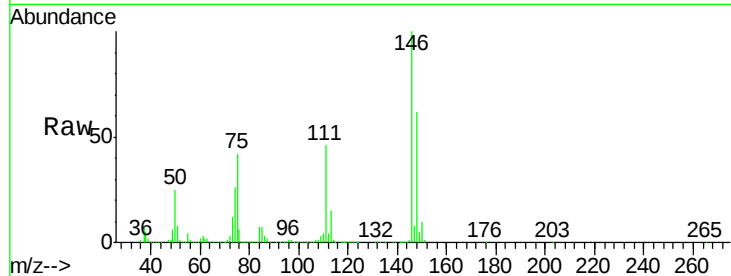
#77
 1,2-Dichlorobenzene
 Concen: 8.88 ppbv
 RT: 18.14 min Scan# 5305
 Delta R.T. 0.01 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion:146 Resp: 1926510
 Ion Ratio Lower Upper
 146 100
 111 48.3 24.2 72.6
 148 63.3 32.0 96.2

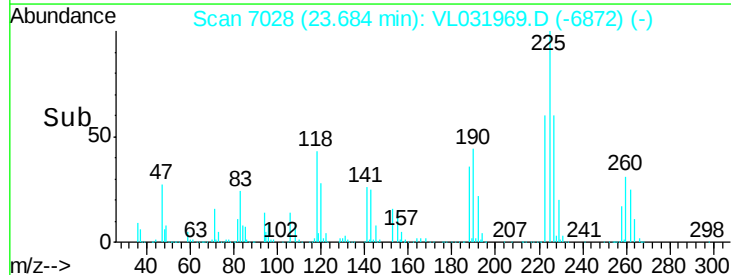
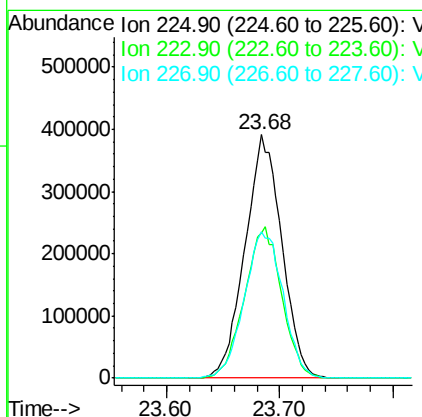
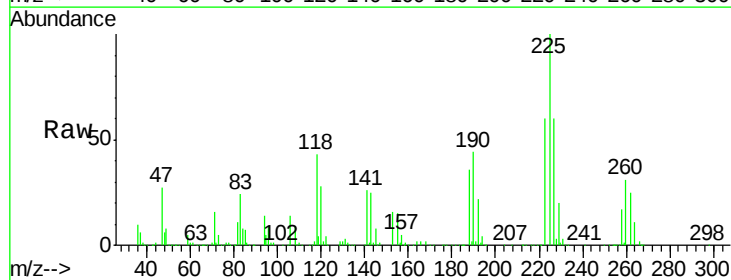
Manual Integrations
 APPROVED

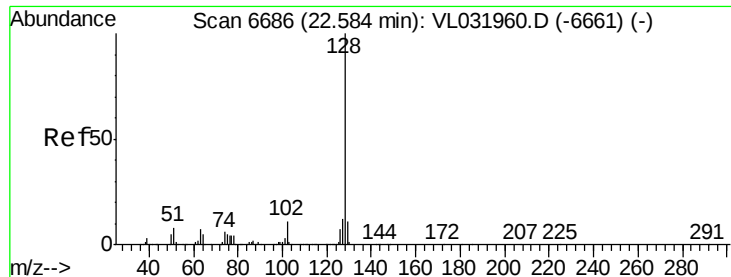
MMDadoda
 5/4/2018 5:01:03 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.96 ppbv
 RT: 23.68 min Scan# 7028
 Delta R.T. 0.00 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Tgt Ion:225 Resp: 883197
 Ion Ratio Lower Upper
 225 100
 223 63.1 50.8 76.2
 227 63.4 50.9 76.3





#79

Naphthalene

Concen: 14.31 ppbv

RT: 22.59 min Scan# 6687

Delta R.T. 0.00 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

Instrument :

MSVOA_L

ClientSampleId :

