

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032357.D
 Acq On : 15 Aug 2018 18:29
 Operator : SY/AP
 Sample : VL0815ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:39 PM

Quant Time: Aug 16 06:40:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 16 06:40:06 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2443058	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	4799466	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4921874m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3718364	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	2249766	11.54	ppbv	98
3) Chlorodifluoromethane	3.05	51	2036675	9.00	ppbv	100
4) Chloromethane	3.21	50	1236939	9.18	ppbv	99
5) Vinyl Chloride	3.33	62	1122578	8.74	ppbv	95
6) Bromomethane	3.56	94	631861	9.18	ppbv	96
7) Chloroethane	3.64	64	411338	9.14	ppbv	98
8) Dichlorotetrafluoroethane	3.26	85	2377654	8.61	ppbv	100
9) Propene	3.07	41	956502	9.88	ppbv	99
10) Heptane	8.31	43	2873664	9.85	ppbv	99
11) Trichlorofluoromethane	4.05	101	2250936	8.24	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1585089	8.61	ppbv	99
13) Ethanol	3.69	45	251078	10.09	ppbv	97
14) Bromoethene	3.83	108	713309	8.96	ppbv	99
15) Acetone	3.95	43	1755428	7.56	ppbv	100
16) 1,3-Butadiene	3.40	39	967185	10.09	ppbv	86
17) tert-Butyl alcohol	4.41	59	343854	8.83	ppbv	100
18) 1,1-Dichloroethene	4.40	96	770615	8.99	ppbv	99
19) Isopropyl Alcohol	4.06	45	1378032	8.82	ppbv #	98
20) Methylene Chloride	4.46	84	685130	7.82	ppbv	94
21) Allyl Chloride	4.53	41	1361053	9.29	ppbv	100
22) trans-1,2-Dichloroethene	5.02	96	753277	8.71	ppbv	98
23) Vinyl Acetate	5.21	43	3517272	8.78	ppbv	99
24) 1,1-Dichloroethane	5.14	63	2512252	8.68	ppbv	99
25) Ethyl Acetate	5.82	43	4611522	9.27	ppbv	100
26) Hexane	5.84	57	2129274	9.60	ppbv	99
27) Carbon Disulfide	4.67	76	1982909	9.58	ppbv	100
28) Methyl tert-Butyl Ether	5.16	73	2672253	9.08	ppbv	99
29) Chloroform	5.91	83	3076430	9.47	ppbv	97
30) Cyclohexane	7.31	84	1641655	9.72	ppbv	100
31) cis-1,2-Dichloroethene	5.70	61	2100114	9.68	ppbv	99
32) 1,1,1-Trichloroethane	6.68	97	2847729	9.00	ppbv	100
34) 2-Butanone	5.38	43	3140772	9.62	ppbv	99
35) Carbon Tetrachloride	7.20	117	2856549	10.09	ppbv	98
36) Benzene	7.07	78	4197540	10.32	ppbv	99
37) 1,2-Dichloroethane	6.47	62	2311879	9.36	ppbv	100
38) Trichloroethene	8.03	130	1416603	9.93	ppbv	98
39) 1,2-Dichloropropane	7.80	63	1711547	10.07	ppbv	97
40) 1,4-Dioxane	8.02	88	559108	10.83	ppbv	93
41) Tetrahydrofuran	6.21	42	1832427	10.45	ppbv	99
42) Bromodichloromethane	7.98	83	3195577	9.89	ppbv	97
43) Methyl Methacrylate	8.20	69	1729954	10.67	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032357.D
 Acq On : 15 Aug 2018 18:29
 Operator : SY/AP
 Sample : VL0815ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

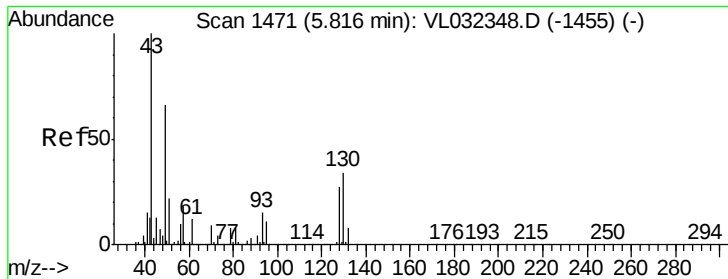
Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:39 PM

Quant Time: Aug 16 06:40:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	7293604	9.94	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	2343471	11.43	ppbv	98
46) cis-1,3-Dichloropropene	8.90	75	2801102	11.39	ppbv	99
47) 1,1,2-Trichloroethane	9.68	97	1794717	9.59	ppbv	97
48) Dibromochloromethane	10.52	129	2536987	10.14	ppbv	100
49) Bromoform	13.27	173	2114309	10.18	ppbv	100
50) 4-Methyl-2-Pentanone	8.94	43	4851767	10.28	ppbv	100
51) 2-Hexanone	10.34	43	3921356	11.84	ppbv #	98
52) Tetrachloroethene	11.44	164	1205238	10.04	ppbv	98
53) Toluene	10.01	91	4964722	11.13	ppbv	99
54) 1,2-Dibromoethane	10.83	107	2412899	10.04	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.35	131	1829455	8.99	ppbv	99
57) Chlorobenzene	12.37	112	3314778	8.95	ppbv	99
58) Ethyl Benzene	12.94	91	5992776	10.12	ppbv	100
59) m/p-Xylene	13.22	91	9784423m	19.45	ppbv	
60) o-Xylene	13.92	91	4783603	9.68	ppbv	100
61) Styrene	13.76	104	3750277	10.85	ppbv	99
62) Isopropylbenzene	14.90	105	6700951	9.52	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.91	83	3634191	8.74	ppbv	100
64) n-propylbenzene	15.79	120	1774673	9.74	ppbv	99
65) tert-Butylbenzene	16.98	119	5536485	9.21	ppbv	100
66) Benzyl Chloride	17.23	91	3653375	10.26	ppbv	99
67) sec-Butylbenzene	17.53	105	8340319	9.33	ppbv	99
69) p-Isopropyltoluene	17.89	119	6689693	9.78	ppbv	99
70) n-Butylbenzene	18.78	91	7416567	9.89	ppbv	100
71) 2-Chlorotoluene	15.69	91	5326548	9.78	ppbv	100
72) 4-Ethyltoluene	16.07	105	5579881	10.12	ppbv	99
73) 1,3,5-Trimethylbenzene	16.23	105	5246727	9.89	ppbv	96
74) 1,2,4-Trimethylbenzene	17.00	105	5252437	9.31	ppbv #	91
75) 1,3-Dichlorobenzene	17.24	146	2955577	8.71	ppbv	99
76) 1,4-Dichlorobenzene	17.38	146	3002669	9.35	ppbv	100
77) 1,2-Dichlorobenzene	18.06	146	2962126	9.14	ppbv	100
78) Hexachloro-1,3-Butadiene	23.61	225	909985	8.37	ppbv	100
79) Naphthalene	22.49	128	4957596	9.41	ppbv	99
80) Naphthalene, 2-methyl-	25.17	142	2062216	18.31	ppbv	99
81) 1,2,4-Trichlorobenzene	22.22	180	2370436	10.86	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 49 Resp: 2443058

Ion Ratio Lower Upper

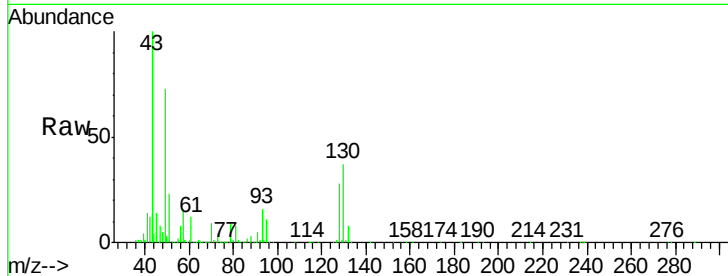
49 100

128 40.5 20.5 61.6

130 51.4 26.2 78.5

Manual Integrations
APPROVED

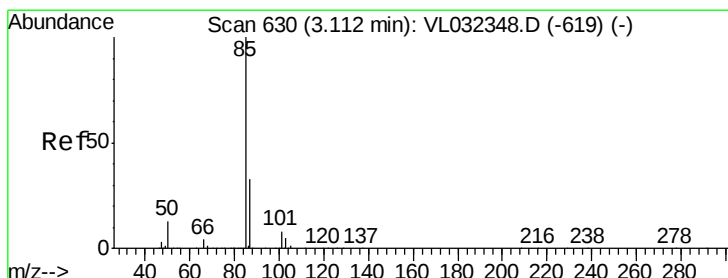
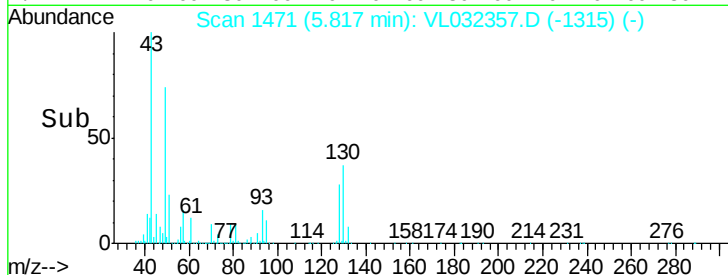
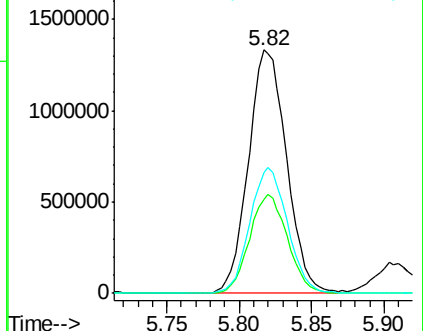
MMDadoda
8/17/2018 2:06:39 PM



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: 11.54 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032357.D

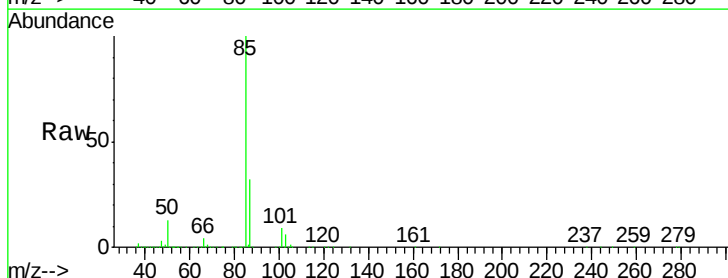
Acq: 15 Aug 2018 18:29

Tgt Ion: 85 Resp: 2249766

Ion Ratio Lower Upper

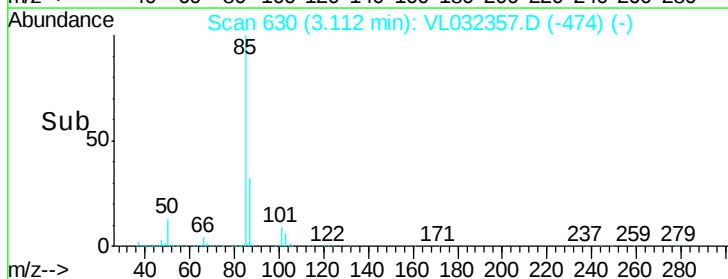
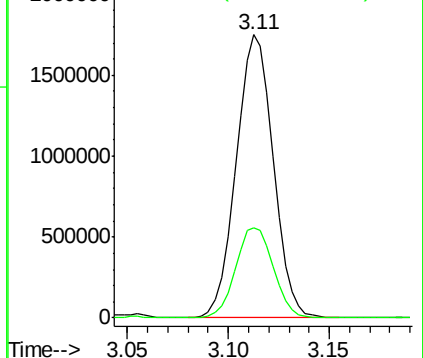
85 100

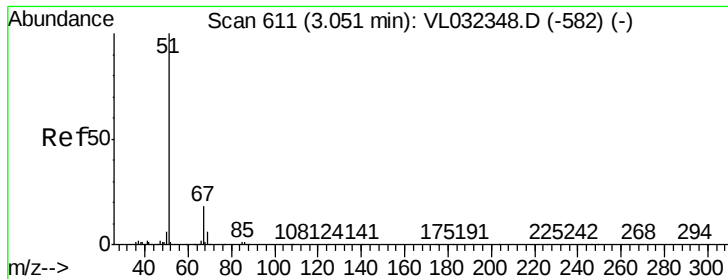
87 31.6 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.00 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Tot Ion: 51 Resp: 2036675

Ion Ratio Lower Upper

51 100

67 17.1 13.7 20.5

Instrument :

MSVOA_L

ClientSampleId :

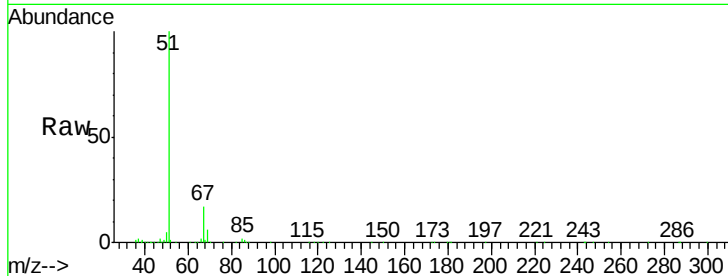
VL0815ABS01

Manual Integrations

APPROVED

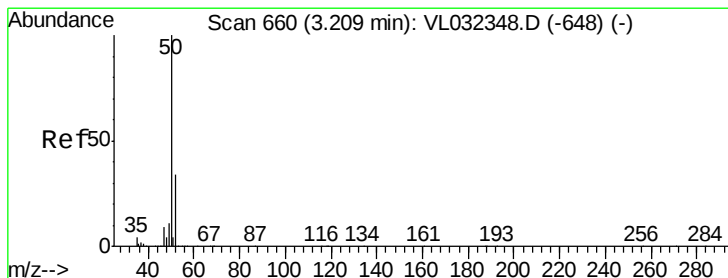
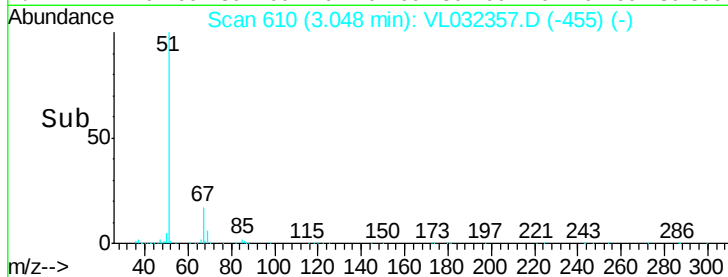
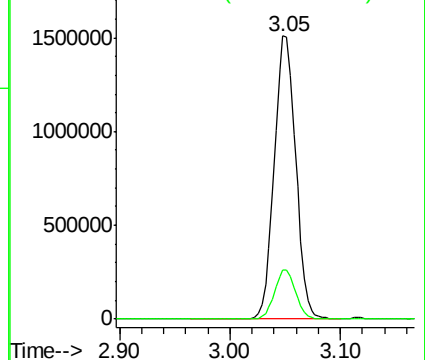
MMDadoda

8/17/2018 2:06:39 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.18 ppbv

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VL032357.D

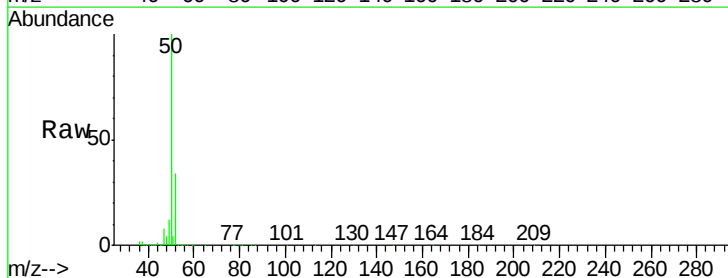
Acq: 15 Aug 2018 18:29

Tgt Ion: 50 Resp: 1236939

Ion Ratio Lower Upper

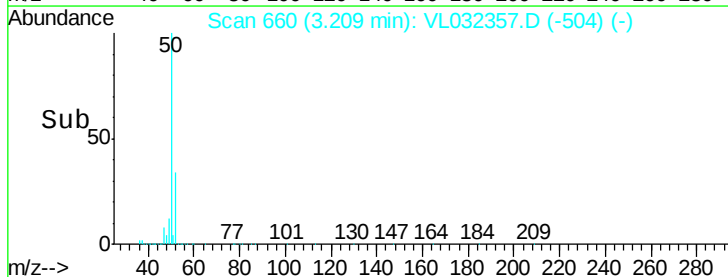
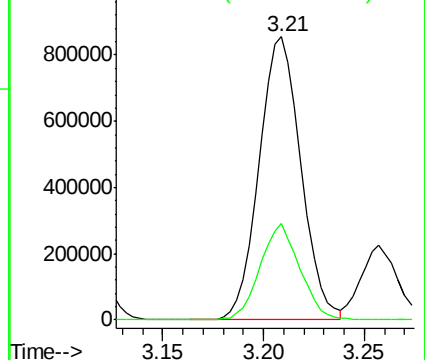
50 100

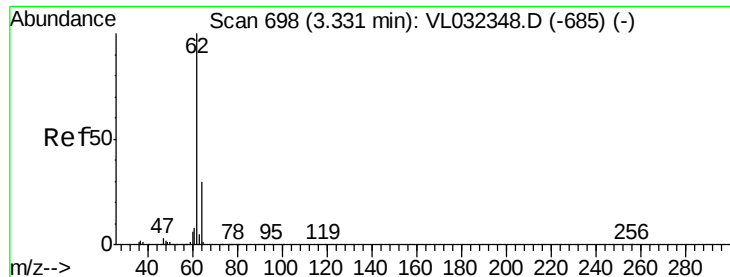
52 34.0 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.74 ppbv

RT: 3.33 min Scan# 698

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 62 Resp: 1122578

Ion Ratio Lower Upper

62 100

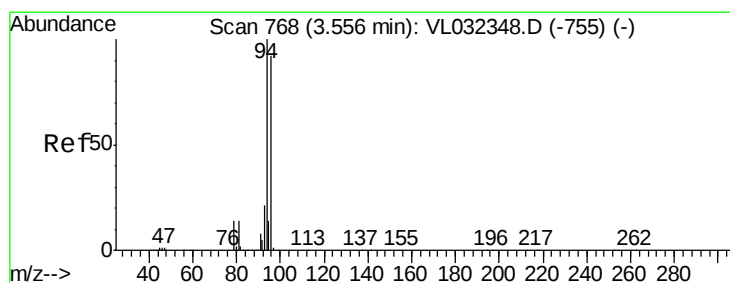
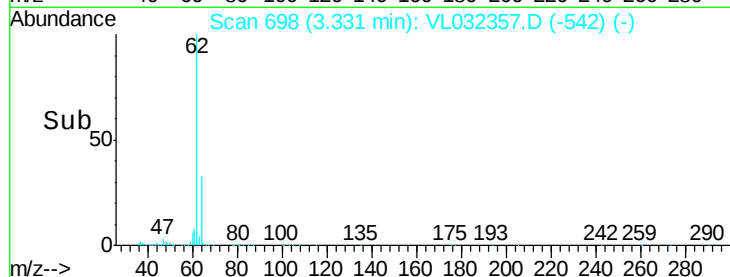
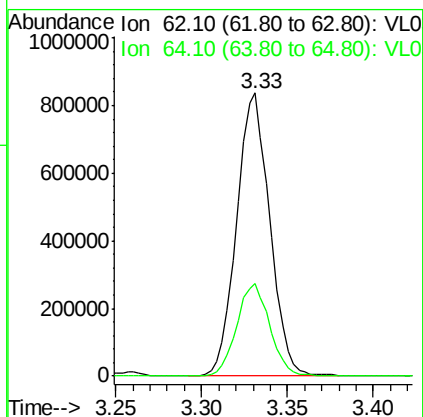
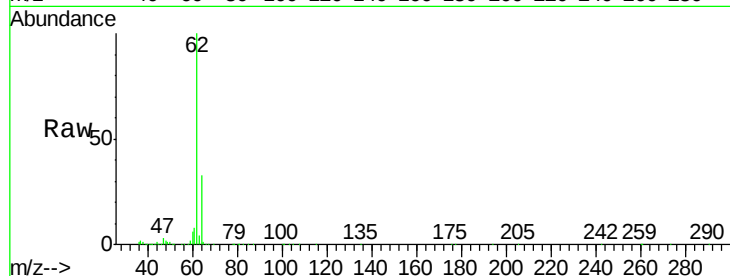
64 32.9 24.2 36.2

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#6

Bromomethane

Concen: 9.18 ppbv

RT: 3.56 min Scan# 768

Delta R.T. 0.00 min

Lab File: VL032357.D

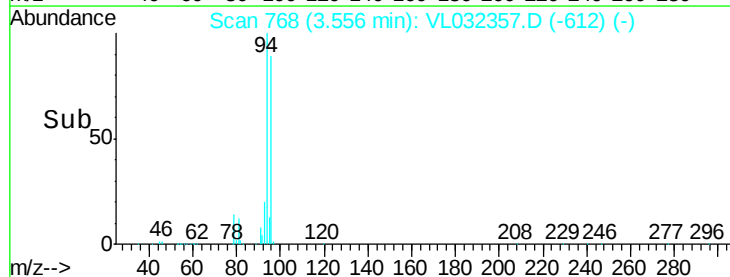
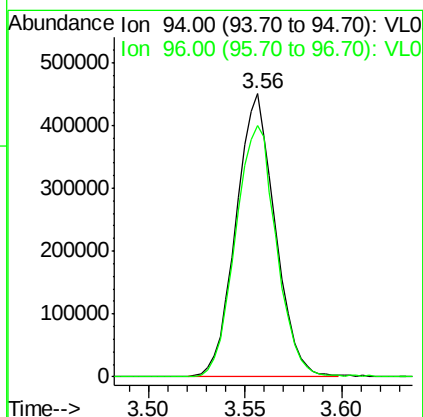
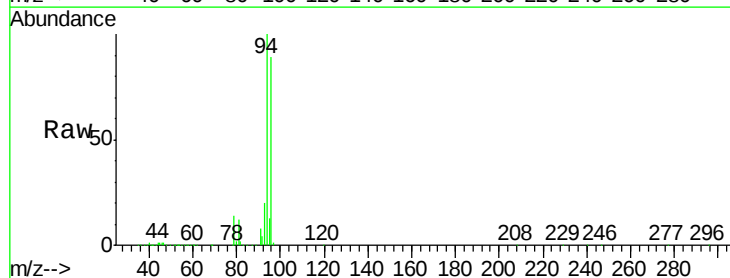
Acq: 15 Aug 2018 18:29

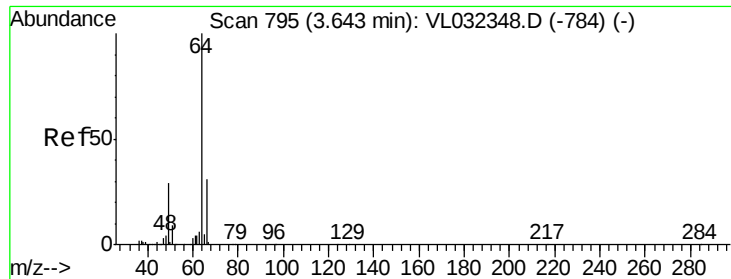
Tgt Ion: 94 Resp: 631861

Ion Ratio Lower Upper

94 100

96 88.7 73.7 110.5





#7

Chloroethane

Concen: 9.14 ppbv

RT: 3.64 min Scan# 794

Delta R.T. -0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 64 Resp: 411338

Ion Ratio Lower Upper

64 100

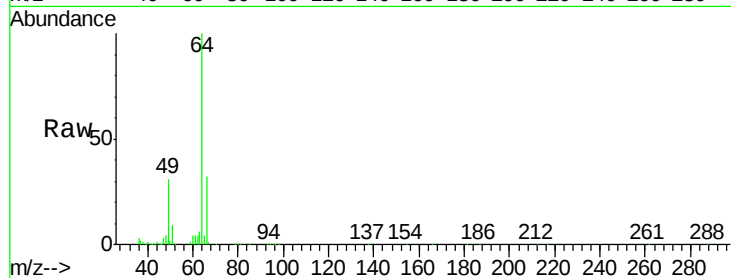
66 31.8 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.64

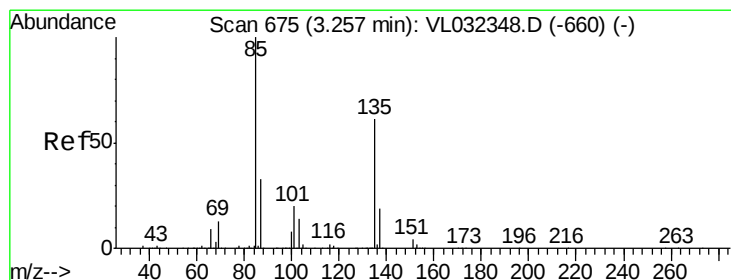
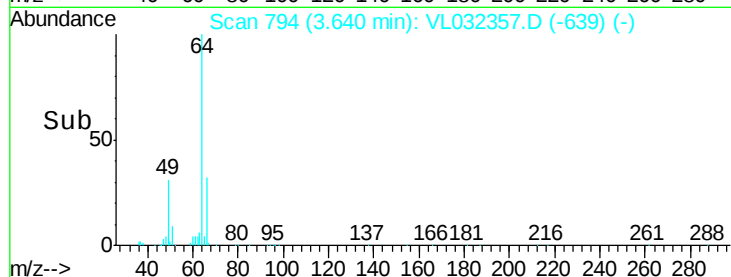
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.61 ppbv

RT: 3.26 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL032357.D

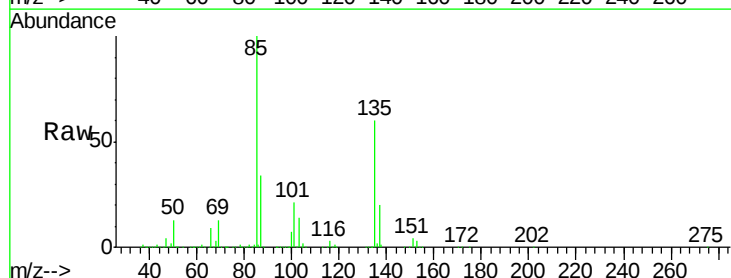
Acq: 15 Aug 2018 18:29

Tgt Ion: 85 Resp: 2377654

Ion Ratio Lower Upper

85 100

135 61.3 49.0 73.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.26

2000000

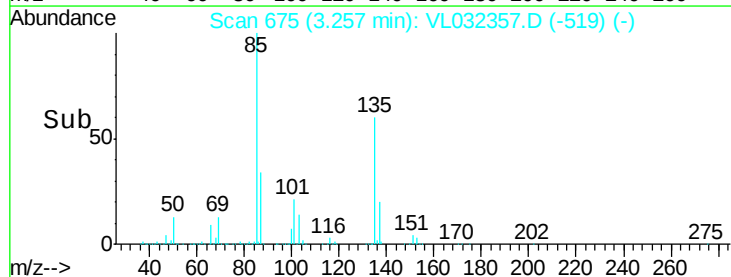
1500000

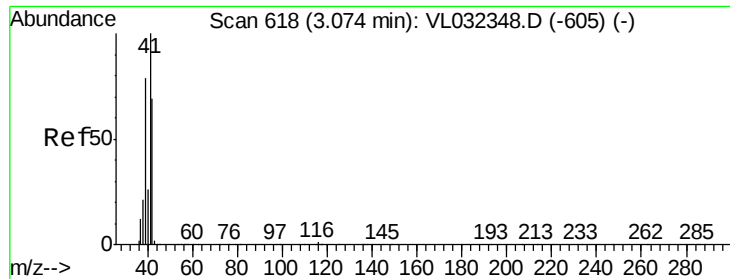
1000000

500000

0

Time-->





#9

Propene

Concen: 9.88 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 41 Resp: 956502

