

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
 Data File : VL026833.D
 Acq On : 10 Feb 2016 00:06
 Operator : SY/AP
 Sample : VL0209ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Manual Integrations
 APPROVED

MMDadoda
 2/11/2016 1:23:34 PM

Quant Time: Feb 10 03:55:28 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 03:55:28 2016
 QLast Update : Wed Feb 10 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.70	49	1682697	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.38	114	4899822	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.80	117	4766149m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.34	95	3278761	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	3657547	10.05	ppbv	100
3) Chlorodifluoromethane	3.60	51	1726906	6.33	ppbv	100
4) Chloromethane	3.78	50	1041253	9.65	ppbv	100
5) Vinyl Chloride	3.92	62	1146552	9.44	ppbv	100
6) Bromomethane	4.18	94	1013273	10.05	ppbv	96
7) Chloroethane	4.28	64	520962	9.77	ppbv	100
8) Dichlorotetrafluoroethane	3.84	85	3157987	9.77	ppbv	96
9) Propene	3.63	41	738399	10.01	ppbv	99
10) Heptane	9.40	43	2634358	10.91	ppbv	98
11) Trichlorofluoromethane	4.73	101	4161975	9.64	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.34	101	3028172	9.92	ppbv	97
13) Ethanol	4.36	45	118713	9.36	ppbv	94
14) Bromoethene	4.49	108	1160270	10.38	ppbv	99
15) Acetone	4.64	43	1771869	7.66	ppbv	99
16) 1,3-Butadiene	4.00	39	857884	9.50	ppbv	97
17) tert-Butyl alcohol	5.17	59	1639585	10.74	ppbv	99
18) 1,1-Dichloroethene	5.12	96	1291385	10.09	ppbv	95
19) Isopropyl Alcohol	4.79	45	896419	10.87	ppbv	99
20) Methylene Chloride	5.19	84	1148691	9.59	ppbv	96
21) Allyl Chloride	5.26	41	1356579	9.50	ppbv	98
22) trans-1,2-Dichloroethene	5.81	96	1250365	10.83	ppbv	96
23) Vinyl Acetate	6.03	43	3282075	10.47	ppbv	99
24) 1,1-Dichloroethane	5.95	63	2538408	10.13	ppbv	99
25) Ethyl Acetate	6.71	43	3773923	10.88	ppbv	99
26) Hexane	6.70	57	2078760	10.63	ppbv	96
27) Carbon Disulfide	5.43	76	3419040	10.15	ppbv	98
28) Methyl tert-Butyl Ether	5.99	73	3308621	10.83	ppbv	100
29) Chloroform	6.79	83	3152649	10.36	ppbv	99
30) Cyclohexane	8.33	84	1858466	11.68	ppbv	95
31) cis-1,2-Dichloroethene	6.56	61	1802359	11.04	ppbv	95
32) 1,1,1-Trichloroethane	7.64	97	3201899	10.46	ppbv	99
34) 2-Butanone	6.24	43	2254302	9.39	ppbv	97
35) Carbon Tetrachloride	8.21	117	3512783	9.87	ppbv	100
36) Benzene	8.07	78	4082061	10.50	ppbv	99
37) 1,2-Dichloroethane	7.42	62	2286860	9.39	ppbv	97
38) Trichloroethene	9.12	130	2012298	11.23	ppbv	97
39) 1,2-Dichloropropane	8.87	63	1460758	9.94	ppbv	97
40) 1,4-Dioxane	9.16	88	379653	14.56	ppbv	68
41) Tetrahydrofuran	7.17	42	1252463	10.59	ppbv	96
42) Bromodichloromethane	9.07	83	3350410	10.22	ppbv	99
43) Methyl Methacrylate	9.31	69	1557235	11.42	ppbv	93

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
 Data File : VL026833.D
 Acq On : 10 Feb 2016 00:06
 Operator : SY/AP
 Sample : VL0209ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Manual Integrations
 APPROVED

MMDadoda
 2/11/2016 1:23:34 PM

Quant Time: Feb 10 03:55:28 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 03:55:28 2016
 QLast Update : Wed Feb 10 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.13	57	6857849	10.32	ppbv	99
45) t-1,3-Dichloropropene	10.70	75	2166993	11.82	ppbv	98
46) cis-1,3-Dichloropropene	10.07	75	2622757	11.75	ppbv	95
47) 1,1,2-Trichloroethane	10.93	97	1729359	10.63	ppbv	100
48) Dibromochloromethane	11.85	129	2990990	11.25	ppbv	99
49) Bromoform	14.87	173	2385092	11.91	ppbv	100
50) 4-Methyl-2-Pentanone	10.14	43	3002237	10.60	ppbv	97
51) 2-Hexanone	11.66	43	2716712	11.44	ppbv	96
52) Tetrachloroethene	12.84	164	1812223	11.84	ppbv	98
53) Toluene	11.29	91	5070905	11.59	ppbv	99
54) 1,2-Dibromoethane	12.19	107	2642338	10.92	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.84	131	2268573	10.80	ppbv	99
57) Chlorobenzene	13.87	112	4244366	10.76	ppbv	97
58) Ethyl Benzene	14.46	91	6635075	11.56	ppbv	99
59) m/p-Xylene	14.77	91	10812631m	22.05	ppbv	
60) o-Xylene	15.54	91	5911584	11.02	ppbv	98
61) Styrene	15.36	104	2314163	12.75	ppbv	98
62) Isopropylbenzene	16.60	105	7178210	11.15	ppbv	98
63) 1,1,2,2-Tetrachloroethane	15.54	83	3878056	10.59	ppbv	100
64) n-propylbenzene	17.57	120	1901310	11.48	ppbv	98
65) tert-Butylbenzene	18.87	119	6766932	11.41	ppbv	97
66) Benzyl Chloride	19.16	91	2234696	11.61	ppbv	98
67) sec-Butylbenzene	19.47	105	8550897	11.07	ppbv	99
69) p-Isopropyltoluene	19.85	119	7207227	11.52	ppbv	98
70) n-Butylbenzene	20.81	91	6642027	11.13	ppbv	99
71) 2-Chlorotoluene	17.48	91	5124283	11.66	ppbv	98
72) 4-Ethyltoluene	17.88	105	5800596	11.74	ppbv	99
73) 1,3,5-Trimethylbenzene	18.04	105	5441402	11.31	ppbv	98
74) 1,2,4-Trimethylbenzene	18.89	105	6007251	10.98	ppbv	95
75) 1,3-Dichlorobenzene	19.18	146	3627979	10.94	ppbv	99
76) 1,4-Dichlorobenzene	19.33	146	3620097	11.16	ppbv	98
77) 1,2-Dichlorobenzene	20.08	146	3416153	10.84	ppbv	98
78) Hexachloro-1,3-Butadiene	24.72	225	1483504	9.91	ppbv	99
79) Naphthalene	23.97	128	2771578	10.54	ppbv	99
80) Naphthalene, 2-methyl-	26.09	142	950554	8.90	ppbv	100
81) 1,2,4-Trichlorobenzene	23.78	180	1479008	10.41	ppbv	99

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

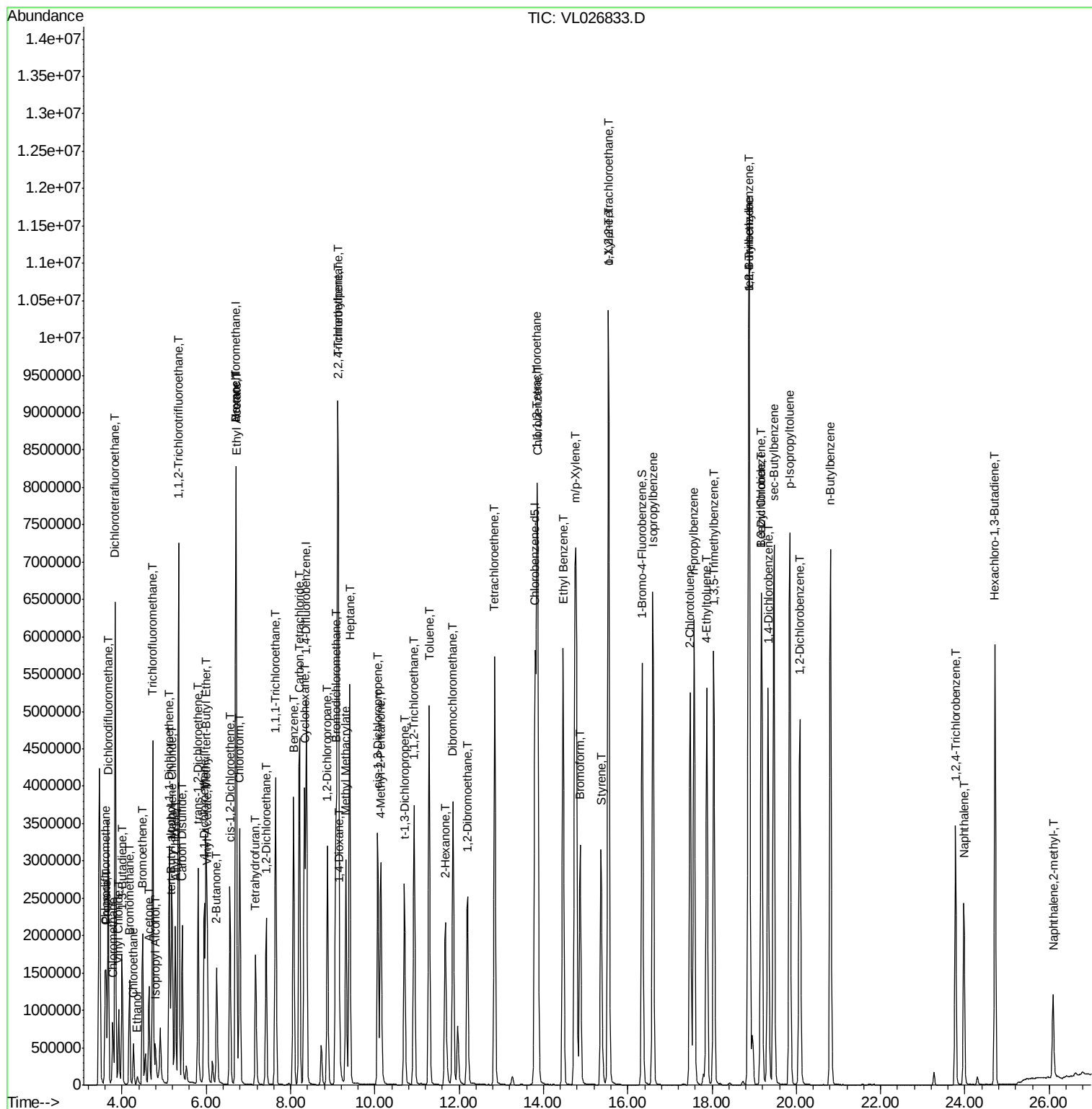
```
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\  
Data File : VL026833.D  
Acq On    : 10 Feb 2016  00:06  
Operator  : SY/AP  
Sample    : VL0209ABS01  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1      Sample Multiplier: 1
```

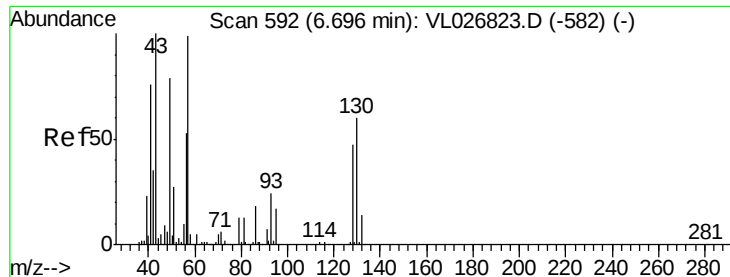
Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Manual Integrations APPROVED

MMDadoda
2/11/2016 1:23:34 PM

Quant Time: Feb 10 03:55:28 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb
QLast Update : Wed Feb 10 03:14:04 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.70 min Scan# 592

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 49 Resp: 1682697

Ion Ratio Lower Upper

49 100

128 65.0 29.7 89.1

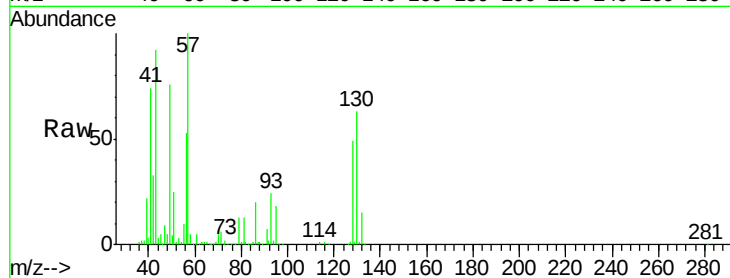
130 84.5 38.3 114.8

Manual Integrations

APPROVED

MMDadoda

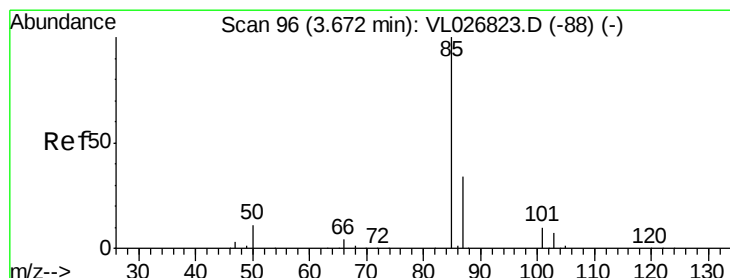
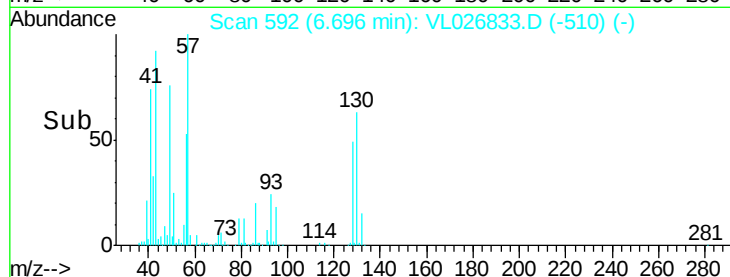
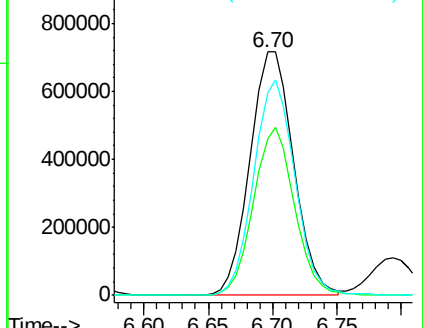
2/11/2016 1:23:34 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 10.05 ppbv

RT: 3.67 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL026833.D

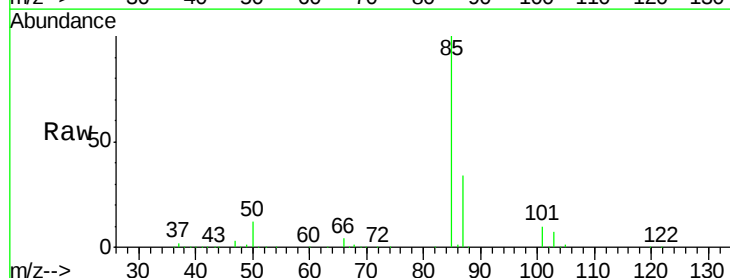
Acq: 10 Feb 2016 00:06

Tgt Ion: 85 Resp: 3657547

Ion Ratio Lower Upper

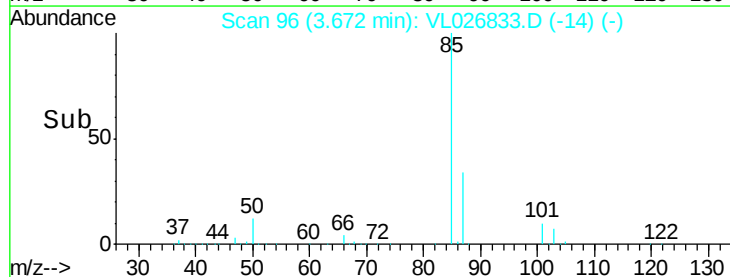
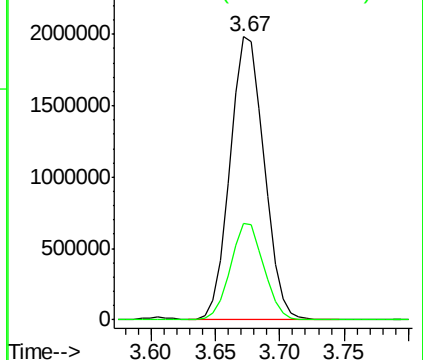
85 100

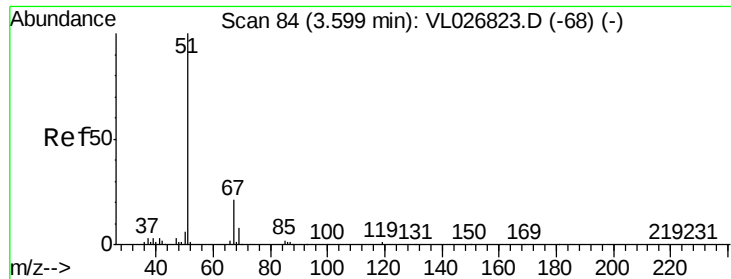
87 34.1 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 6.33 ppbv

RT: 3.60 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 51 Resp: 1726906

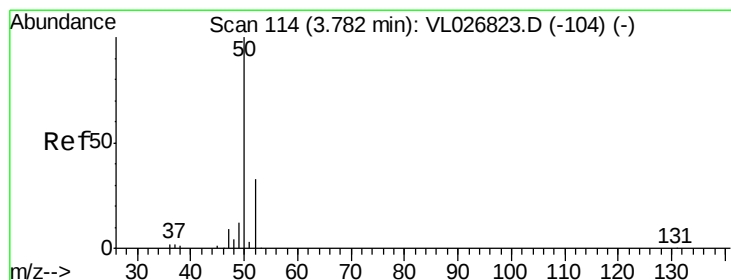
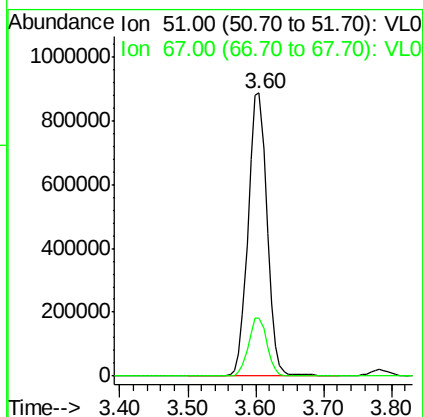
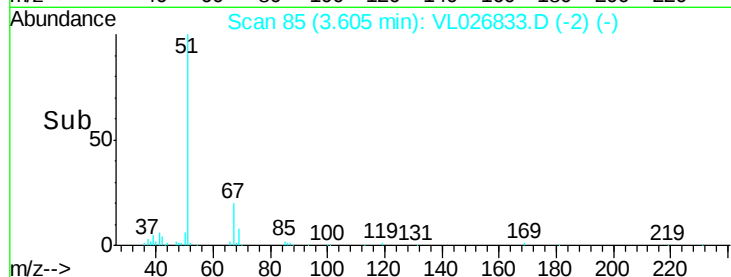
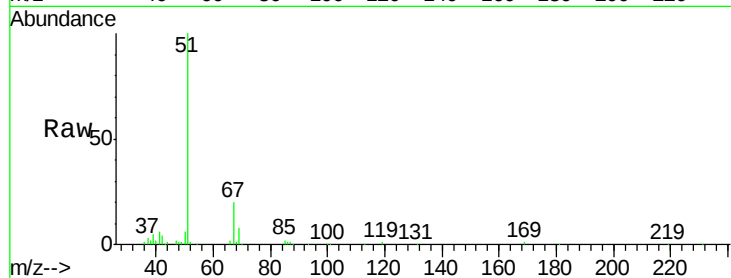
Ion Ratio Lower Upper

51 100

67 20.5 16.4 24.6

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#4

Chloromethane

Concen: 9.65 ppbv

RT: 3.78 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL026833.D

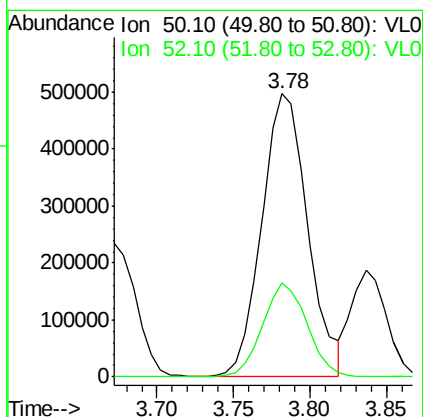
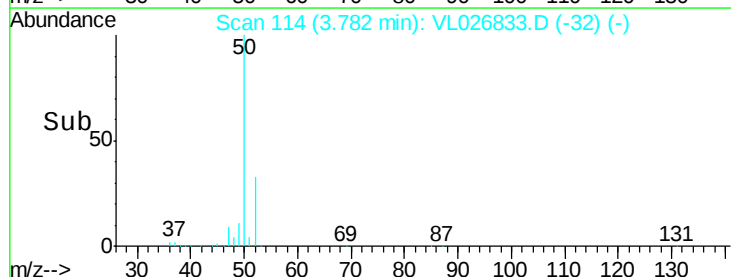
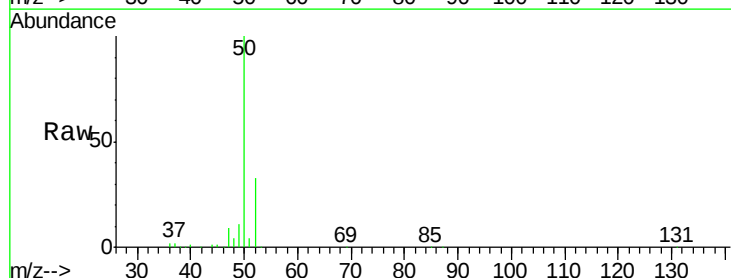
Acq: 10 Feb 2016 00:06

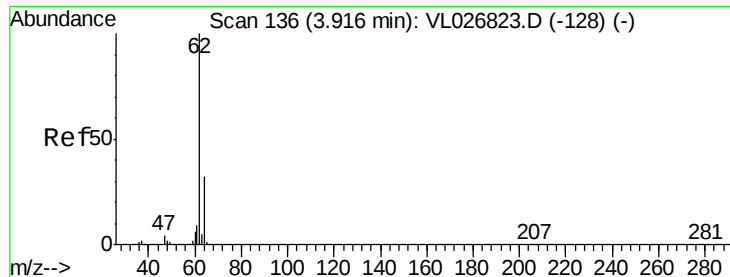
Tgt Ion: 50 Resp: 1041253

Ion Ratio Lower Upper

50 100

52 33.1 26.3 39.5





#5

Vinyl Chloride

Concen: 9.44 ppbv

RT: 3.92 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 62 Resp: 1146552

Ion Ratio Lower Upper

62 100

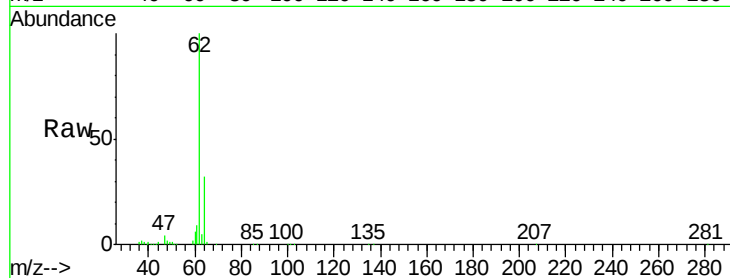
64 32.2 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

2/11/2016 1:23:34 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.92

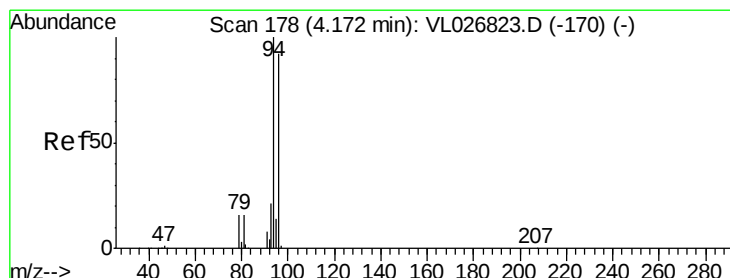
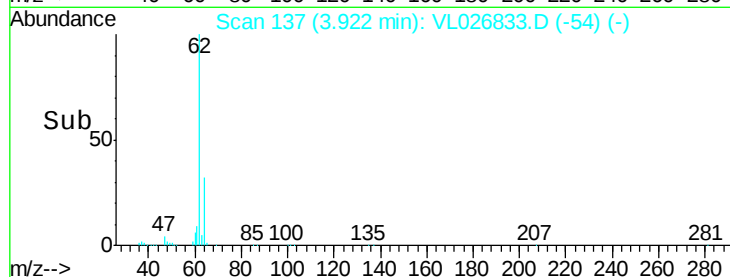
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 10.05 ppbv

RT: 4.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VL026833.D

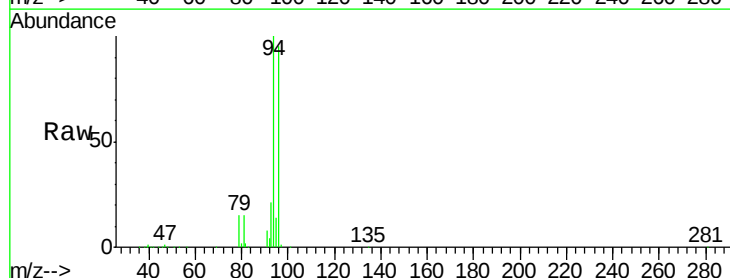
Acq: 10 Feb 2016 00:06

Tgt Ion: 94 Resp: 1013273

Ion Ratio Lower Upper

94 100

96 94.8 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

4.18

500000

400000

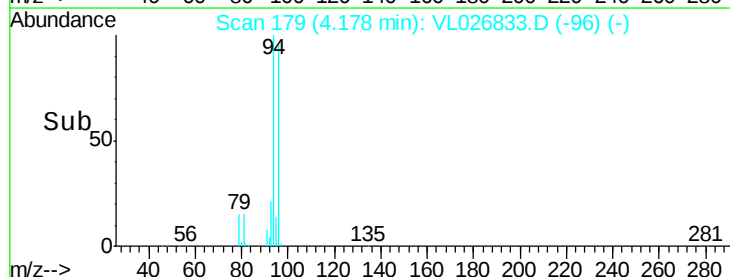
300000

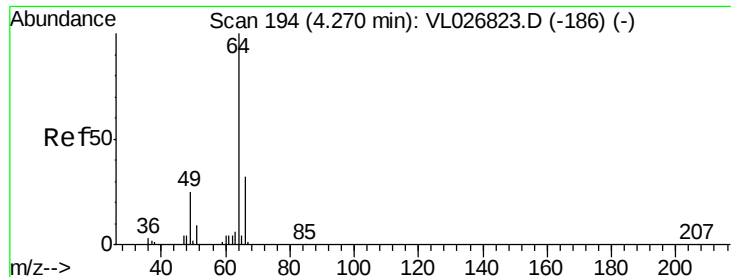
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.77 ppbv

RT: 4.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 64 Resp: 520962

Ion Ratio Lower Upper

64 100

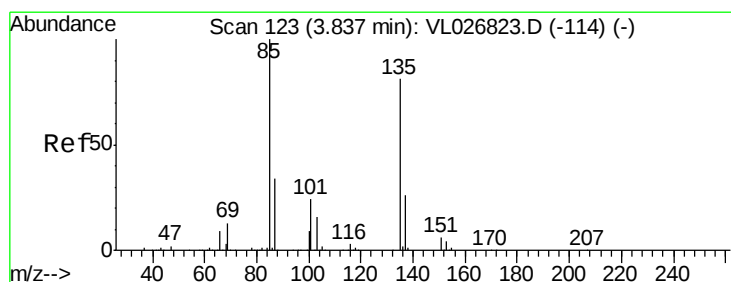
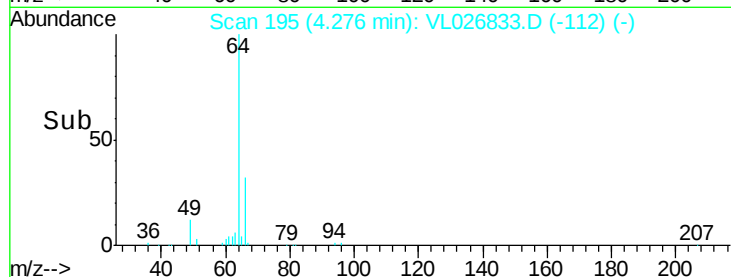
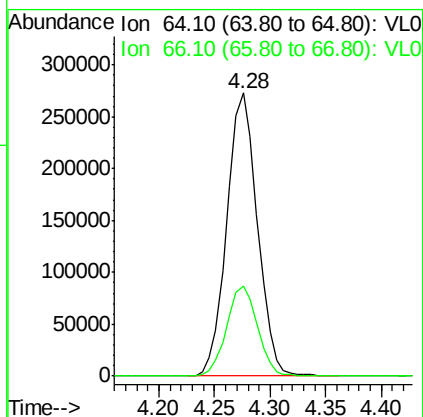
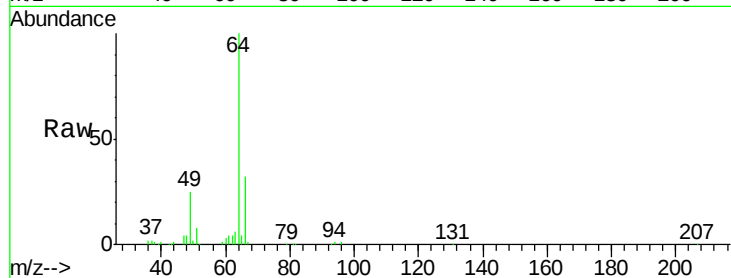
66 31.6 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