VL0503ABS01

Tot Ion:128 Resp: 3479906

Ion Ratio Lower Upper

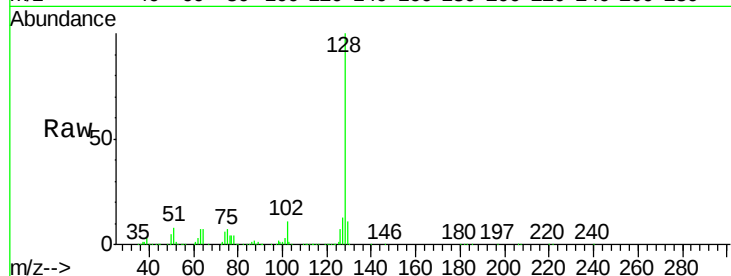
128 100

127 13.1 10.0 15.0

129 11.1 9.0 13.4

Manual Integrations
APPROVED

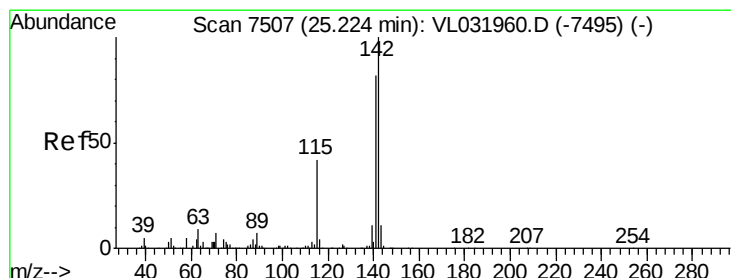
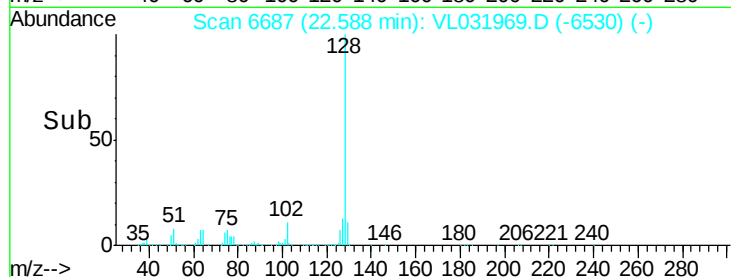
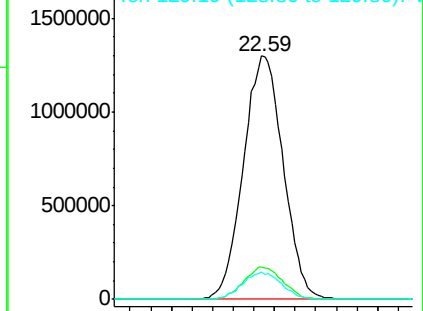
MMDadoda
5/4/2018 5:01:03 PM



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: 26.43 ppbv

RT: 25.23 min Scan# 7509

Delta R.T. 0.01 min

Lab File: VL031969.D

Acq: 3 May 2018 18:34

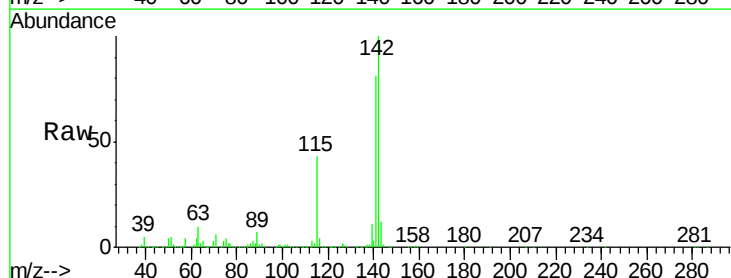
Tgt Ion:142 Resp: 1532356

Ion Ratio Lower Upper

142 100

141 83.5 67.9 101.9

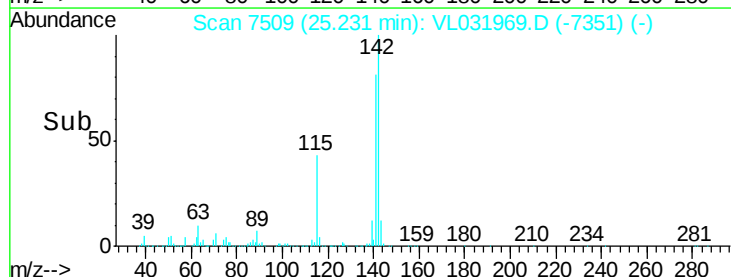
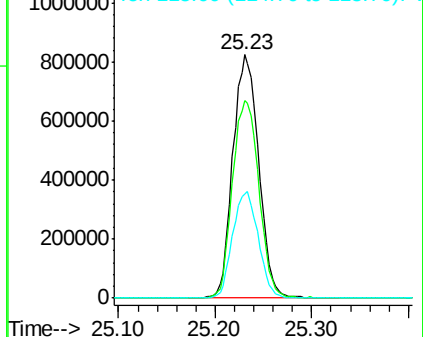
115 43.4 33.8 50.8

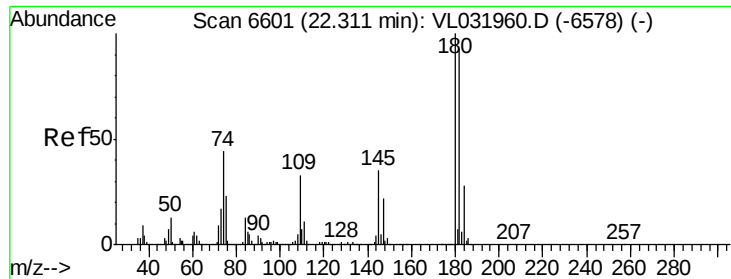


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





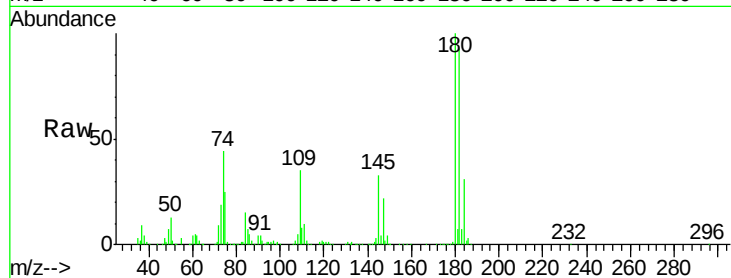
#81
 1,2,4-Trichlorobenzene
 Concen: 12.58 ppbv
 RT: 22.32 min Scan# 6603
 Delta R.T. 0.01 min
 Lab File: VL031969.D
 Acq: 3 May 2018 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.6	114.8
184	30.1	24.0	36.0

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:03 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