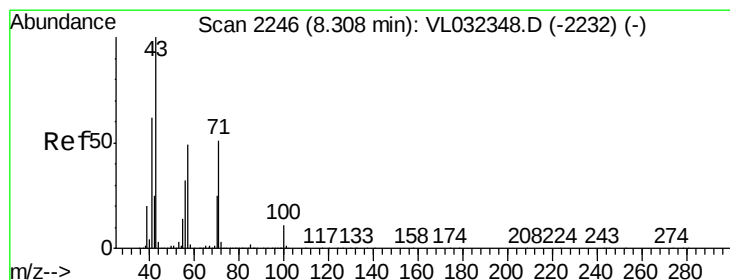
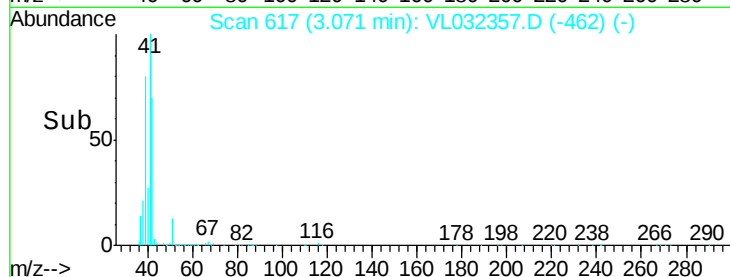
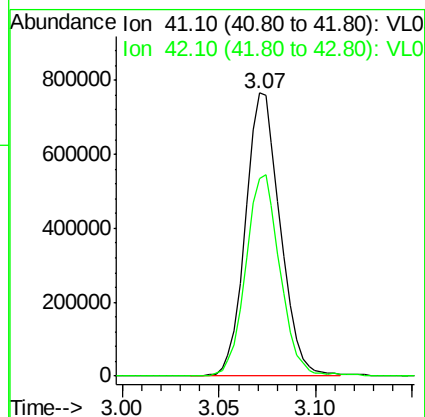
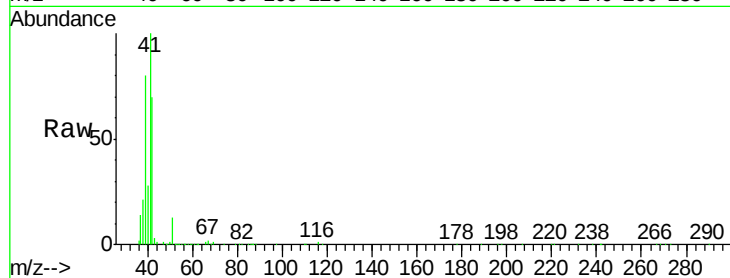
Ion Ratio Lower Upper

41 100

42 70.9 55.9 83.9

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



#10

Heptane

Concen: 9.85 ppbv

RT: 8.31 min Scan# 2247

Delta R.T. 0.00 min

Lab File: VL032357.D

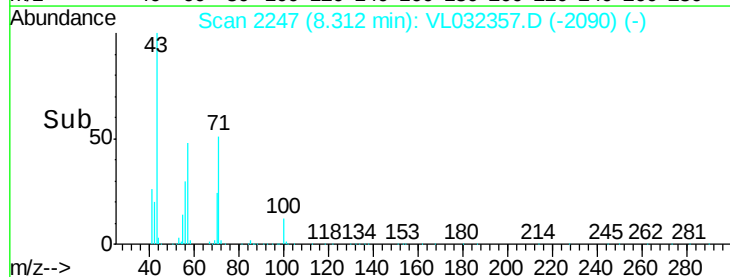
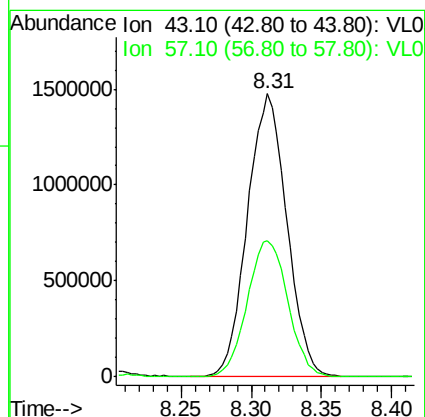
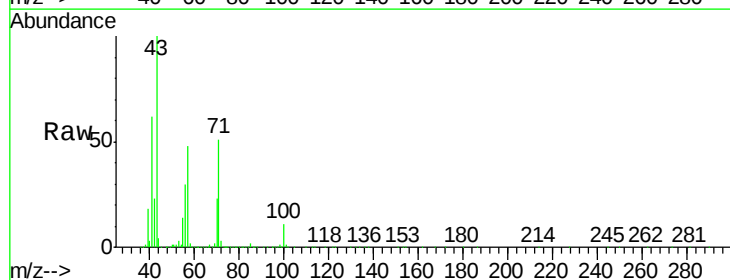
Acq: 15 Aug 2018 18:29

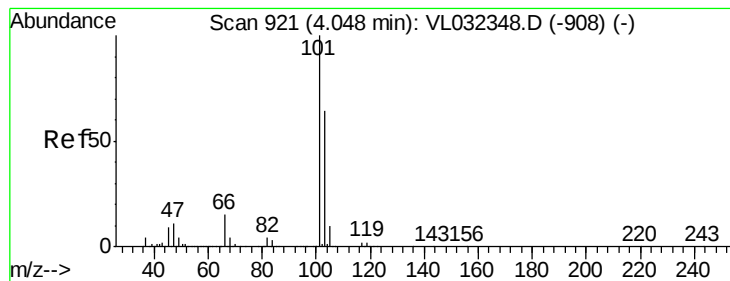
Tgt Ion: 43 Resp: 2873664

Ion Ratio Lower Upper

43 100

57 49.8 39.5 59.3





#11

Trichlorofluoromethane

Concen: 8.24 ppbv

RT: 4.05 min Scan# 922

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion:101 Resp: 2250936

Ion Ratio Lower Upper

101 100

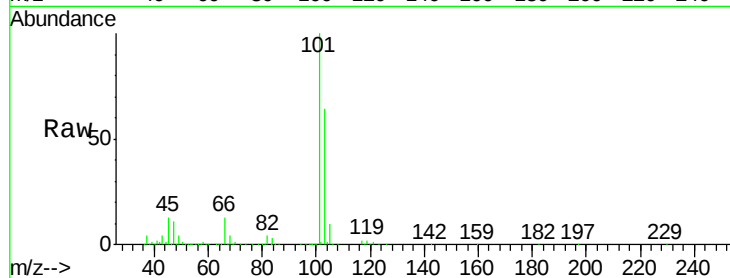
103 64.5 51.4 77.0

Manual Integrations

APPROVED

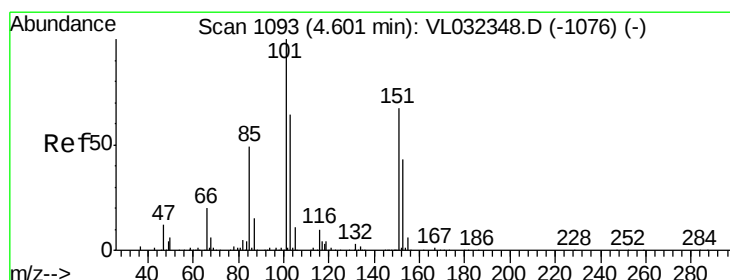
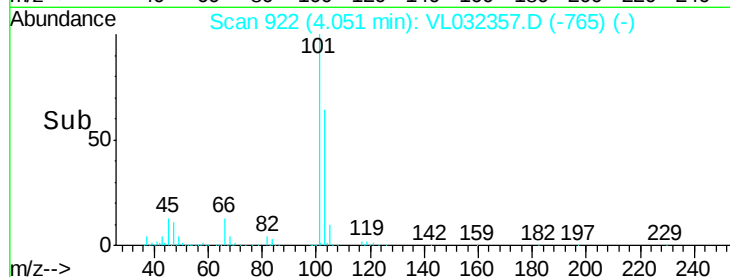
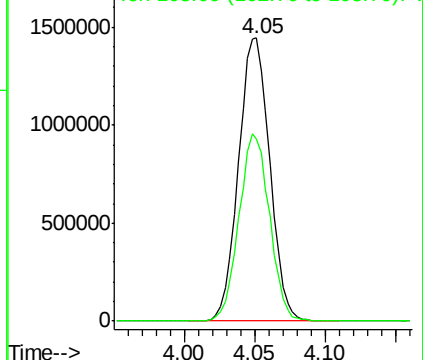
MMDadoda

8/17/2018 2:06:39 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.61 ppbv

RT: 4.60 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VL032357.D

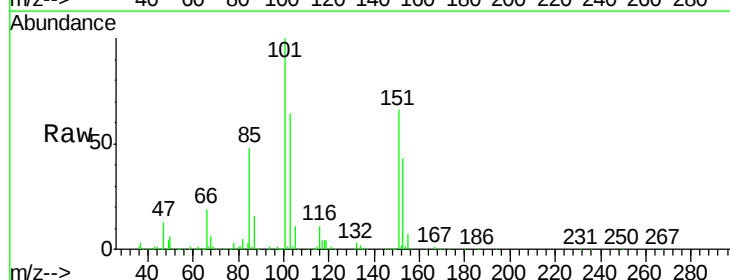
Acq: 15 Aug 2018 18:29

Tgt Ion:101 Resp: 1585089

Ion Ratio Lower Upper

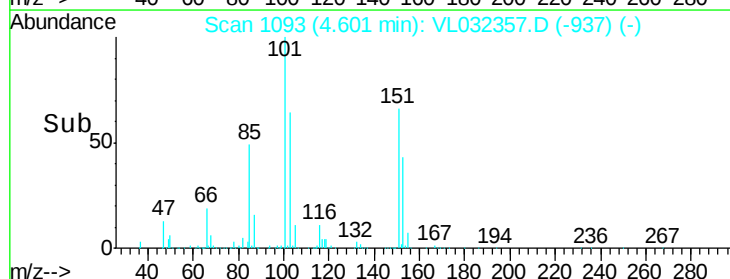
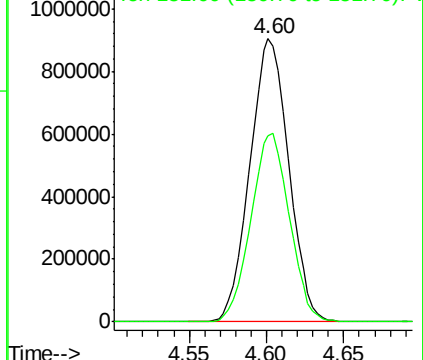
101 100

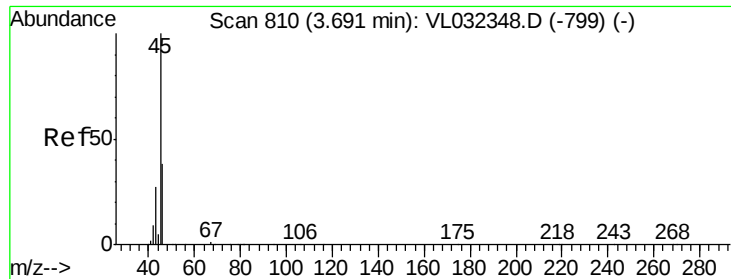
151 66.0 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.09 ppbv

RT: 3.69 min Scan# 810

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 45 Resp: 251078

Ion Ratio Lower Upper

45 100

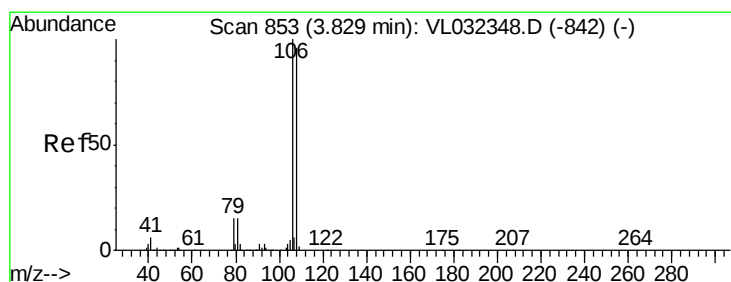
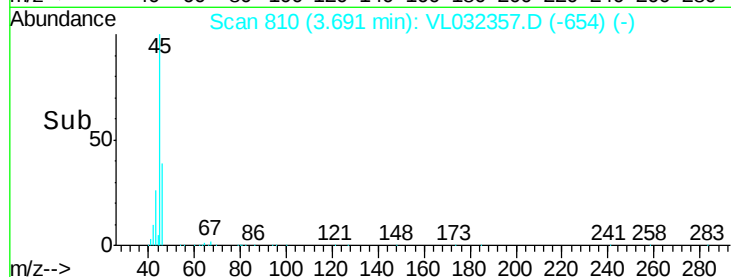
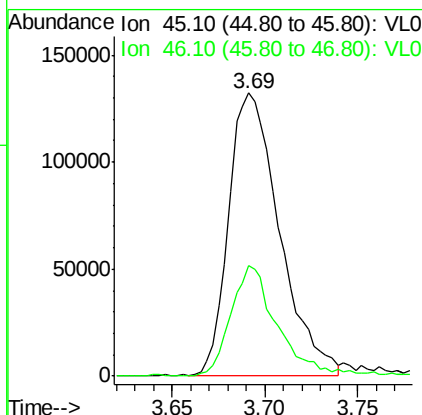
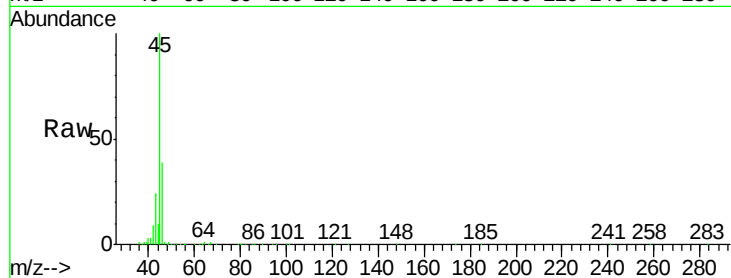
46 37.2 15.6 62.4

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#14

Bromoethene

Concen: 8.96 ppbv

RT: 3.83 min Scan# 854

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

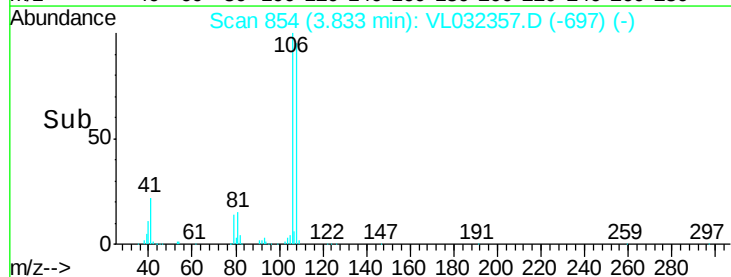
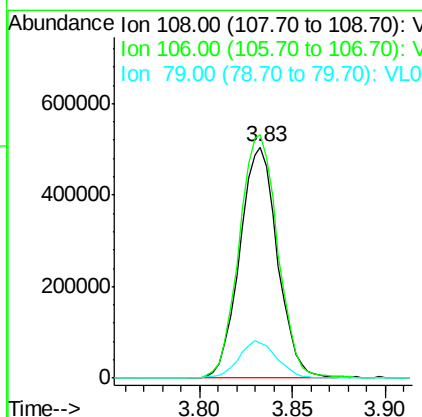
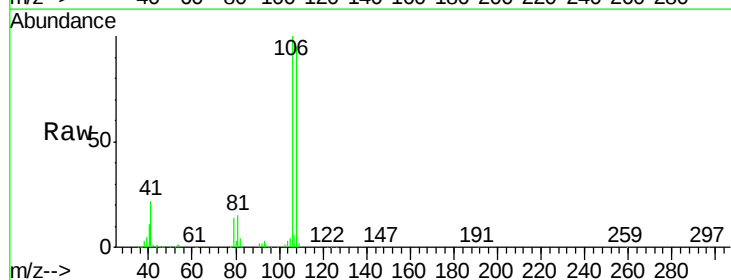
Tgt Ion: 108 Resp: 713309

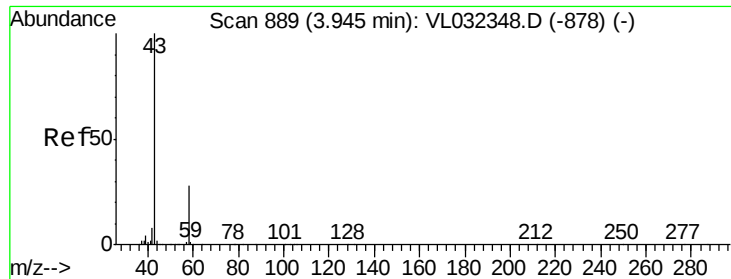
Ion Ratio Lower Upper

108 100

106 108.1 85.7 128.5

79 16.7 13.1 19.7





#15

Acetone

Concen: 7.56 ppbv

RT: 3.95 min Scan# 889

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 43 Resp: 1755428

Ion Ratio Lower Upper

43 100

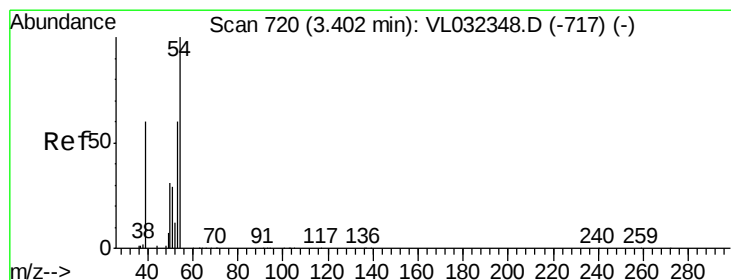
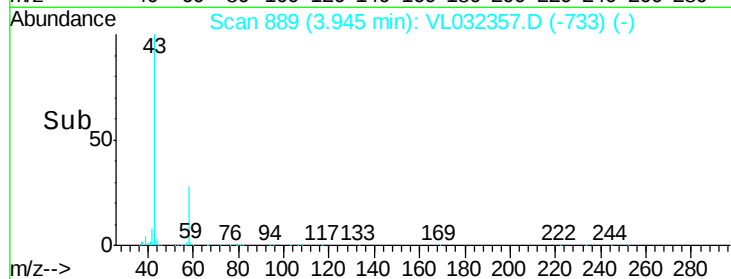
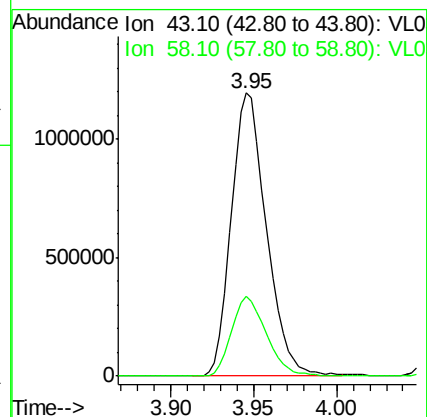
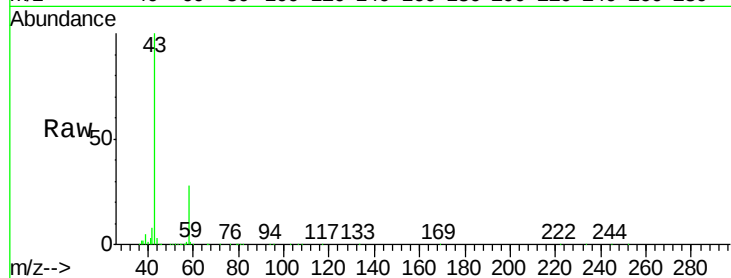
58 27.9 22.4 33.6

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#16

1,3-Butadiene

Concen: 10.09 ppbv

RT: 3.40 min Scan# 720

Delta R.T. 0.00 min

Lab File: VL032357.D

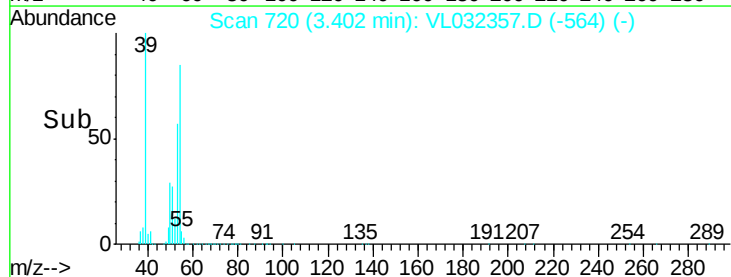
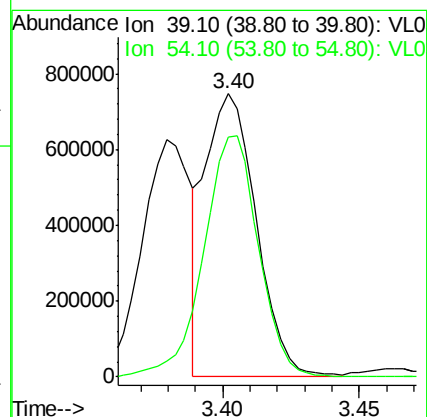
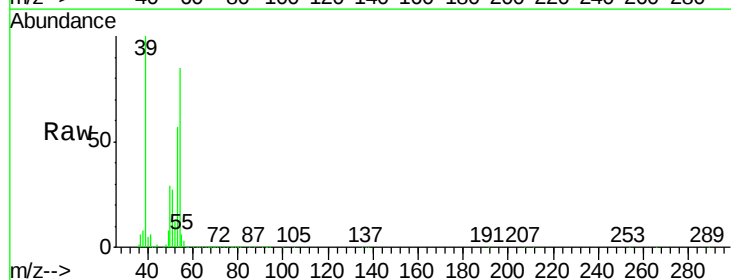
Acq: 15 Aug 2018 18:29

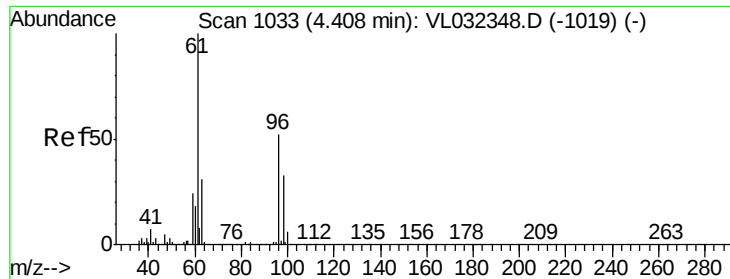
Tgt Ion: 39 Resp: 967185

Ion Ratio Lower Upper

39 100

54 92.4 85.5 128.3





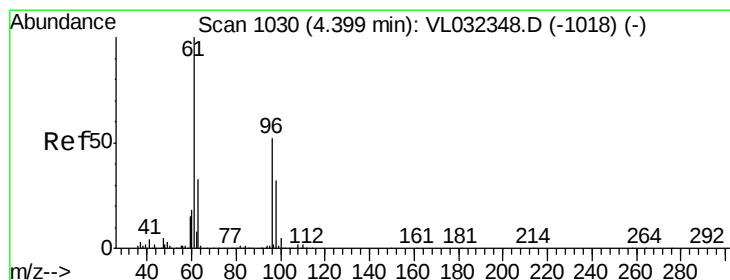
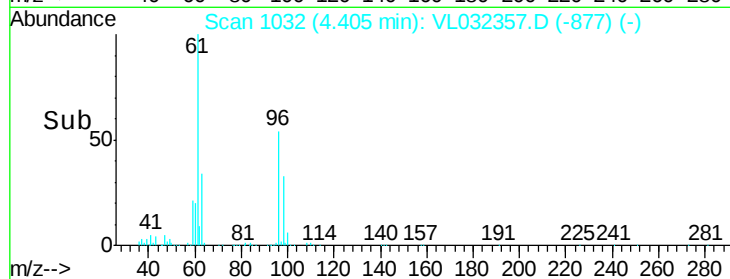
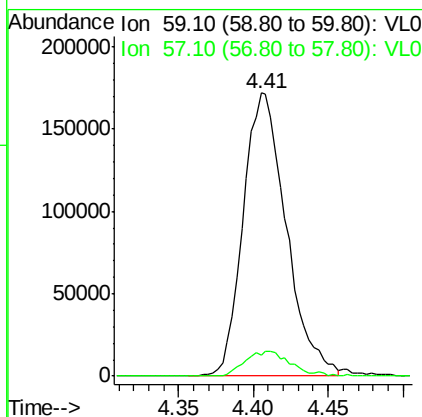
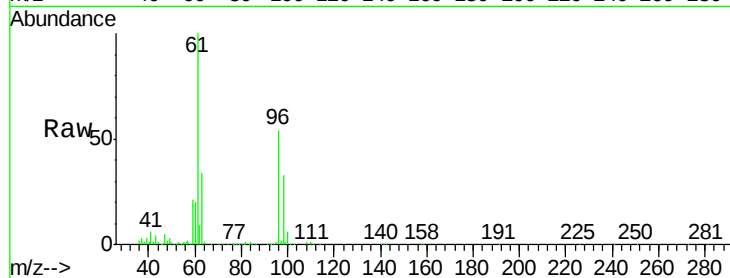
#17
 tert-Butyl alcohol
 Concen: 8.83 ppbv
 RT: 4.41 min Scan# 1032
 Delta R.T. -0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion: 59 Resp: 343854
 Ion Ratio Lower Upper
 59 100
 57 9.6 7.6 11.4

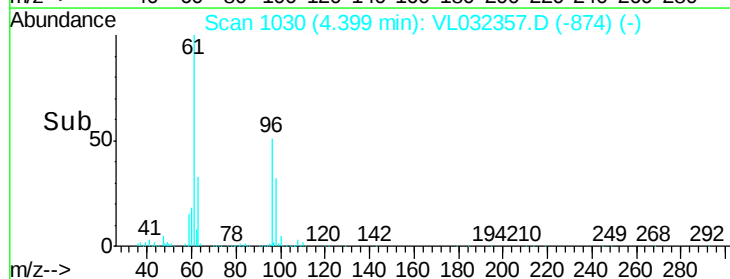
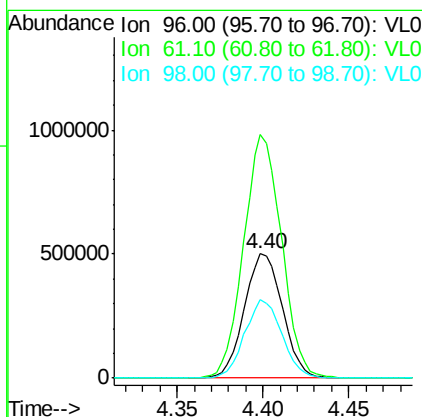
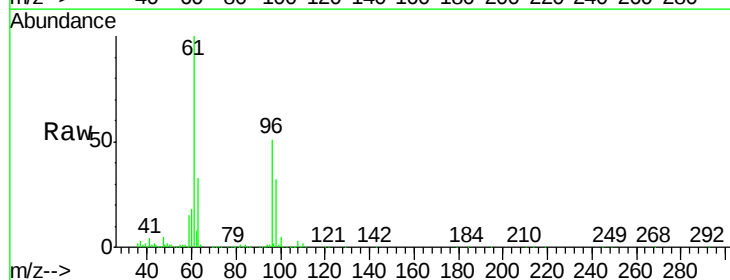
Manual Integrations
 APPROVED

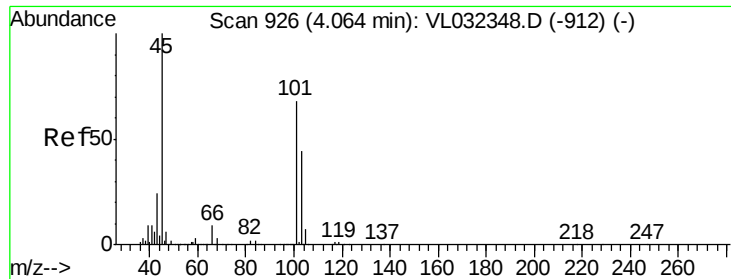
MMDadoda
 8/17/2018 2:06:39 PM



#18
 1,1-Dichloroethene
 Concen: 8.99 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Tgt Ion: 96 Resp: 770615
 Ion Ratio Lower Upper
 96 100
 61 195.4 154.6 231.8
 98 62.7 50.1 75.1





#19

Isopropyl Alcohol

Concen: 8.82 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 45 Resp: 1378032