2/11/2016 1:23:34 PM



#8

Dichlorotetrafluoroethane

Concen: 9.77 ppbv

RT: 3.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL026833.D

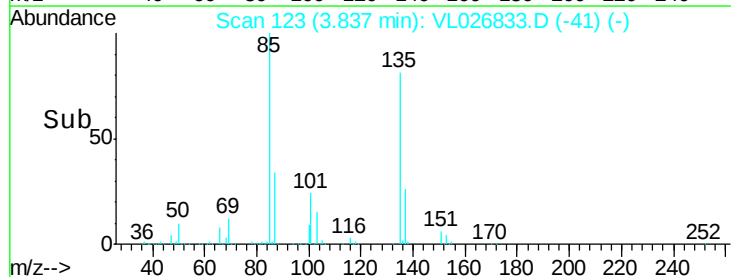
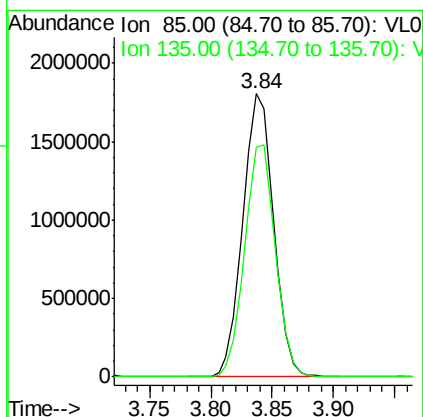
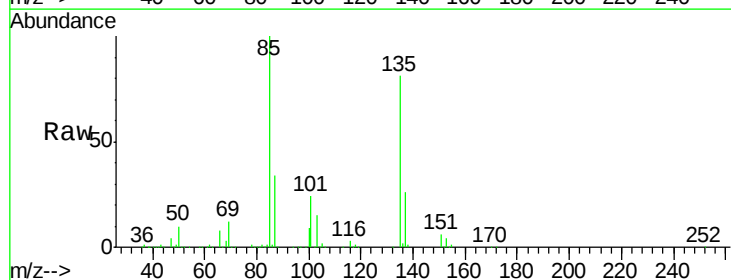
Acq: 10 Feb 2016 00:06

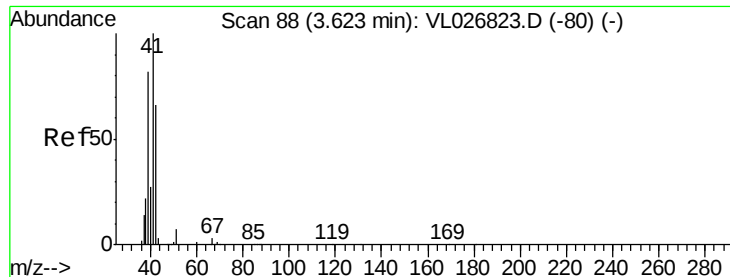
Tgt Ion: 85 Resp: 3157987

Ion Ratio Lower Upper

85 100

135 82.8 63.2 94.8





#9

Propene

Concen: 10.01 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 41 Resp: 738399

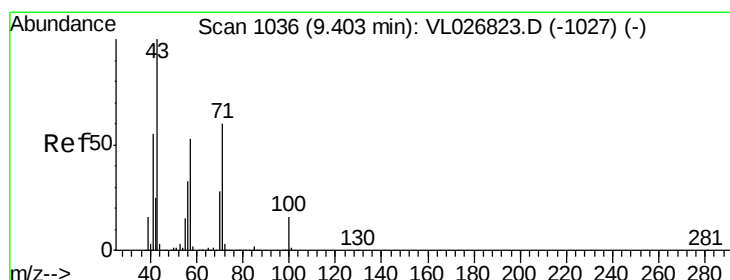
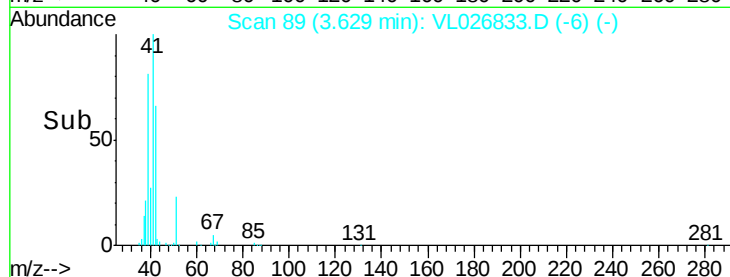
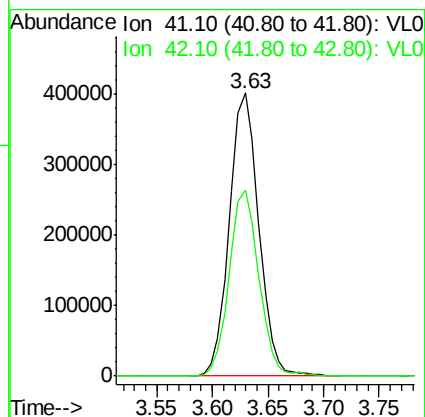
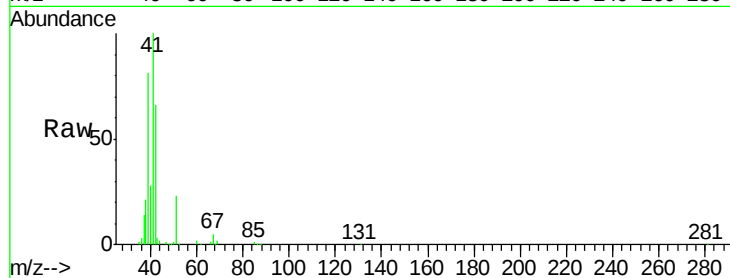
Ion Ratio Lower Upper

41 100

42 66.8 52.8 79.2

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#10

Heptane

Concen: 10.91 ppbv

RT: 9.40 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VL026833.D

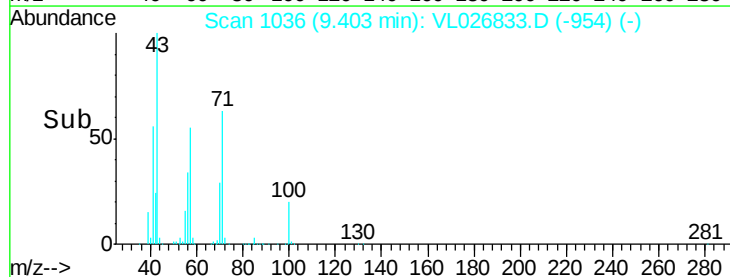
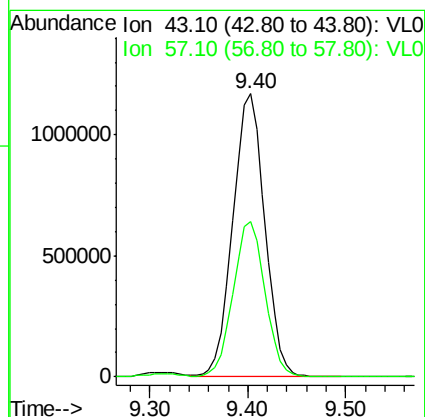
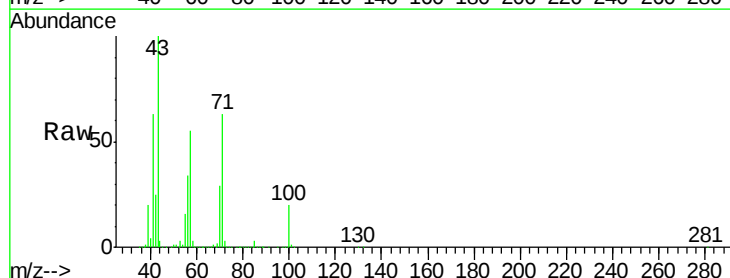
Acq: 10 Feb 2016 00:06

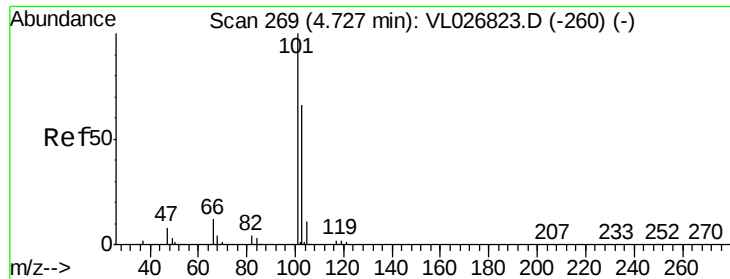
Tgt Ion: 43 Resp: 2634358

Ion Ratio Lower Upper

43 100

57 56.8 44.0 66.0





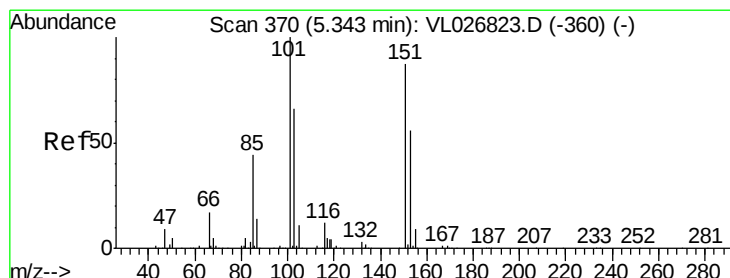
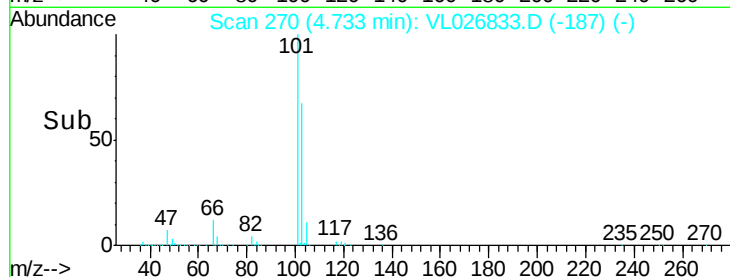
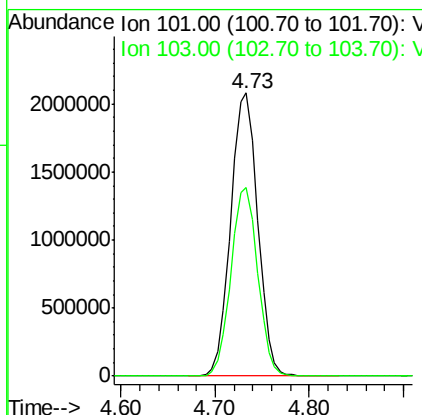
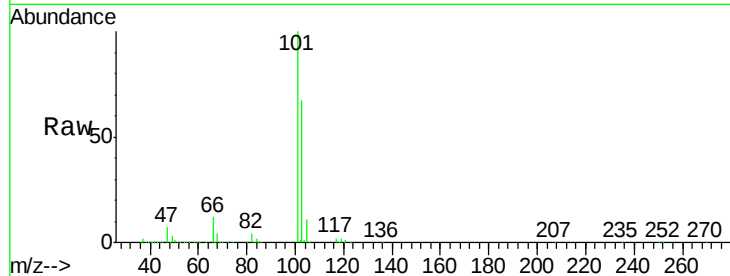
#11
 Trichlorofluoromethane
 Concen: 9.64 ppbv
 RT: 4.73 min Scan# 270
 Delta R.T. 0.01 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Tot Ion:101 Resp: 4161975
 Ion Ratio Lower Upper
 101 100
 103 66.6 52.7 79.1

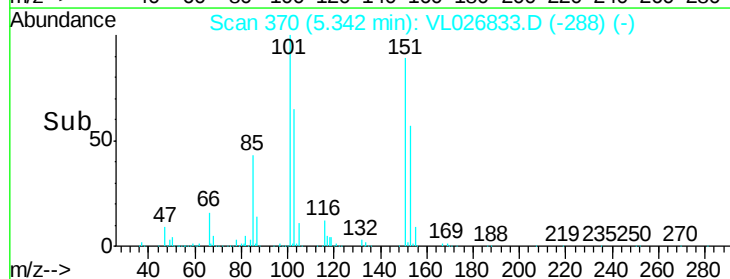
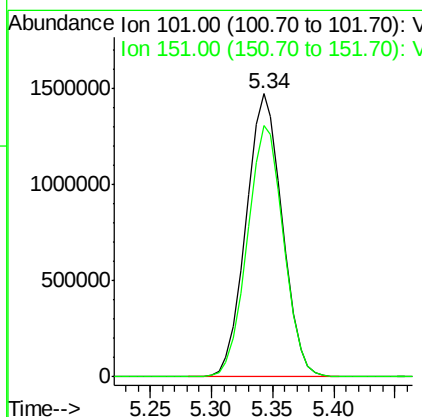
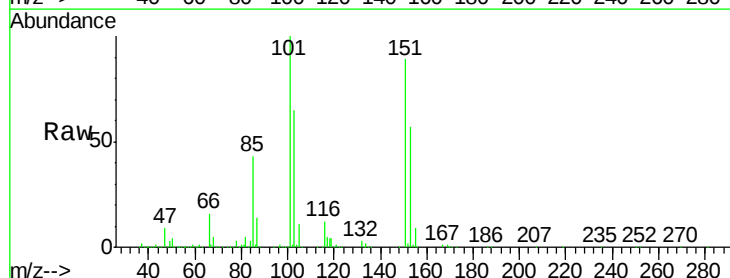
Manual Integrations
 APPROVED

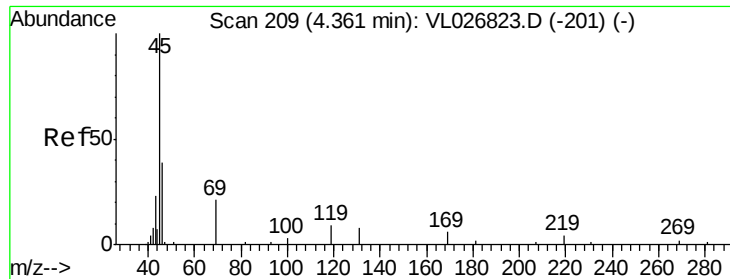
MMDadoda
 2/11/2016 1:23:34 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.92 ppbv
 RT: 5.34 min Scan# 370
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Tgt Ion:101 Resp: 3028172
 Ion Ratio Lower Upper
 101 100
 151 89.4 69.4 104.0





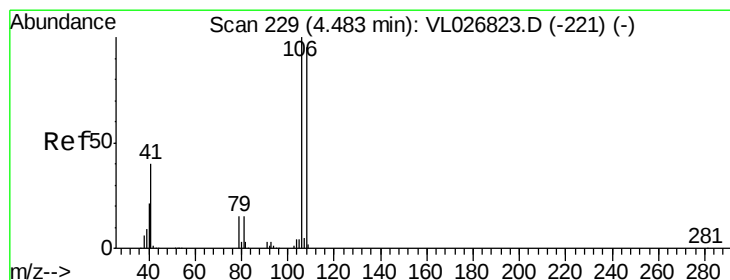
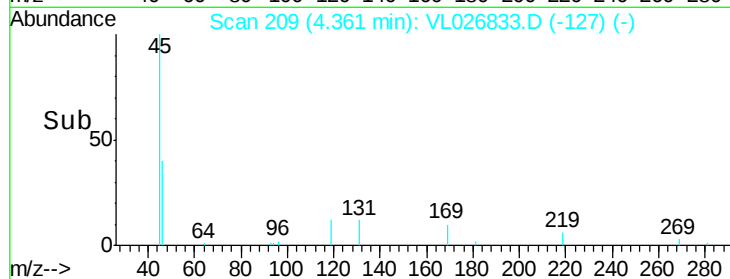
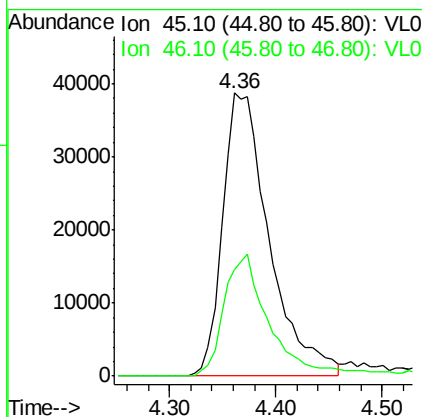
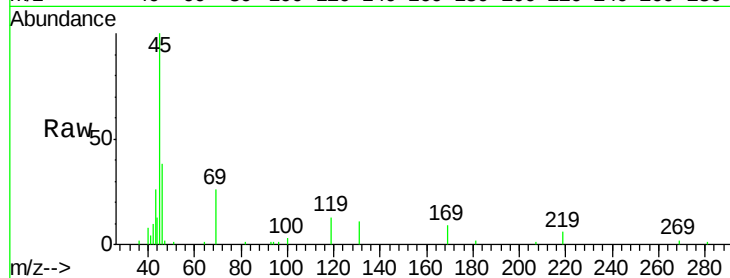
#13
Ethanol
Concen: 9.36 ppbv
RT: 4.36 min Scan# 209
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion: 45 Resp: 118713
Ion Ratio Lower Upper
45 100
46 43.2 15.8 63.4

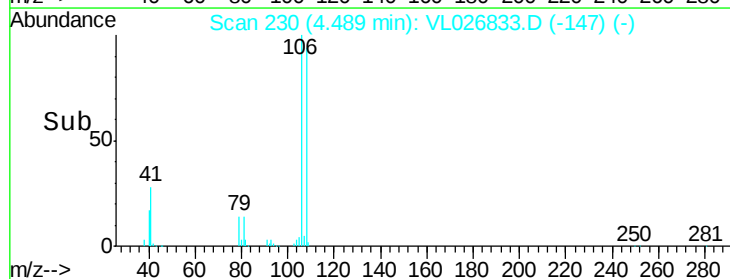
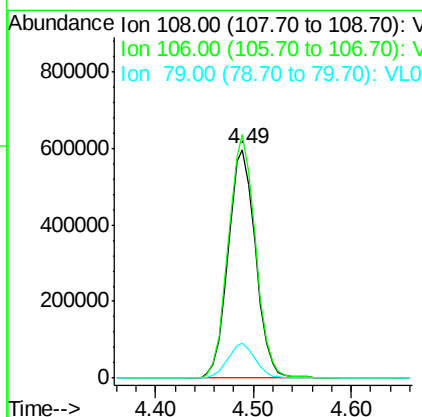
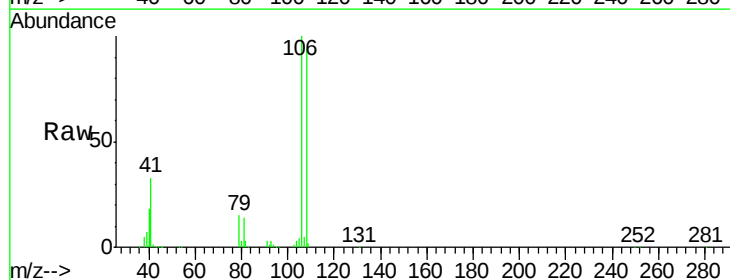
Manual Integrations
APPROVED

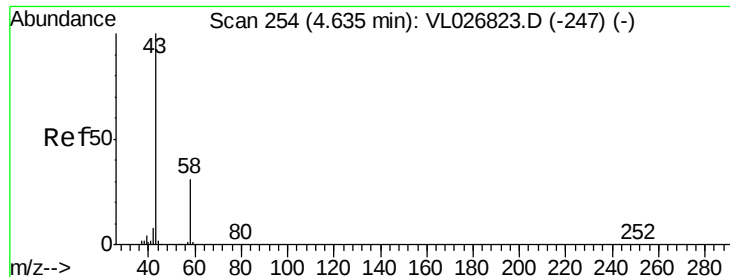
MMDadoda
2/11/2016 1:23:34 PM



#14
Bromoethene
Concen: 10.38 ppbv
RT: 4.49 min Scan# 230
Delta R.T. 0.01 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion: 108 Resp: 1160270
Ion Ratio Lower Upper
108 100
106 106.0 84.6 126.8
79 15.7 13.4 20.0





#15

Acetone

Concen: 7.66 ppbv

RT: 4.64 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 43 Resp: 1771869

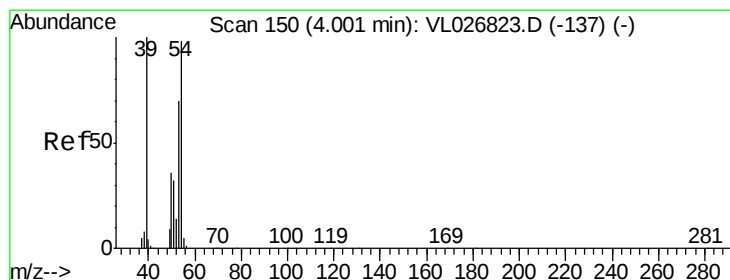
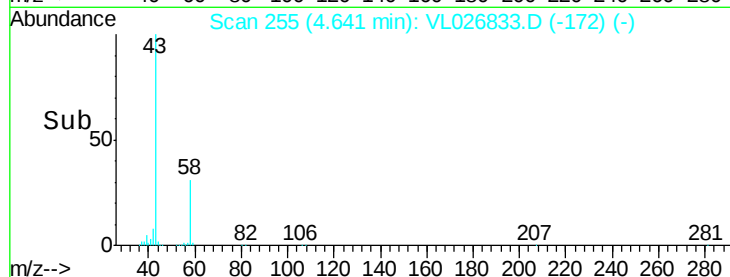
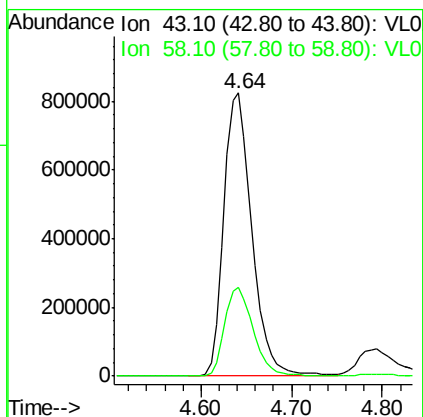
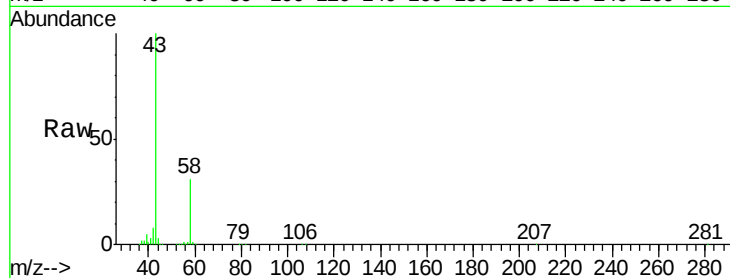
Ion Ratio Lower Upper

43 100

58 32.1 25.2 37.8

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#16

1,3-Butadiene

Concen: 9.50 ppbv

RT: 4.00 min Scan# 150

Delta R.T. -0.00 min

Lab File: VL026833.D

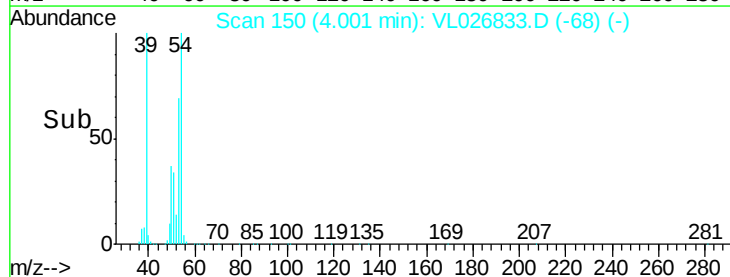
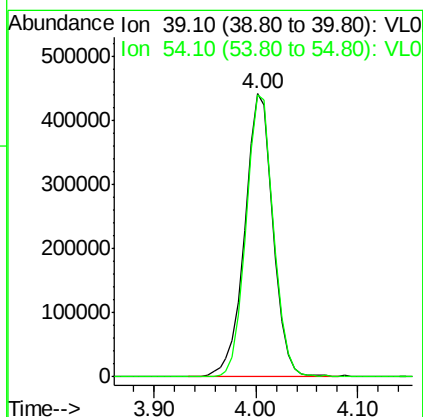
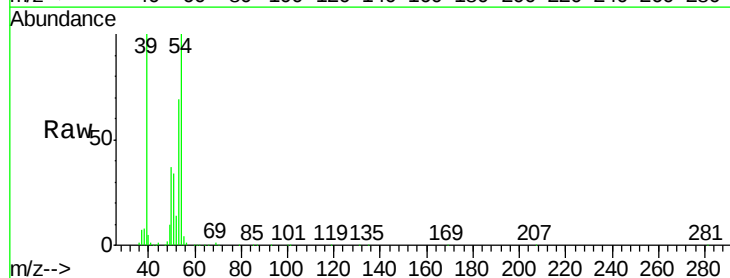
Acq: 10 Feb 2016 00:06

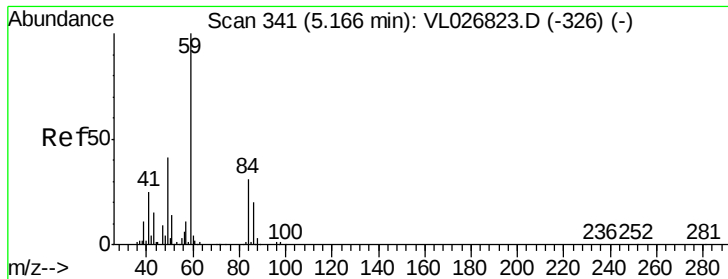
Tgt Ion: 39 Resp: 857884

Ion Ratio Lower Upper

39 100

54 96.3 74.7 112.1





#17

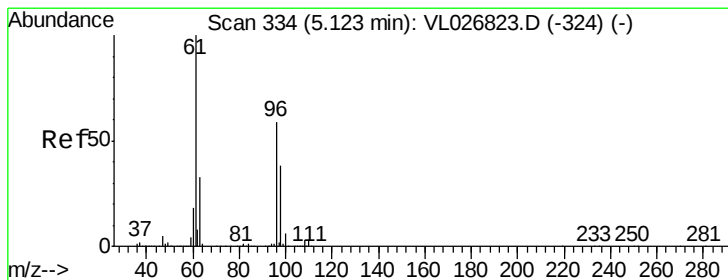
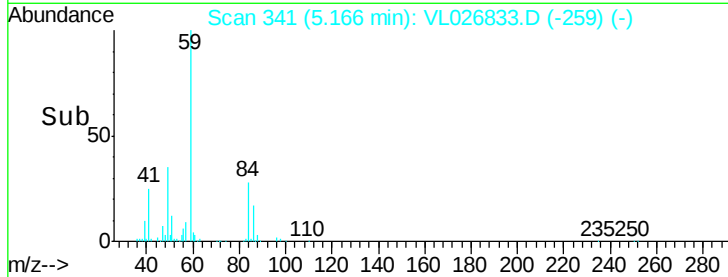
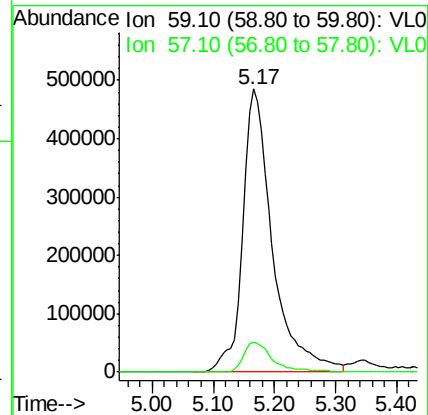
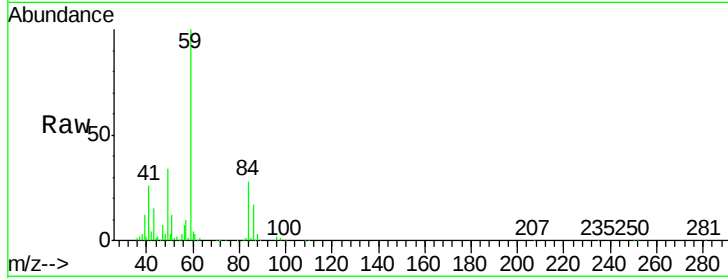
tert-Butyl alcohol
Concen: 10.74 ppbv
RT: 5.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion: 59 Resp: 1639585
Ion Ratio Lower Upper
59 100
57 10.9 8.5 12.7

