

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032351.D
 Acq On : 15 Aug 2018 11:56
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:27 PM

Quant Time: Aug 15 12:51:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 2018
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	2285545	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4886018	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.31	117	4620083	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.64	95	3554897	9.91	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	179098	0.65	ppbv	98
3) Chlorodifluoromethane	3.05	51	114438	0.50	ppbv	98
4) Chloromethane	3.21	50	70032	0.51	ppbv	96
5) Vinyl Chloride	3.33	62	62726	0.50	ppbv	96
6) Bromomethane	3.56	94	34071	0.49	ppbv	90
7) Chloroethane	3.65	64	23269	0.52	ppbv	94
8) Dichlorotetrafluoroethane	3.26	85	149596	0.54	ppbv	98
9) Propene	3.07	41	42812	0.42	ppbv	99
10) Heptane	8.31	43	125558	0.35	ppbv	98
11) Trichlorofluoromethane	4.05	101	145409	0.55	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.60	101	95418	0.53	ppbv	94
13) Ethanol	3.70	45	11310m	0.38	ppbv	
14) Bromoethene	3.83	108	41552	0.53	ppbv #	96
15) Acetone	3.96	43	127717	0.59	ppbv	97
16) 1,3-Butadiene	3.41	39	44297m	0.40	ppbv	
17) tert-Butyl alcohol	4.43	59	19062m	0.28	ppbv	
18) 1,1-Dichloroethene	4.40	96	42795	0.51	ppbv	96
19) Isopropyl Alcohol	4.10	45	79382m	0.55	ppbv	
20) Methylene Chloride	4.46	84	50903	0.59	ppbv	90
21) Allyl Chloride	4.53	41	66012	0.45	ppbv	96
22) trans-1,2-Dichloroethene	5.01	96	38268	0.48	ppbv #	83
23) Vinyl Acetate	5.21	43	164526	0.43	ppbv #	95
24) 1,1-Dichloroethane	5.14	63	135551	0.49	ppbv	96
25) Ethyl Acetate	5.83	43	230363	0.48	ppbv	98
26) Hexane	5.84	57	97972	0.45	ppbv	89
27) Carbon Disulfide	4.67	76	96975	0.49	ppbv #	89
28) Methyl tert-Butyl Ether	5.18	73	121189	0.41	ppbv	98
29) Chloroform	5.90	83	159262	0.50	ppbv	89
30) Cyclohexane	7.31	84	76569m	0.45	ppbv	
31) cis-1,2-Dichloroethene	5.69	61	93650	0.46	ppbv	95
32) 1,1,1-Trichloroethane	6.68	97	149978	0.53	ppbv	99
34) 2-Butanone	5.40	43	153155	0.48	ppbv	99
35) Carbon Tetrachloride	7.20	117	144573	0.52	ppbv	90
36) Benzene	7.07	78	189985	0.44	ppbv	98
37) 1,2-Dichloroethane	6.48	62	127793m	0.51	ppbv	
38) Trichloroethene	8.03	130	65180	0.39	ppbv	96
39) 1,2-Dichloropropane	7.80	63	82356	0.38	ppbv	95
40) 1,4-Dioxane	8.06	88	23317m	0.37	ppbv	
41) Tetrahydrofuran	6.23	42	70026	0.39	ppbv	98
42) Bromodichloromethane	7.98	83	157302	0.39	ppbv	96
43) Methyl Methacrylate	8.21	69	64501	0.31	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032351.D
 Acq On : 15 Aug 2018 11:56
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

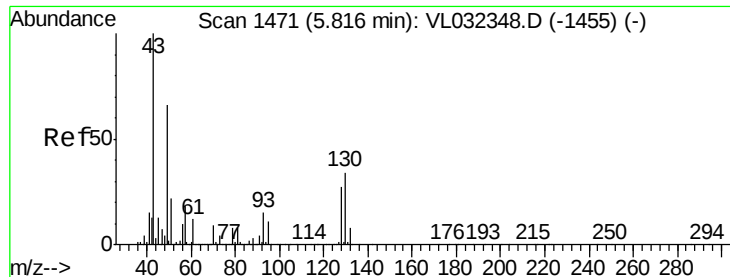
MMDadoda
 8/17/2018 2:06:27 PM

Quant Time: Aug 15 12:51:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 2018
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.06	57	331000	0.35	ppbv	94
45) t-1,3-Dichloropropene	9.48	75	74919m	0.31	ppbv	
46) cis-1,3-Dichloropropene	8.90	75	89950	0.31	ppbv	96
47) 1,1,2-Trichloroethane	9.68	97	92749	0.44	ppbv	98
48) Dibromochloromethane	10.51	129	115511	0.37	ppbv	98
49) Bromoform	13.27	173	90428	0.35	ppbv	97
50) 4-Methyl-2-Pentanone	8.95	43	206748	0.37	ppbv	98
51) 2-Hexanone	10.36	43	121471	0.29	ppbv #	93
52) Tetrachloroethene	11.44	164	59904	0.41	ppbv	96
53) Toluene	10.02	91	170831	0.33	ppbv	95
54) 1,2-Dibromoethane	10.83	107	109362	0.37	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.34	131	102272	0.54	ppbv #	1
57) Chlorobenzene	12.37	112	183772	0.51	ppbv #	96
58) Ethyl Benzene	12.93	91	230058	0.40	ppbv	97
59) m/p-Xylene	13.22	91	433002m	0.88	ppbv	
60) o-Xylene	13.92	91	206490	0.43	ppbv	98
61) Styrene	13.76	104	116637	0.33	ppbv	99
62) Isopropylbenzene	14.90	105	305942	0.45	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.90	83	208382	0.53	ppbv	99
64) n-propylbenzene	15.79	120	76795m	0.43	ppbv	
65) tert-Butylbenzene	16.97	119	254989	0.44	ppbv	99
66) Benzyl Chloride	17.22	91	129294m	0.37	ppbv	
67) sec-Butylbenzene	17.53	105	385442	0.44	ppbv	98
69) p-Isopropyltoluene	17.88	119	272435	0.40	ppbv	98
70) n-Butylbenzene	18.78	91	296882	0.38	ppbv	95
71) 2-Chlorotoluene	15.69	91	218531	0.41	ppbv	97
72) 4-Ethyltoluene	16.07	105	203888	0.38	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.22	105	209066	0.39	ppbv	94
74) 1,2,4-Trimethylbenzene	16.99	105	245349	0.44	ppbv	98
75) 1,3-Dichlorobenzene	17.23	146	168239	0.52	ppbv	95
76) 1,4-Dichlorobenzene	17.37	146	136800	0.44	ppbv	96
77) 1,2-Dichlorobenzene	18.06	146	148580m	0.46	ppbv	
78) Hexachloro-1,3-Butadiene	23.60	225	57926m	0.51	ppbv	
79) Naphthalene	22.49	128	115850m	0.24	ppbv	
80) Naphthalene, 2-methyl-	25.17	142	9652	0.05	ppbv	87
81) 1,2,4-Trichlorobenzene	22.21	180	76926m	0.32	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 2285545

Ion Ratio Lower Upper

49 100

128 40.6 20.2 60.6

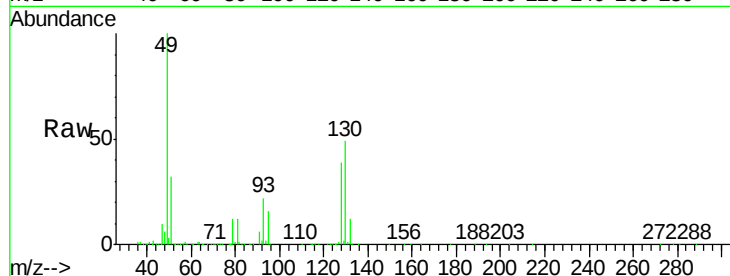
130 51.8 25.8 77.3

Manual Integrations

APPROVED

MMDadoda

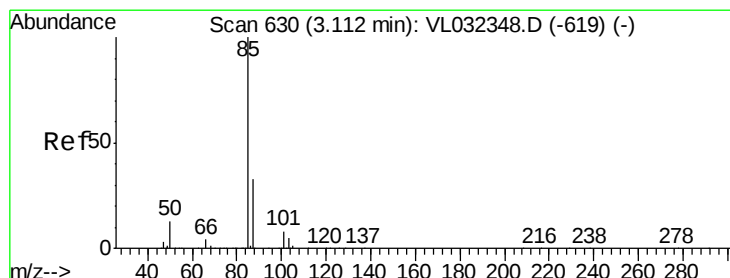
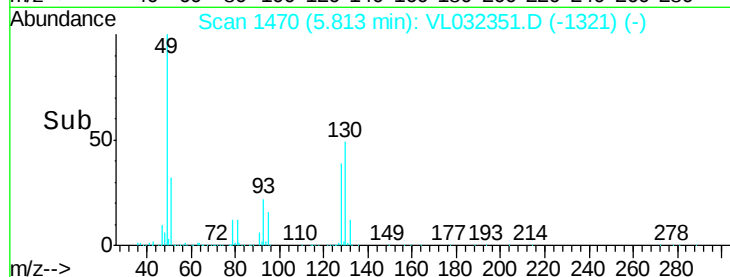
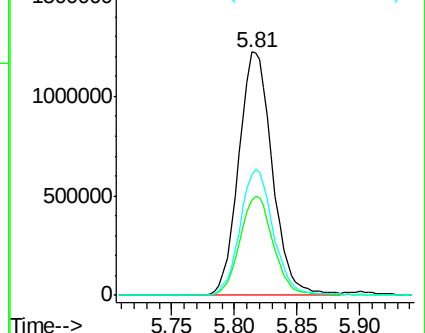
8/17/2018 2:06:27 PM



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: 0.65 ppbv

RT: 3.12 min Scan# 631

Delta R.T. -0.01 min

Lab File: VL032351.D

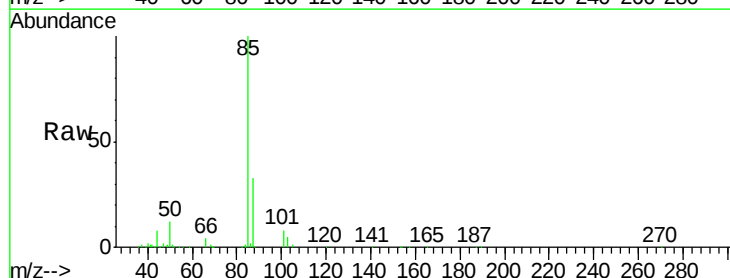
Acq: 15 Aug 2018 11:56

Tgt Ion: 85 Resp: 179098

Ion Ratio Lower Upper

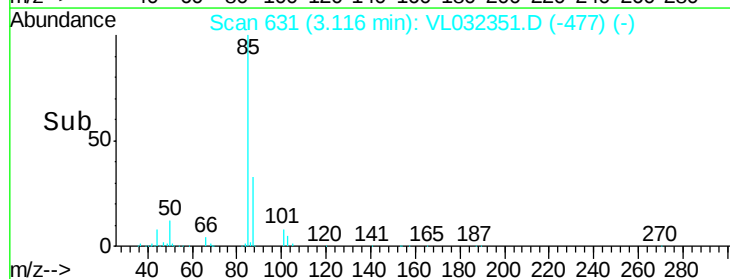
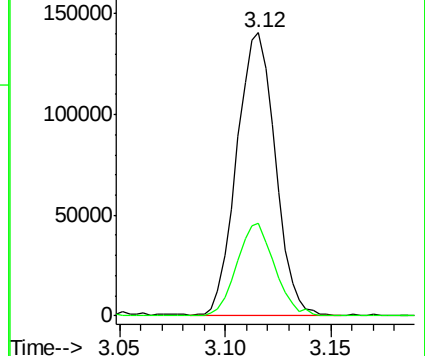
85 100

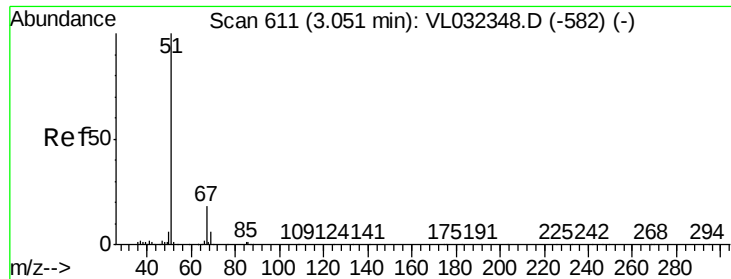
87 32.8 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.50 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.01 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 114438

Ion Ratio Lower Upper

51 100

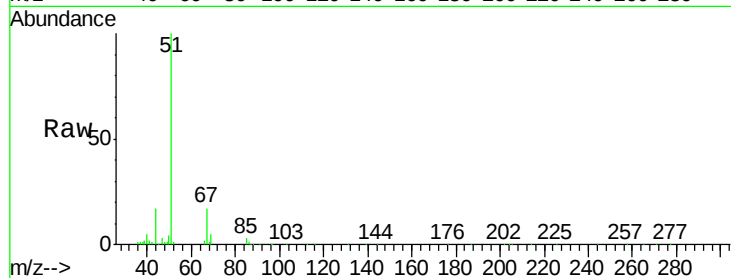
67 17.8 13.5 20.3

Manual Integrations

APPROVED

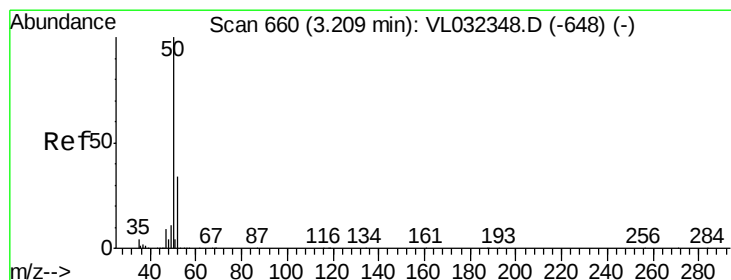
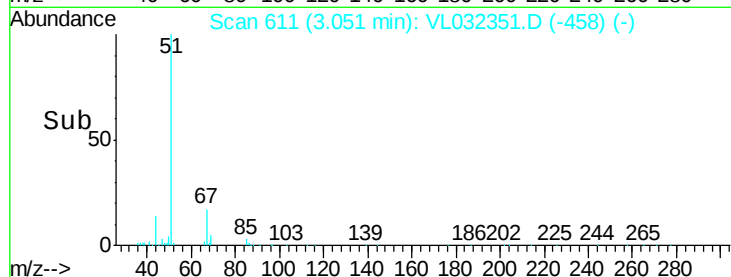
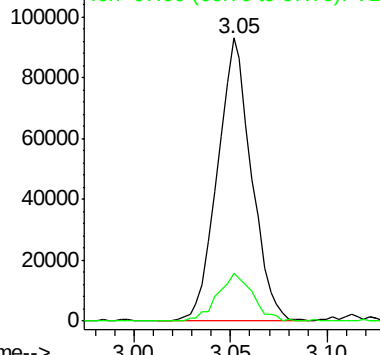
MMDadoda

8/17/2018 2:06:27 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.51 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL032351.D

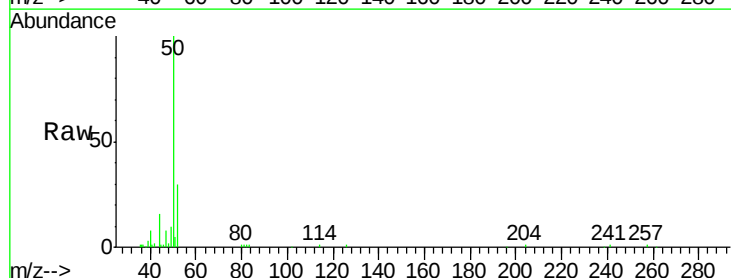
Acq: 15 Aug 2018 11:56

Tgt Ion: 50 Resp: 70032

Ion Ratio Lower Upper

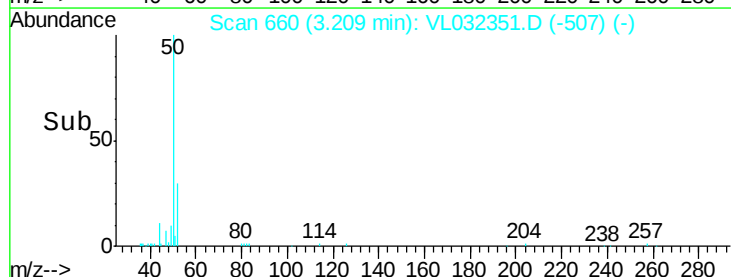
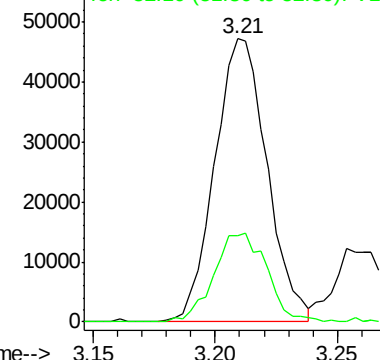
50 100

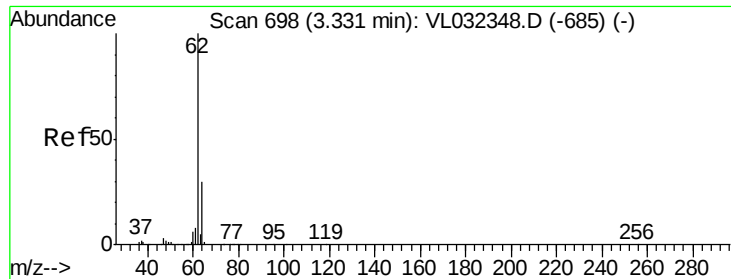
52 30.3 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.50 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 62726

Ion Ratio Lower Upper

62 100

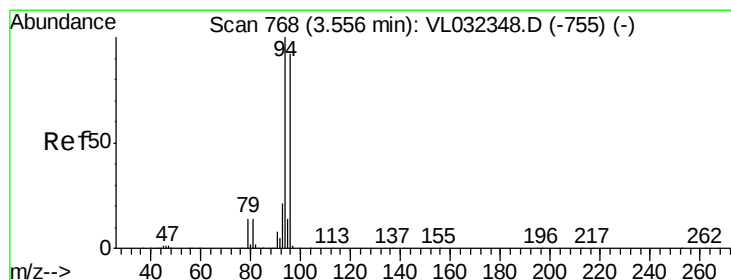
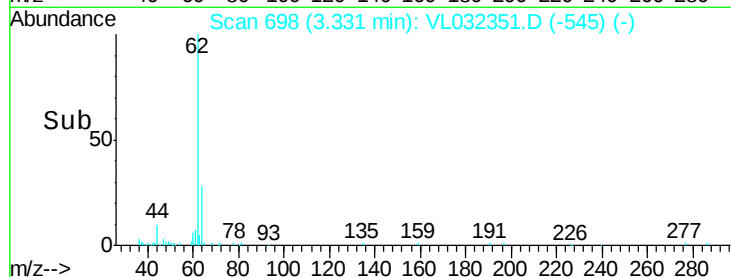
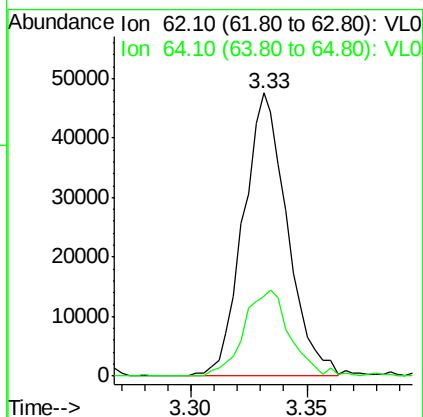
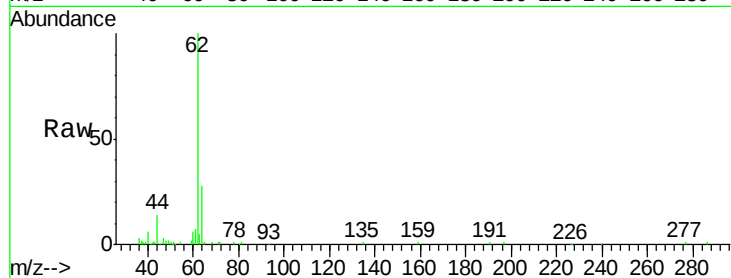
64 28.1 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:27 PM



#6

Bromomethane

Concen: 0.49 ppbv

RT: 3.56 min Scan# 769

Delta R.T. -0.01 min

Lab File: VL032351.D

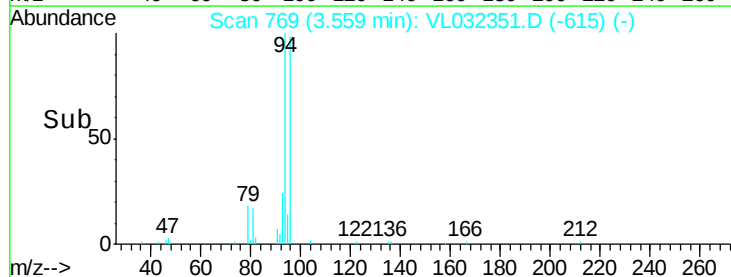
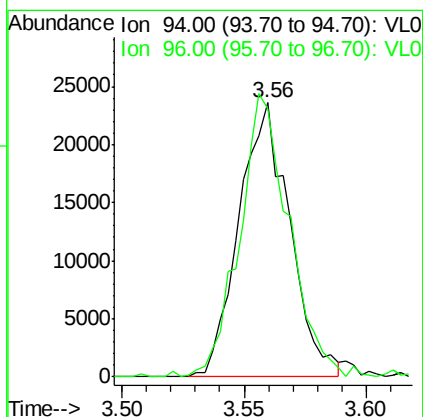
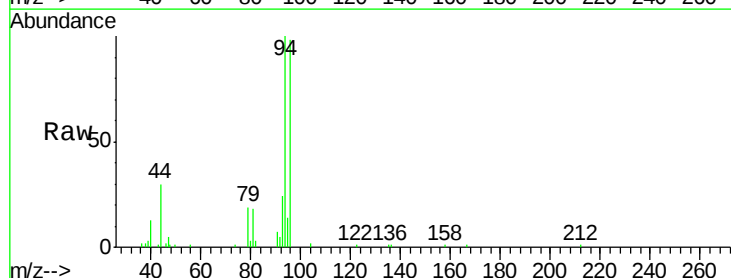
Acq: 15 Aug 2018 11:56

