

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110718\
 Data File : VL032714.D
 Acq On : 7 Nov 2018 12:58
 Operator : SY/AP
 Sample : VL1107ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:30:01 PM

Quant Time: Nov 07 13:51:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1519813	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3847275	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3969230	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2859677	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1832502	11.834	ppbv	99
3) Chlorodifluoromethane	3.02	51	1159770	9.758	ppbv	99
4) Chloromethane	3.18	50	648148	9.758	ppbv	99
5) Vinyl Chloride	3.30	62	683417	9.499	ppbv	99
6) Bromomethane	3.53	94	443399	9.885	ppbv	92
7) Chloroethane	3.61	64	258019	9.739	ppbv	92
8) Dichlorotetrafluoroethane	3.23	85	1607753	9.851	ppbv	93
9) Propene	3.05	41	508159	10.389	ppbv	99
10) Heptane	8.26	43	2030900	10.774	ppbv	100
11) Trichlorofluoromethane	4.02	101	1796397	8.881	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1587239	9.436	ppbv	93
13) Ethanol	3.66	45	129604	9.271	ppbv	99
14) Bromoethene	3.80	108	563302	9.909	ppbv	99
15) Acetone	3.91	43	1193304	8.503	ppbv	99
16) 1,3-Butadiene	3.37	39	555895	10.767	ppbv	84
17) tert-Butyl alcohol	4.37	59	507831	12.303	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	832951	11.272	ppbv	97
19) Isopropyl Alcohol	4.04	45	862274	8.627	ppbv #	97
20) Methylene Chloride	4.42	84	718517	10.086	ppbv	97
21) Allyl Chloride	4.49	41	1347937	11.698	ppbv	98
22) trans-1,2-Dichloroethene	4.98	96	792701	10.459	ppbv	85
23) Vinyl Acetate	5.17	43	2708770	10.892	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1959074	10.035	ppbv	100
25) Ethyl Acetate	5.78	43	3247416	10.053	ppbv	99
26) Hexane	5.79	57	1526756	9.989	ppbv	99
27) Carbon Disulfide	4.63	76	2082228	11.230	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	2479576	11.288	ppbv	100
29) Chloroform	5.87	83	2578756	10.562	ppbv	99
30) Cyclohexane	7.26	84	1377521	11.386	ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	1534069	10.824	ppbv	97
32) 1,1,1-Trichloroethane	6.63	97	2604983	10.499	ppbv	98
34) 2-Butanone	5.35	43	2097819	10.172	ppbv	100
35) Carbon Tetrachloride	7.15	117	2792240	10.226	ppbv	97
36) Benzene	7.02	78	3275220	10.483	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1989605	10.383	ppbv	98
38) Trichloroethene	7.98	130	1285378	11.114	ppbv	96
39) 1,2-Dichloropropane	7.75	63	1238155	10.263	ppbv	96
40) 1,4-Dioxane	7.97	88	433822	10.529	ppbv #	100
41) Tetrahydrofuran	6.16	42	1310235	11.401	ppbv	100
42) Bromodichloromethane	7.93	83	2807661	10.458	ppbv	99
43) Methyl Methacrylate	8.15	69	1299805	11.352	ppbv	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110718\
 Data File : VL032714.D
 Acq On : 7 Nov 2018 12:58
 Operator : SY/AP
 Sample : VL1107ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

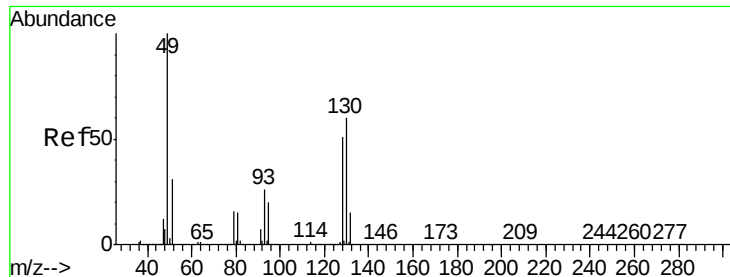
Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:30:01 PM

Quant Time: Nov 07 13:51:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 2
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5518161	10.347	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1821628	11.886	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	2205305	12.594	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	1440970	10.108	ppbv	97
48) Dibromochloromethane	10.47	129	2382846	10.028	ppbv	100
49) Bromoform	13.22	173	2054685	11.004	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3496756	11.444	ppbv	98
51) 2-Hexanone	10.29	43	2441793	10.751	ppbv #	98
52) Tetrachloroethene	11.39	164	1119081	10.274	ppbv	96
53) Toluene	9.96	91	3791810	10.588	ppbv	99
54) 1,2-Dibromoethane	10.78	107	2050185	10.582	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.30	131	1691419	9.745	ppbv	98
57) Chlorobenzene	12.32	112	2822541	9.669	ppbv	95
58) Ethyl Benzene	12.88	91	5093638	11.046	ppbv	99
59) m/p-Xylene	13.16	91	8446216m	20.569	ppbv	
60) o-Xylene	13.87	91	4093269	10.334	ppbv	99
61) Styrene	13.70	104	3097826	11.664	ppbv	98
62) Isopropylbenzene	14.84	105	5807337	10.359	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2856694	9.205	ppbv	99
64) n-propylbenzene	15.74	120	1472267	10.567	ppbv	96
65) tert-Butylbenzene	16.92	119	5343738	11.193	ppbv	97
66) Benzyl Chloride	17.17	91	3241967	13.152	ppbv	100
67) sec-Butylbenzene	17.48	105	7304805	10.758	ppbv	99
69) p-Isopropyltoluene	17.83	119	5752648	10.691	ppbv	99
70) n-Butylbenzene	18.73	91	6347528	11.459	ppbv	99
71) 2-Chlorotoluene	15.63	91	4293633	10.777	ppbv	98
72) 4-Ethyltoluene	16.02	105	4685300	11.106	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4441375	10.809	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4813025	10.968	ppbv #	92
75) 1,3-Dichlorobenzene	17.18	146	2696117	10.685	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2655187	11.402	ppbv	98
77) 1,2-Dichlorobenzene	18.00	146	2416666	10.109	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	1280887	11.340	ppbv	100
79) Naphthalene	22.43	128	3452760	12.659	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	1244380	18.762	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1698391	12.023	ppbv	100

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



#1

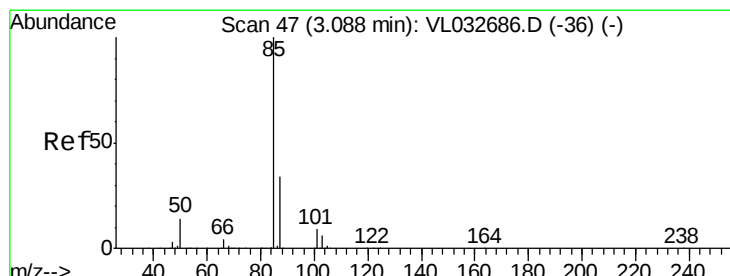
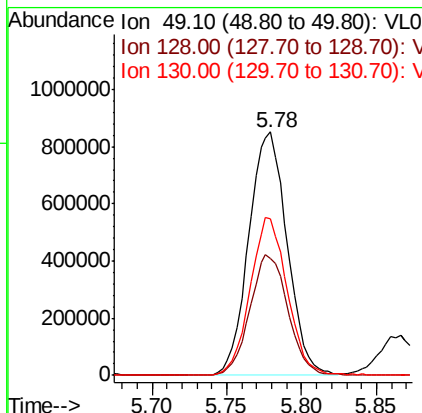
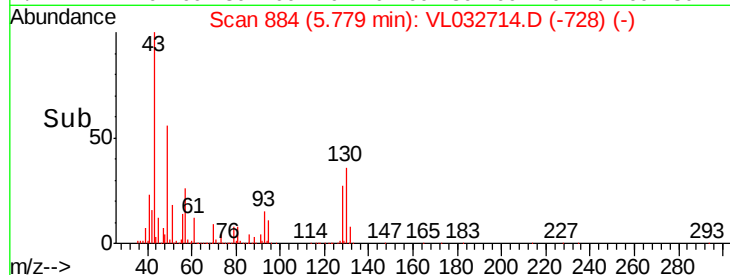
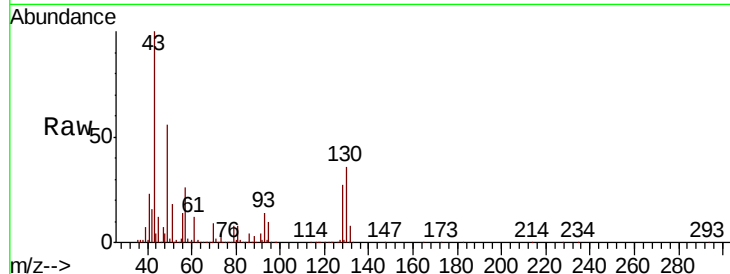
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion	Ratio	Lower	Upper
49	100		
128	49.3	22.3	66.8
130	63.0	28.4	85.3

Manual Integrations
APPROVED

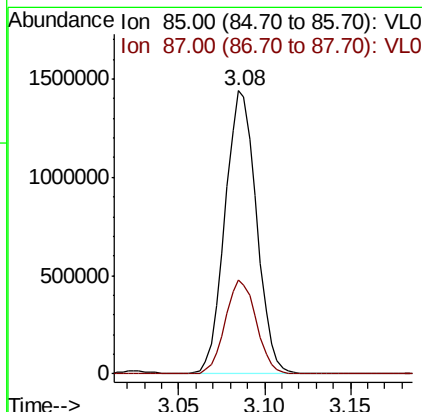
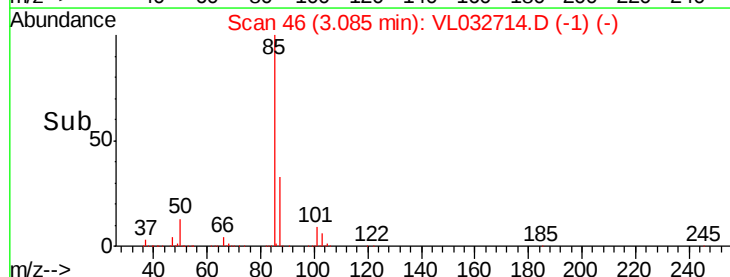
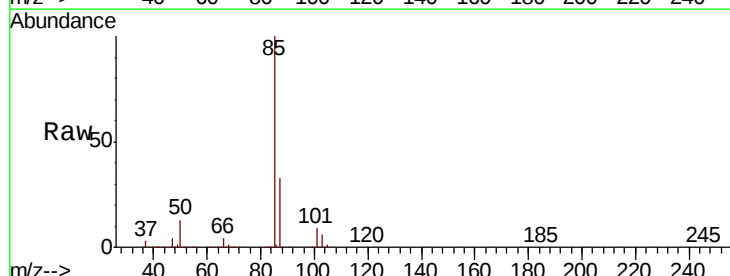
MMDadoda
11/12/2018 12:30:01 PM

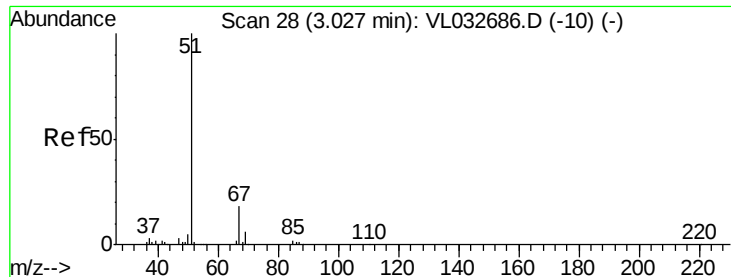


#2

Dichlorodifluoromethane
Concen: 11.834 ppbv
RT: 3.08 min Scan# 46
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.2	39.2





#3

Chlorodifluoromethane

Concen: 9.758 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 51 Resp: 1159770

Ion Ratio Lower Upper

51 100

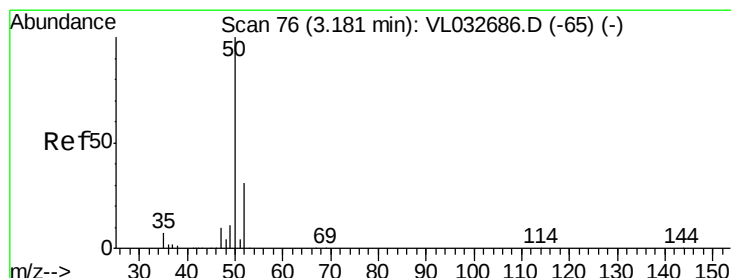
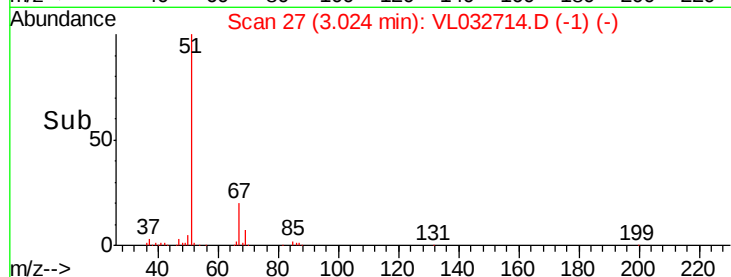
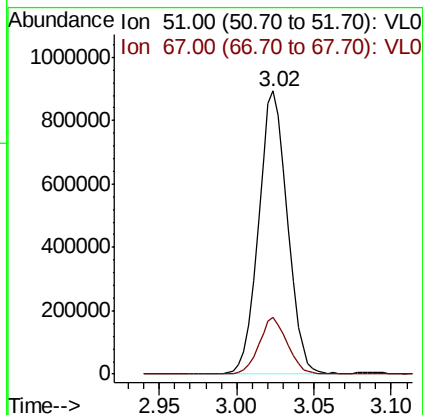
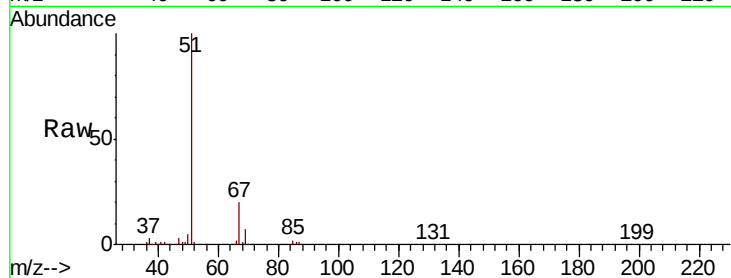
67 19.5 15.2 22.8

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:30:01 PM



#4

Chloromethane

Concen: 9.758 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032714.D

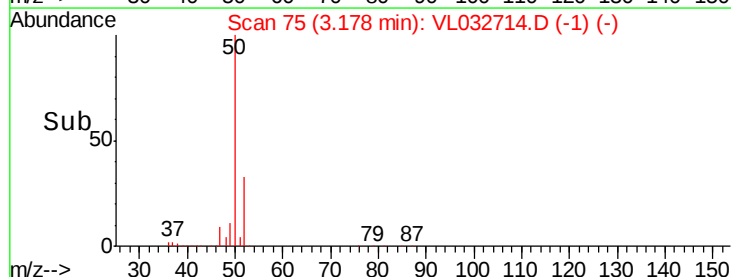
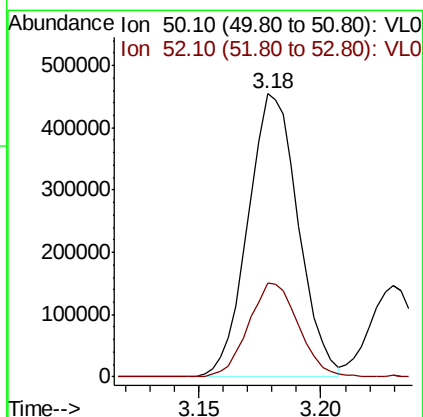
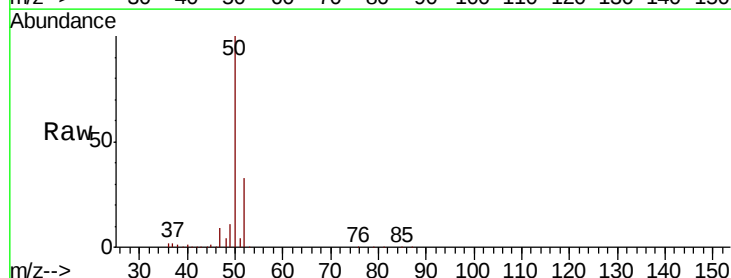
Acq: 7 Nov 2018 12:58

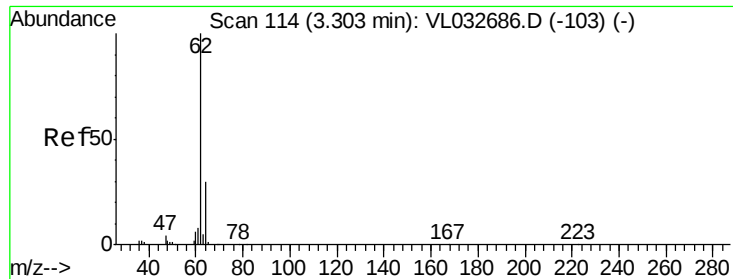
Tgt Ion: 50 Resp: 648148

Ion Ratio Lower Upper

50 100

52 33.0 25.9 38.9





#5

Vinyl Chloride

Concen: 9.499 ppbv

RT: 3.30 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 62 Resp: 683417

Ion Ratio Lower Upper

62 100

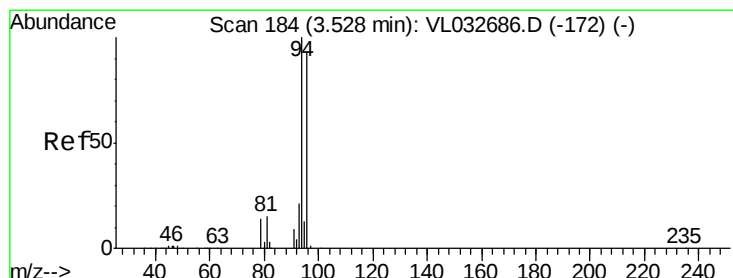
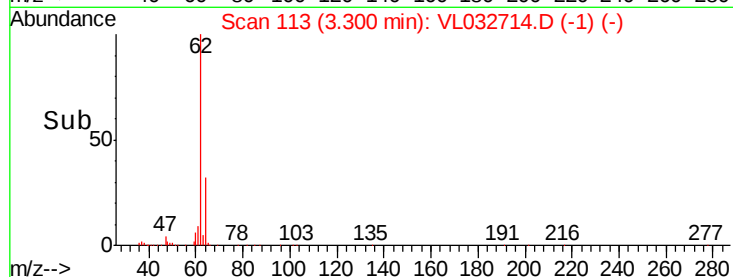
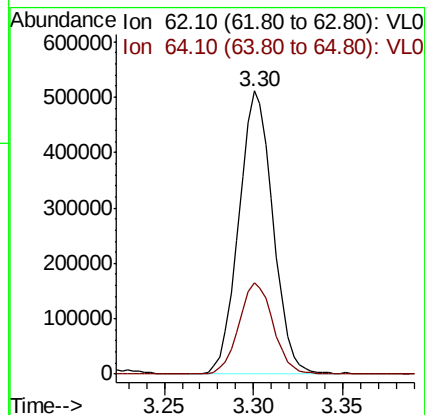
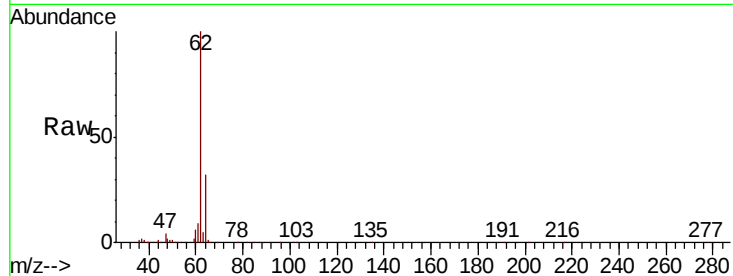
64 32.3 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:30:01 PM



#6

Bromomethane

Concen: 9.885 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.00 min

Lab File: VL032714.D

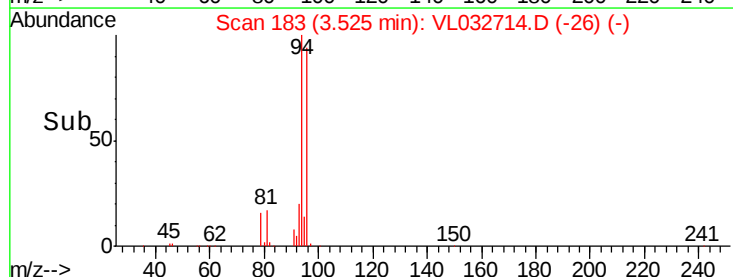
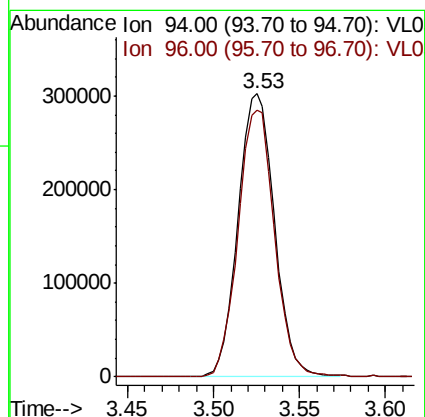
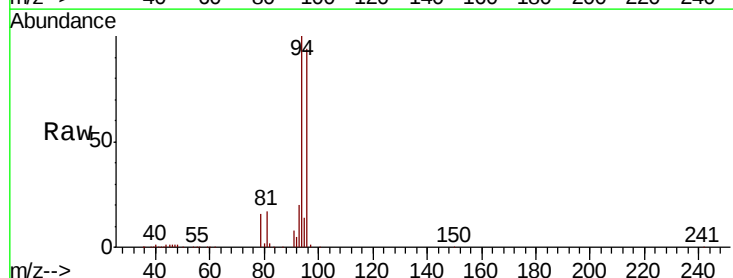
Acq: 7 Nov 2018 12:58

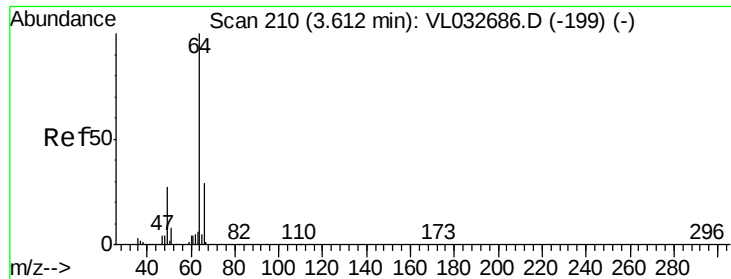
Tgt Ion: 94 Resp: 443399

Ion Ratio Lower Upper

94 100

96 94.3 69.8 104.8





#7

Chloroethane

Concen: 9.739 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 64 Resp: 258019

Ion Ratio Lower Upper

64 100

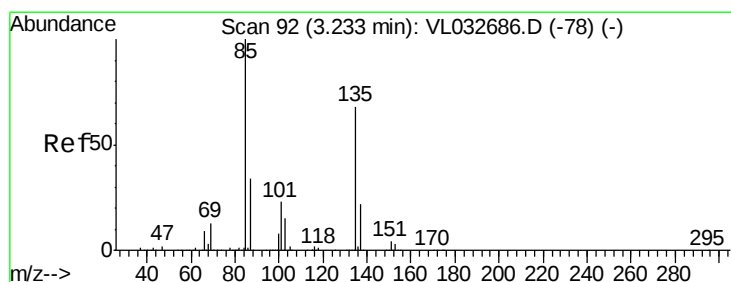
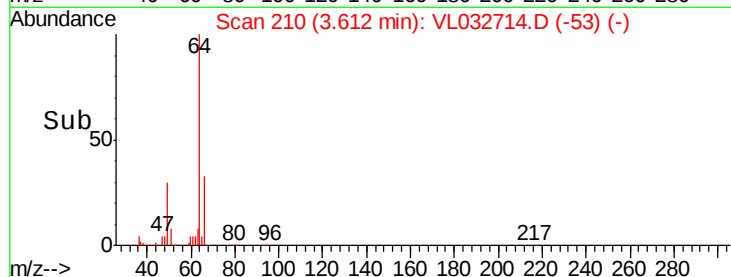
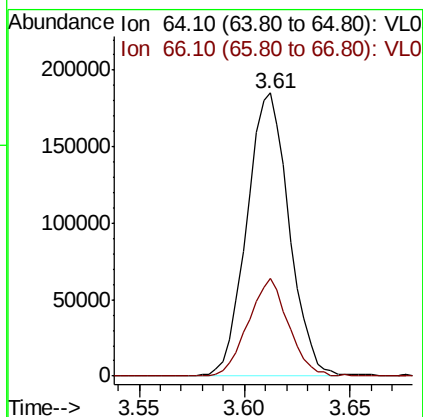
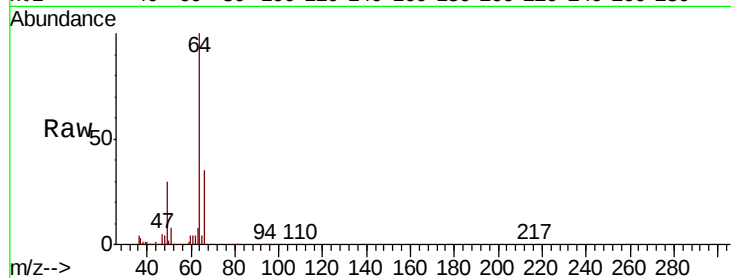
66 34.7 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:30:01 PM



#8

Dichlorotetrafluoroethane

Concen: 9.851 ppbv

RT: 3.23 min Scan# 91

Delta R.T. 0.00 min

Lab File: VL032714.D

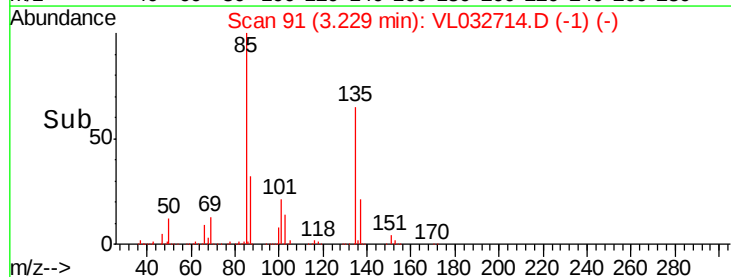
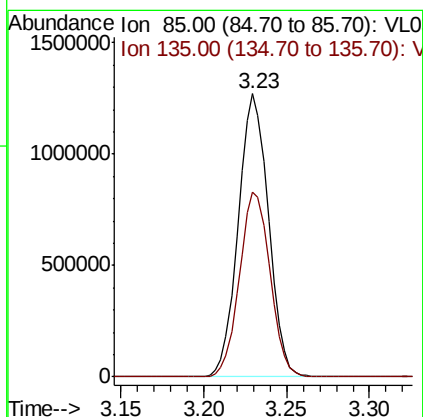
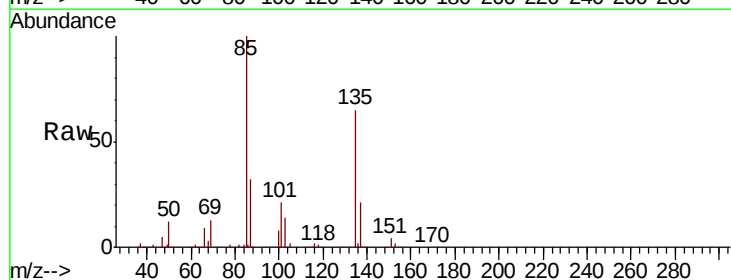
Acq: 7 Nov 2018 12:58

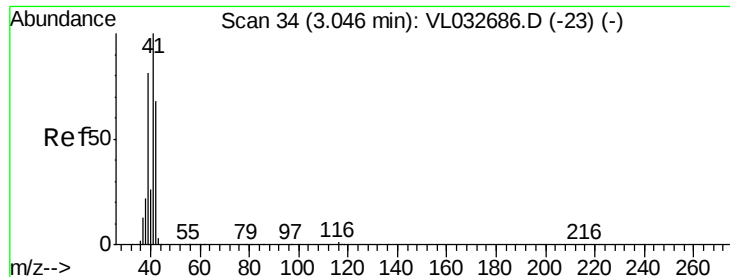
Tgt Ion: 85 Resp: 1607753

Ion Ratio Lower Upper

85 100

135 66.5 49.0 73.4





#9

Propene

Concen: 10.389 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 41 Resp: 508159