Manual Integrations
APPROVED

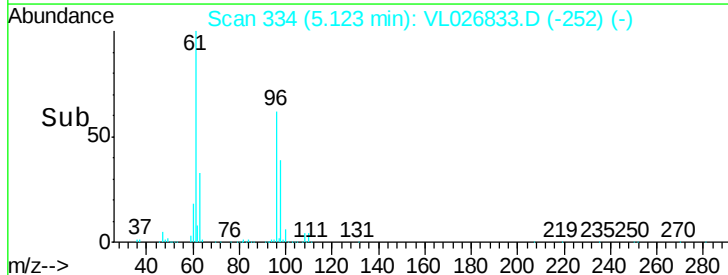
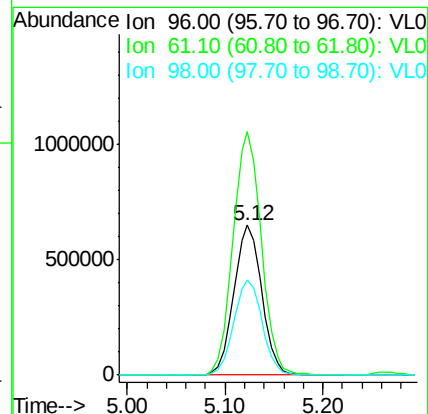
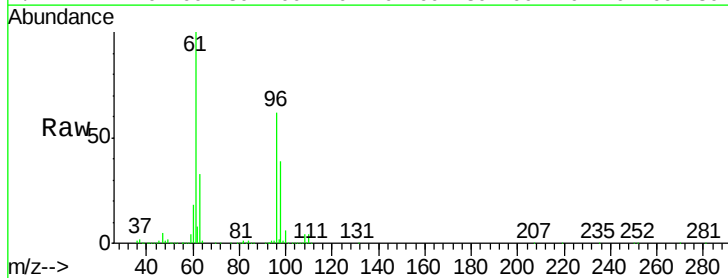
MMDadoda
2/11/2016 1:23:34 PM

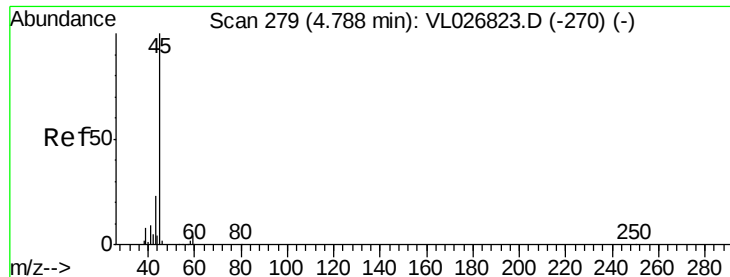


#18

1,1-Dichloroethene
Concen: 10.09 ppbv
RT: 5.12 min Scan# 334
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion: 96 Resp: 1291385
Ion Ratio Lower Upper
96 100
61 162.4 136.7 205.1
98 63.8 52.1 78.1





#19

Isopropyl Alcohol

Concen: 10.87 ppbv

RT: 4.79 min Scan# 279

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 45 Resp: 896419

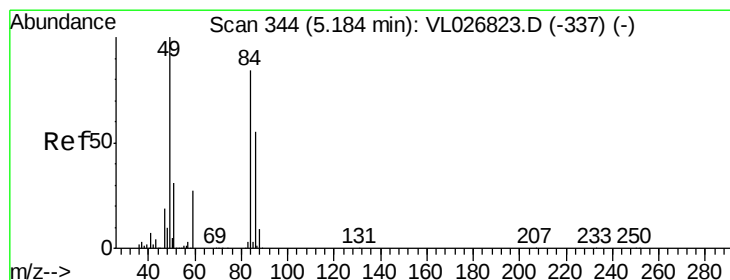
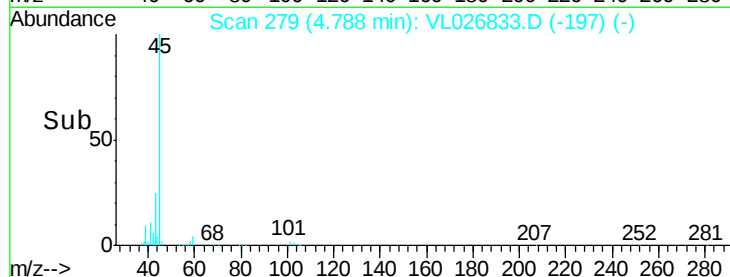
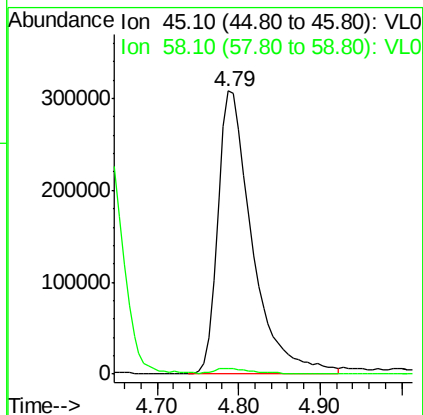
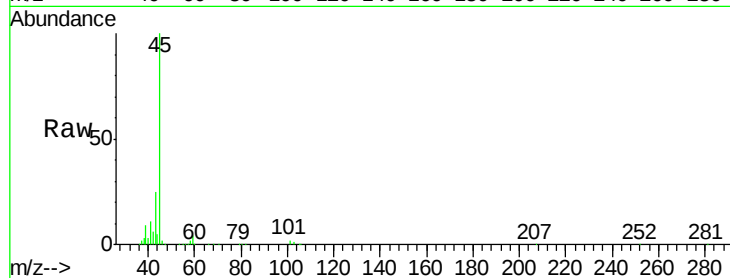
Ion Ratio Lower Upper

45 100

58 3.0 2.2 3.2

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#20

Methylene Chloride

Concen: 9.59 ppbv

RT: 5.19 min Scan# 345

Delta R.T. 0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Tgt Ion: 84 Resp: 1148691

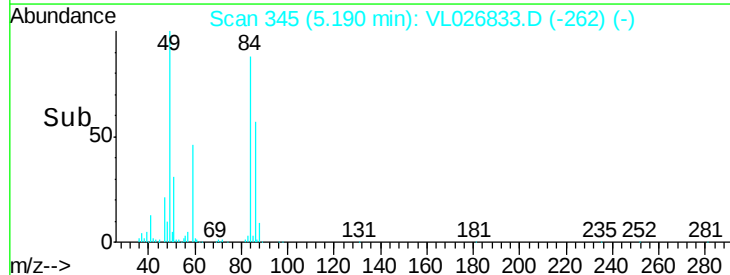
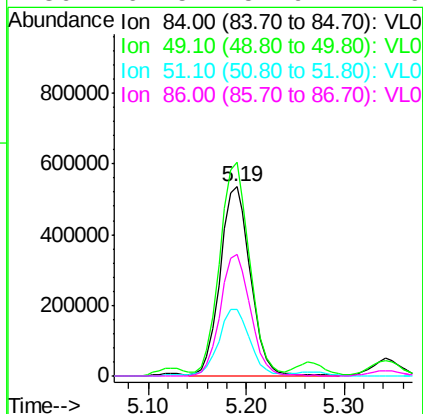
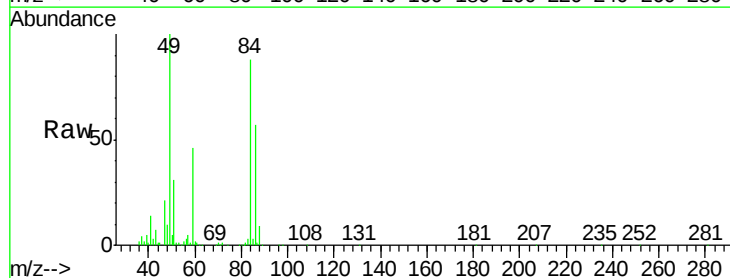
Ion Ratio Lower Upper

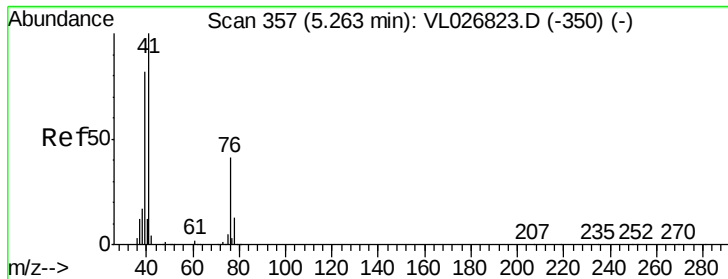
84 100

49 112.2 94.9 142.3

51 34.7 29.5 44.3

86 64.5 51.9 77.9





#21

Allvl Chloride

Concen: 9.50 ppbv

RT: 5.26 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 41 Resp: 1356579

Ion Ratio Lower Upper

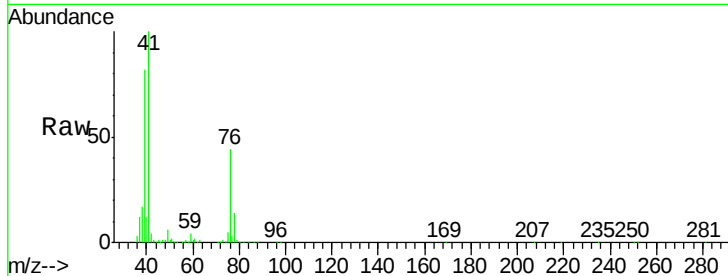
41 100

76 43.1 32.0 48.0

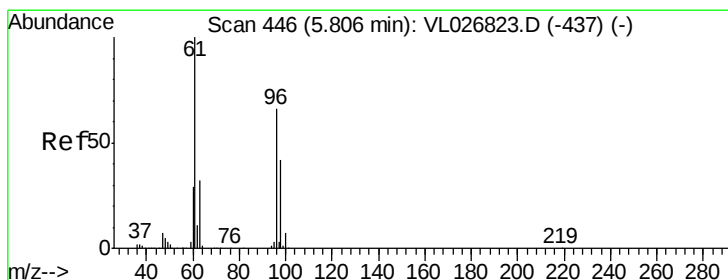
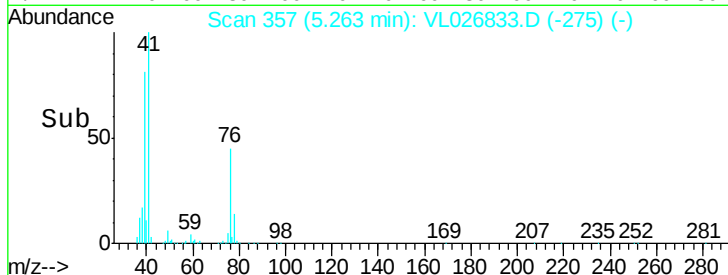
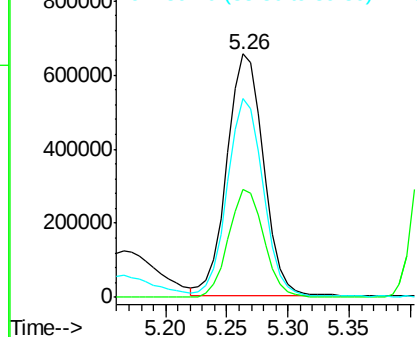
39 80.4 64.6 96.8

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 10.83 ppbv

RT: 5.81 min Scan# 446

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

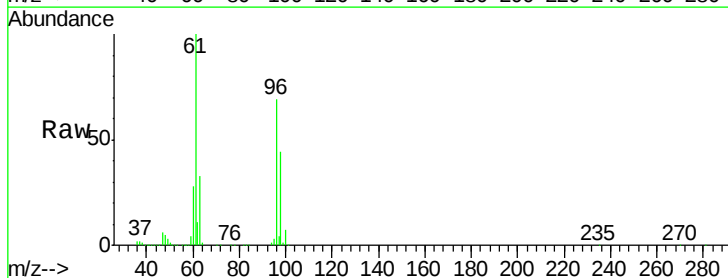
Tgt Ion: 96 Resp: 1250365

Ion Ratio Lower Upper

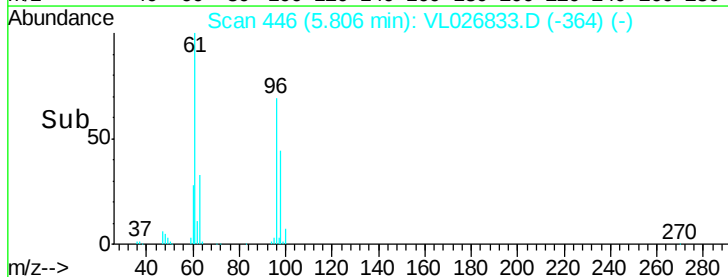
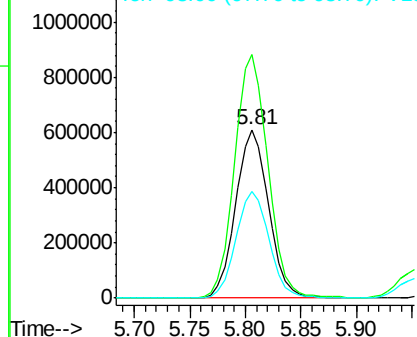
96 100

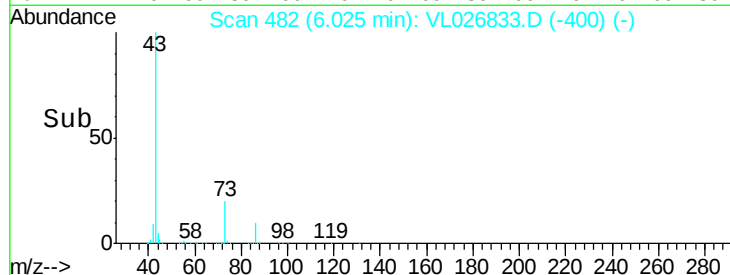
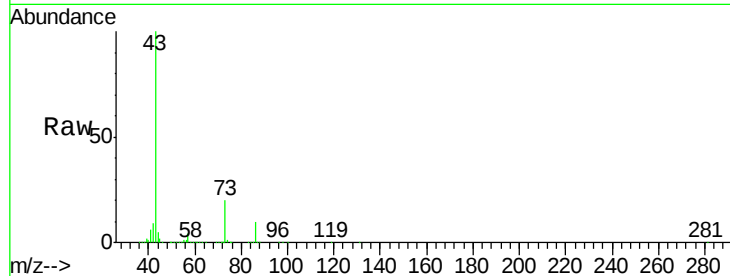
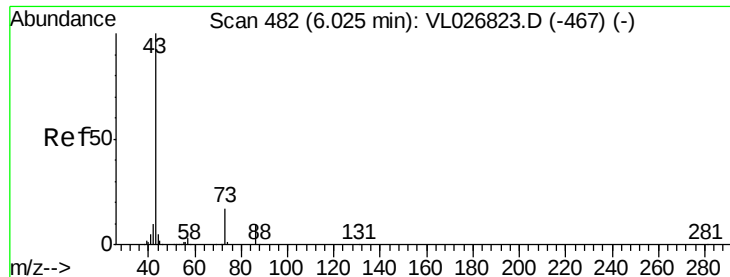
61 144.9 121.6 182.4

98 63.7 50.6 76.0



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.47 ppbv

RT: 6.03 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Tot Ion: 43 Resp: 3282075

Ion Ratio Lower Upper

43 100

86 10.3 7.7 11.5

42 9.4 7.8 11.8

44 5.1 3.9 5.9

Instrument :

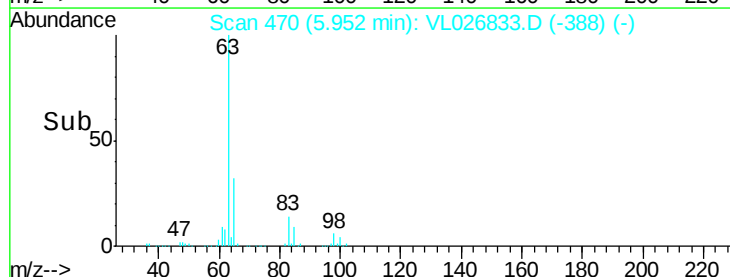
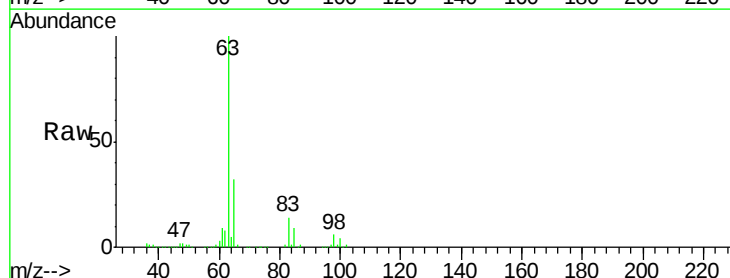
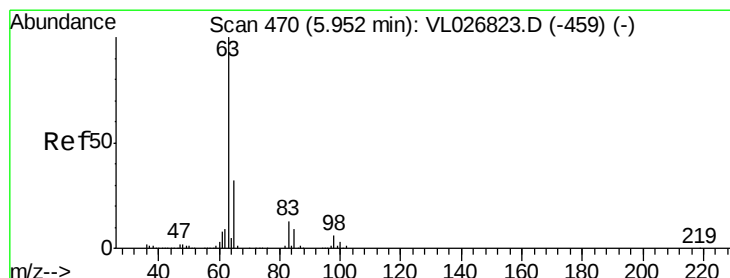
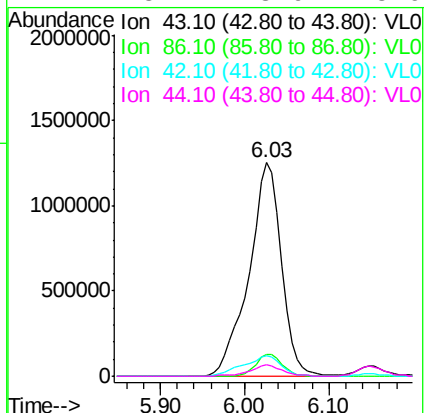
MSVOA_L

ClientSampleId :

VL0209ABS01

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#24

1,1-Dichloroethane

Concen: 10.13 ppbv

RT: 5.95 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

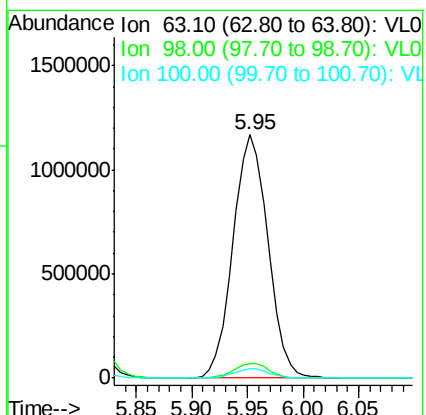
Tgt Ion: 63 Resp: 2538408

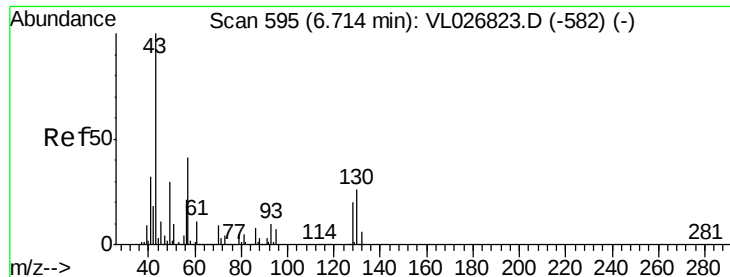
Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.7

100 3.8 1.7 5.1





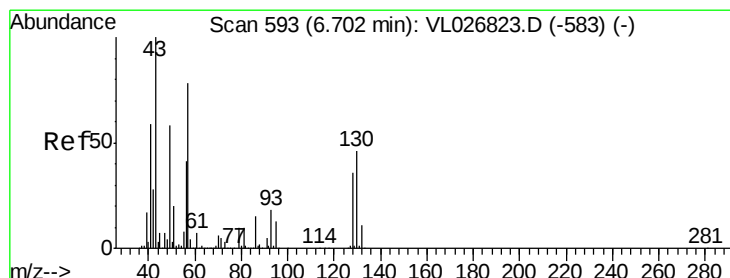
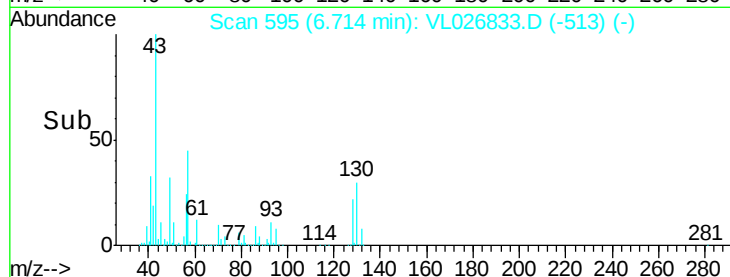
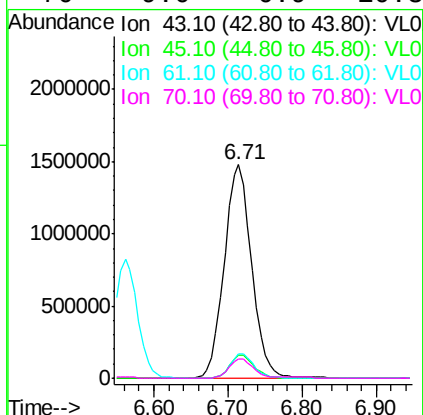
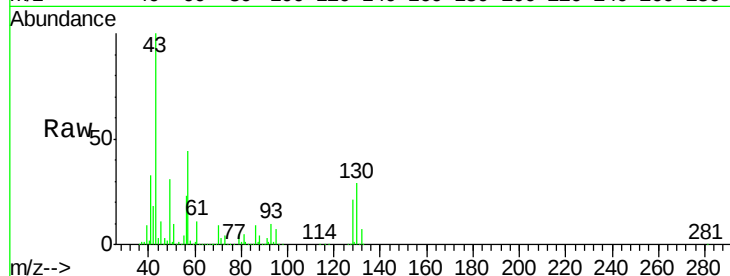
#25
Ethyl Acetate
Concen: 10.88 ppbv
RT: 6.71 min Scan# 595
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion	43	Resp	3773923
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	10.1	7.9	11.9
70	9.0	6.9	10.3

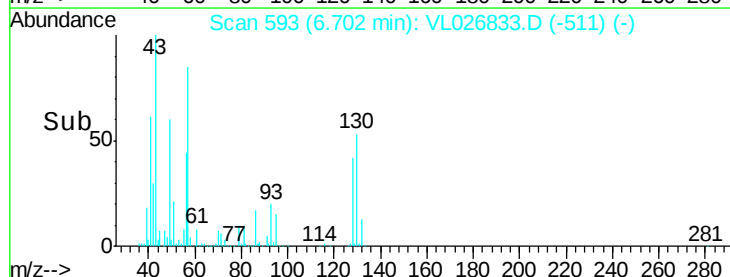
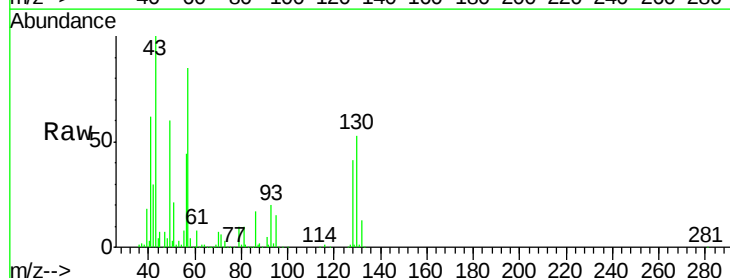
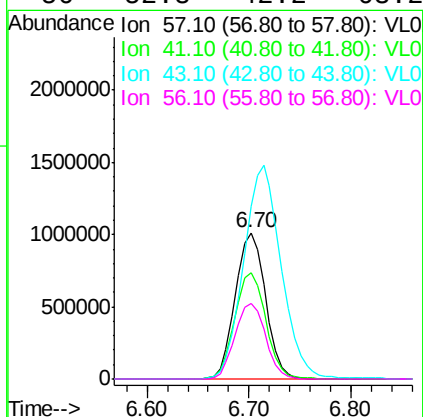
Manual Integrations
APPROVED

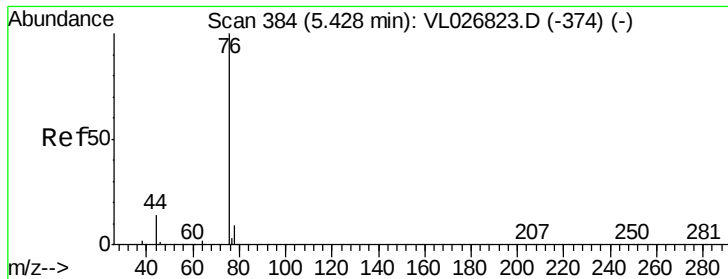
MMDadoda
2/11/2016 1:23:34 PM



#26
Hexane
Concen: 10.63 ppbv
RT: 6.70 min Scan# 593
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion	57	Resp	2078760
Ion	Ratio	Lower	Upper
57	100		
41	75.6	63.3	94.9
43	183.1	151.4	227.2
56	52.8	42.2	63.2





#27

Carbon Disulfide

Concen: 10.15 ppbv

RT: 5.43 min Scan# 384

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 76 Resp: 3419040

Ion Ratio Lower Upper

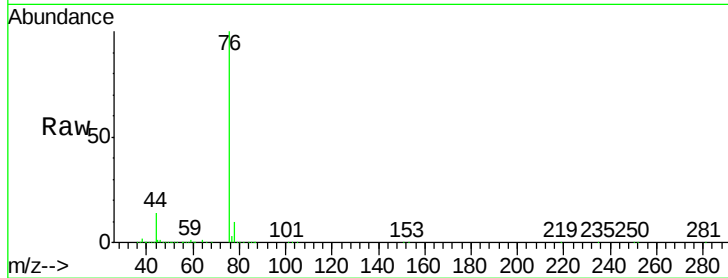
76 100

44 13.9 12.1 18.1

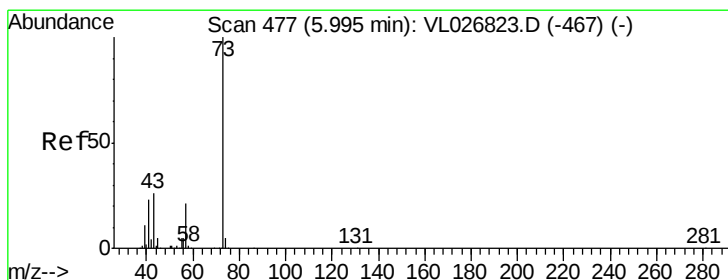
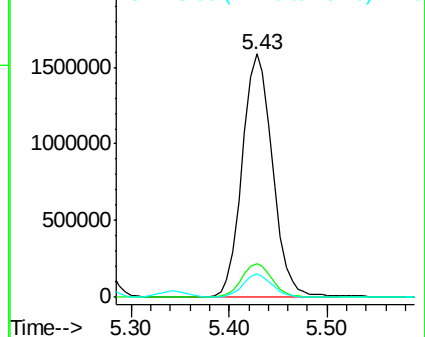
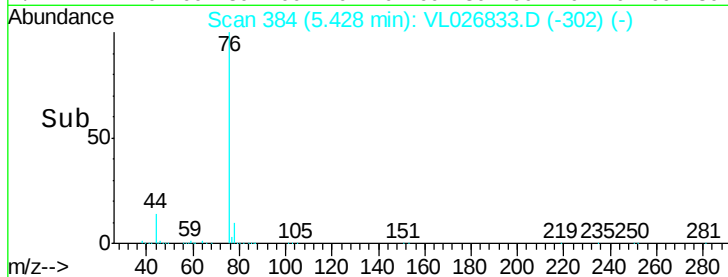
78 9.6 7.7 11.5

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.83 ppbv

RT: 5.99 min Scan# 477

Delta R.T. -0.00 min

Lab File: VL026833.D

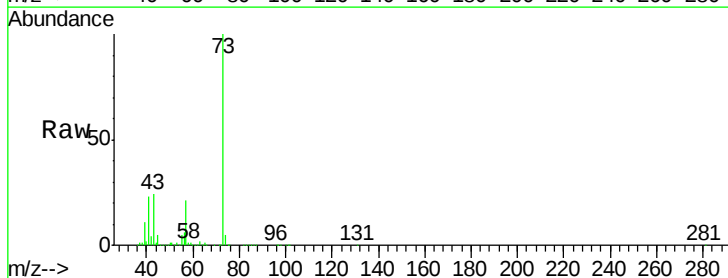
Acq: 10 Feb 2016 00:06

Tgt Ion: 73 Resp: 3308621

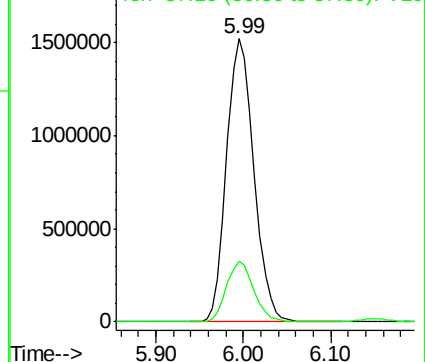
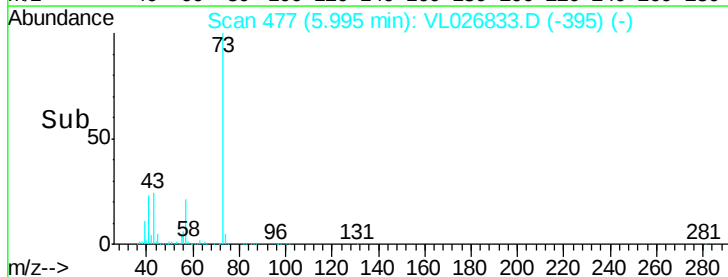
Ion Ratio Lower Upper