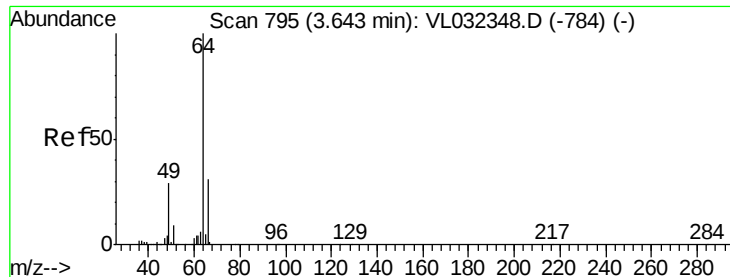
Tgt Ion: 94 Resp: 34071

Ion Ratio Lower Upper

94 100

96 96.9 70.2 105.4





#7

Chloroethane

Concen: 0.52 ppbv

RT: 3.65 min Scan# 796

Delta R.T. -0.01 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 23269

Ion Ratio Lower Upper

64 100

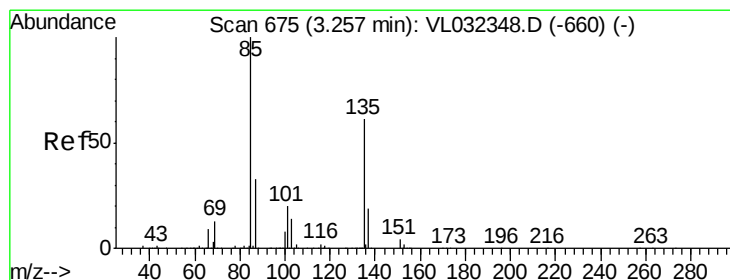
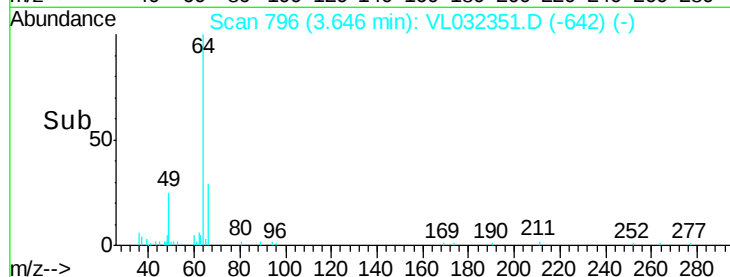
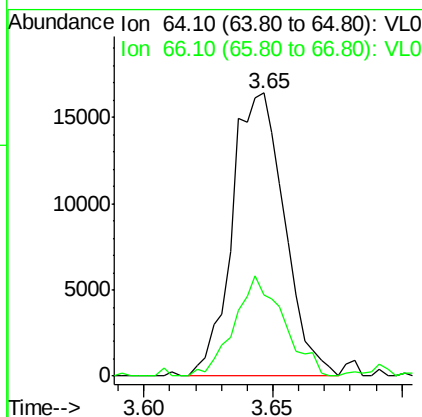
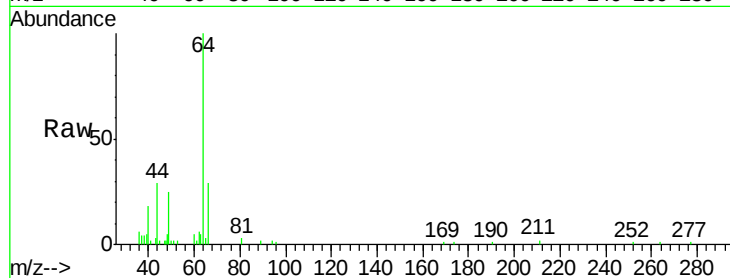
66 28.8 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:27 PM



#8

Dichlorotetrafluoroethane

Concen: 0.54 ppbv

RT: 3.26 min Scan# 675

Delta R.T. -0.01 min

Lab File: VL032351.D

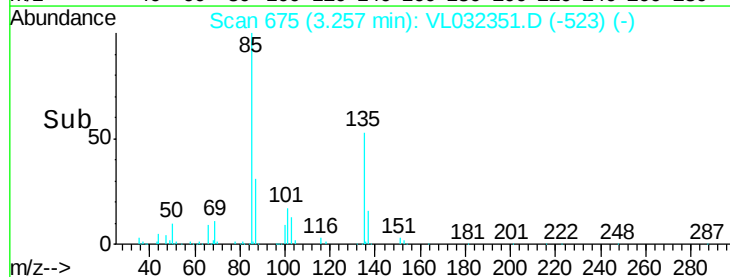
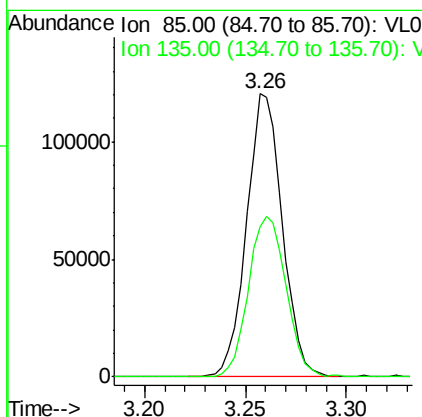
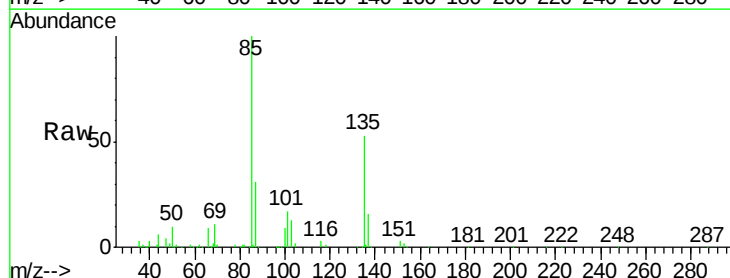
Acq: 15 Aug 2018 11:56

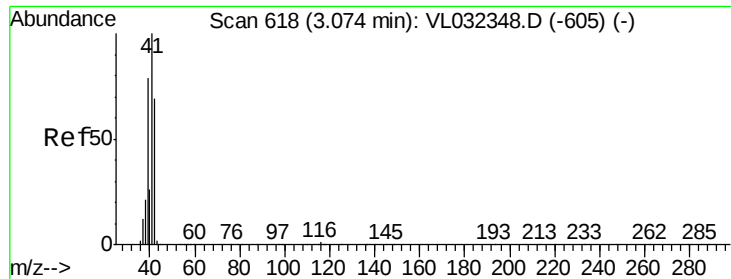
Tgt Ion: 85 Resp: 149596

Ion Ratio Lower Upper

85 100

135 59.7 48.7 73.1





#9

Propene

Concen: 0.42 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.01 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 42812

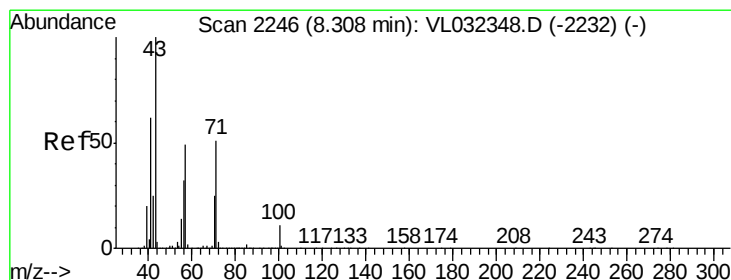
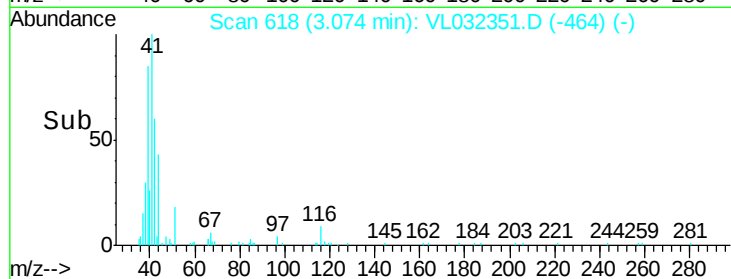
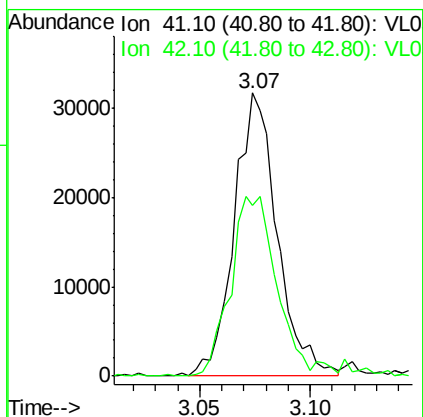
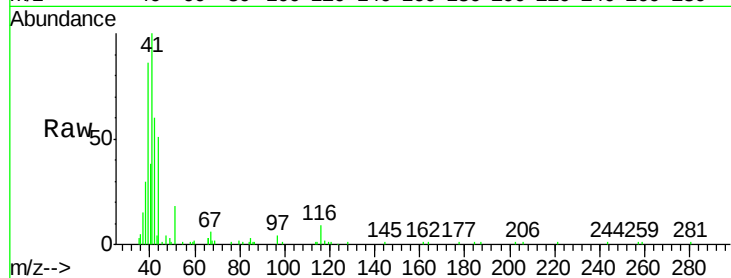
Ion Ratio Lower Upper

41 100

42 71.6 56.8 85.2

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:27 PM



#10

Heptane

Concen: 0.35 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. -0.02 min

Lab File: VL032351.D

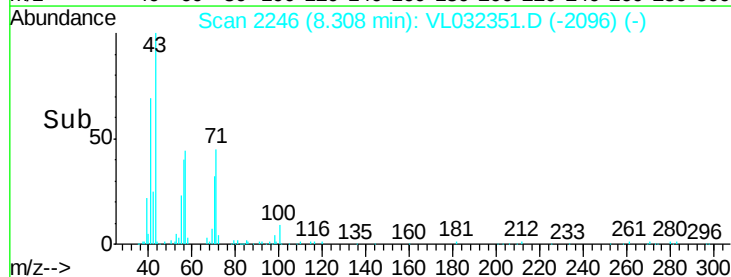
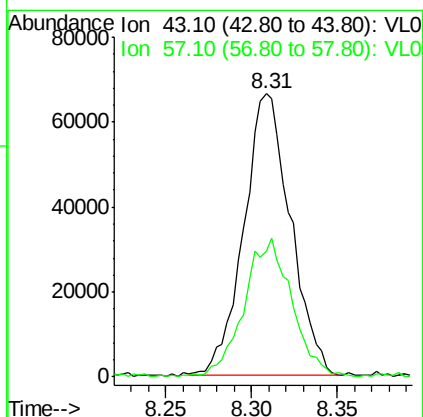
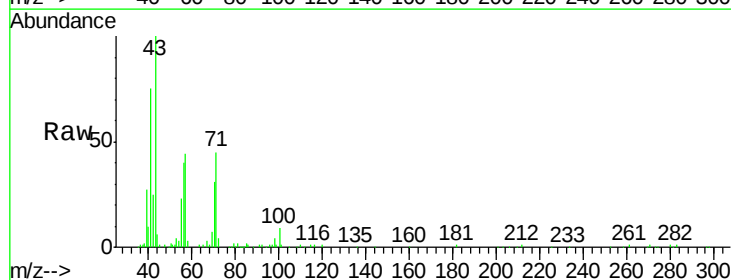
Acq: 15 Aug 2018 11:56

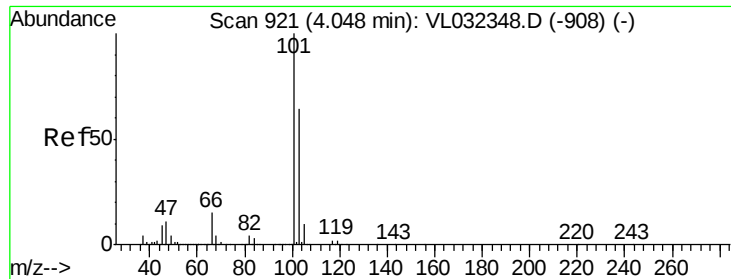
Tgt Ion: 43 Resp: 125558

Ion Ratio Lower Upper

43 100

57 50.3 39.0 58.4





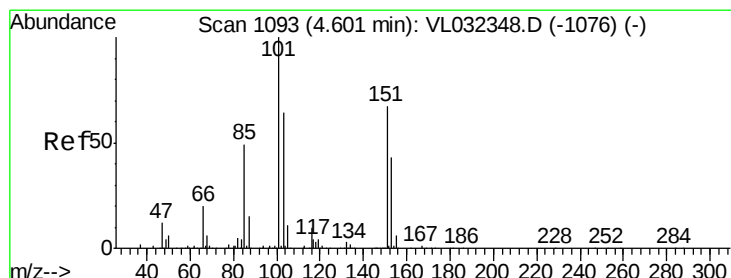
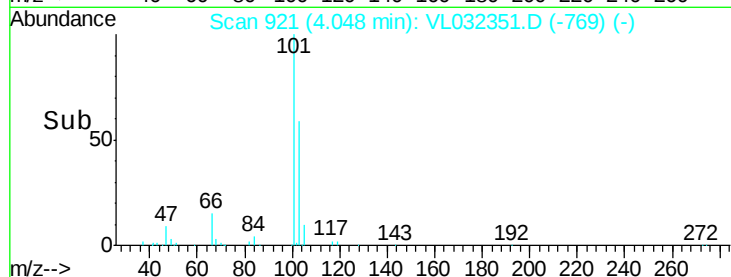
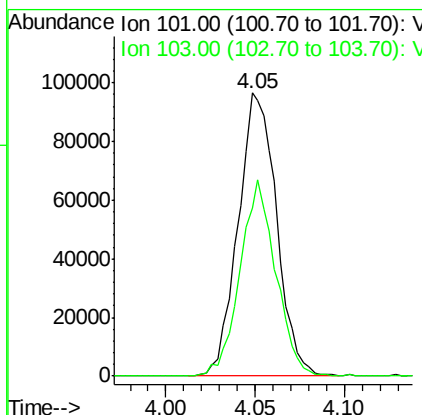
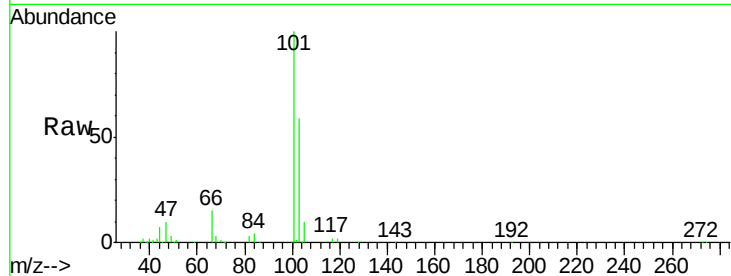
#11
 Trichlorofluoromethane
 Concen: 0.55 ppbv
 RT: 4.05 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.4	52.6	78.8

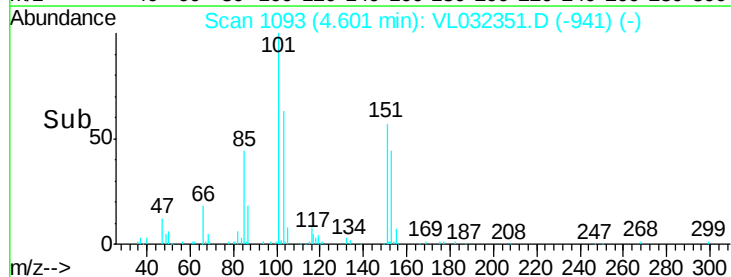
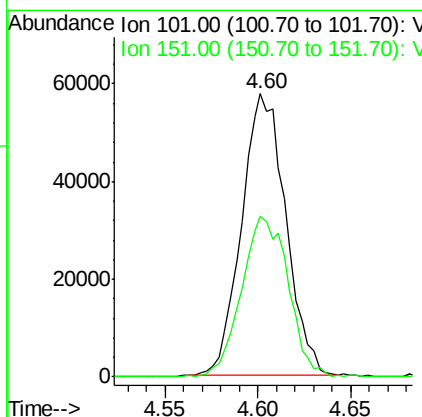
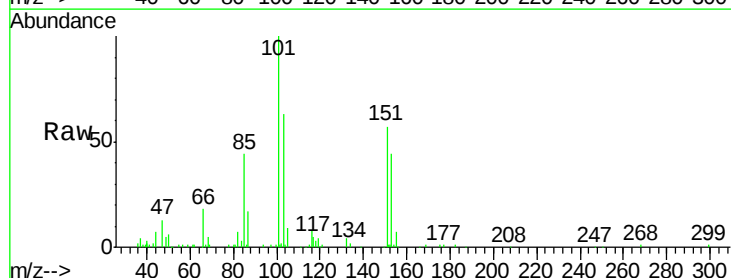
Manual Integrations
 APPROVED

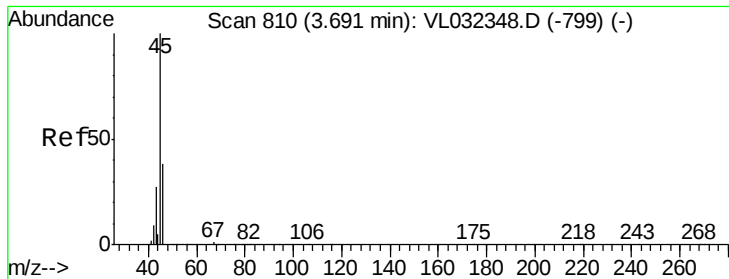
MMDadoda
 8/17/2018 2:06:27 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.53 ppbv
 RT: 4.60 min Scan# 1093
 Delta R.T. -0.01 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
101	100		
151	60.6	52.4	78.6





#13

Ethanol

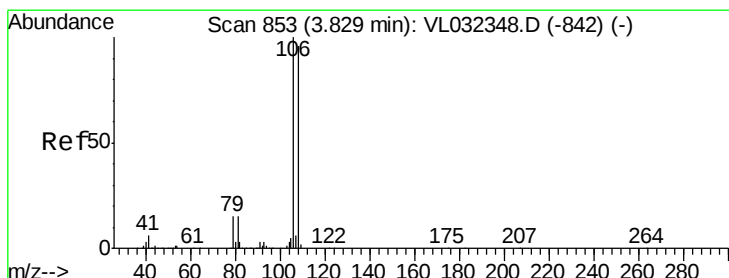
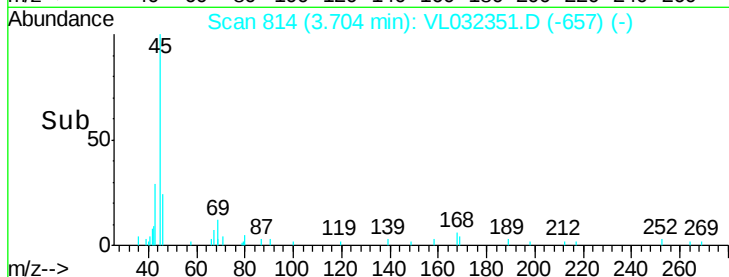
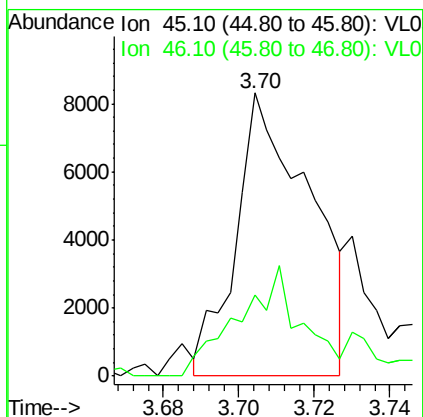
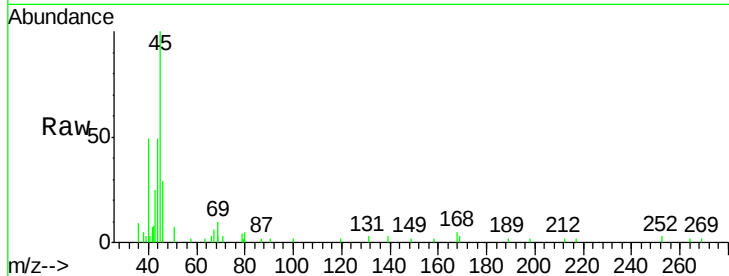
Concen: 0.38 ppbv m
 RT: 3.70 min Scan# 814
 Delta R.T. 0.00 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	45	46	Ratio	100	43.3	Resp	11310	Lower	Upper
45	100								
46		43.3					15.2		60.6

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:27 PM

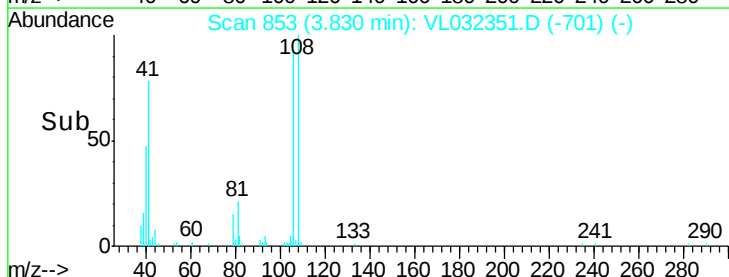
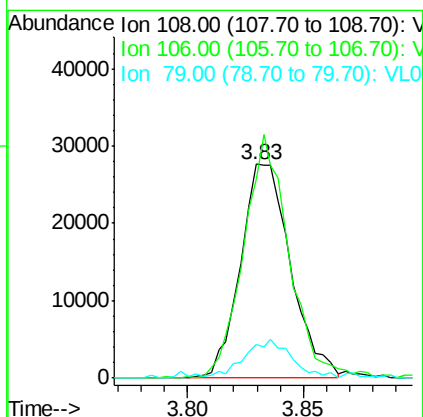
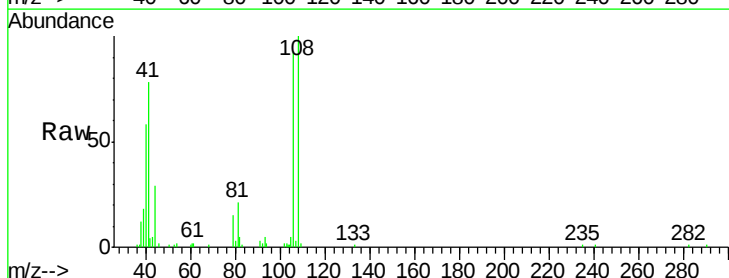