Ion Ratio Lower Upper

45 100

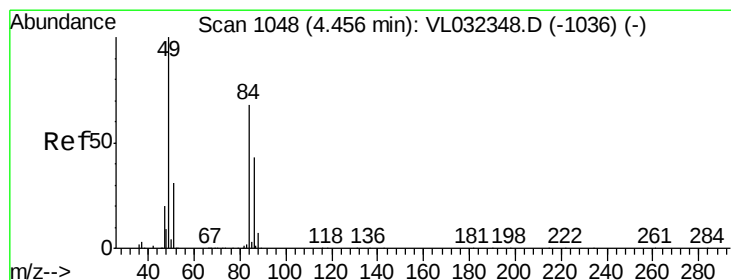
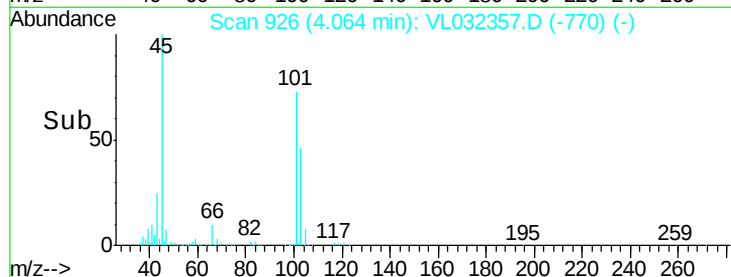
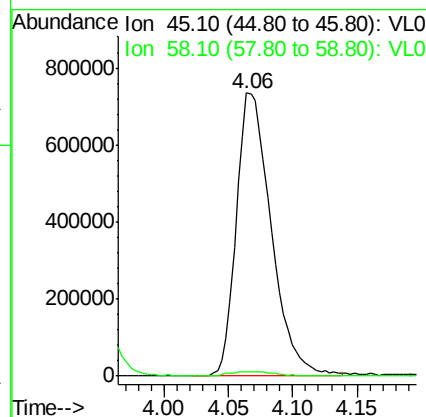
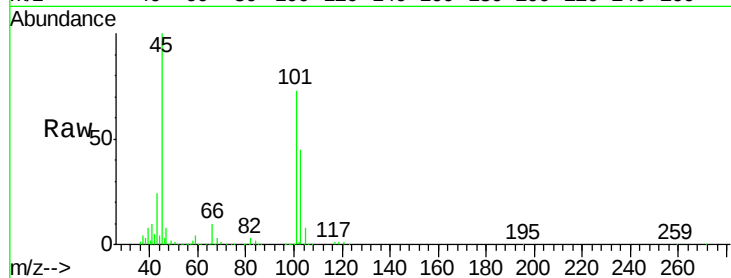
58 2.4 1.4 2.0#

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#20

Methylene Chloride

Concen: 7.82 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Tgt Ion: 84 Resp: 685130

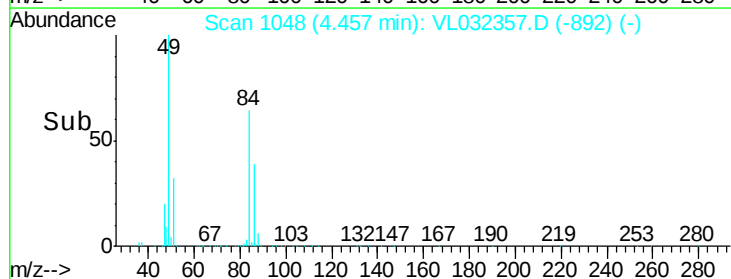
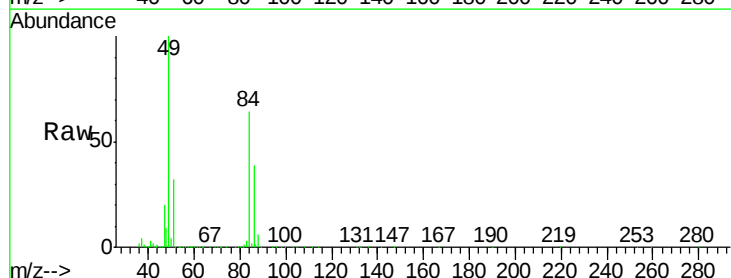
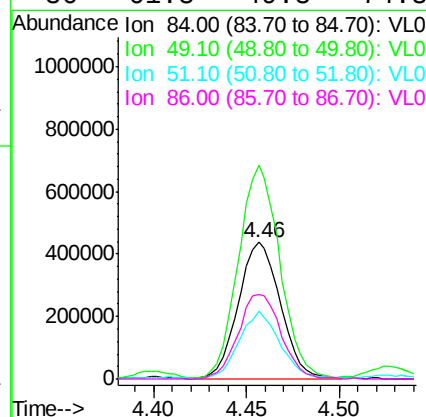
Ion Ratio Lower Upper

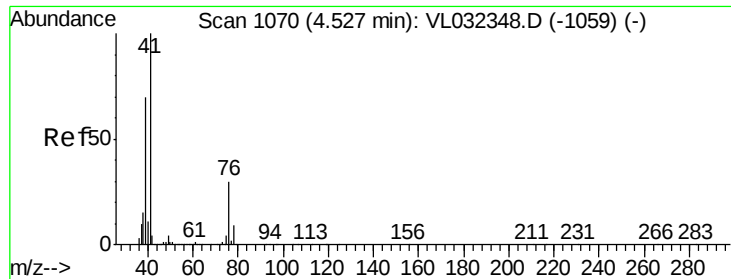
84 100

49 156.2 117.3 175.9

51 49.5 36.6 55.0

86 61.8 49.8 74.8





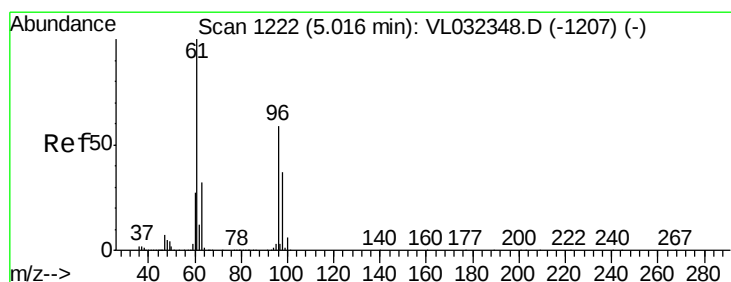
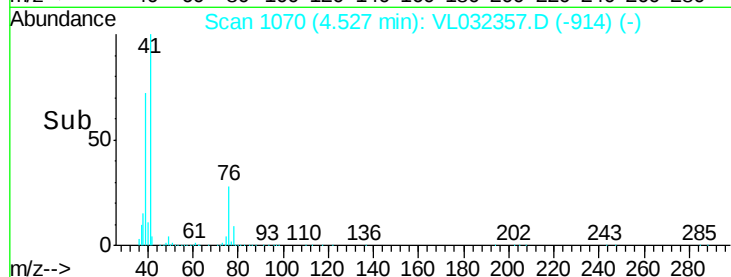
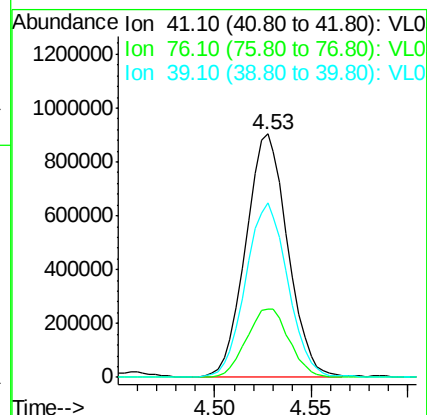
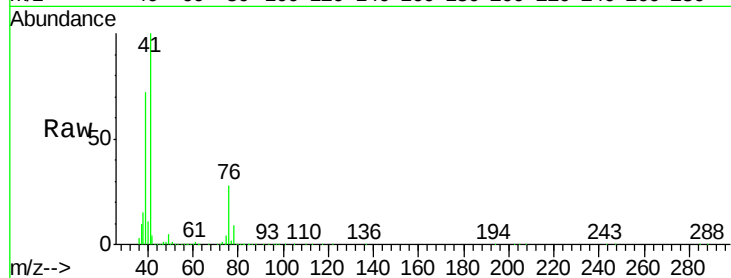
#21
Allvl Chloride
Concen: 9.29 ppbv
RT: 4.53 min Scan# 1070
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.8	22.9	34.3
39	72.0	57.6	86.4

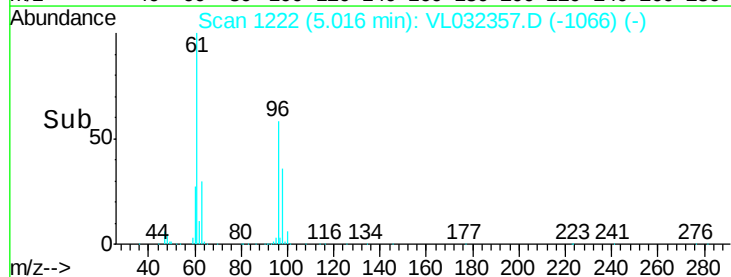
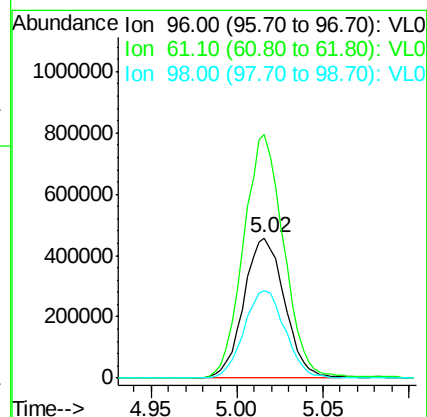
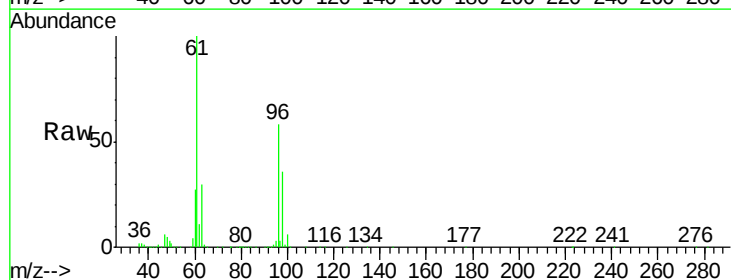
Manual Integrations
APPROVED

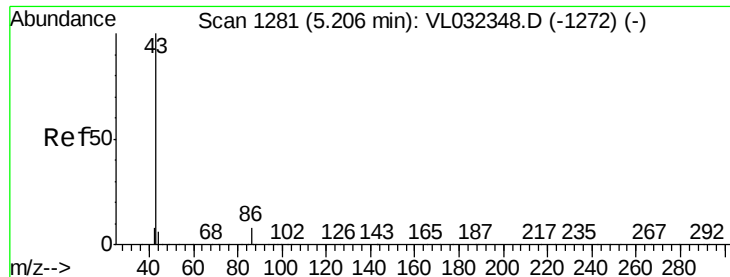
MMDadoda
8/17/2018 2:06:39 PM



#22
trans-1,2-Dichloroethene
Concen: 8.71 ppbv
RT: 5.02 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.9	136.6	205.0
98	62.5	50.6	76.0





#23

Vinyl Acetate

Concen: 8.78 ppbv

RT: 5.21 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 43 Resp: 3517272

Ion Ratio Lower Upper

43 100

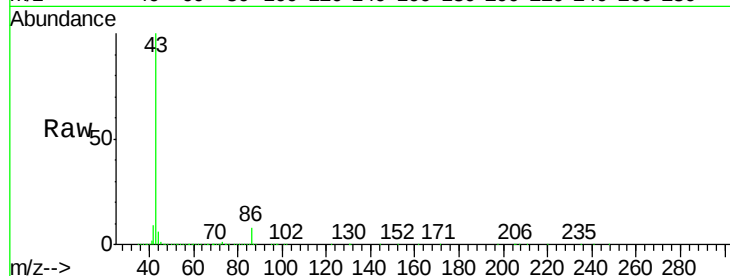
86 7.6 5.5 8.3

42 9.1 7.0 10.6

44 6.0 4.6 6.8

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM

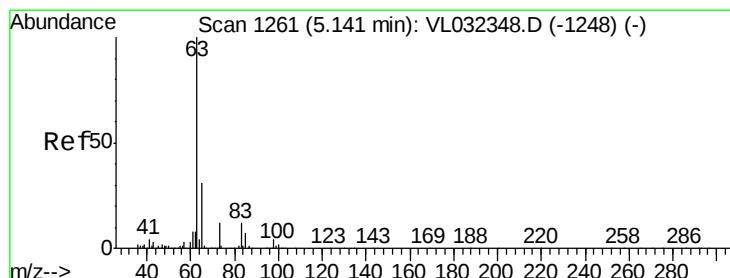
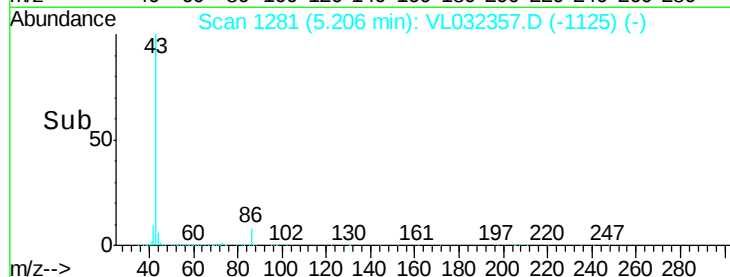
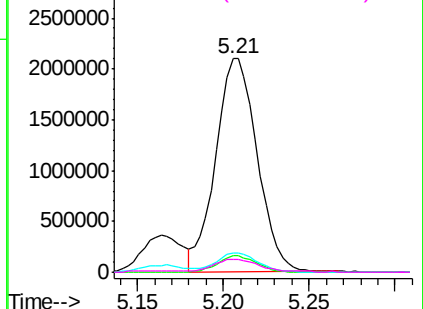


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.68 ppbv

RT: 5.14 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

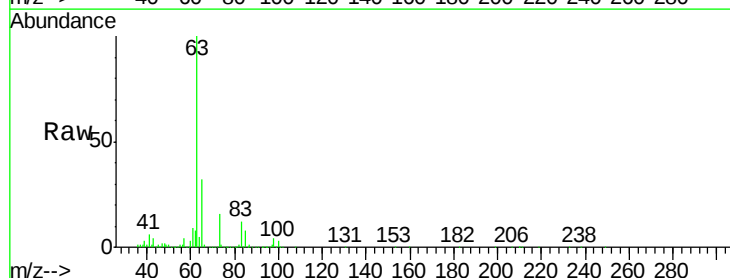
Tgt Ion: 63 Resp: 2512252

Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.3

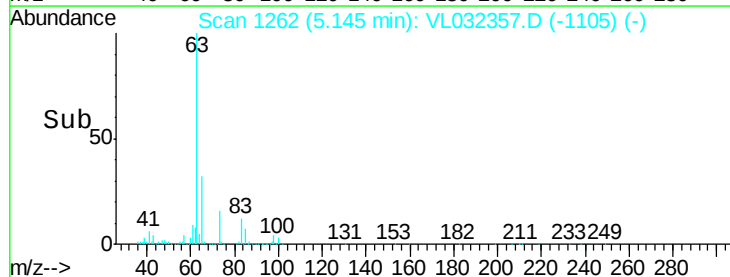
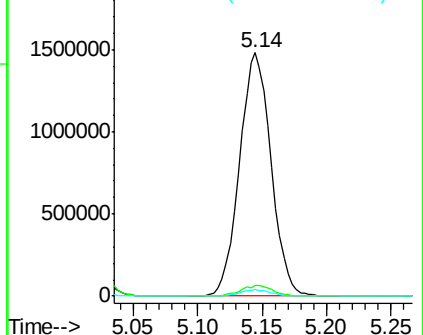
100 2.9 1.2 3.6

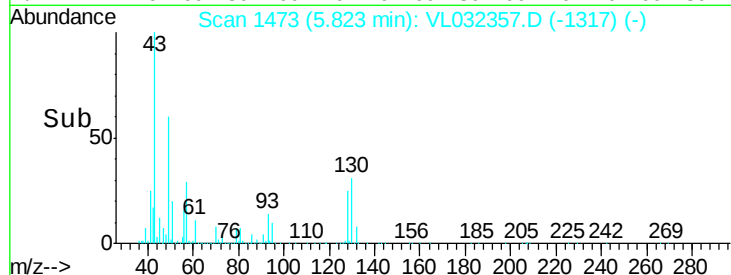
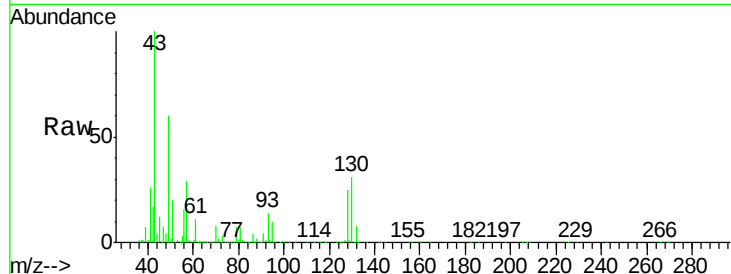
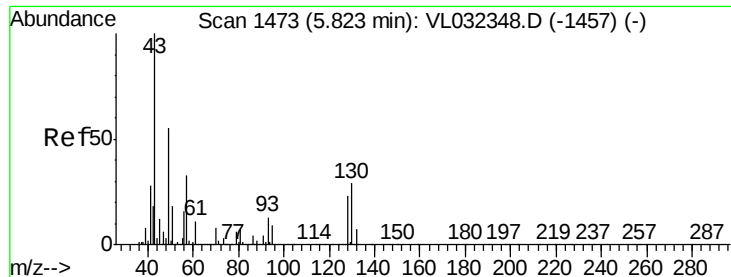


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

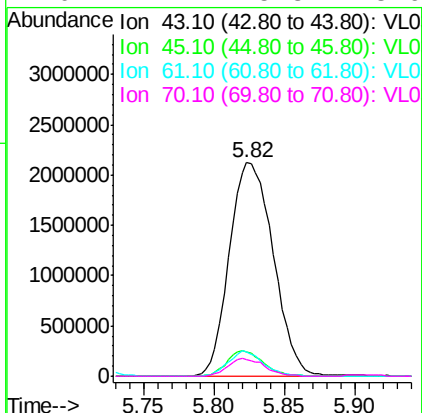
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 9.27 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

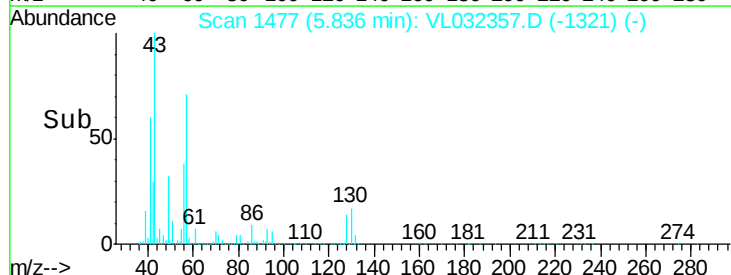
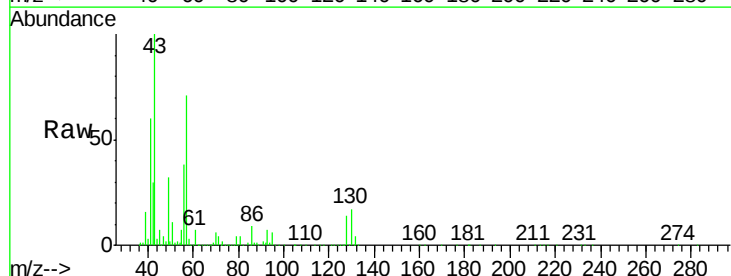
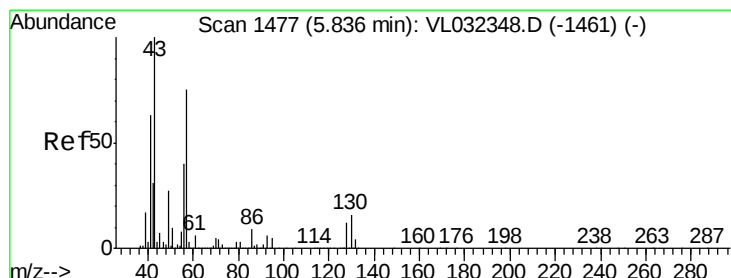
Tot Ion	43	Resp	4611522
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.5	7.4	11.2
70	7.1	5.8	8.6



Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

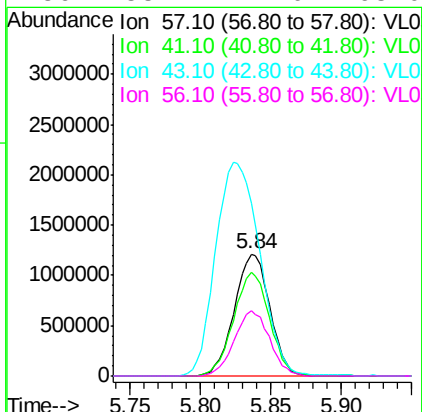
Manual Integrations
APPROVED

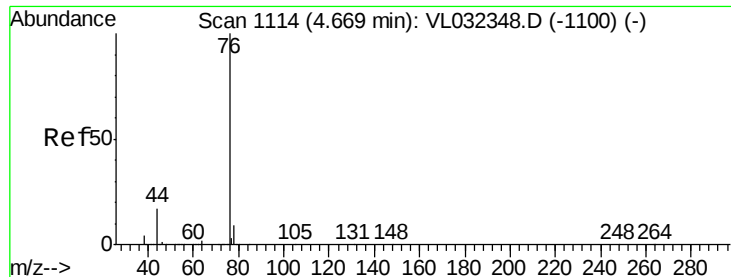
MMDadoda
8/17/2018 2:06:39 PM



#26
Hexane
Concen: 9.60 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion	57	Resp	2129274
Ion	Ratio	Lower	Upper
57	100		
41	86.0	68.0	102.0
43	217.7	175.3	262.9
56	53.7	42.0	63.0





#27

Carbon Disulfide

Concen: 9.58 ppbv

RT: 4.67 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 76 Resp: 1982909

Ion Ratio Lower Upper

76 100

44 18.1 14.4 21.6

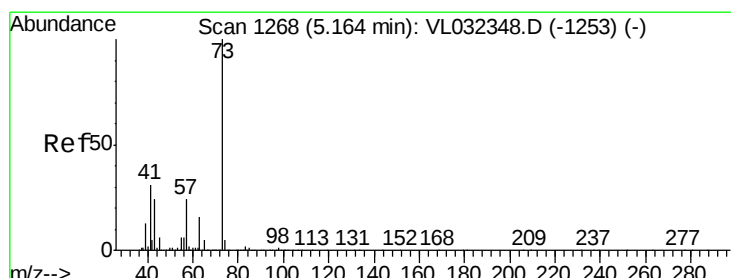
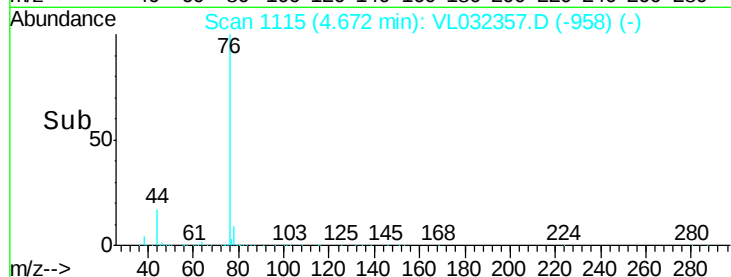
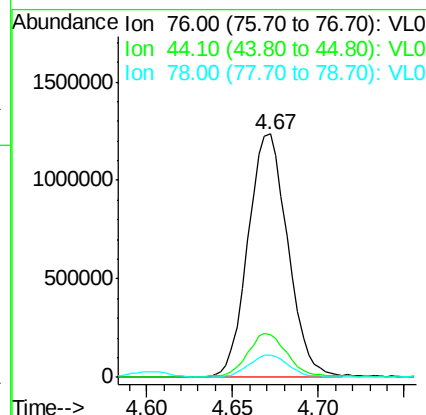
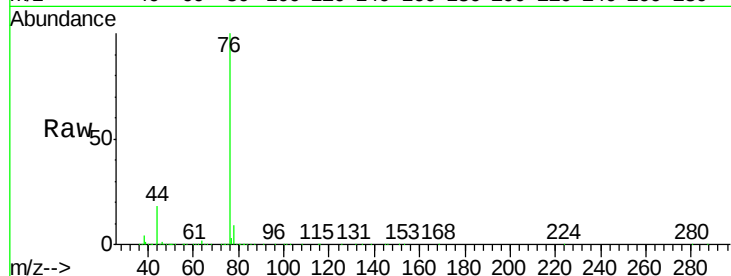
78 9.2 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#28

Methyl tert-Butyl Ether

Concen: 9.08 ppbv

RT: 5.16 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VL032357.D

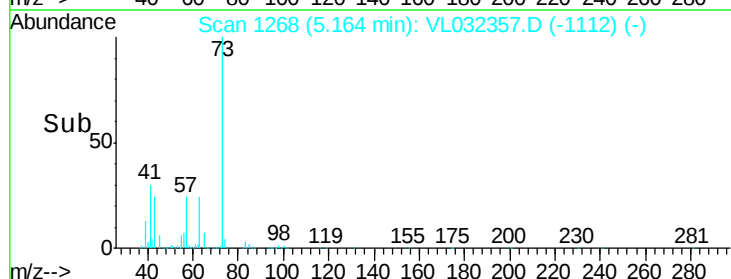
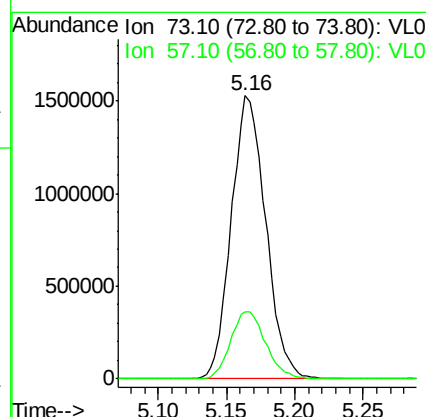
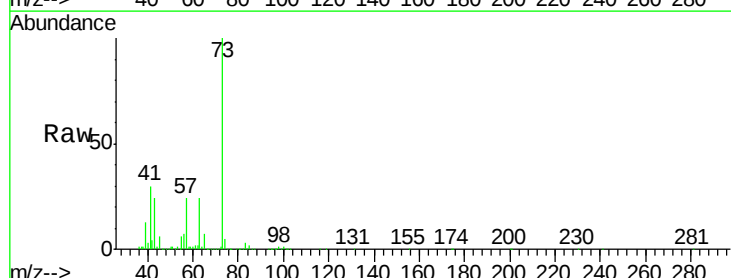
Acq: 15 Aug 2018 18:29

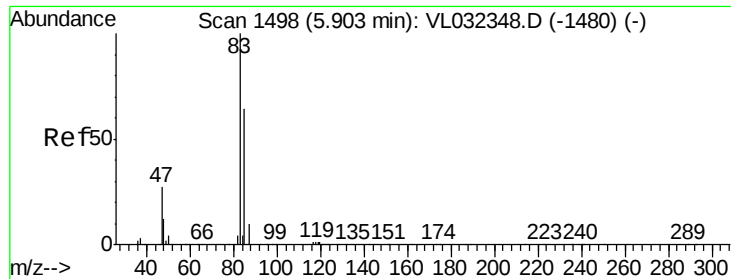
Tgt Ion: 73 Resp: 2672253

Ion Ratio Lower Upper

73 100

57 24.5 19.3 28.9





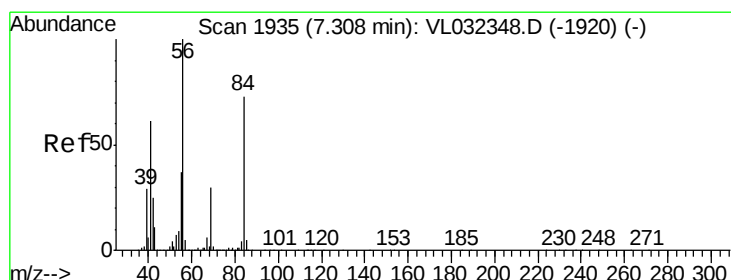
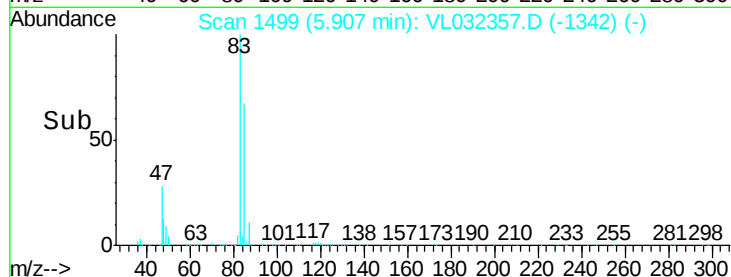
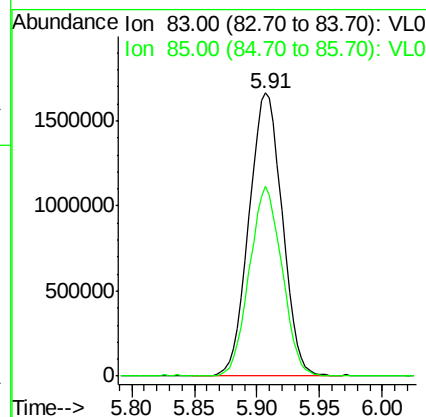
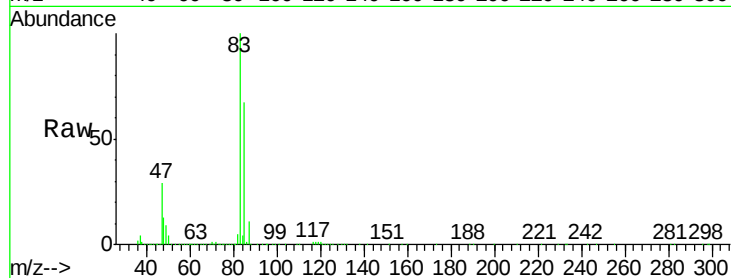
#29
Chloroform
Concen: 9.47 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