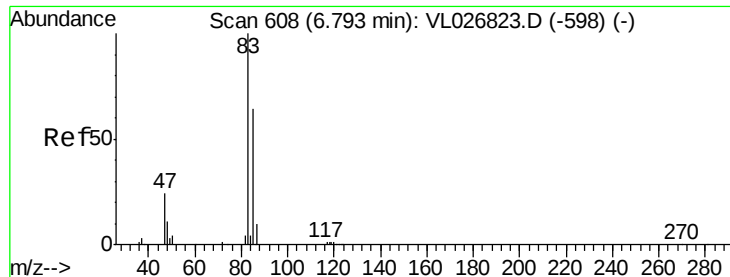
73 100

57 21.2 17.0 25.6



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.36 ppbv

RT: 6.79 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Tot Ion: 83 Resp: 3152649

Ion Ratio Lower Upper

83 100

85 65.5 51.5 77.3

Instrument :

MSVOA_L

ClientSampleId :

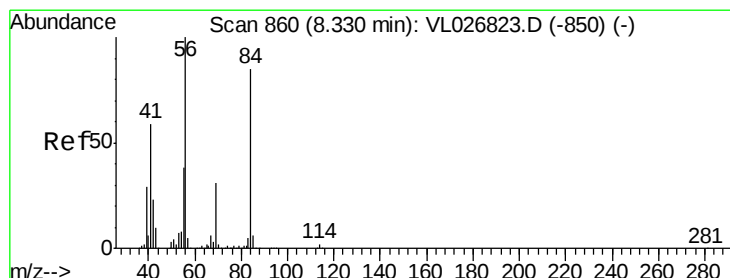
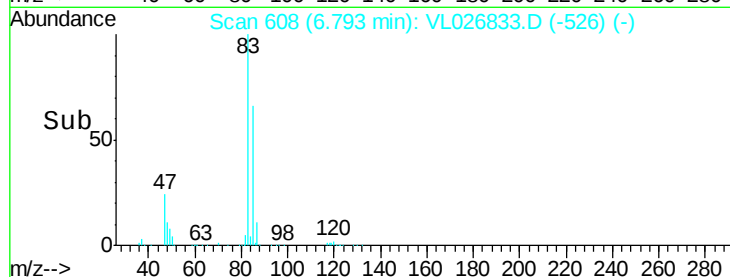
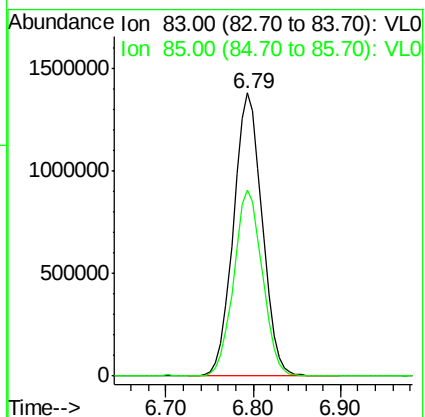
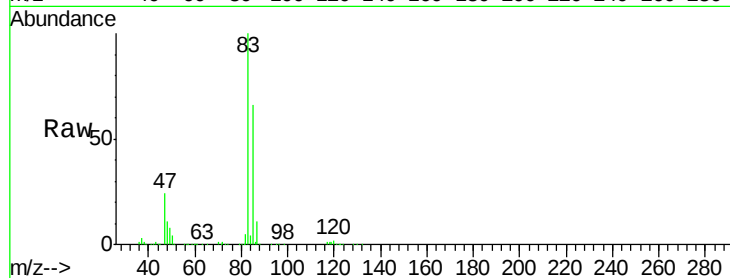
VL0209ABS01

Manual Integrations

APPROVED

MMDadoda

2/11/2016 1:23:34 PM



#30

Cyclohexane

Concen: 11.68 ppbv

RT: 8.33 min Scan# 860

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

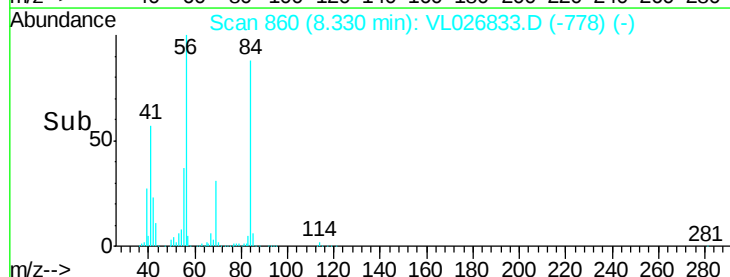
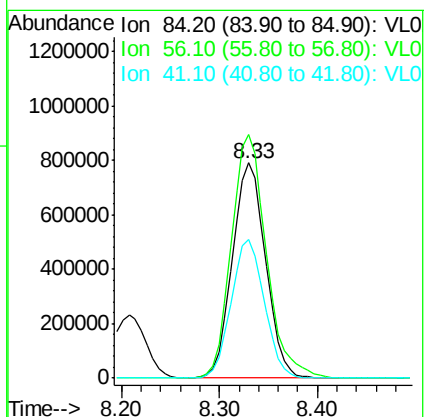
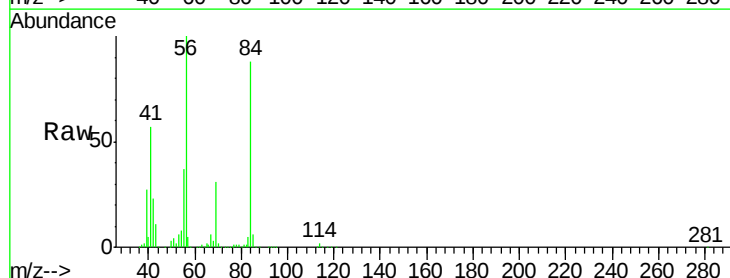
Tgt Ion: 84 Resp: 1858466

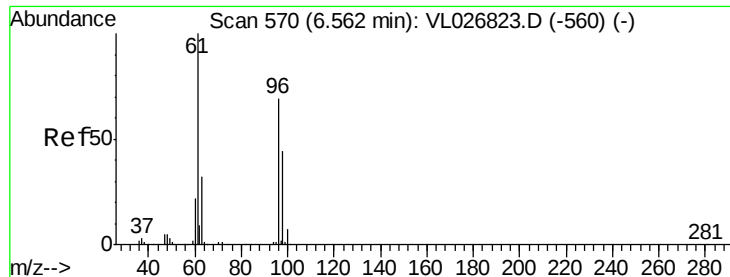
Ion Ratio Lower Upper

84 100

56 119.7 99.4 149.2

41 65.1 56.7 85.1





#31

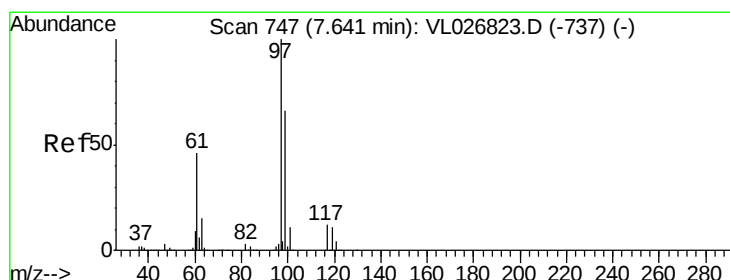
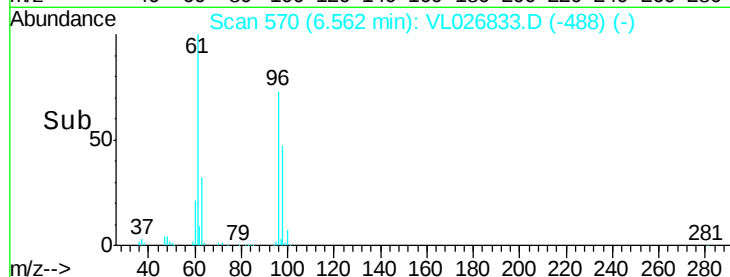
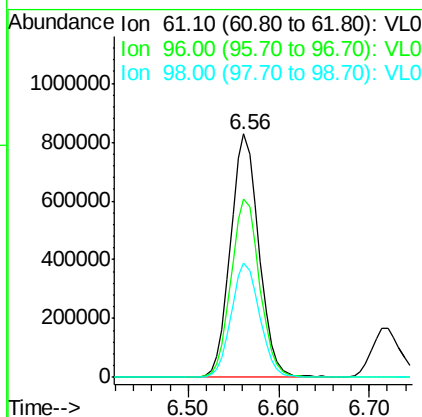
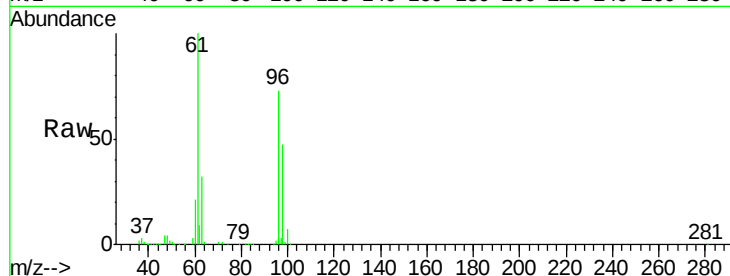
cis-1,2-Dichloroethene
 Concen: 11.04 ppbv
 RT: 6.56 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	73.3	55.2	82.8
98	46.9	35.2	52.8

Manual Integrations
 APPROVED

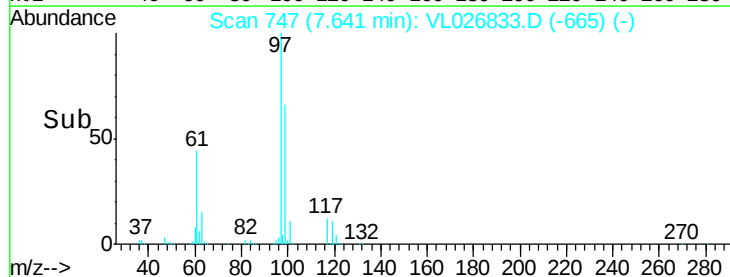
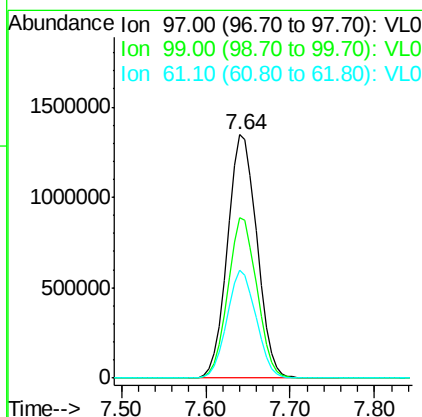
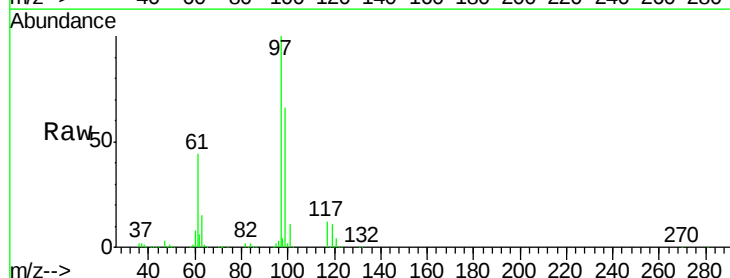
MMDadoda
 2/11/2016 1:23:34 PM

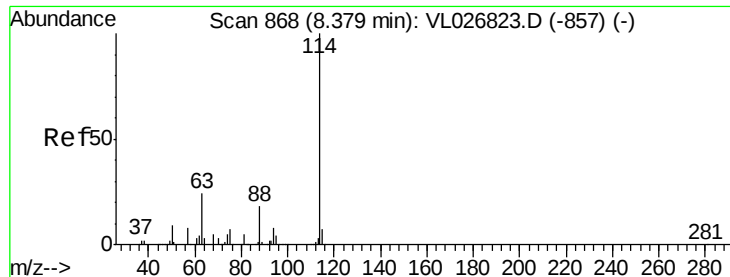


#32

1,1,1-Trichloroethane
 Concen: 10.46 ppbv
 RT: 7.64 min Scan# 747
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.0	78.0
61	44.1	36.2	54.4





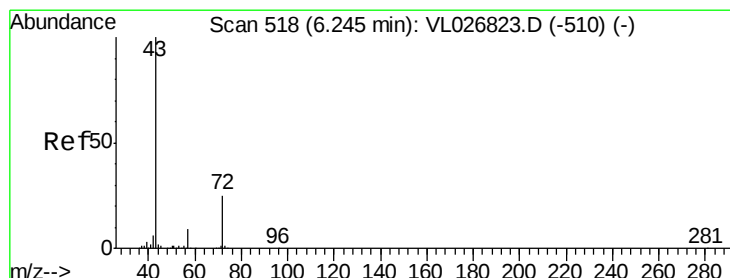
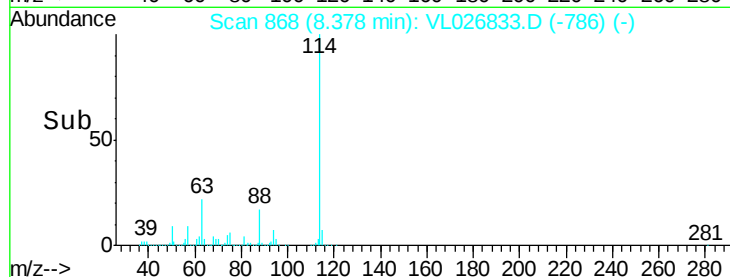
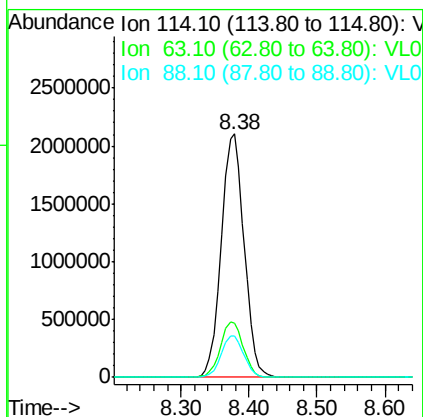
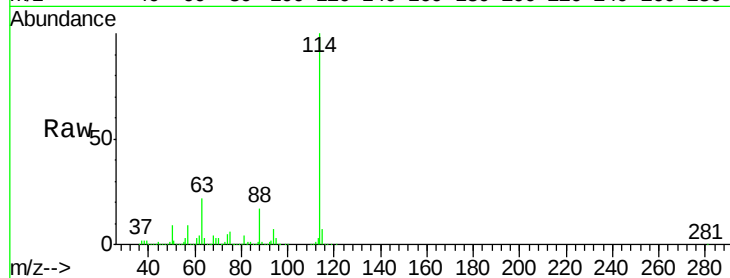
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.38 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Tot Ion:114 Resp: 4899822
 Ion Ratio Lower Upper
 114 100
 63 23.0 19.7 29.5
 88 16.8 13.8 20.6

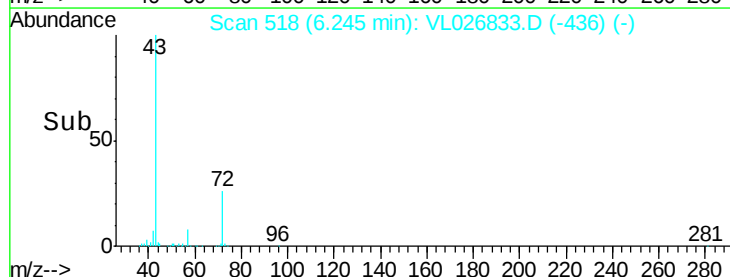
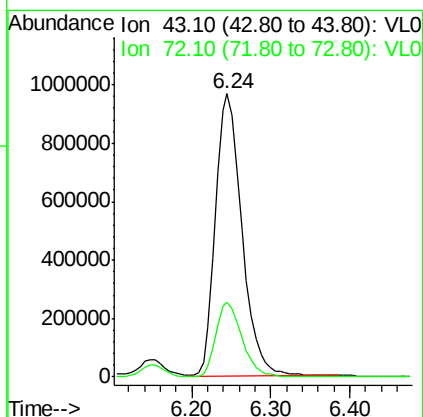
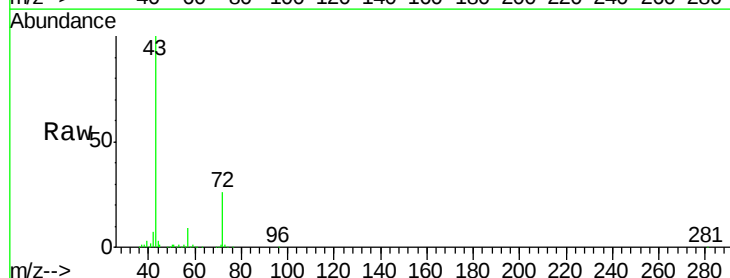
Manual Integrations
 APPROVED

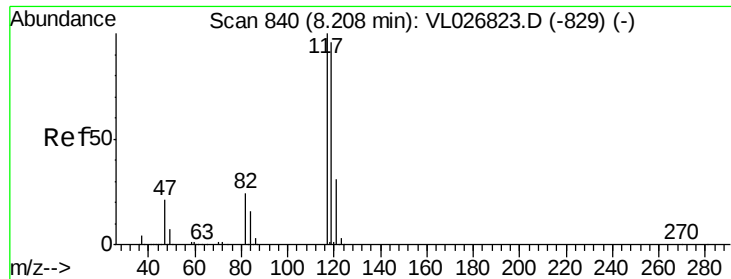
MMDadoda
 2/11/2016 1:23:34 PM



#34
 2-Butanone
 Concen: 9.39 ppbv
 RT: 6.24 min Scan# 518
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Tgt Ion: 43 Resp: 2254302
 Ion Ratio Lower Upper
 43 100
 72 26.1 19.8 29.8





#35

Carbon Tetrachloride

Concen: 9.87 ppbv

RT: 8.21 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion:117 Resp: 3512783

Ion Ratio Lower Upper

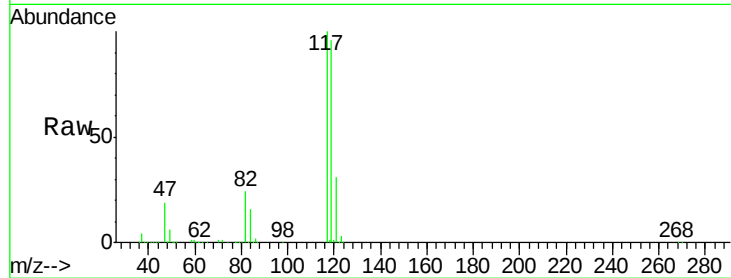
117 100

119 95.7 76.6 115.0

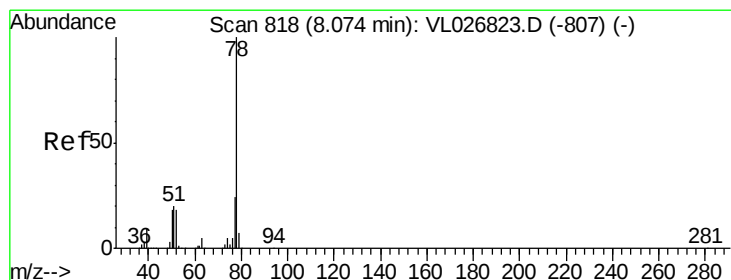
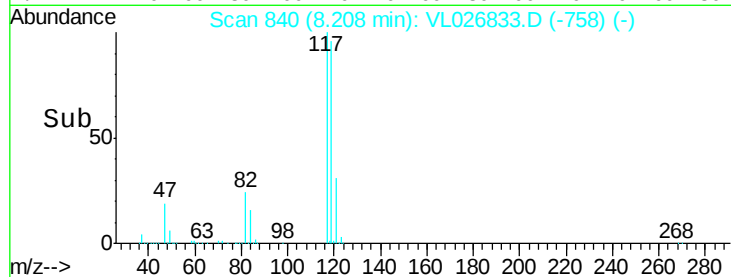
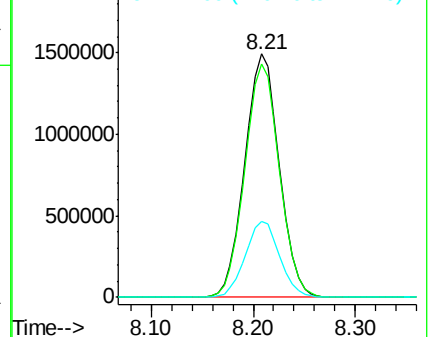
121 31.0 25.0 37.4

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 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: 10.50 ppbv

RT: 8.07 min Scan# 818

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

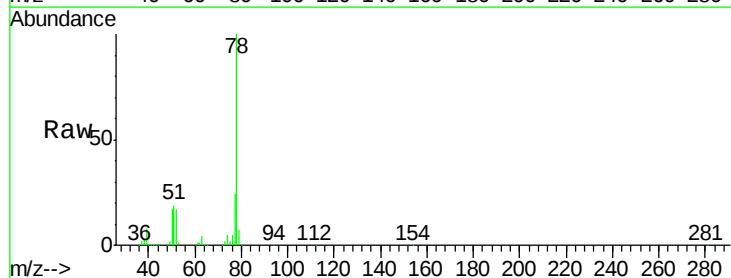
Tgt Ion: 78 Resp: 4082061

Ion Ratio Lower Upper

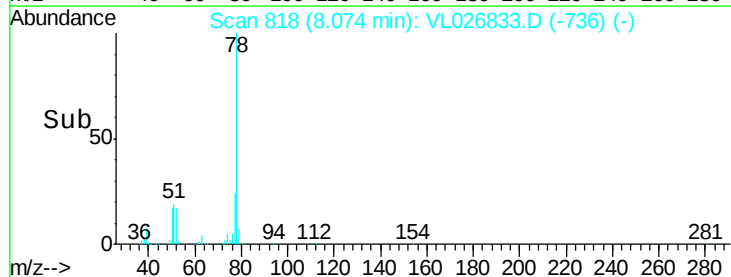
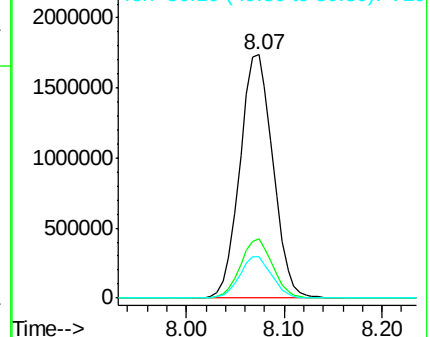
78 100

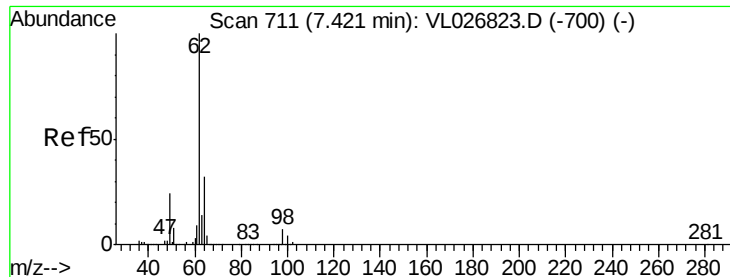
77 24.2 19.0 28.6

50 17.0 14.2 21.4



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





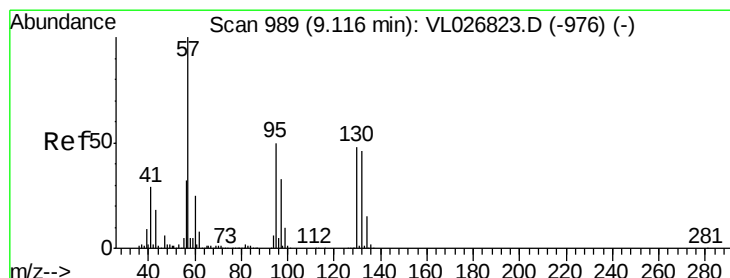
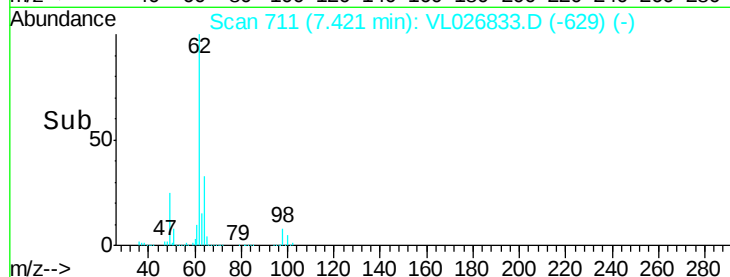
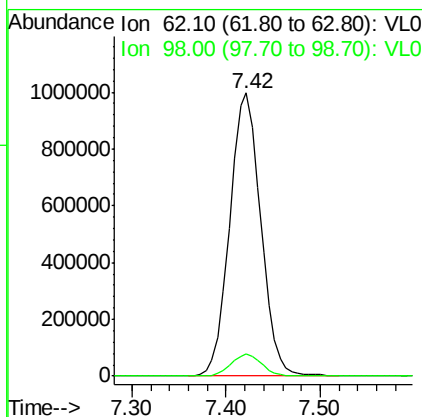
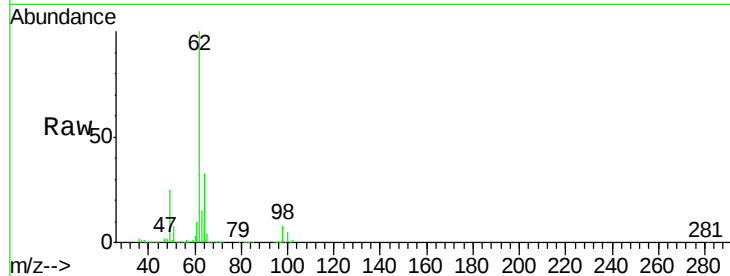
#37
1,2-Dichloroethane
Concen: 9.39 ppbv
RT: 7.42 min Scan# 711
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion: 62 Resp: 2286860
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2

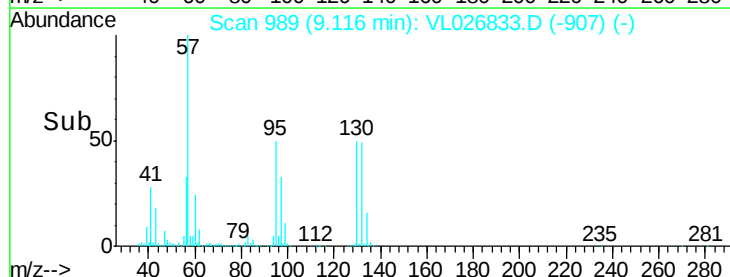
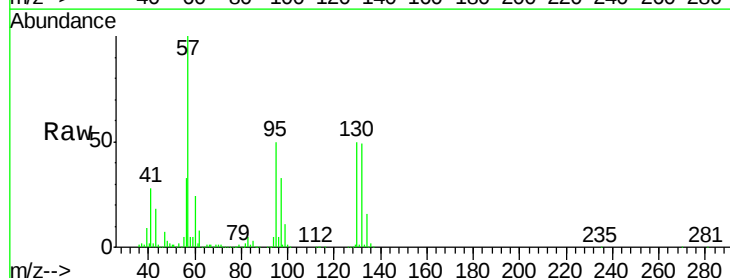
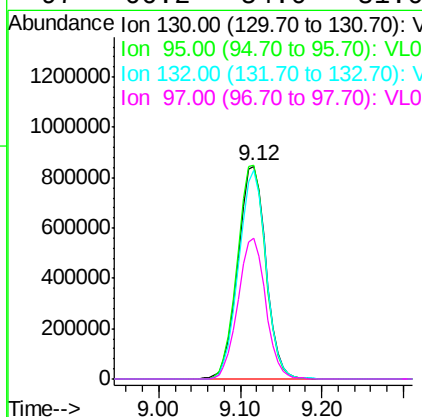
Manual Integrations
APPROVED

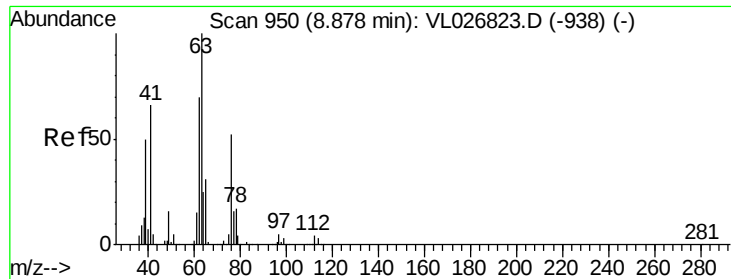
MMDadoda
2/11/2016 1:23:34 PM



#38
Trichloroethene
Concen: 11.23 ppbv
RT: 9.12 min Scan# 989
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion:130 Resp: 2012298
Ion Ratio Lower Upper
130 100
95 100.4 83.0 124.6
132 98.0 76.0 114.0
97 66.2 54.0 81.0