Ion Ratio Lower Upper

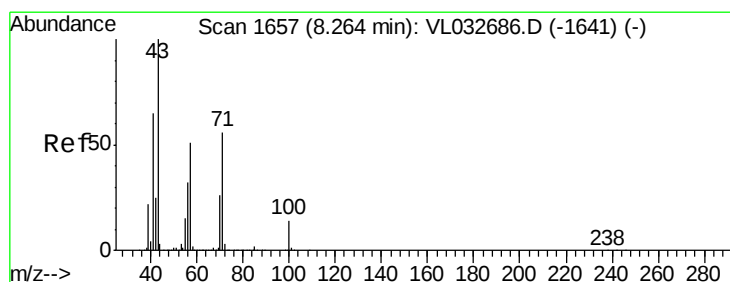
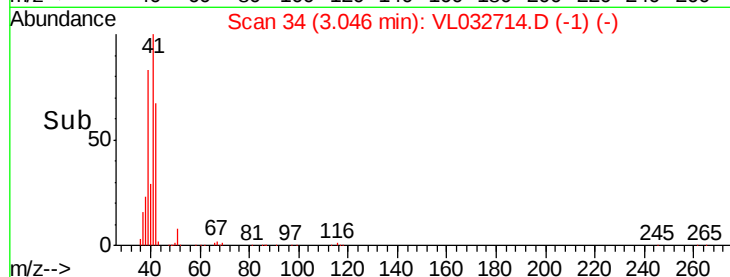
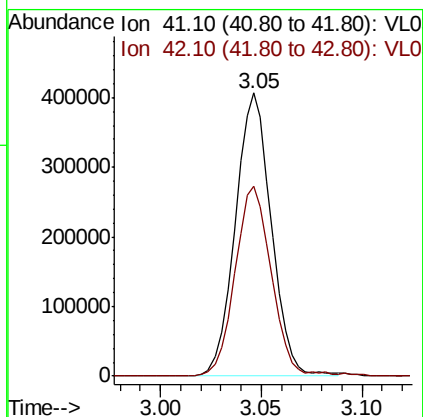
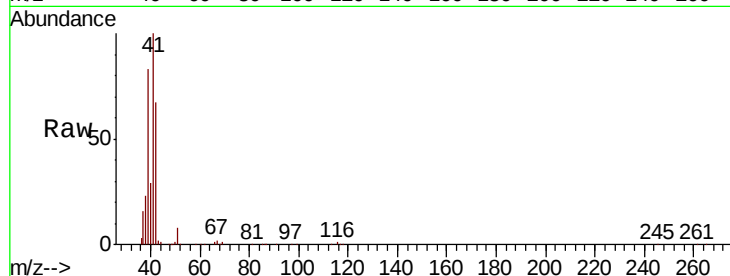
41 100

42 68.2 55.4 83.0

Manual Integrations
APPROVED

MMDadoda

11/12/2018 12:30:01 PM



#10

Heptane

Concen: 10.774 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VL032714.D

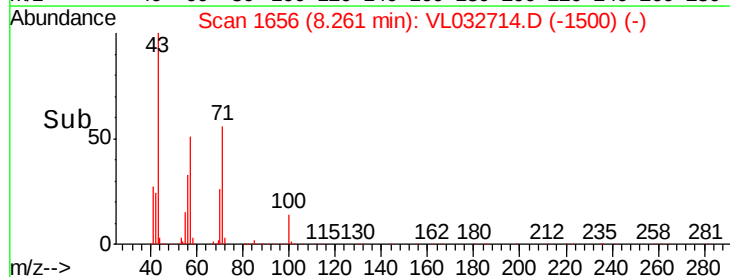
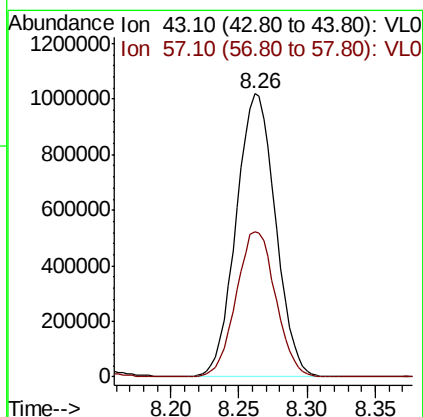
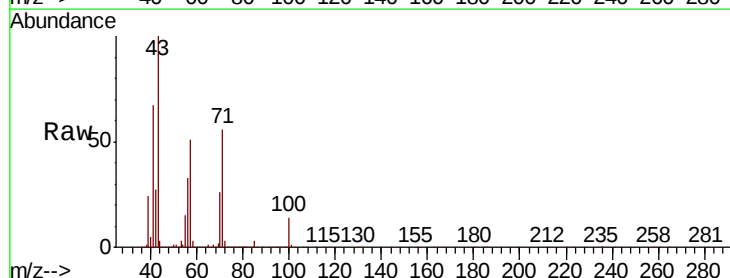
Acq: 7 Nov 2018 12:58

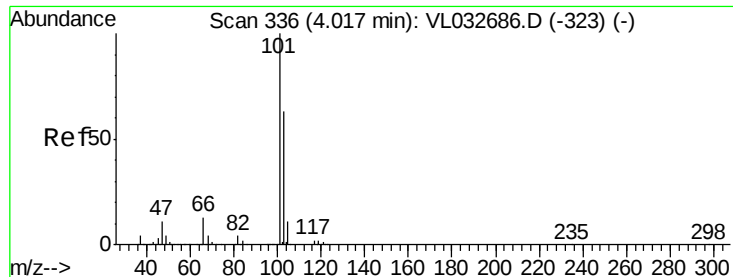
Tgt Ion: 43 Resp: 2030900

Ion Ratio Lower Upper

43 100

57 51.8 41.5 62.3





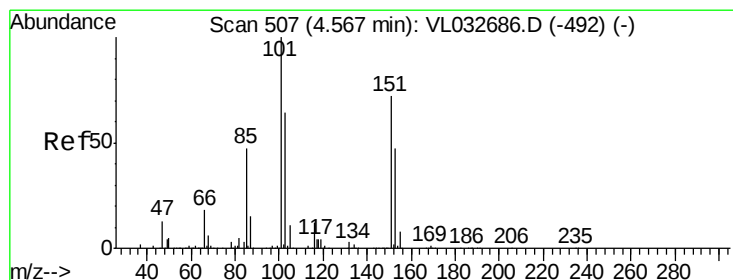
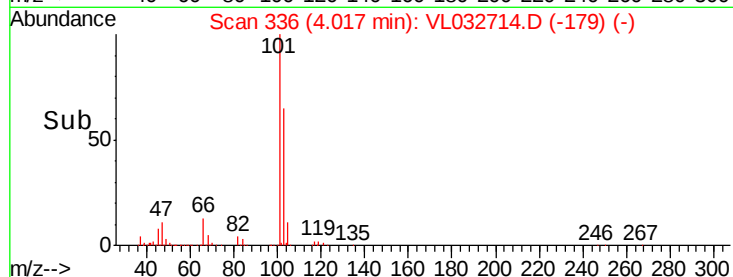
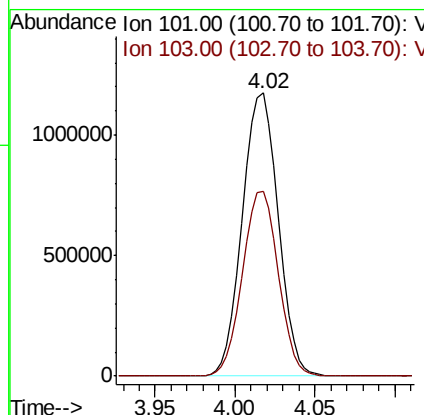
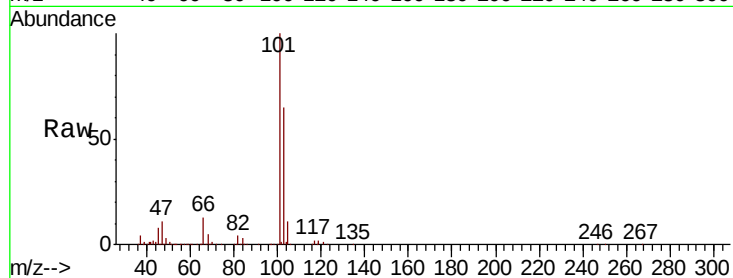
#11
 Trichlorofluoromethane
 Concen: 8.881 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Tot Ion:101 Resp: 1796397
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.4 77.2

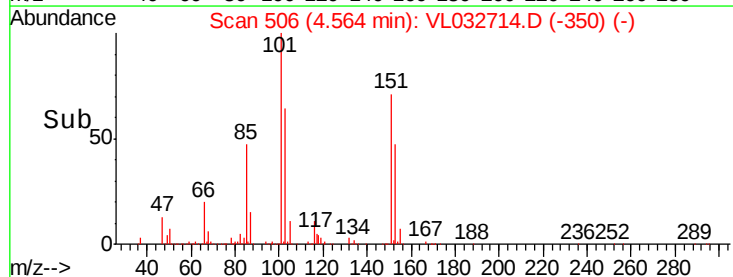
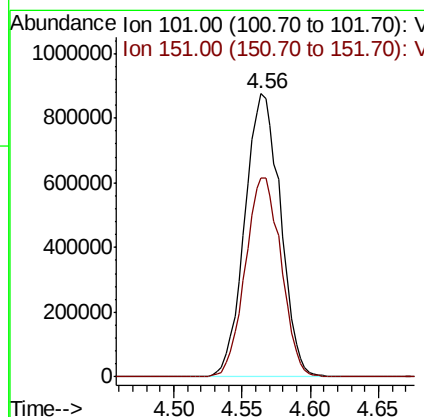
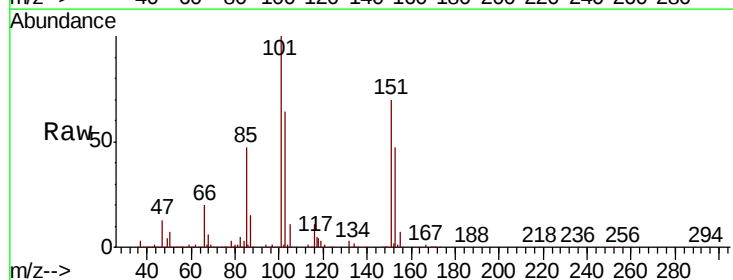
Manual Integrations
 APPROVED

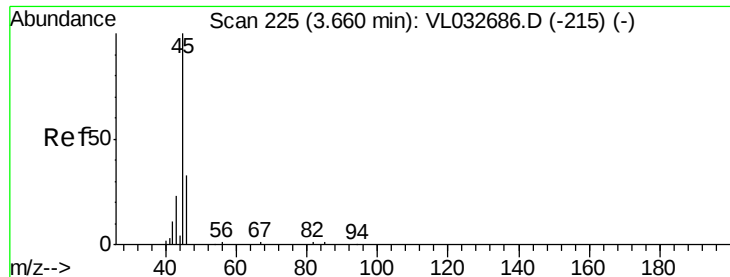
MMDadoda
 11/12/2018 12:30:01 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.436 ppbv
 RT: 4.56 min Scan# 506
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion:101 Resp: 1587239
 Ion Ratio Lower Upper
 101 100
 151 70.9 52.3 78.5





#13

Ethanol

Concen: 9.271 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 45 Resp: 129604

Ion Ratio Lower Upper

45 100

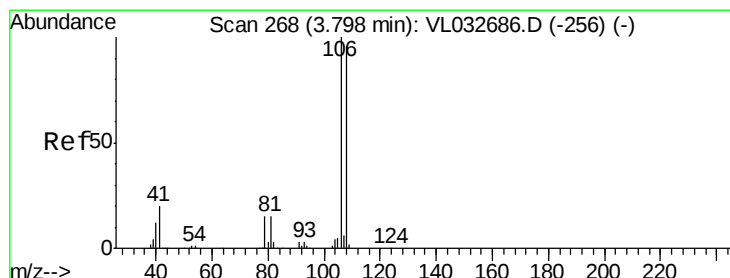
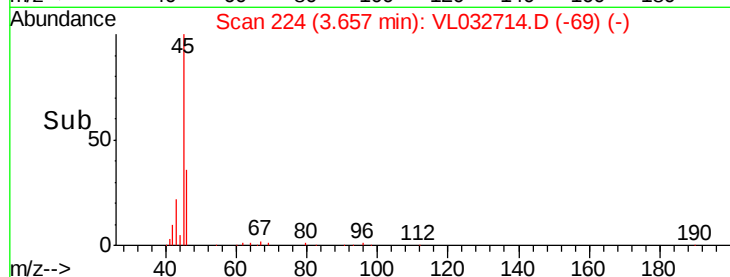
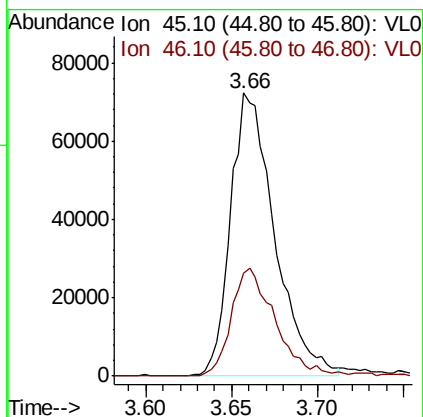
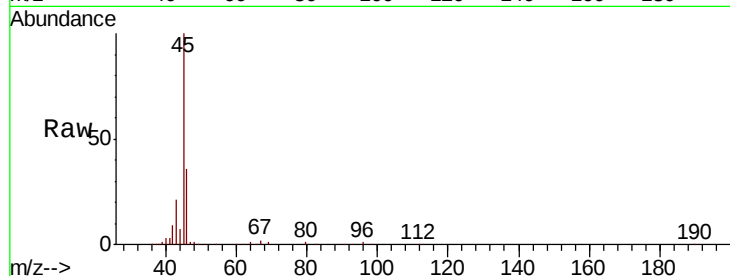
46 39.1 15.4 61.8

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:30:01 PM



#14

Bromoethene

Concen: 9.909 ppbv

RT: 3.80 min Scan# 268

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

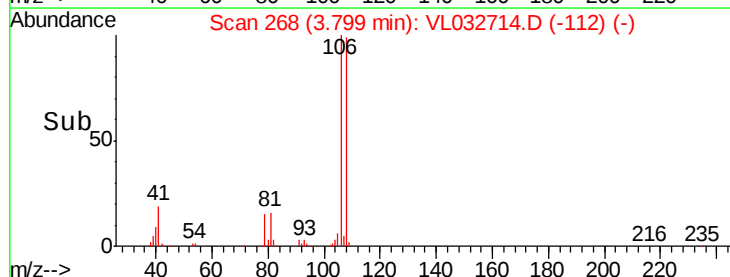
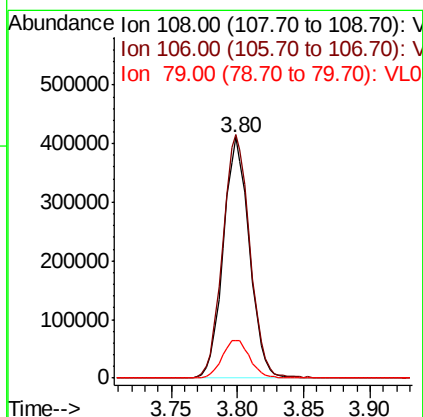
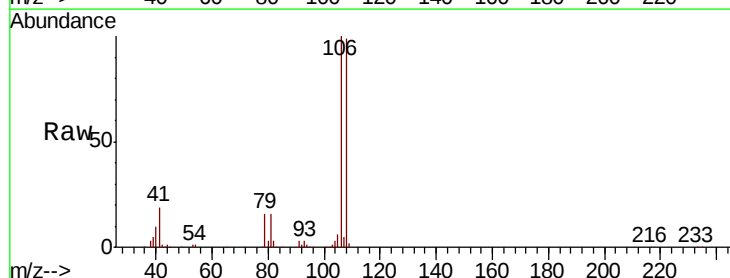
Tgt Ion: 108 Resp: 563302

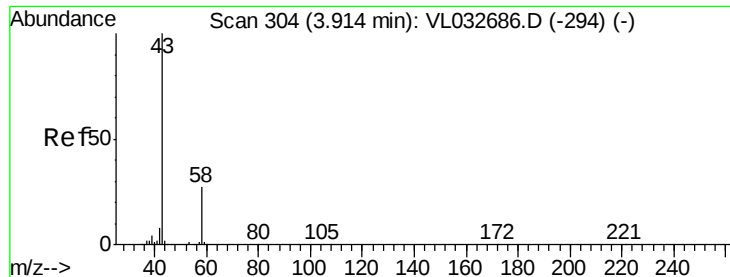
Ion Ratio Lower Upper

108 100

106 105.0 85.0 127.4

79 16.9 13.7 20.5





#15

Acetone

Concen: 8.503 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 43 Resp: 1193304

Ion Ratio Lower Upper

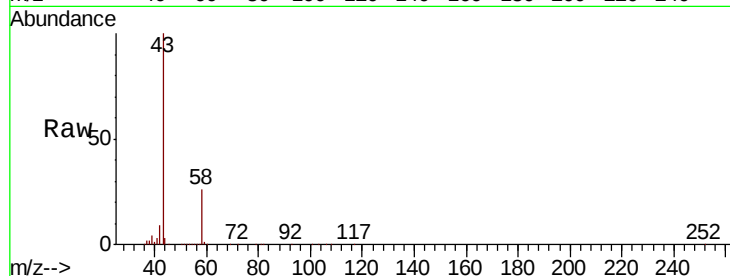
43 100

58 27.0 22.1 33.1

Manual Integrations
APPROVED

MMDadoda

11/12/2018 12:30:01 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

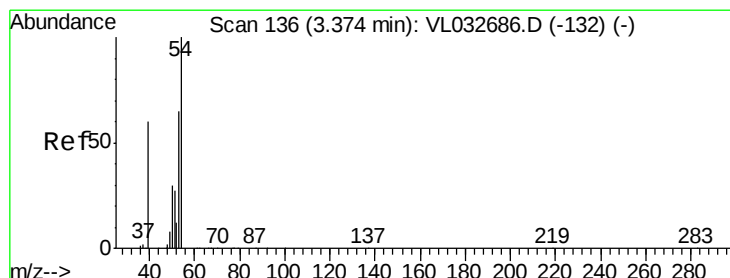
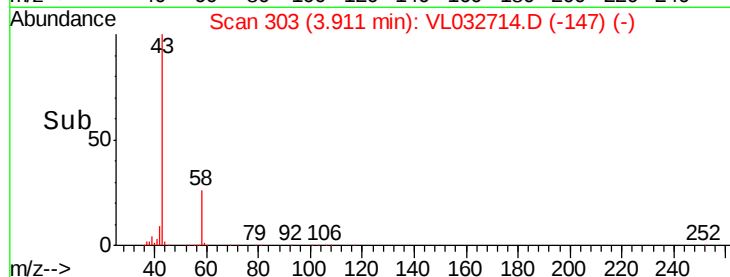
400000

200000

0

3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 10.767 ppbv

RT: 3.37 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL032714.D

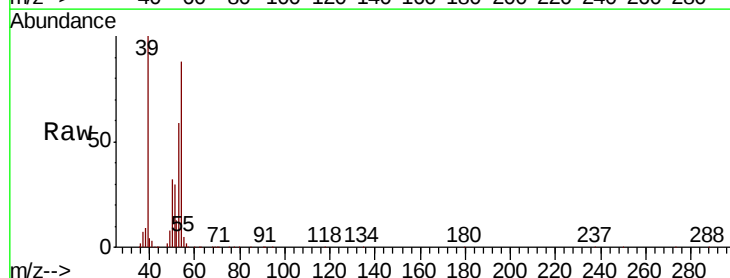
Acq: 7 Nov 2018 12:58

Tgt Ion: 39 Resp: 555895

Ion Ratio Lower Upper

39 100

54 95.9 90.4 135.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

500000

400000

300000

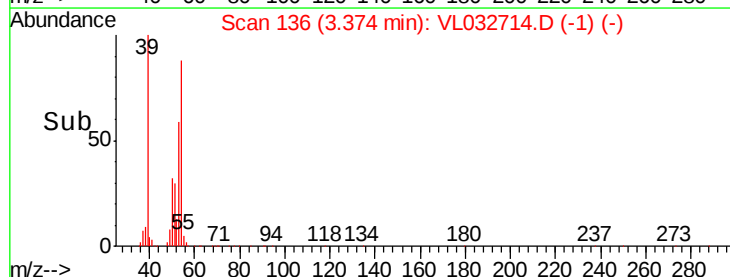
200000

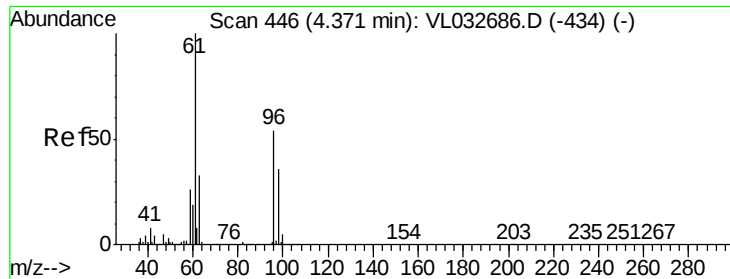
100000

0

3.34 3.36 3.38 3.40 3.42

Time-->





#17

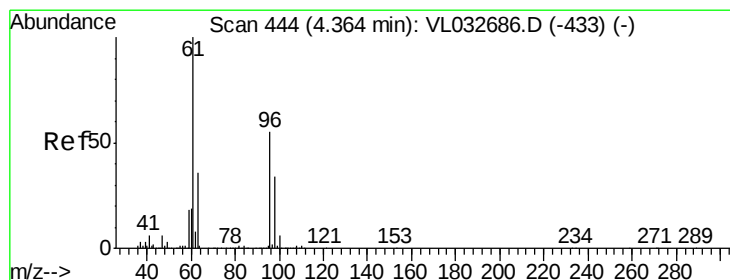
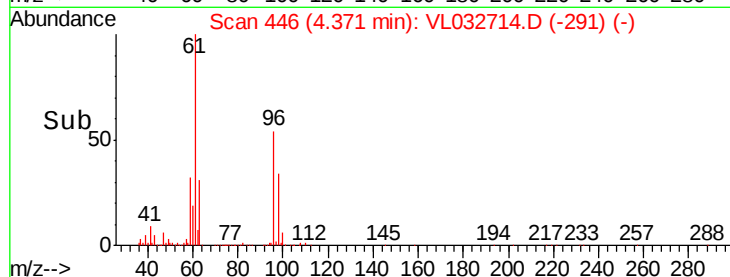
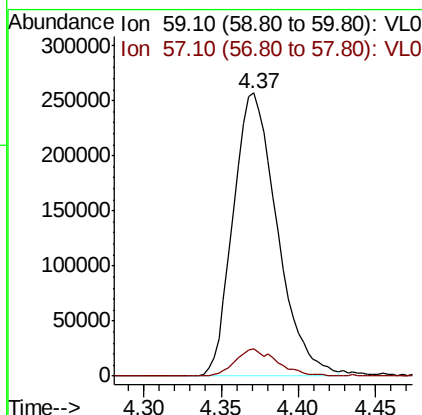
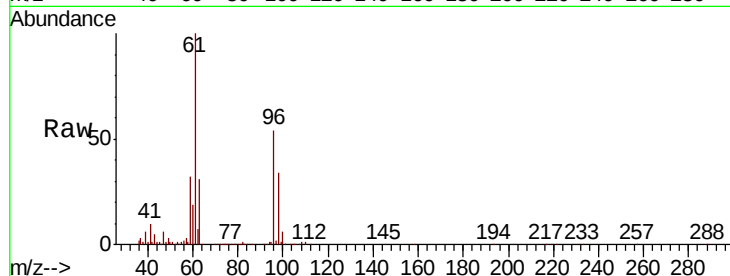
tert-Butyl alcohol
Concen: 12.303 ppbv
RT: 4.37 min Scan# 446
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.3	0.0	0.0#

Manual Integrations
APPROVED

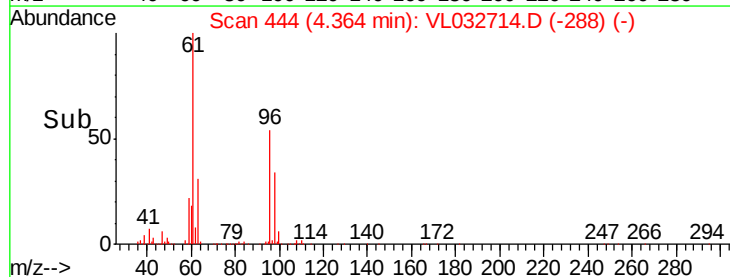
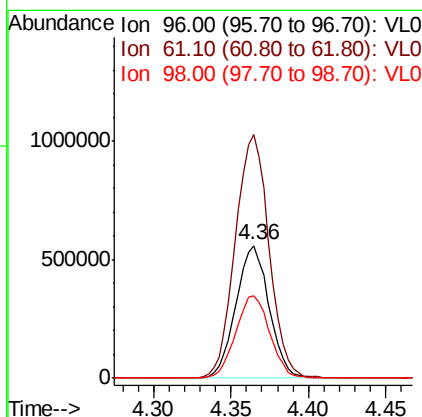
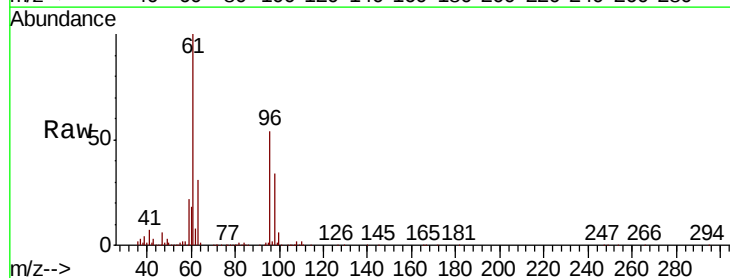
MMDadoda
11/12/2018 12:30:01 PM

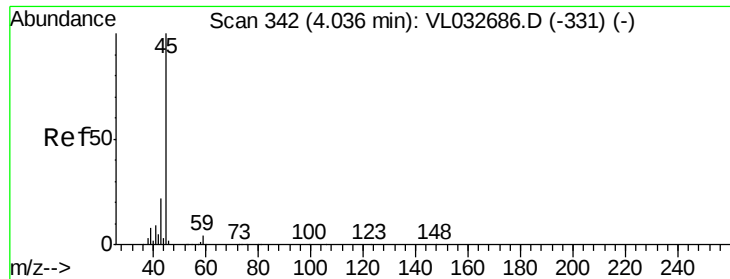


#18

1,1-Dichloroethene
Concen: 11.272 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.0	151.6	227.4
98	62.7	50.6	75.8





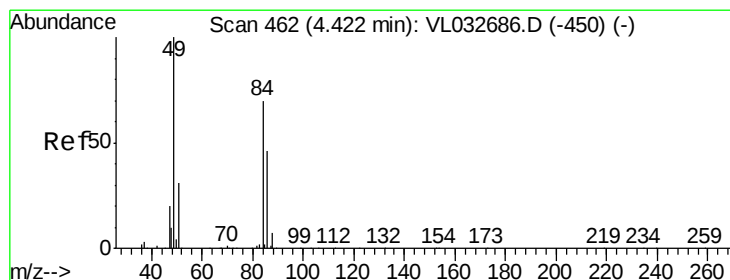
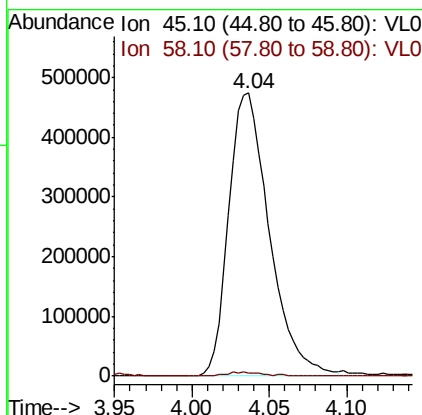
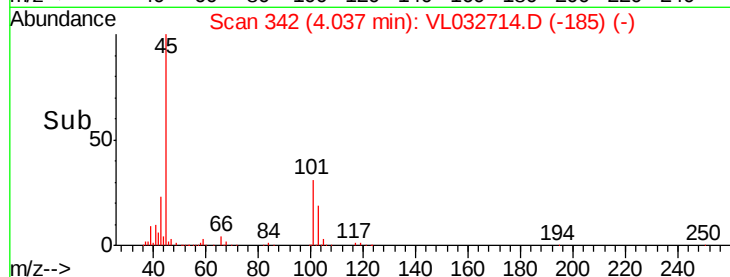
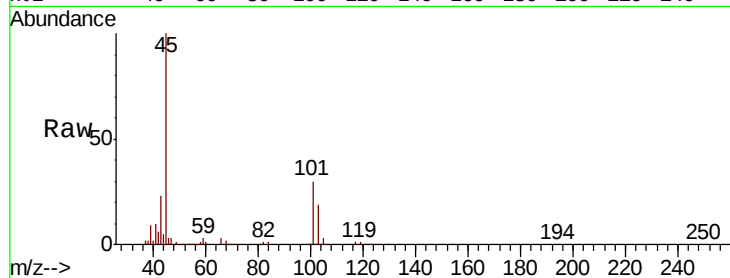
#19
Isopropyl Alcohol
Concen: 8.627 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion: 45 Resp: 862274
Ion Ratio Lower Upper
45 100
58 1.4 2.0 3.0#