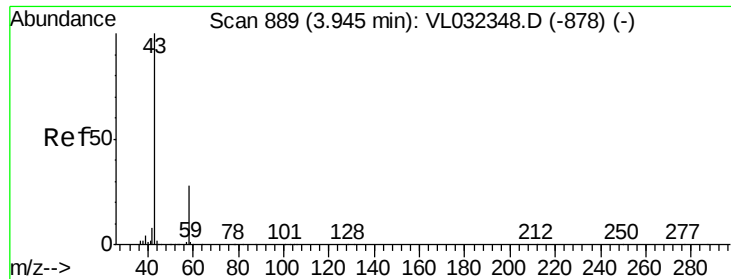
#14

Bromoethene

Concen: 0.53 ppbv
 RT: 3.83 min Scan# 853
 Delta R.T. -0.01 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	108	106	79	Ratio	100	103.8	19.3	Resp	41552	Lower	Upper
108	100										
106		103.8							86.0		129.0
79			19.3						12.8		19.2#





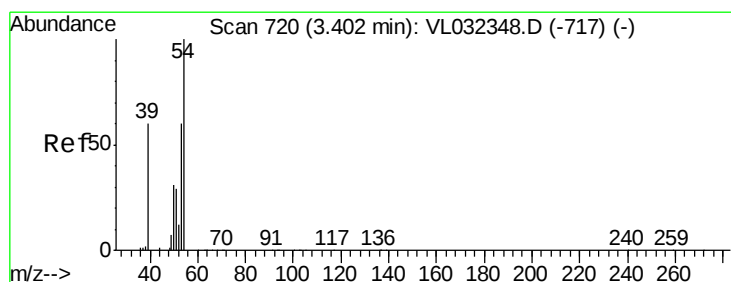
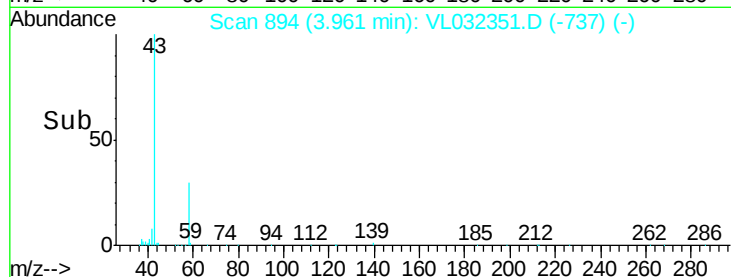
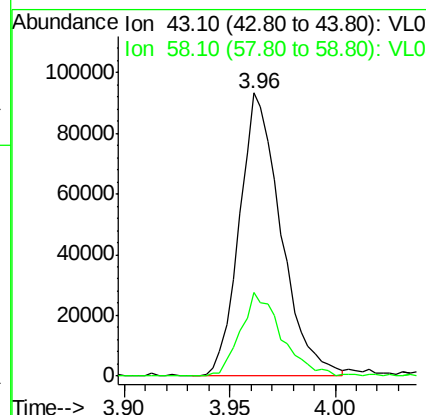
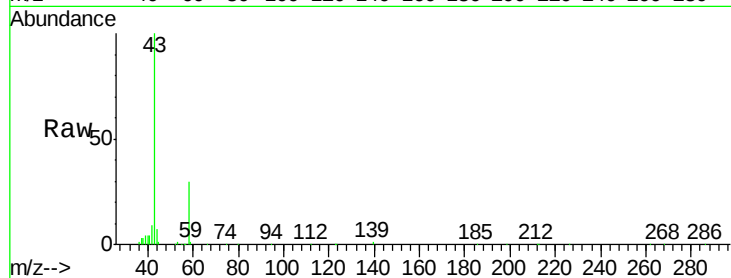
#15
Acetone
Concen: 0.59 ppbv
RT: 3.96 min Scan# 894
Delta R.T. 0.00 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	29.7	22.5	33.7

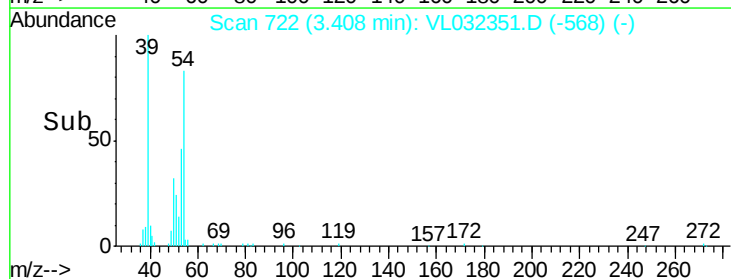
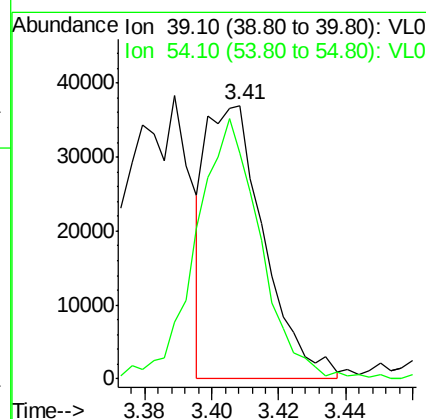
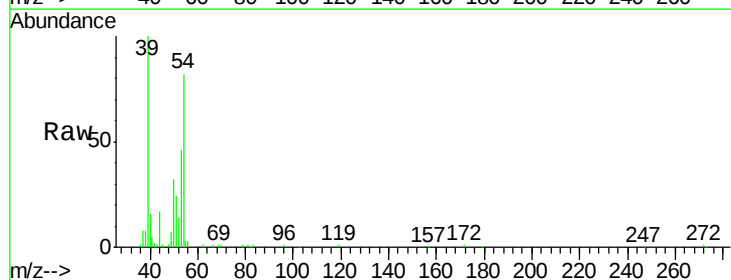
Manual Integrations
APPROVED

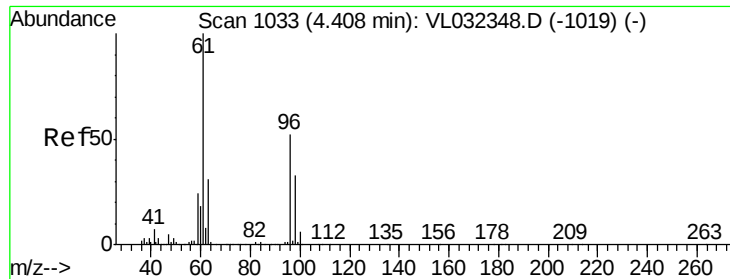
MMDadoda
8/17/2018 2:06:27 PM



#16
1,3-Butadiene
Concen: 0.40 ppbv m
RT: 3.41 min Scan# 722
Delta R.T. -0.01 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
39	100		
54	0.0	74.3	111.5#





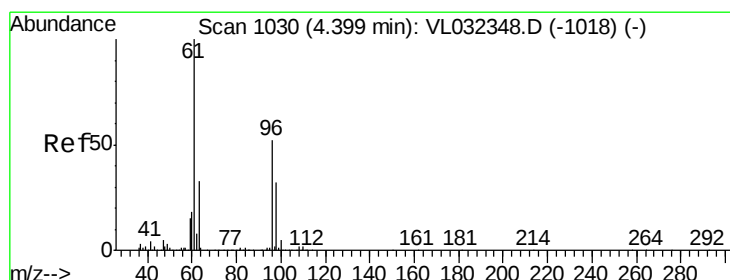
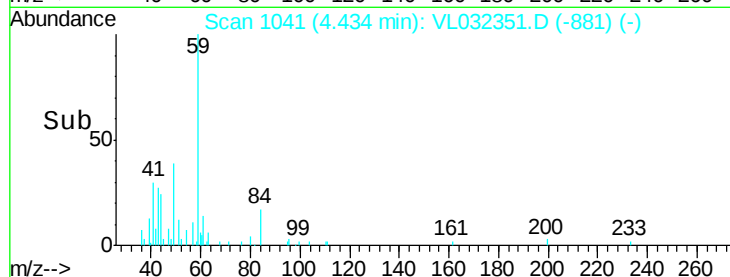
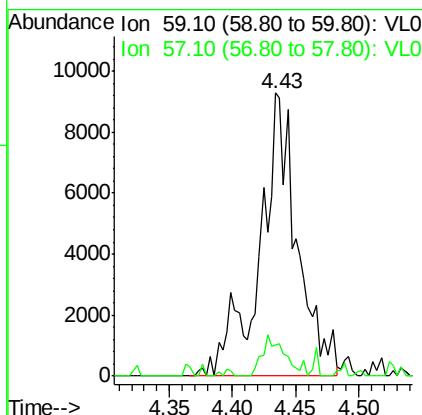
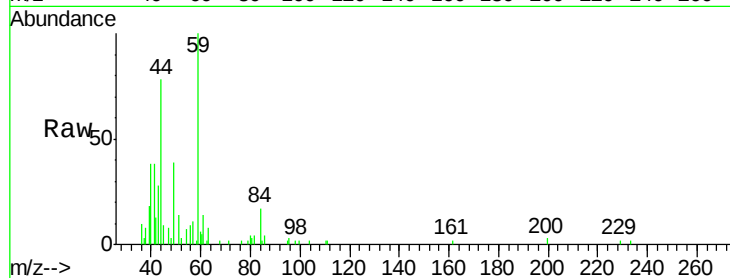
#17
tert-Butyl alcohol
Concen: 0.28 ppbv m
RT: 4.43 min Scan# 1041
Delta R.T. 0.01 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 59 Resp: 19062
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

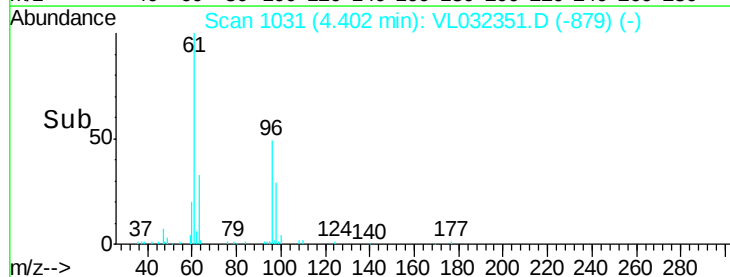
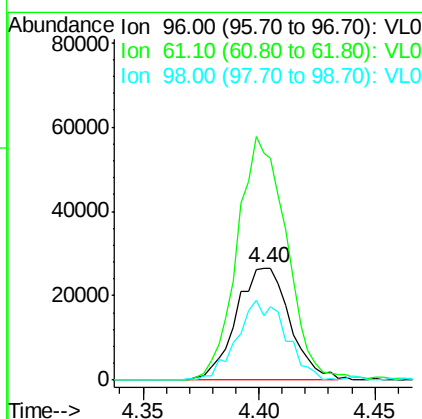
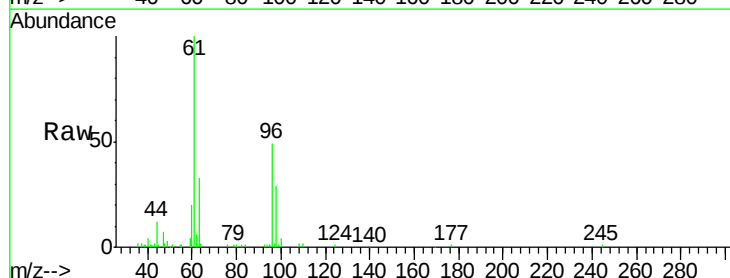
Manual Integrations
APPROVED

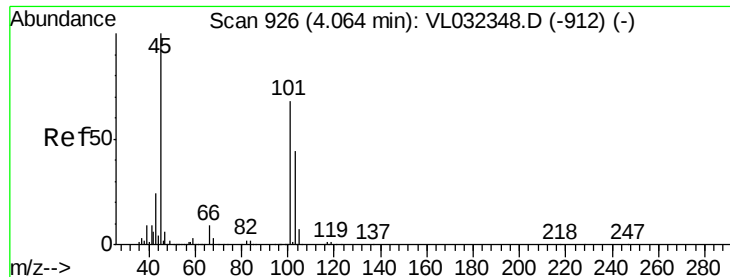
MMDadoda
8/17/2018 2:06:27 PM



#18
1,1-Dichloroethene
Concen: 0.51 ppbv
RT: 4.40 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion: 96 Resp: 42795
Ion Ratio Lower Upper
96 100
61 202.2 159.0 238.4
98 57.1 51.1 76.7





#19

Isopropyl Alcohol

Concen: 0.55 ppbv m

RT: 4.10 min Scan# 936

Delta R.T. 0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 79382

Ion Ratio Lower Upper

45 100

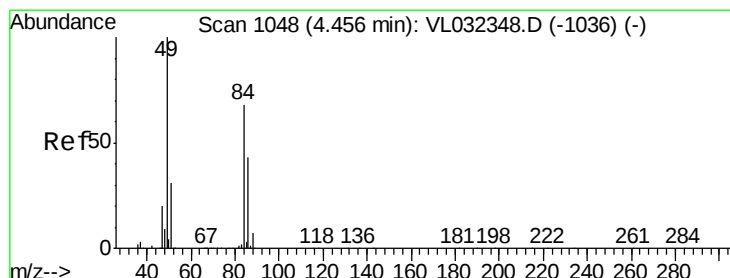
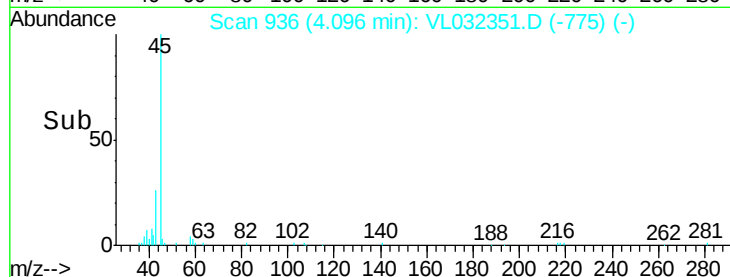
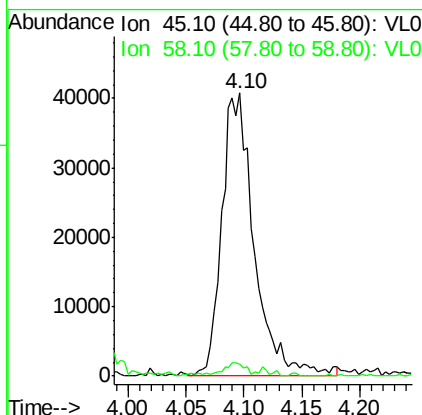
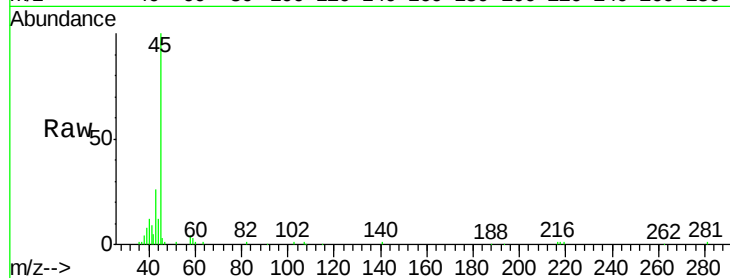
58 4.9 1.5 2.3#

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:27 PM



#20

Methylene Chloride

Concen: 0.59 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Tgt Ion: 84 Resp: 50903

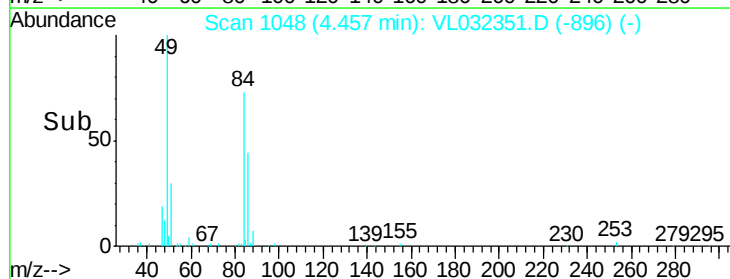
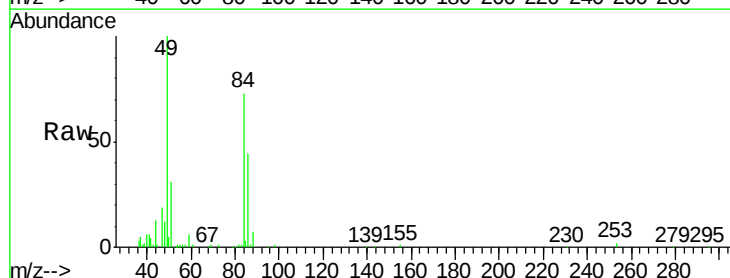
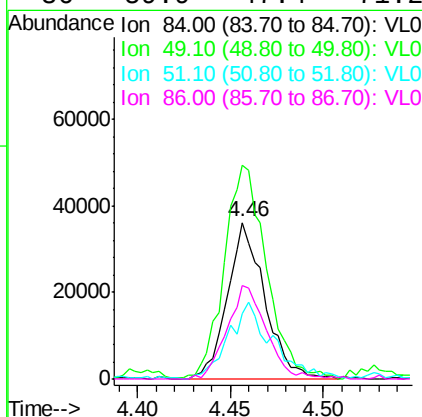
Ion Ratio Lower Upper

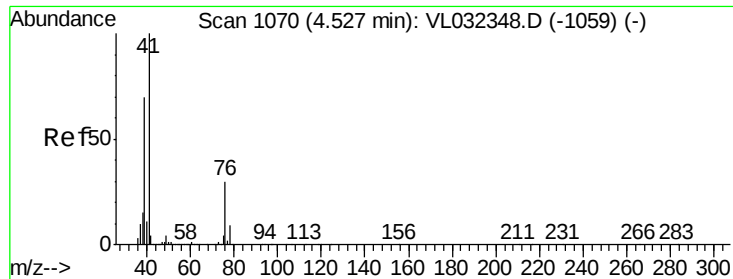
84 100

49 136.6 123.4 185.0

51 41.7 38.2 57.2

86 59.9 47.4 71.2





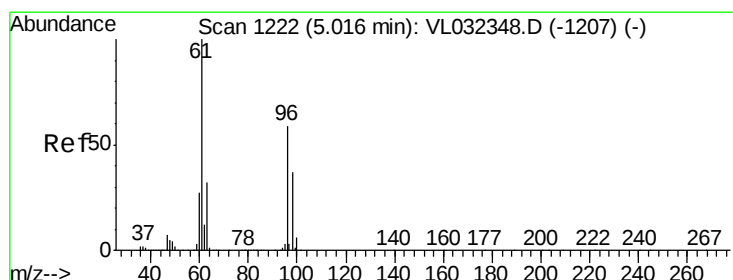
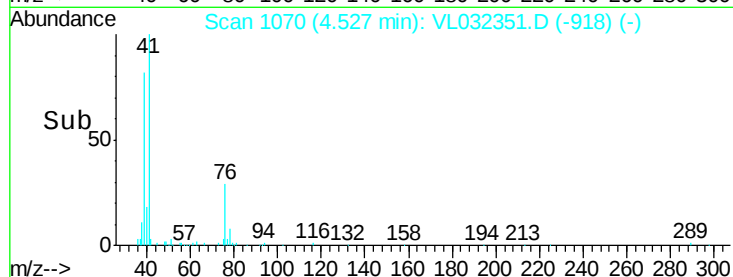
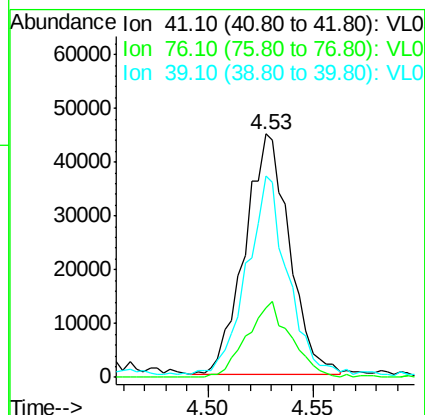
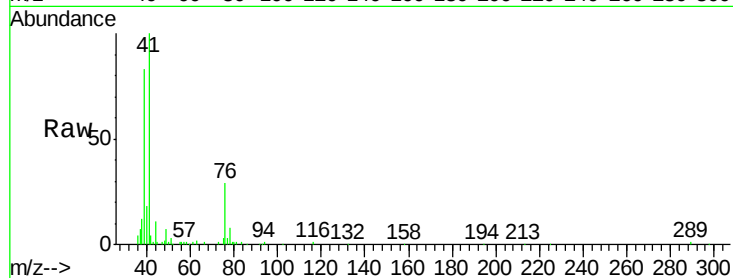
#21
Allvl Chloride
Concen: 0.45 ppbv
RT: 4.53 min Scan# 1070
Delta R.T. -0.01 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.4	23.1	34.7
39	76.4	58.2	87.2

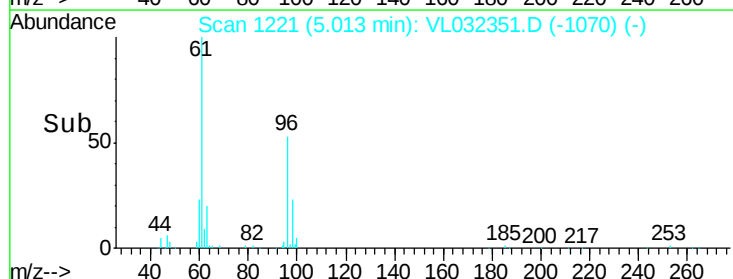
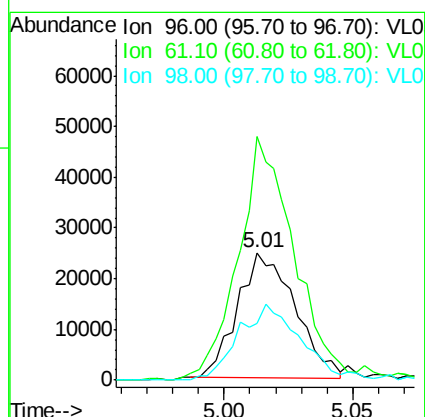
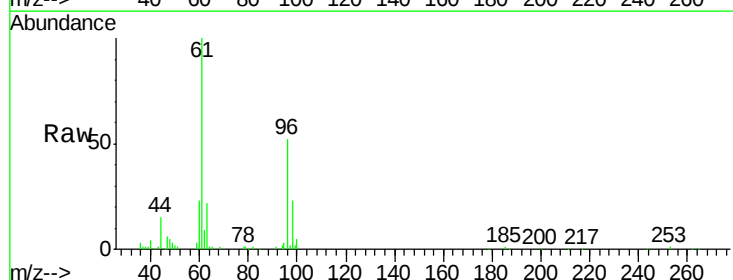
Manual Integrations
APPROVED