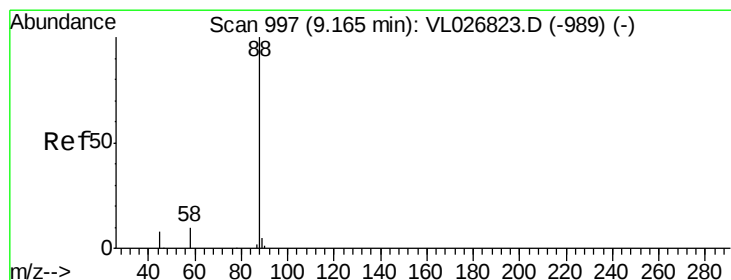
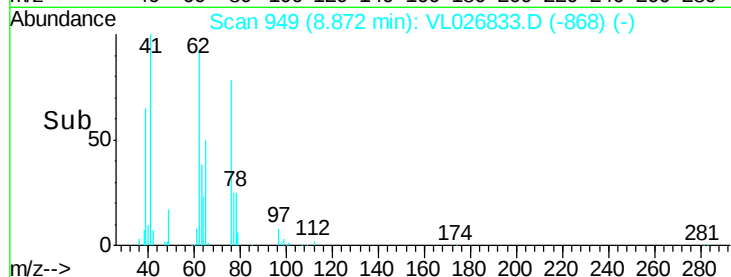
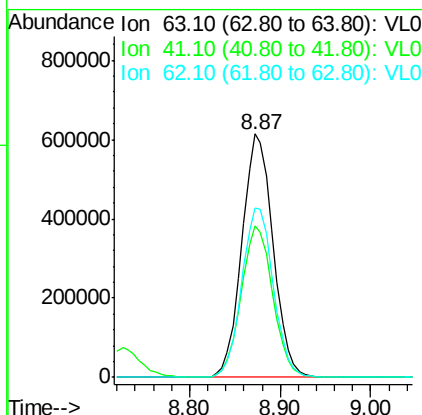
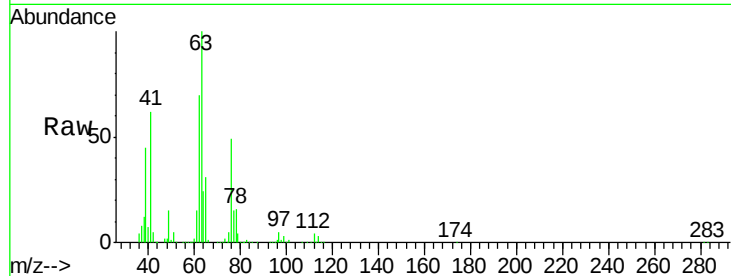
#39
 1,2-Dichloropropane
 Concen: 9.94 ppbv
 RT: 8.87 min Scan# 949
 Delta R.T. -0.01 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Tot Ion: 63 Resp: 1460758
 Ion Ratio Lower Upper
 63 100
 41 61.9 53.2 79.8
 62 69.7 56.0 84.0

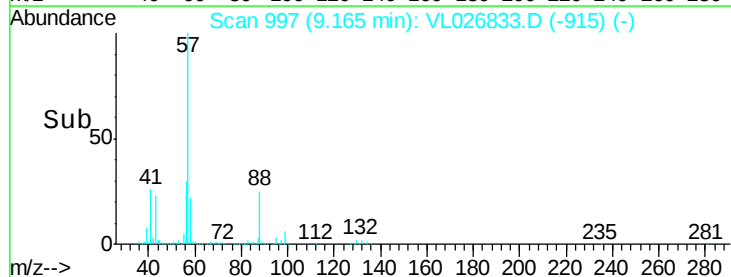
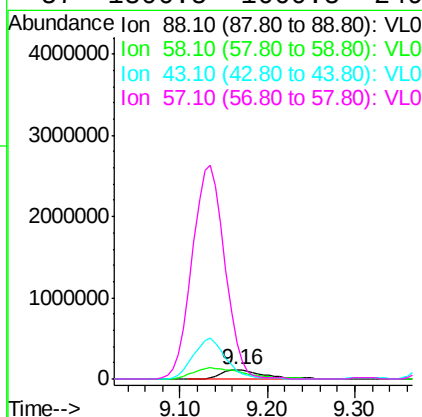
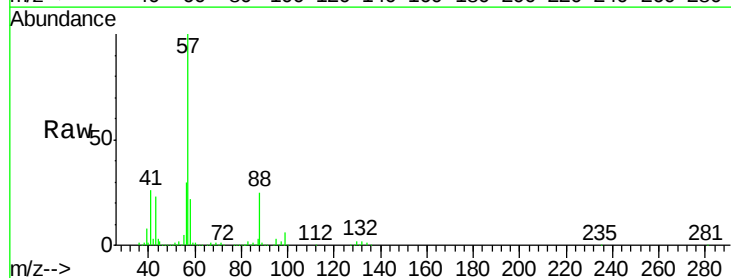
Manual Integrations
 APPROVED

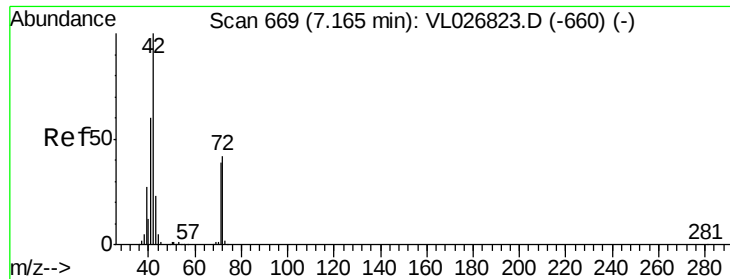
MMDadoda
 2/11/2016 1:23:34 PM



#40
 1,4-Dioxane
 Concen: 14.56 ppbv
 RT: 9.16 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Tgt Ion: 88 Resp: 379653
 Ion Ratio Lower Upper
 88 100
 58 152.7 135.6 203.4
 43 353.1 332.3 498.5
 57 1806.5 1660.5 2490.7





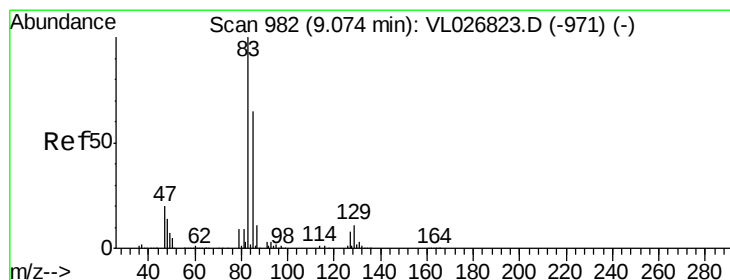
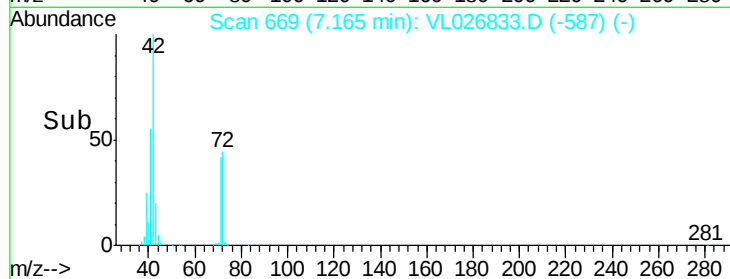
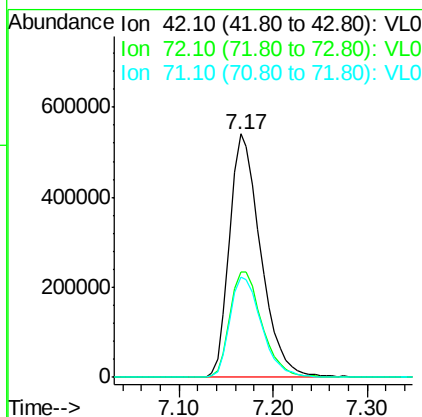
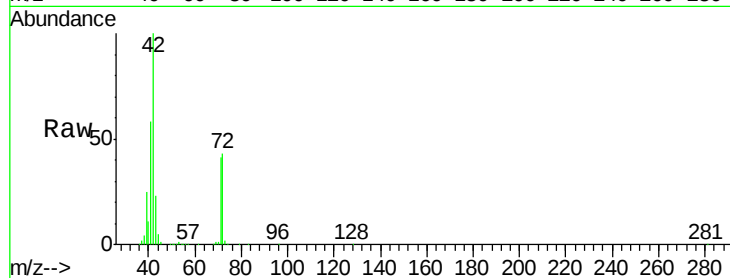
#41
Tetrahydrofuran
Concen: 10.59 ppbv
RT: 7.17 min Scan# 669
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion: 42 Resp: 1252463
Ion Ratio Lower Upper
42 100
72 44.6 33.4 50.0
71 41.9 32.1 48.1

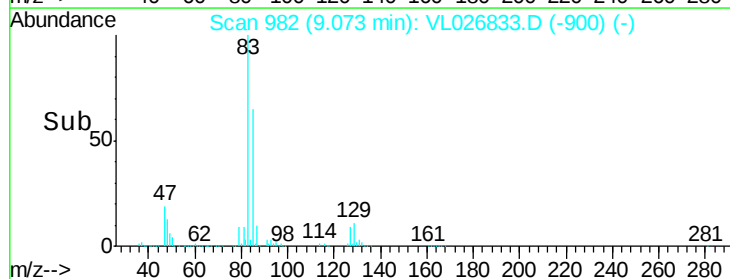
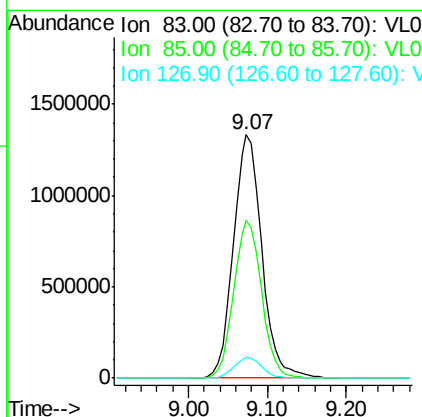
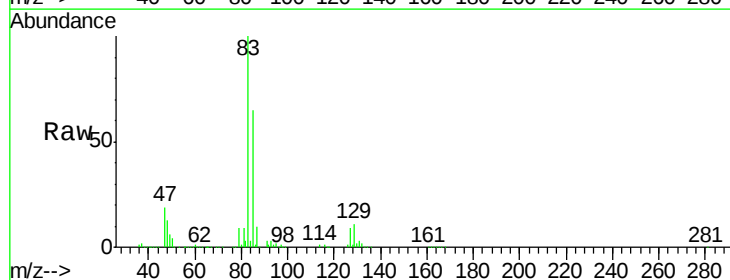
Manual Integrations
APPROVED

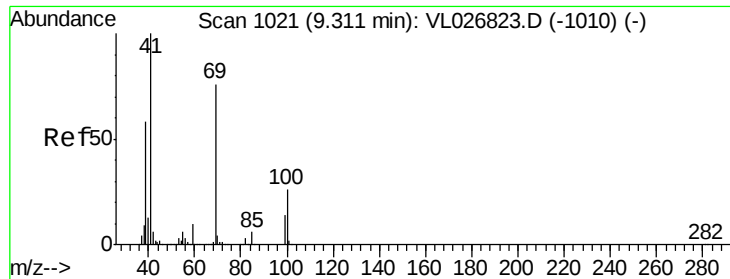
MMDadoda
2/11/2016 1:23:34 PM



#42
Bromodichloromethane
Concen: 10.22 ppbv
RT: 9.07 min Scan# 982
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion: 83 Resp: 3350410
Ion Ratio Lower Upper
83 100
85 65.1 51.8 77.6
127 8.5 6.4 9.6





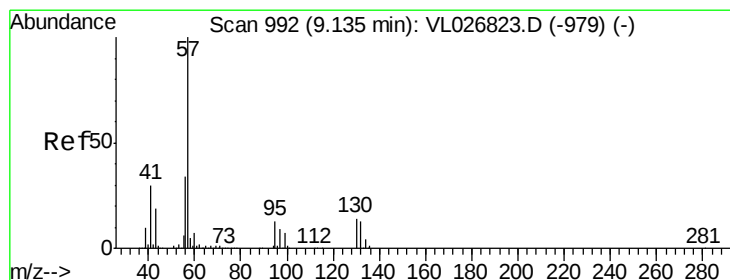
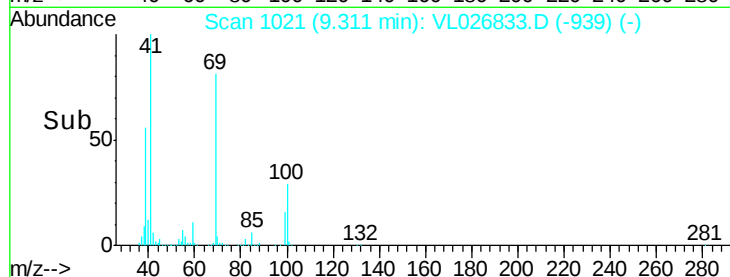
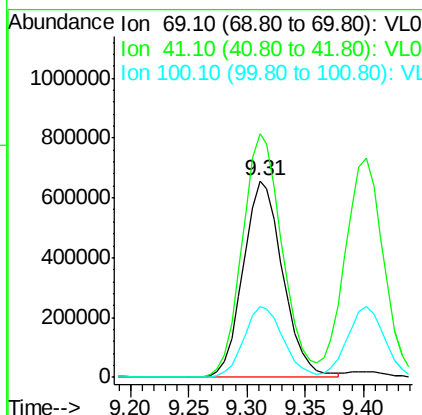
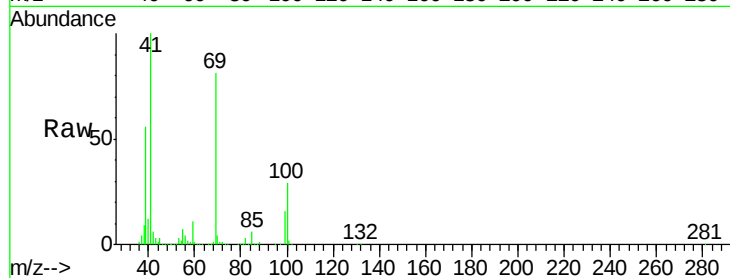
#43
Methvl Methacrilate
Concen: 11.42 ppbv
RT: 9.31 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion: 69 Resp: 1557235
Ion Ratio Lower Upper
69 100
41 124.4 106.5 159.7
100 35.9 27.2 40.8

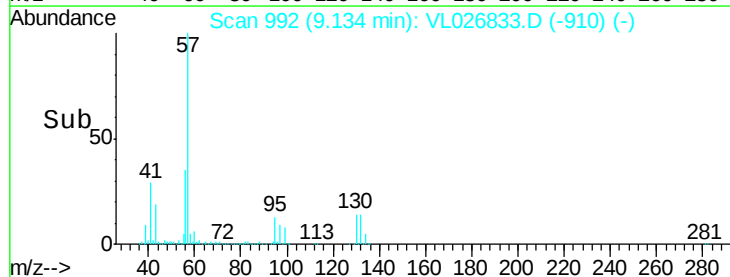
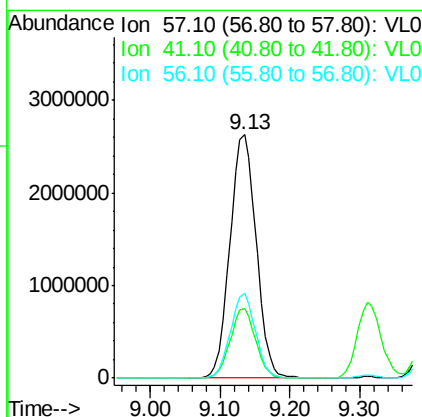
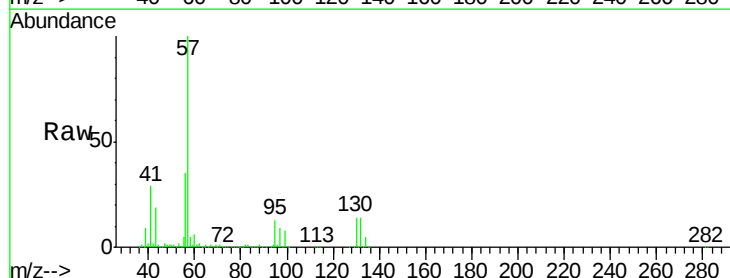
Manual Integrations
APPROVED

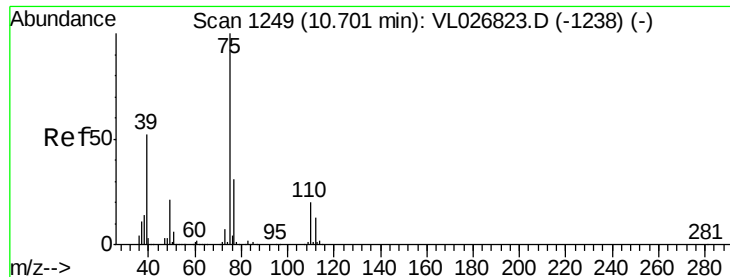
MMDadoda
2/11/2016 1:23:34 PM



#44
2,2,4-Trimethylpentane
Concen: 10.32 ppbv
RT: 9.13 min Scan# 992
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion: 57 Resp: 6857849
Ion Ratio Lower Upper
57 100
41 27.6 23.2 34.8
56 33.0 26.2 39.4





#45

t-1,3-Dichloropropene

Concen: 11.82 ppbv

RT: 10.70 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 75 Resp: 2166993

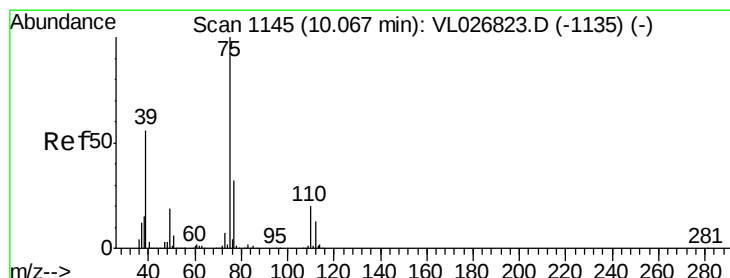
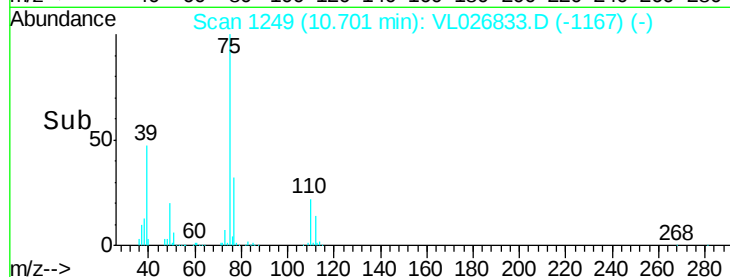
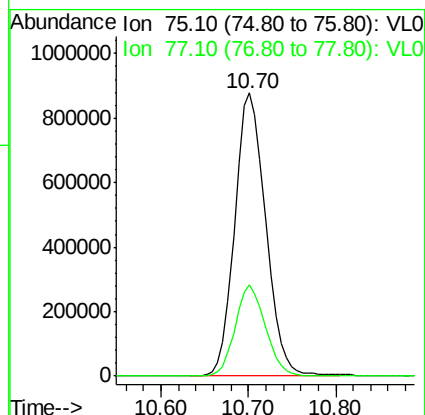
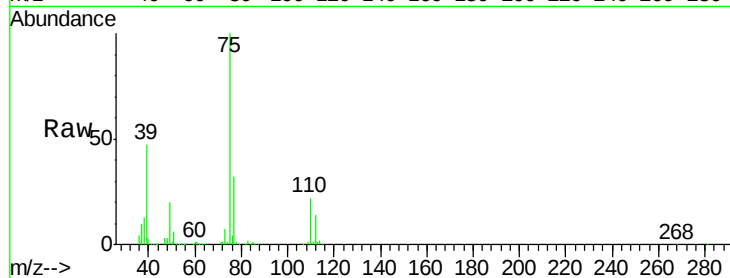
Ion Ratio Lower Upper

75 100

77 32.2 25.0 37.6

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#46

cis-1,3-Dichloropropene

Concen: 11.75 ppbv

RT: 10.07 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

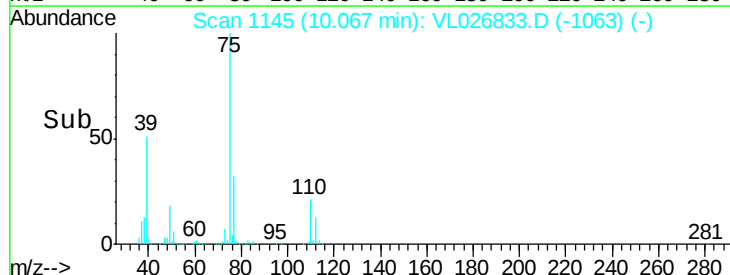
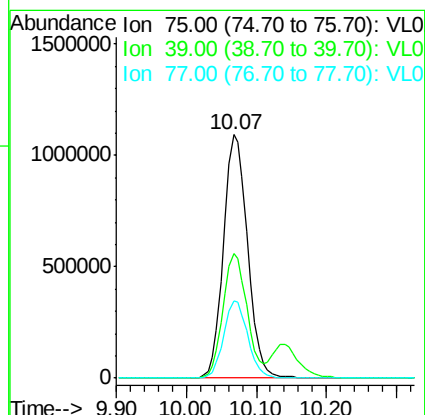
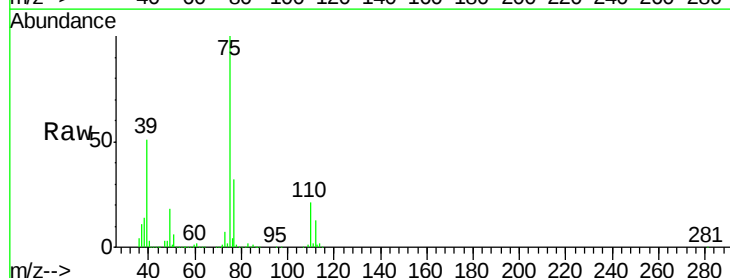
Tgt Ion: 75 Resp: 2622757

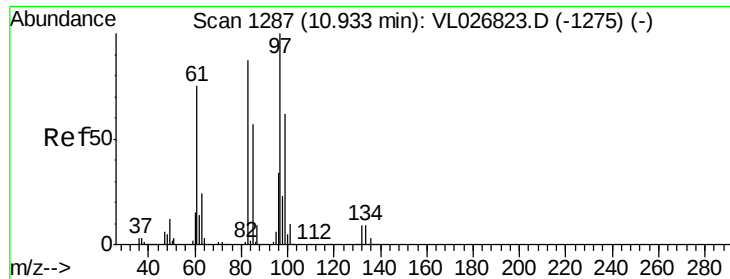
Ion Ratio Lower Upper

75 100

39 51.0 45.0 67.6

77 31.6 25.2 37.8





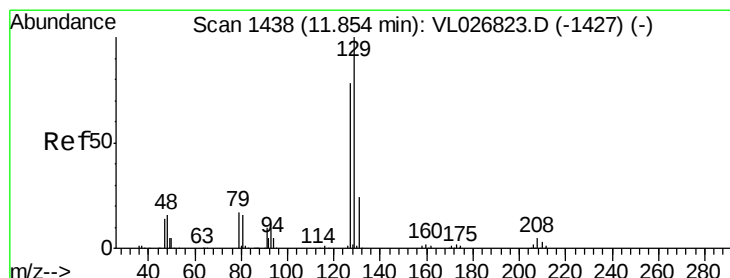
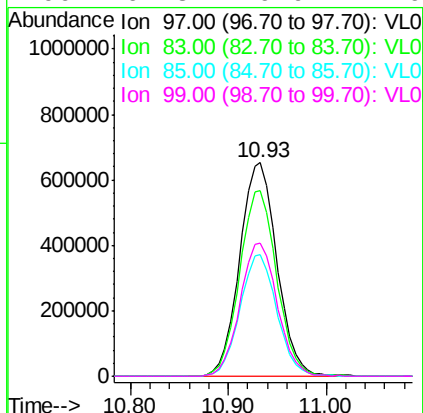
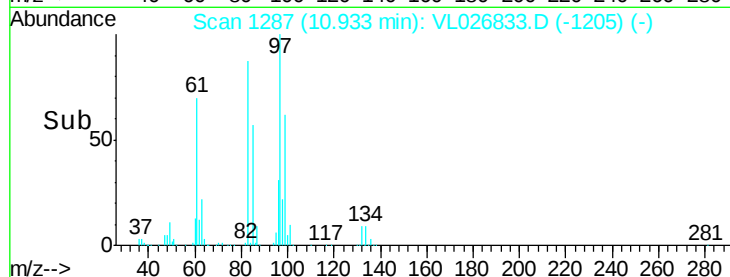
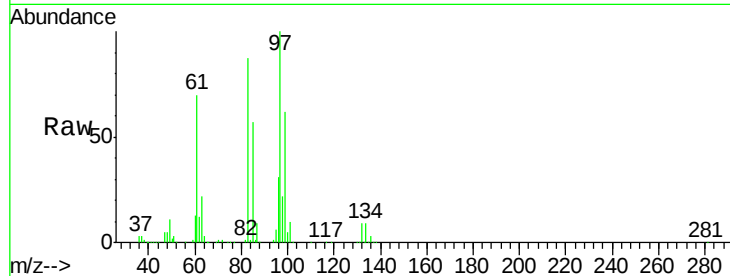
#47
 1,1,2-Trichloroethane
 Concen: 10.63 ppbv
 RT: 10.93 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	86.8	69.7	104.5	
85	56.8	45.3	67.9	
99	62.3	49.9	74.9	

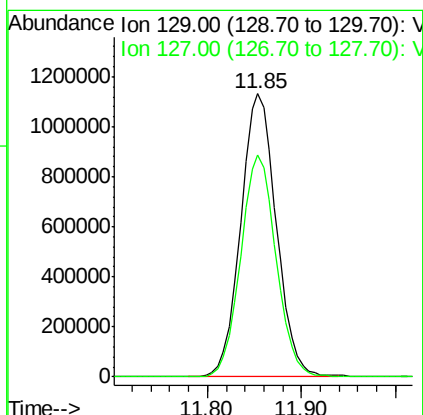
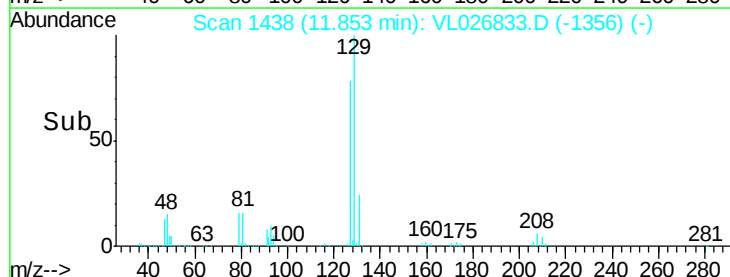
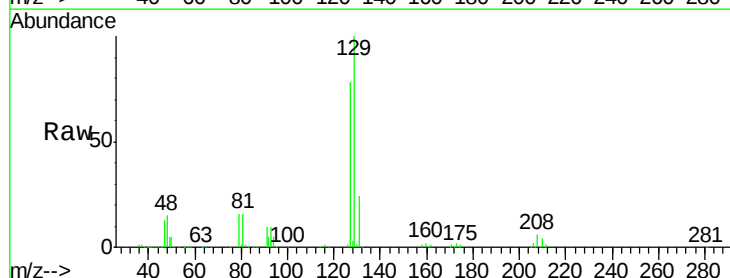
Manual Integrations
 APPROVED

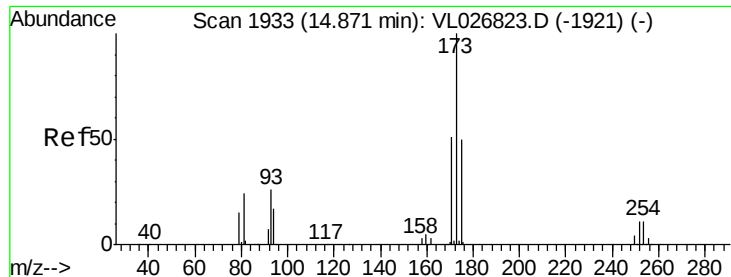
MMDadoda
 2/11/2016 1:23:34 PM



#48
 Dibromochloromethane
 Concen: 11.25 ppbv
 RT: 11.85 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.6	39.6	119.0	





#49

Bromoform

Concen: 11.91 ppbv

RT: 14.87 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion:173 Resp: 2385092

Ion Ratio Lower Upper

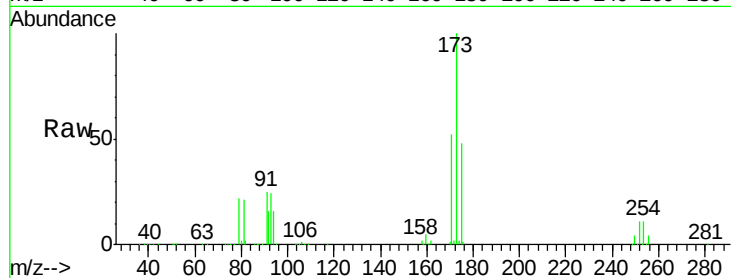
173 100

175 49.0 39.2 58.8

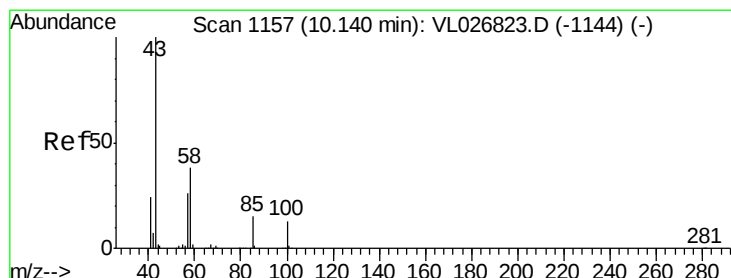
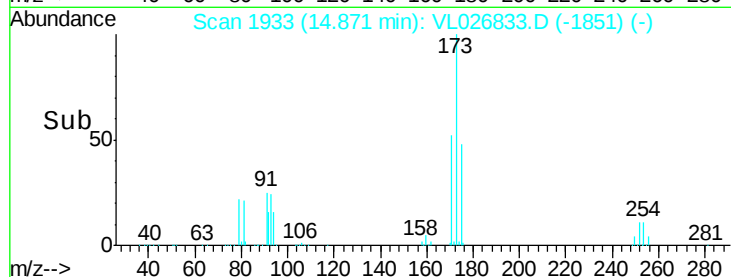
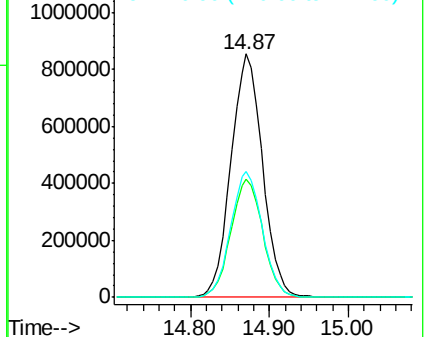
171 51.9 41.4 62.0