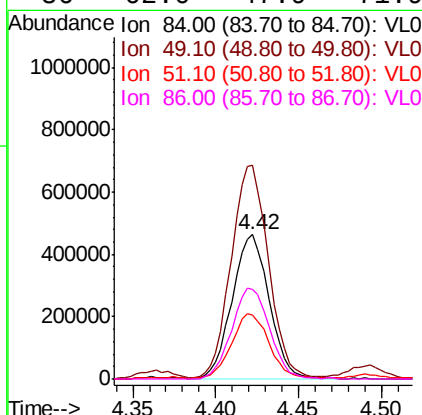
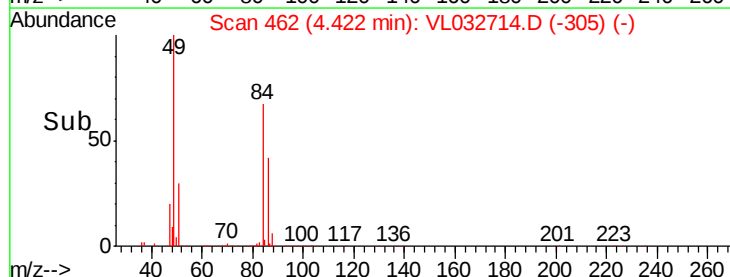
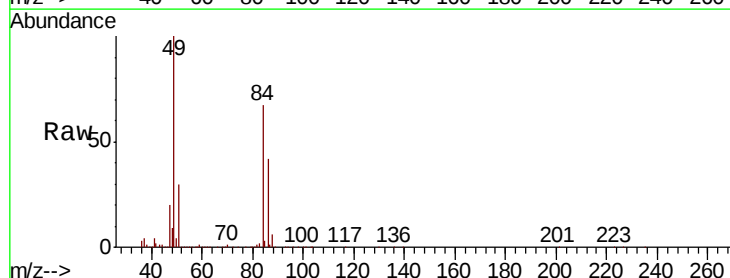
Manual Integrations
APPROVED

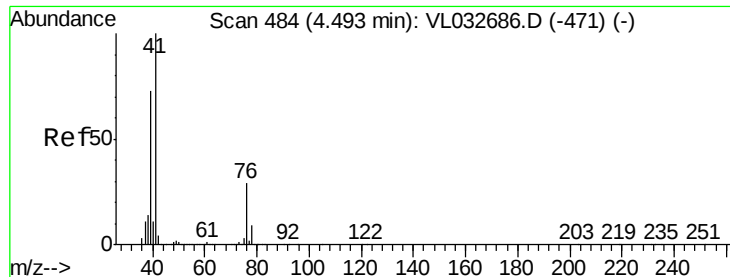
MMDadoda
11/12/2018 12:30:01 PM



#20
Methylene Chloride
Concen: 10.086 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 84 Resp: 718517
Ion Ratio Lower Upper
84 100
49 147.3 113.5 170.3
51 44.3 34.8 52.2
86 62.0 47.9 71.9





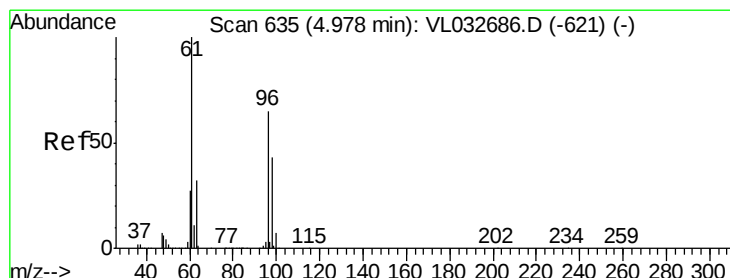
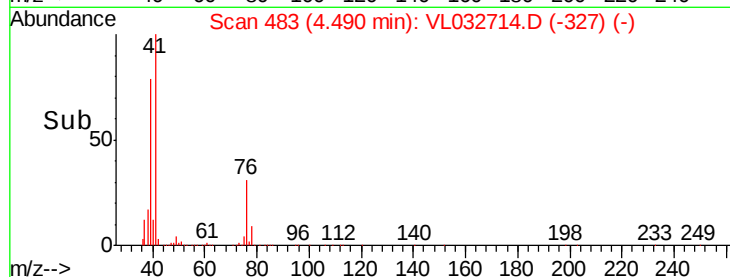
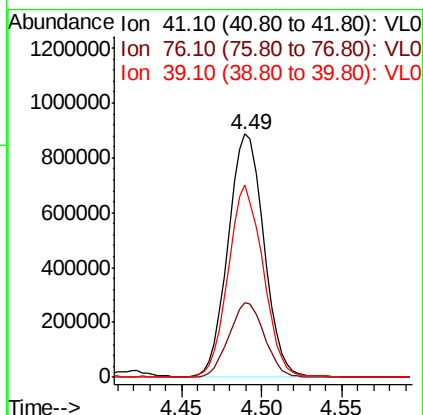
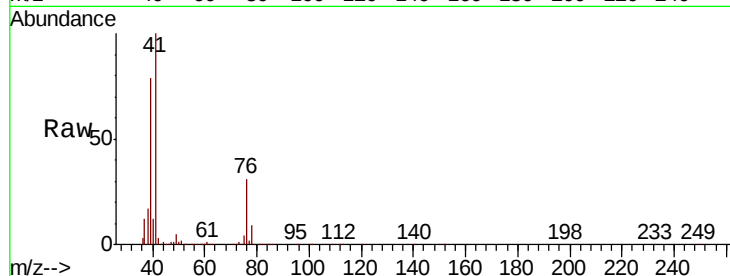
#21
Allvl Chloride
Concen: 11.698 ppbv
RT: 4.49 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion: 41 Resp: 1347937
Ion Ratio Lower Upper
41 100
76 30.7 24.3 36.5
39 77.4 60.3 90.5

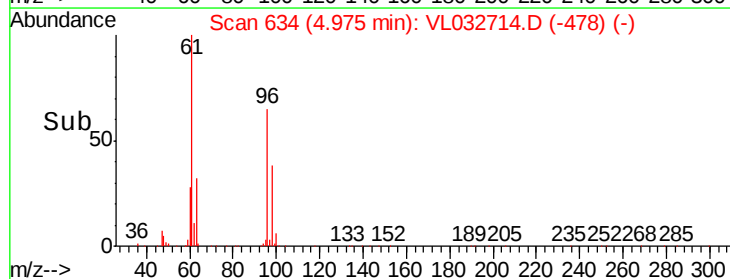
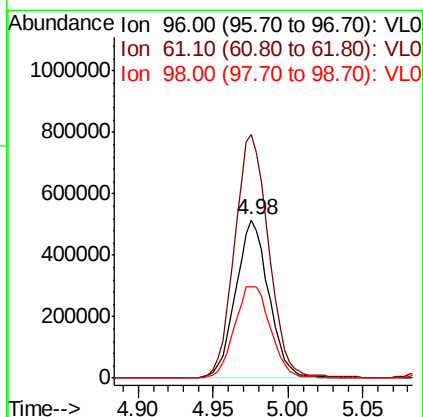
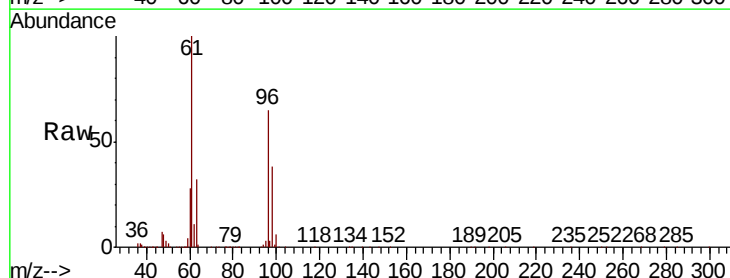
Manual Integrations
APPROVED

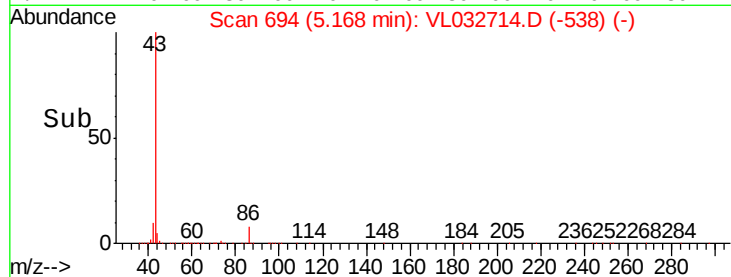
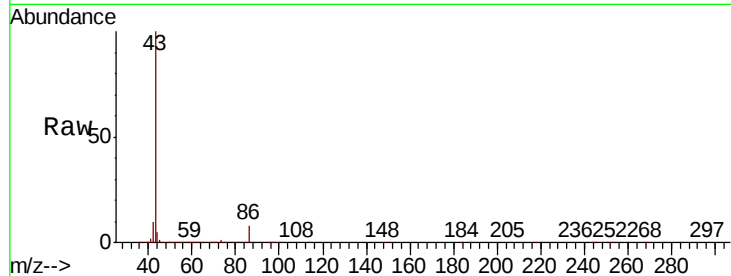
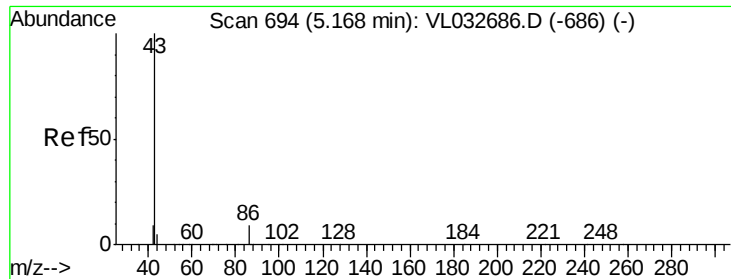
MMDadoda
11/12/2018 12:30:01 PM



#22
trans-1,2-Dichloroethene
Concen: 10.459 ppbv
RT: 4.98 min Scan# 634
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 96 Resp: 792701
Ion Ratio Lower Upper
96 100
61 154.1 140.4 210.6
98 58.0 55.0 82.6





#23

Vinyl Acetate

Concen: 10.892 ppbv

RT: 5.17 min Scan# 694

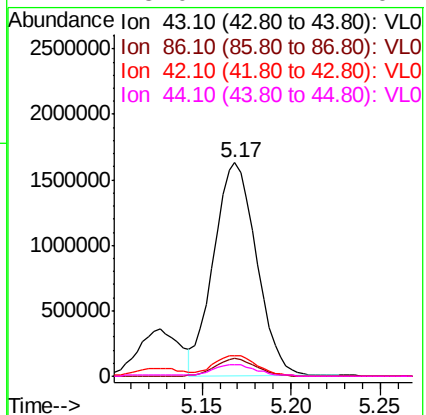
Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tot Ion: 43 Resp: 2708770

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.1	9.1
42	9.7	7.4	11.2
44	5.0	4.2	6.2



Instrument :

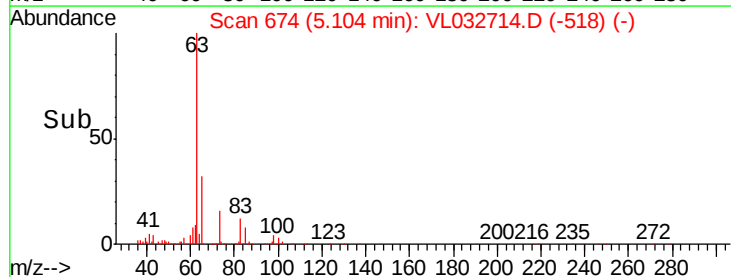
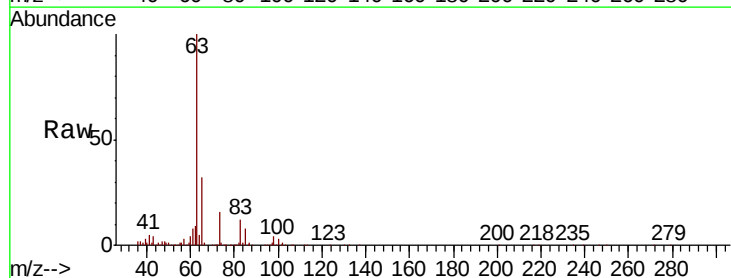
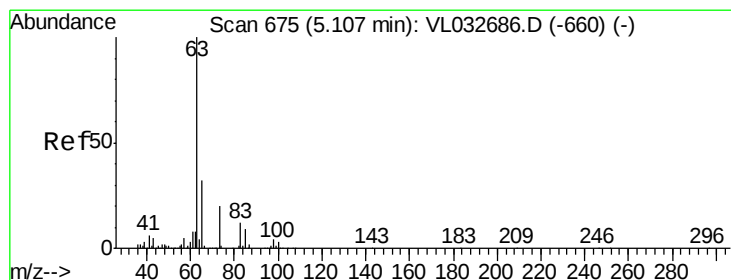
MSVOA_L

ClientSampleId :

VL1107ABS01

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:30:01 PM



#24

1,1-Dichloroethane

Concen: 10.035 ppbv

RT: 5.10 min Scan# 674

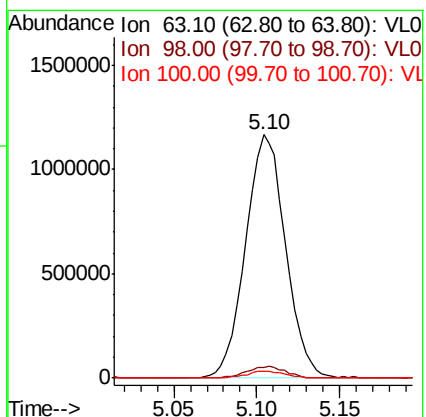
Delta R.T. 0.00 min

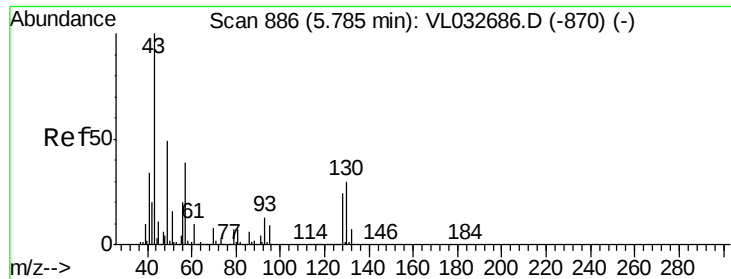
Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion: 63 Resp: 1959074

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.3
100	2.7	1.2	3.6





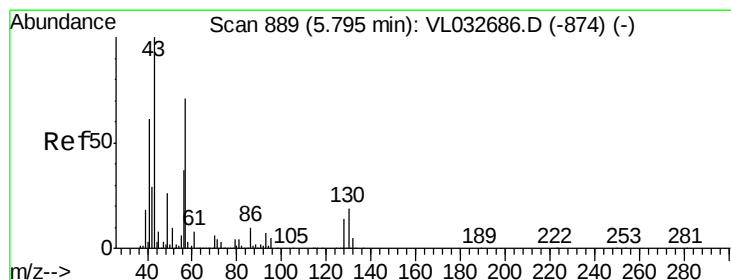
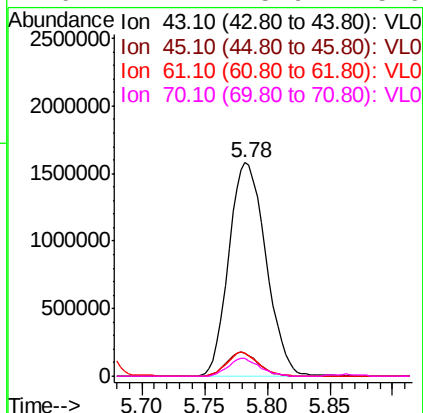
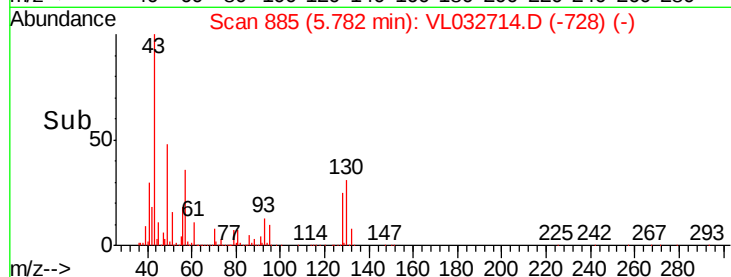
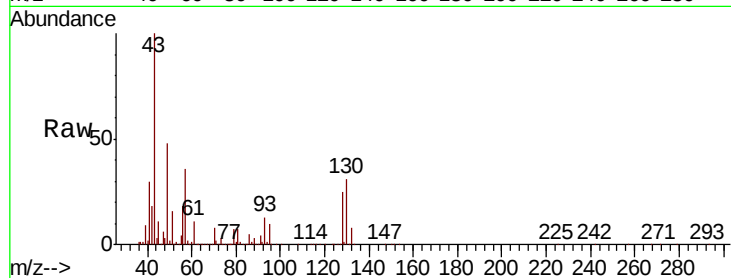
#25
Ethyl Acetate
Concen: 10.053 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion	43	Resp	3247416
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.3	8.0	12.0
70	7.2	5.9	8.9

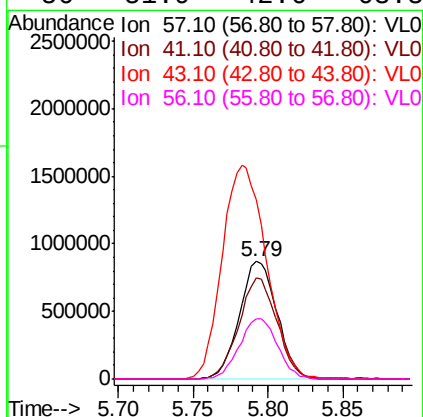
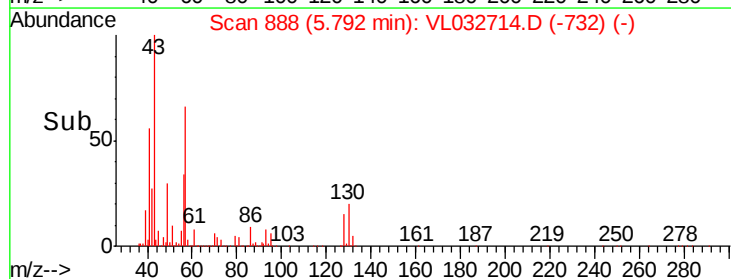
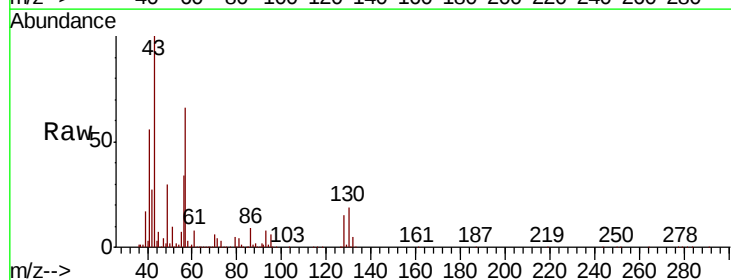
Manual Integrations
APPROVED

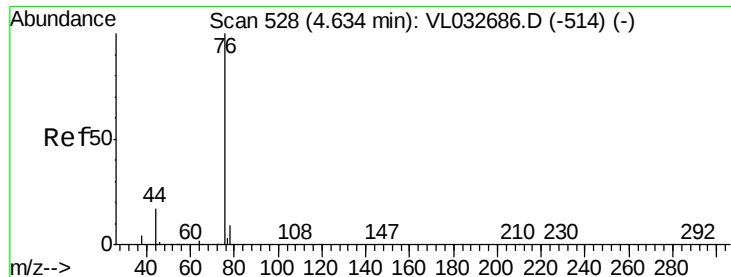
MMDadoda
11/12/2018 12:30:01 PM



#26
Hexane
Concen: 9.989 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion	57	Resp	1526756
Ion	Ratio	Lower	Upper
57	100		
41	86.6	67.4	101.0
43	213.8	171.9	257.9
56	51.9	42.6	63.8





#27

Carbon Disulfide

Concen: 11.230 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tot Ion: 76 Resp: 2082228

Ion Ratio Lower Upper

76 100

44 18.3 13.7 20.5

78 9.0 7.4 11.2

Instrument :

MSVOA_L

ClientSampleId :

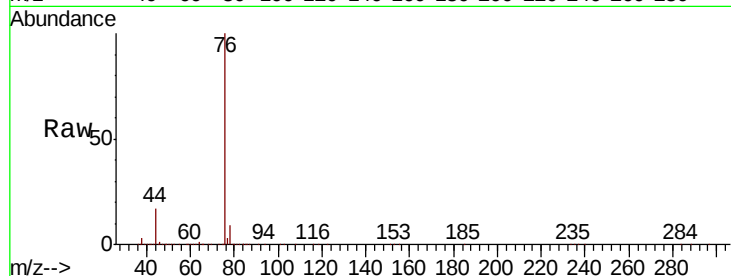
VL1107ABS01

Manual Integrations

APPROVED

MMDadoda

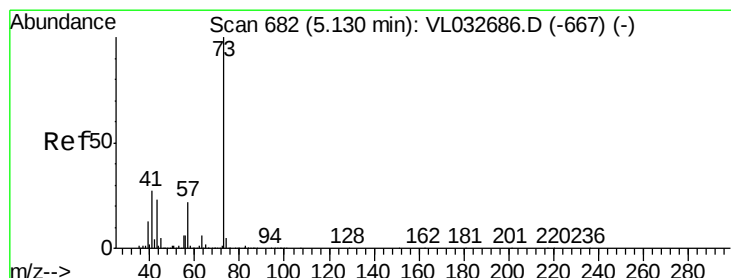
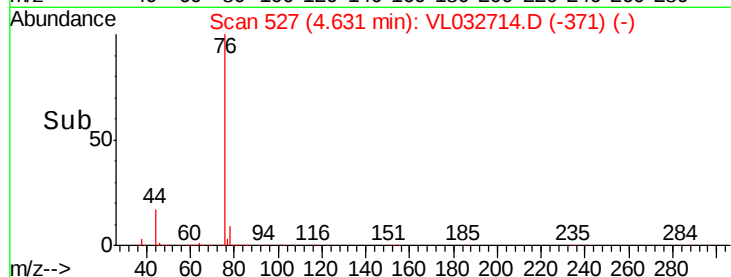
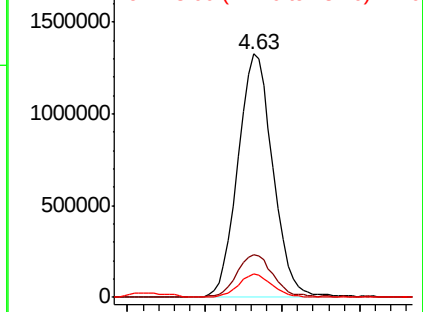
11/12/2018 12:30:01 PM



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: 11.288 ppbv

RT: 5.13 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL032714.D

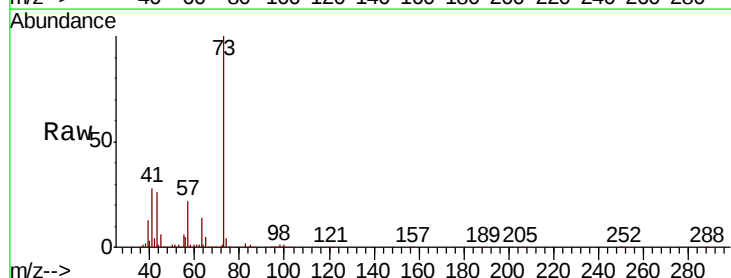
Acq: 7 Nov 2018 12:58

Tgt Ion: 73 Resp: 2479576

Ion Ratio Lower Upper

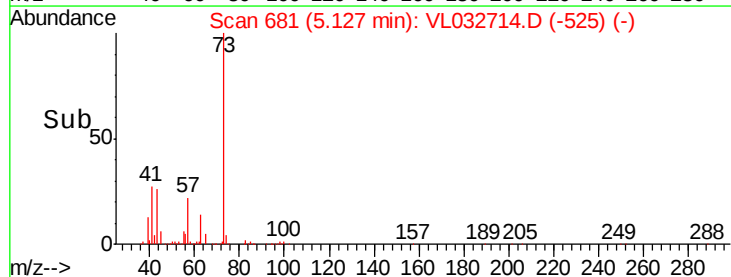
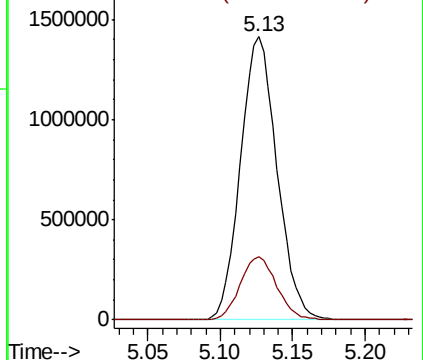
73 100

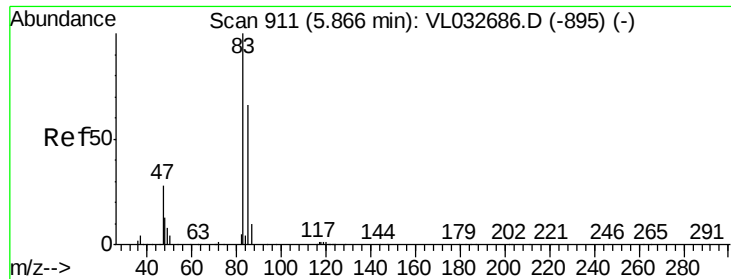
57 22.5 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.562 ppbv

RT: 5.87 min Scan# 911

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 83 Resp: 2578756

Ion Ratio Lower Upper

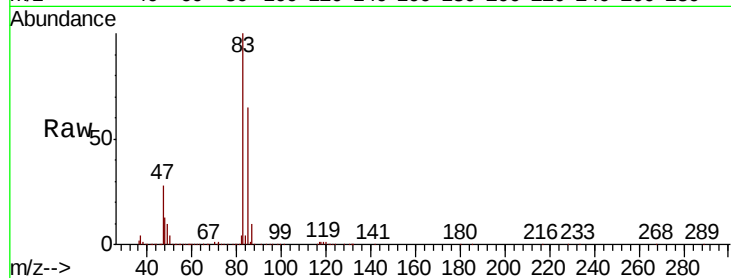
83 100

85 65.2 53.0 79.6

Manual Integrations
APPROVED

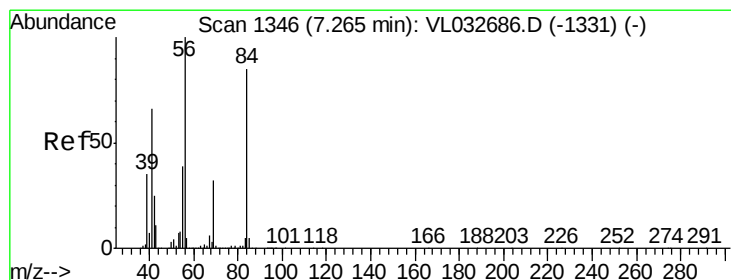
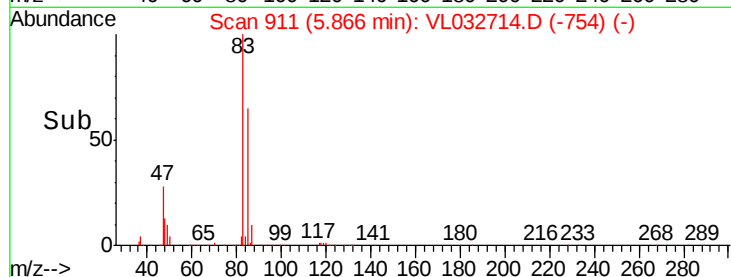
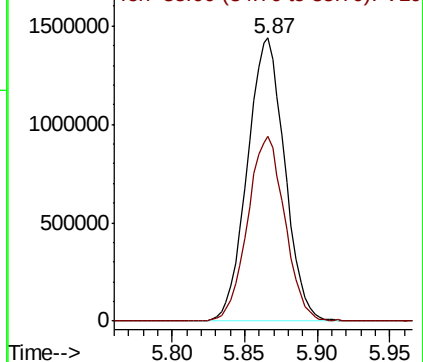
MMDadoda