Tot Ion: 83 Resp: 3076430
Ion Ratio Lower Upper
83 100
85 66.8 51.6 77.4

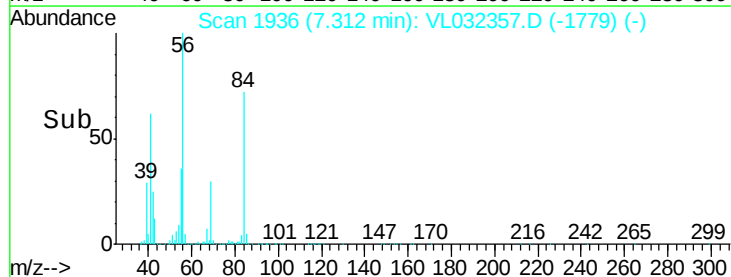
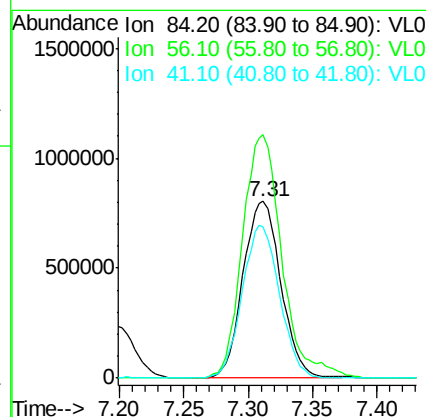
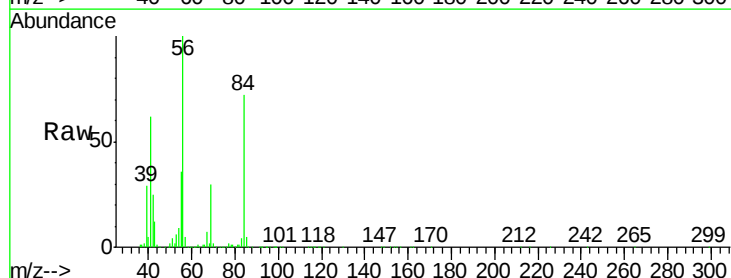
Manual Integrations
APPROVED

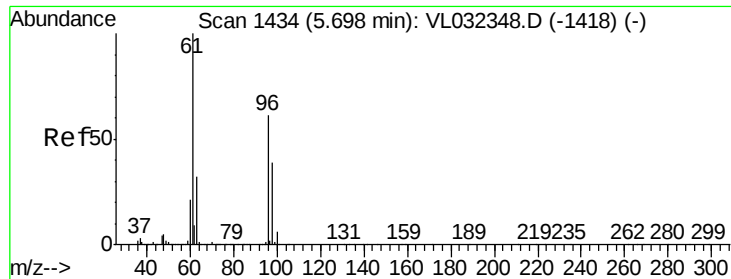
MMDadoda
8/17/2018 2:06:39 PM



#30
Cyclohexane
Concen: 9.72 ppbv
RT: 7.31 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion: 84 Resp: 1641655
Ion Ratio Lower Upper
84 100
56 144.1 115.7 173.5
41 85.3 67.9 101.9





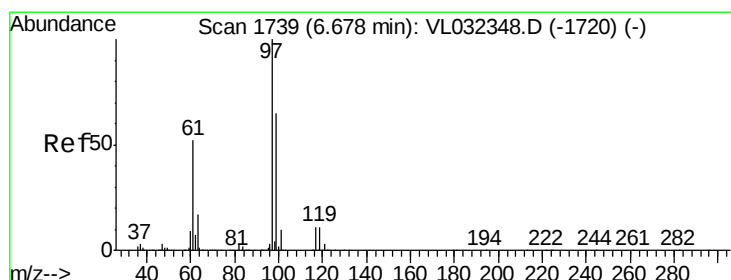
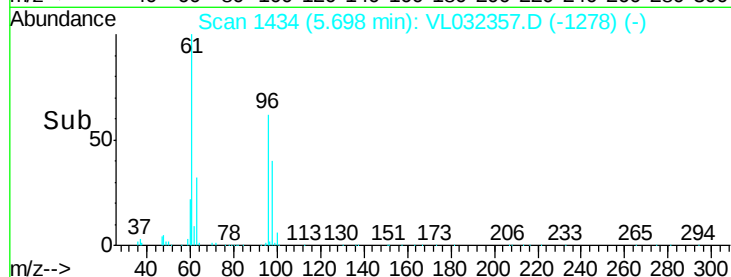
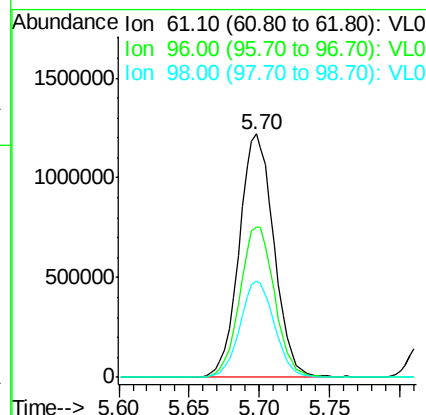
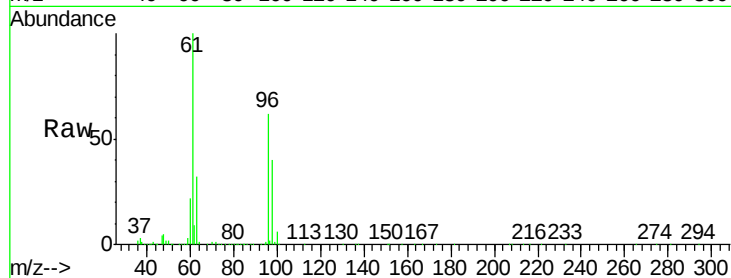
#31
 cis-1,2-Dichloroethene
 Concen: 9.68 ppbv
 RT: 5.70 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.6	48.5	72.7
98	39.7	31.0	46.4

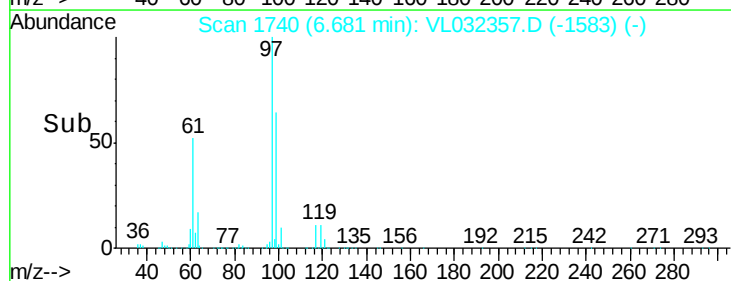
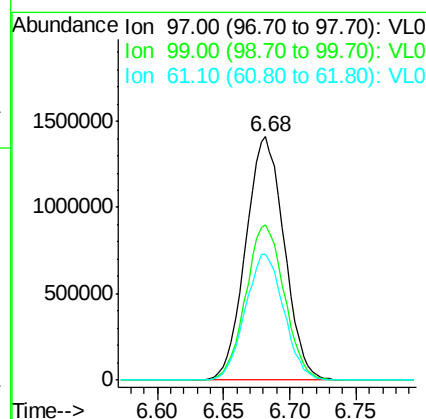
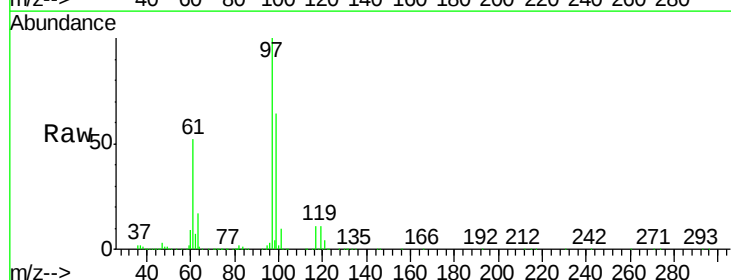
Manual Integrations
 APPROVED

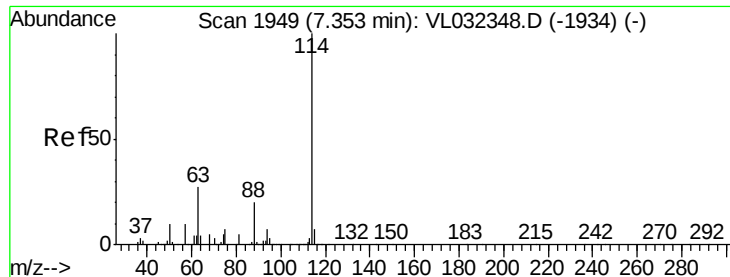
MMDadoda
 8/17/2018 2:06:39 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.00 ppbv
 RT: 6.68 min Scan# 1740
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.1	76.7
61	51.8	41.1	61.7





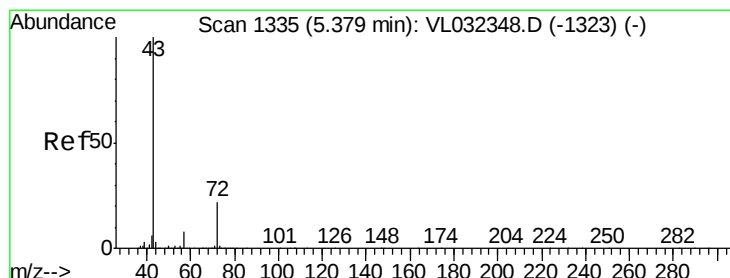
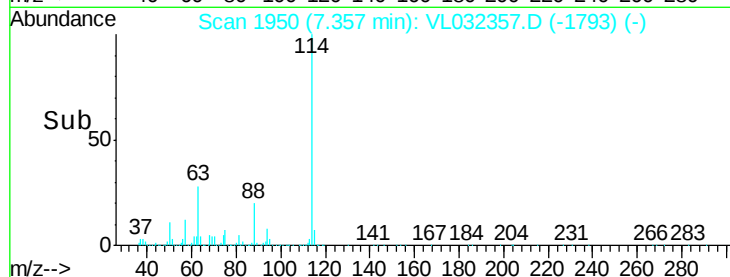
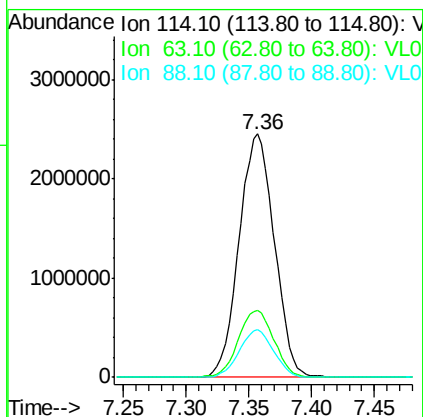
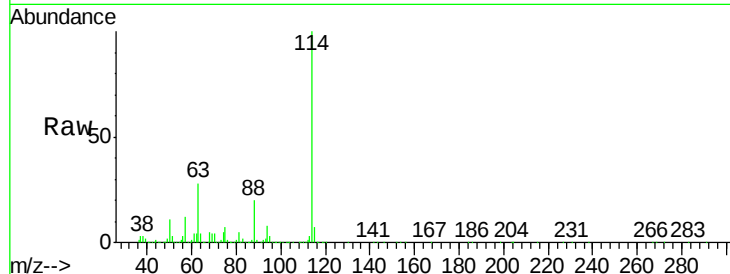
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.36 min Scan# 1950
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.8	22.0	33.0
88	19.0	15.3	22.9

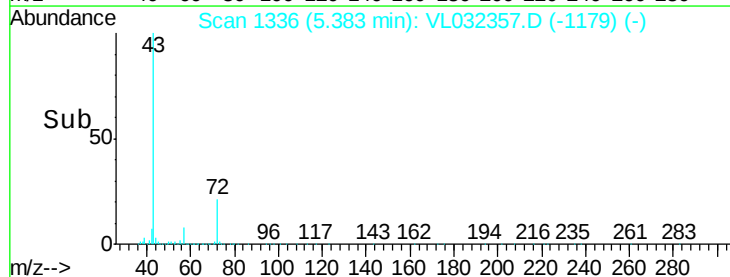
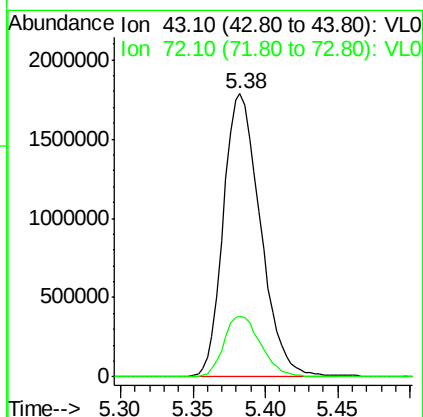
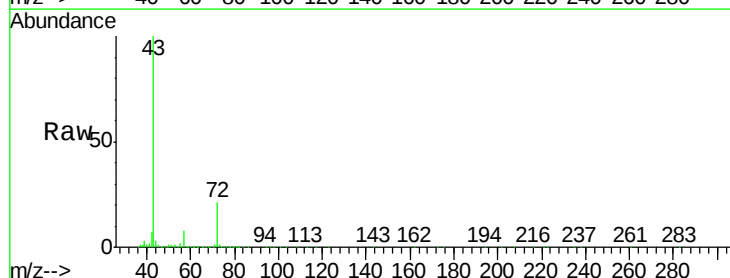
Manual Integrations
 APPROVED

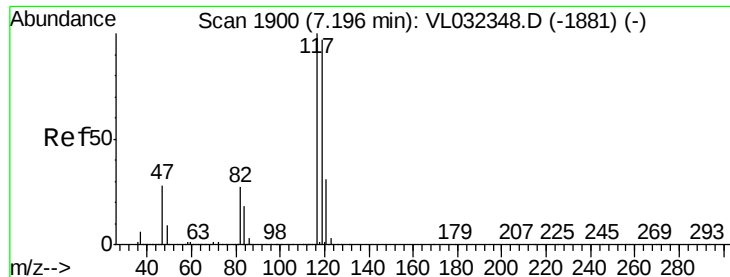
MMDadoda
 8/17/2018 2:06:39 PM



#34
 2-Butanone
 Concen: 9.62 ppbv
 RT: 5.38 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.9	26.9





#35

Carbon Tetrachloride

Concen: 10.09 ppbv

RT: 7.20 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion:117 Resp: 2856549

Ion Ratio Lower Upper

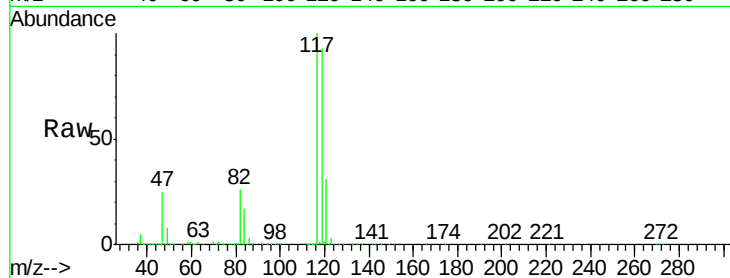
117 100

119 93.3 77.2 115.8

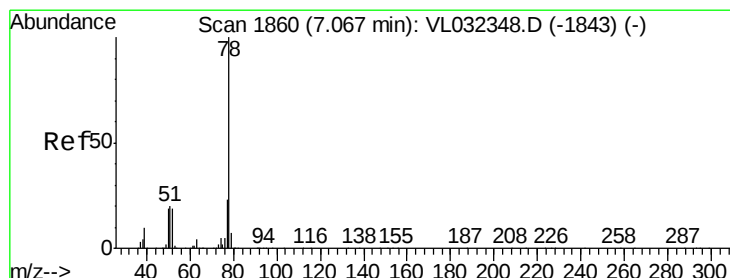
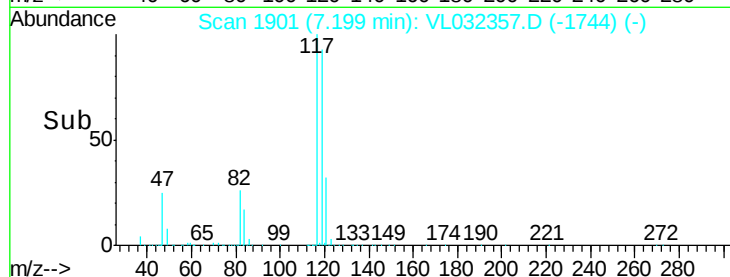
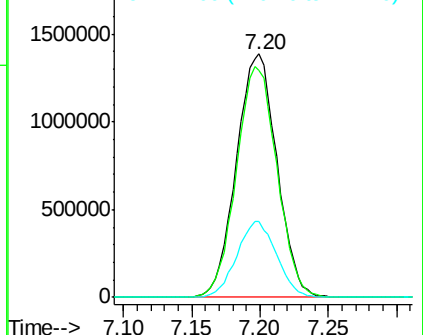
121 31.3 25.1 37.7

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.32 ppbv

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

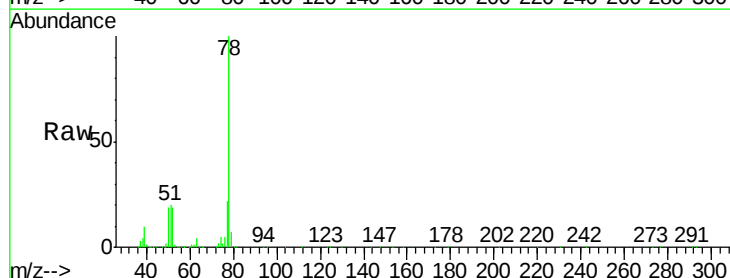
Tgt Ion: 78 Resp: 4197540

Ion Ratio Lower Upper

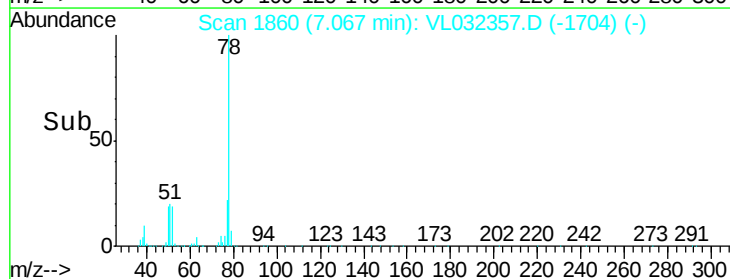
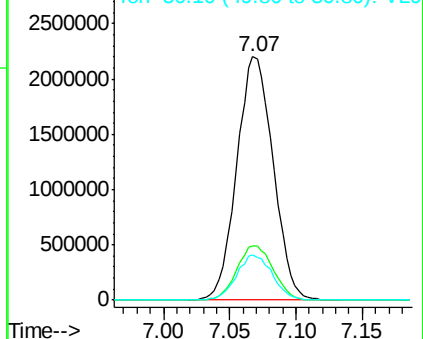
78 100

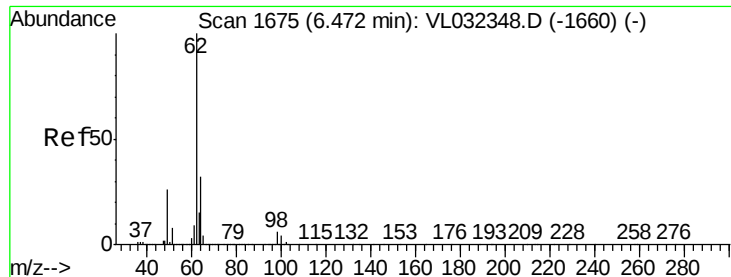
77 22.0 18.0 27.0

50 18.7 15.1 22.7



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





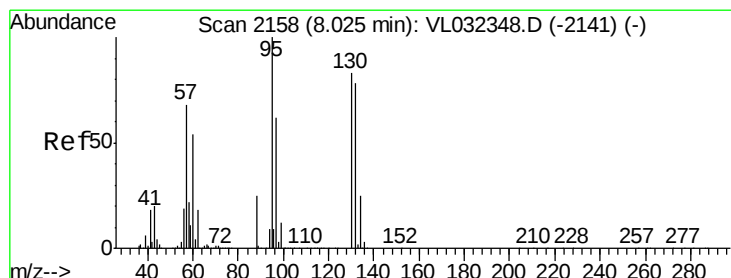
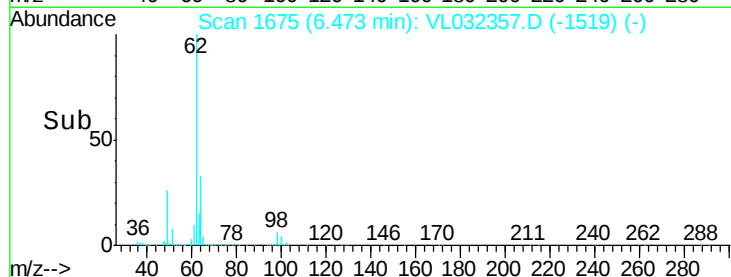
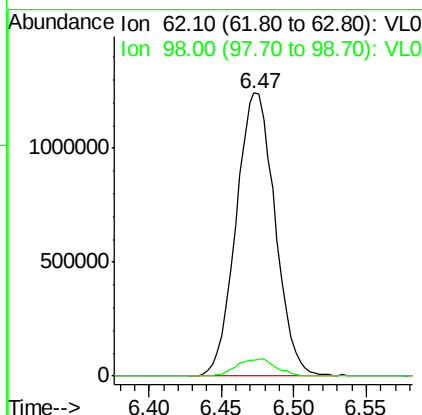
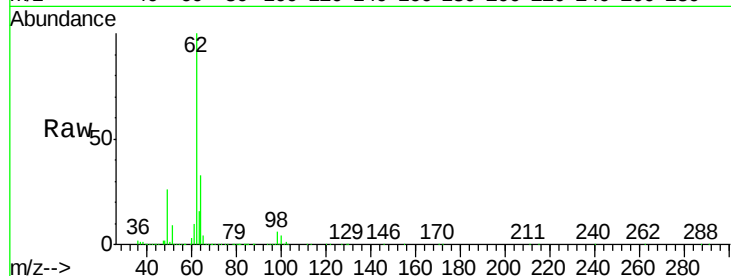
#37
 1,2-Dichloroethane
 Concen: 9.36 ppbv
 RT: 6.47 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.0	7.6

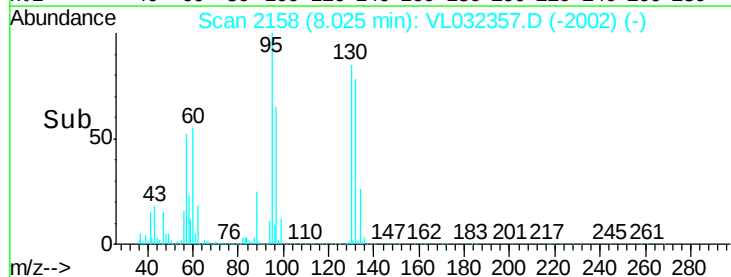
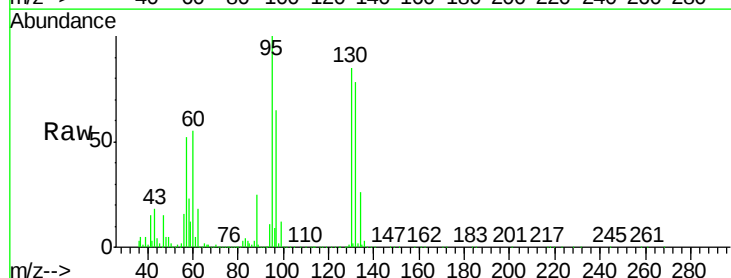
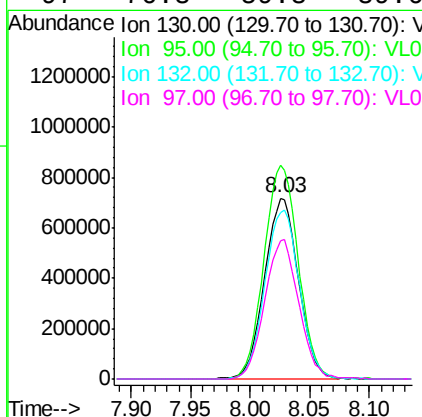
Manual Integrations
 APPROVED

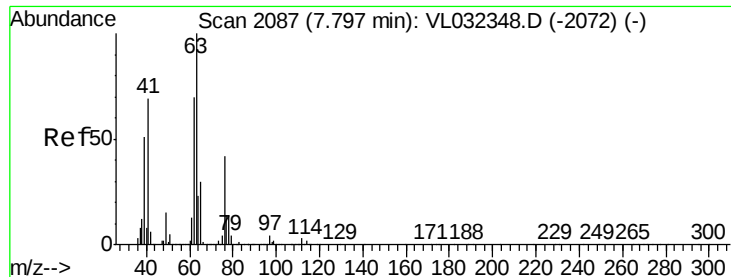
MMDadoda
 8/17/2018 2:06:39 PM



#38
 Trichloroethene
 Concen: 9.93 ppbv
 RT: 8.03 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.2	96.6	144.8
132	92.1	75.5	113.3
97	76.8	59.8	89.6





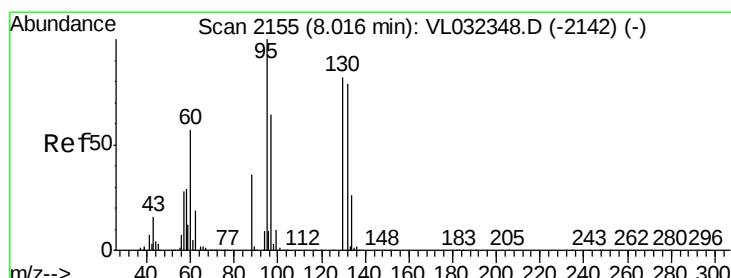
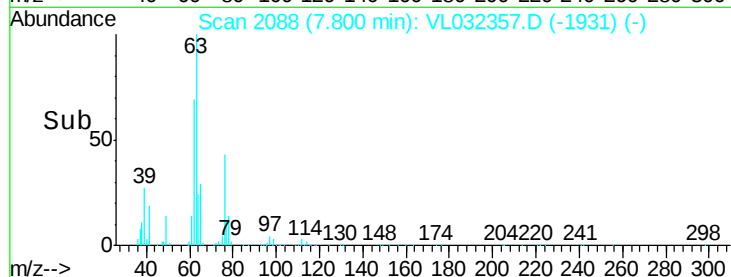
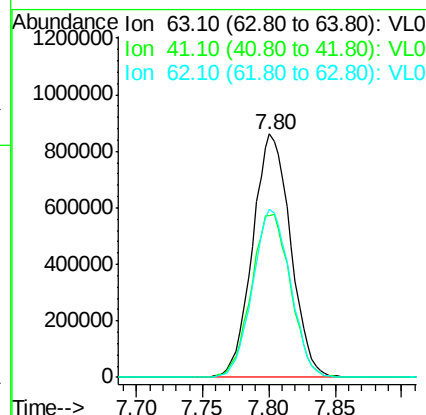
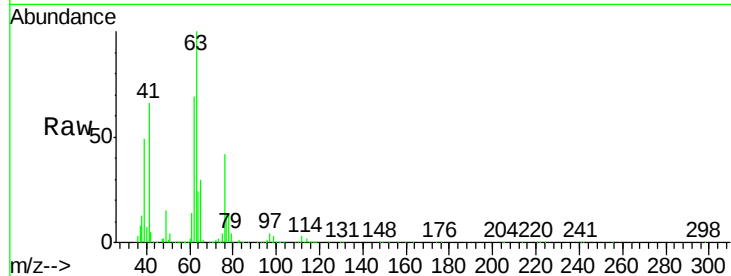
#39
 1,2-Dichloropropane
 Concen: 10.07 ppbv
 RT: 7.80 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	66.4	55.5	83.3
62	68.9	56.3	84.5