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.60 ppbv

RT: 10.14 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VL026833.D

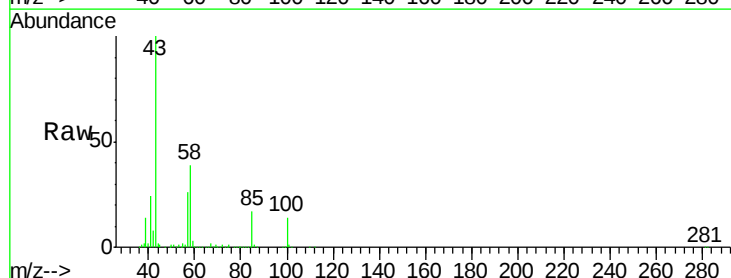
Acq: 10 Feb 2016 00:06

Tgt Ion: 43 Resp: 3002237

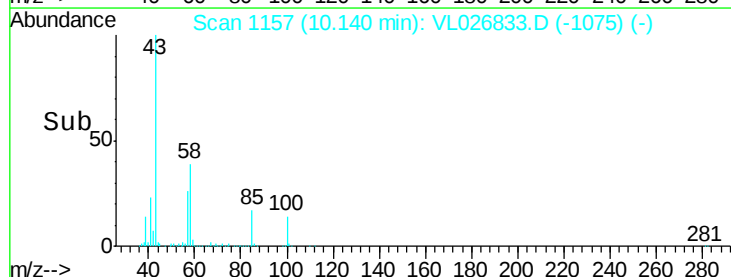
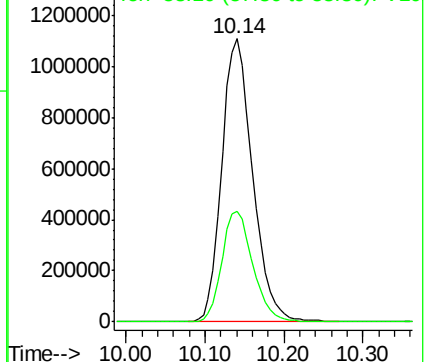
Ion Ratio Lower Upper

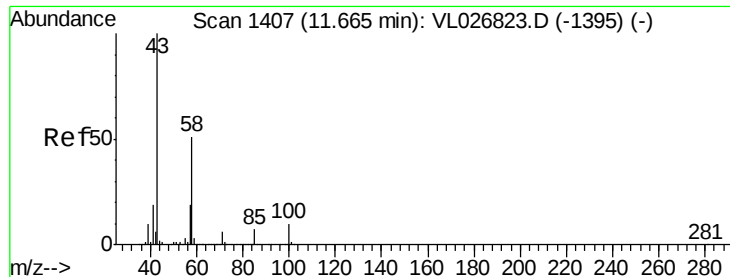
43 100

58 39.7 30.3 45.5



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





#51

2-Hexanone

Concen: 11.44 ppbv

RT: 11.66 min Scan# 1407

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 43 Resp: 2716712

Ion Ratio Lower Upper

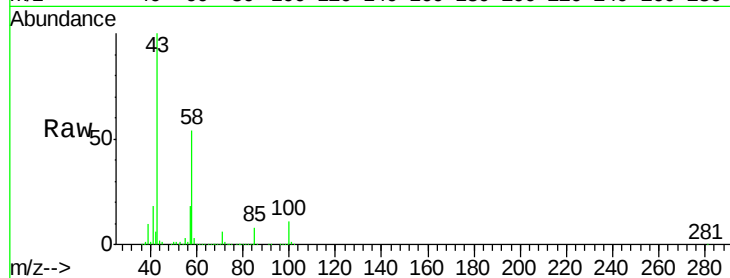
43 100

58 53.4 40.4 60.6

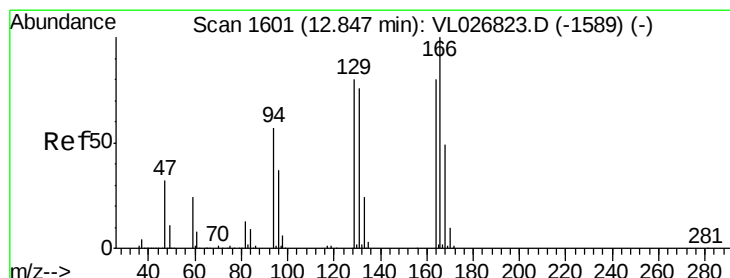
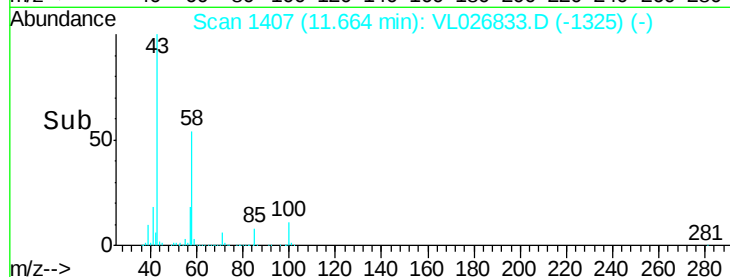
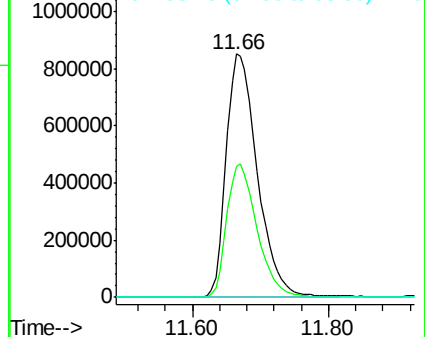
98 0.3 0.2 0.4

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 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: 11.84 ppbv

RT: 12.84 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Tgt Ion: 164 Resp: 1812223

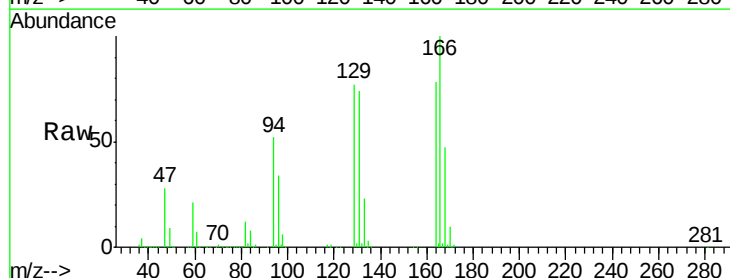
Ion Ratio Lower Upper

164 100

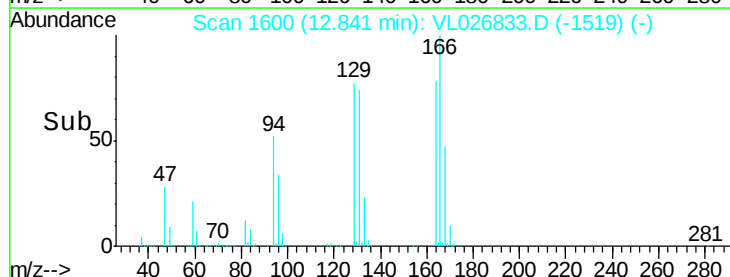
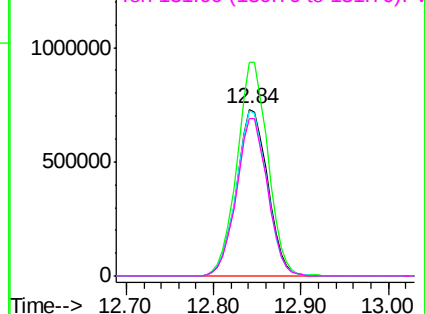
166 128.3 100.3 150.5

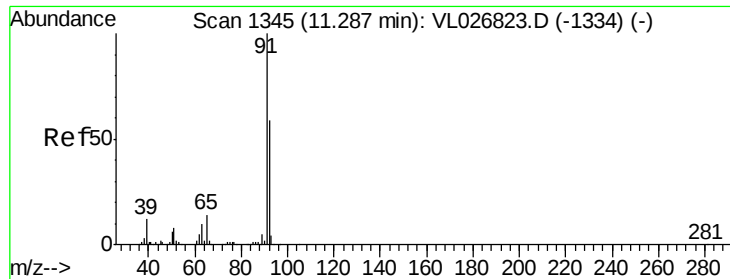
129 99.2 80.0 120.0

131 94.3 76.7 115.1



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: 11.59 ppbv

RT: 11.29 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 91 Resp: 5070905

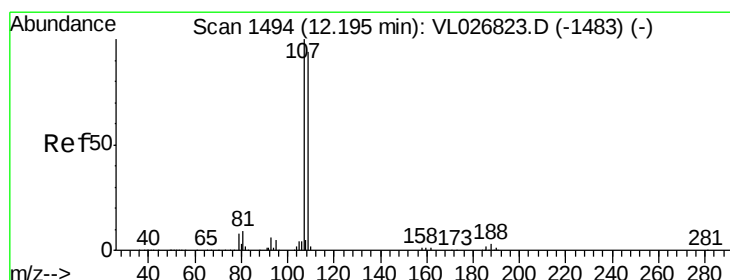
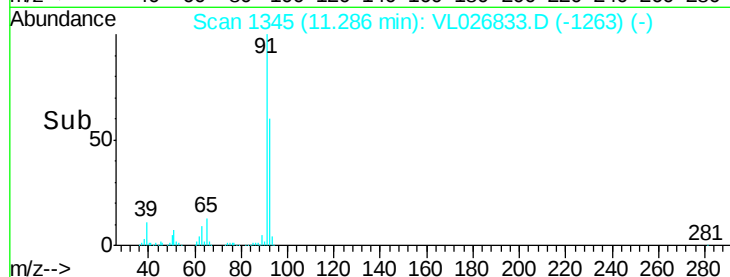
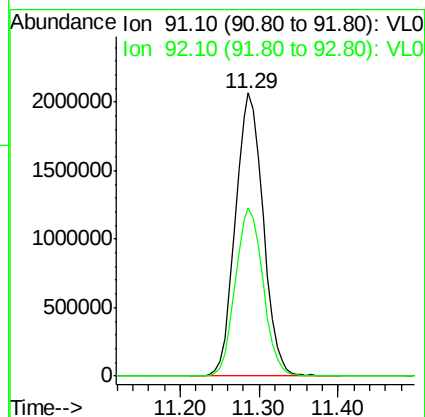
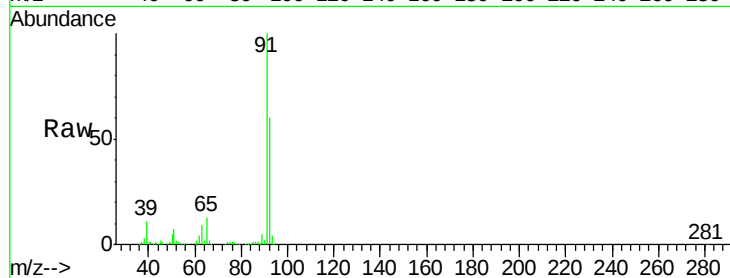
Ion Ratio Lower Upper

91 100

92 59.6 47.3 70.9

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#54

1,2-Dibromoethane

Concen: 10.92 ppbv

RT: 12.19 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL026833.D

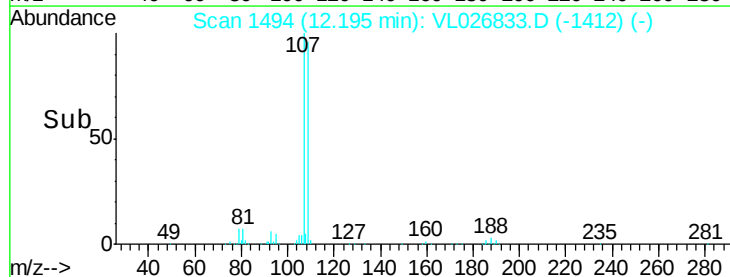
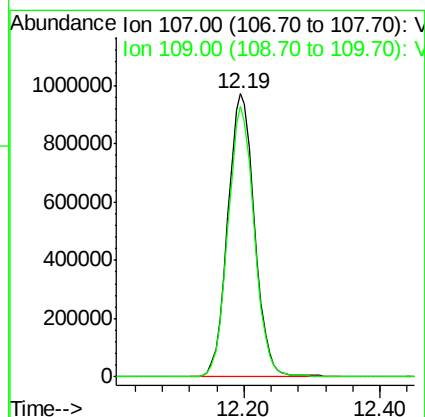
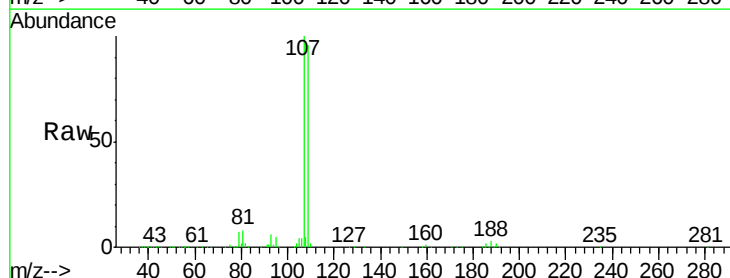
Acq: 10 Feb 2016 00:06

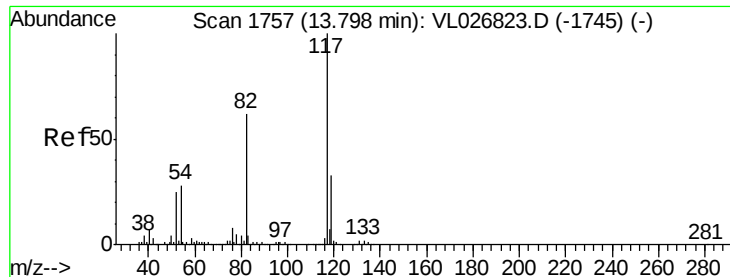
Tgt Ion: 107 Resp: 2642338

Ion Ratio Lower Upper

107 100

109 95.5 75.0 112.4





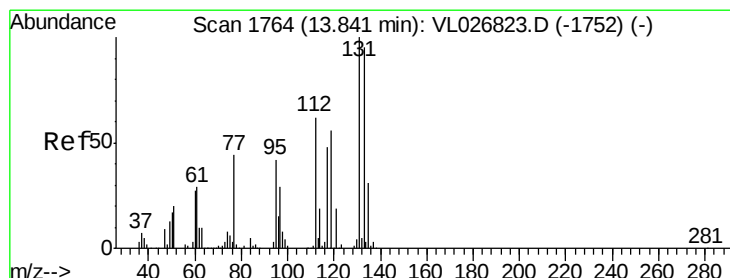
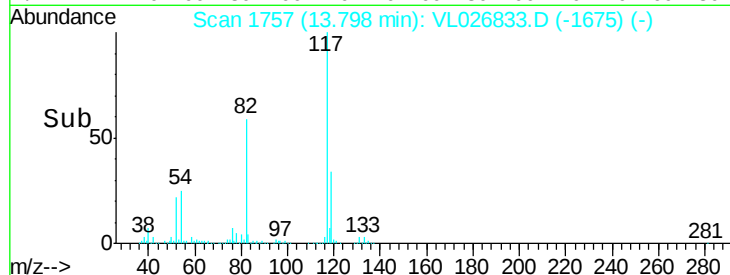
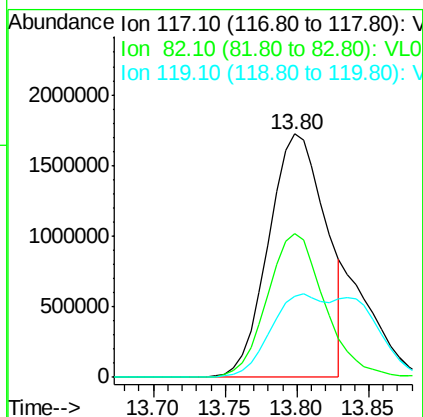
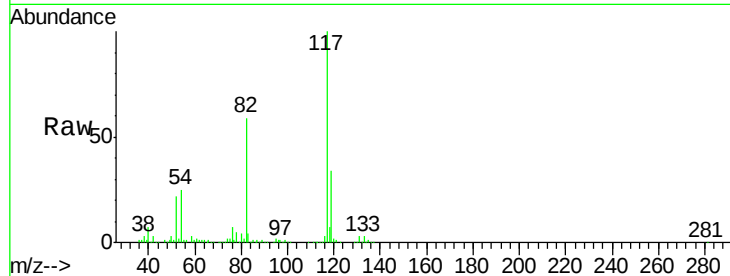
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.80 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion:117 Resp: 4766149
Ion Ratio Lower Upper
117 100
82 60.1 51.9 77.9
119 60.0 48.5 72.7

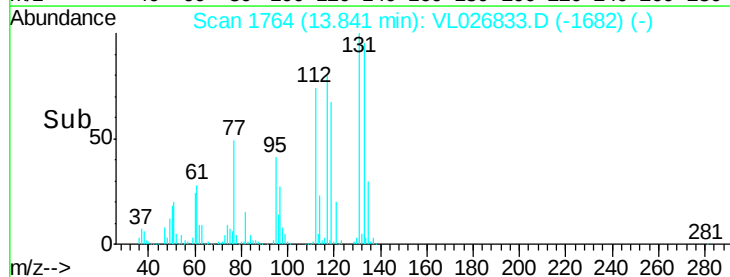
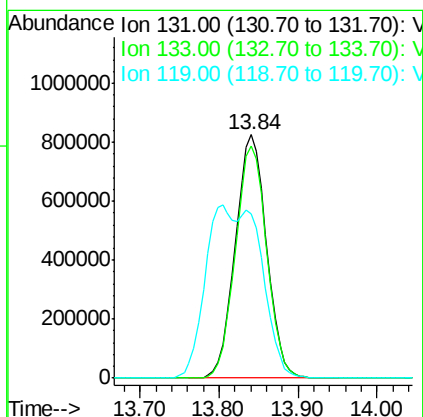
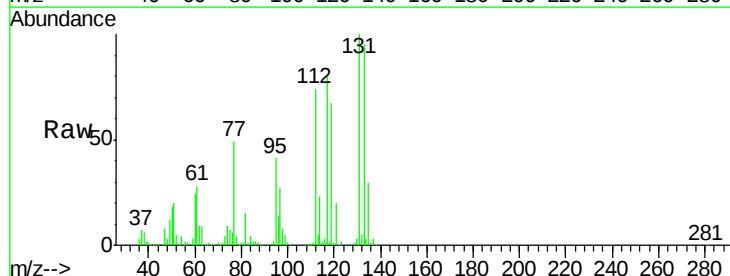
Manual Integrations
APPROVED

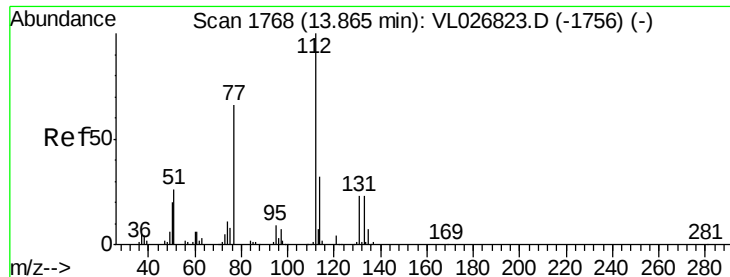
MMDadoda
2/11/2016 1:23:34 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 10.80 ppbv
RT: 13.84 min Scan# 1764
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion:131 Resp: 2268573
Ion Ratio Lower Upper
131 100
133 96.0 76.4 114.6
119 126.1 99.8 149.8





#57

Chlorobenzene

Concen: 10.76 ppbv

RT: 13.87 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion:112 Resp: 4244366

Ion Ratio Lower Upper

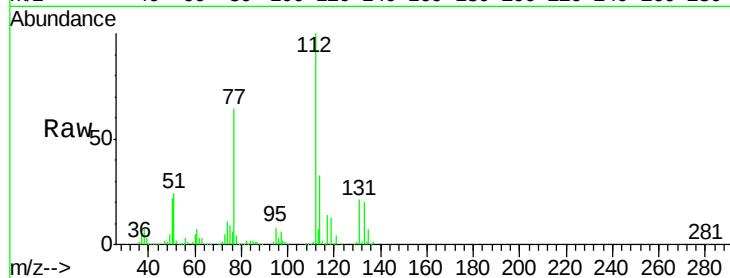
112 100

77 63.5 53.3 79.9

114 33.0 28.9 35.3

Manual Integrations
APPROVED

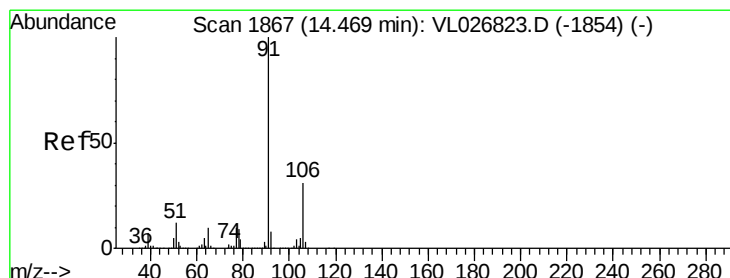
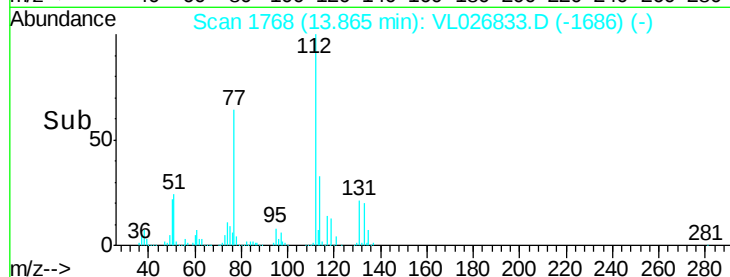
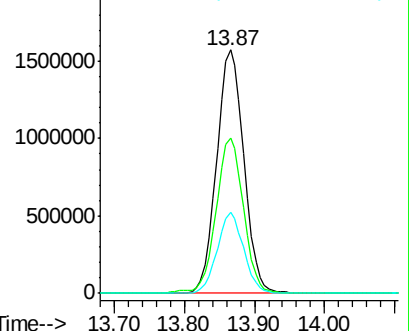
MMDadoda
2/11/2016 1:23:34 PM



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: 11.56 ppbv

RT: 14.46 min Scan# 1866

Delta R.T. -0.01 min

Lab File: VL026833.D

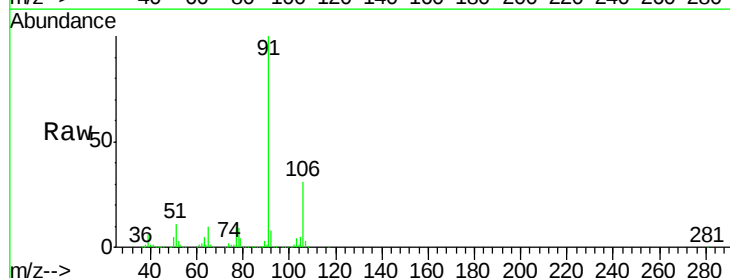
Acq: 10 Feb 2016 00:06

Tgt Ion: 91 Resp: 6635075

Ion Ratio Lower Upper

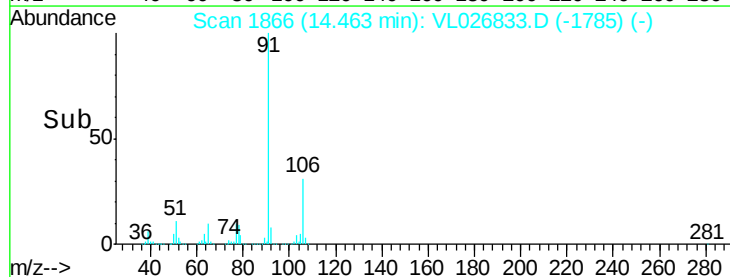
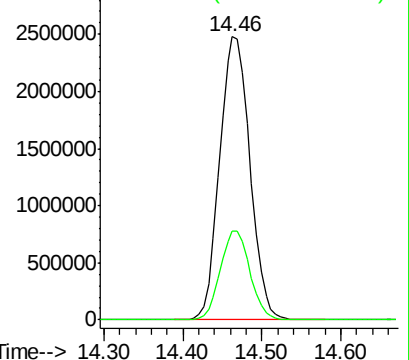
91 100

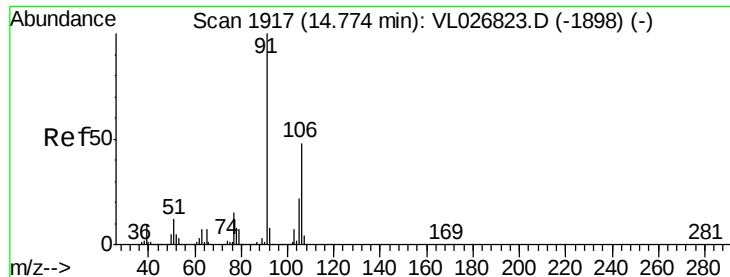
106 31.5 24.9 37.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





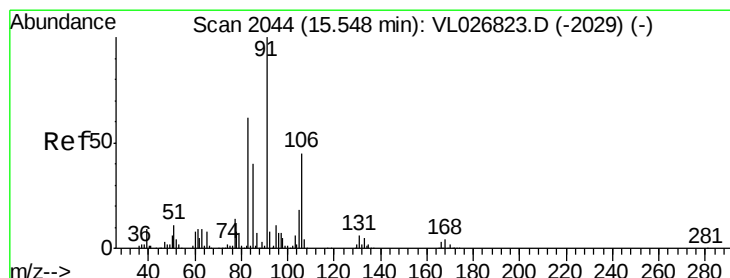
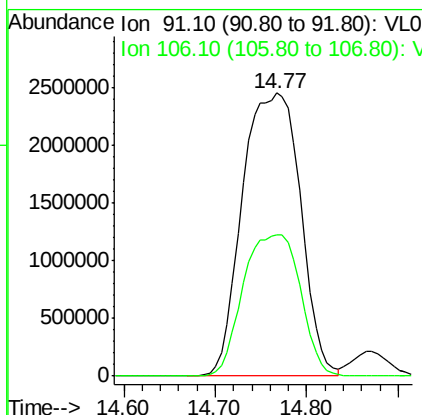
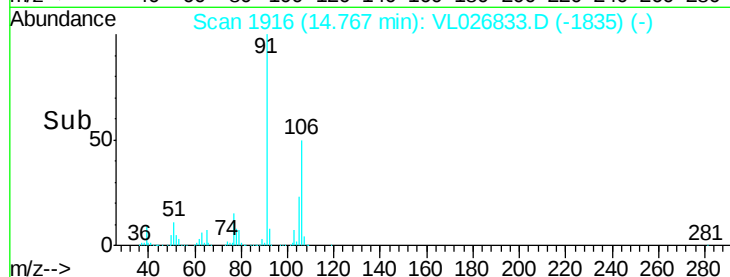
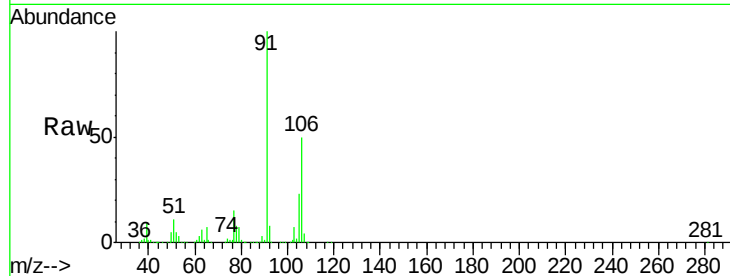
#59
m/p-Xylene
Concen: 22.05 ppbv m
RT: 14.77 min Scan# 1916
Delta R.T. -0.01 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion: 91 Resp:10812631
Ion Ratio Lower Upper
91 100
106 49.5 38.2 57.2