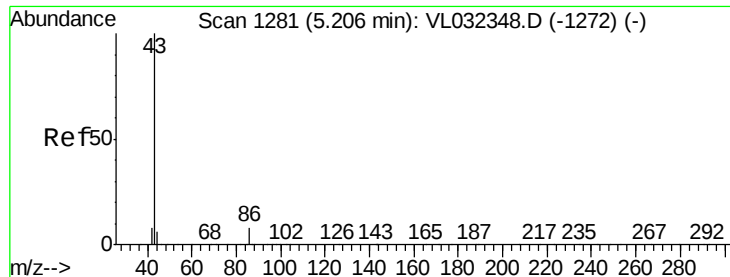
MMDadoda
8/17/2018 2:06:27 PM



#22
trans-1,2-Dichloroethene
Concen: 0.48 ppbv
RT: 5.01 min Scan# 1221
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	189.7	136.5	204.7
98	45.3	51.3	76.9#





#23

Vinyl Acetate

Concen: 0.43 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.01 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

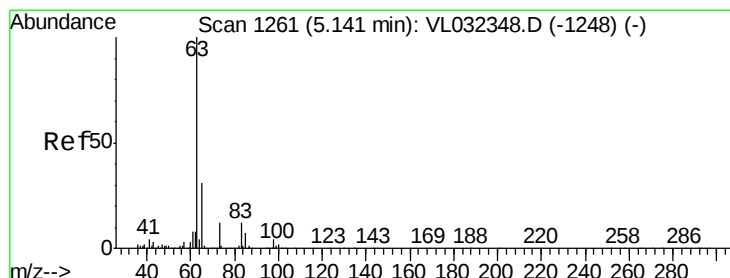
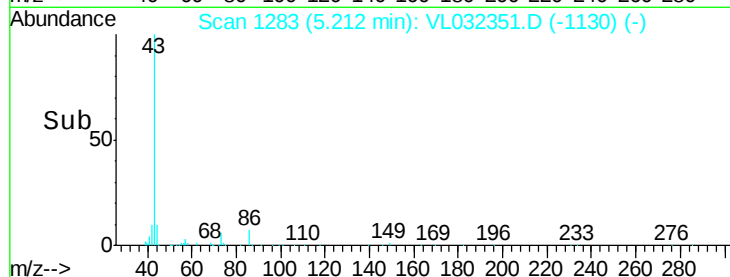
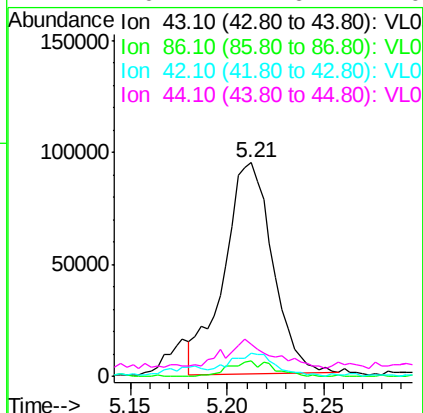
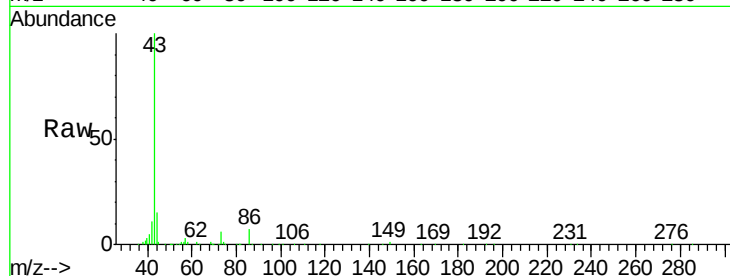
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.3	9.5
42	10.4	7.0	10.4
44	10.2	4.6	7.0#

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:27 PM



#24

1,1-Dichloroethane

Concen: 0.49 ppbv

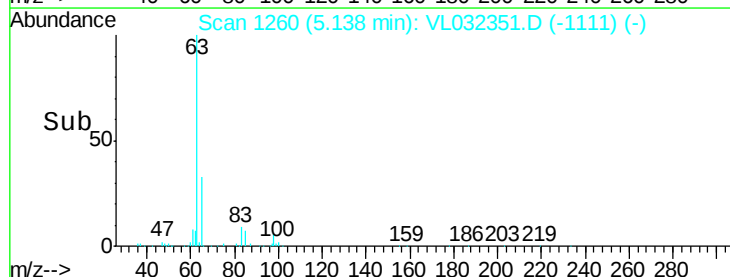
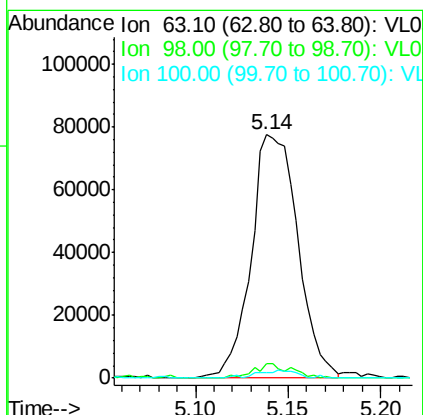
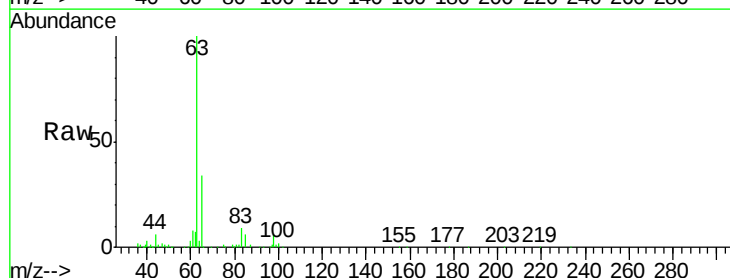
RT: 5.14 min Scan# 1260

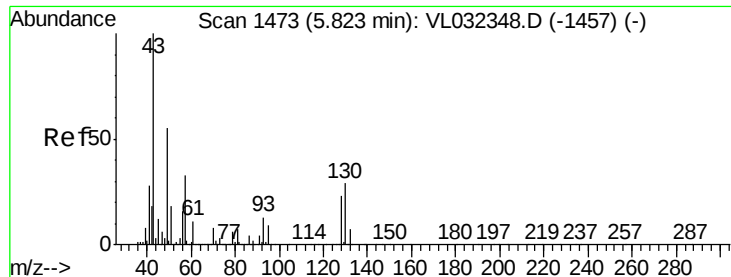
Delta R.T. -0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.2	2.1	6.5
100	2.5	1.3	3.8





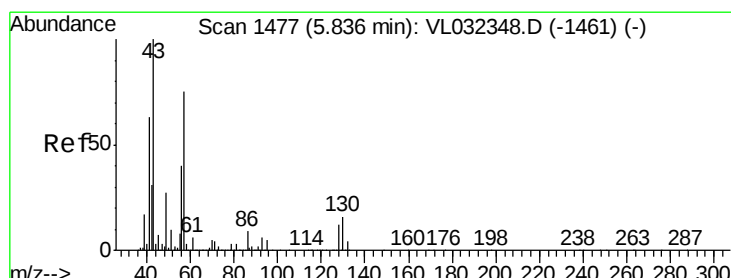
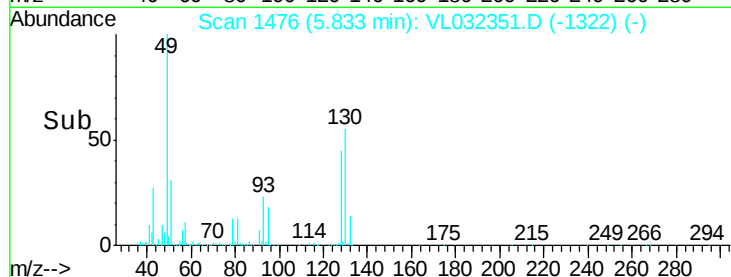
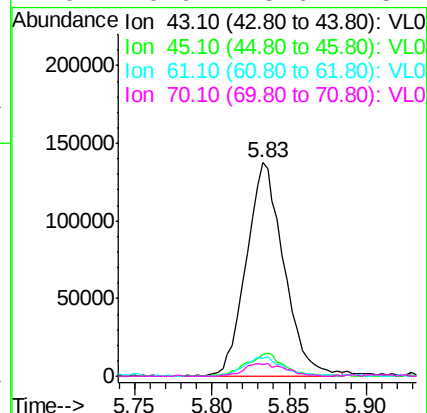
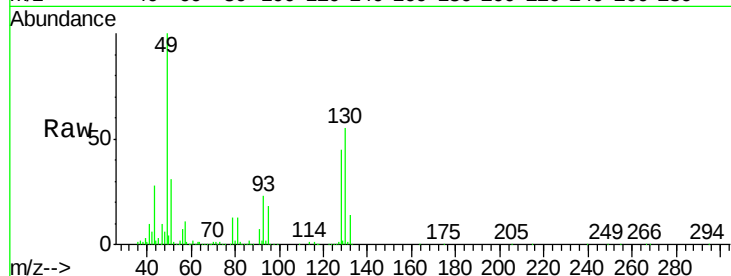
#25
Ethyl Acetate
Concen: 0.48 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.01 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	11.0	8.1	12.1		
61	10.0	7.4	11.0		
70	6.9	5.6	8.4		

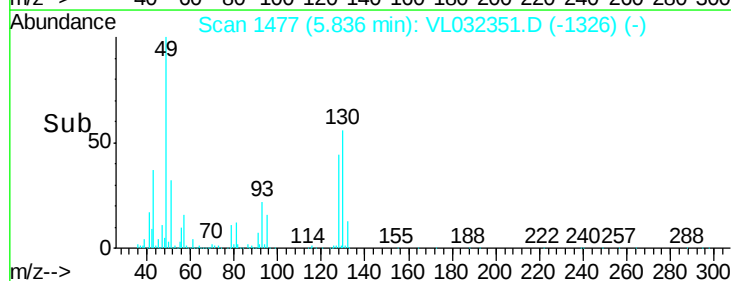
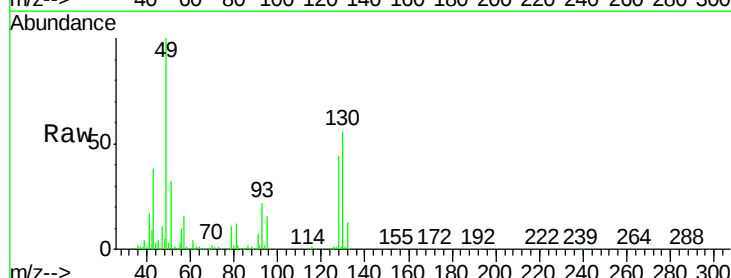
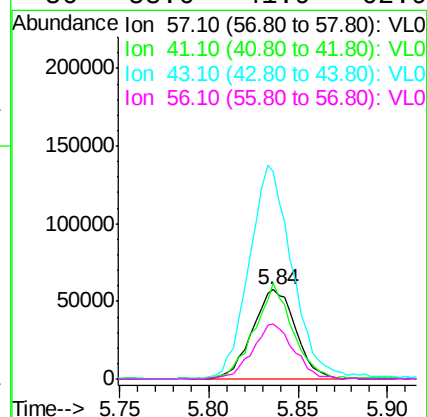
Manual Integrations
APPROVED

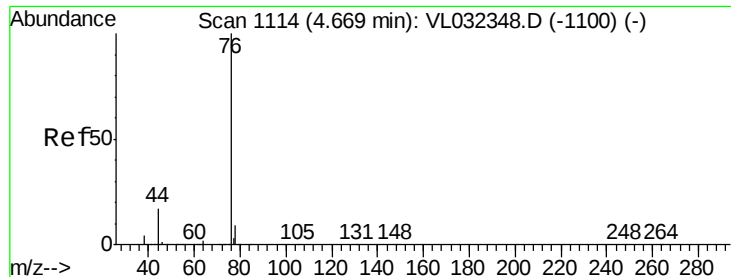
MMDadoda
8/17/2018 2:06:27 PM



#26
Hexane
Concen: 0.45 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	96.7	68.1	102.1		
43	239.7	177.4	266.2		
56	58.6	41.9	62.9		





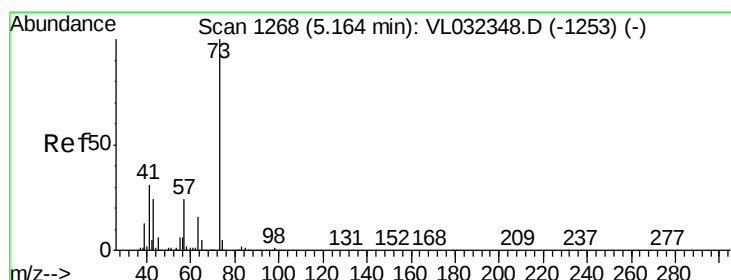
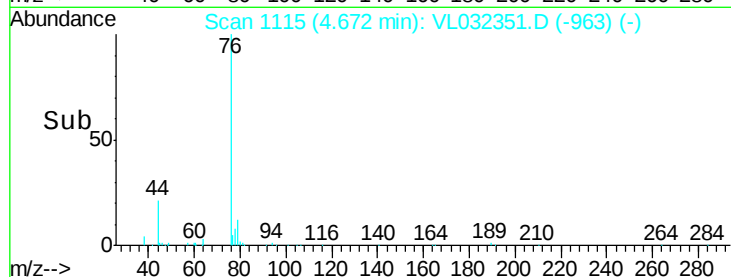
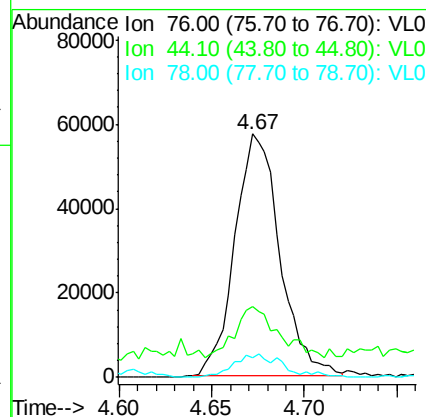
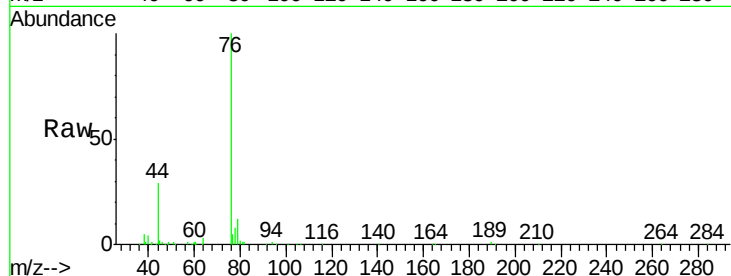
#27
Carbon Disulfide
Concen: 0.49 ppbv
RT: 4.67 min Scan# 1115
Delta R.T. -0.01 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
44	24.3	14.0	21.0#
78	10.6	7.5	11.3

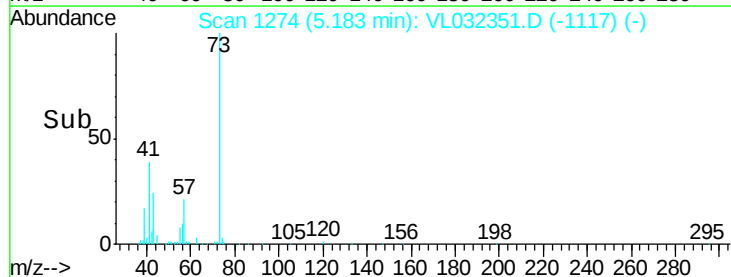
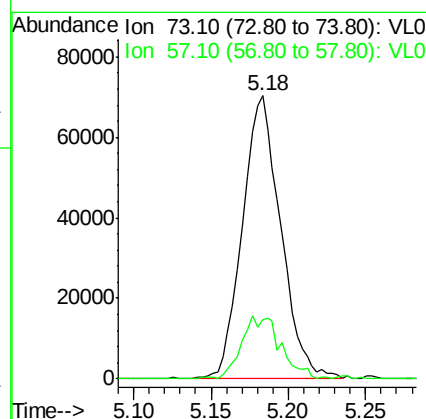
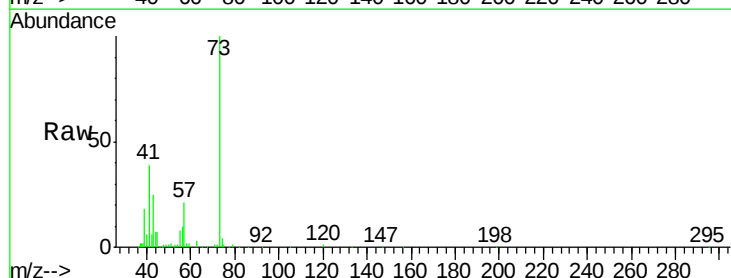
Manual Integrations
APPROVED

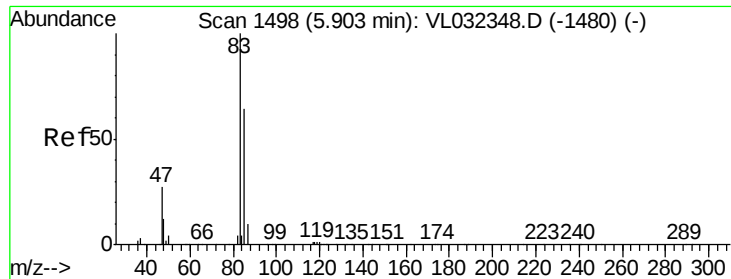
MMDadoda
8/17/2018 2:06:27 PM



#28
Methyl tert-Butyl Ether
Concen: 0.41 ppbv
RT: 5.18 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.4	19.4	29.0





#29

Chloroform

Concen: 0.50 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 159262

Ion Ratio Lower Upper

83 100

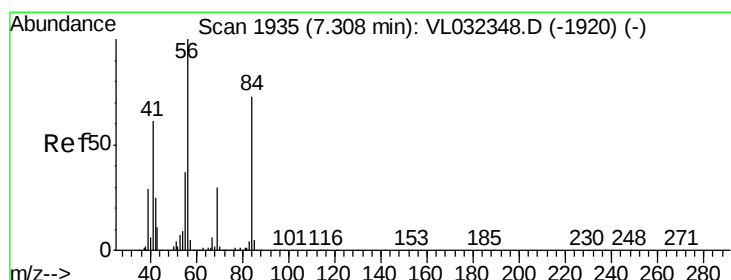
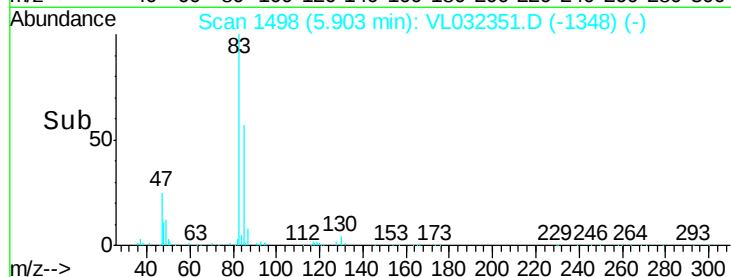
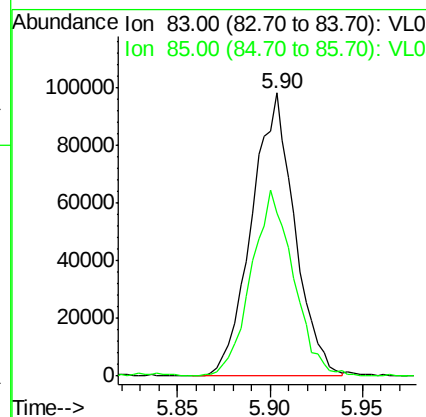
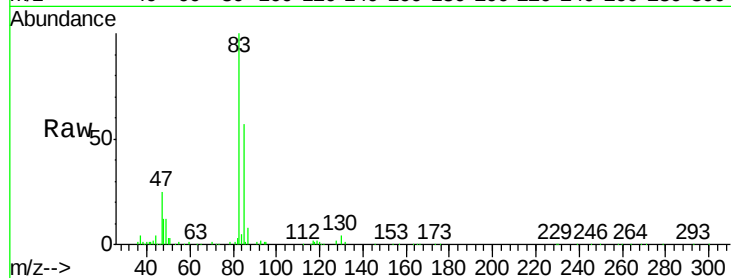
85 57.5 52.9 79.3