11/12/2018 12:30:01 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 11.386 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

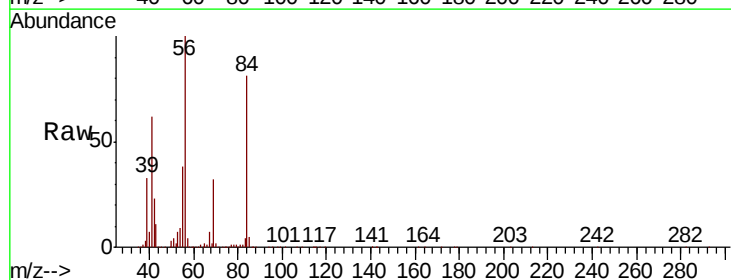
Tgt Ion: 84 Resp: 1377521

Ion Ratio Lower Upper

84 100

56 130.9 108.3 162.5

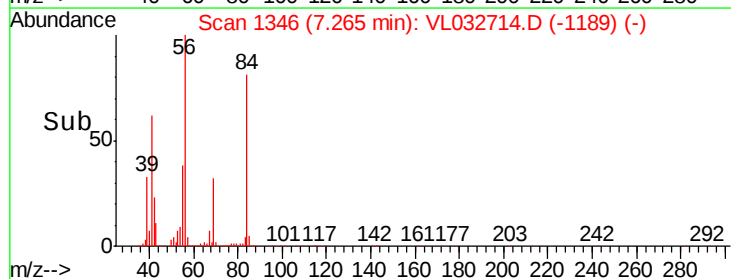
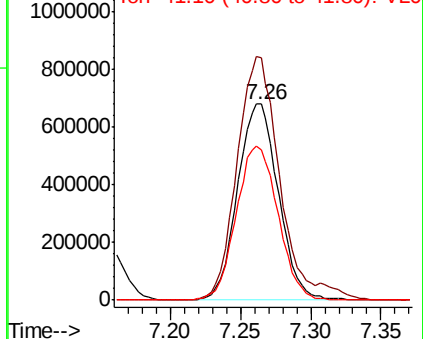
41 80.5 64.8 97.2

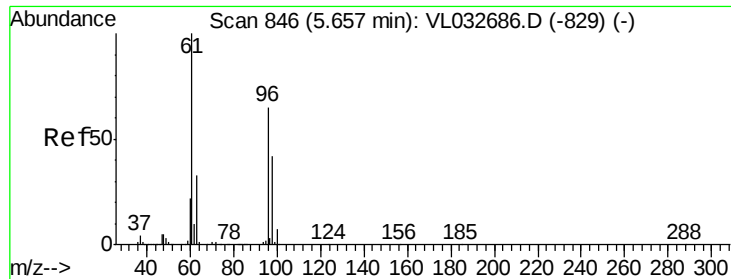


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

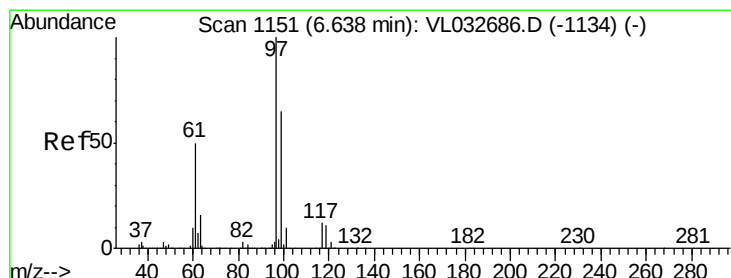
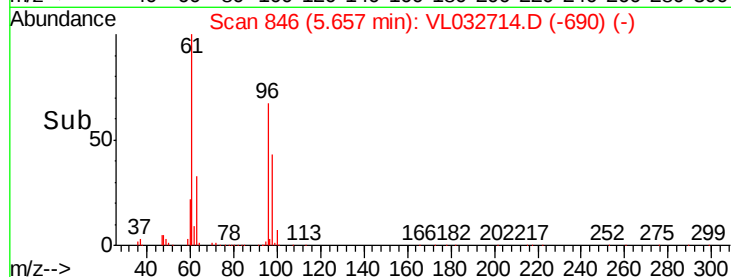
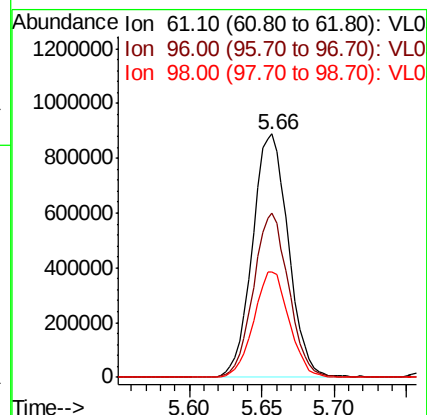
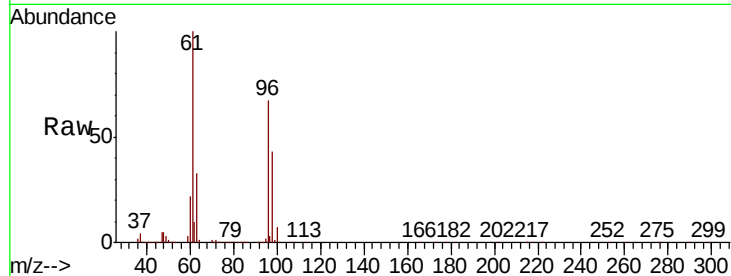
cis-1,2-Dichloroethene
Concen: 10.824 ppbv
RT: 5.66 min Scan# 846
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion	Ion	Ratio	Lower	Upper
61	100			
96	67.4	51.8	77.6	
98	43.1	33.8	50.6	

Manual Integrations
APPROVED

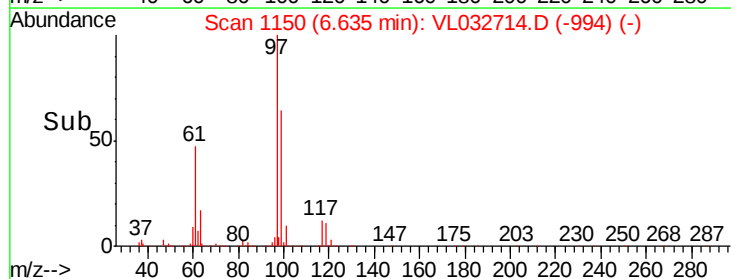
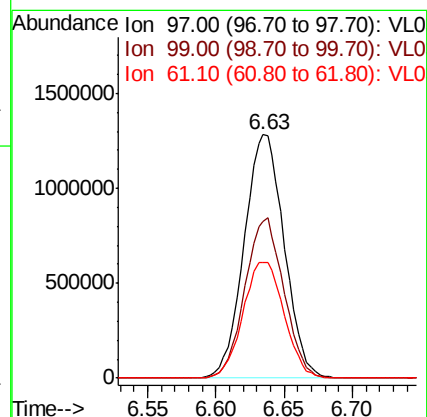
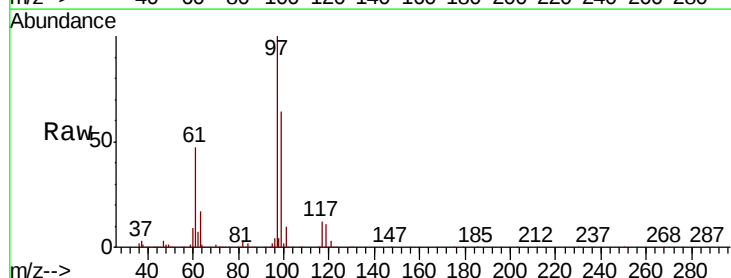
MMDadoda
11/12/2018 12:30:01 PM

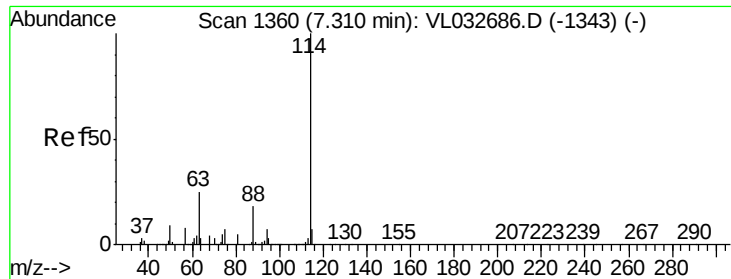


#32

1,1,1-Trichloroethane
Concen: 10.499 ppbv
RT: 6.63 min Scan# 1150
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	64.1	52.0	78.0	
61	49.1	40.7	61.1	





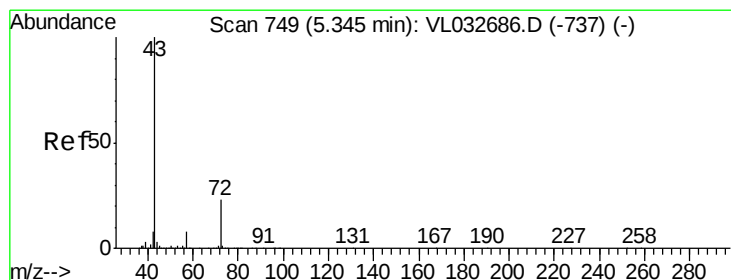
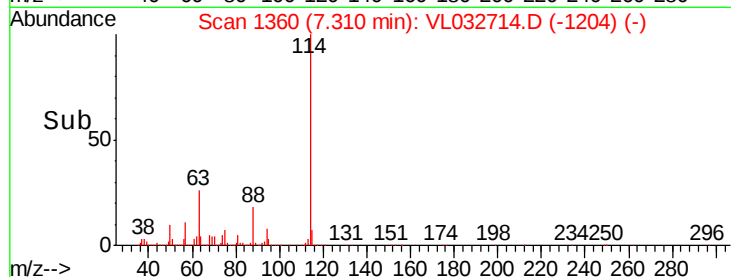
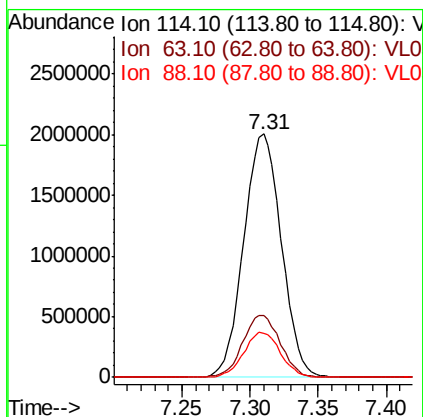
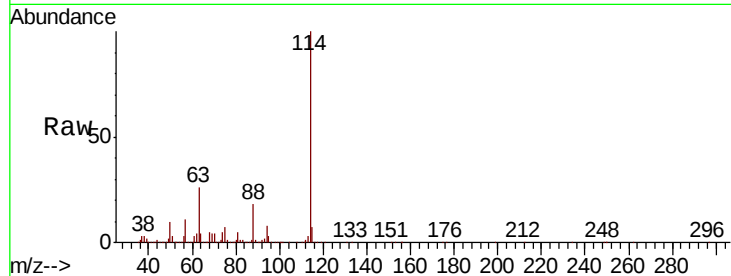
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.7	32.5
88	18.0	14.9	22.3

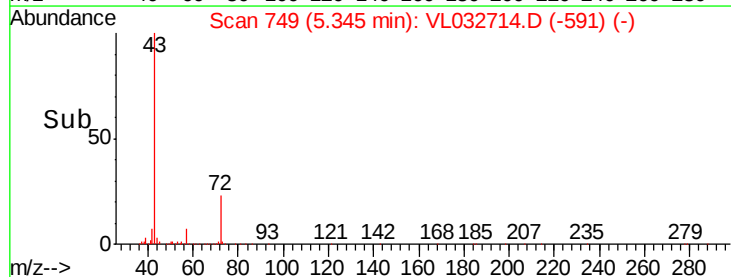
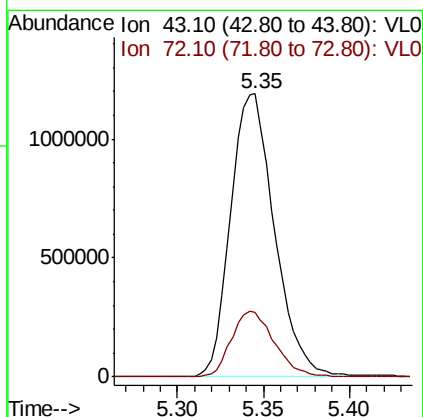
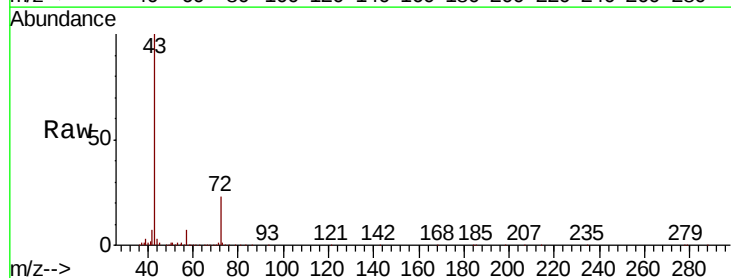
Manual Integrations
 APPROVED

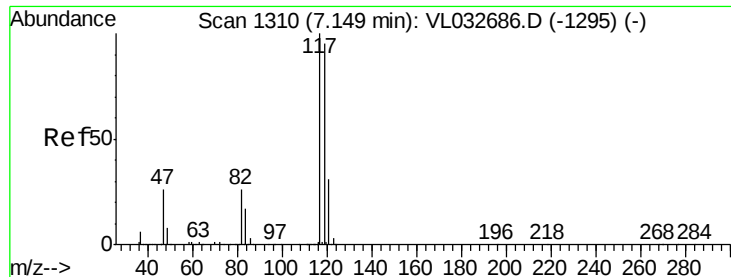
MMDadoda
 11/12/2018 12:30:01 PM



#34
 2-Butanone
 Concen: 10.172 ppbv
 RT: 5.35 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.6	27.8





#35

Carbon Tetrachloride

Concen: 10.226 ppbv

RT: 7.15 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 117 Resp: 2792240

Ion Ratio Lower Upper

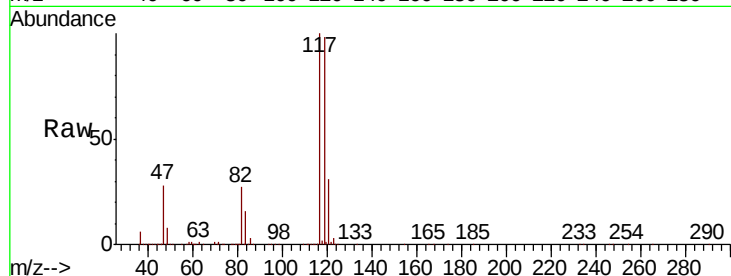
117 100

119 98.4 75.7 113.5

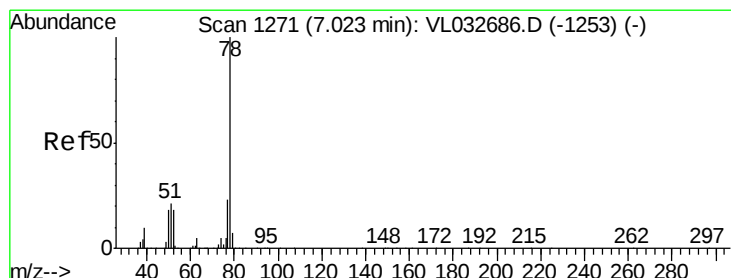
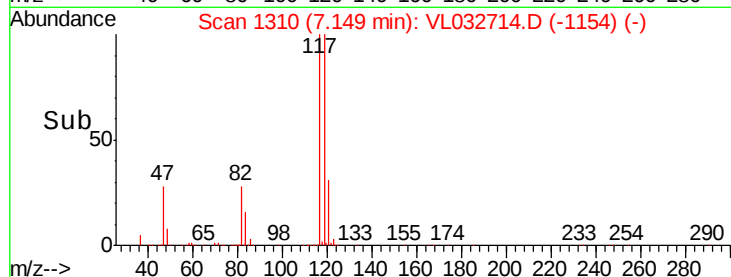
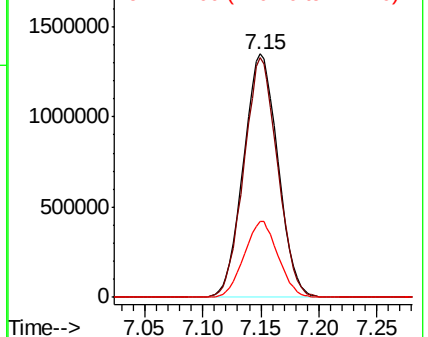
121 31.0 24.7 37.1

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:30:01 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: 10.483 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

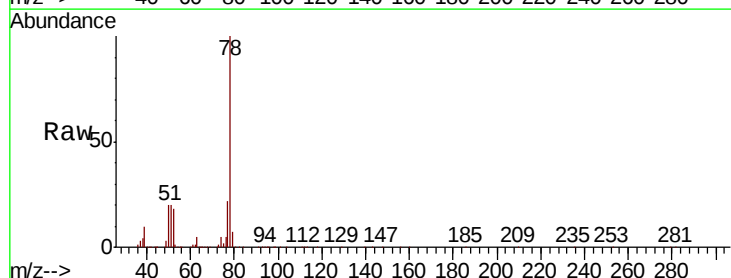
Tgt Ion: 78 Resp: 3275220

Ion Ratio Lower Upper

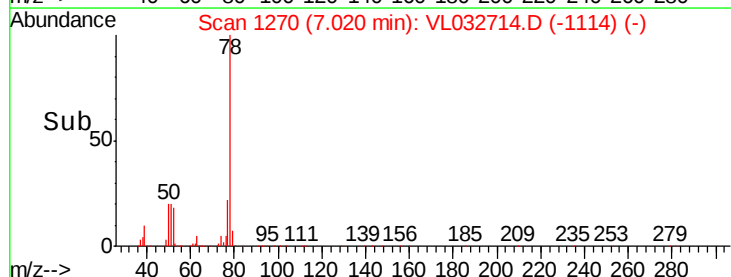
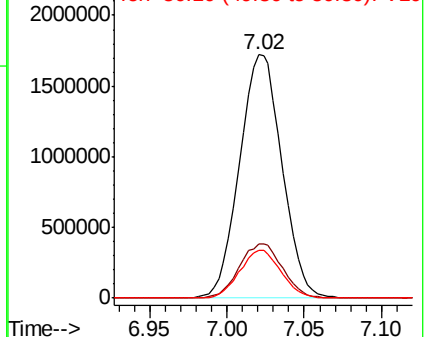
78 100

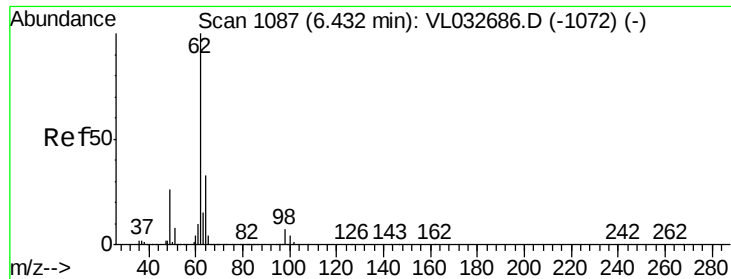
77 22.3 18.1 27.1

50 19.8 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





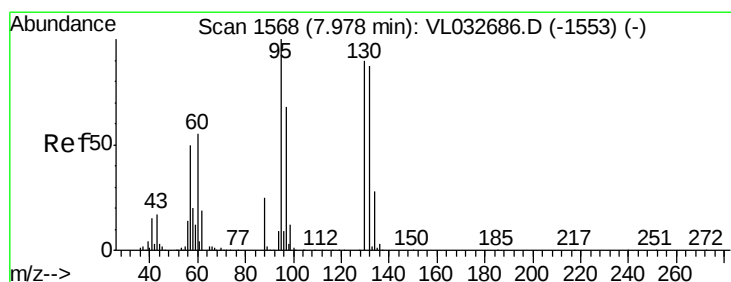
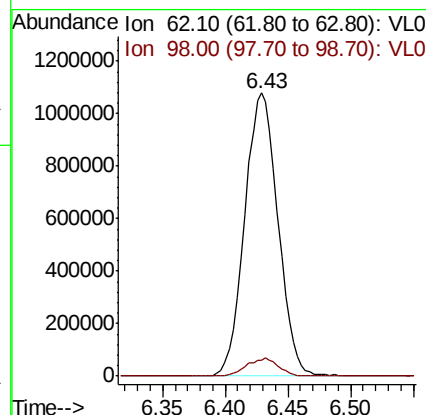
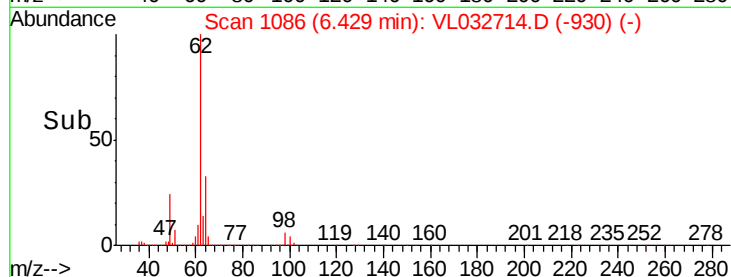
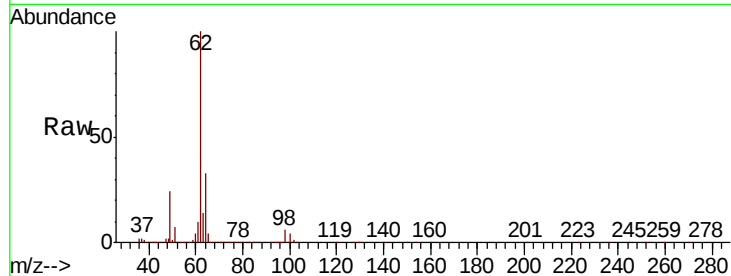
#37
 1,2-Dichloroethane
 Concen: 10.383 ppbv
 RT: 6.43 min Scan# 1086
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.4	6.6

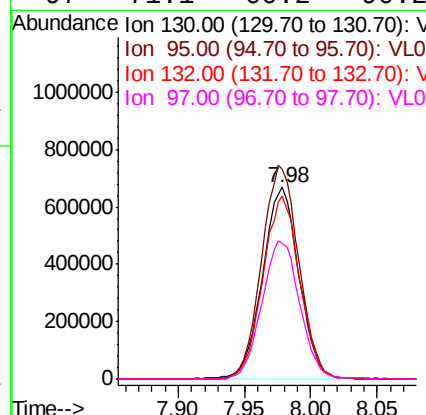
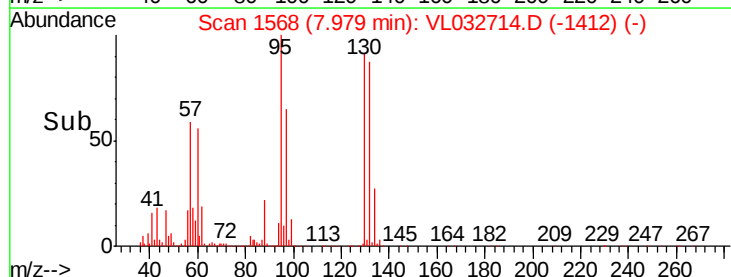
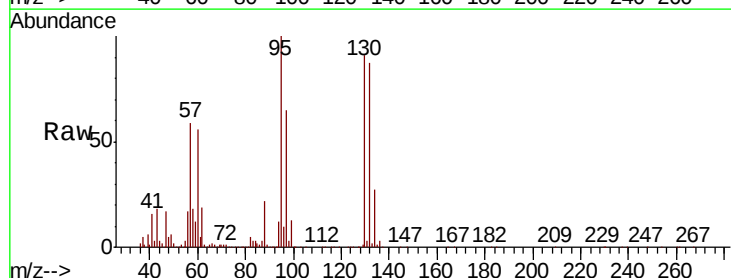
Manual Integrations
 APPROVED

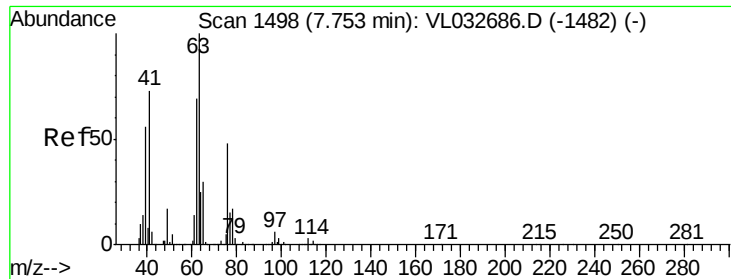
MMDadoda
 11/12/2018 12:30:01 PM



#38
 Trichloroethene
 Concen: 11.114 ppbv
 RT: 7.98 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	109.8	93.4	140.0
132	95.3	76.5	114.7
97	71.1	60.2	90.2





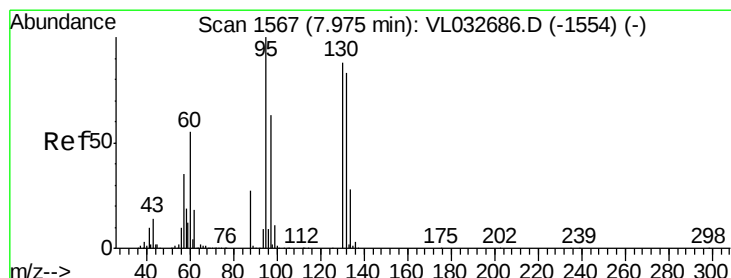
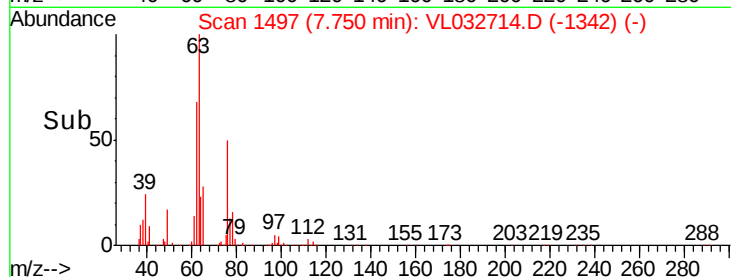
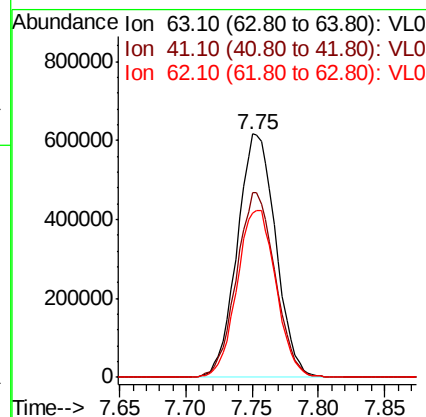
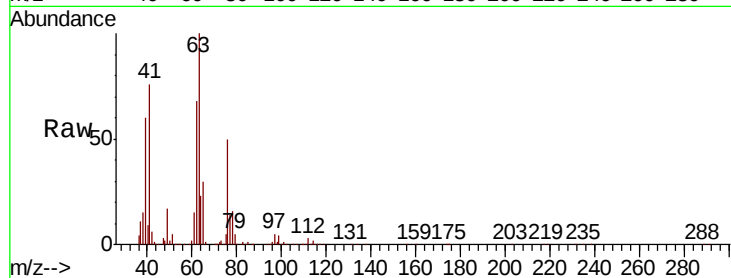
#39
 1,2-Dichloropropane
 Concen: 10.263 ppbv
 RT: 7.75 min Scan# 1497
 Delta R.T. -0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.9	56.2	84.4
62	67.6	54.4	81.6