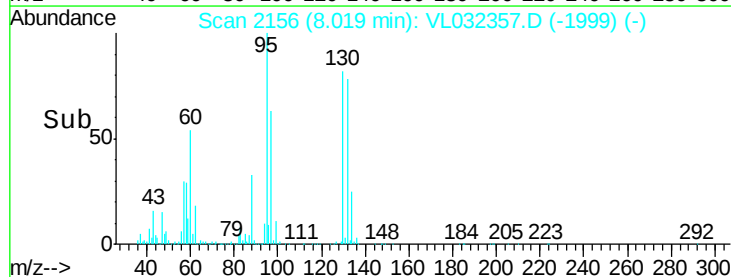
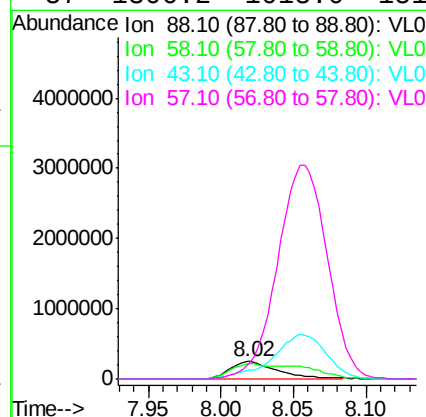
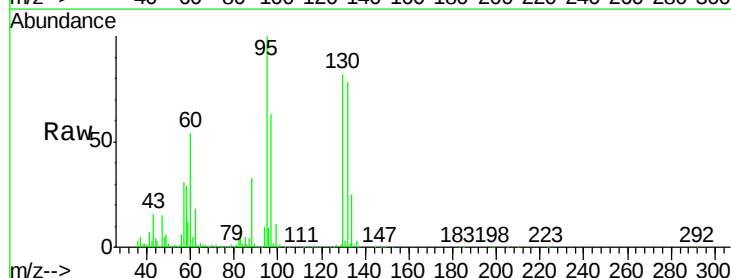
Manual Integrations
 APPROVED

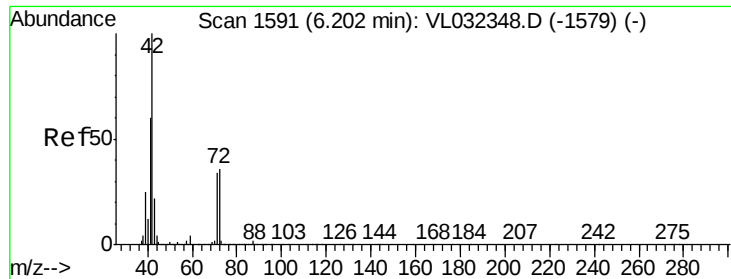
MMDadoda
 8/17/2018 2:06:39 PM



#40
 1,4-Dioxane
 Concen: 10.83 ppbv
 RT: 8.02 min Scan# 2156
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
88	100		
58	145.8	113.7	170.5
43	289.7	224.0	336.0
57	1306.2	1013.0	1519.6





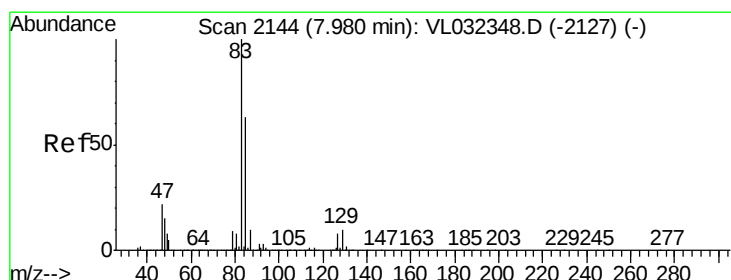
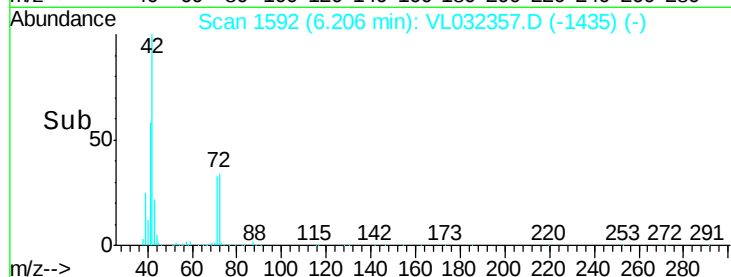
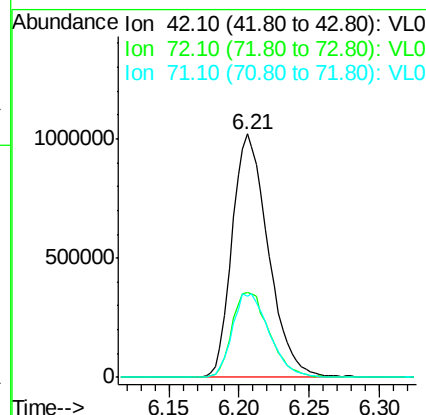
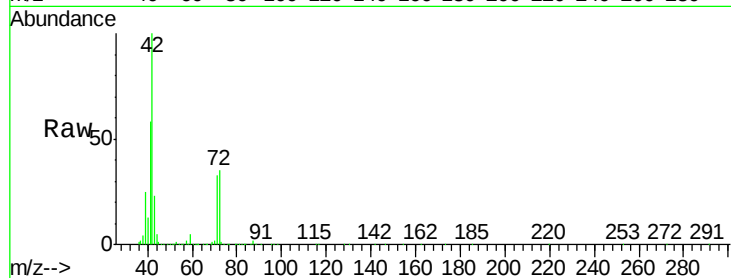
#41
Tetrahydrofuran
Concen: 10.45 ppbv
RT: 6.21 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.4	29.8	44.6
71	35.2	28.2	42.2

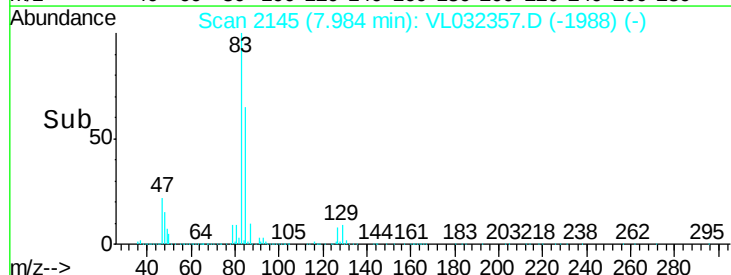
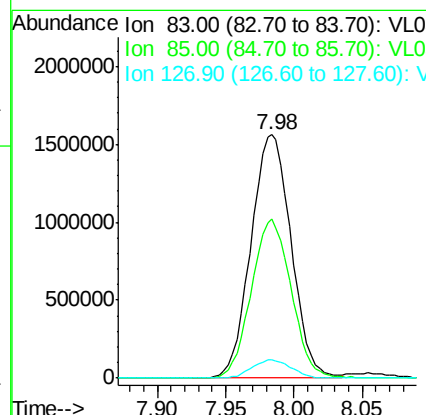
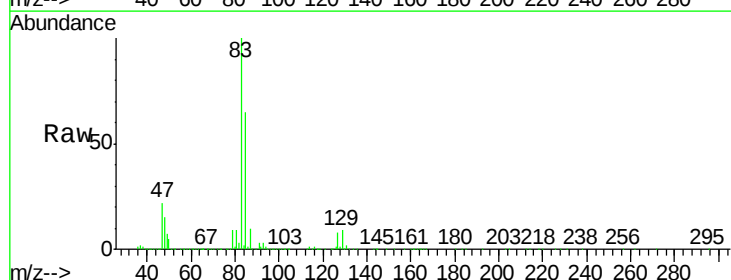
Manual Integrations
APPROVED

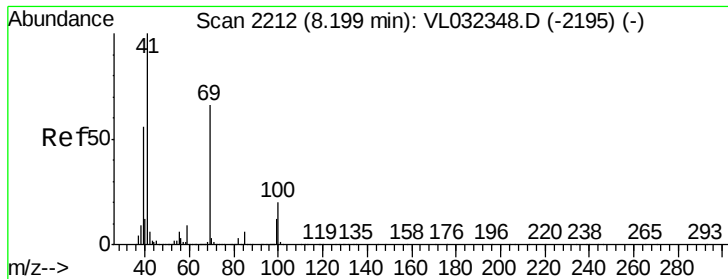
MMDadoda
8/17/2018 2:06:39 PM



#42
Bromodichloromethane
Concen: 9.89 ppbv
RT: 7.98 min Scan# 2145
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.4	75.6
127	7.6	6.1	9.1





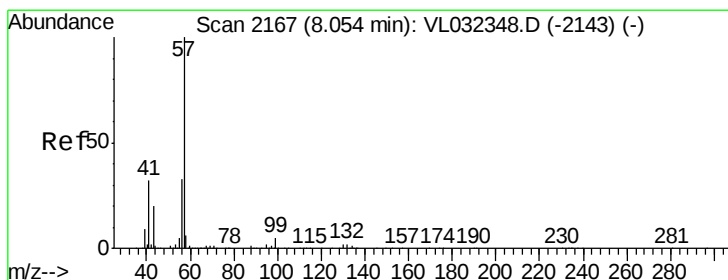
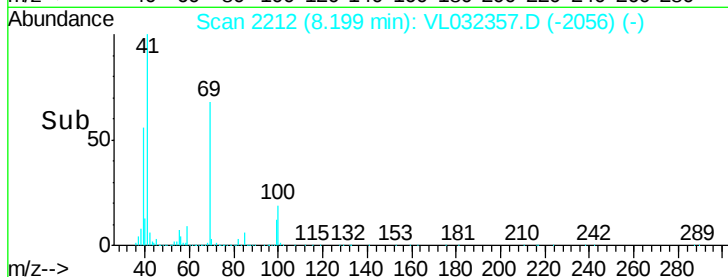
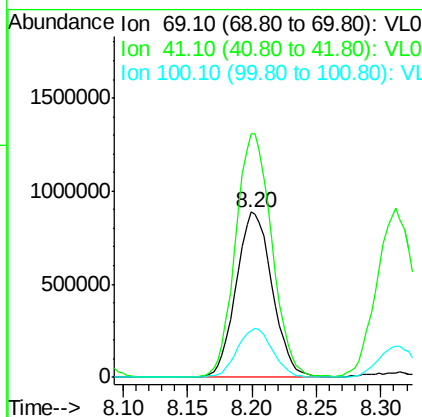
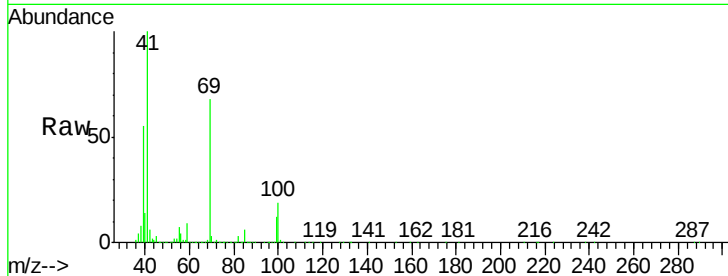
#43
Methvl Methacrilate
Concen: 10.67 ppbv
RT: 8.20 min Scan# 2212
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

Tot Ion: 69 Resp: 1729954
Ion Ratio Lower Upper
69 100
41 148.1 118.6 177.8
100 29.2 23.4 35.2

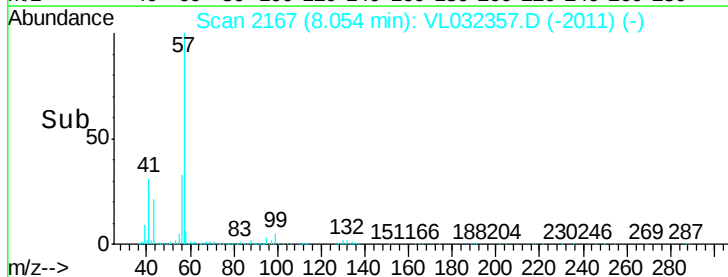
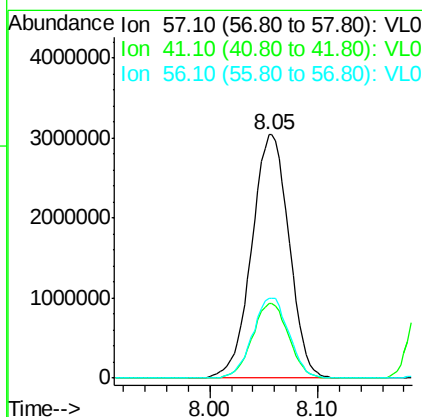
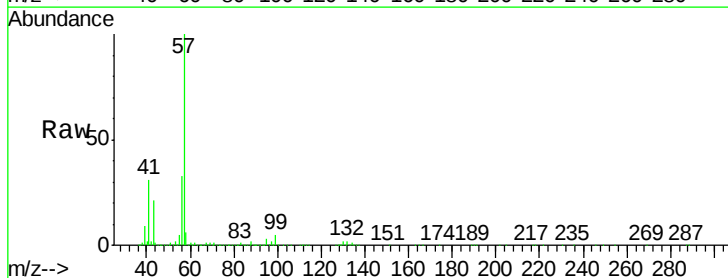
Manual Integrations
APPROVED

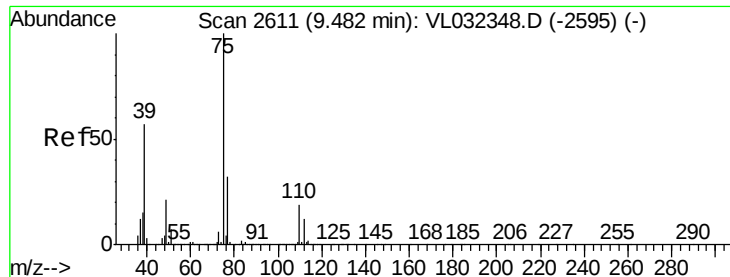
MMDadoda
8/17/2018 2:06:39 PM



#44
2,2,4-Trimethylpentane
Concen: 9.94 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion: 57 Resp: 7293604
Ion Ratio Lower Upper
57 100
41 30.0 24.3 36.5
56 32.0 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 11.43 ppbv

RT: 9.48 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 75 Resp: 2343471

Ion Ratio Lower Upper

75 100

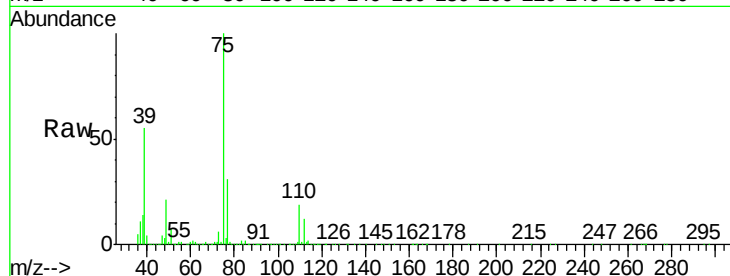
77 30.9 25.4 38.2

Manual Integrations

APPROVED

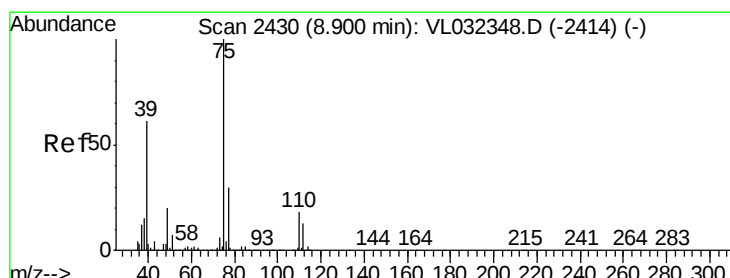
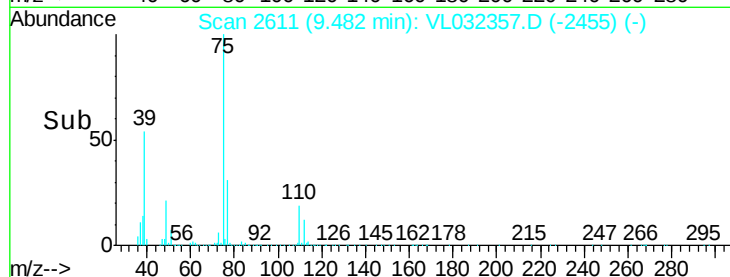
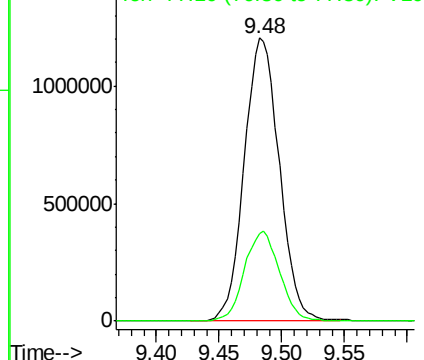
MMDadoda

8/17/2018 2:06:39 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: 11.39 ppbv

RT: 8.90 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

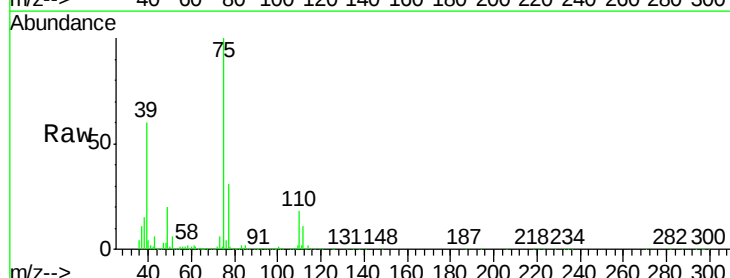
Tgt Ion: 75 Resp: 2801102

Ion Ratio Lower Upper

75 100

39 60.3 48.5 72.7

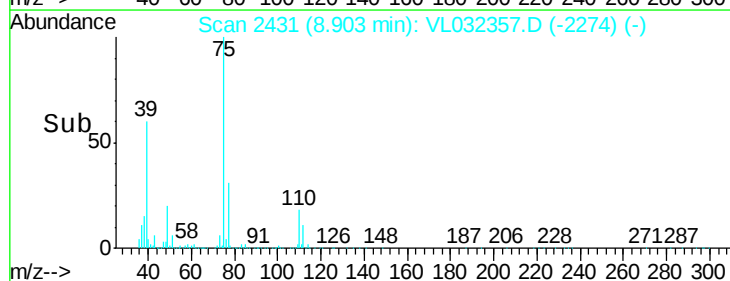
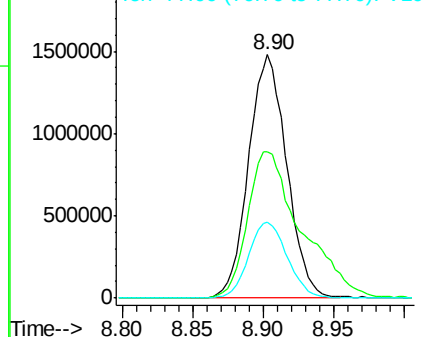
77 31.3 24.3 36.5

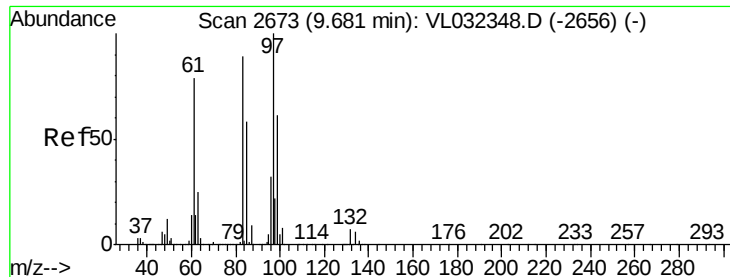


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 9.59 ppbv

RT: 9.68 min Scan# 2674

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 97 Resp: 1794717

Ion Ratio Lower Upper

97 100

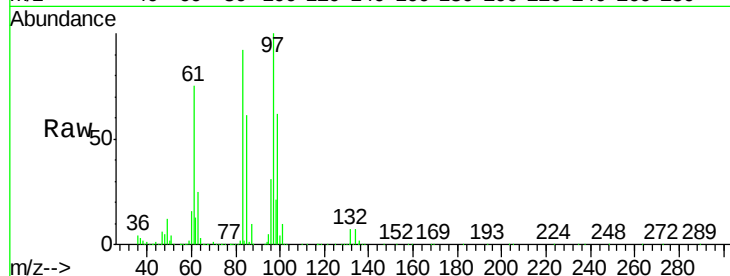
83 91.9 71.2 106.8

85 61.0 46.6 69.8

99 62.1 49.2 73.8

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM

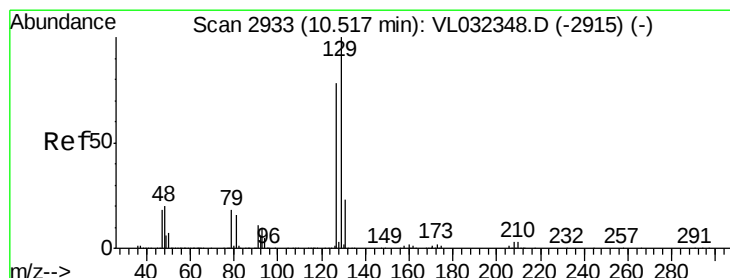
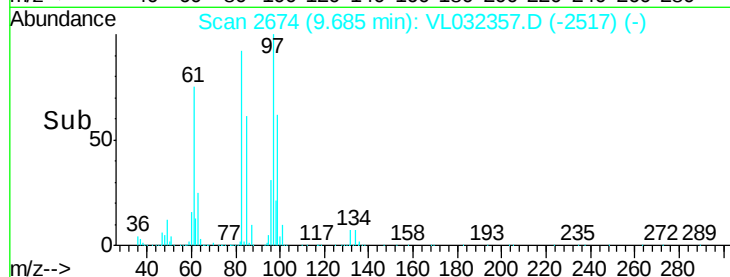
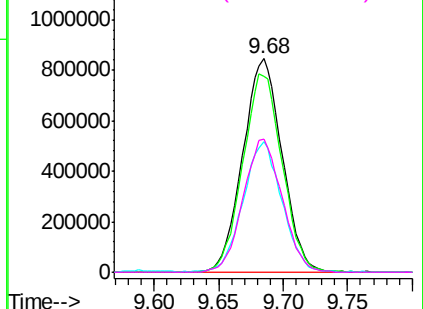


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.14 ppbv

RT: 10.52 min Scan# 2934

Delta R.T. 0.00 min

Lab File: VL032357.D

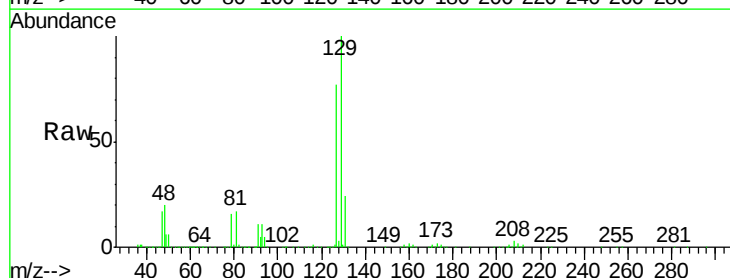
Acq: 15 Aug 2018 18:29

Tgt Ion: 129 Resp: 2536987

Ion Ratio Lower Upper

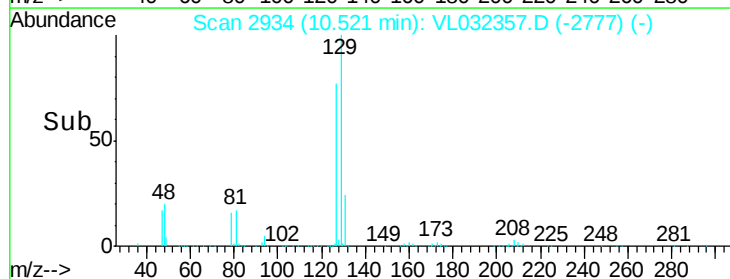
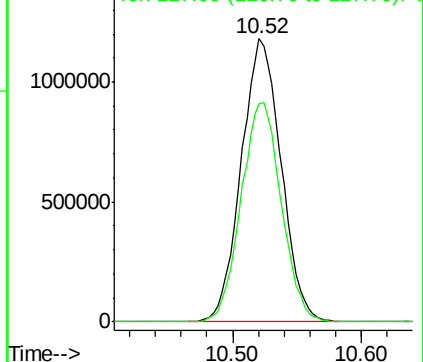
129 100

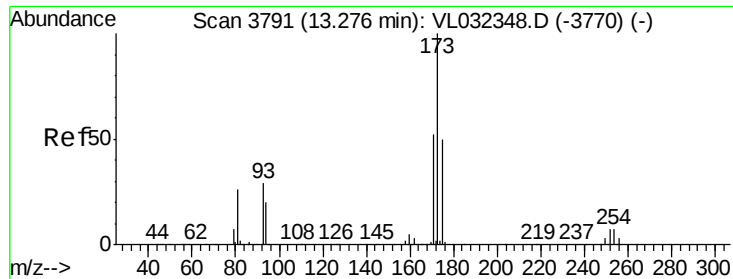
127 78.5 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





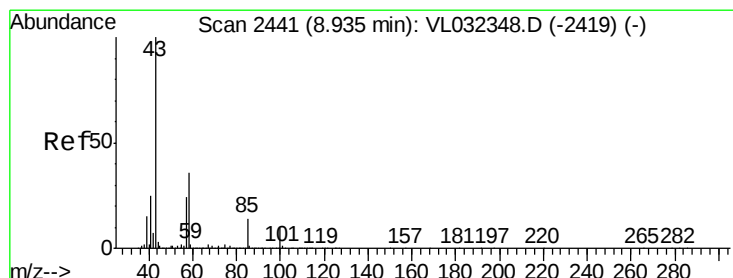
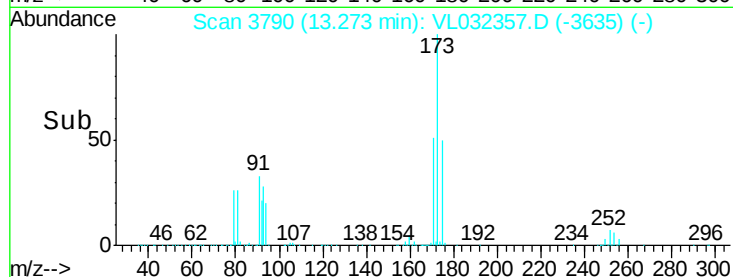
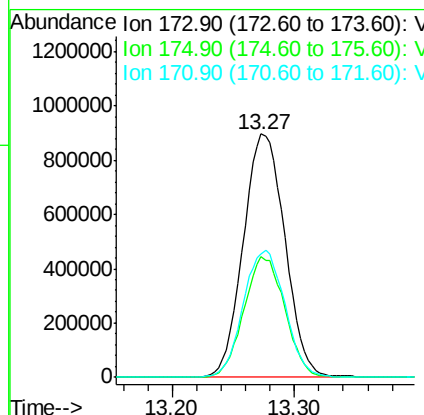
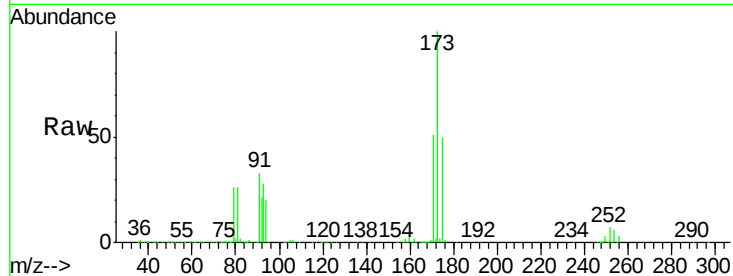
#49
Bromoform
Concen: 10.18 ppbv
RT: 13.27 min Scan# 3790
Delta R.T. -0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

Tot Ion:173 Resp: 2114309
Ion Ratio Lower Upper
173 100
175 48.8 39.3 58.9
171 52.2 41.9 62.9

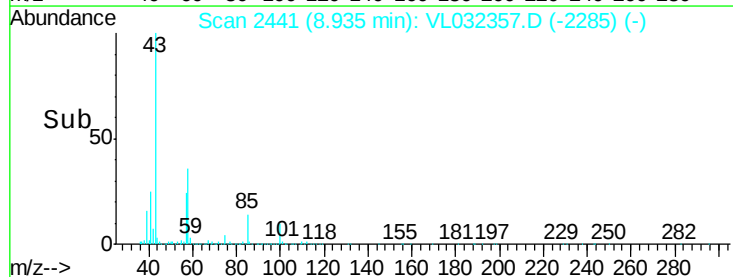
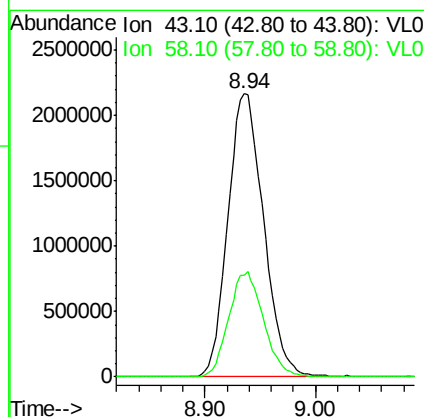
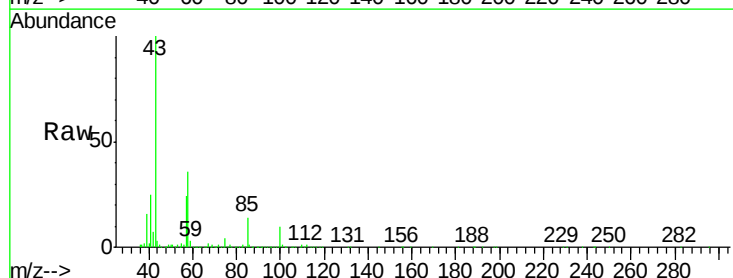
Manual Integrations
APPROVED