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:27 PM



#30

Cyclohexane

Concen: 0.45 ppbv m

RT: 7.31 min Scan# 1934

Delta R.T. -0.03 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

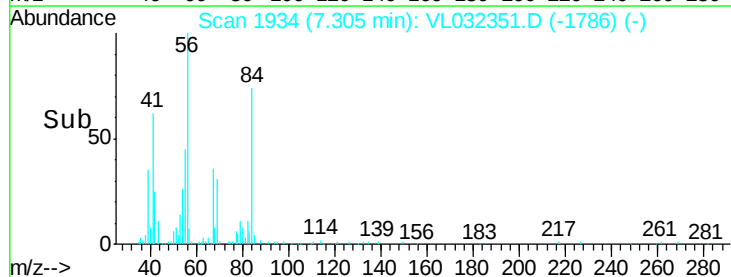
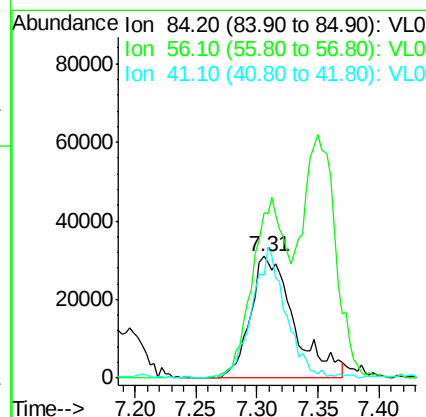
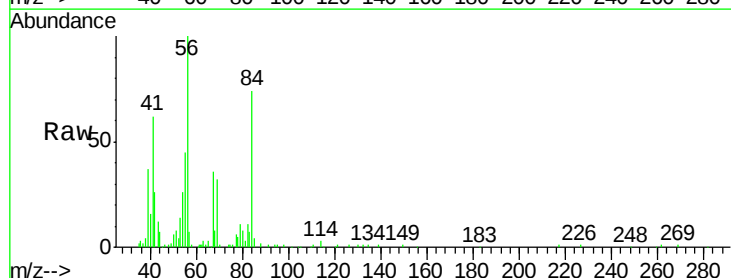
Tgt Ion: 84 Resp: 76569

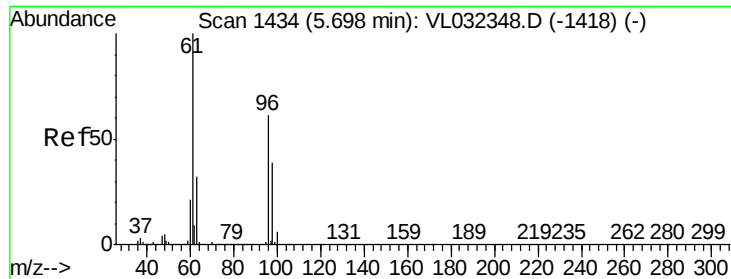
Ion Ratio Lower Upper

84 100

56 0.0 116.8 175.2#

41 0.0 70.0 105.0#





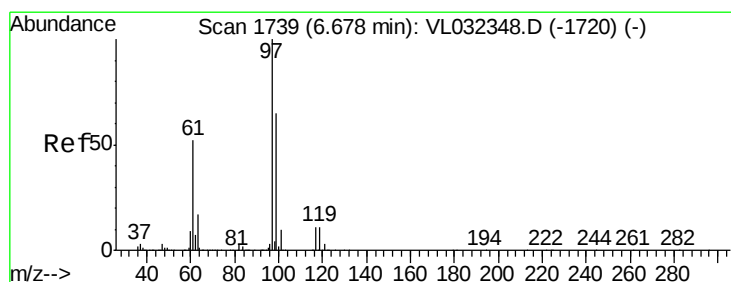
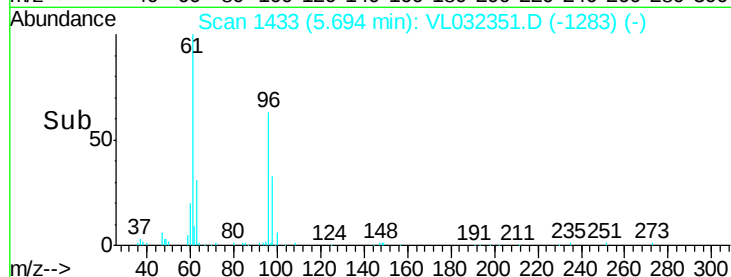
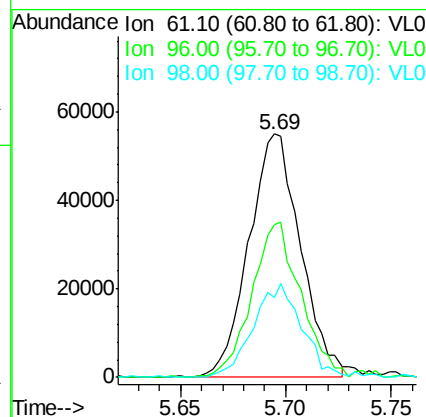
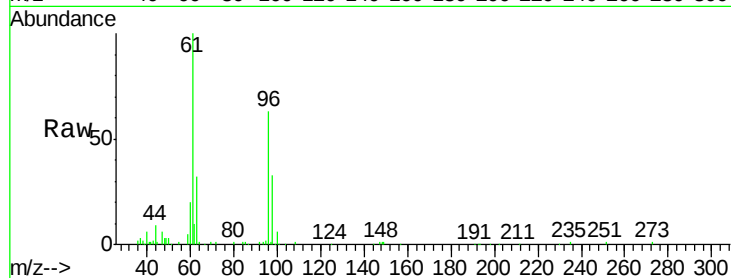
#31
 cis-1,2-Dichloroethene
 Concen: 0.46 ppbv
 RT: 5.69 min Scan# 1433
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	61	Resp:	93650
Ion	Ratio	Lower	Upper
61	100		
96	62.6	49.8	74.6
98	32.7	31.8	47.6

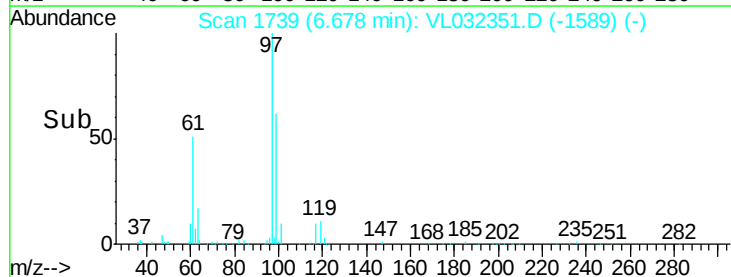
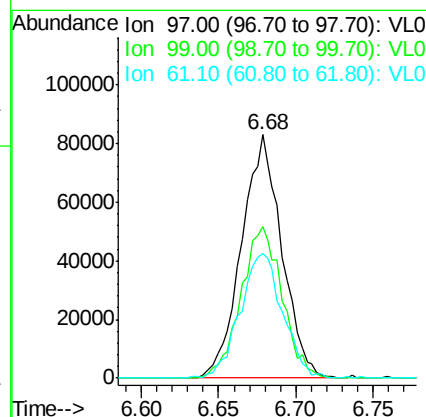
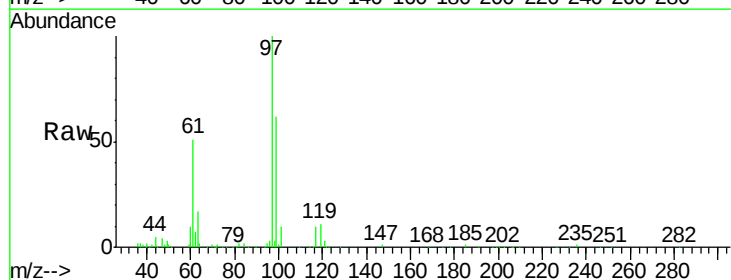
Manual Integrations
 APPROVED

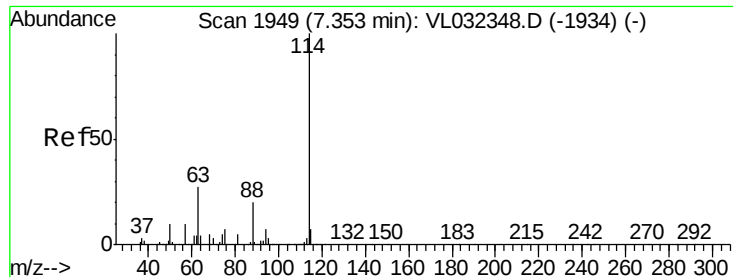
MMDadoda
 8/17/2018 2:06:27 PM



#32
 1,1,1-Trichloroethane
 Concen: 0.53 ppbv
 RT: 6.68 min Scan# 1739
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion:	97	Resp:	149978
Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.9	76.3
61	54.4	41.8	62.6





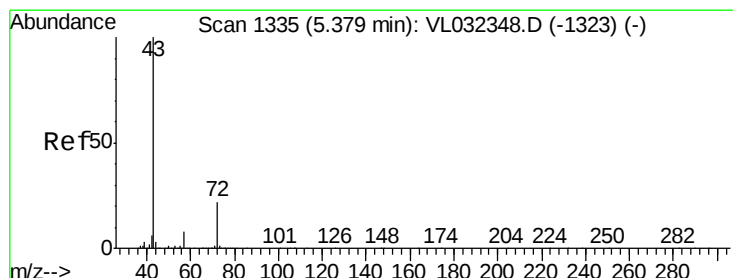
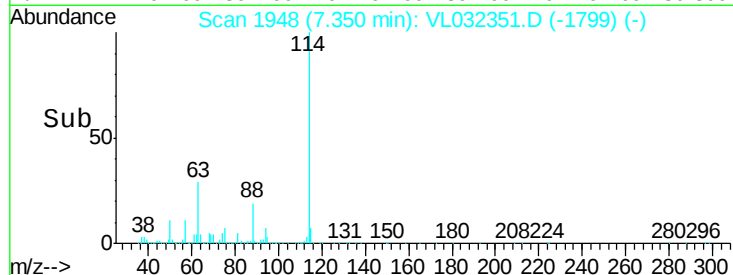
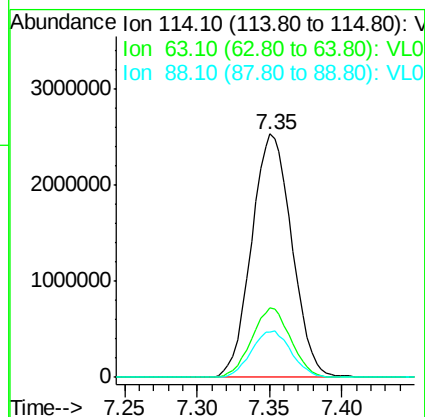
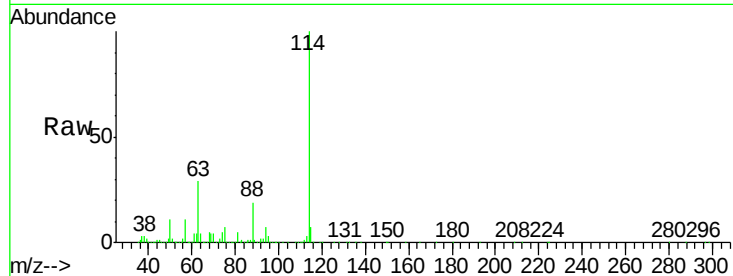
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	19.0	15.3	22.9

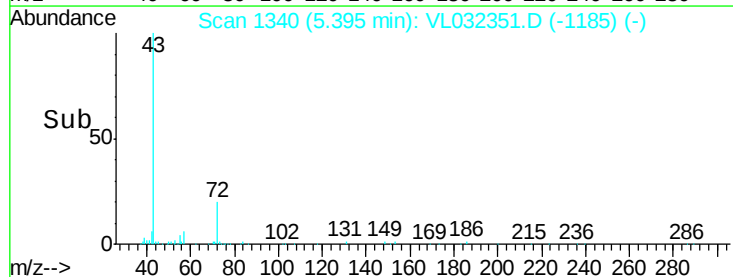
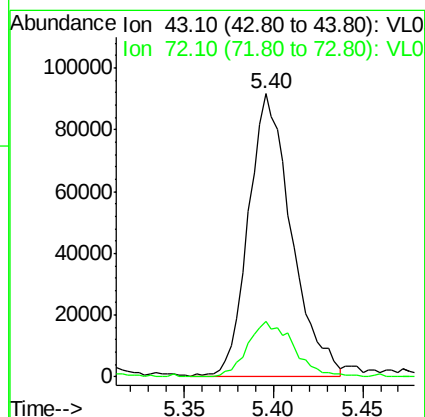
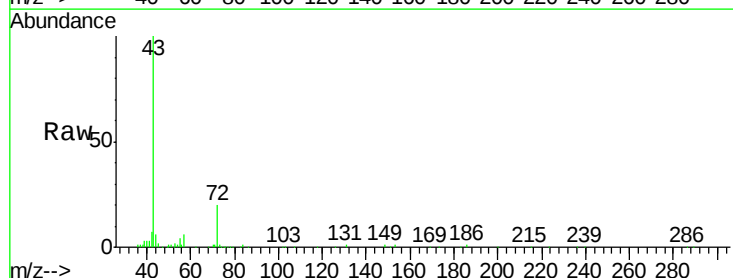
Manual Integrations
 APPROVED

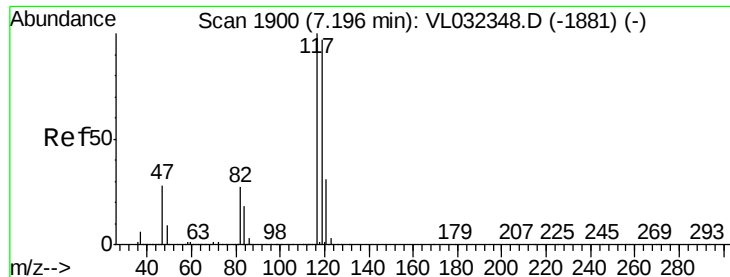
MMDadoda
 8/17/2018 2:06:27 PM



#34
 2-Butanone
 Concen: 0.48 ppbv
 RT: 5.40 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.4	26.2





#35

Carbon Tetrachloride

Concen: 0.52 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. -0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

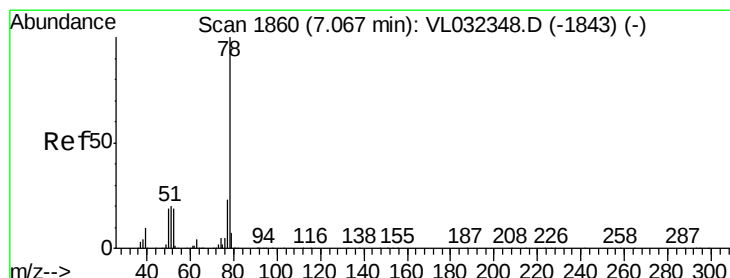
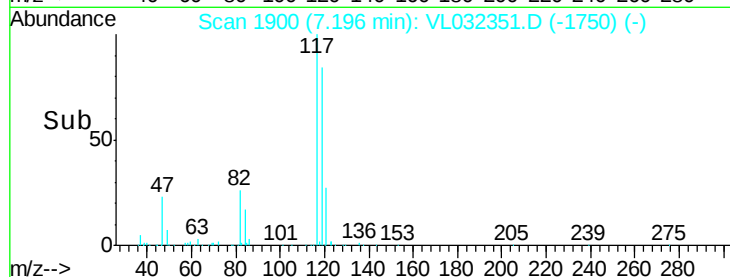
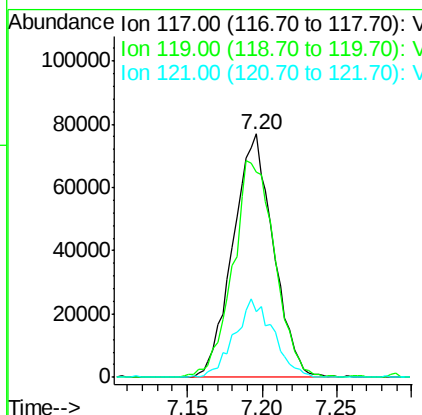
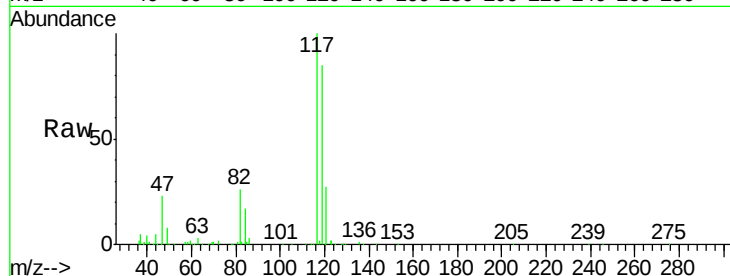
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	144573
Ion Ratio	Lower	Upper	
117	100		
119	84.5	76.1	114.1
121	26.8	24.4	36.6

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:27 PM



#36

Benzene

Concen: 0.44 ppbv

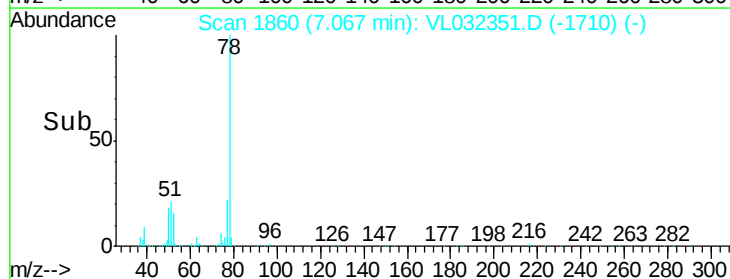
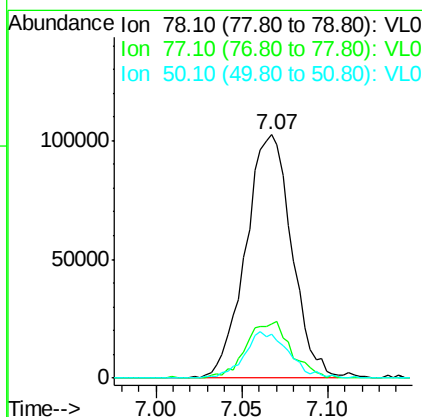
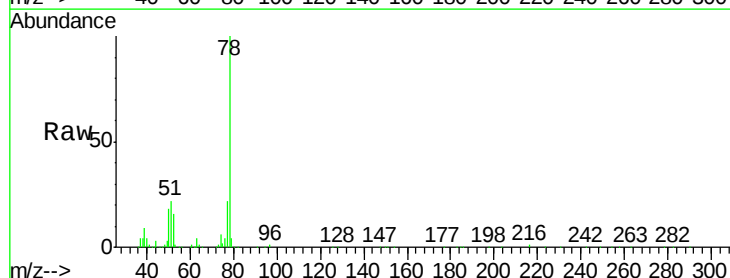
RT: 7.07 min Scan# 1860

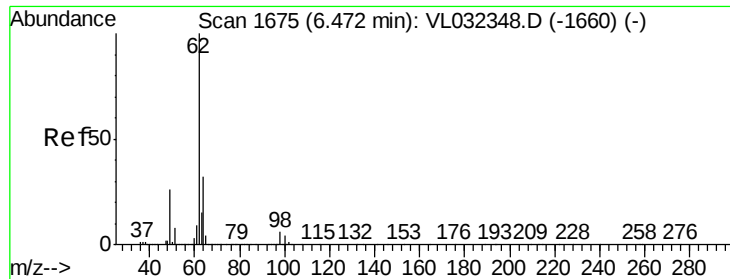
Delta R.T. -0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Tgt Ion:	78	Resp:	189985
Ion Ratio	Lower	Upper	
78	100		
77	22.3	18.4	27.6
50	18.2	15.3	22.9





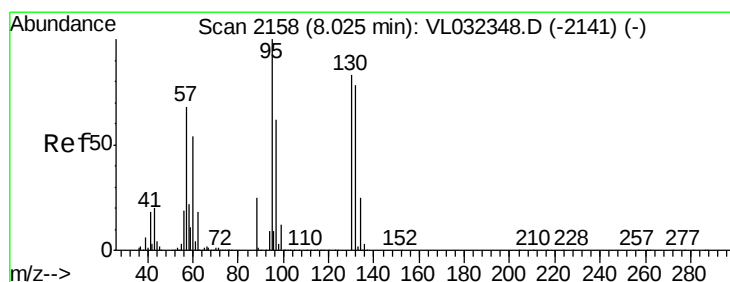
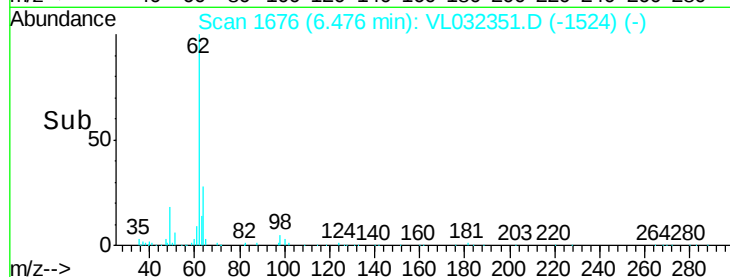
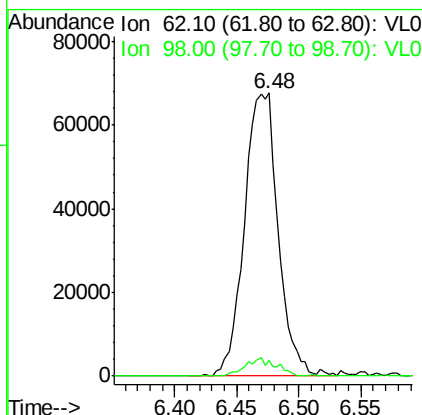
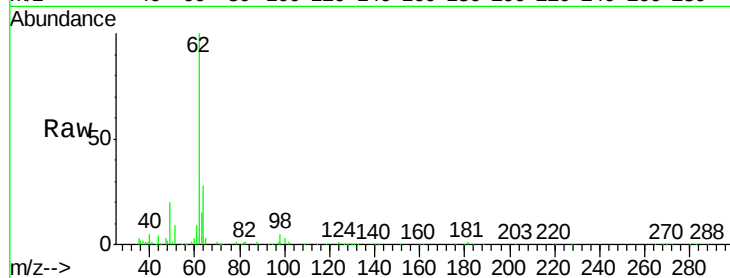
#37
 1,2-Dichloroethane
 Concen: 0.51 ppbv m
 RT: 6.48 min Scan# 1676
 Delta R.T. -0.01 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.1	7.7