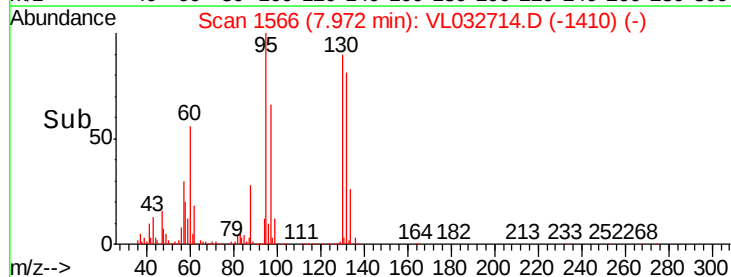
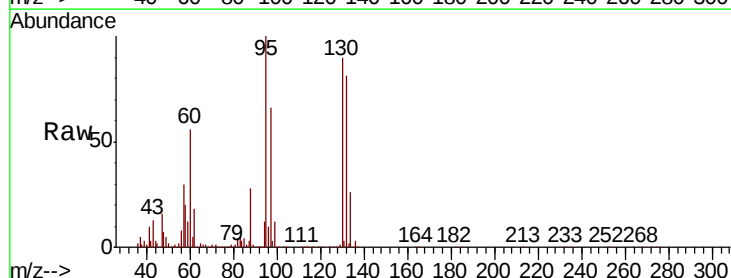
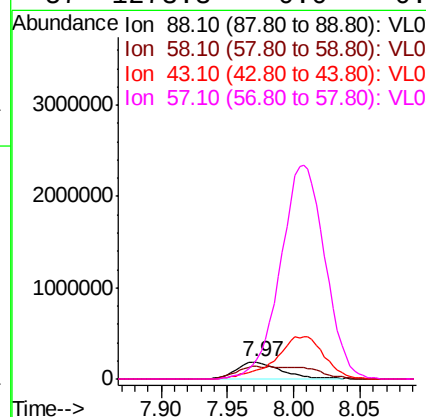
Manual Integrations
 APPROVED

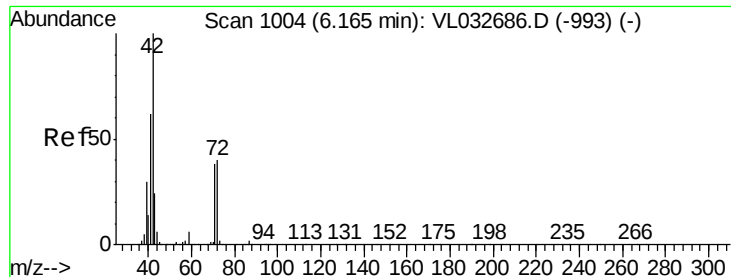
MMDadoda
 11/12/2018 12:30:01 PM



#40
 1,4-Dioxane
 Concen: 10.529 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.6	104.0	156.0
43	278.1	0.0	0.0#
57	1273.3	0.0	0.0#





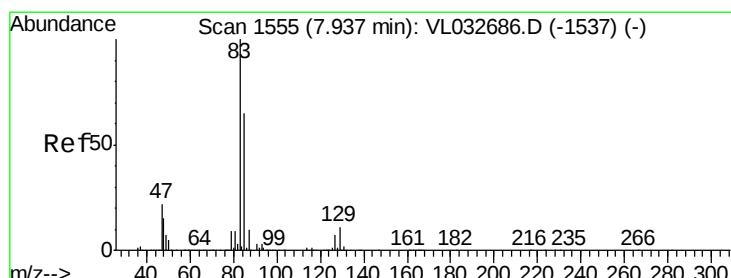
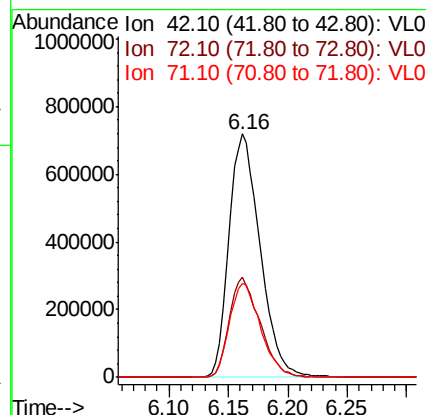
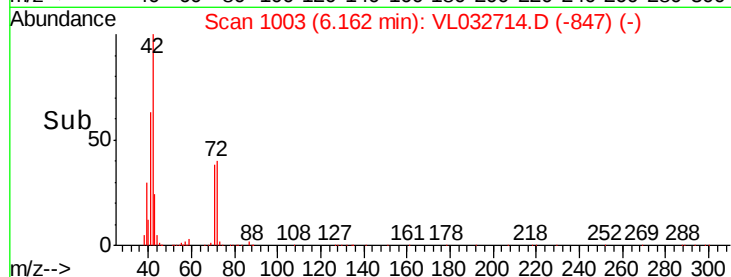
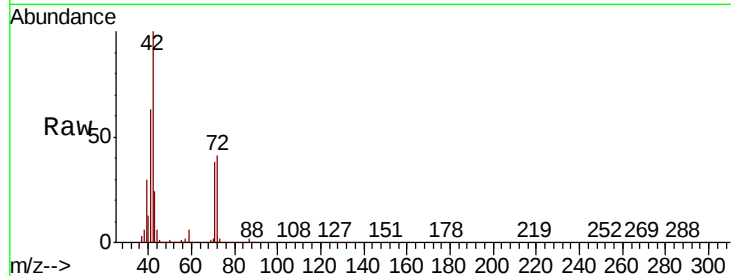
#41
Tetrahydrofuran
Concen: 11.401 ppbv
RT: 6.16 min Scan# 1003
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	32.4	48.6
71	38.7	31.3	46.9

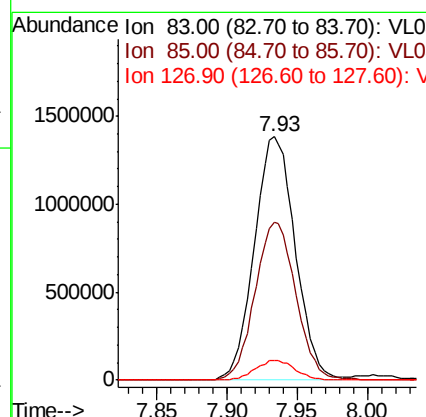
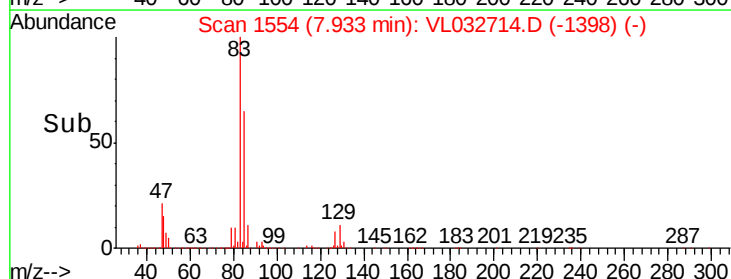
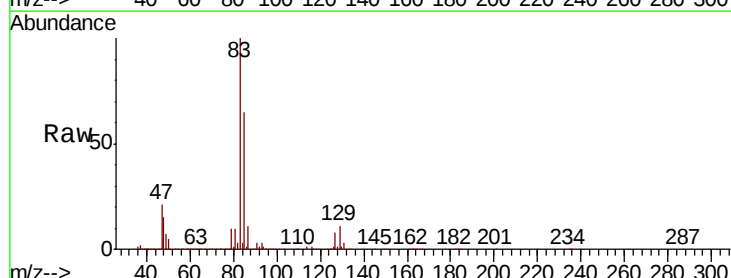
Manual Integrations
APPROVED

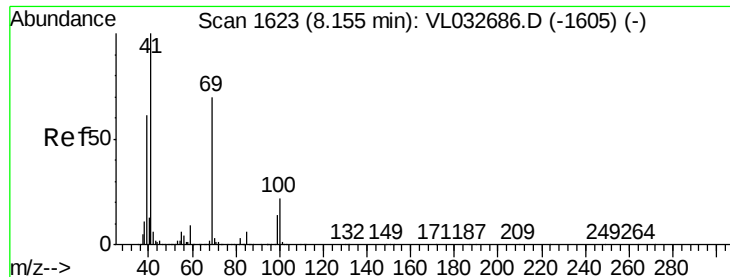
MMDadoda
11/12/2018 12:30:01 PM



#42
Bromodichloromethane
Concen: 10.458 ppbv
RT: 7.93 min Scan# 1554
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.4	78.6
127	8.2	6.1	9.1





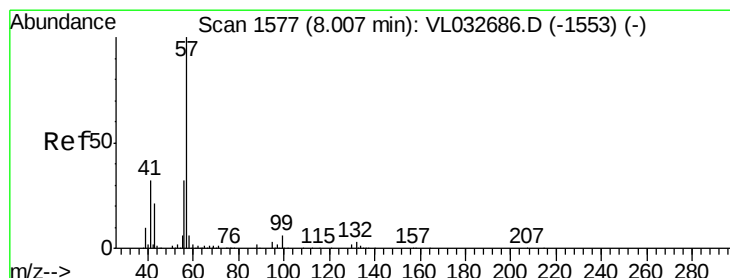
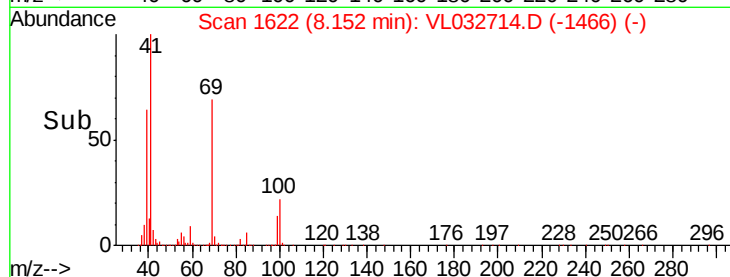
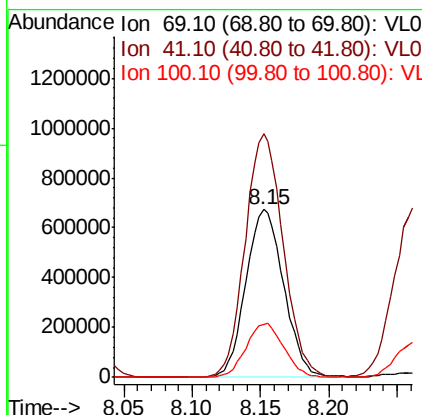
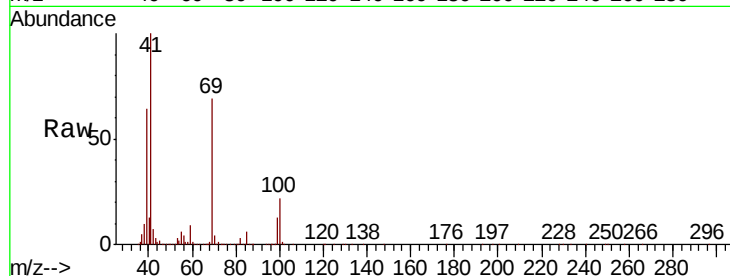
#43
Methvl Methacrilate
Concen: 11.352 ppbv
RT: 8.15 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion: 69 Resp: 1299805
Ion Ratio Lower Upper
69 100
41 145.3 113.2 169.8
100 32.0 24.4 36.6

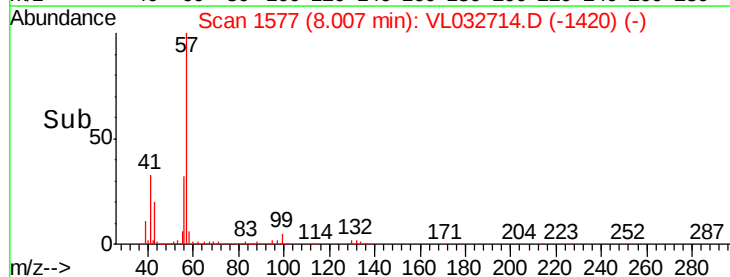
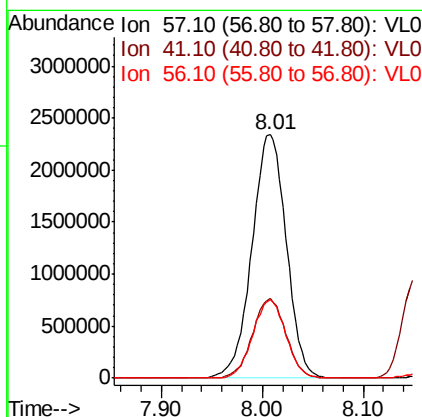
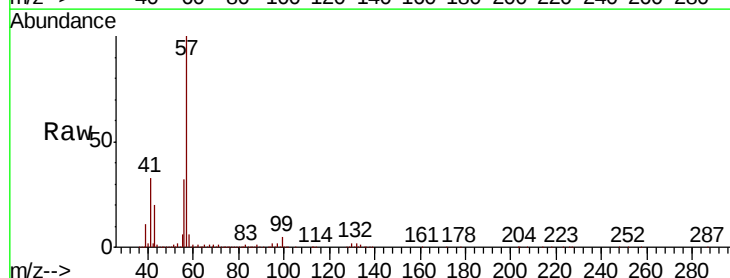
Manual Integrations
APPROVED

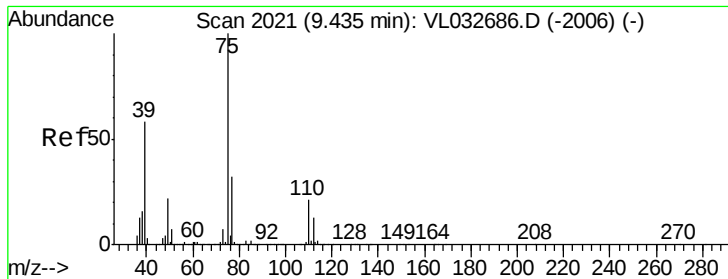
MMDadoda
11/12/2018 12:30:01 PM



#44
2,2,4-Trimethylpentane
Concen: 10.347 ppbv
RT: 8.01 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 57 Resp: 5518161
Ion Ratio Lower Upper
57 100
41 31.9 24.7 37.1
56 31.2 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 11.886 ppbv

RT: 9.43 min Scan# 2020

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 75 Resp: 1821628

Ion Ratio Lower Upper

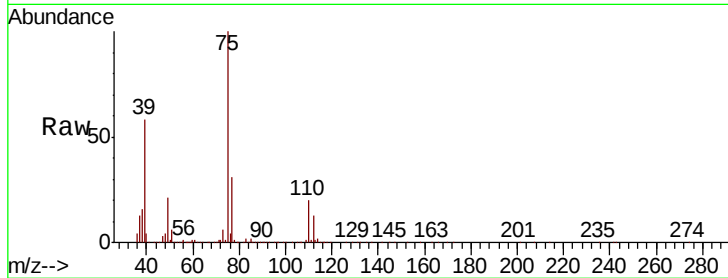
75 100

77 30.9 25.3 37.9

Manual Integrations
APPROVED

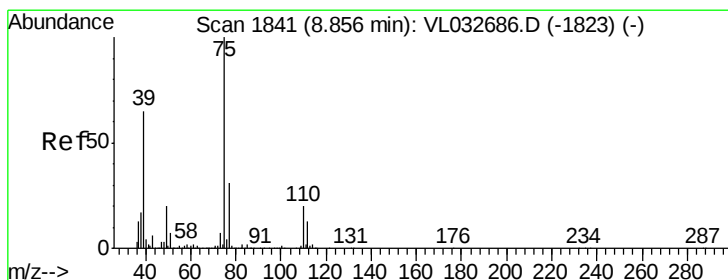
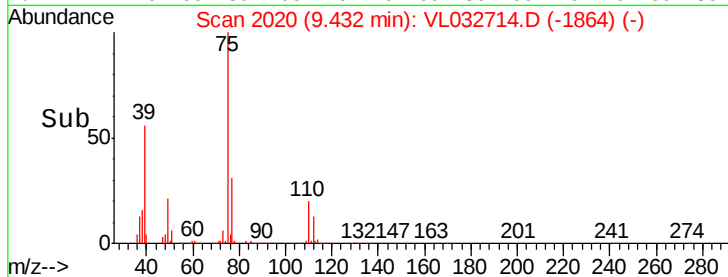
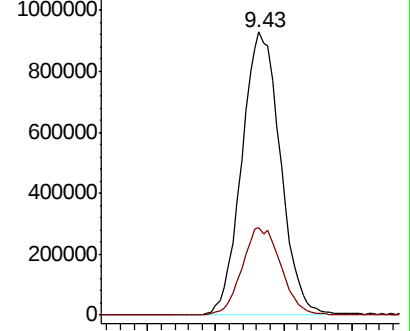
MMDadoda

11/12/2018 12:30:01 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: 12.594 ppbv

RT: 8.85 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

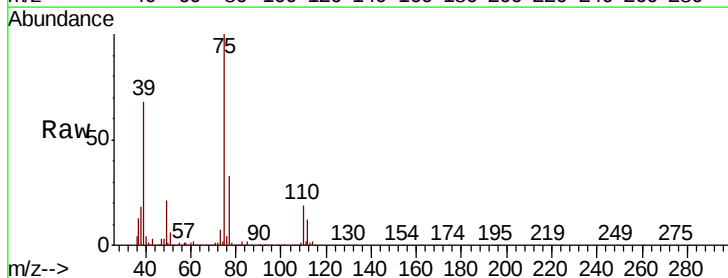
Tgt Ion: 75 Resp: 2205305

Ion Ratio Lower Upper

75 100

39 67.7 50.9 76.3

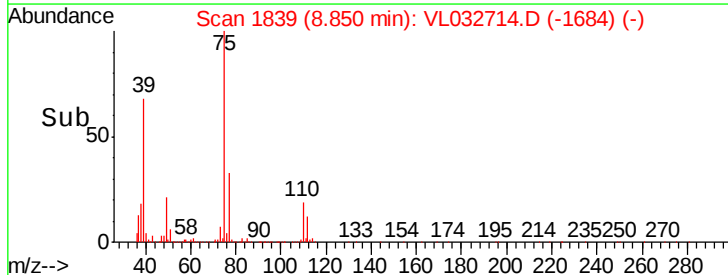
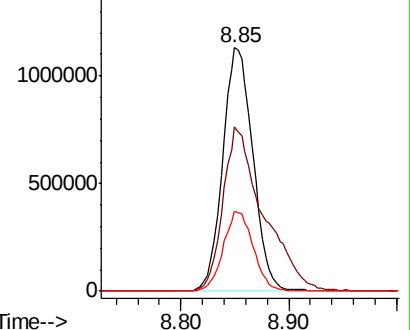
77 32.5 25.8 38.6

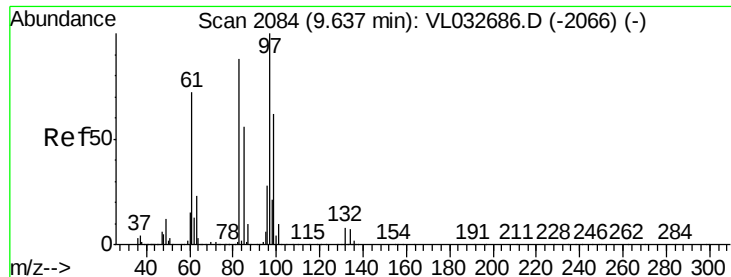


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 10.108 ppbv

RT: 9.63 min Scan# 2083

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 97 Resp: 1440970

Ion Ratio Lower Upper

97 100

83 87.8 73.5 110.3

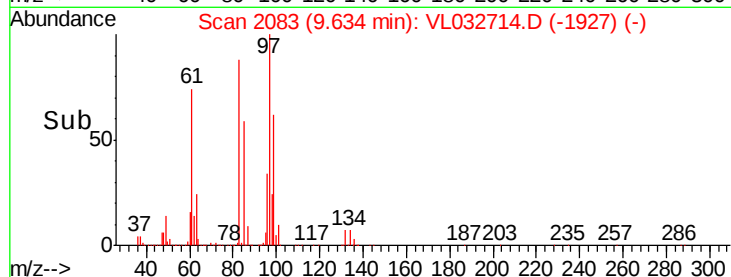
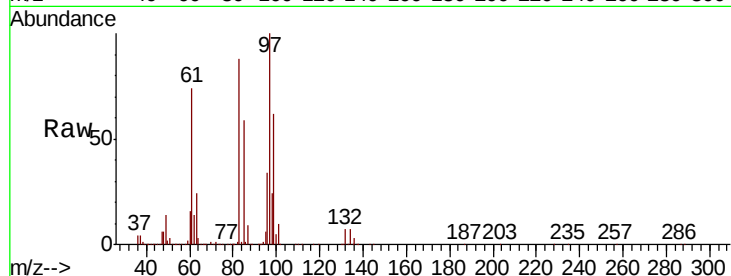
85 59.1 45.8 68.6

99 62.4 50.6 75.8

Manual Integrations
APPROVED

MMDadoda

11/12/2018 12:30:01 PM



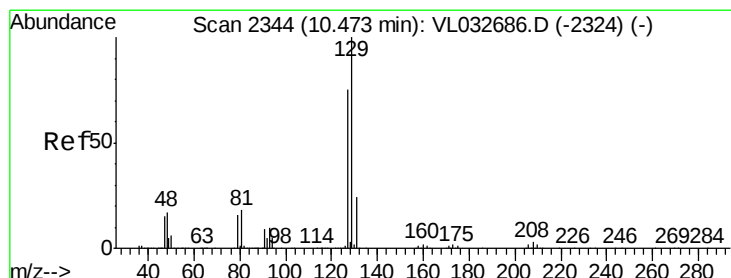
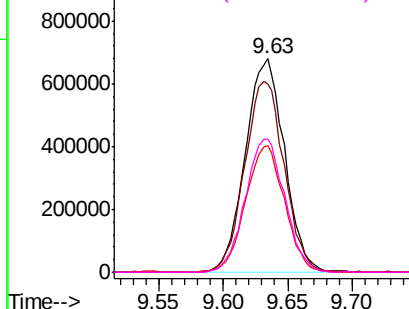
Abundance

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: 10.028 ppbv

RT: 10.47 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VL032714.D

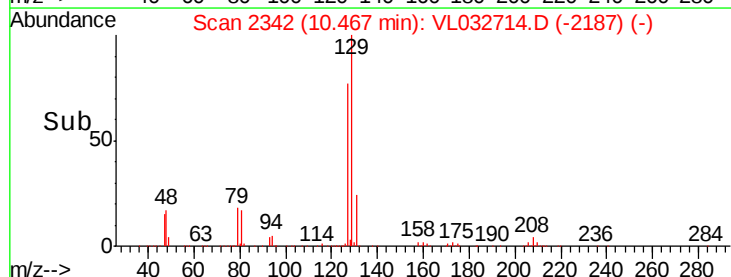
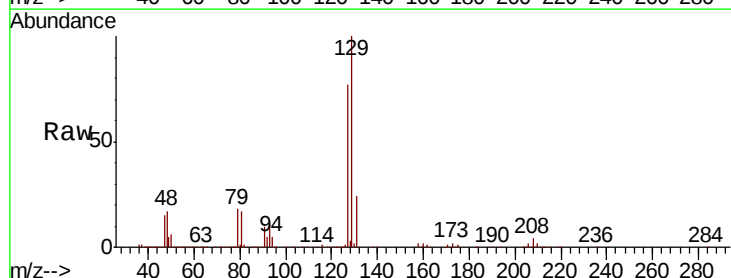
Acq: 7 Nov 2018 12:58

Tgt Ion: 129 Resp: 2382846

Ion Ratio Lower Upper

129 100

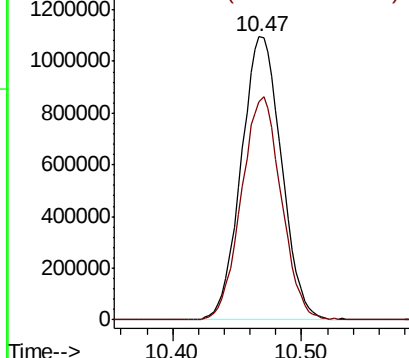
127 78.3 39.1 117.5

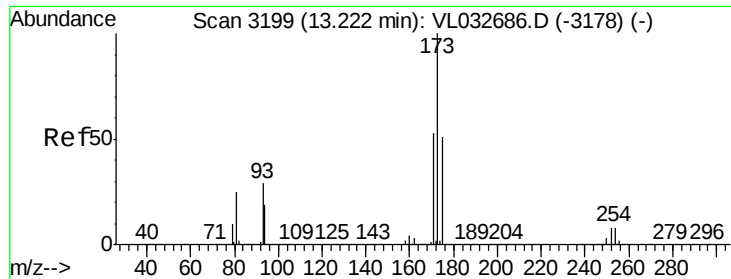


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





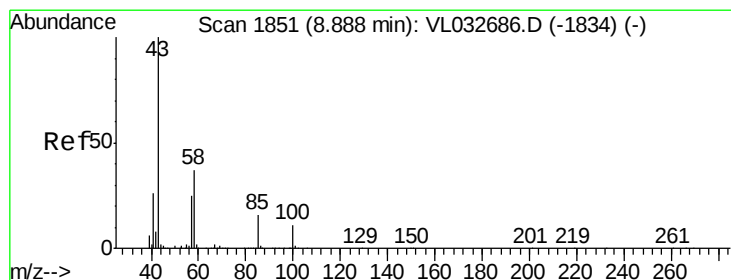
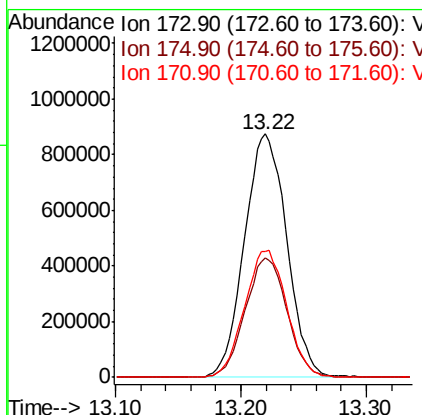
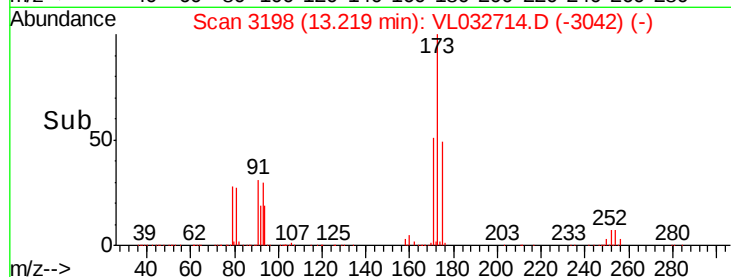
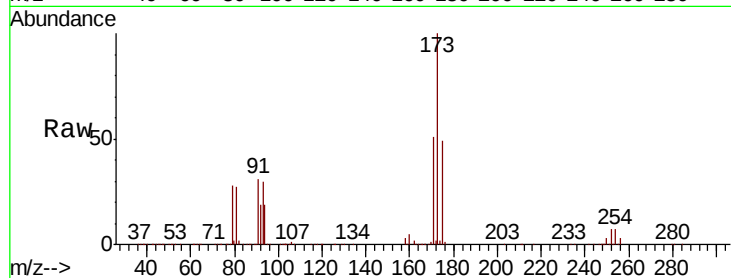
#49
Bromoform
Concen: 11.004 ppbv
RT: 13.22 min Scan# 3198
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion:173 Resp: 2054685
Ion Ratio Lower Upper
173 100
175 48.7 39.0 58.4
171 51.7 42.2 63.2

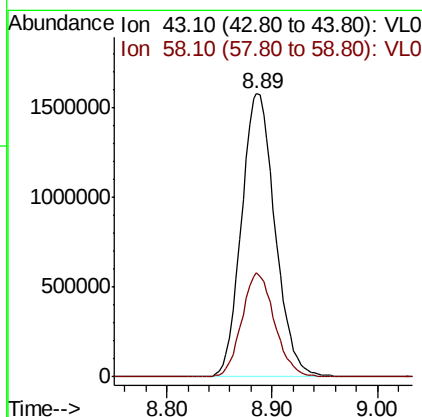
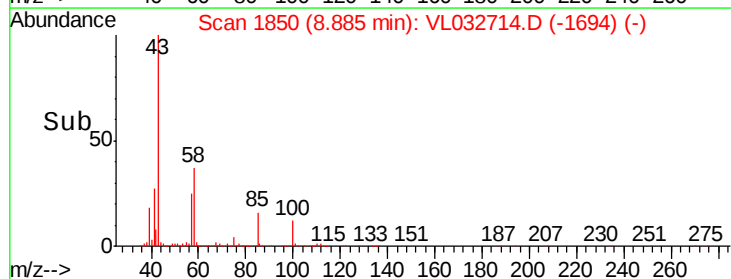
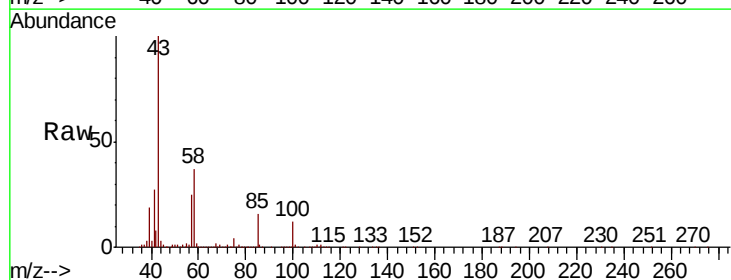
Manual Integrations
APPROVED