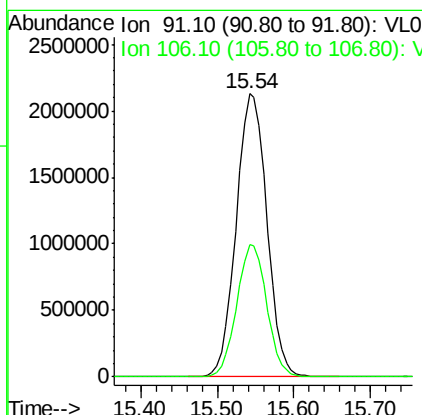
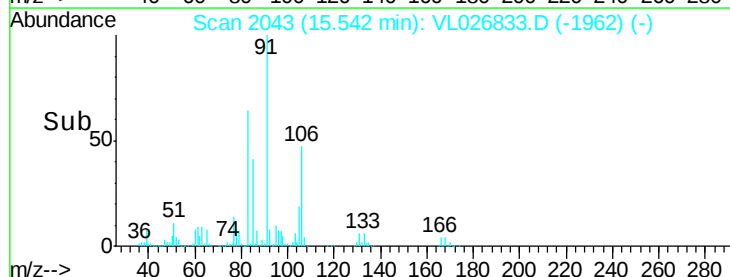
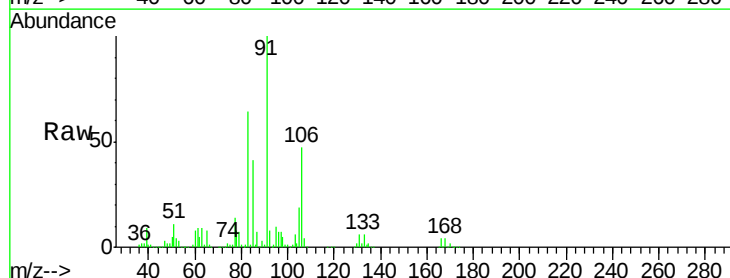
Manual Integrations
APPROVED

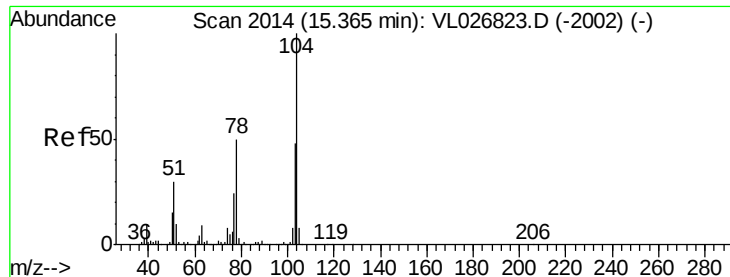
MMDadoda
2/11/2016 1:23:34 PM



#60
o-Xylene
Concen: 11.02 ppbv
RT: 15.54 min Scan# 2043
Delta R.T. -0.01 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion: 91 Resp: 5911584
Ion Ratio Lower Upper
91 100
106 45.8 22.3 66.8





#61

Stvrene

Concen: 12.75 ppbv

RT: 15.36 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion:104 Resp: 2314163

Ion Ratio Lower Upper

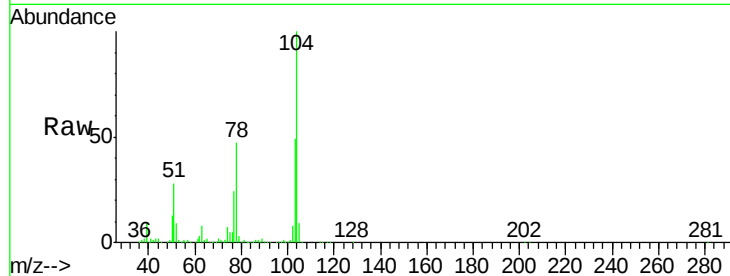
104 100

78 46.5 39.8 59.6

103 47.7 38.2 57.4

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 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

1200000

1000000

800000

600000

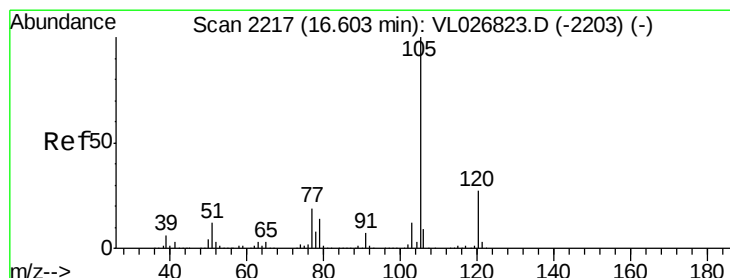
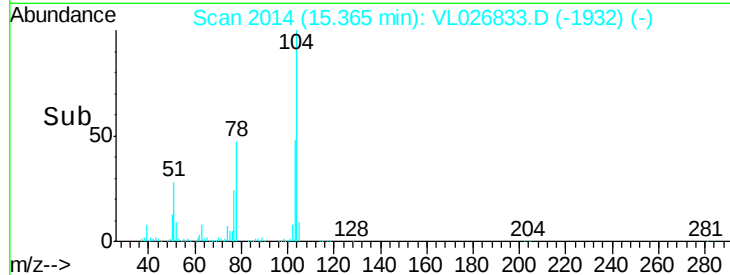
400000

200000

0

15.20 15.30 15.40 15.50

Time-->



#62

Isopropylbenzene

Concen: 11.15 ppbv

RT: 16.60 min Scan# 2216

Delta R.T. -0.01 min

Lab File: VL026833.D

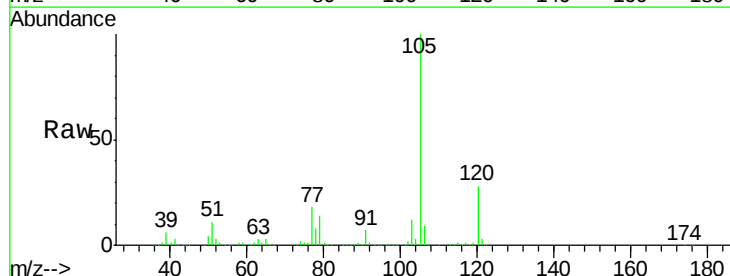
Acq: 10 Feb 2016 00:06

Tgt Ion:105 Resp: 7178210

Ion Ratio Lower Upper

105 100

120 27.0 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

3000000

2500000

2000000

1500000

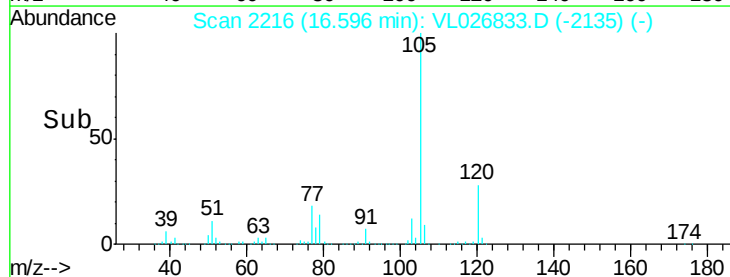
1000000

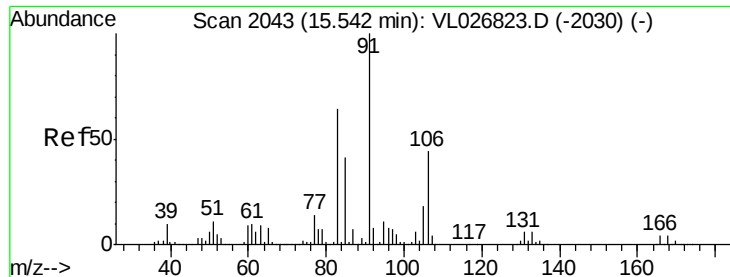
500000

0

16.50 16.60 16.70

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 10.59 ppbv

RT: 15.54 min Scan# 2043

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 83 Resp: 3878056

Ion Ratio Lower Upper

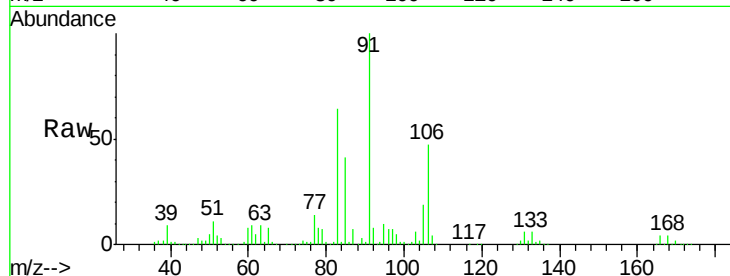
83 100

131 9.4 4.7 14.1

85 64.7 32.3 96.9

Manual Integrations
APPROVED

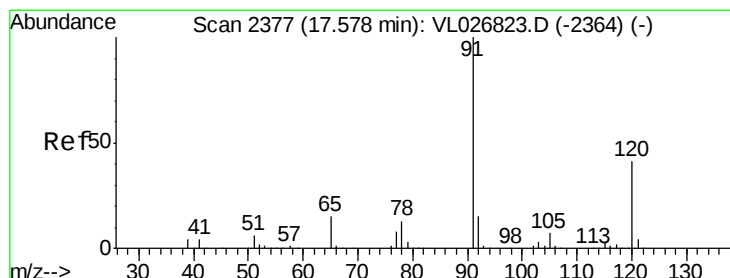
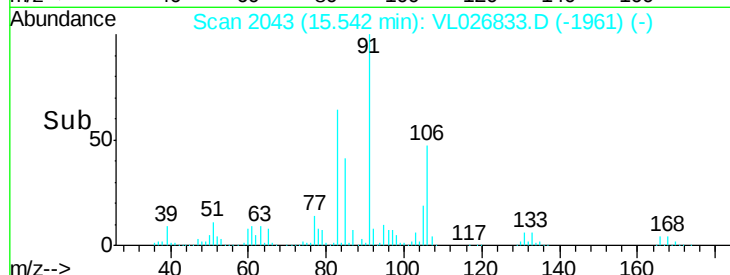
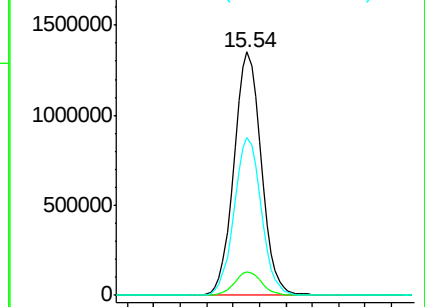
MMDadoda
2/11/2016 1:23:34 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 11.48 ppbv

RT: 17.57 min Scan# 2376

Delta R.T. -0.01 min

Lab File: VL026833.D

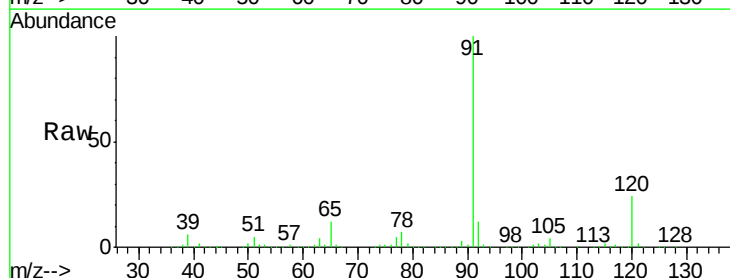
Acq: 10 Feb 2016 00:06

Tgt Ion:120 Resp: 1901310

Ion Ratio Lower Upper

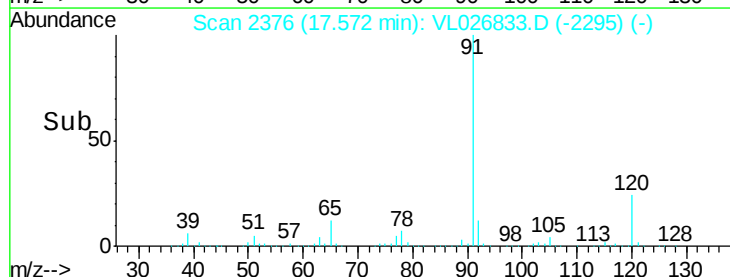
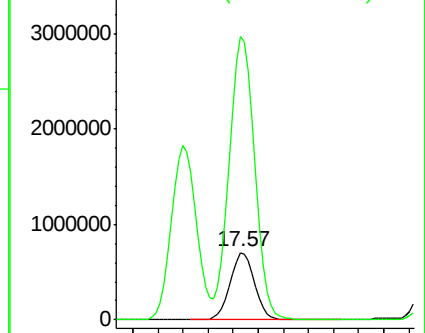
120 100

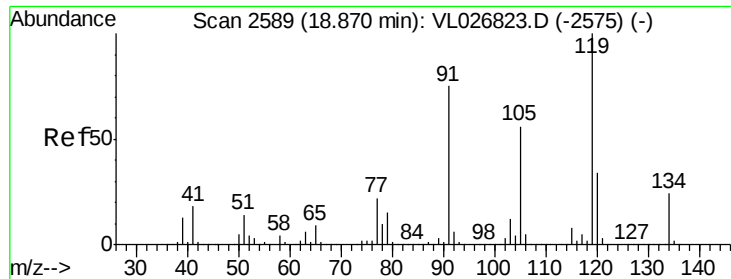
91 447.6 363.0 544.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





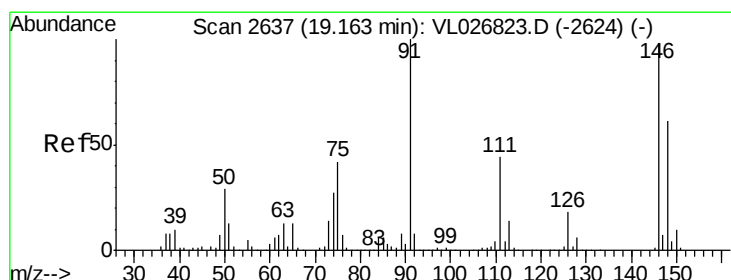
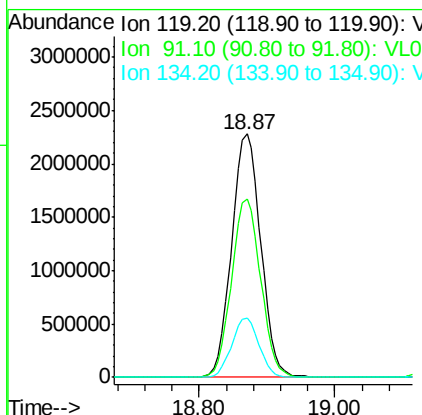
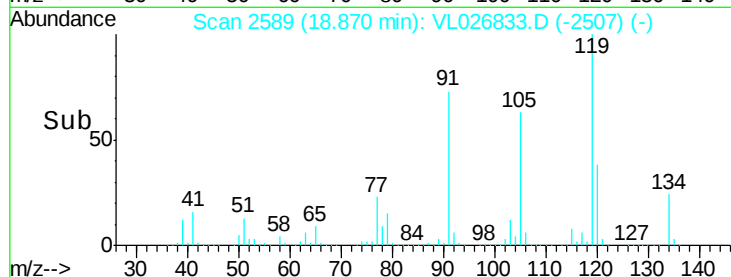
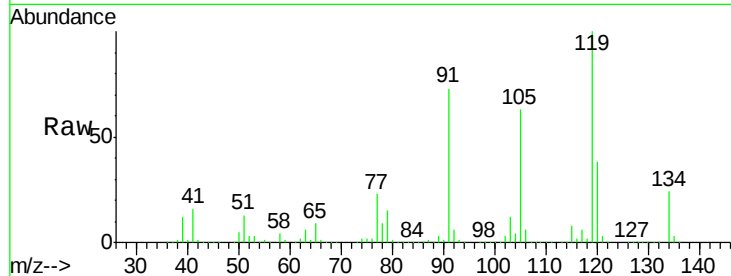
#65
tert-Butylbenzene
Concen: 11.41 ppbv
RT: 18.87 min Scan# 2589
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Instrument :
MSVOA_L
ClientSampleId :
VL0209ABS01

Tot Ion:119 Resp: 6766932
Ion Ratio Lower Upper
119 100
91 73.7 61.5 92.3
134 23.0 17.9 26.9

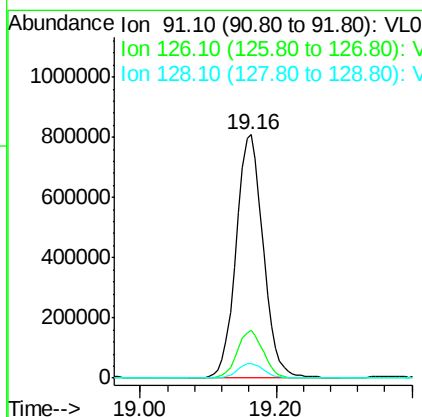
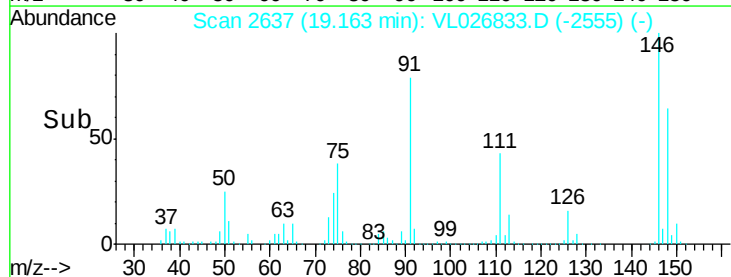
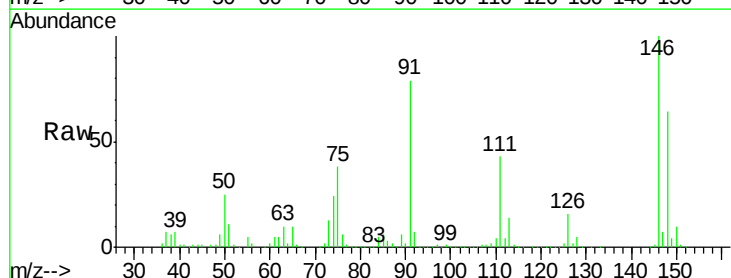
Manual Integrations
APPROVED

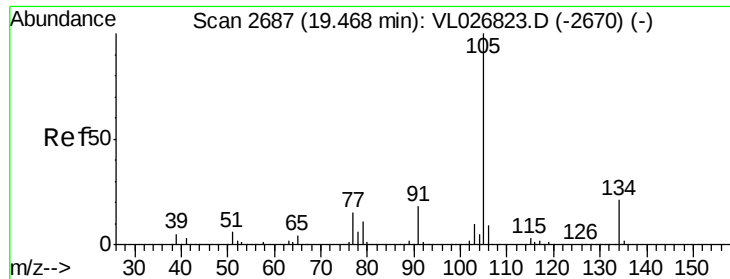
MMDadoda
2/11/2016 1:23:34 PM



#66
Benzyl Chloride
Concen: 11.61 ppbv
RT: 19.16 min Scan# 2637
Delta R.T. -0.00 min
Lab File: VL026833.D
Acq: 10 Feb 2016 00:06

Tgt Ion: 91 Resp: 2234696
Ion Ratio Lower Upper
91 100
126 19.0 14.6 21.8
128 6.1 4.6 6.8





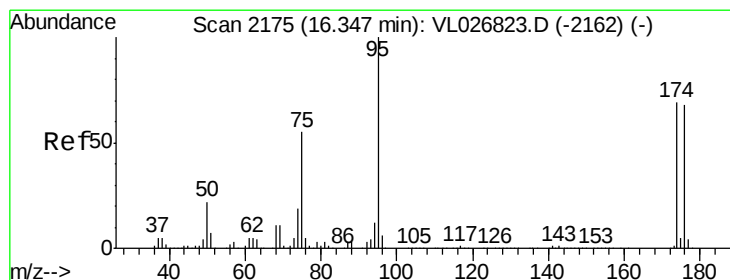
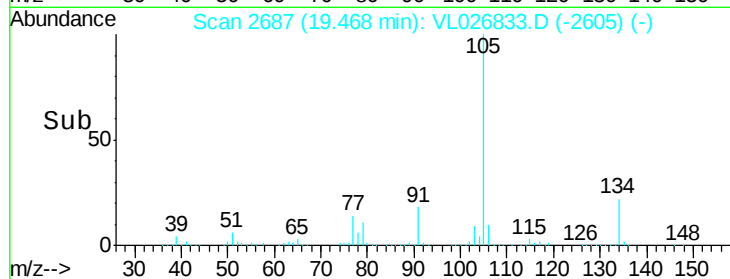
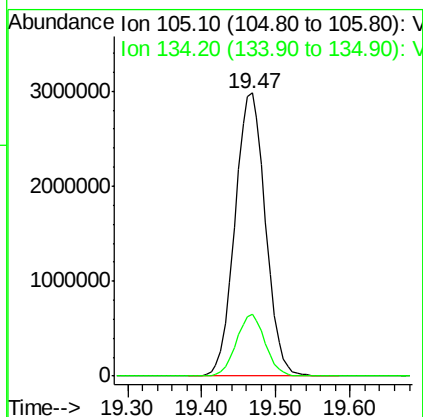
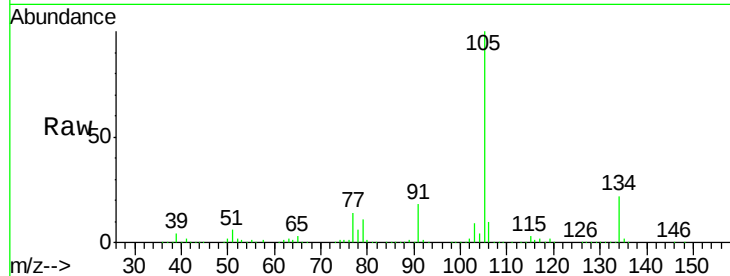
#67
 sec-Butylbenzene
 Concen: 11.07 ppbv
 RT: 19.47 min Scan# 2687
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Tot Ion:105 Resp: 8550897
 Ion Ratio Lower Upper
 105 100
 134 20.7 16.1 24.1

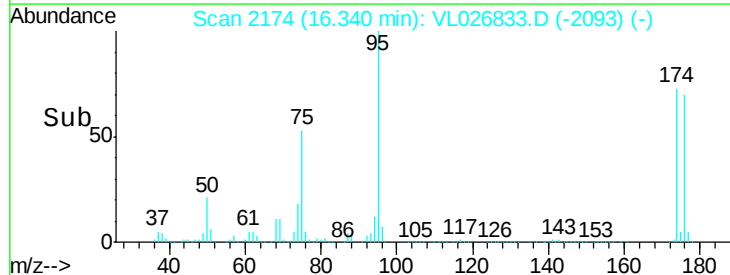
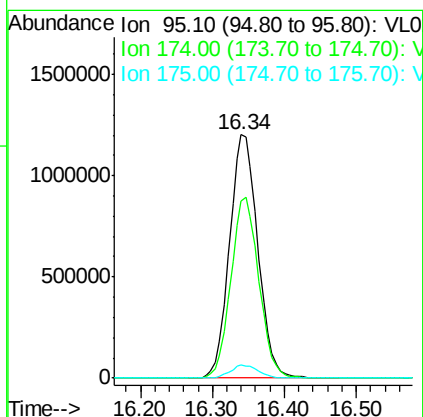
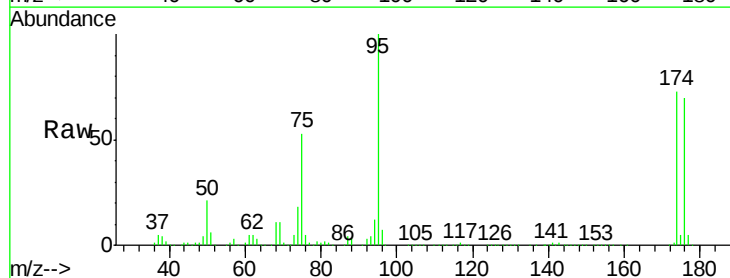
Manual Integrations
 APPROVED

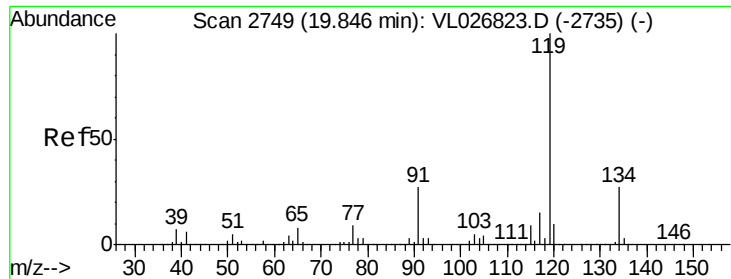
MMDadoda
 2/11/2016 1:23:34 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.58 ppbv
 RT: 16.34 min Scan# 2174
 Delta R.T. -0.01 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Tgt Ion: 95 Resp: 3278761
 Ion Ratio Lower Upper
 95 100
 174 0.0 55.6 83.4#
 175 5.2 3.9 5.9





#69

p-Isopropyltoluene

Concen: 11.52 ppbv

RT: 19.85 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

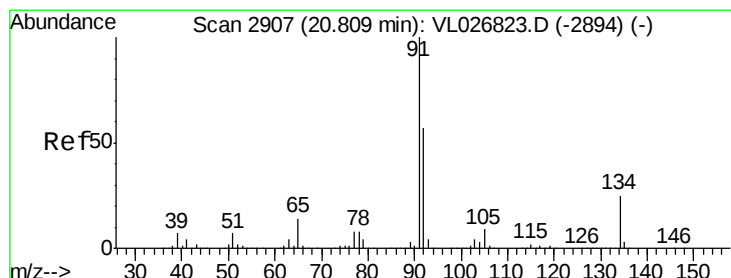
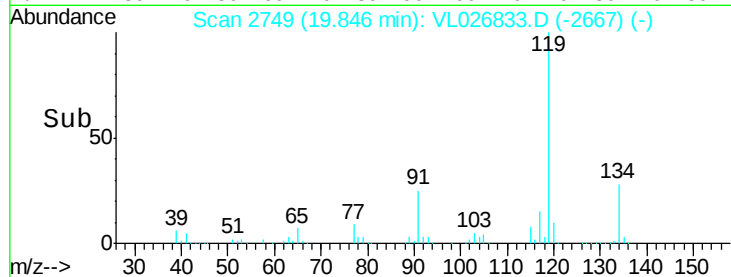
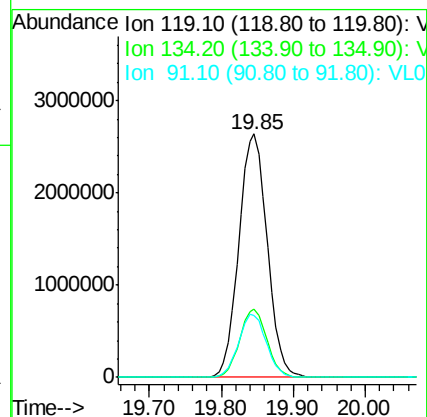
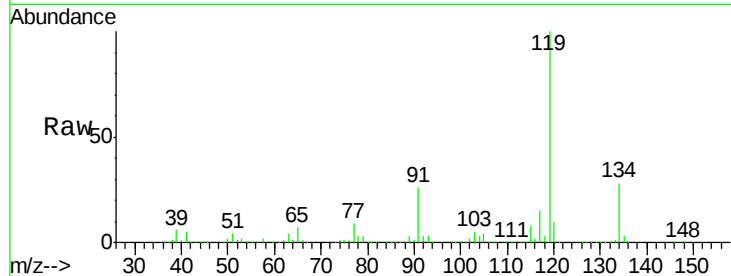
ClientSampleId :

VL0209ABS01

Tot Ion:	119	Resp:	7207227
Ion	Ratio	Lower	Upper
119	100		
134	27.1	21.3	31.9
91	25.5	21.5	32.3

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#70

n-Butylbenzene

Concen: 11.13 ppbv

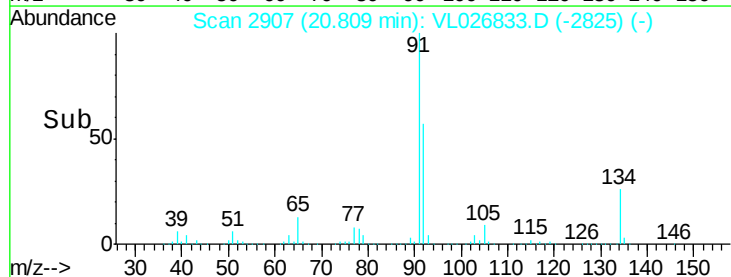
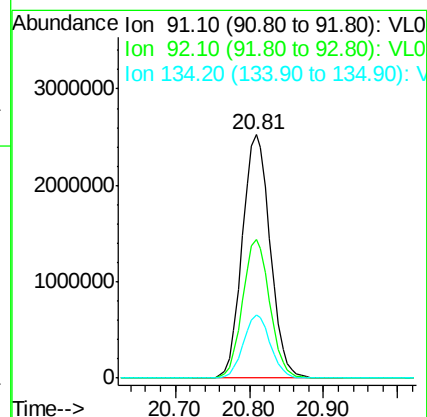
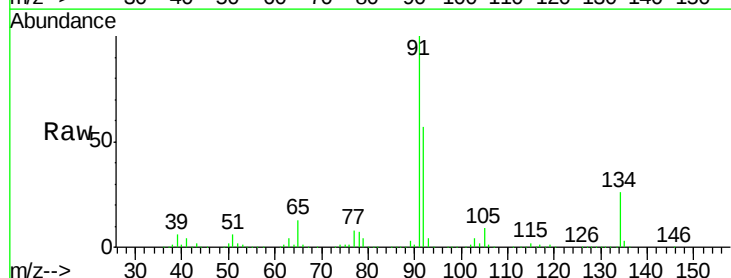
RT: 20.81 min Scan# 2907