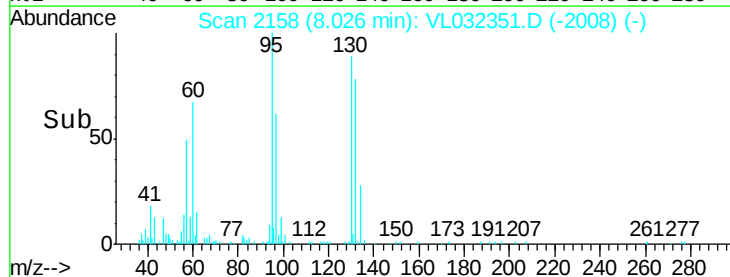
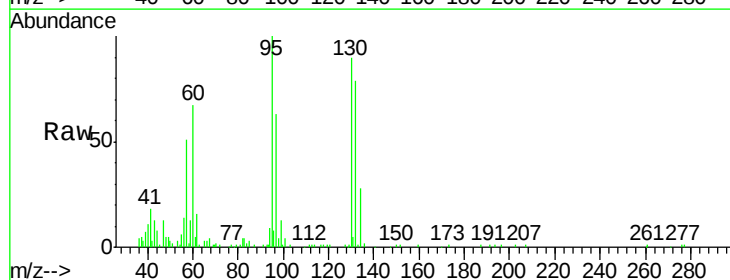
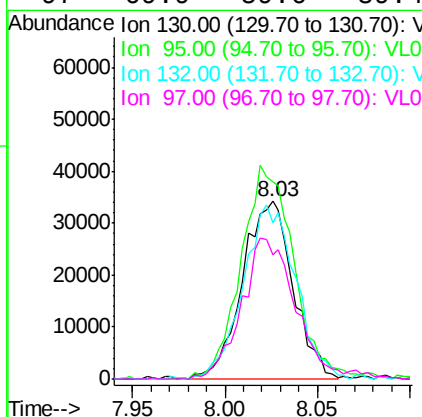
Manual Integrations
 APPROVED

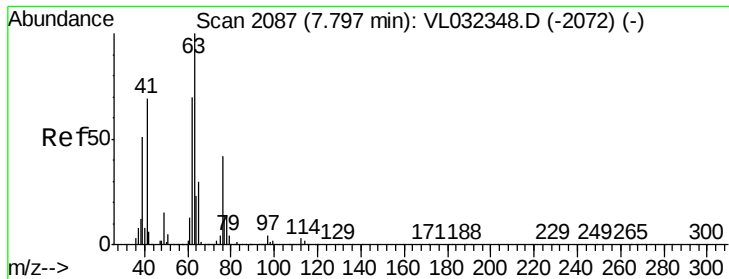
MMDadoda
 8/17/2018 2:06:27 PM



#38
 Trichloroethene
 Concen: 0.39 ppbv
 RT: 8.03 min Scan# 2158
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
130	100		
95	111.3	92.9	139.3
132	89.4	73.0	109.4
97	69.9	59.6	89.4





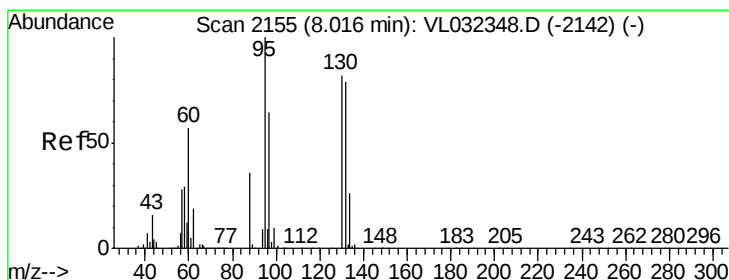
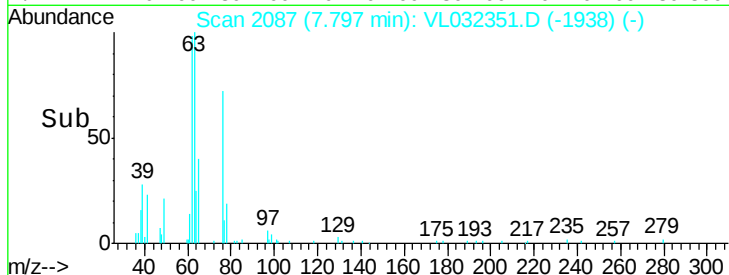
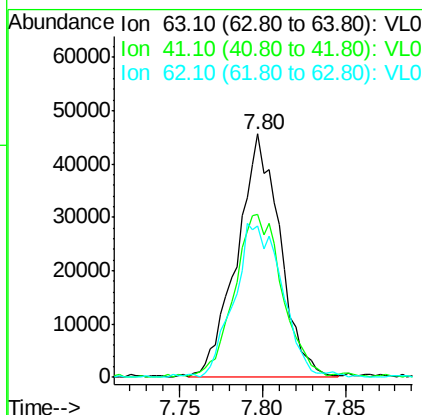
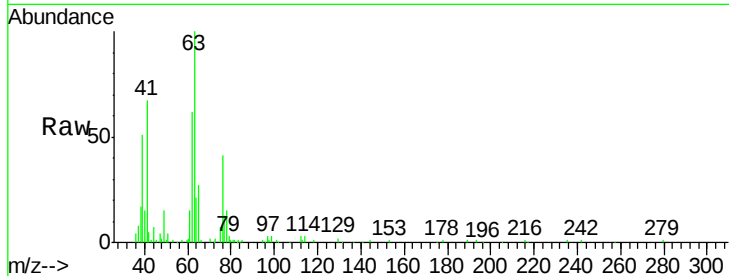
#39
 1,2-Dichloropropane
 Concen: 0.38 ppbv
 RT: 7.80 min Scan# 2087
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	66.2	52.5	78.7
62	60.9	54.6	81.8

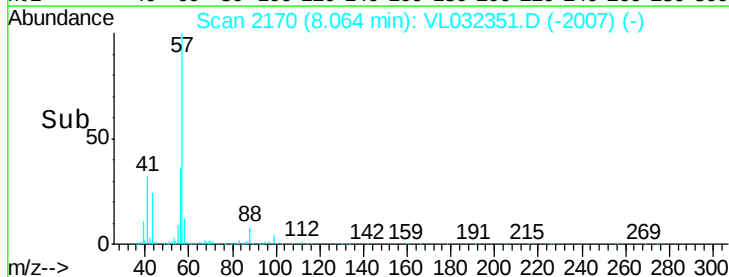
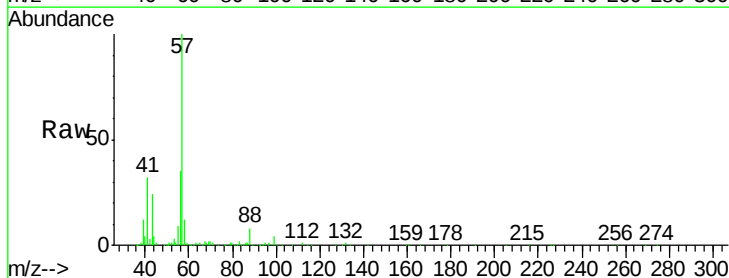
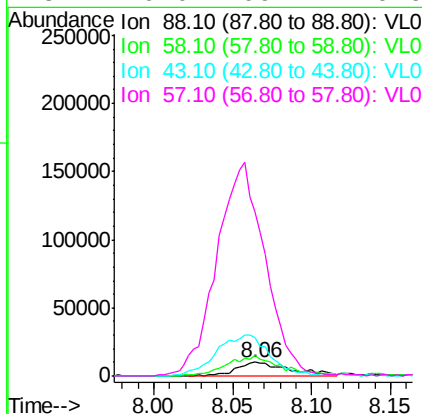
Manual Integrations
 APPROVED

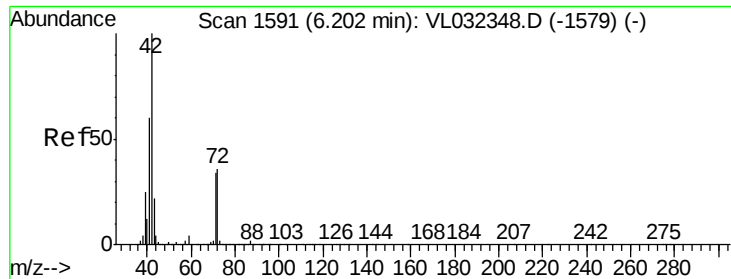
MMDadoda
 8/17/2018 2:06:27 PM



#40
 1,4-Dioxane
 Concen: 0.37 ppbv m
 RT: 8.06 min Scan# 2170
 Delta R.T. 0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	120.5	180.7#
43	0.0	246.2	369.2#
57	0.0	1097.4	1646.2#





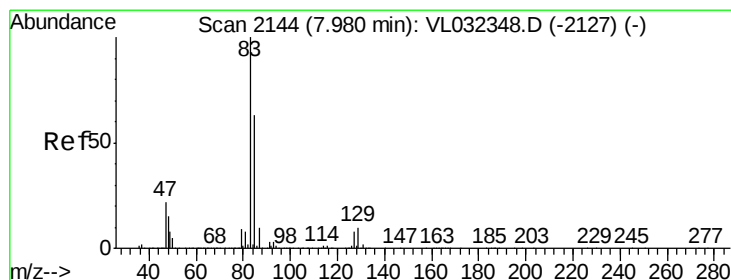
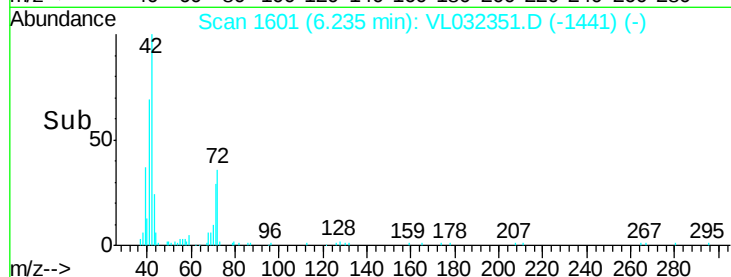
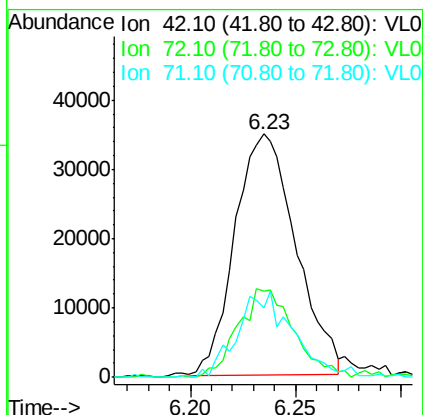
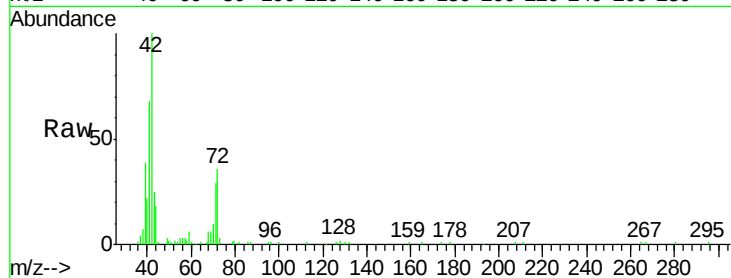
#41
Tetrahydrofuran
Concen: 0.39 ppbv
RT: 6.23 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.9	28.6	42.8
71	33.1	27.8	41.6

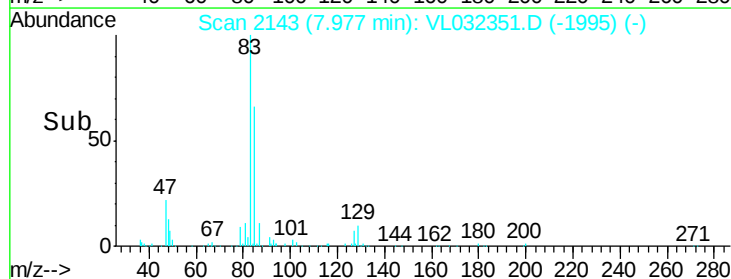
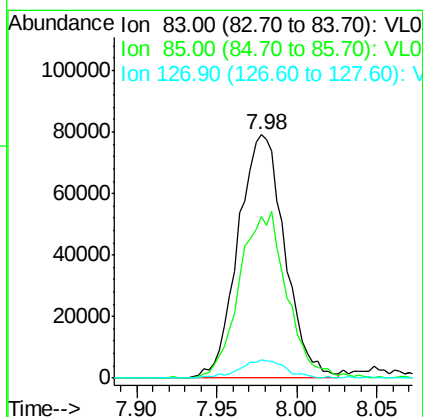
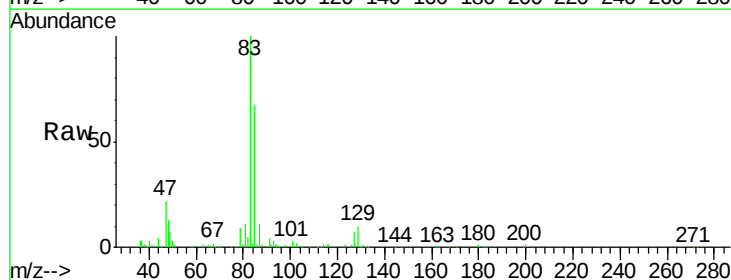
Manual Integrations
APPROVED

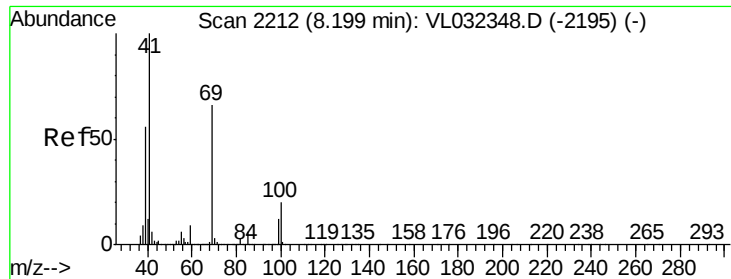
MMDadoda
8/17/2018 2:06:27 PM



#42
Bromodichloromethane
Concen: 0.39 ppbv
RT: 7.98 min Scan# 2143
Delta R.T. -0.03 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	50.7	76.1
127	7.4	6.0	9.0





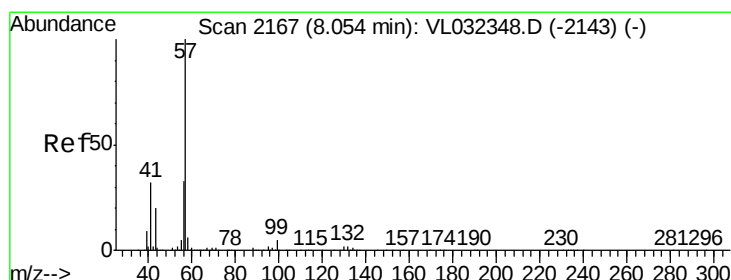
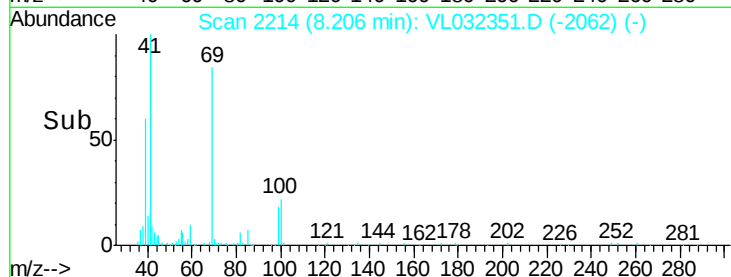
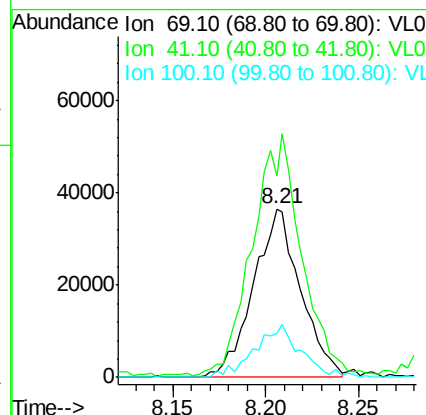
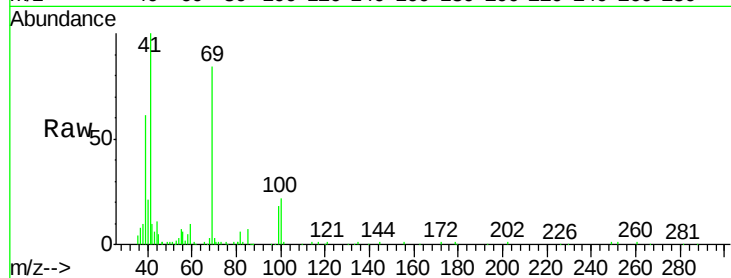
#43
Methvl Methacrilate
Concen: 0.31 ppbv
RT: 8.21 min Scan# 2214
Delta R.T. -0.01 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	152.1	120.6	180.8	
100	30.8	23.2	34.8	

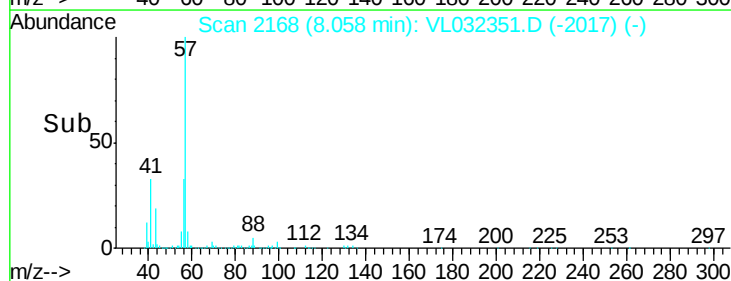
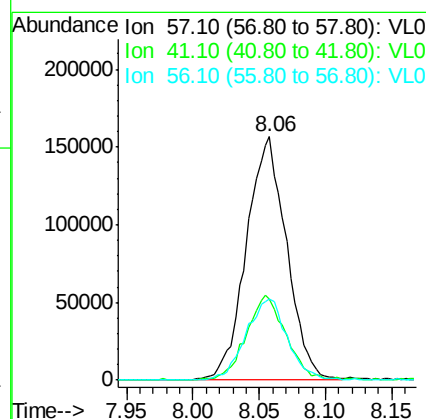
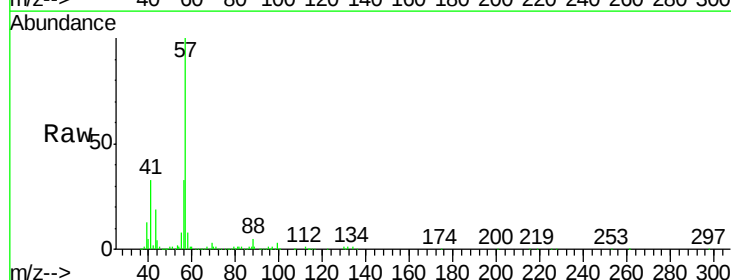
Manual Integrations
APPROVED

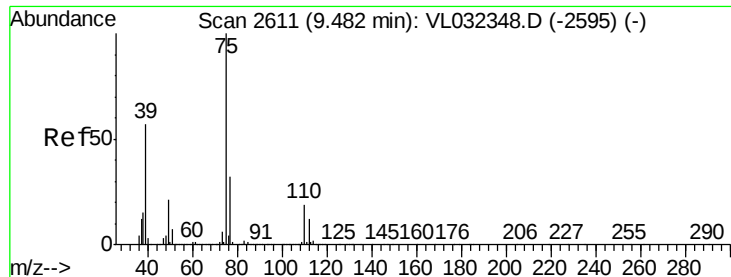
MMDadoda
8/17/2018 2:06:27 PM



#44
2,2,4-Trimethylpentane
Concen: 0.35 ppbv
RT: 8.06 min Scan# 2168
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	34.8	24.3	36.5	
56	34.4	25.4	38.2	





#45

t-1,3-Dichloropropene

Concen: 0.31 ppbv m

RT: 9.48 min Scan# 2610

Delta R.T. -0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 74919

Ion Ratio Lower Upper

75 100

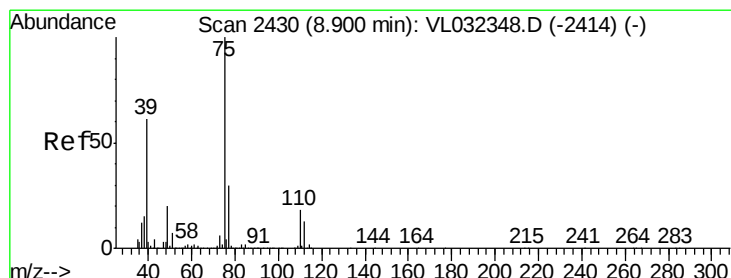
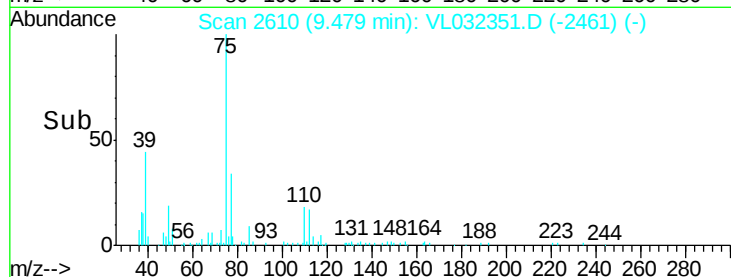
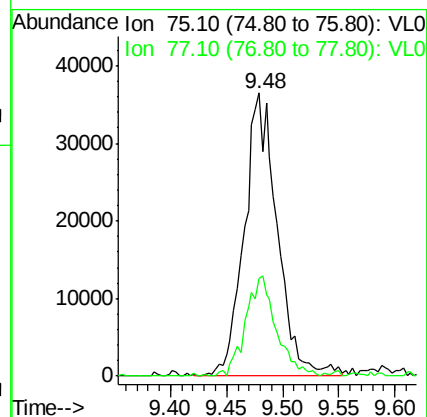
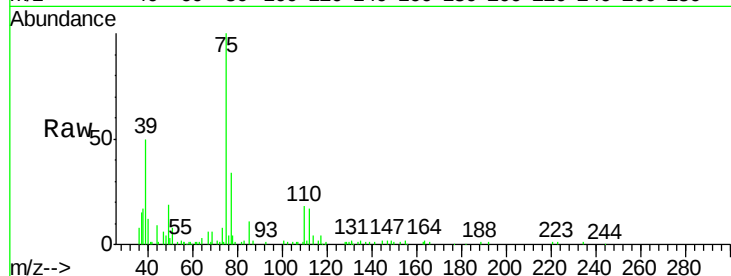
77 34.3 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