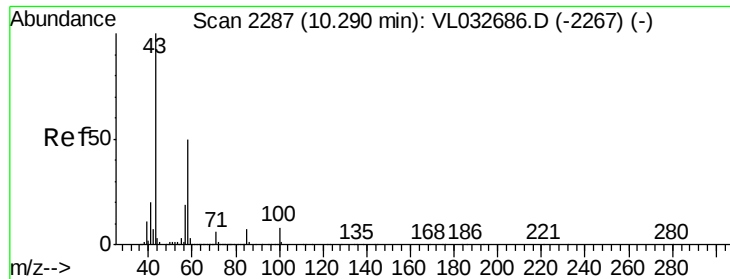
MMDadoda
11/12/2018 12:30:01 PM



#50
4-Methyl-2-Pentanone
Concen: 11.444 ppbv
RT: 8.89 min Scan# 1850
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 43 Resp: 3496756
Ion Ratio Lower Upper
43 100
58 35.9 29.7 44.5





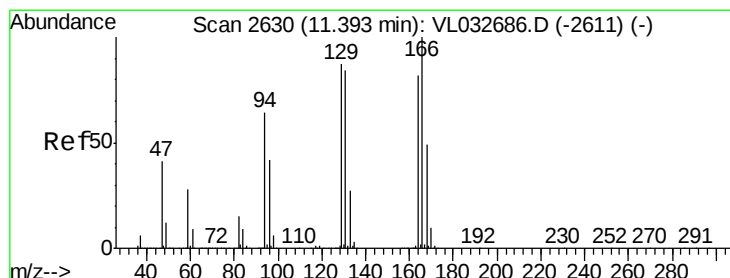
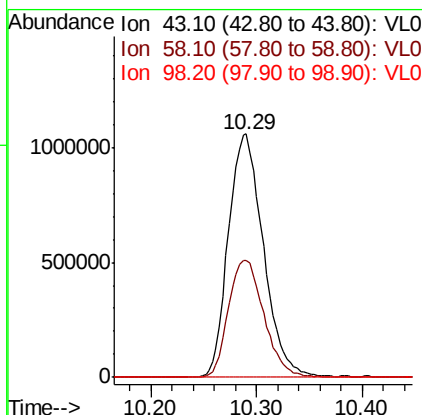
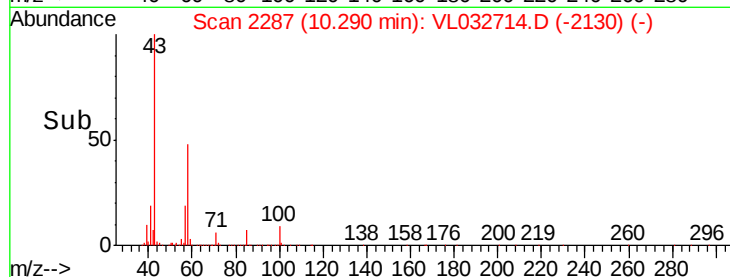
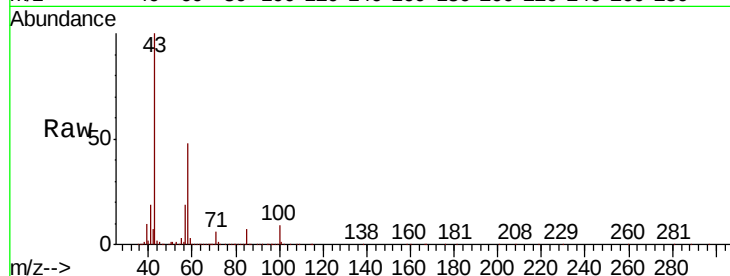
#51
2-Hexanone
Concen: 10.751 ppbv
RT: 10.29 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.9	40.4	60.6
98	0.4	0.4	0.6

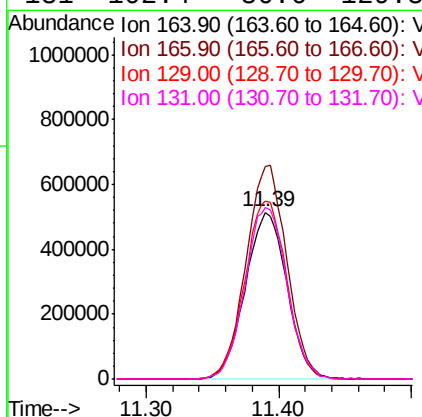
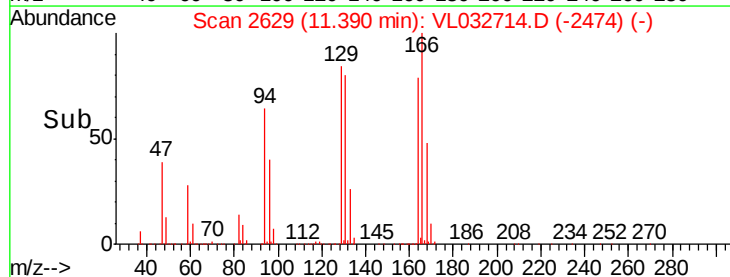
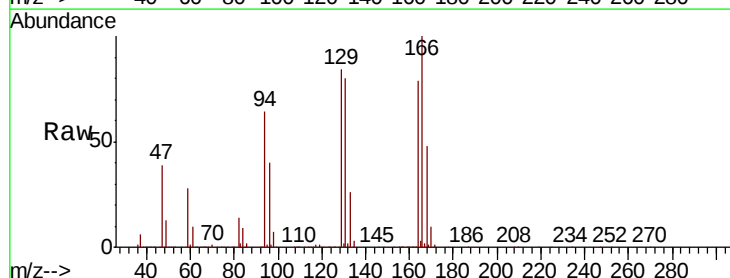
Manual Integrations
APPROVED

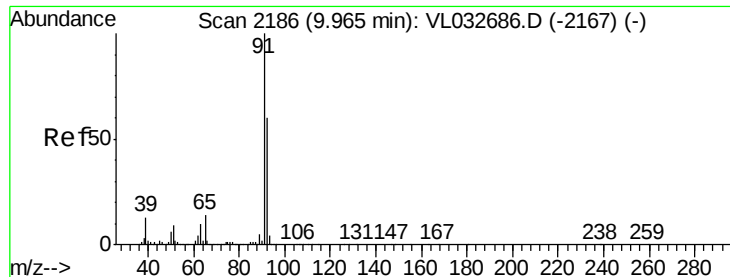
MMDadoda
11/12/2018 12:30:01 PM



#52
Tetrachloroethene
Concen: 10.274 ppbv
RT: 11.39 min Scan# 2629
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.1	100.5	150.7
129	106.6	90.0	135.0
131	102.4	86.6	129.8





#53

Toluene

Concen: 10.588 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 91 Resp: 3791810

Ion Ratio Lower Upper

91 100

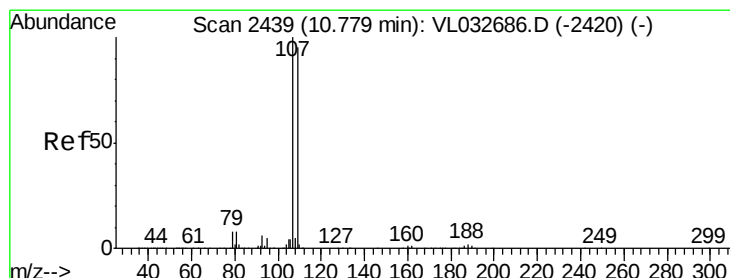
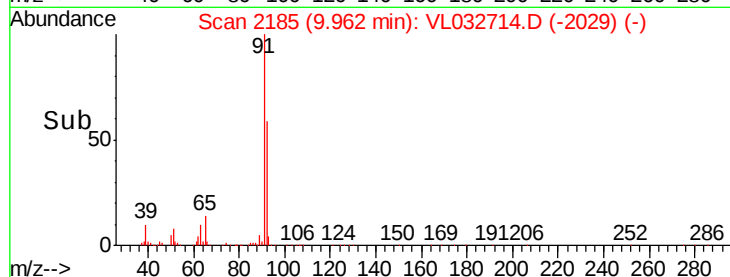
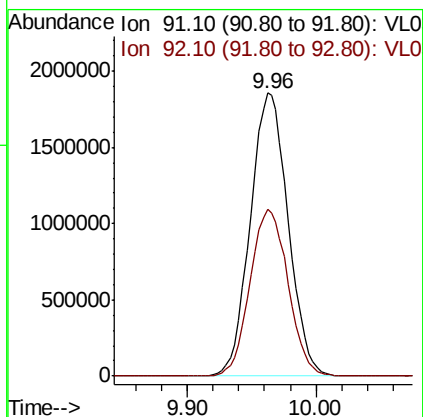
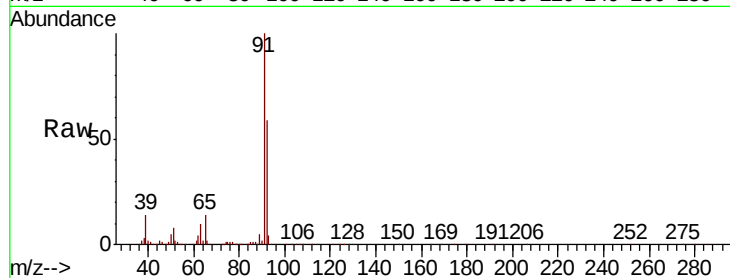
92 59.4 48.4 72.6

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:30:01 PM



#54

1,2-Dibromoethane

Concen: 10.582 ppbv

RT: 10.78 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VL032714.D

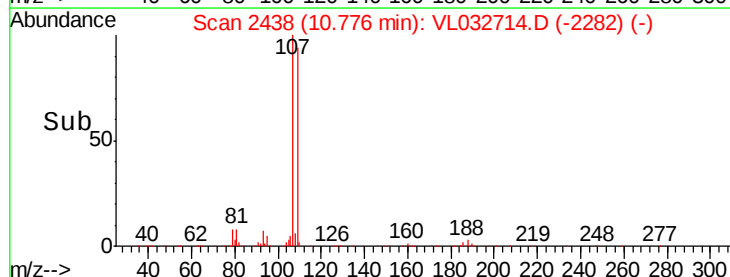
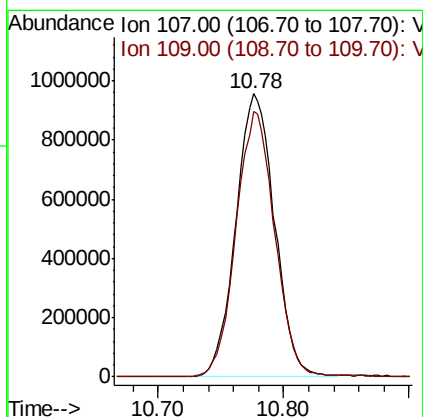
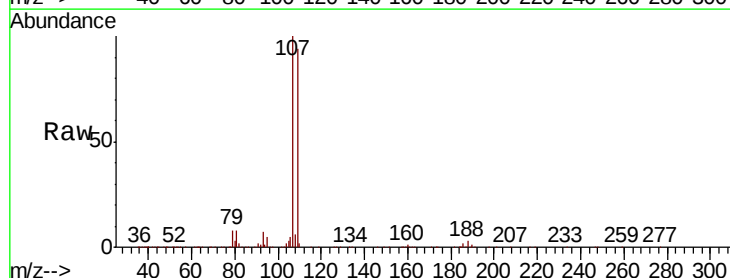
Acq: 7 Nov 2018 12:58

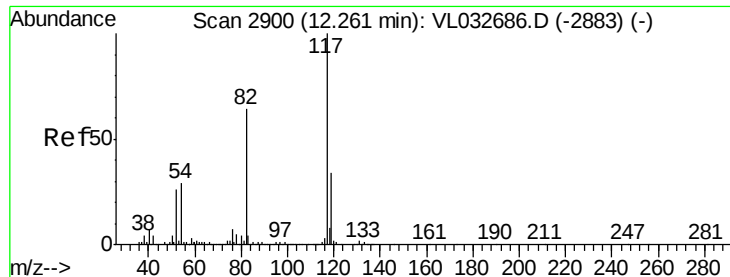
Tgt Ion: 107 Resp: 2050185

Ion Ratio Lower Upper

107 100

109 93.8 75.3 112.9





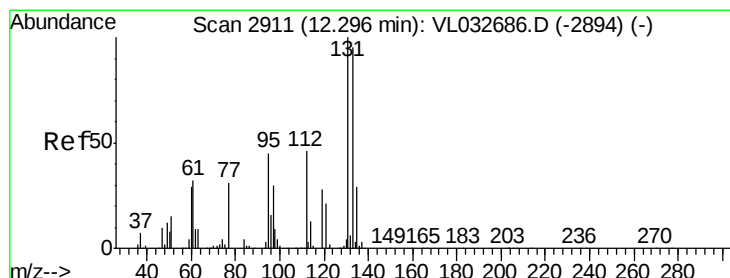
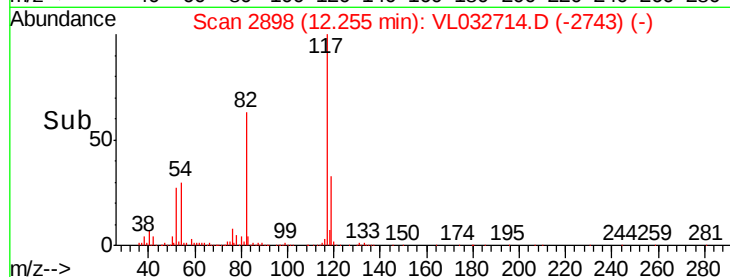
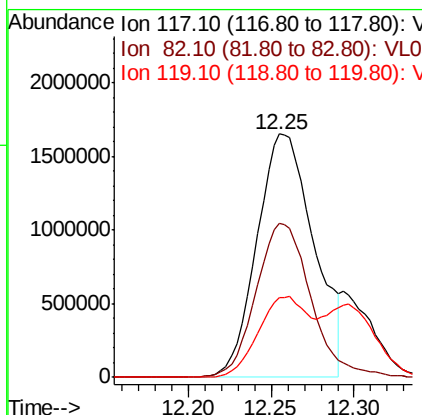
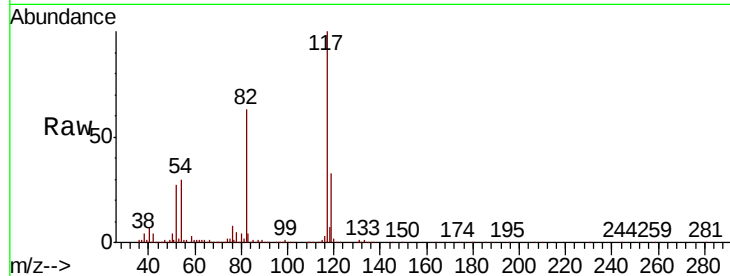
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.0	52.7	79.1
119	31.9	26.7	40.1

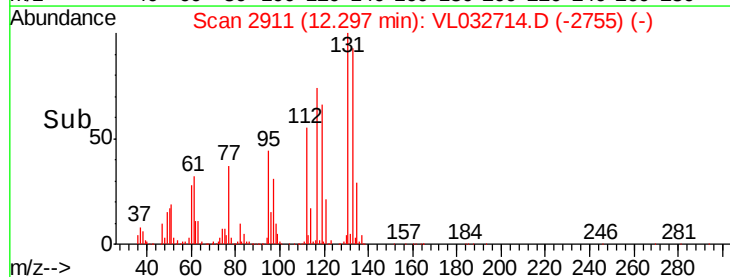
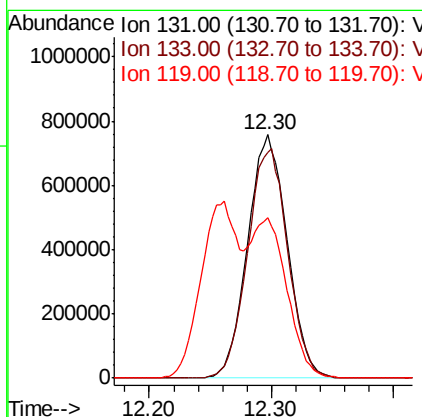
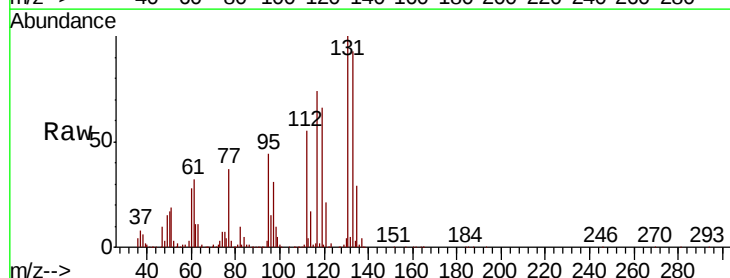
Manual Integrations
APPROVED

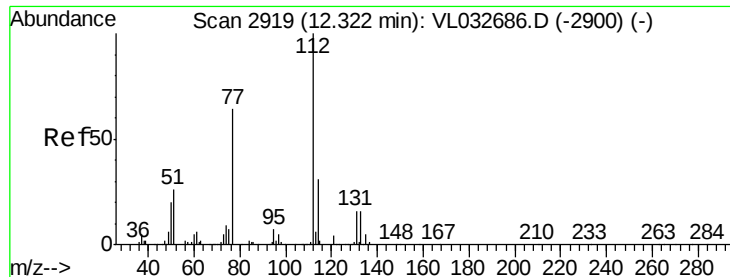
MMDadoda
11/12/2018 12:30:01 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.745 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.1	75.4	113.2
119	62.3	49.1	73.7





#57

Chlorobenzene

Concen: 9.669 ppbv

RT: 12.32 min Scan# 2918

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

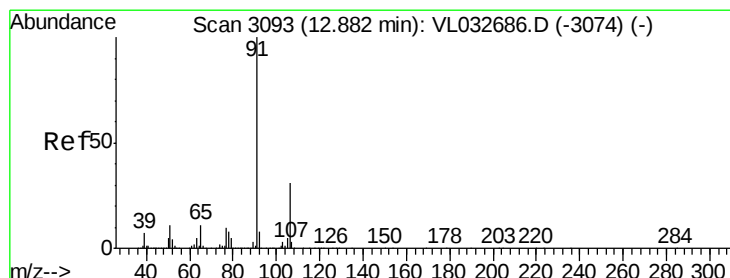
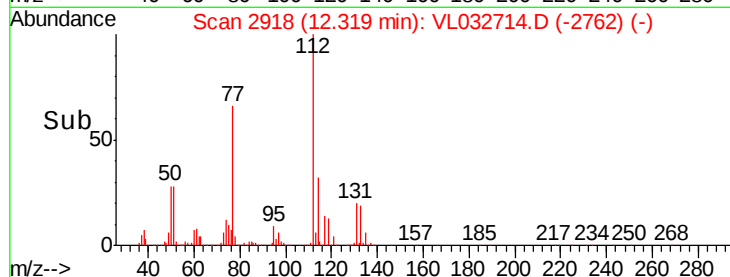
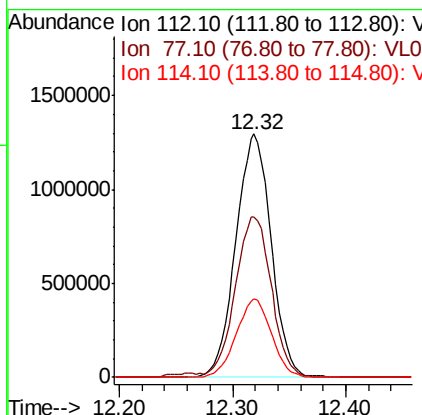
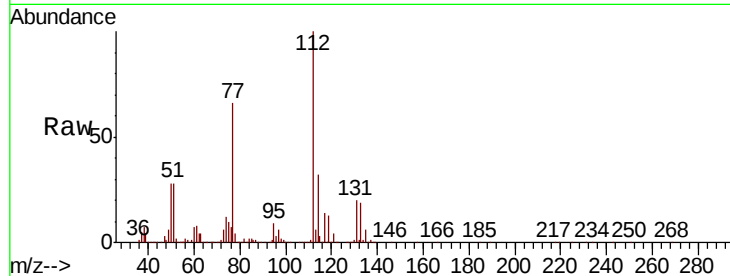
ClientSampleId :

VL1107ABS01

Tot Ion:	112	Resp:	2822541
Ion Ratio	Lower	Upper	
112	100		
77	65.8	56.8	85.2
114	32.3	30.3	37.1

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:30:01 PM



#58

Ethyl Benzene

Concen: 11.046 ppbv

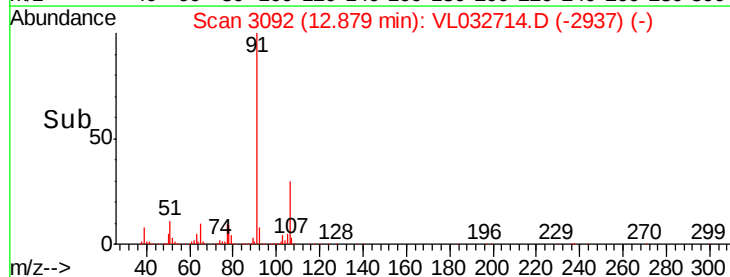
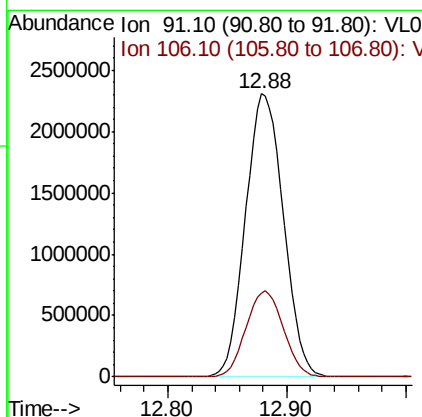
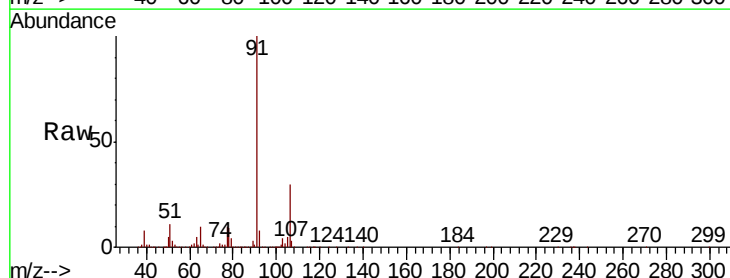
RT: 12.88 min Scan# 3092

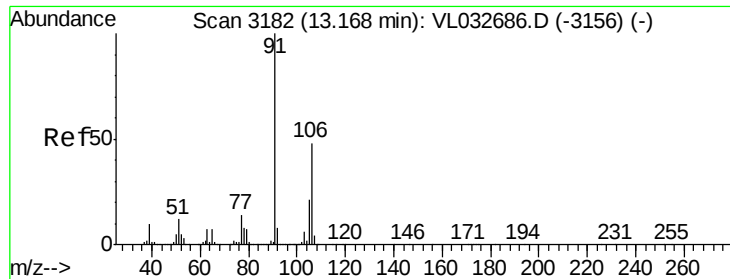
Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion:	91	Resp:	5093638
Ion Ratio	Lower	Upper	
91	100		
106	29.7	24.2	36.2





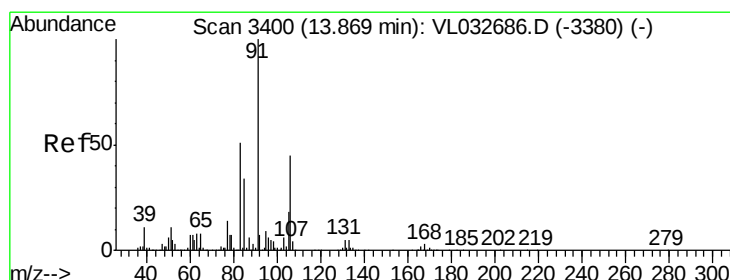
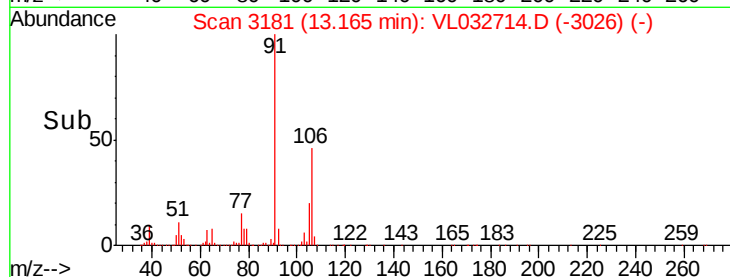
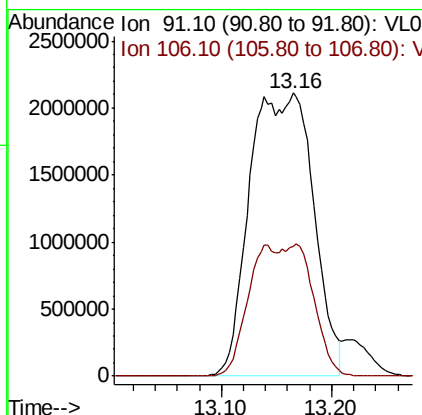
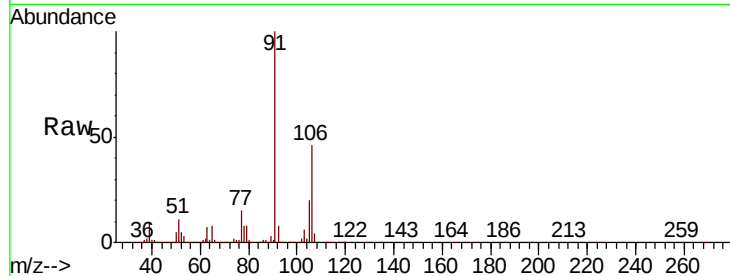
#59
m/p-Xylene
Concen: 20.569 ppbv m
RT: 13.16 min Scan# 3181
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion: 91 Resp: 8446216
Ion Ratio Lower Upper
91 100
106 45.9 35.9 53.9

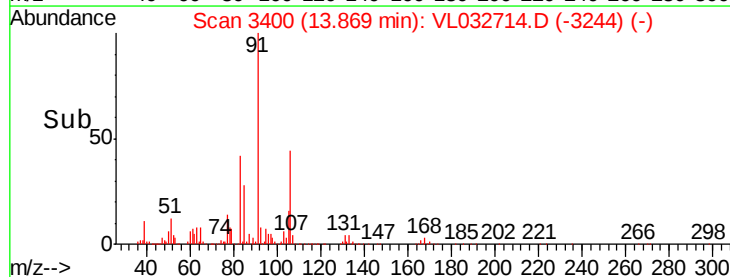
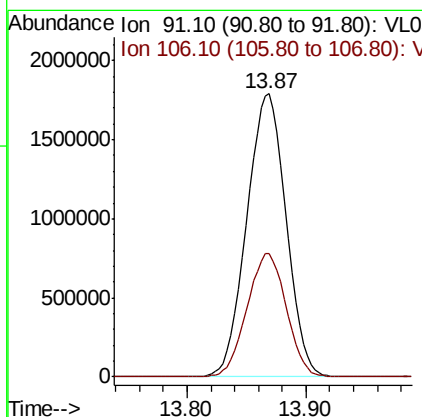
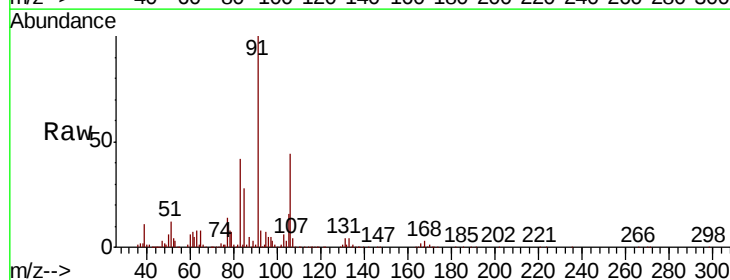
Manual Integrations
APPROVED