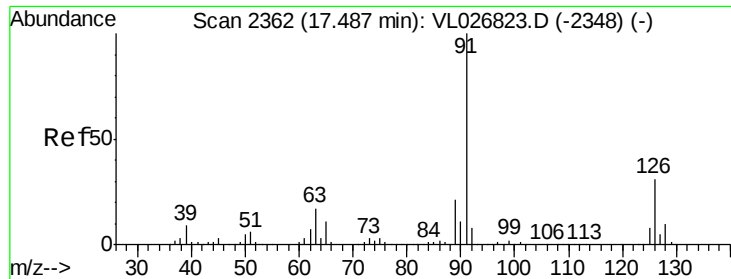
Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Tgt Ion:	91	Resp:	6642027
Ion	Ratio	Lower	Upper
91	100		
92	55.5	44.2	66.4
134	25.1	19.3	28.9





#71

2-Chlorotoluene

Concen: 11.66 ppbv

RT: 17.48 min Scan# 2361

Delta R.T. -0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion: 91 Resp: 5124283

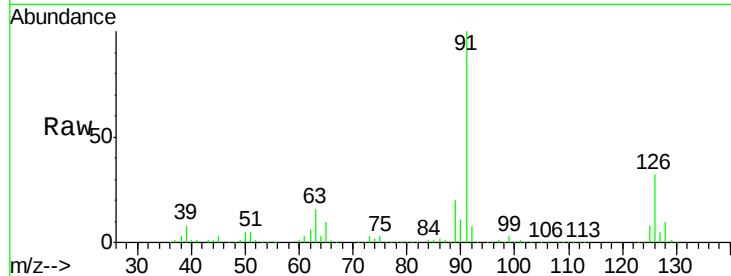
Ion Ratio Lower Upper

91 100

126 31.6 12.2 48.8

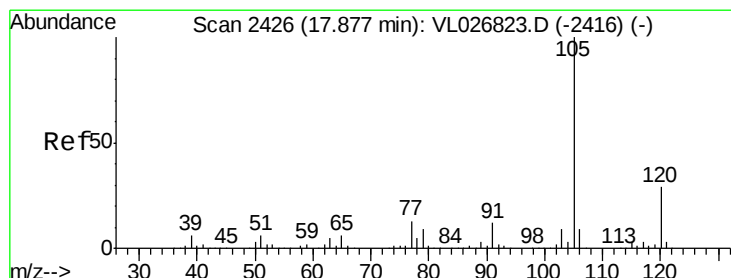
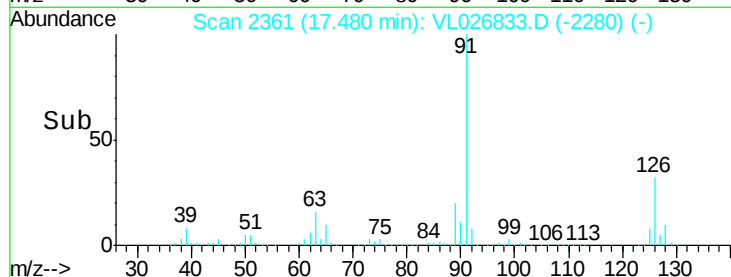
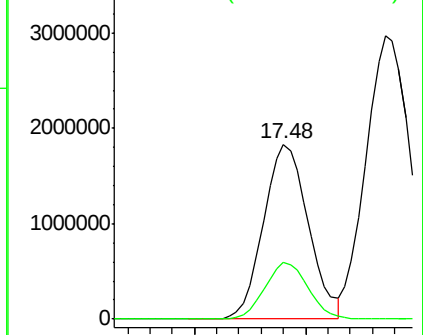
Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.74 ppbv

RT: 17.88 min Scan# 2426

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Tgt Ion:105 Resp: 5800596

Ion Ratio Lower Upper

105 100

120 30.3 23.8 35.6

91 12.2 10.2 15.4

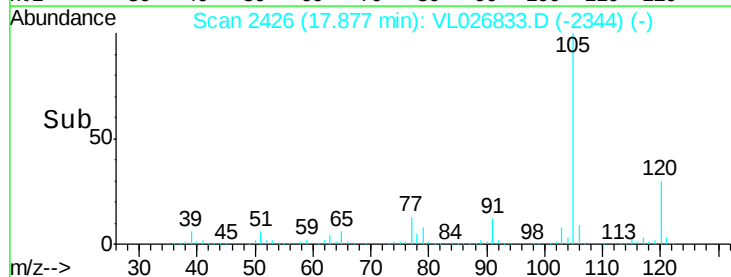
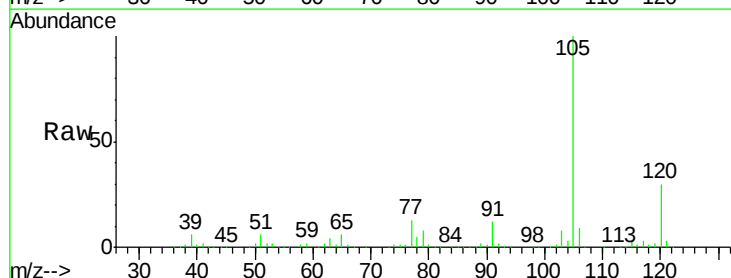
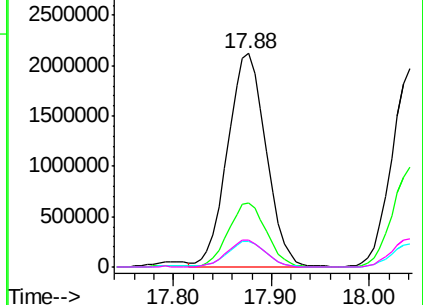
77 12.9 10.8 16.2

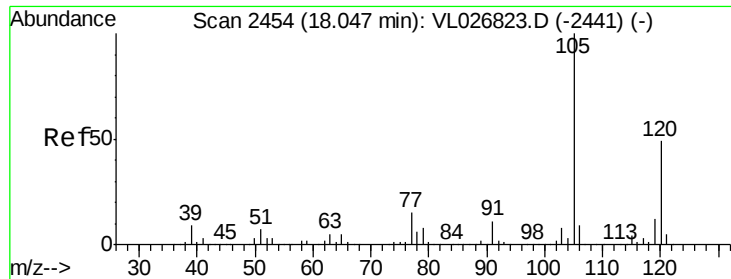
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





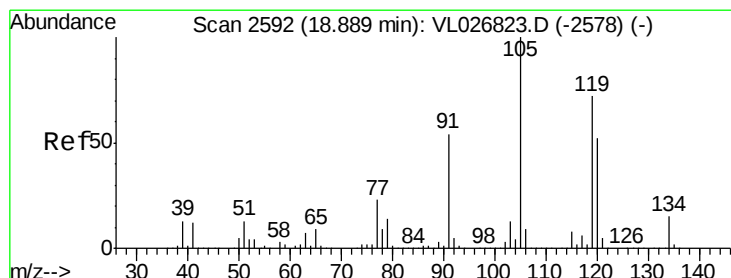
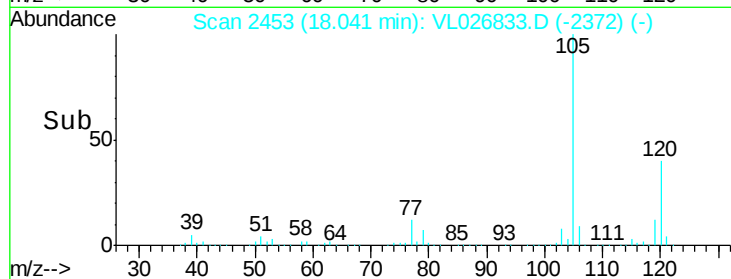
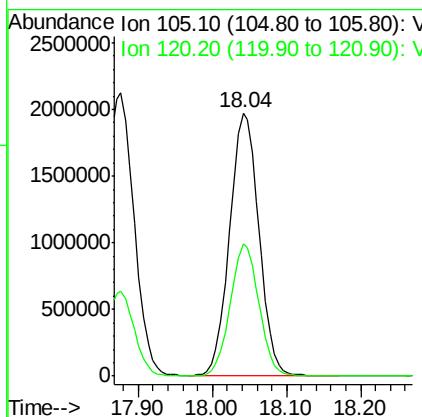
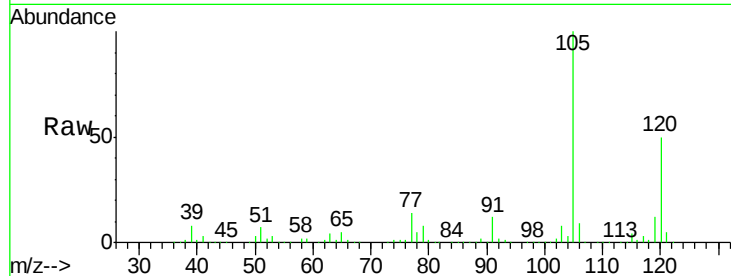
#73
 1,3,5-Trimethylbenzene
 Concen: 11.31 ppbv
 RT: 18.04 min Scan# 2453
 Delta R.T. -0.01 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Tot Ion:105 Resp: 5441402
 Ion Ratio Lower Upper
 105 100
 120 50.4 39.4 59.0

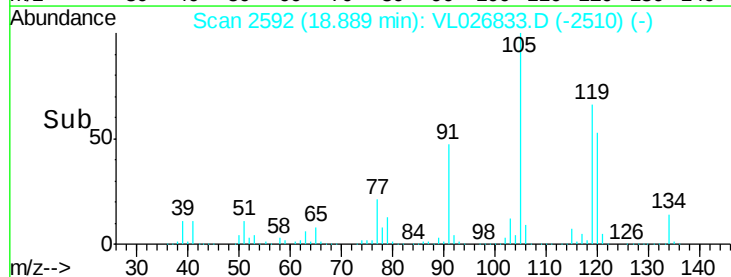
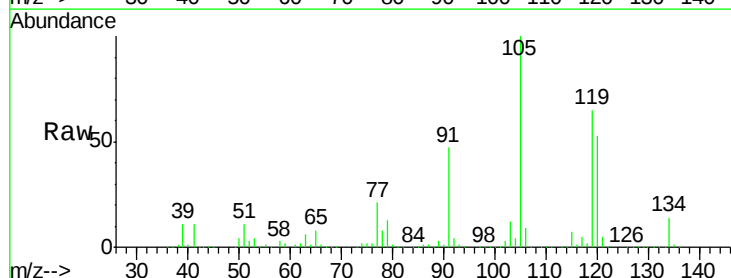
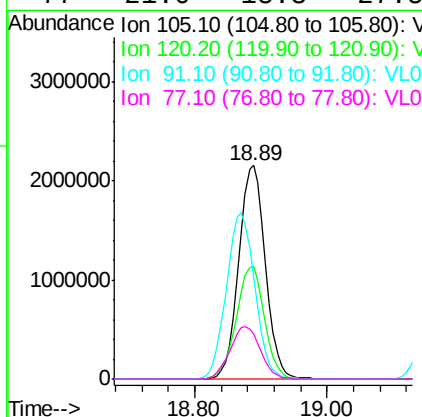
Manual Integrations
 APPROVED

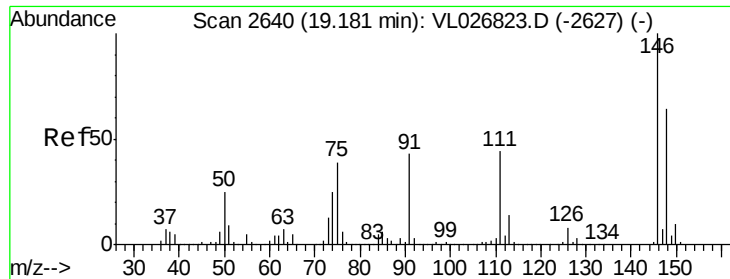
MMDadoda
 2/11/2016 1:23:34 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 10.98 ppbv
 RT: 18.89 min Scan# 2592
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Tgt Ion:105 Resp: 6007251
 Ion Ratio Lower Upper
 105 100
 120 52.7 41.3 61.9
 91 47.4 43.3 64.9
 77 21.0 18.3 27.5





#75

1,3-Dichlorobenzene

Concen: 10.94 ppbv

RT: 19.18 min Scan# 2639

Delta R.T. -0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion:146 Resp: 3627979

Ion Ratio Lower Upper

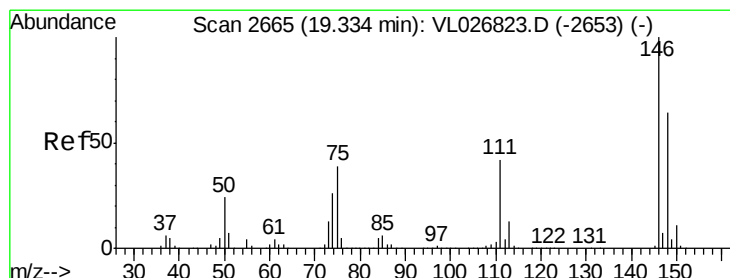
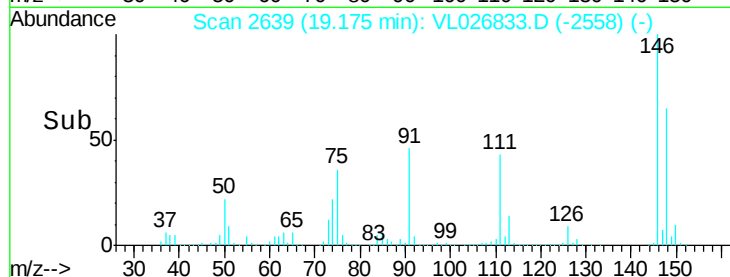
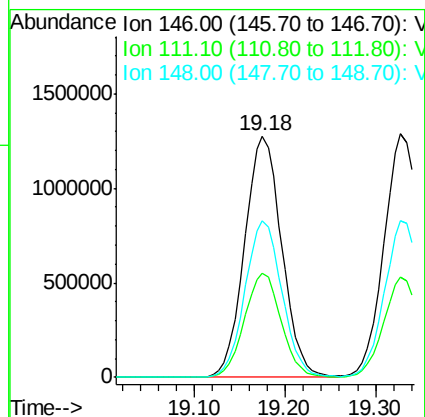
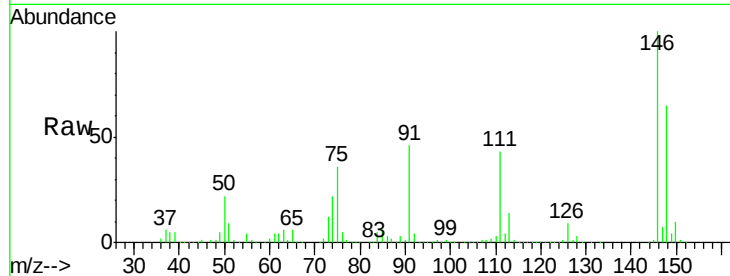
146 100

111 42.5 22.1 66.3

148 64.6 32.2 96.6

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#76

1,4-Dichlorobenzene

Concen: 11.16 ppbv

RT: 19.33 min Scan# 2664

Delta R.T. -0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

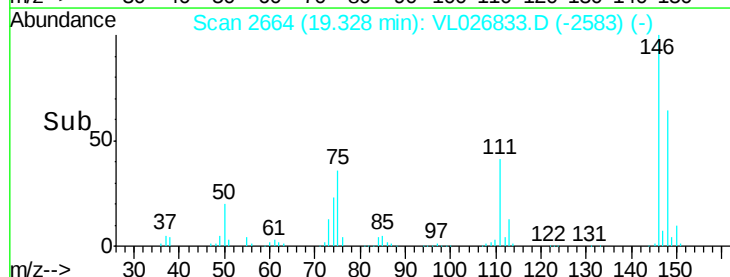
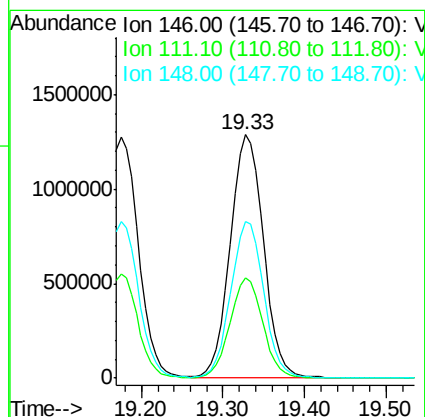
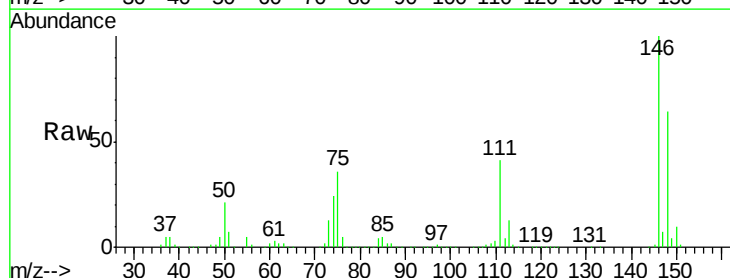
Tgt Ion:146 Resp: 3620097

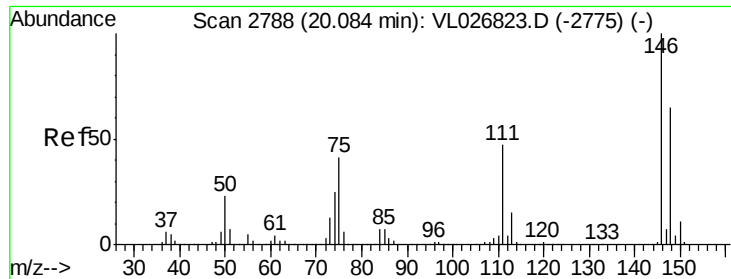
Ion Ratio Lower Upper

146 100

111 41.0 21.6 64.8

148 64.6 32.2 96.6





#77

1,2-Dichlorobenzene

Concen: 10.84 ppbv

RT: 20.08 min Scan# 2788

Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

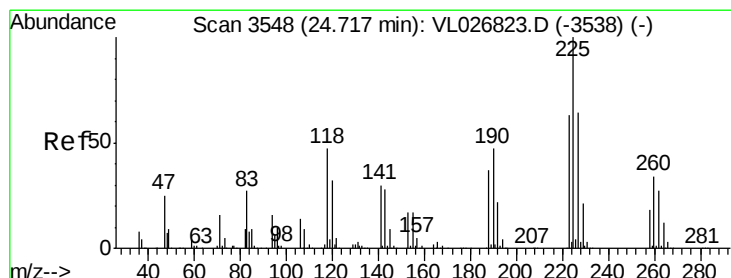
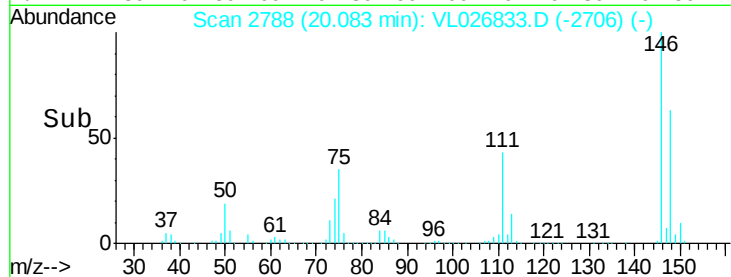
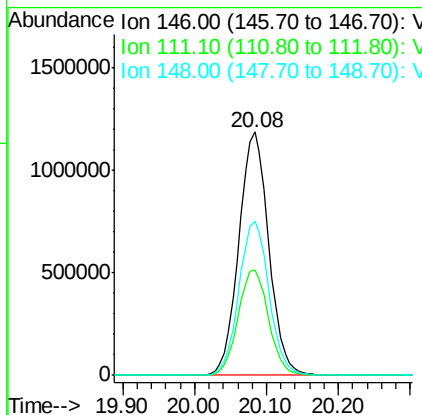
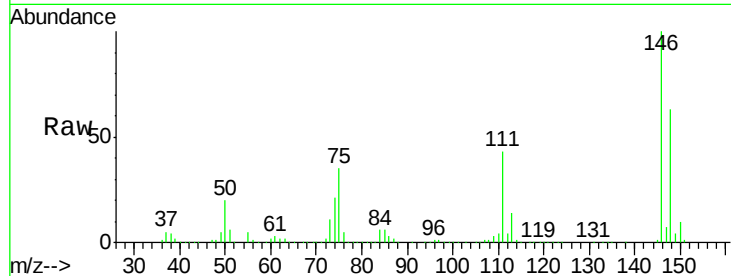
ClientSampleId :

VL0209ABS01

Tot Ion:	146	Resp:	3416153
Ion	Ratio	Lower	Upper
146	100		
111	44.2	23.1	69.3
148	64.0	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 PM



#78

Hexachloro-1,3-Butadiene

Concen: 9.91 ppbv

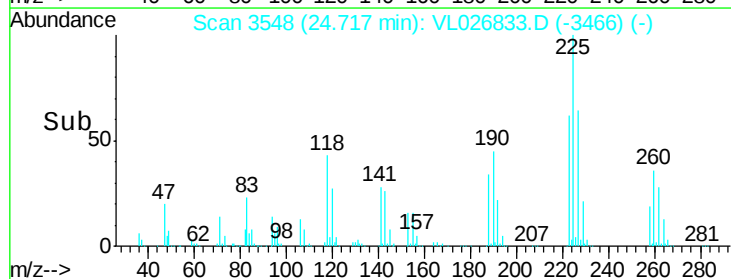
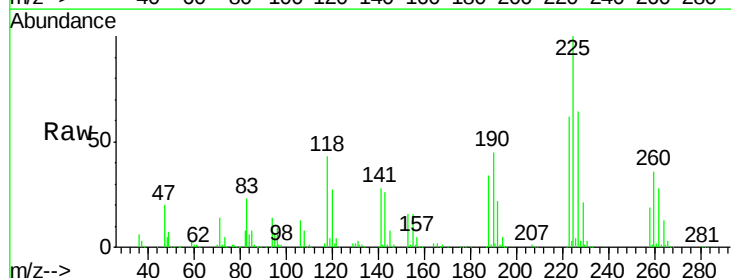
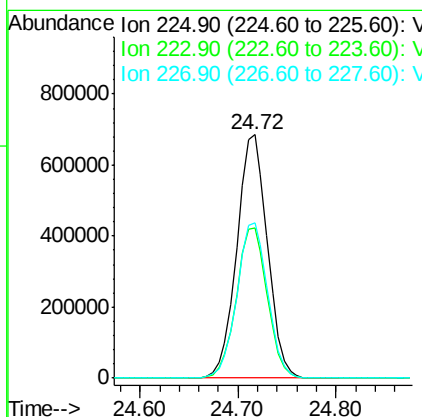
RT: 24.72 min Scan# 3548

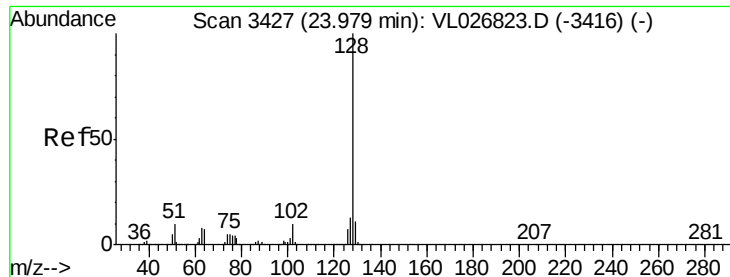
Delta R.T. -0.00 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Tgt Ion:	225	Resp:	1483504
Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.2	75.2
227	64.3	52.1	78.1





#79

Naphthalene

Concen: 10.54 ppbv

RT: 23.97 min Scan# 3426

Delta R.T. -0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

Instrument :

MSVOA_L

ClientSampleId :

VL0209ABS01

Tot Ion:128 Resp: 2771578

Ion Ratio Lower Upper

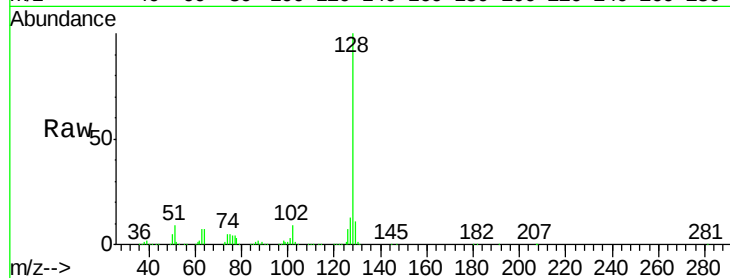
128 100

127 13.1 10.0 15.0

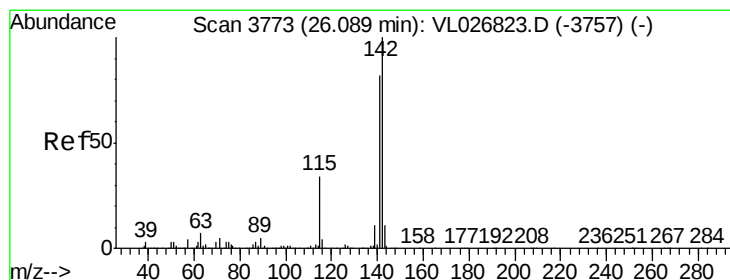
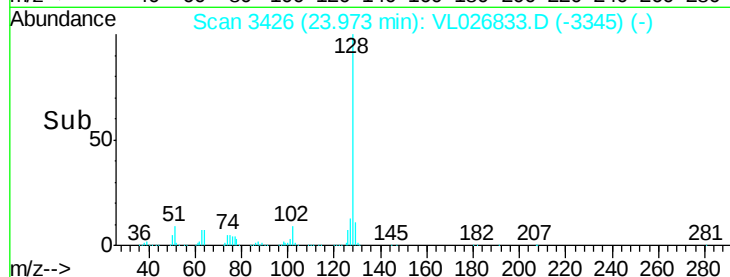
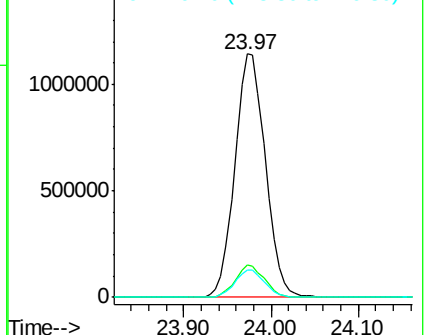
129 11.2 8.7 13.1

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:34 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: 8.90 ppbv

RT: 26.09 min Scan# 3774

Delta R.T. 0.01 min

Lab File: VL026833.D

Acq: 10 Feb 2016 00:06

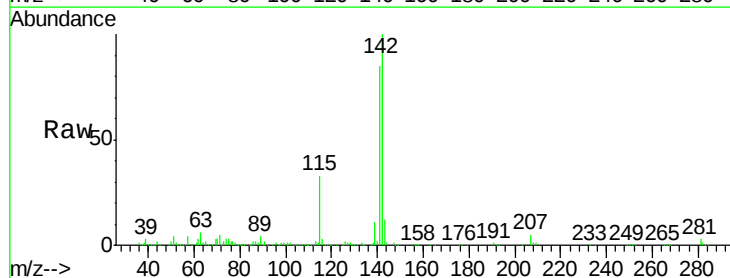
Tgt Ion:142 Resp: 950554

Ion Ratio Lower Upper

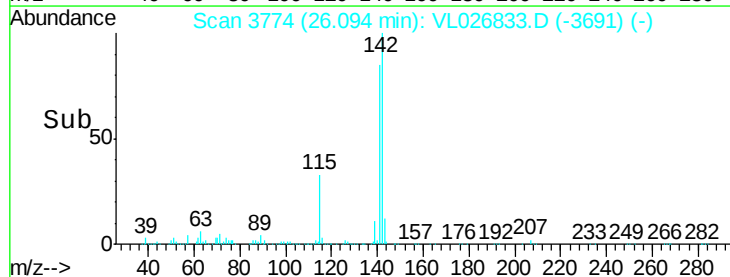
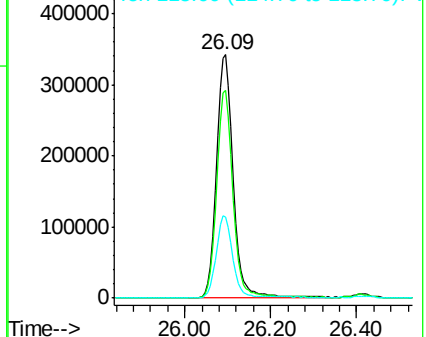
142 100

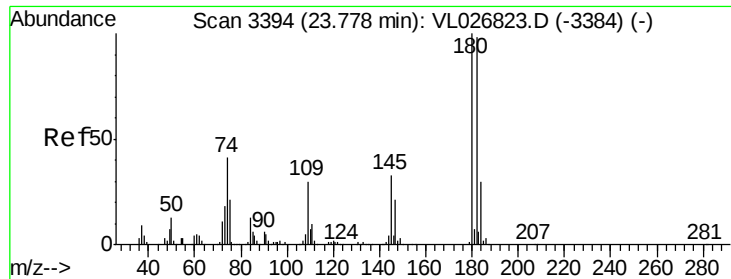
141 84.1 67.2 100.8

115 33.9 27.5 41.3



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





#81
 1,2,4-Trichlorobenzene
 Concen: 10.41 ppbv
 RT: 23.78 min Scan# 3394
 Delta R.T. -0.00 min
 Lab File: VL026833.D
 Acq: 10 Feb 2016 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0209ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.3	115.9
184	30.3	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 2/11/2016 1:23:34 PM