8/17/2018 2:06:27 PM



#46

cis-1,3-Dichloropropene

Concen: 0.31 ppbv

RT: 8.90 min Scan# 2429

Delta R.T. -0.03 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

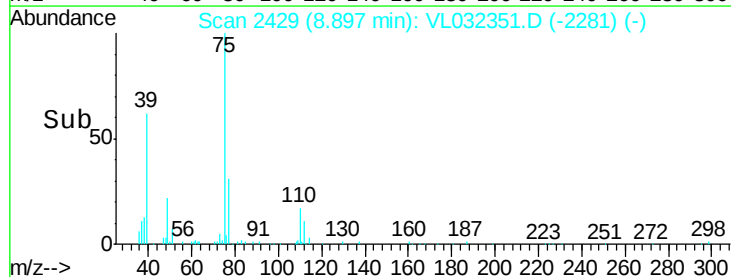
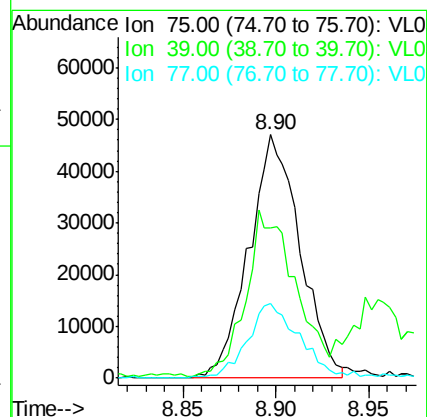
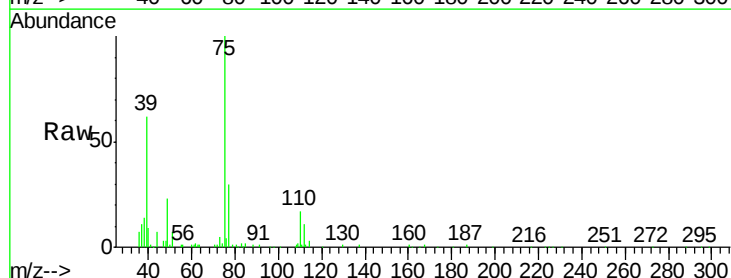
Tgt Ion: 75 Resp: 89950

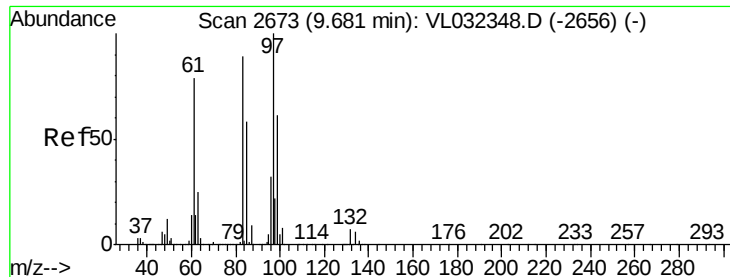
Ion Ratio Lower Upper

75 100

39 61.0 50.9 76.3

77 29.9 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 0.44 ppbv

RT: 9.68 min Scan# 2672

Delta R.T. -0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

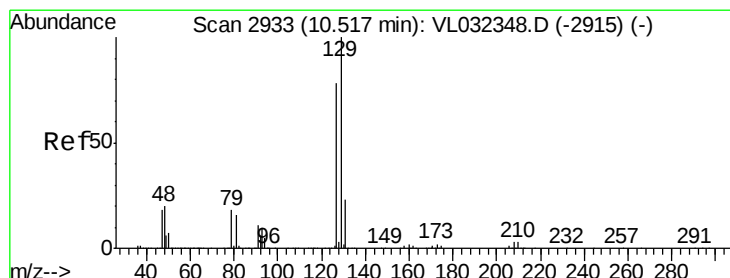
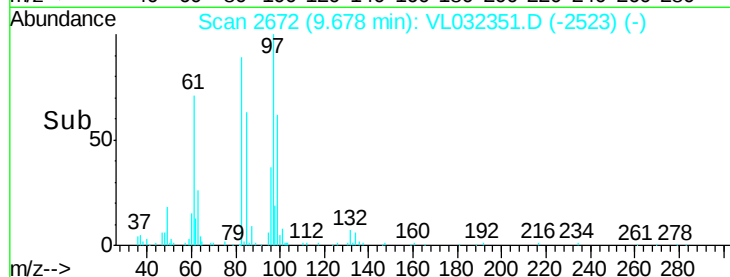
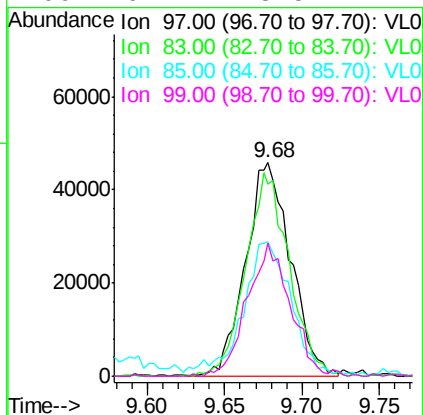
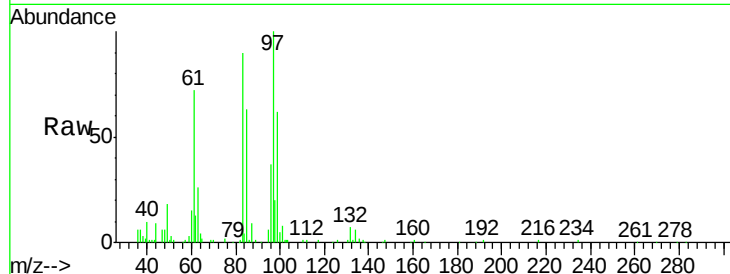
ClientSampleId :

VSTDIC0.5

Tot Ion:	97	Resp:	92749
Ion	Ratio	Lower	Upper
97	100		
83	89.1	73.0	109.6
85	60.2	48.1	72.1
99	62.1	48.5	72.7

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:27 PM



#48

Dibromochloromethane

Concen: 0.37 ppbv

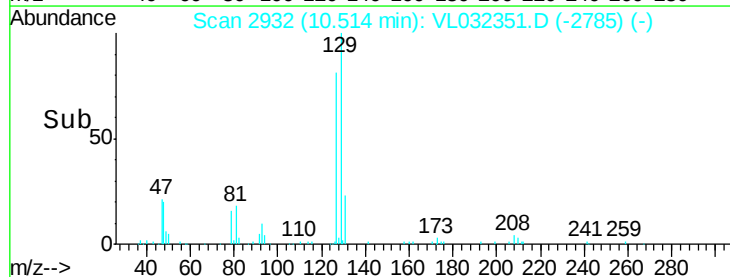
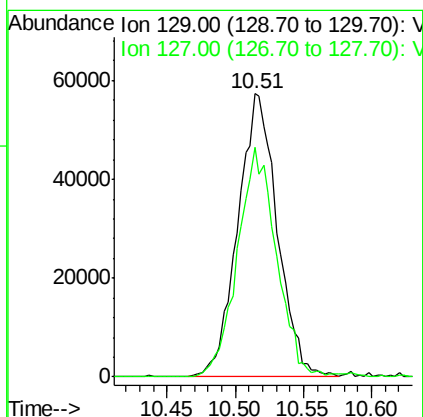
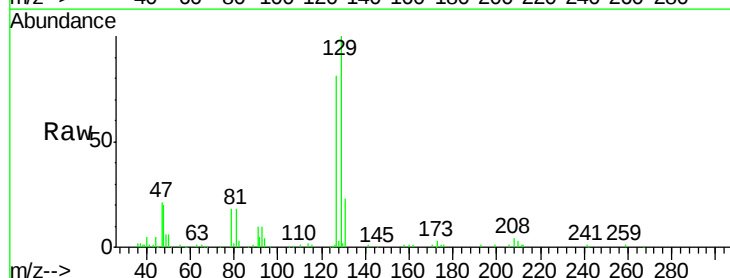
RT: 10.51 min Scan# 2932

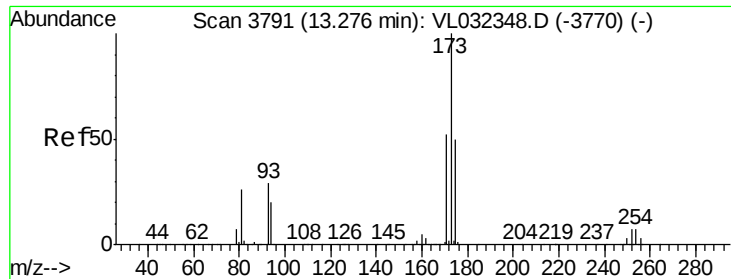
Delta R.T. -0.03 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Tgt Ion:	129	Resp:	115511
Ion	Ratio	Lower	Upper
129	100		
127	80.4	39.5	118.3





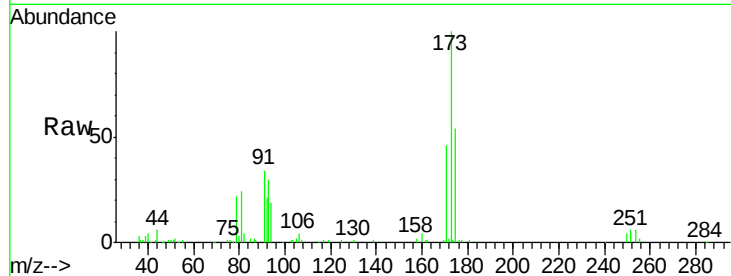
#49
Bromoform
Concen: 0.35 ppbv
RT: 13.27 min Scan# 3788
Delta R.T. -0.03 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

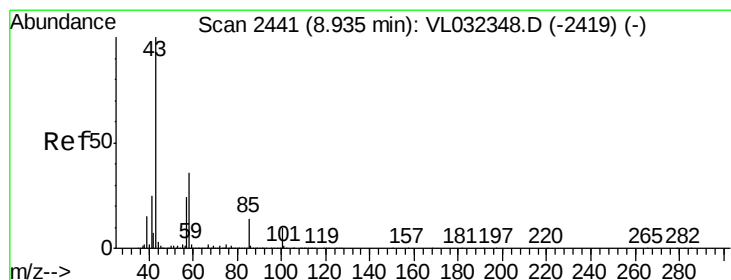
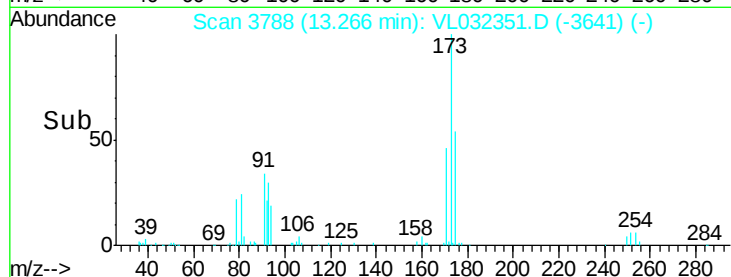
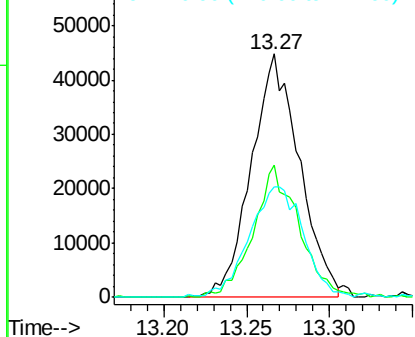
Tot Ion	Ratio	Lower	Upper
173	100		
175	51.8	38.9	58.3
171	51.9	42.2	63.2

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:27 PM

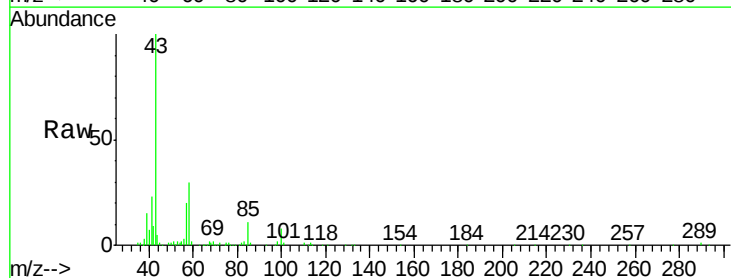


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

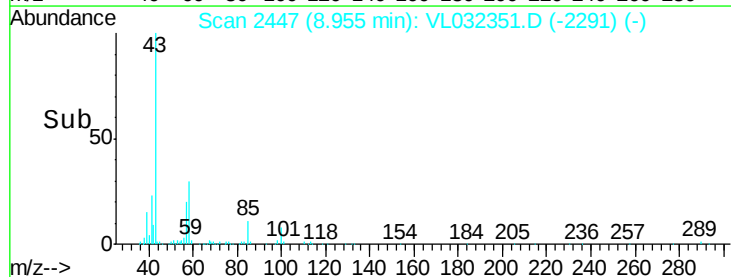
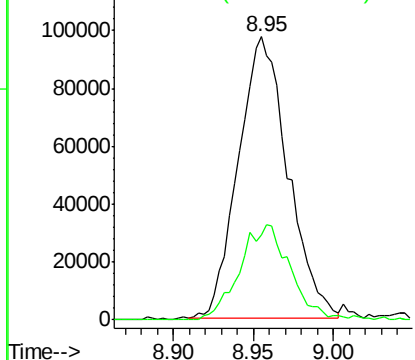


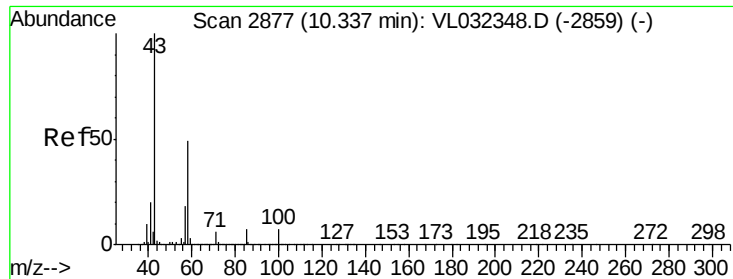
#50
4-Methyl-2-Pentanone
Concen: 0.37 ppbv
RT: 8.95 min Scan# 2447
Delta R.T. 0.00 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.9	43.3



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





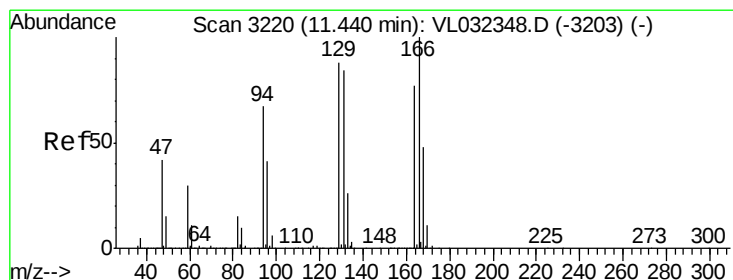
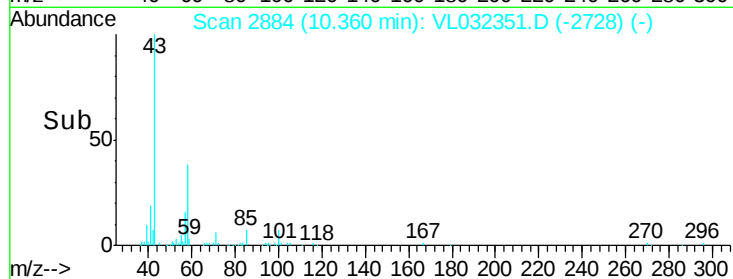
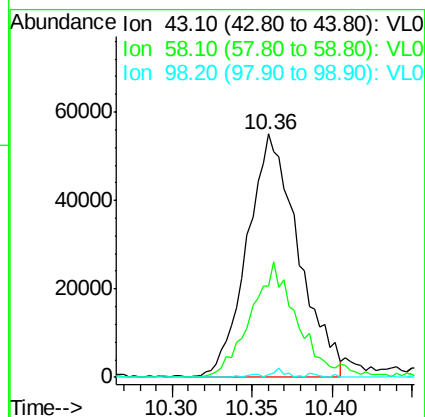
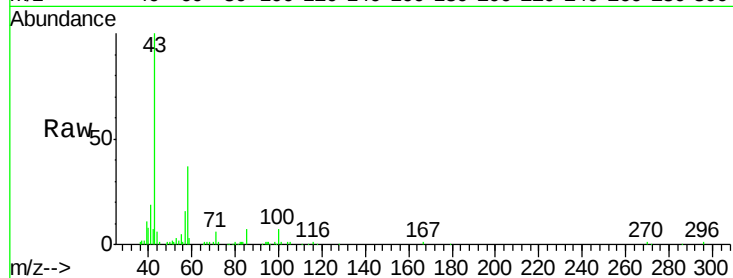
#51
2-Hexanone
Concen: 0.29 ppbv
RT: 10.36 min Scan# 2884
Delta R.T. 0.00 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	44.1	39.1	58.7
98	1.8	0.3	0.5#

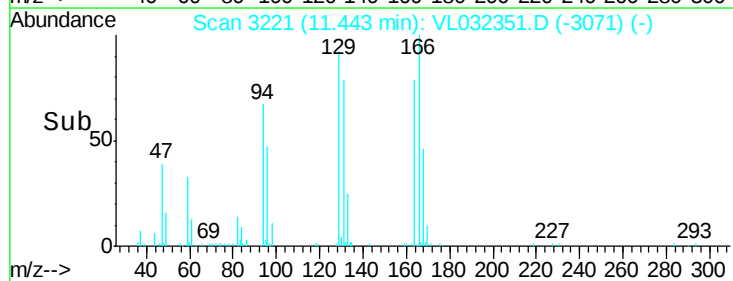
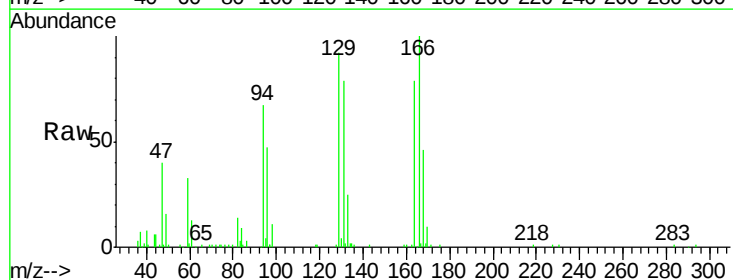
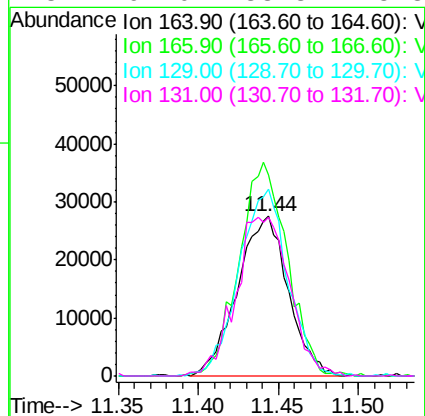
Manual Integrations
APPROVED

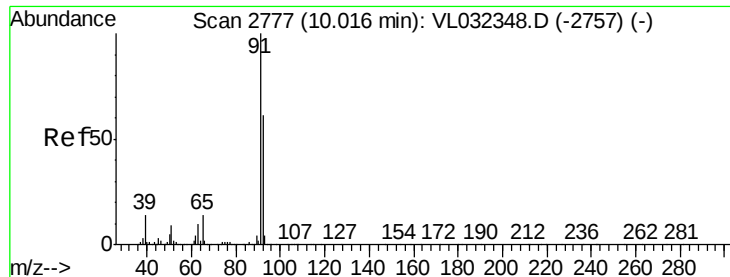
MMDadoda
8/17/2018 2:06:27 PM



#52
Tetrachloroethene
Concen: 0.41 ppbv
RT: 11.44 min Scan# 3221
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.5	100.0	150.0
129	115.6	87.9	131.9
131	97.0	83.8	125.8





#53

Toluene

Concen: 0.33 ppbv

RT: 10.02 min Scan# 2777

Delta R.T. -0.02 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 170831

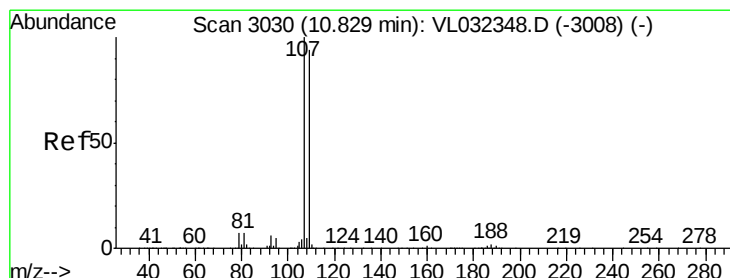
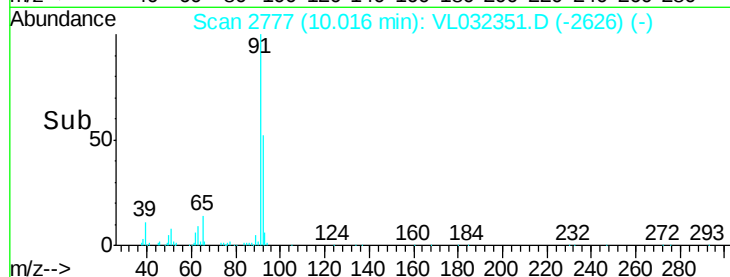
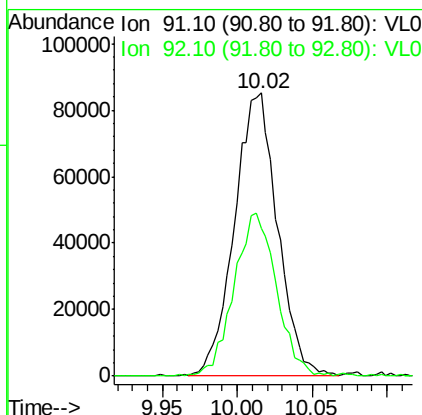
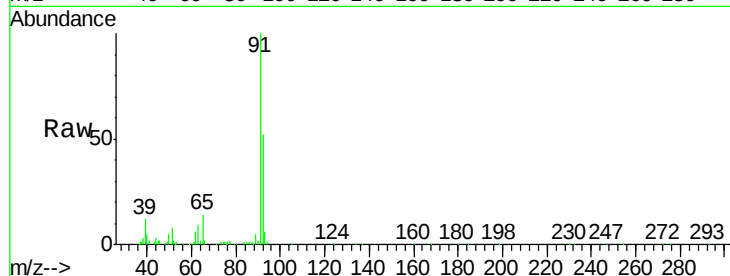
Ion Ratio Lower Upper