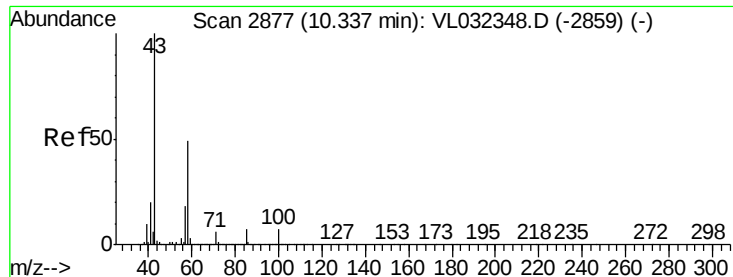
MMDadoda
8/17/2018 2:06:39 PM



#50
4-Methyl-2-Pentanone
Concen: 10.28 ppbv
RT: 8.94 min Scan# 2441
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion: 43 Resp: 4851767
Ion Ratio Lower Upper
43 100
58 36.4 28.9 43.3





#51

2-Hexanone

Concen: 11.84 ppbv

RT: 10.34 min Scan# 2878

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 43 Resp: 3921356

Ion Ratio Lower Upper

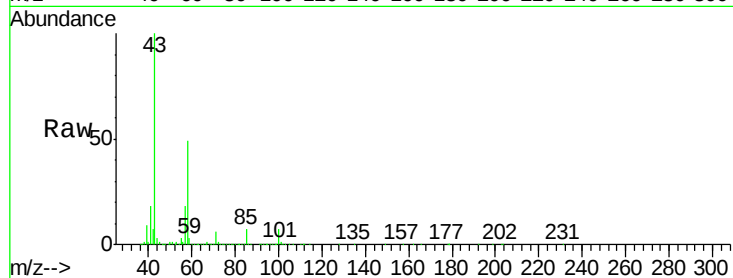
43 100

58 48.4 39.5 59.3

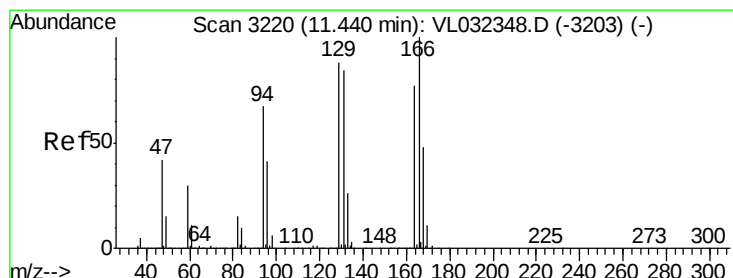
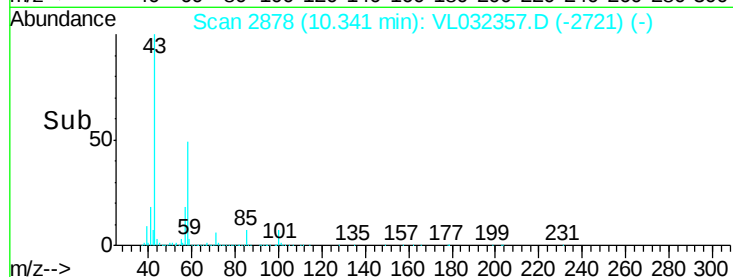
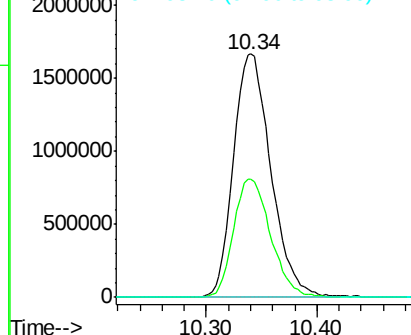
98 0.5 0.3 0.5#

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 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: 10.04 ppbv

RT: 11.44 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Tgt Ion:164 Resp: 1205238

Ion Ratio Lower Upper

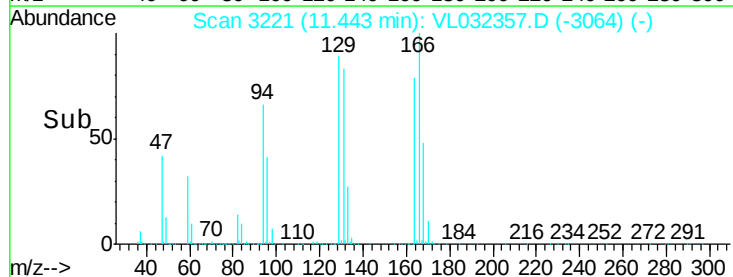
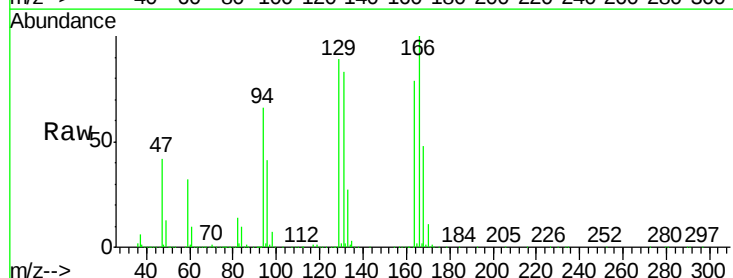
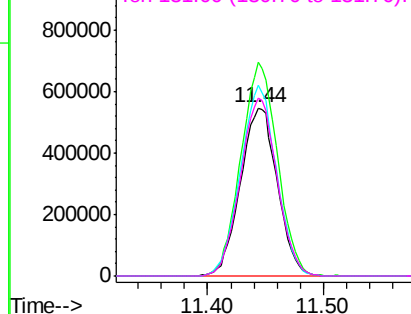
164 100

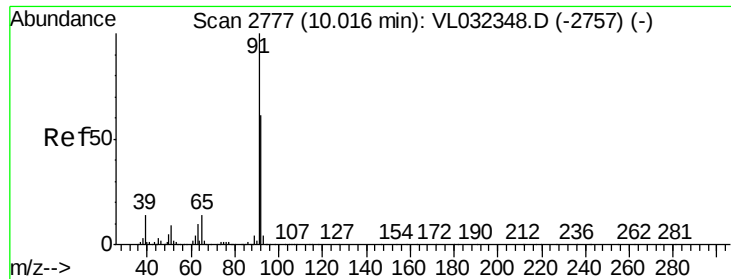
166 127.2 103.5 155.3

129 113.3 90.9 136.3

131 105.8 86.7 130.1

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: 11.13 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 91 Resp: 4964722

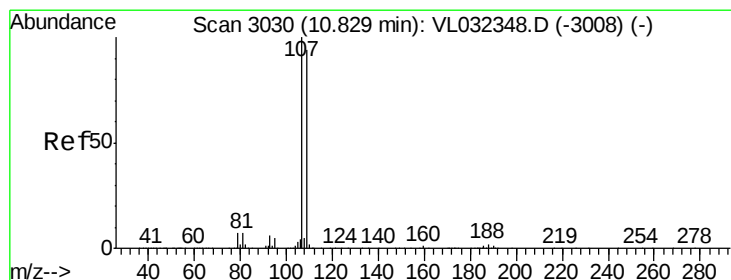
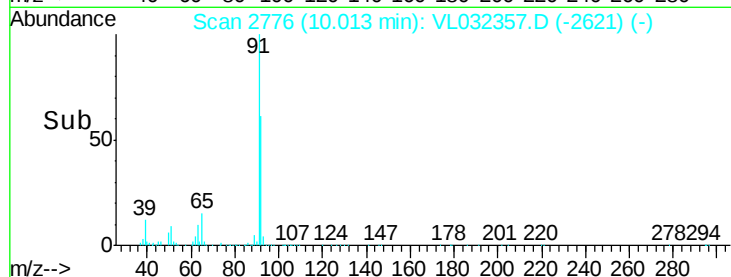
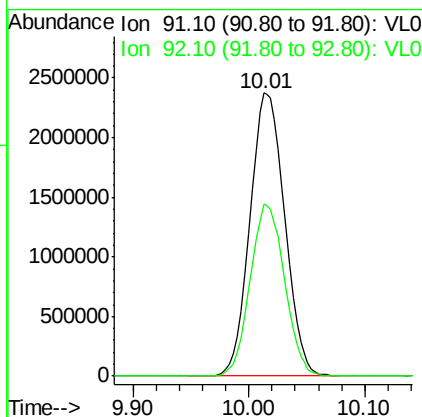
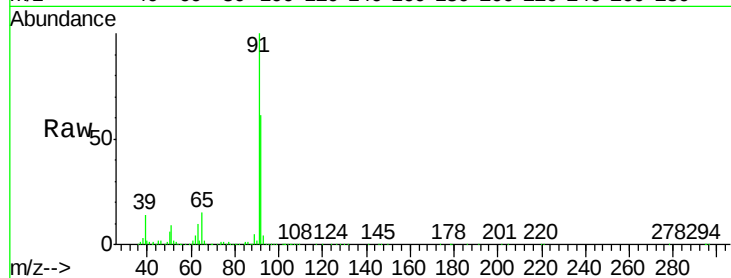
Ion Ratio Lower Upper

91 100

92 60.3 48.7 73.1

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



#54

1,2-Dibromoethane

Concen: 10.04 ppbv

RT: 10.83 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VL032357.D

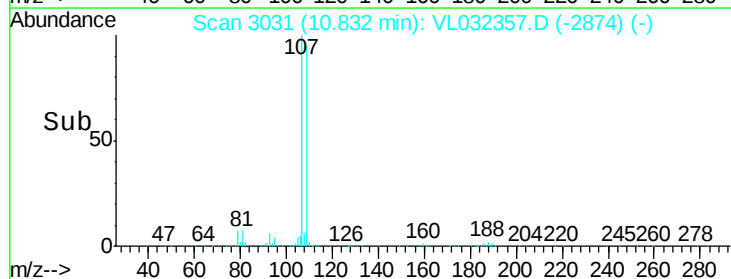
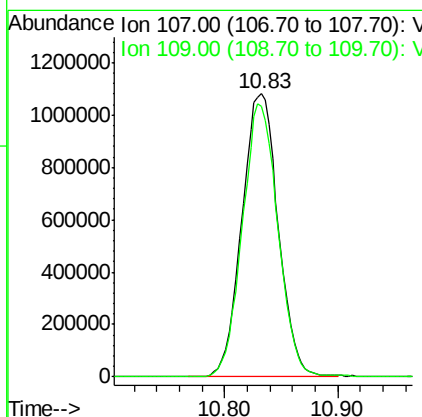
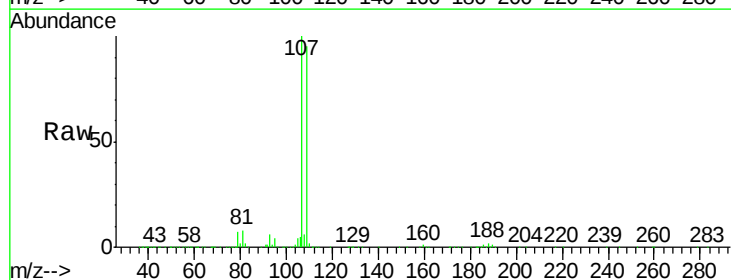
Acq: 15 Aug 2018 18:29

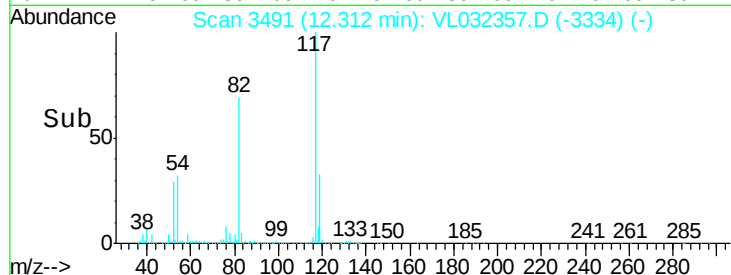
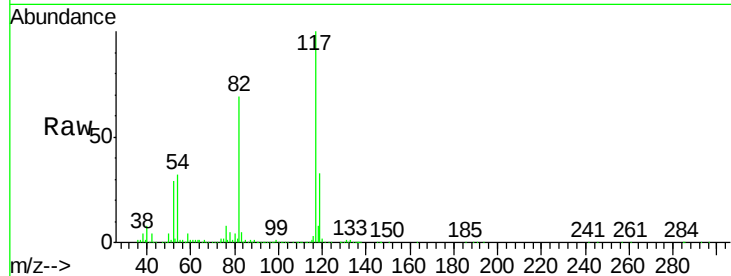
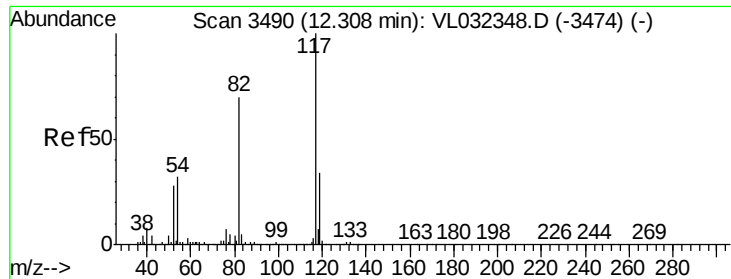
Tgt Ion: 107 Resp: 2412899

Ion Ratio Lower Upper

107 100

109 95.4 74.9 112.3





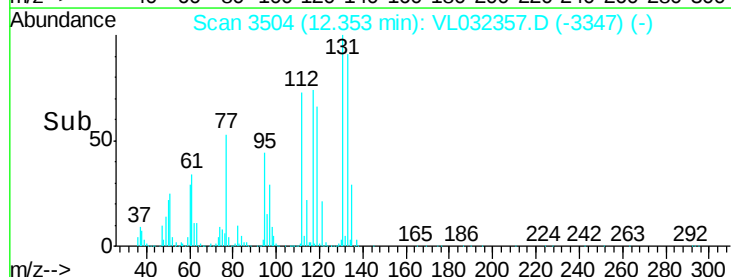
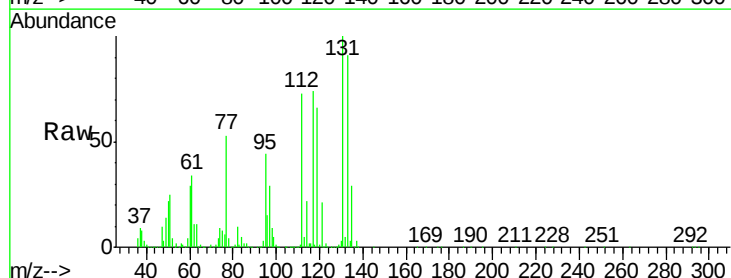
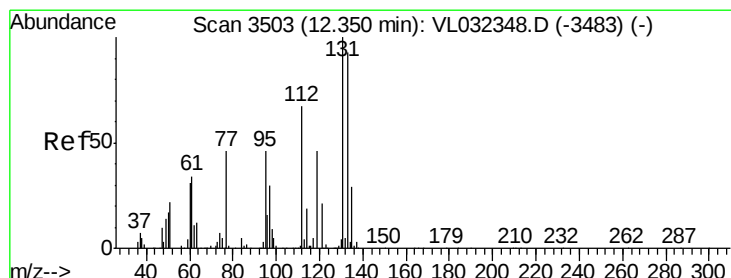
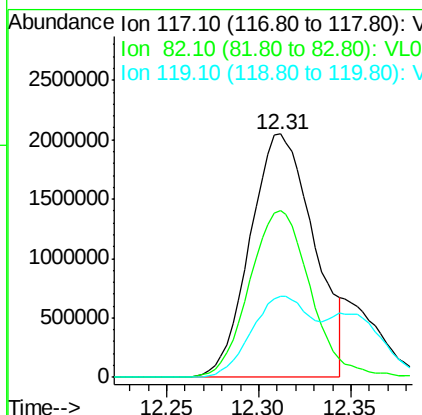
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.31 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tot Ion:117 Resp: 4921874
Ion Ratio Lower Upper
117 100
82 66.1 55.1 82.7
119 54.7 46.0 69.0

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

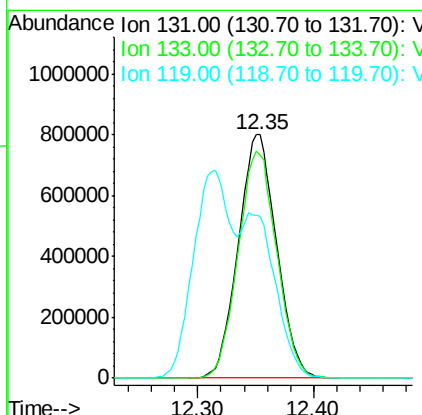
Manual Integrations
APPROVED

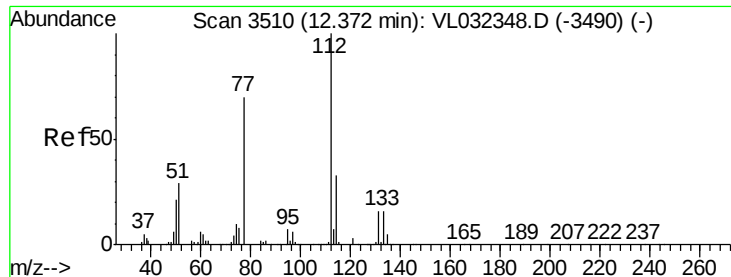
MMDadoda
8/17/2018 2:06:39 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.99 ppbv
RT: 12.35 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion:131 Resp: 1829455
Ion Ratio Lower Upper
131 100
133 94.5 75.7 113.5
119 147.1 116.0 174.0





#57

Chlorobenzene

Concen: 8.95 ppbv

RT: 12.37 min Scan# 3510

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion:112 Resp: 3314778

Ion Ratio Lower Upper

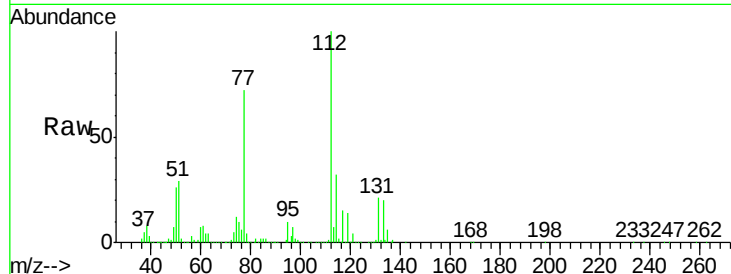
112 100

77 71.3 56.6 84.8

114 32.0 29.4 36.0

Manual Integrations
APPROVED

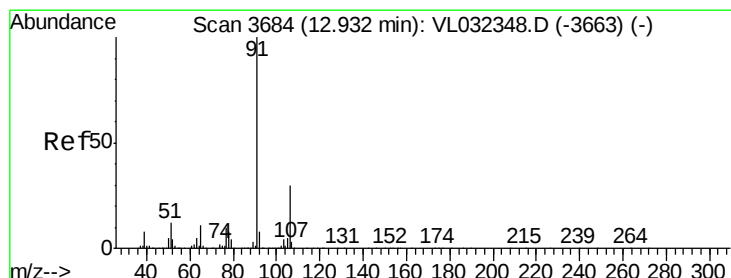
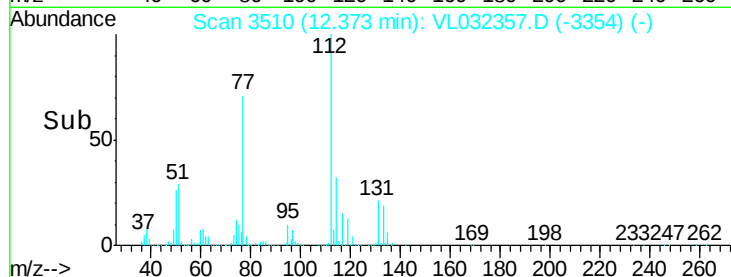
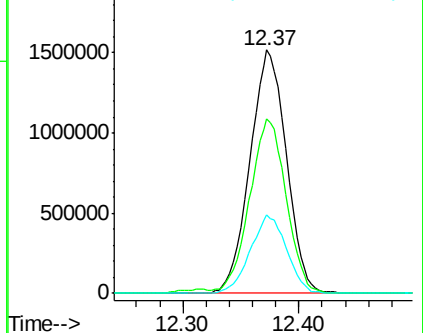
MMDadoda
8/17/2018 2:06:39 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.12 ppbv

RT: 12.94 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VL032357.D

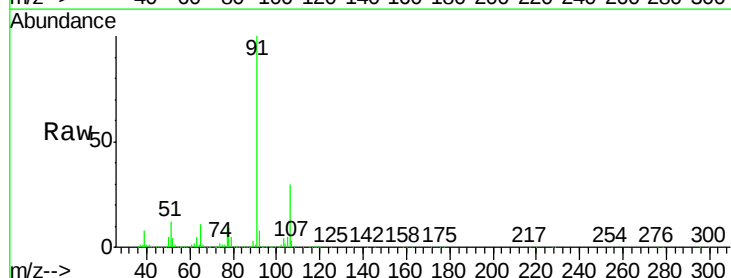
Acq: 15 Aug 2018 18:29

Tgt Ion: 91 Resp: 5992776

Ion Ratio Lower Upper

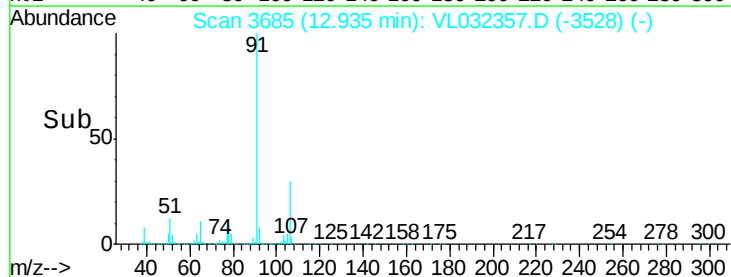
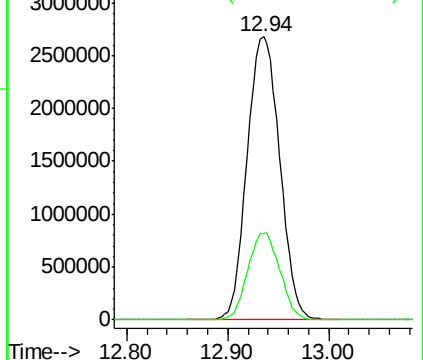
91 100

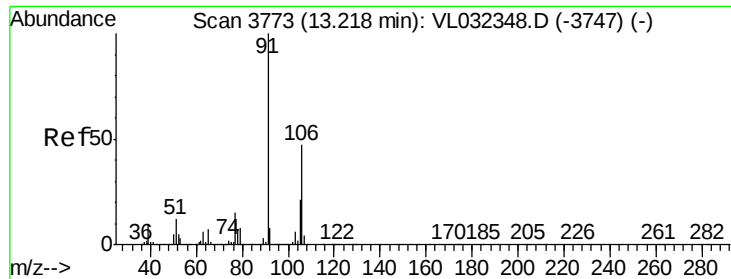
106 30.3 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





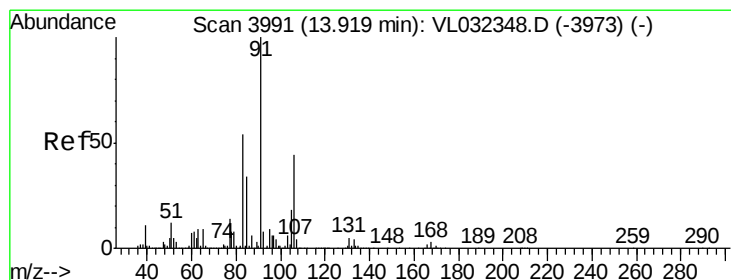
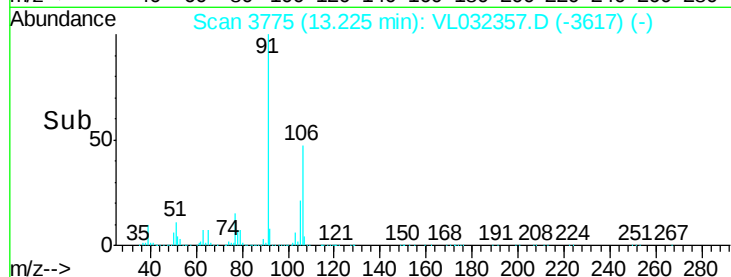
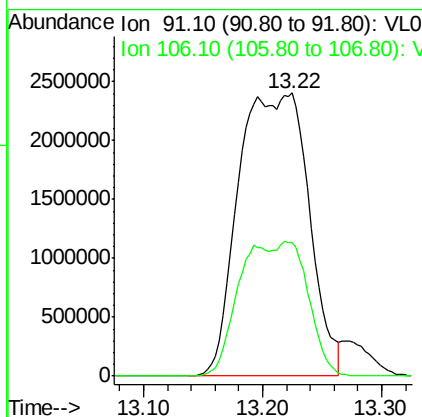
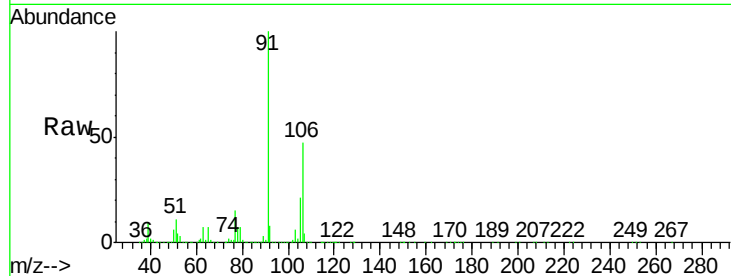
#59
m/p-Xylene
Concen: 19.45 ppbv m
RT: 13.22 min Scan# 3775
Delta R.T. 0.01 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

Tot Ion: 91 Resp: 9784423
Ion Ratio Lower Upper
91 100
106 46.2 37.0 55.4

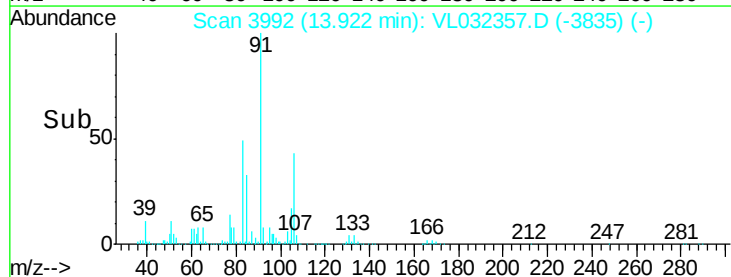
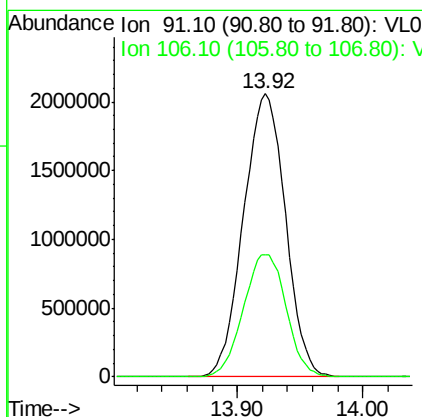
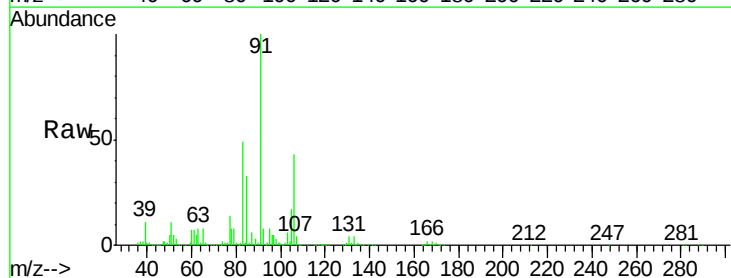
Manual Integrations
APPROVED