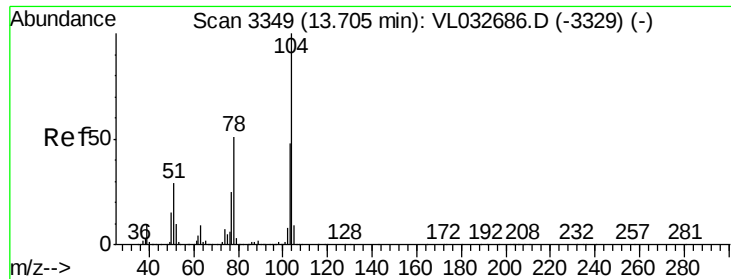
MMDadoda
11/12/2018 12:30:01 PM



#60
o-Xylene
Concen: 10.334 ppbv
RT: 13.87 min Scan# 3400
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 91 Resp: 4093269
Ion Ratio Lower Upper
91 100
106 43.5 22.1 66.1





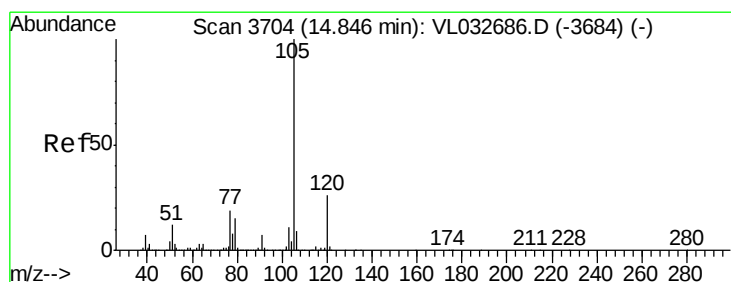
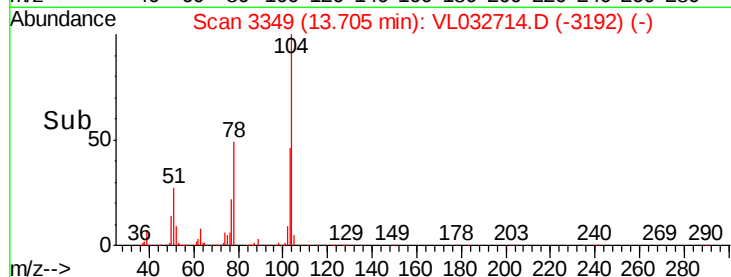
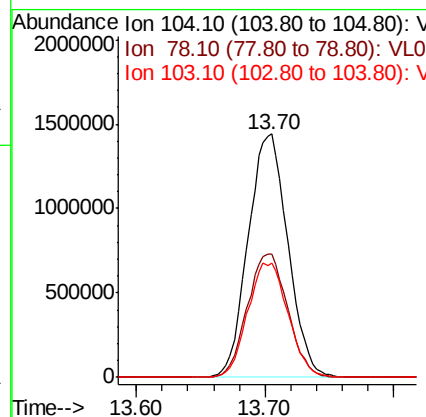
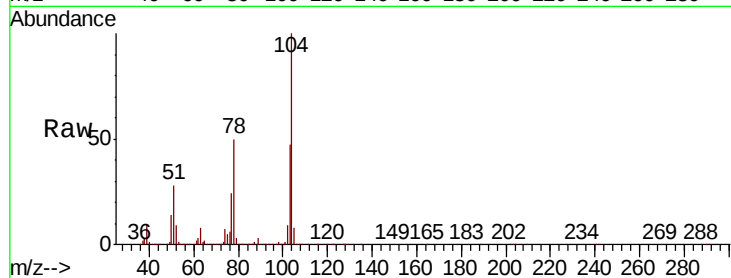
#61
Stvrene
Concen: 11.664 ppbv
RT: 13.70 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion:104 Resp: 3097826
Ion Ratio Lower Upper
104 100
78 51.7 42.8 64.2
103 47.8 37.4 56.0

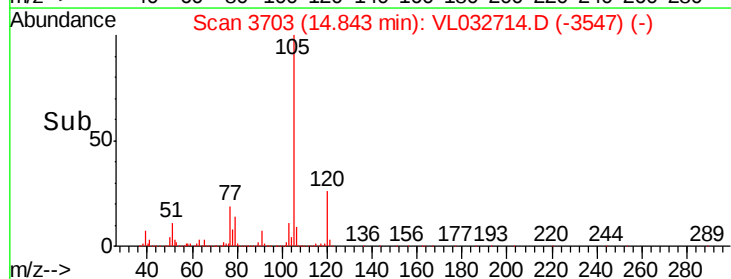
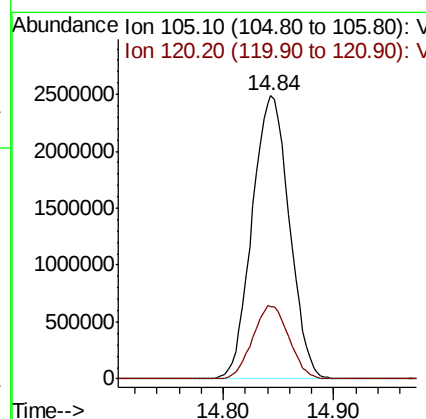
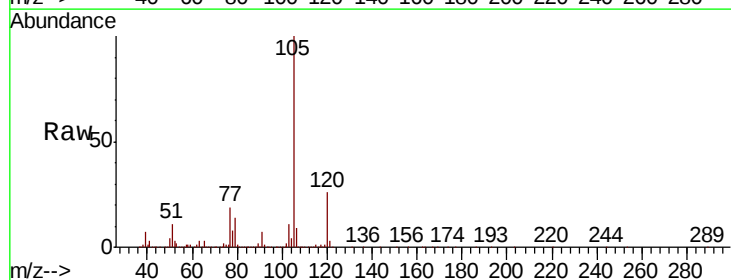
Manual Integrations
APPROVED

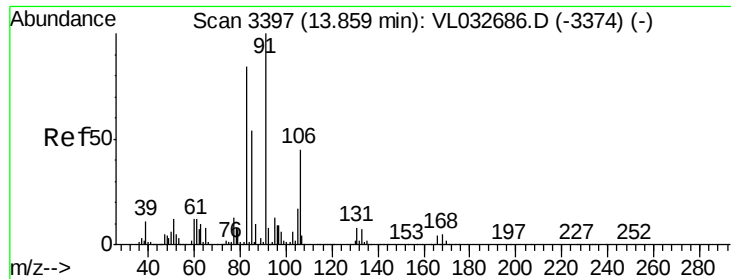
MMDadoda
11/12/2018 12:30:01 PM



#62
Isopropylbenzene
Concen: 10.359 ppbv
RT: 14.84 min Scan# 3703
Delta R.T. 0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion:105 Resp: 5807337
Ion Ratio Lower Upper
105 100
120 25.3 20.5 30.7





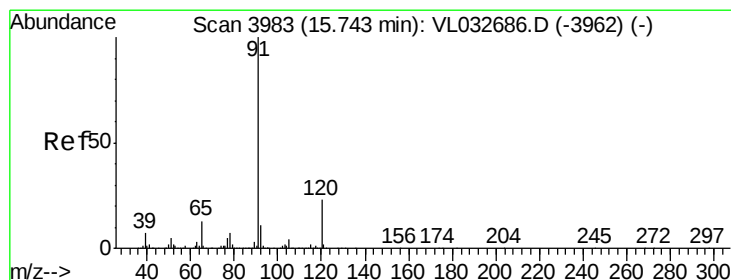
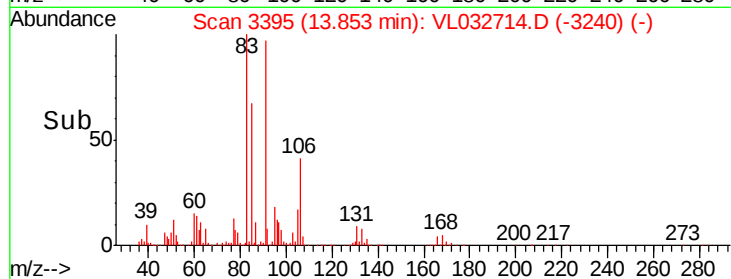
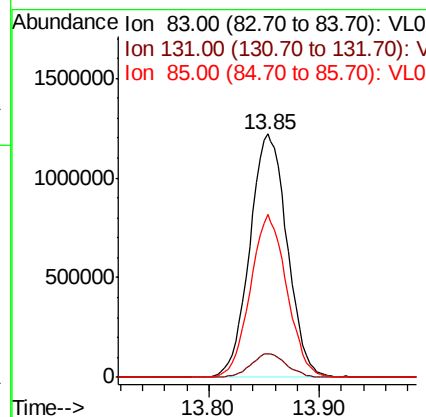
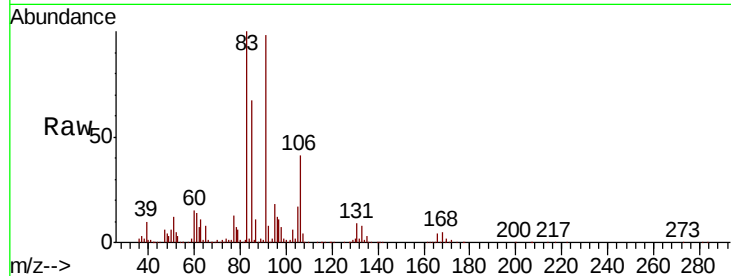
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.205 ppbv
 RT: 13.85 min Scan# 3395
 Delta R.T. -0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Tot Ion	83	Resp	2856694
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.3	12.9
85	65.5	32.3	96.9

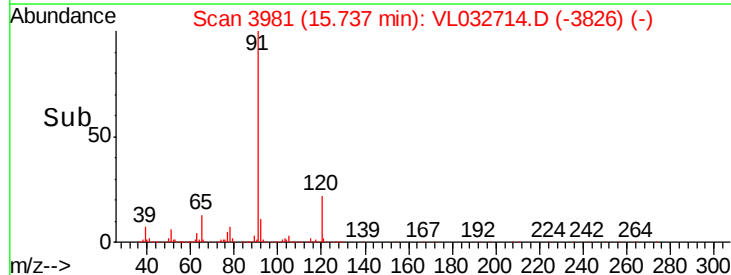
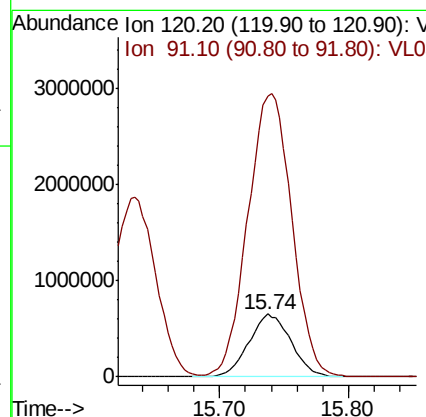
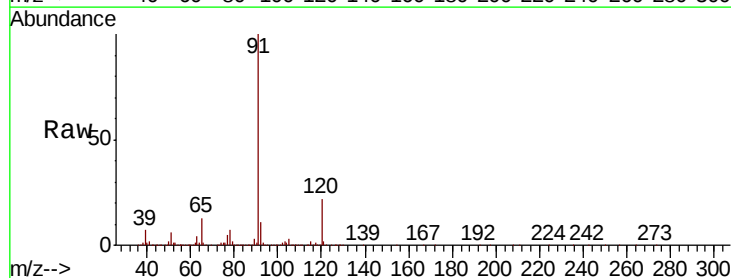
Manual Integrations
 APPROVED

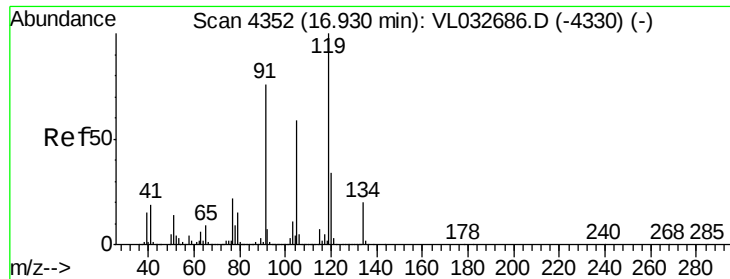
MMDadoda
 11/12/2018 12:30:01 PM



#64
 n-propylbenzene
 Concen: 10.567 ppbv
 RT: 15.74 min Scan# 3981
 Delta R.T. -0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion	120	Resp	1472267
Ion Ratio	Lower	Upper	
120	100		
91	476.0	390.2	585.2





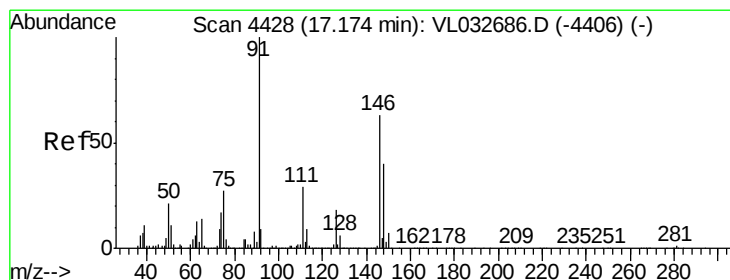
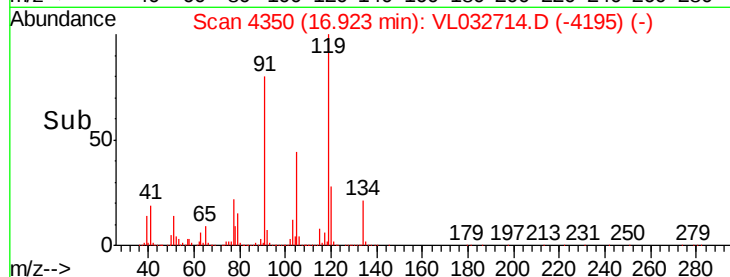
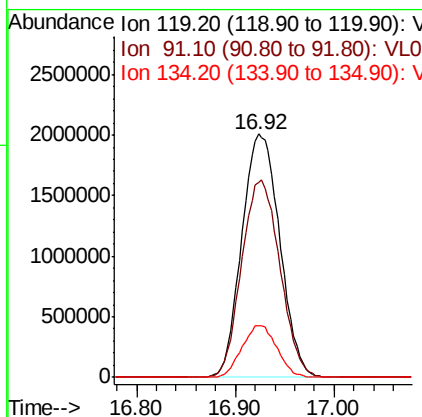
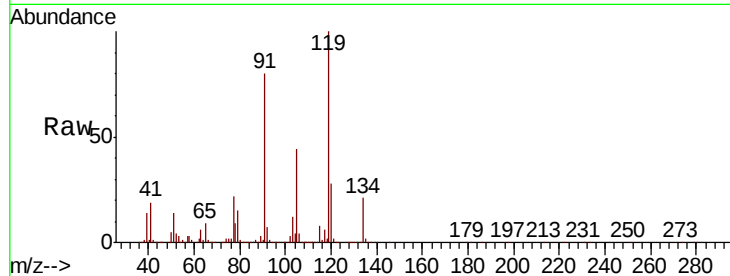
#65
tert-Butylbenzene
Concen: 11.193 ppbv
RT: 16.92 min Scan# 4350
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Tot Ion:119 Resp: 5343738
Ion Ratio Lower Upper
119 100
91 81.9 67.8 101.8
134 19.8 15.8 23.8

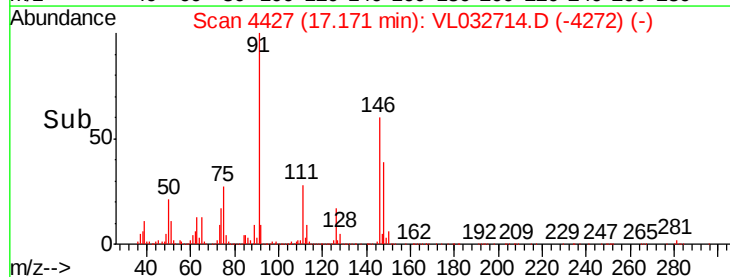
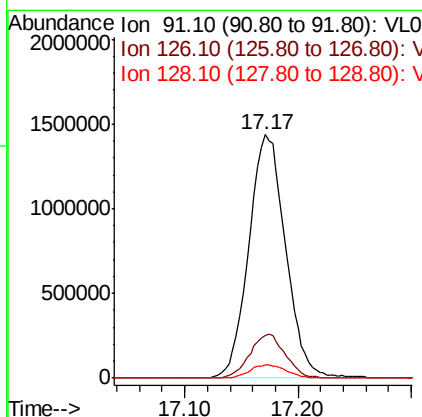
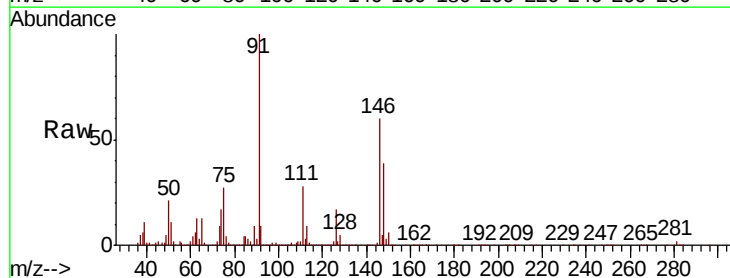
Manual Integrations
APPROVED

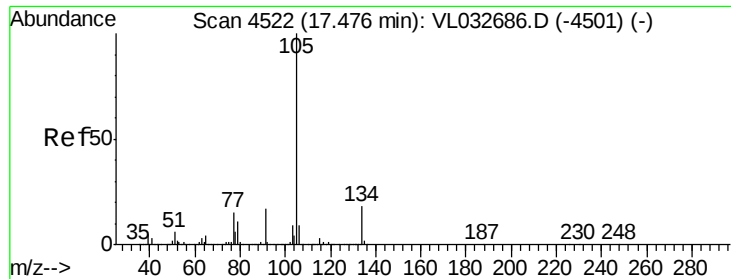
MMDadoda
11/12/2018 12:30:01 PM



#66
Benzyl Chloride
Concen: 13.152 ppbv
RT: 17.17 min Scan# 4427
Delta R.T. -0.00 min
Lab File: VL032714.D
Acq: 7 Nov 2018 12:58

Tgt Ion: 91 Resp: 3241967
Ion Ratio Lower Upper
91 100
126 17.6 13.9 20.9
128 5.6 4.3 6.5





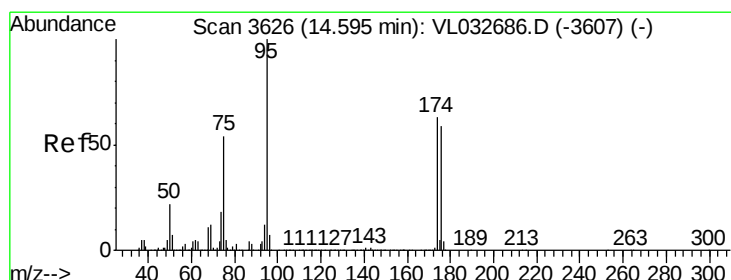
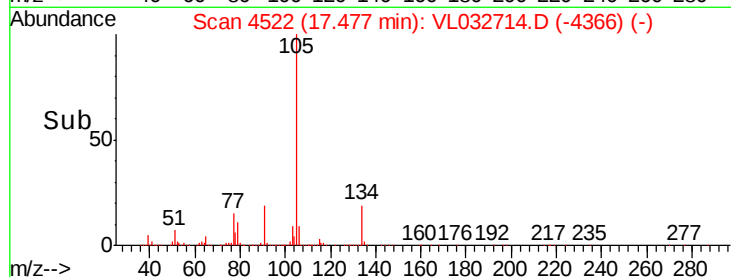
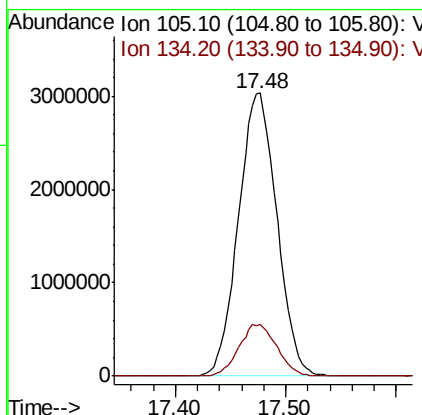
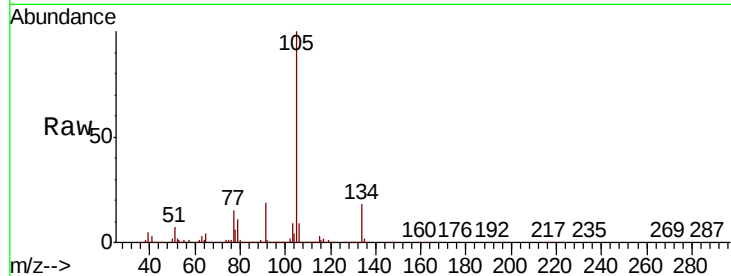
#67
 sec-Butylbenzene
 Concen: 10.758 ppbv
 RT: 17.48 min Scan# 4522
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Tot Ion: 105 Resp: 7304805
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.2 21.2

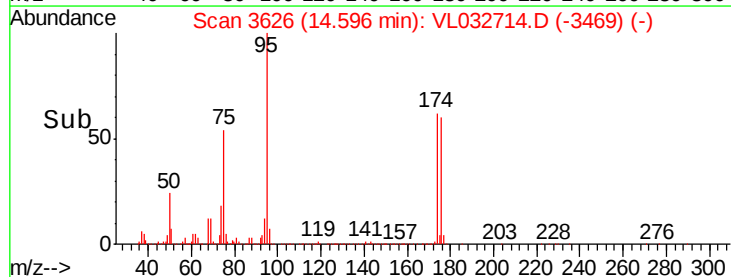
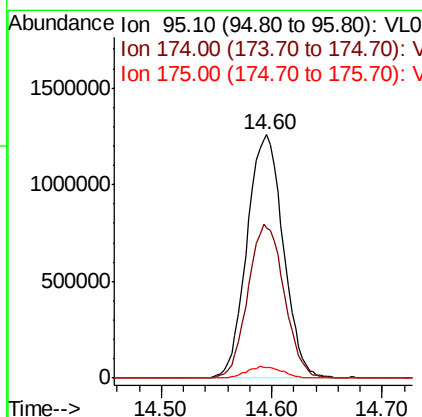
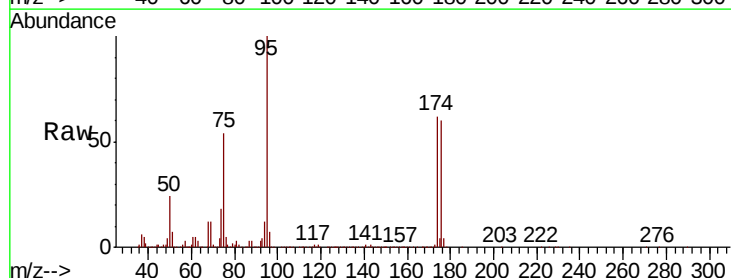
Manual Integrations
 APPROVED

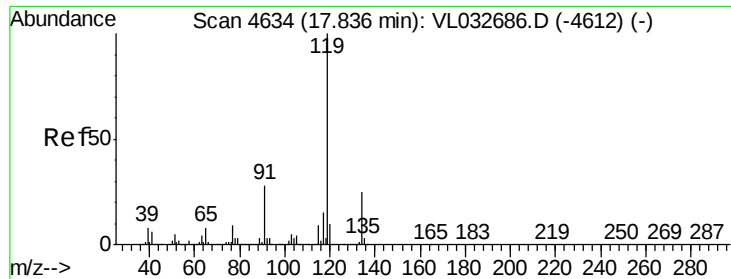
MMDadoda
 11/12/2018 12:30:01 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.676 ppbv
 RT: 14.60 min Scan# 3626
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion: 95 Resp: 2859677
 Ion Ratio Lower Upper
 95 100
 174 63.7 46.0 69.0
 175 4.7 3.4 5.0





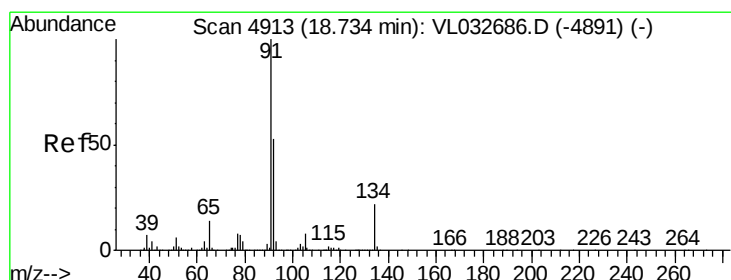
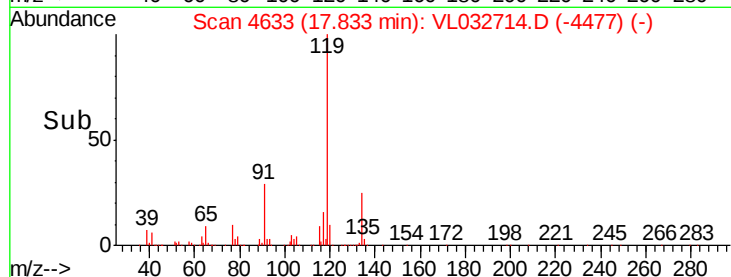
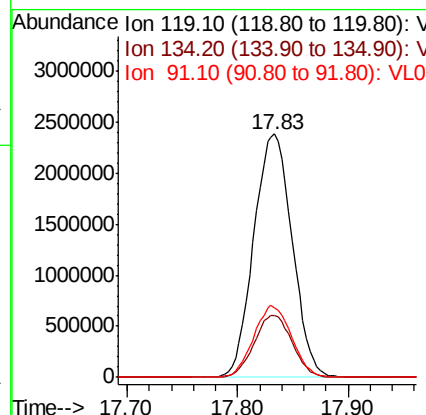
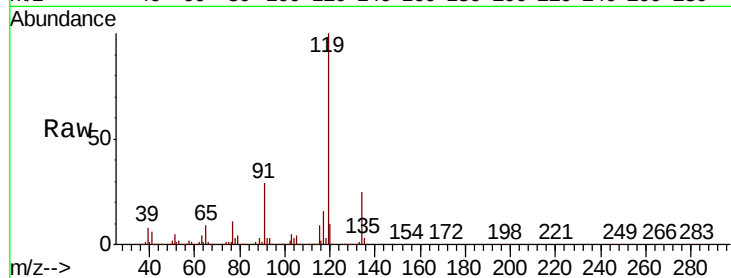
#69
 p-Isopropyltoluene
 Concen: 10.691 ppbv
 RT: 17.83 min Scan# 4633
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	29.1	24.0	36.0

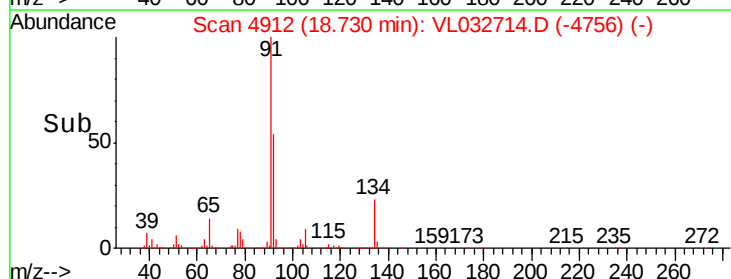
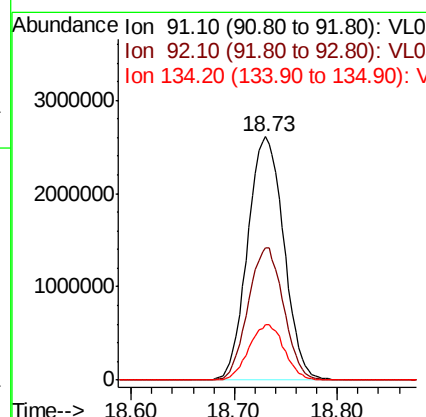
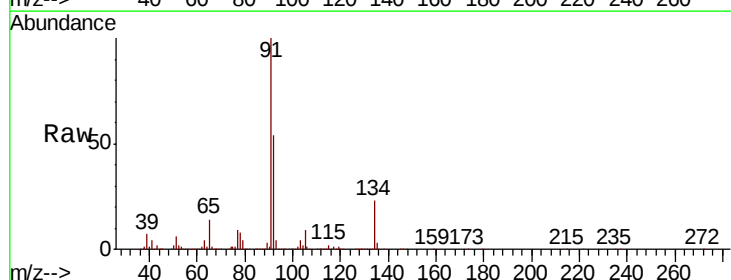
Manual Integrations
 APPROVED