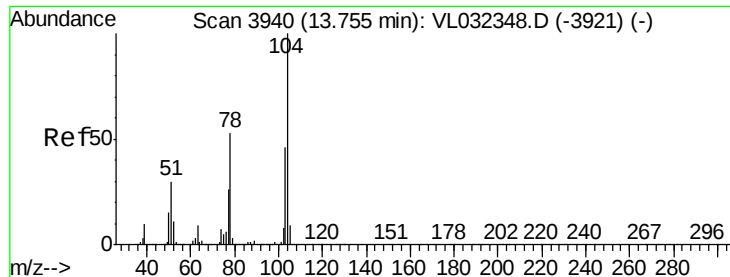
MMDadoda
8/17/2018 2:06:39 PM



#60
o-Xylene
Concen: 9.68 ppbv
RT: 13.92 min Scan# 3992
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion: 91 Resp: 4783603
Ion Ratio Lower Upper
91 100
106 44.2 22.3 66.8





#61

Stvrene

Concen: 10.85 ppbv

RT: 13.76 min Scan# 3941

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion:104 Resp: 3750277

Ion Ratio Lower Upper

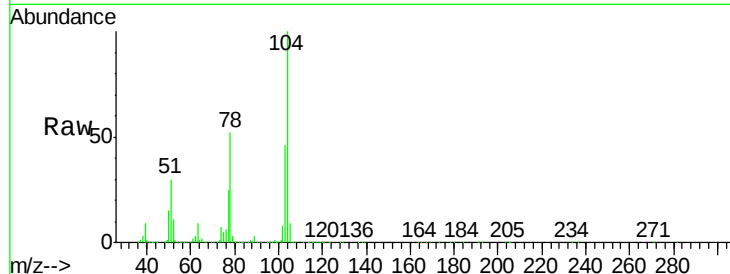
104 100

78 52.4 42.6 64.0

103 46.9 38.0 57.0

Manual Integrations
APPROVED

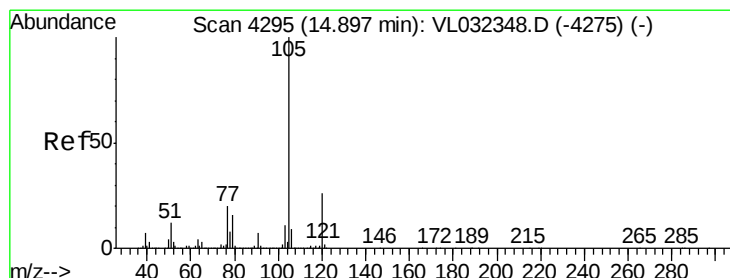
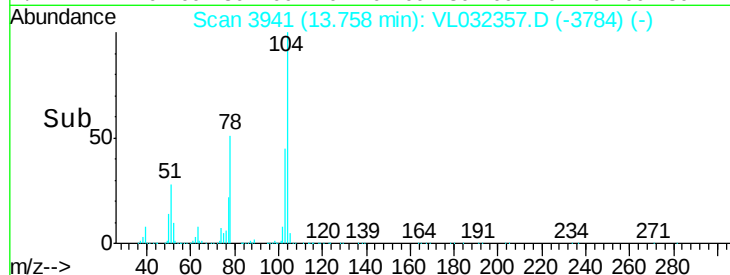
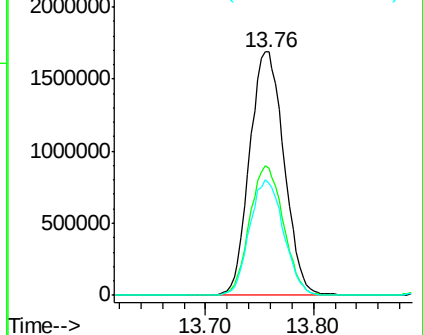
MMDadoda
8/17/2018 2:06:39 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.52 ppbv

RT: 14.90 min Scan# 4296

Delta R.T. 0.00 min

Lab File: VL032357.D

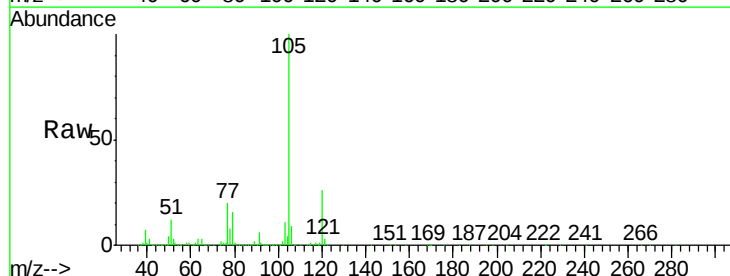
Acq: 15 Aug 2018 18:29

Tgt Ion:105 Resp: 6700951

Ion Ratio Lower Upper

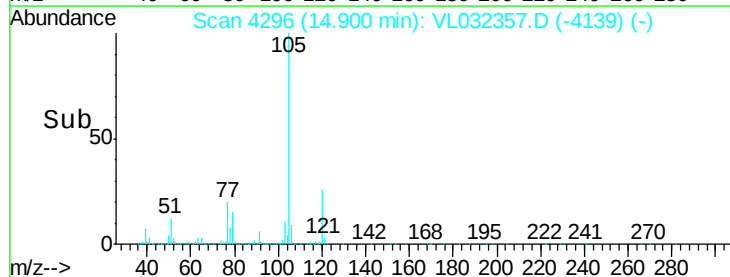
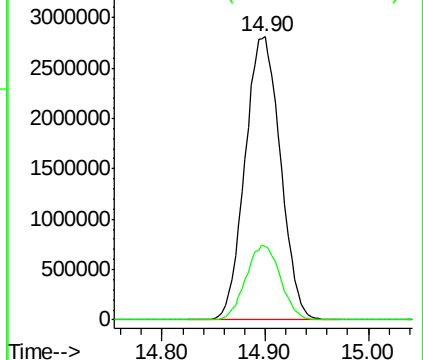
105 100

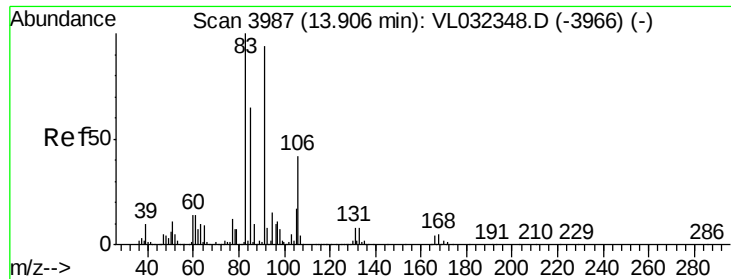
120 25.8 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





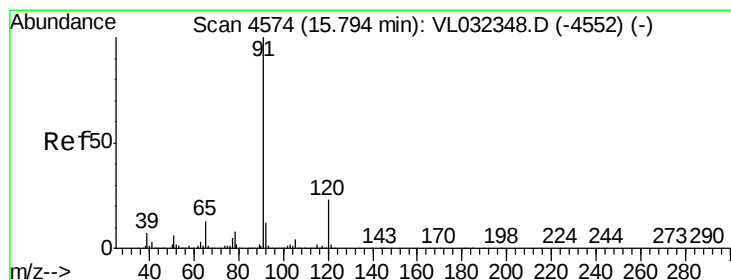
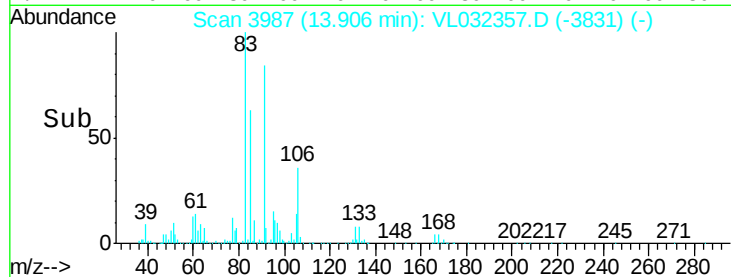
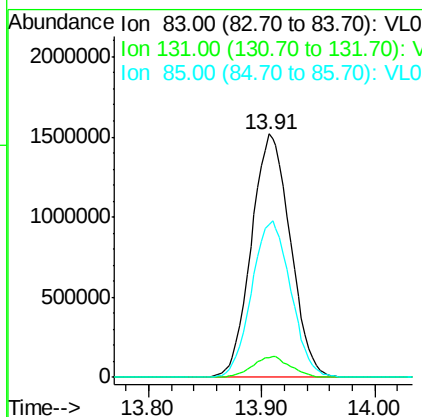
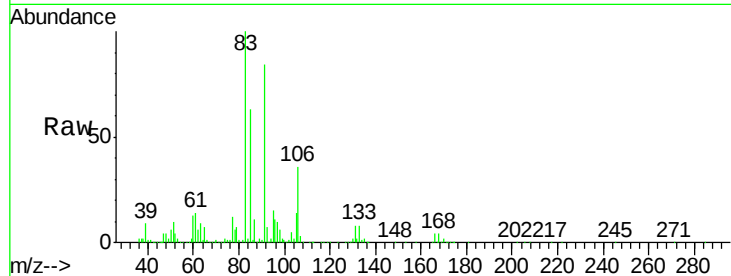
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.74 ppbv
 RT: 13.91 min Scan# 3987
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion	83	Resp	3634191
Ion Ratio	Lower	Upper	
83	100		
131	8.4	4.3	12.8
85	64.6	32.4	97.2

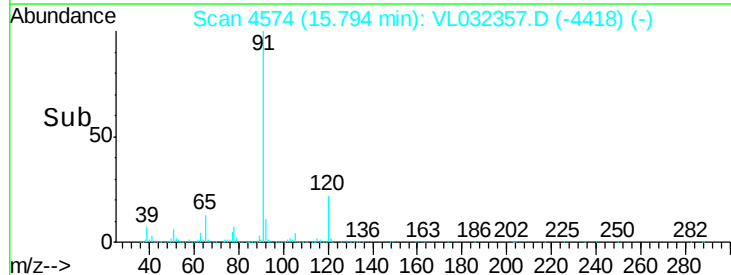
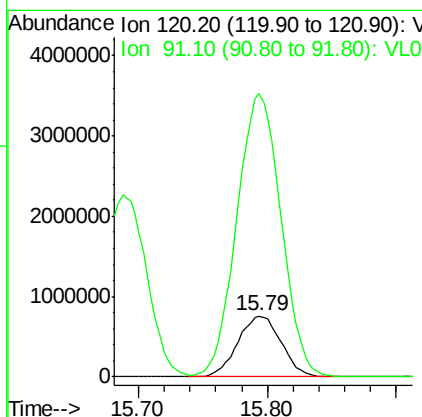
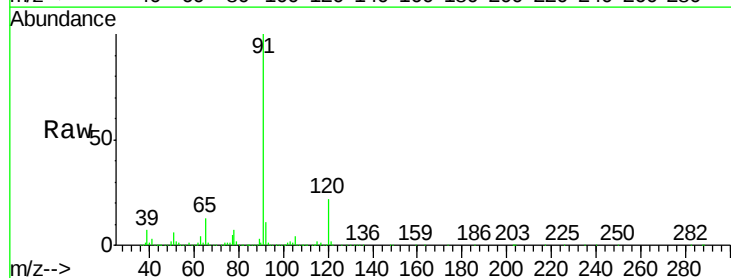
Manual Integrations
 APPROVED

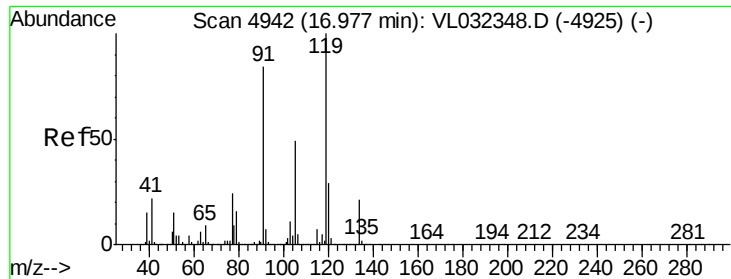
MMDadoda
 8/17/2018 2:06:39 PM



#64
 n-propylbenzene
 Concen: 9.74 ppbv
 RT: 15.79 min Scan# 4574
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Tgt Ion	120	Resp	1774673
Ion Ratio	Lower	Upper	
120	100		
91	474.8	382.2	573.2





#65

tert-Butylbenzene

Concen: 9.21 ppbv

RT: 16.98 min Scan# 4943

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion:119 Resp: 5536485

Ion Ratio Lower Upper

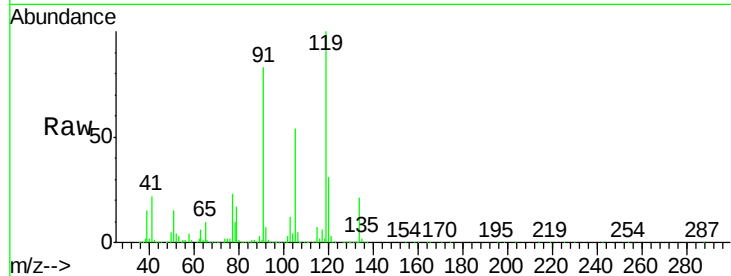
119 100

91 83.9 67.4 101.0

134 19.9 15.8 23.6

Manual Integrations
APPROVED

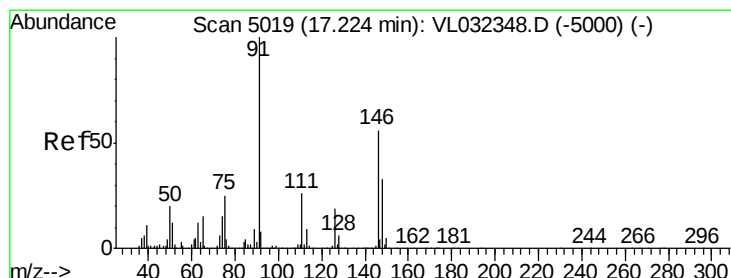
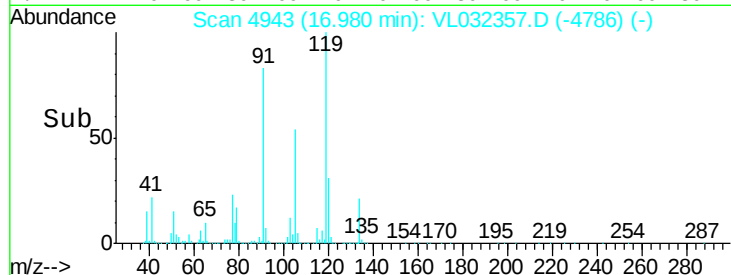
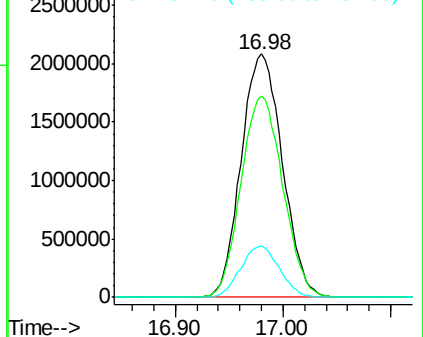
MMDadoda
8/17/2018 2:06:39 PM



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: 10.26 ppbv

RT: 17.23 min Scan# 5020

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

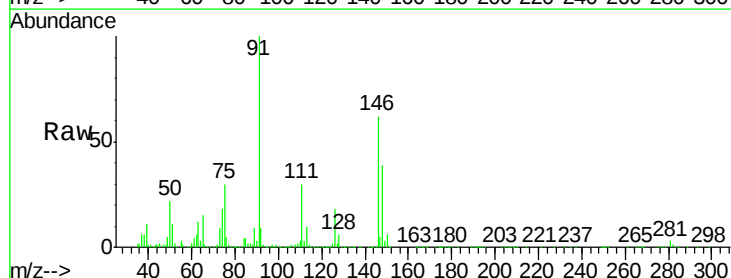
Tgt Ion: 91 Resp: 3653375

Ion Ratio Lower Upper

91 100

126 17.4 14.2 21.4

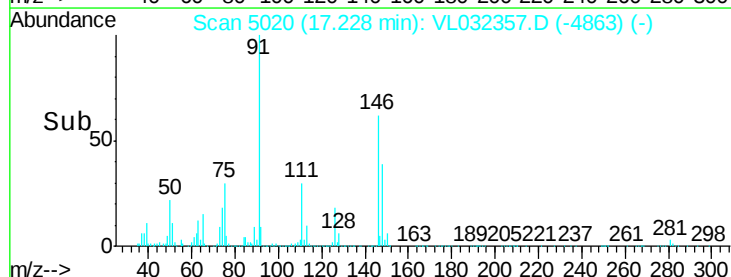
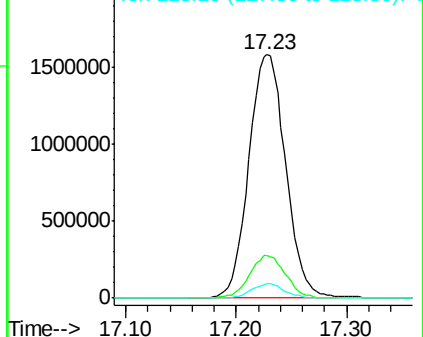
128 5.5 4.5 6.7

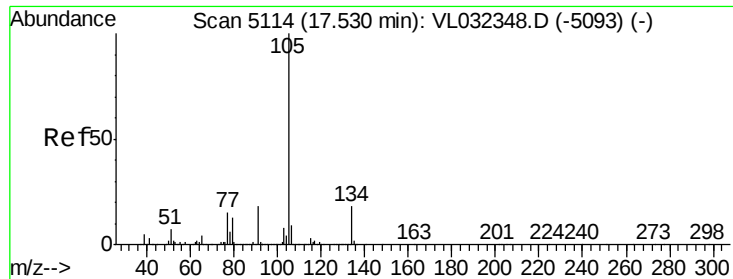


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.33 ppbv

RT: 17.53 min Scan# 5114

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion:105 Resp: 8340319

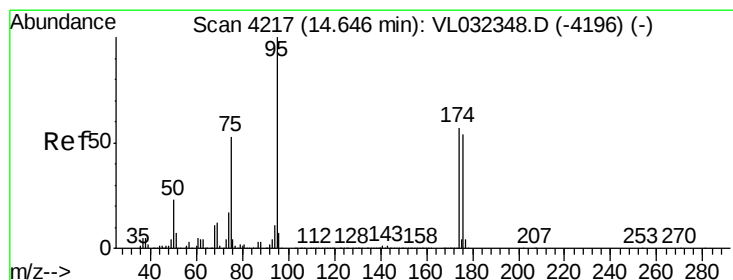
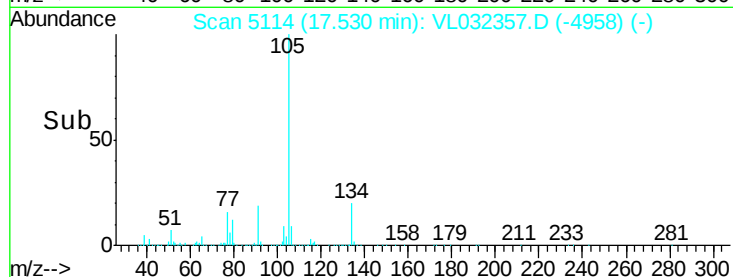
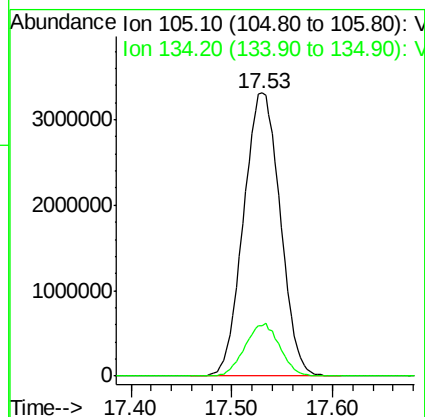
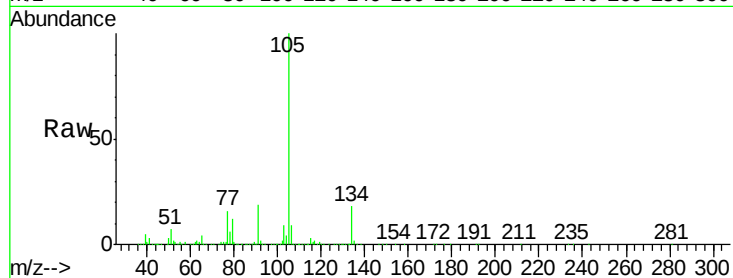
Ion Ratio Lower Upper

105 100

134 17.7 14.4 21.6

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.90 ppbv

RT: 14.65 min Scan# 4218

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

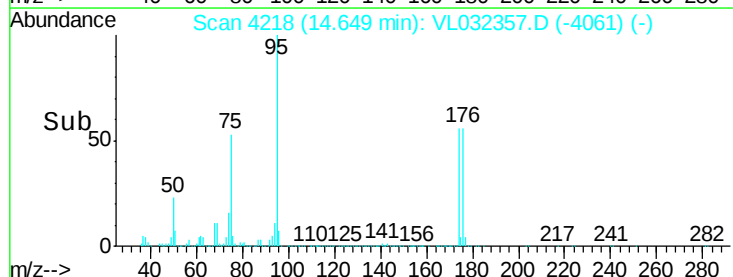
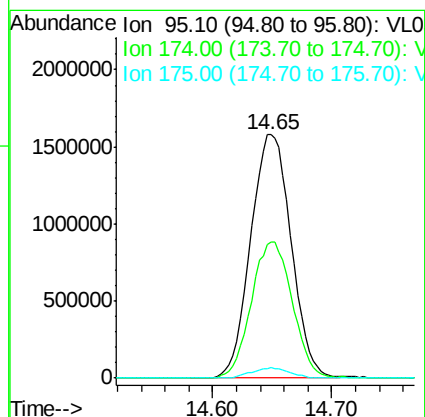
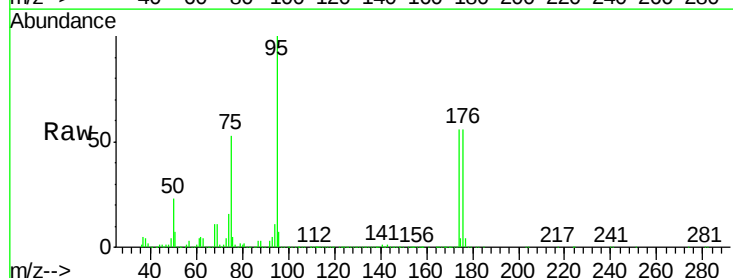
Tgt Ion: 95 Resp: 3718364

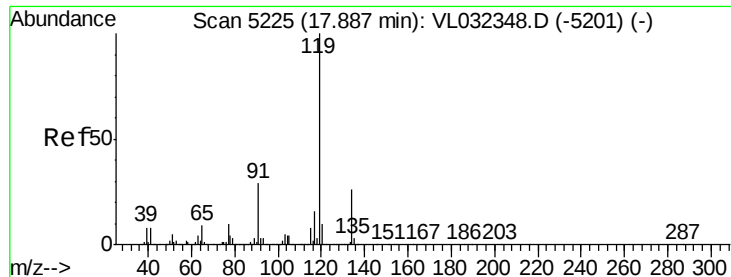
Ion Ratio Lower Upper

95 100

174 57.0 46.2 69.4

175 4.1 3.4 5.0





#69

p-Isopropyltoluene

Concen: 9.78 ppbv

RT: 17.89 min Scan# 5225

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 119 Resp: 6689693

Ion Ratio Lower Upper

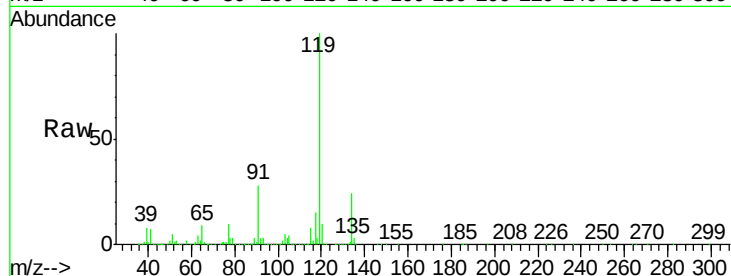
119 100

134 25.3 20.4 30.6

91 28.9 23.6 35.4

Manual Integrations
APPROVED

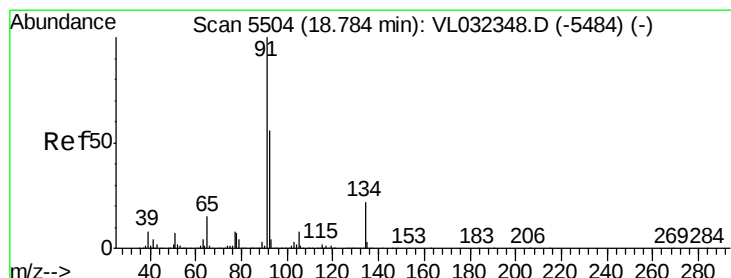
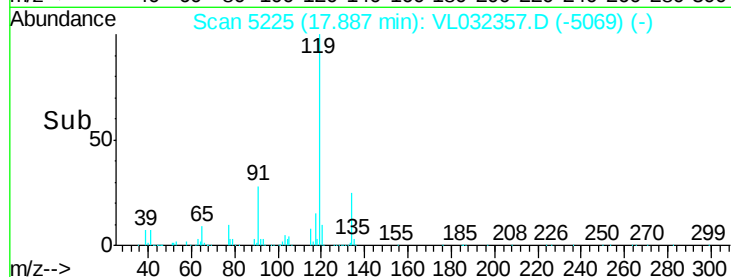
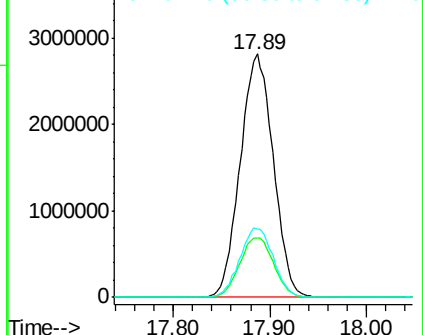
MMDadoda
8/17/2018 2:06:39 PM



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.89 ppbv

RT: 18.78 min Scan# 5504

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

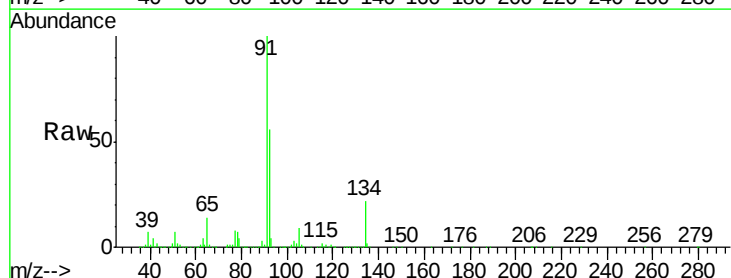
Tgt Ion: 91 Resp: 7416567

Ion Ratio Lower Upper

91 100

92 54.7 43.9 65.9

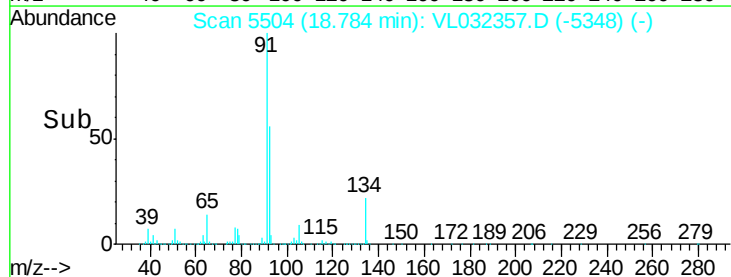
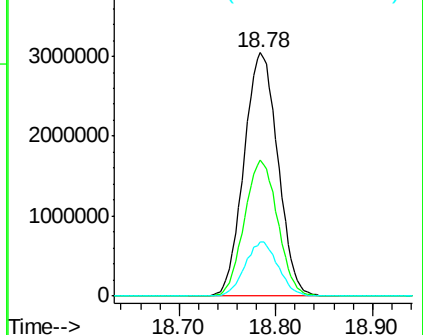
134 21.6 17.3 25.9

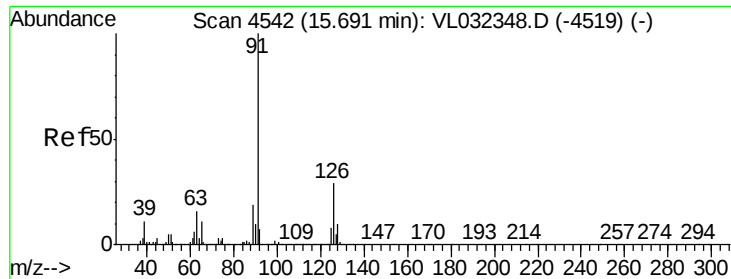


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.78 ppbv

RT: 15.69 min Scan# 4541

Delta R.T. -0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion: 91 Resp: 5326548

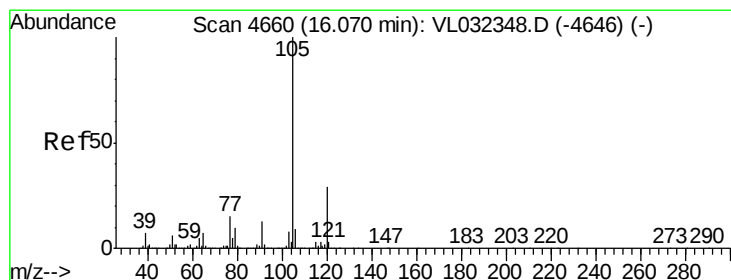
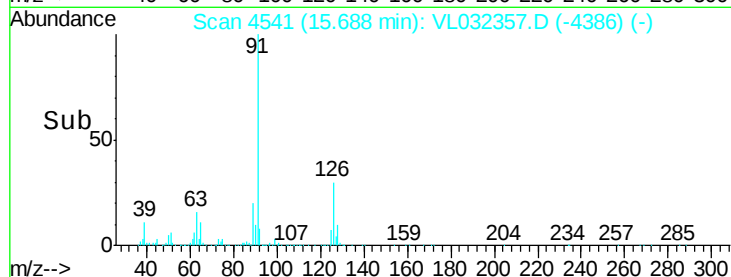
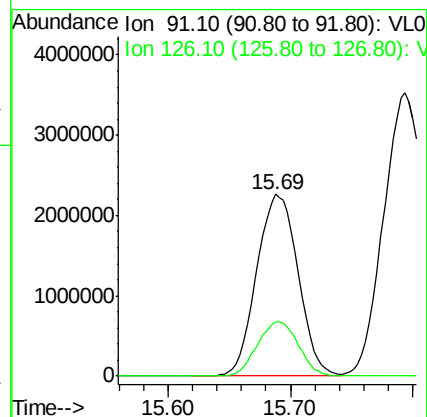
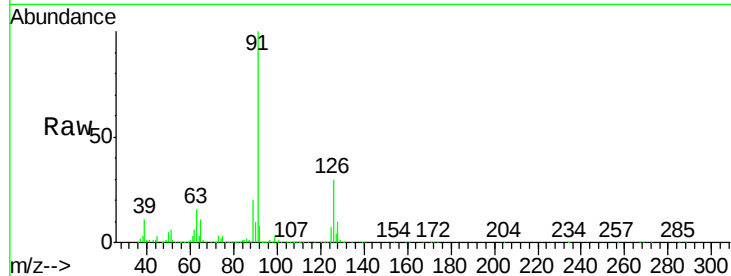
Ion Ratio Lower Upper

91 100

126 29.7 11.8 47.2

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM



#72

4-Ethyltoluene

Concen: 10.12 ppbv

RT: 16.07 min Scan# 4661

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Tgt Ion:105 Resp: 5579881

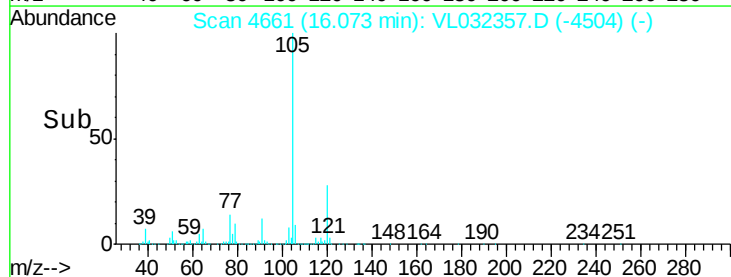
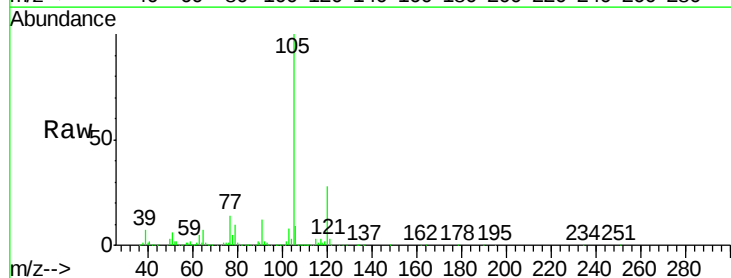
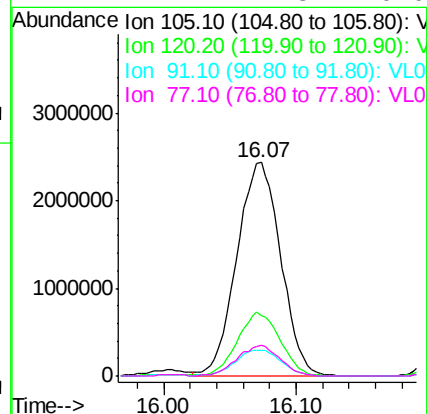
Ion Ratio Lower Upper

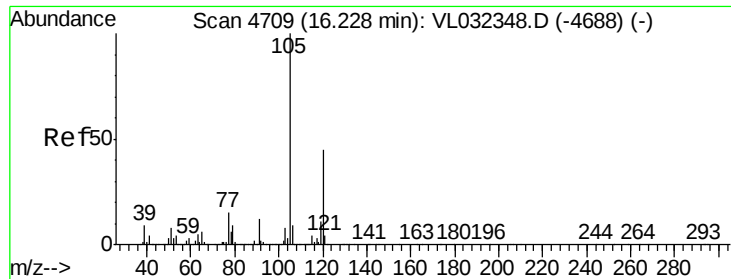
105 100

120 30.0 23.4 35.0

91 12.6 10.0 15.0

77 14.1 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 9.89 ppbv

RT: 16.23 min Scan# 4710

Delta R.T. 0.00 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Instrument :

MSVOA_L

ClientSampleId :

VL0815ABS01

Tot Ion:105 Resp: 5246727

Ion Ratio Lower Upper

105 100

120 47.9

36.3

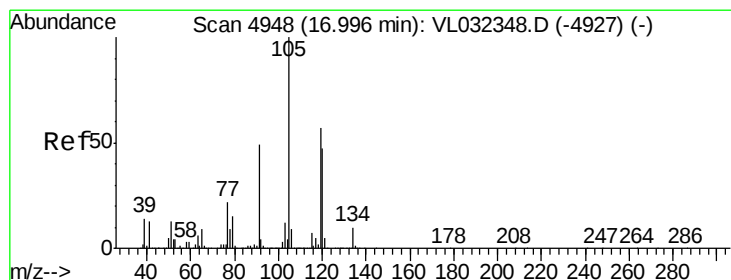
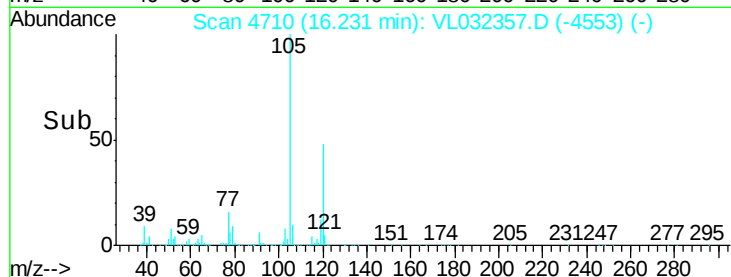
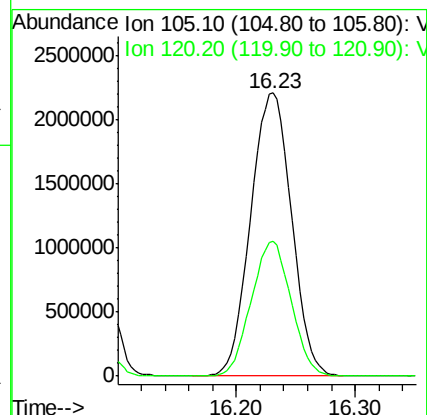
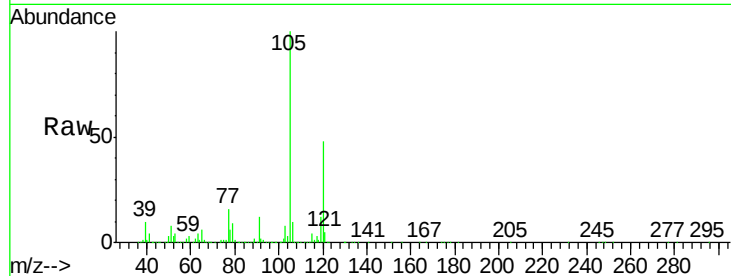
54.5

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:39 PM



#74

1,2,4-Trimethylbenzene

Concen: 9.31 ppbv

RT: 17.00 min Scan# 4950

Delta R.T. 0.01 min

Lab File: VL032357.D

Acq: 15 Aug 2018 18:29

Tgt Ion:105 Resp: 5252437

Ion Ratio Lower Upper

105 100

120 46.1

37.6

56.4

91 37.5

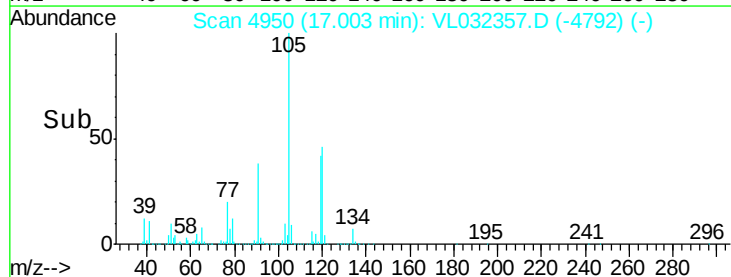
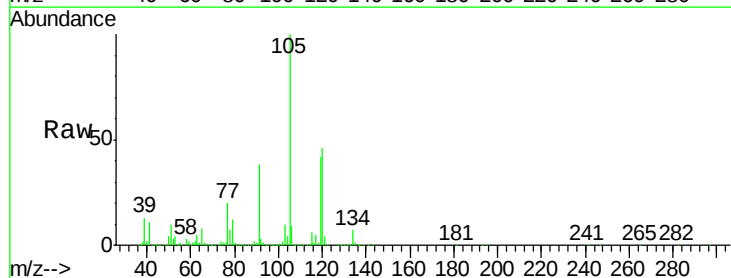
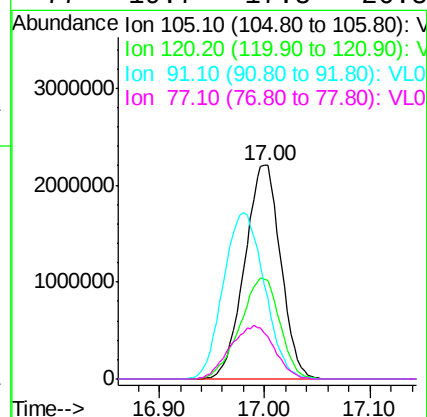
39.9

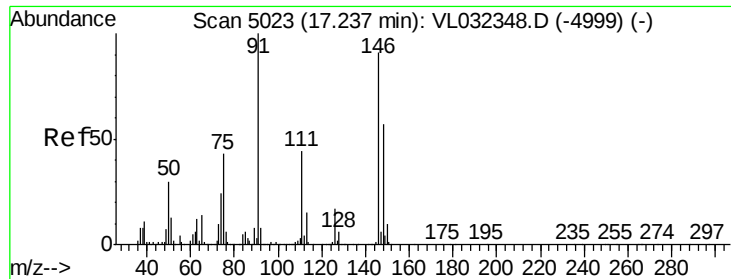
59.9#

77 19.7

17.8

26.8





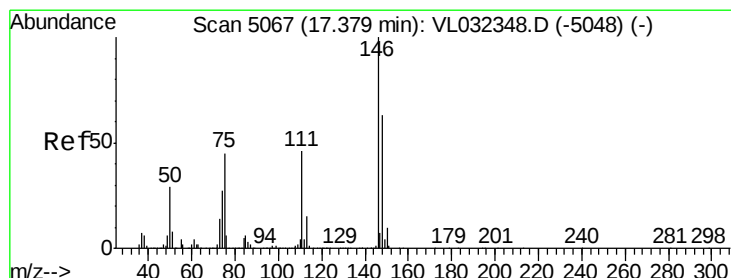
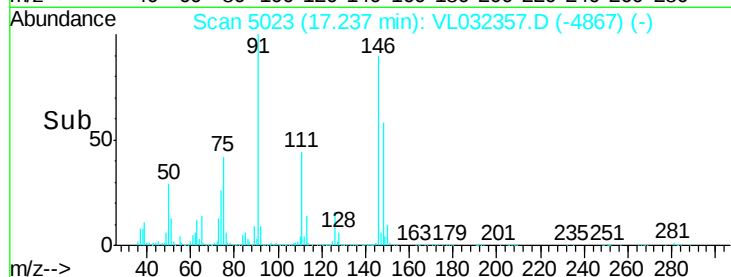
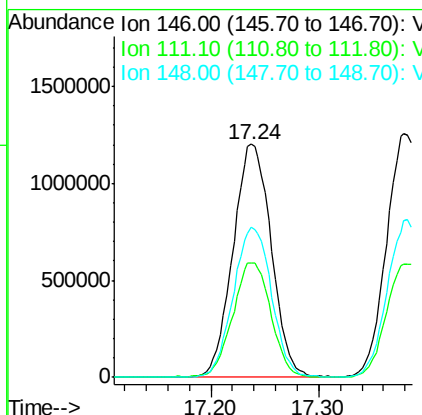
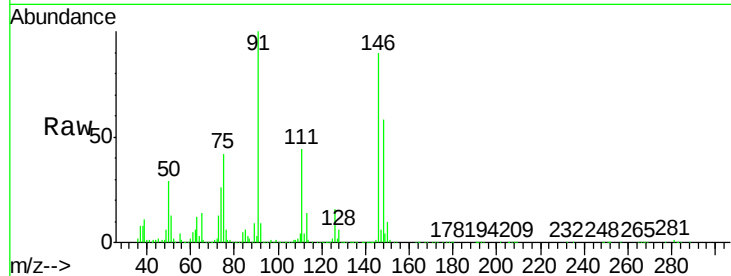
#75
 1,3-Dichlorobenzene
 Concen: 8.71 ppbv
 RT: 17.24 min Scan# 5023
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.6	24.6	73.8
148	64.7	32.0	96.0

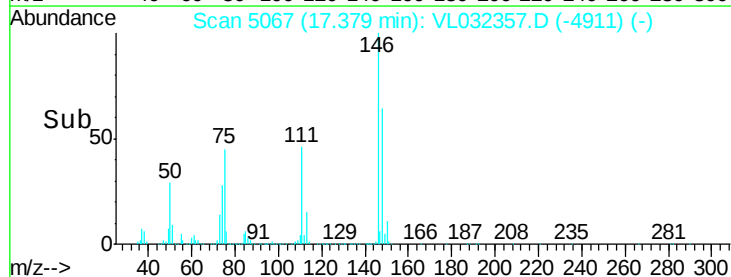
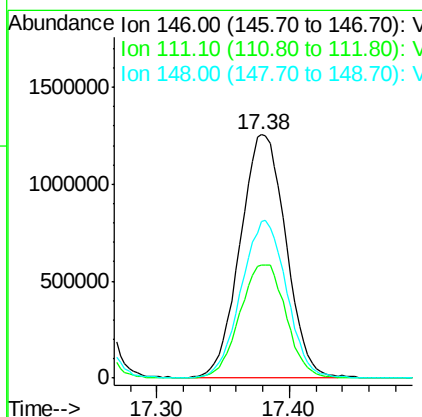
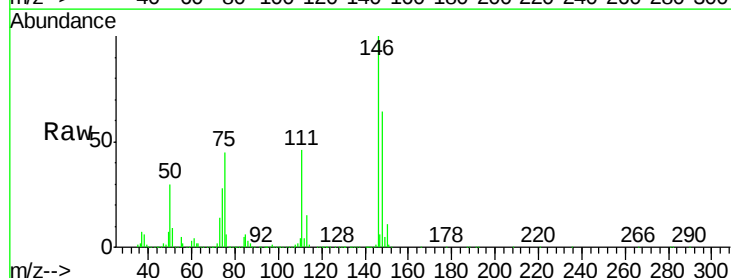
Manual Integrations
 APPROVED

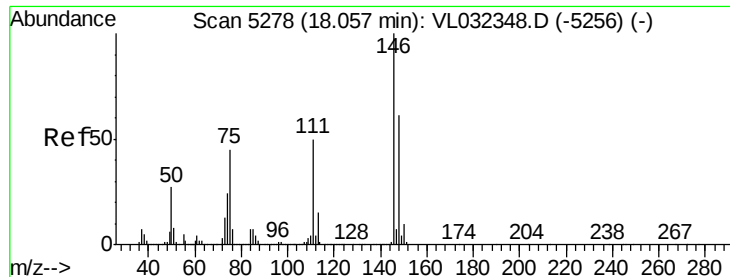
MMDadoda
 8/17/2018 2:06:39 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.35 ppbv
 RT: 17.38 min Scan# 5067
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.8	71.4
148	64.5	32.2	96.6





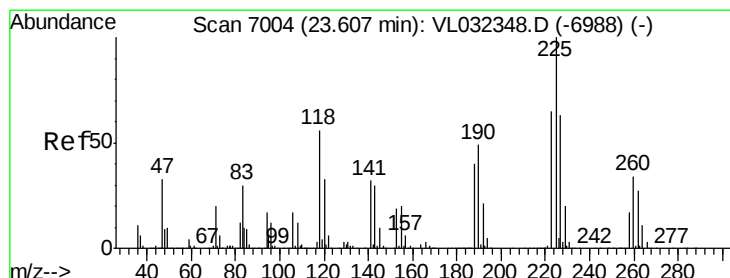
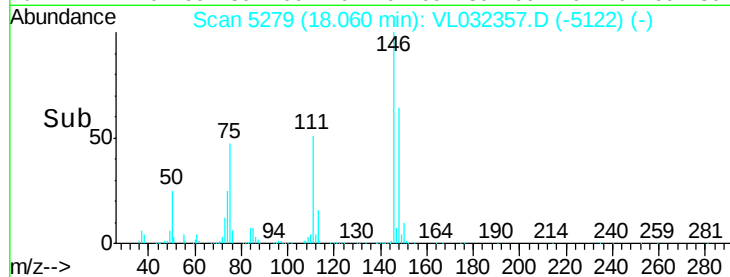
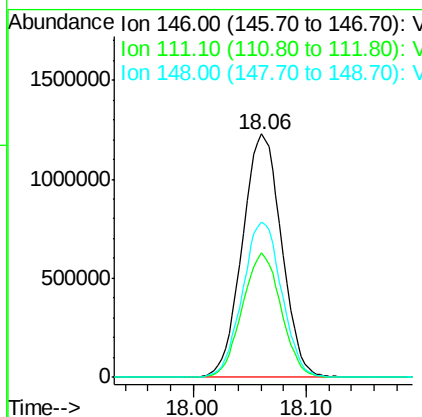
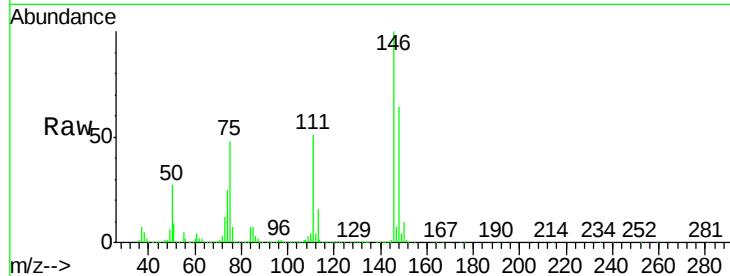
#77
 1,2-Dichlorobenzene
 Concen: 9.14 ppbv
 RT: 18.06 min Scan# 5279
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.4	25.2	75.6
148	64.2	31.8	95.4

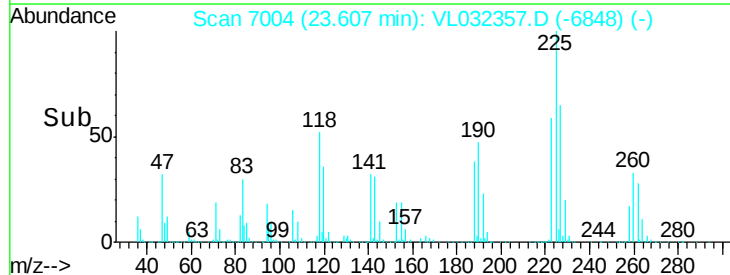
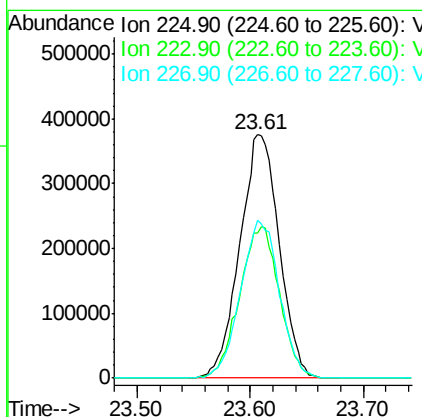
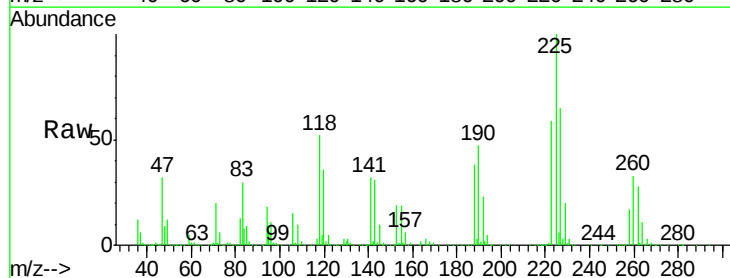
Manual Integrations
 APPROVED

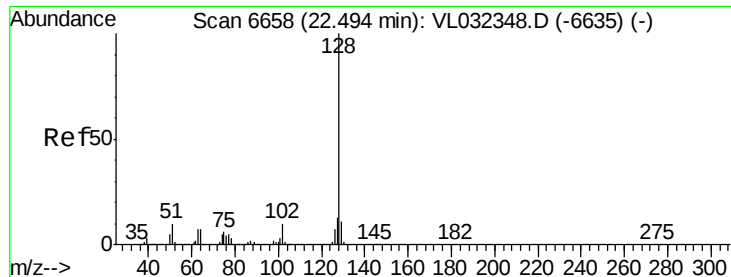
MMDadoda
 8/17/2018 2:06:39 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.37 ppbv
 RT: 23.61 min Scan# 7004
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.6	76.0
227	64.1	51.0	76.6





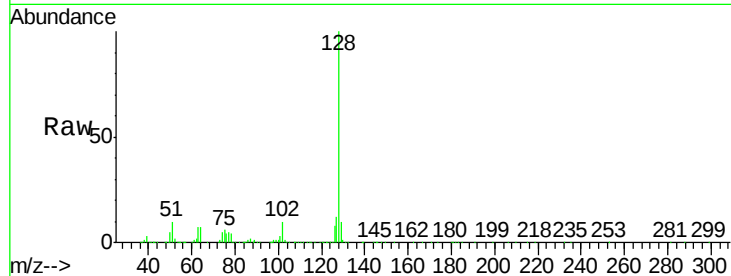
#79
Naphthalene
Concen: 9.41 ppbv
RT: 22.49 min Scan# 6658
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Instrument :
MSVOA_L
ClientSampleId :
VL0815ABS01

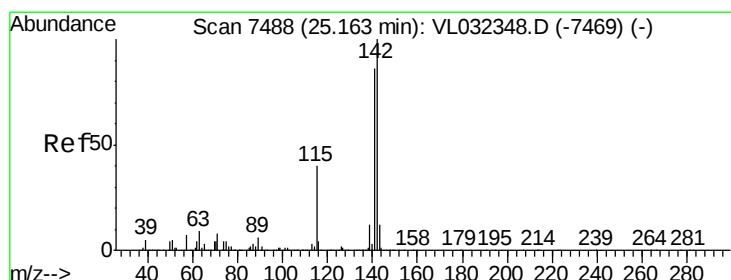
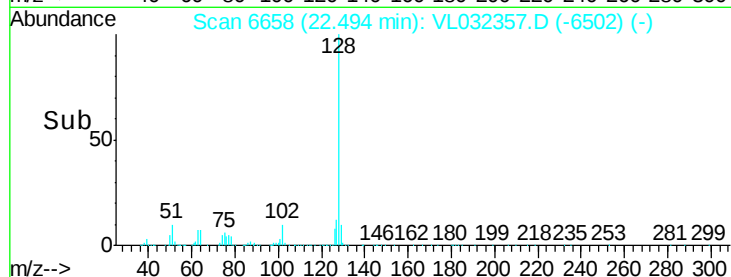
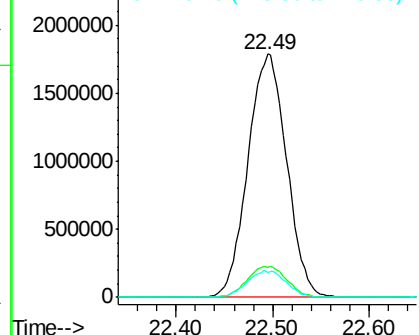
Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.3	15.5
129	10.4	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:39 PM

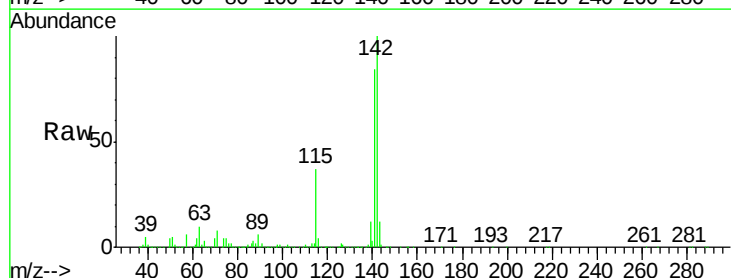


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

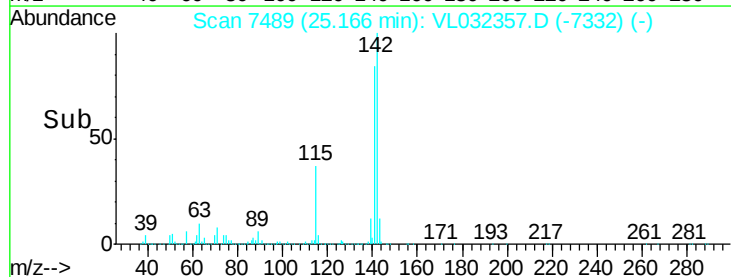
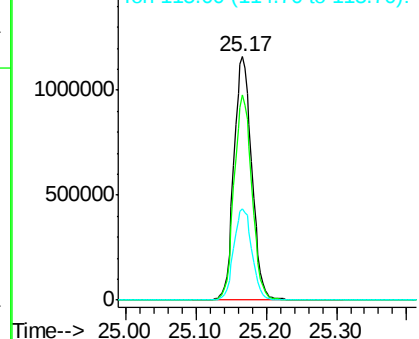


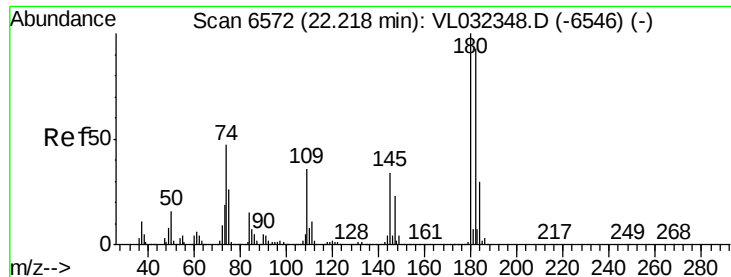
#80
Naphthalene, 2-methyl-
Concen: 18.31 ppbv
RT: 25.17 min Scan# 7489
Delta R.T. 0.00 min
Lab File: VL032357.D
Acq: 15 Aug 2018 18:29

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.8	66.7	100.1
115	38.1	31.0	46.6



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.86 ppbv
 RT: 22.22 min Scan# 6572
 Delta R.T. 0.00 min
 Lab File: VL032357.D
 Acq: 15 Aug 2018 18:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0815ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.1	114.1
184	30.4	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:39 PM