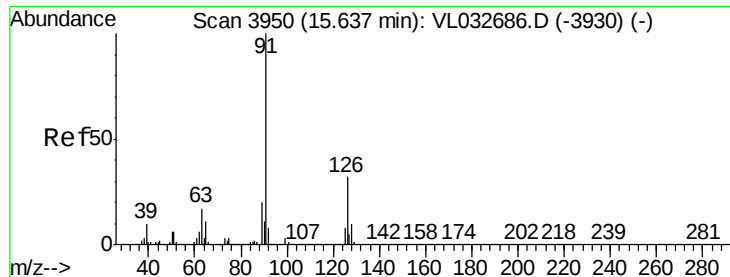
MMDadoda
 11/12/2018 12:30:01 PM



#70
 n-Butylbenzene
 Concen: 11.459 ppbv
 RT: 18.73 min Scan# 4912
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	43.0	64.4
134	22.3	17.0	25.6





#71

2-Chlorotoluene

Concen: 10.777 ppbv

RT: 15.63 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion: 91 Resp: 4293633

Ion Ratio Lower Upper

91 100

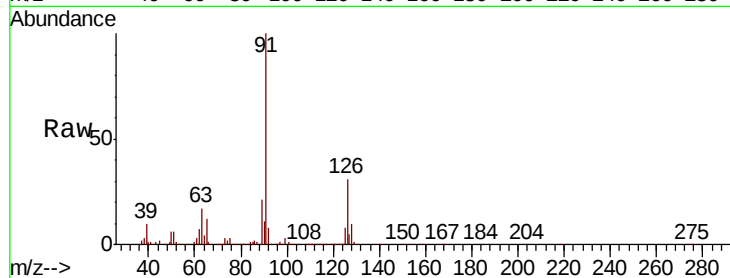
126 30.5 11.8 47.4

Manual Integrations

APPROVED

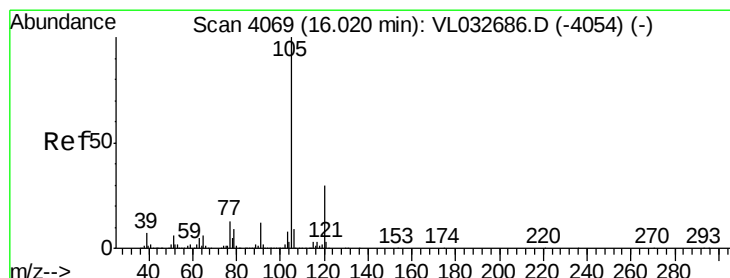
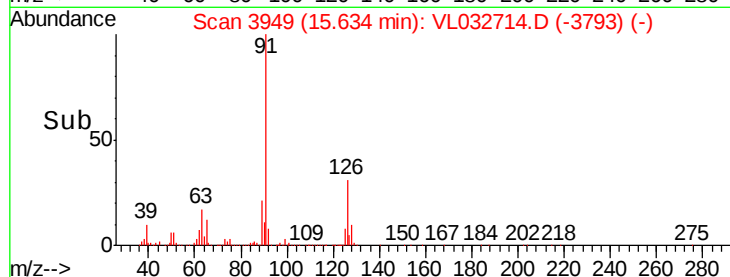
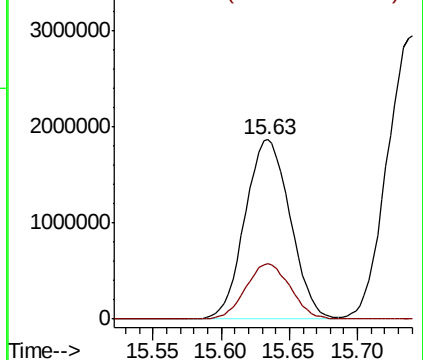
MMDadoda

11/12/2018 12:30:01 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.106 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion:105 Resp: 4685300

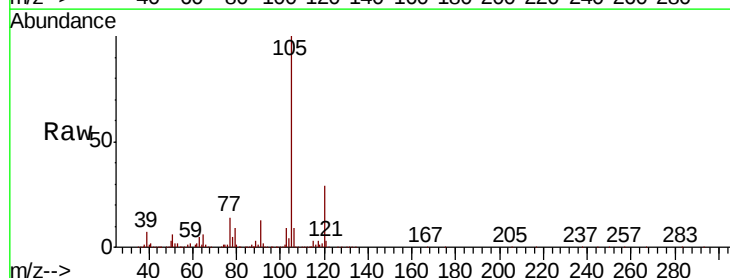
Ion Ratio Lower Upper

105 100

120 28.7 23.7 35.5

91 13.0 10.4 15.6

77 14.0 11.4 17.2

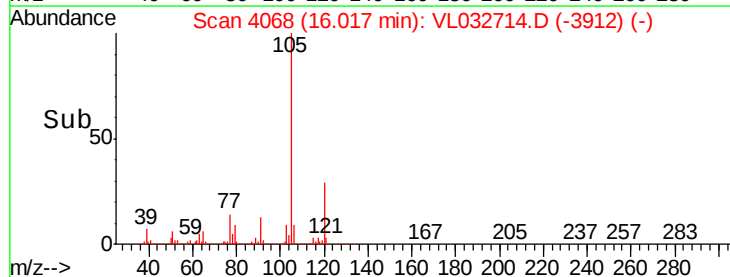
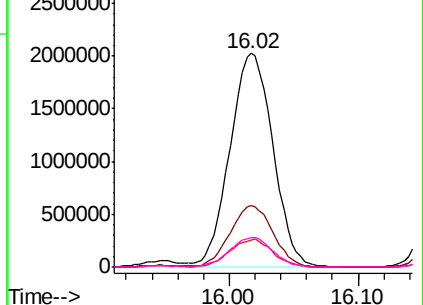


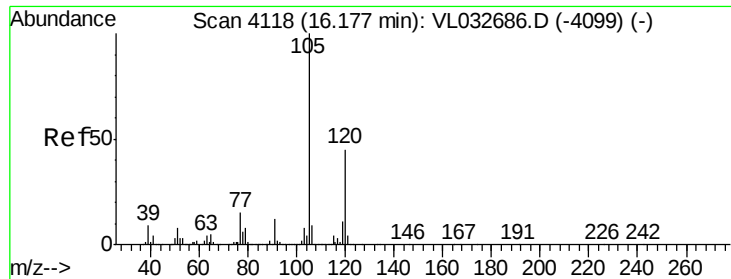
Abundance Ion 105.10 (104.80 to 105.80): V

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: 10.809 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. -0.01 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion:105 Resp: 4441375

Ion Ratio Lower Upper

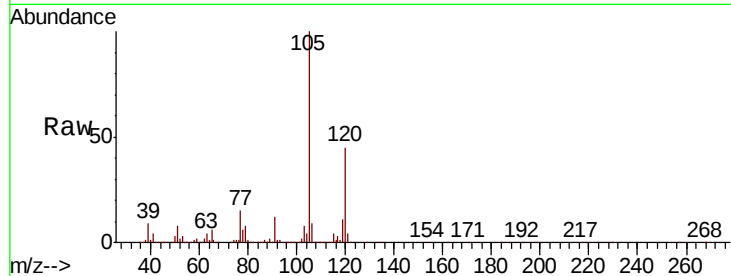
105 100

120 44.8 35.4 53.2

Manual Integrations
APPROVED

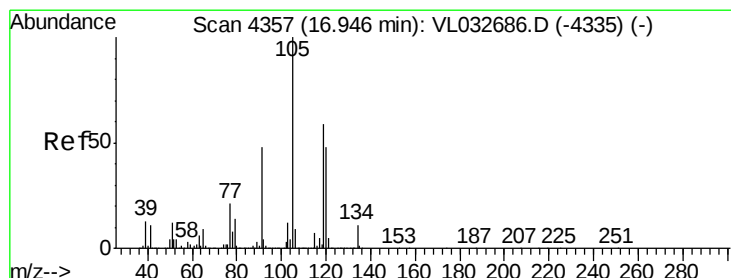
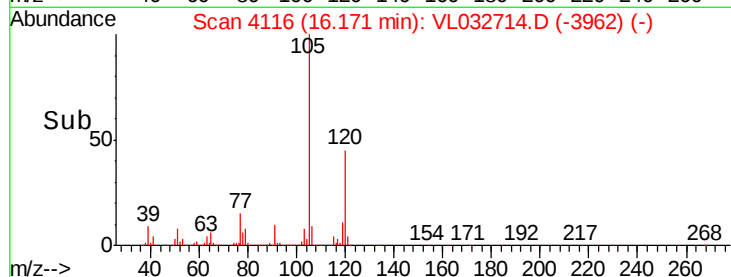
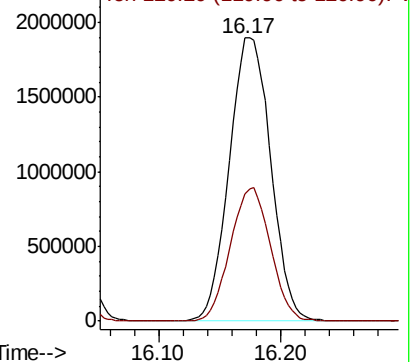
MMDadoda

11/12/2018 12:30:01 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.968 ppbv

RT: 16.94 min Scan# 4356

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion:105 Resp: 4813025

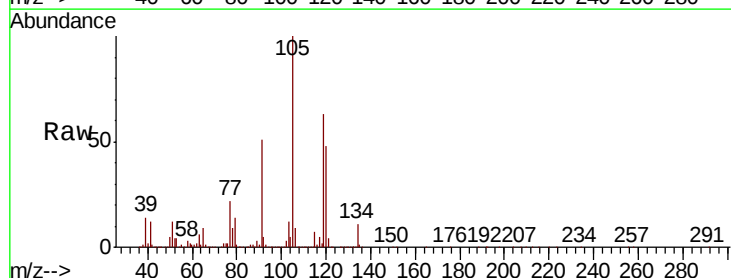
Ion Ratio Lower Upper

105 100

120 48.1 35.8 53.8

91 50.4 33.2 49.8#

77 22.1 16.2 24.4

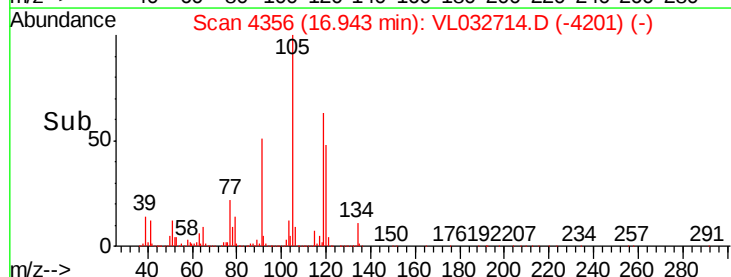
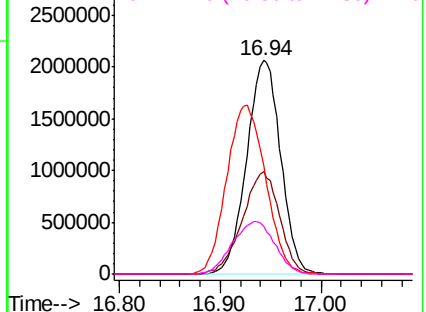


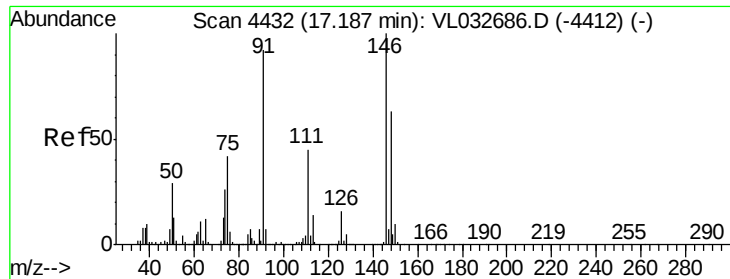
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 10.685 ppbv

RT: 17.18 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

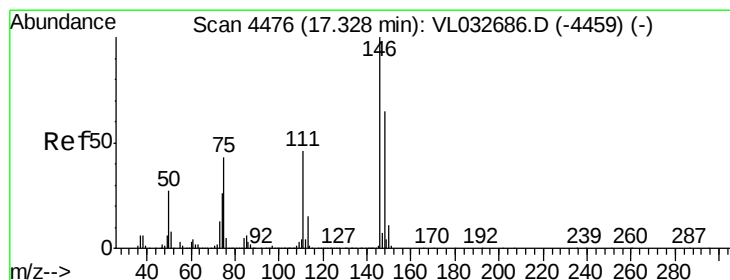
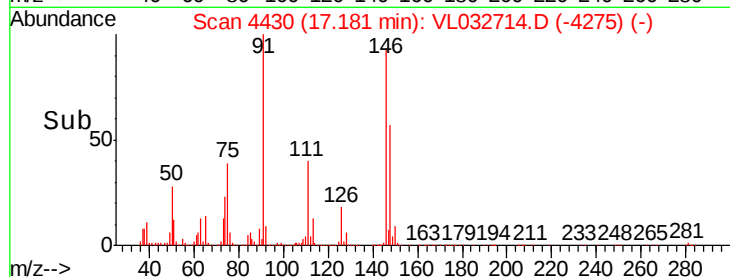
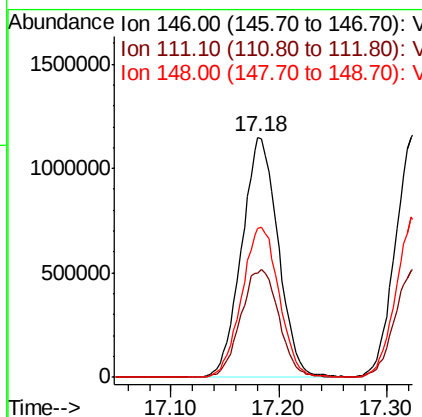
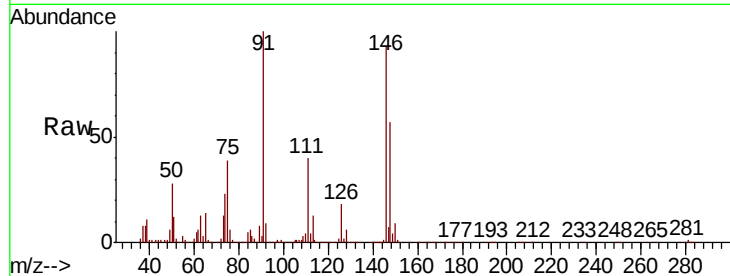
ClientSampleId :

VL1107ABS01

Tot Ion:	146	Resp:	2696117
Ion	Ratio	Lower	Upper
146	100		
111	46.8	24.4	73.2
148	64.0	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:30:01 PM



#76

1,4-Dichlorobenzene

Concen: 11.402 ppbv

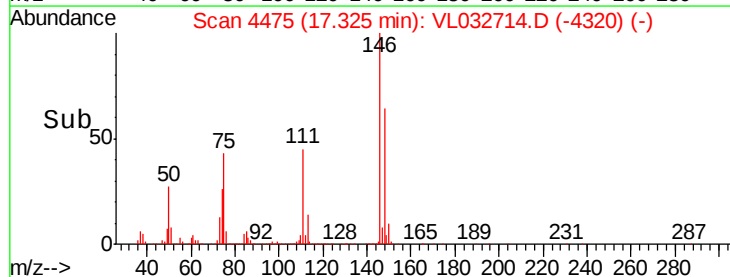
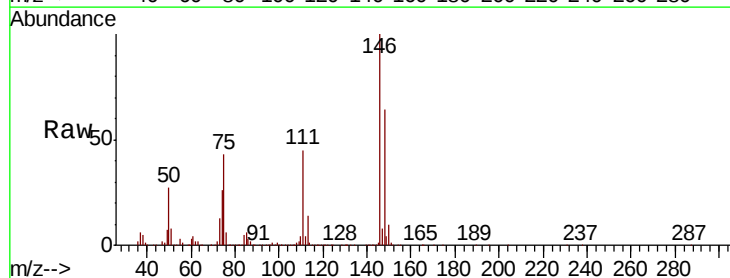
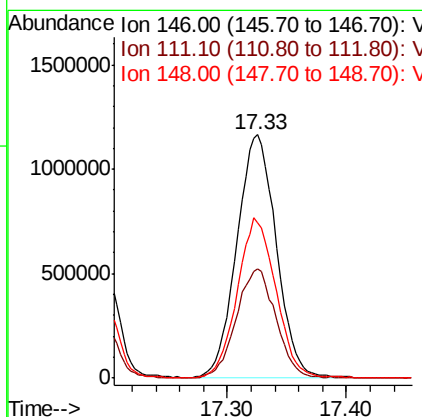
RT: 17.33 min Scan# 4475

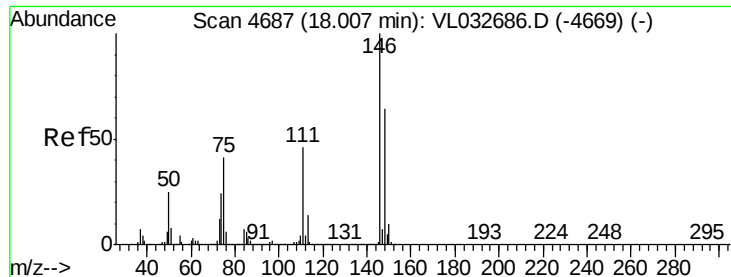
Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion:	146	Resp:	2655187
Ion	Ratio	Lower	Upper
146	100		
111	45.3	23.7	71.1
148	65.0	32.1	96.3





#77

1,2-Dichlorobenzene

Concen: 10.109 ppbv

RT: 18.00 min Scan# 4686

Delta R.T. -0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

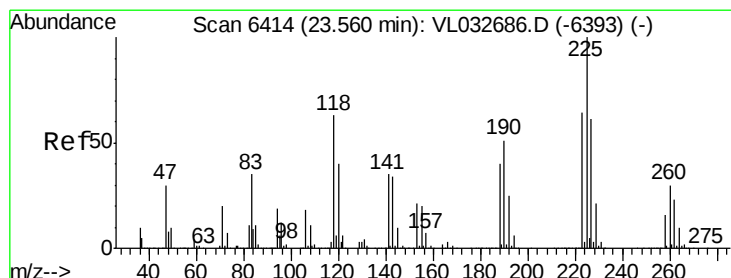
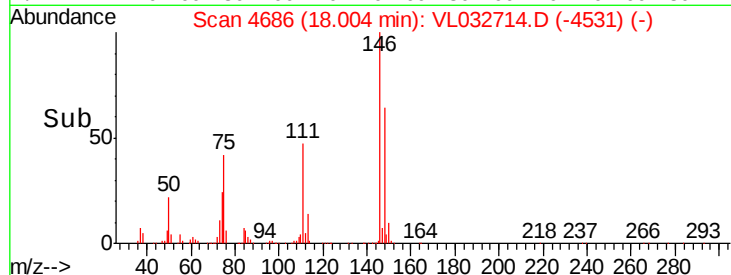
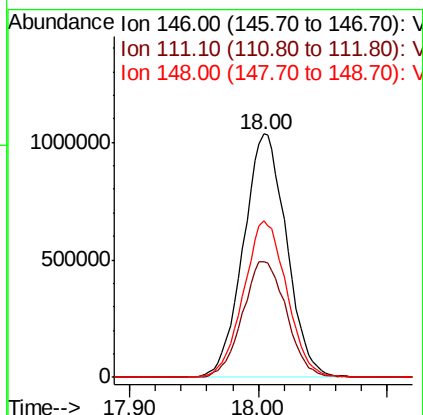
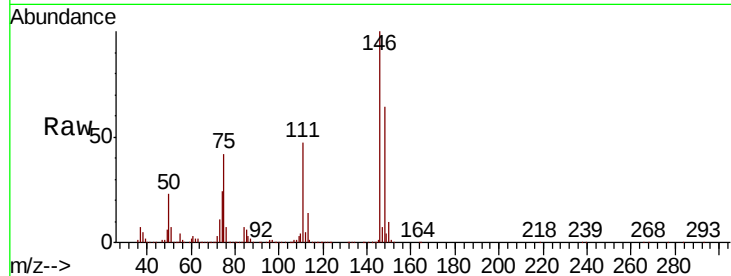
ClientSampleId :

VL1107ABS01

Tot Ion:	146	Resp:	2416666
Ion	Ratio	Lower	Upper
146	100		
111	48.3	25.3	75.8
148	64.5	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:30:01 PM



#78

Hexachloro-1,3-Butadiene

Concen: 11.340 ppbv

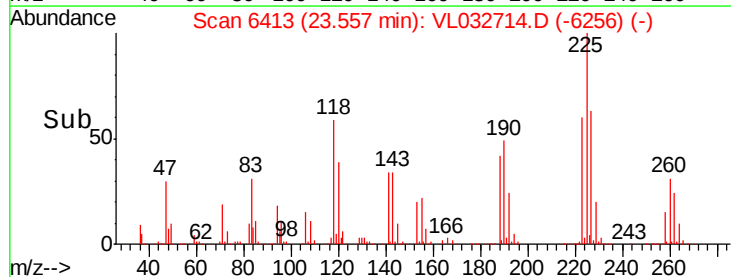
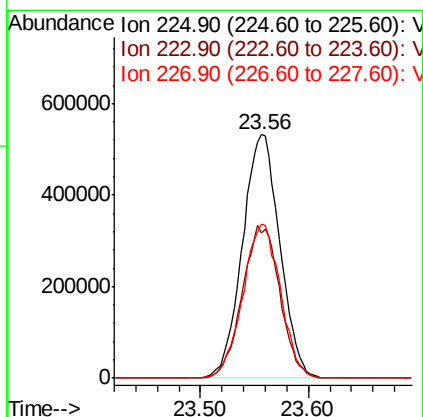
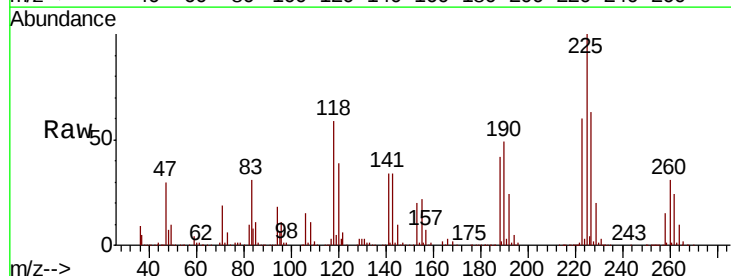
RT: 23.56 min Scan# 6413

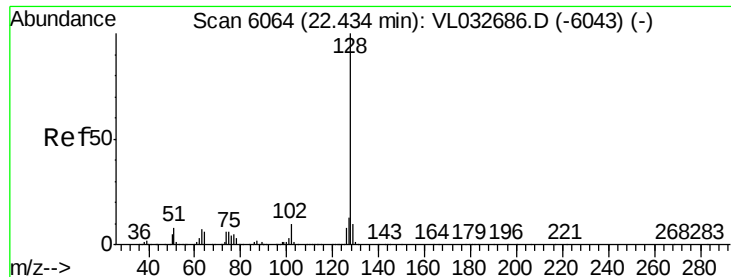
Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Tgt Ion:	225	Resp:	1280887
Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.7	76.1
227	63.5	50.7	76.1





#79

Naphthalene

Concen: 12.659 ppbv

RT: 22.43 min Scan# 6062

Delta R.T. -0.01 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABS01

Tot Ion:128 Resp: 3452760

Ion Ratio Lower Upper

128 100

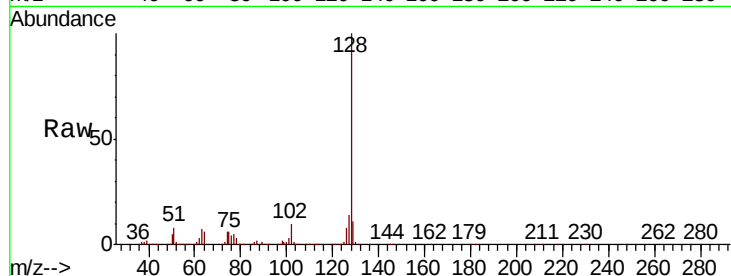
127 13.6 10.3 15.5

129 10.9 8.6 13.0

Manual Integrations
APPROVED

MMDadoda

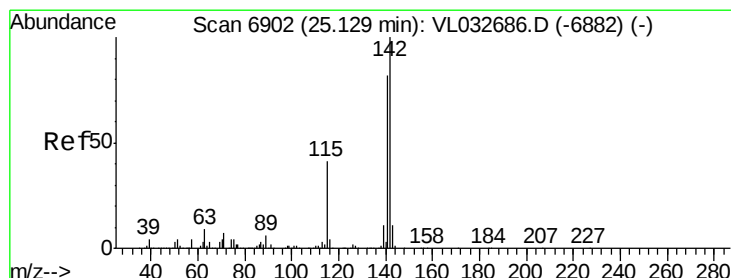
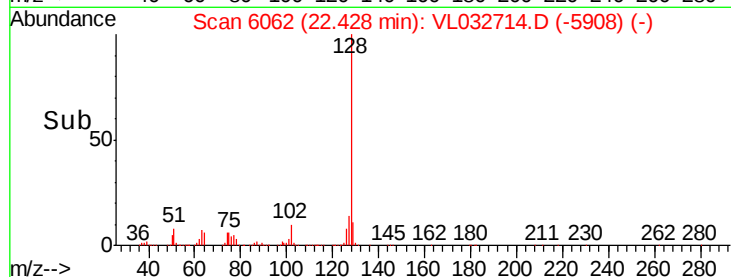
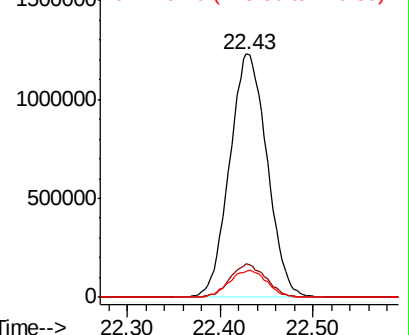
11/12/2018 12:30:01 PM



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: 18.762 ppbv

RT: 25.13 min Scan# 6901

Delta R.T. 0.00 min

Lab File: VL032714.D

Acq: 7 Nov 2018 12:58

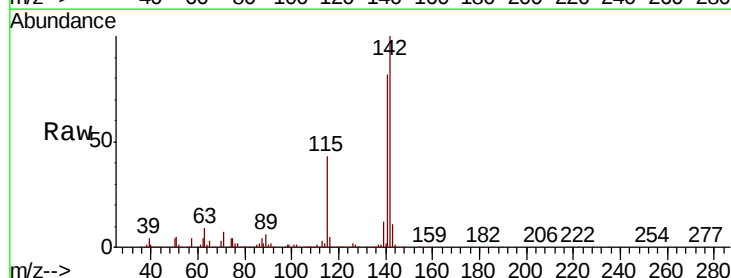
Tgt Ion:142 Resp: 1244380

Ion Ratio Lower Upper

142 100

141 84.0 67.5 101.3

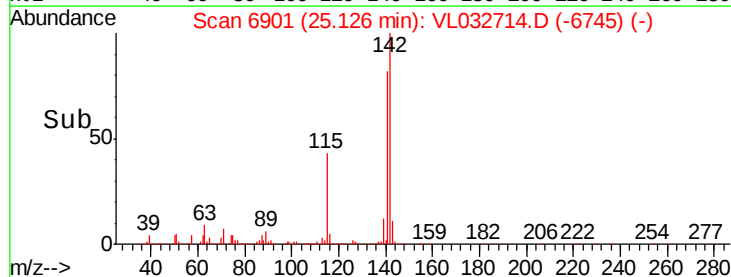
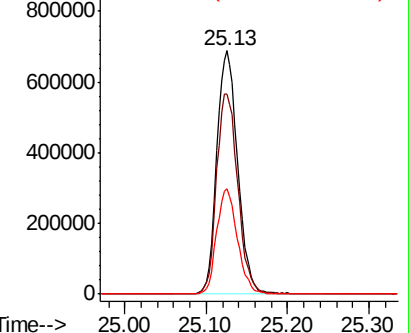
115 43.0 33.5 50.3

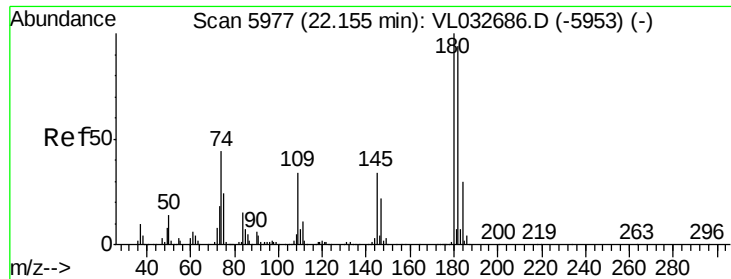


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 12.023 ppbv
 RT: 22.15 min Scan# 5977
 Delta R.T. 0.00 min
 Lab File: VL032714.D
 Acq: 7 Nov 2018 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.5	114.7
184	30.4	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:30:01 PM