91 100

92 57.0 48.6 72.8

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:27 PM



#54

1,2-Dibromoethane

Concen: 0.37 ppbv

RT: 10.83 min Scan# 3029

Delta R.T. -0.03 min

Lab File: VL032351.D

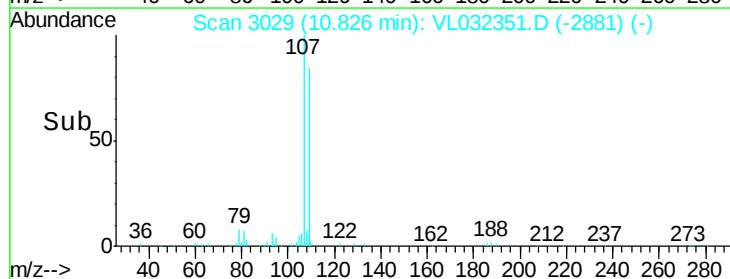
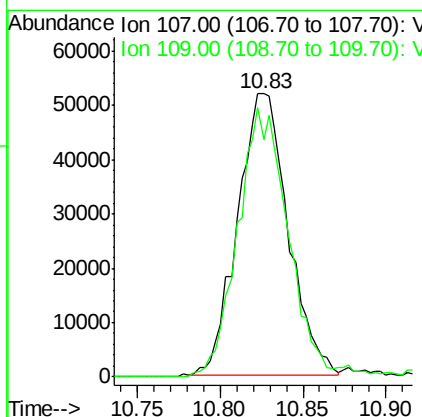
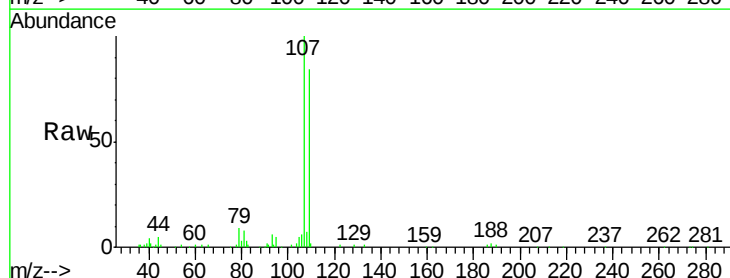
Acq: 15 Aug 2018 11:56

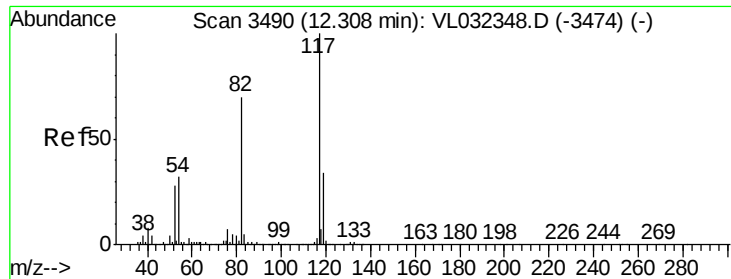
Tgt Ion: 107 Resp: 109362

Ion Ratio Lower Upper

107 100

109 84.1 74.1 111.1





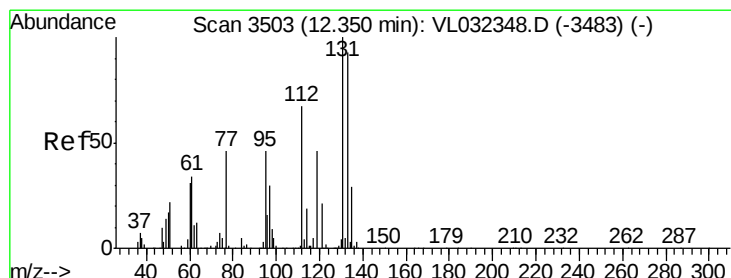
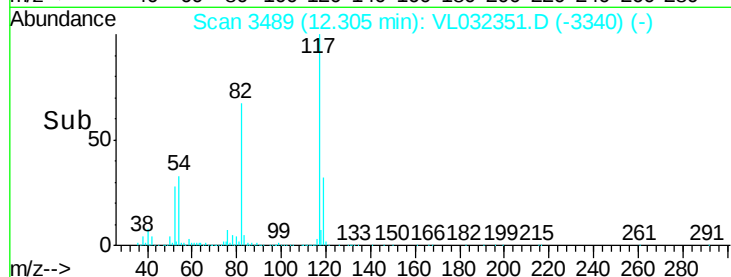
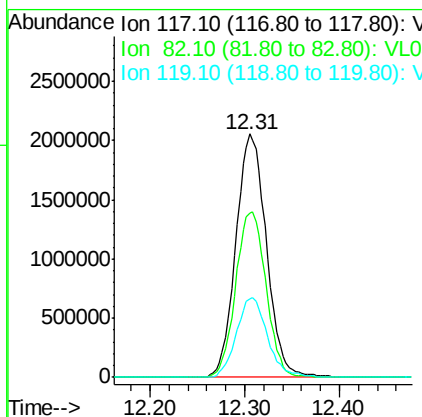
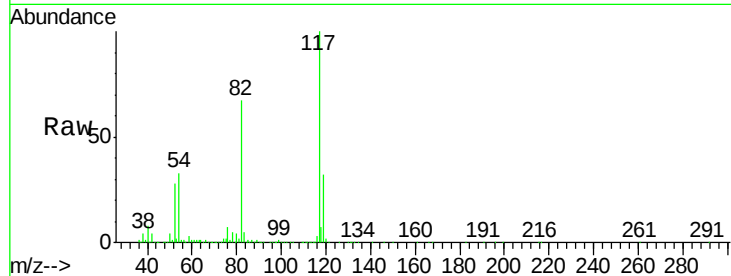
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.31 min Scan# 3489
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:117 Resp: 4620083
Ion Ratio Lower Upper
117 100
82 67.7 52.6 78.8
119 33.5 25.7 38.5

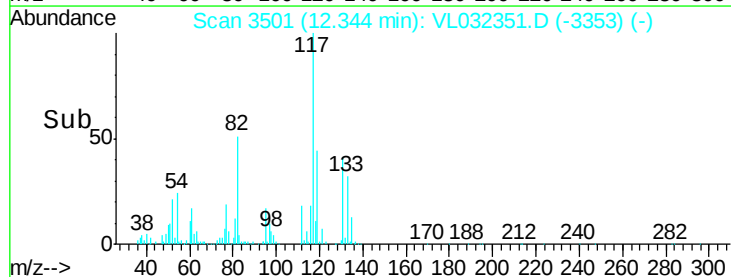
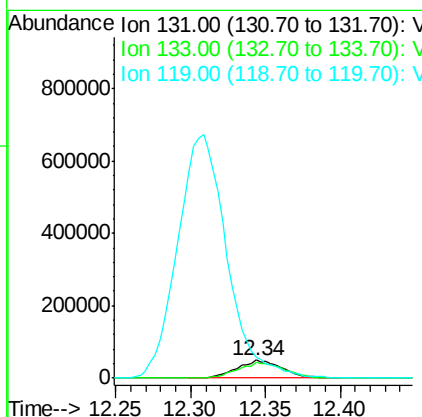
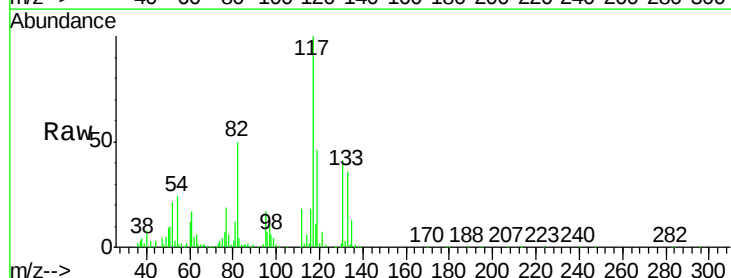
Manual Integrations
APPROVED

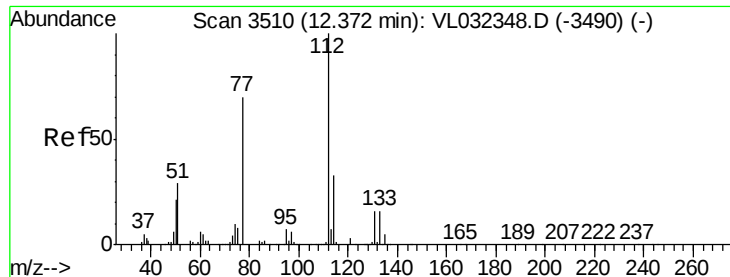
MMDadoda
8/17/2018 2:06:27 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.54 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.03 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion:131 Resp: 102272
Ion Ratio Lower Upper
131 100
133 90.8 75.8 113.6
119 1511.4 48.1 72.1#





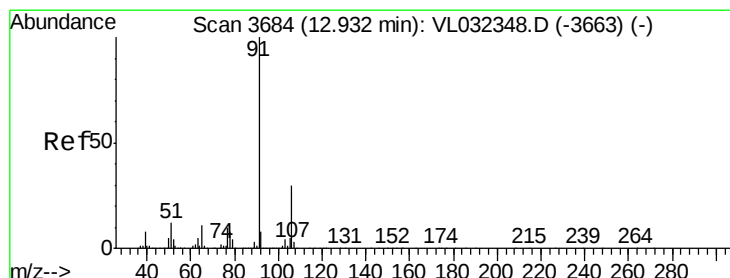
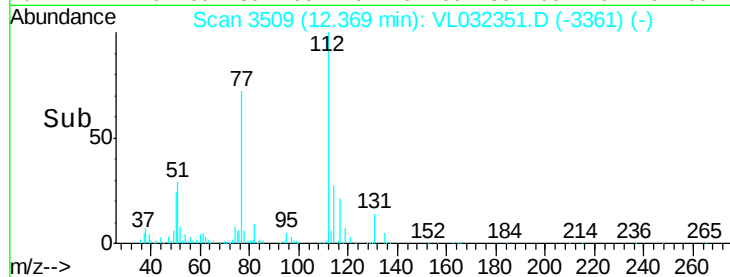
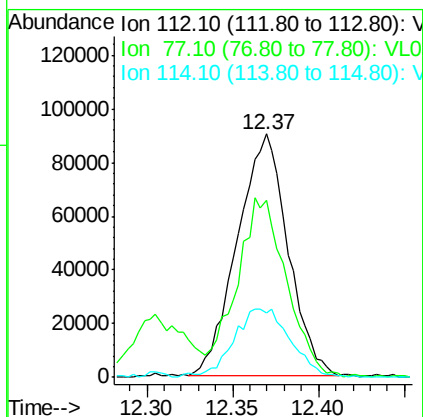
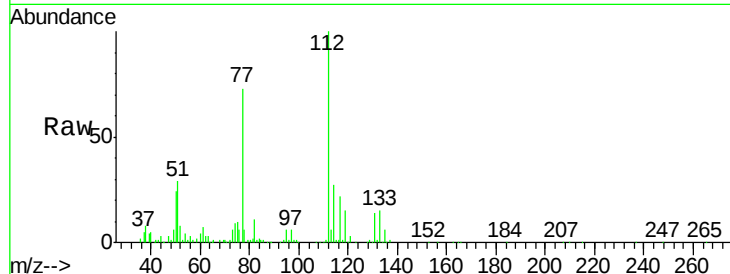
#57
Chlorobenzene
Concen: 0.51 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.03 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.4	56.5	84.7
114	26.0	28.4	34.7#

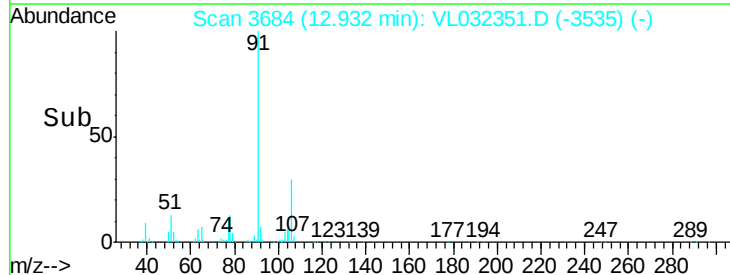
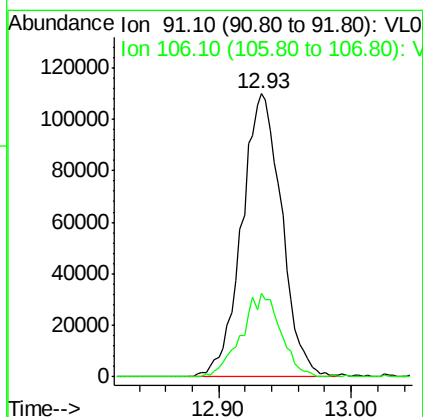
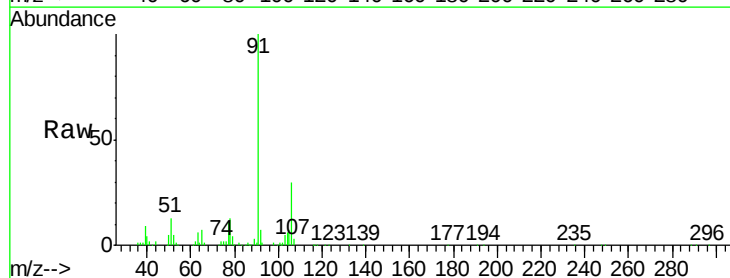
Manual Integrations
APPROVED

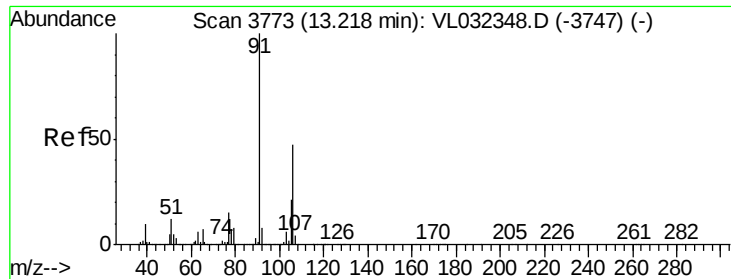
MMDadoda
8/17/2018 2:06:27 PM



#58
Ethyl Benzene
Concen: 0.40 ppbv
RT: 12.93 min Scan# 3684
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	25.0	37.4





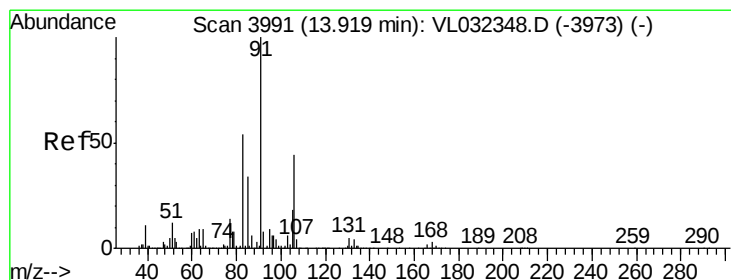
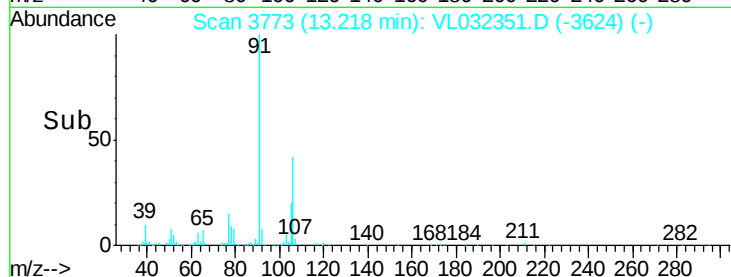
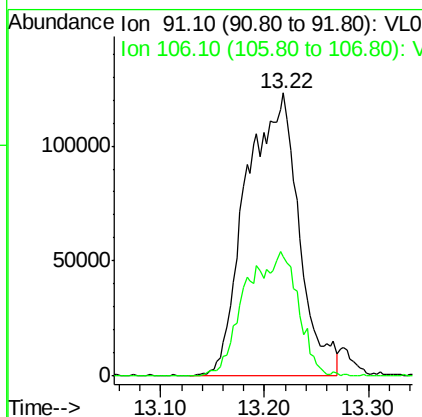
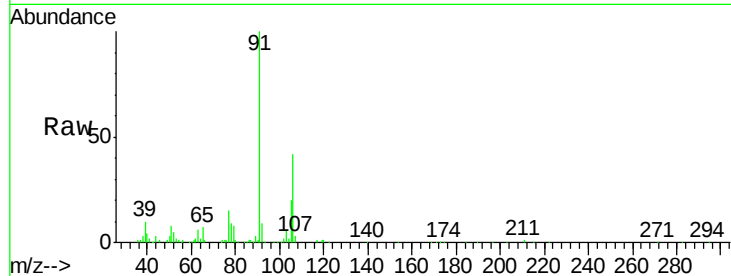
#59
m/p-Xylene
Concen: 0.88 ppbv m
RT: 13.22 min Scan# 3773
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 433002
Ion Ratio Lower Upper
91 100
106 44.2 36.4 54.6

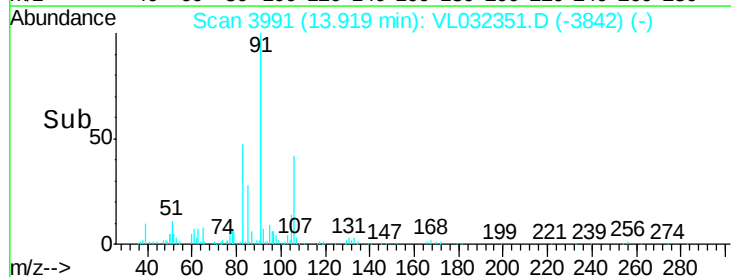
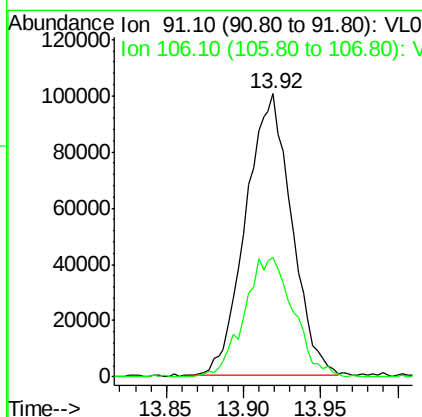
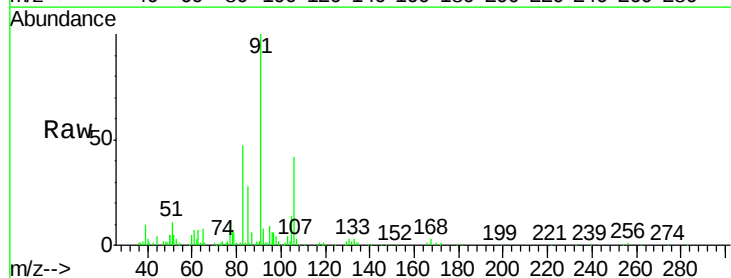
Manual Integrations
APPROVED

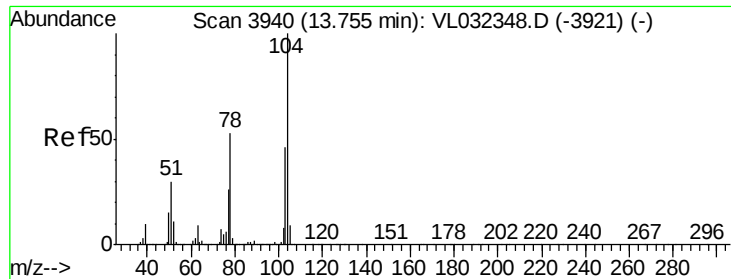
MMDadoda
8/17/2018 2:06:27 PM



#60
o-Xylene
Concen: 0.43 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion: 91 Resp: 206490
Ion Ratio Lower Upper
91 100
106 45.7 22.4 67.0





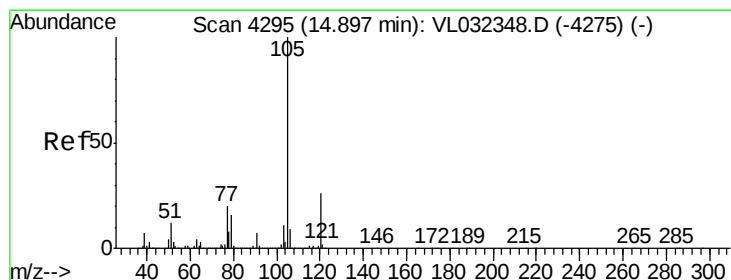
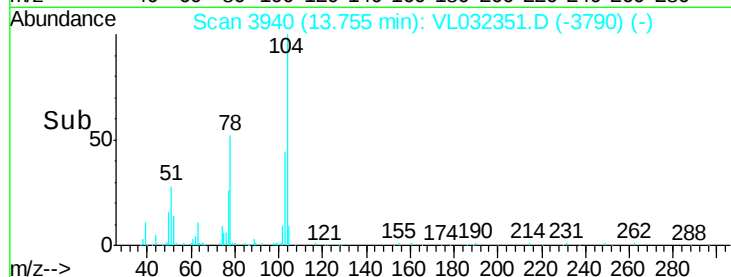
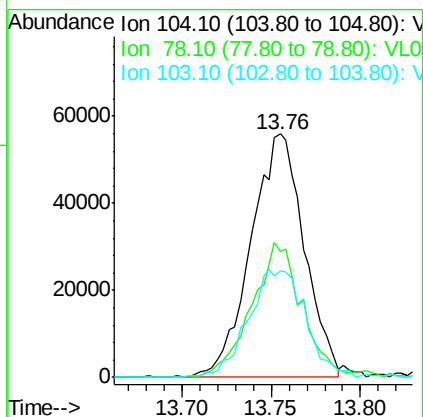
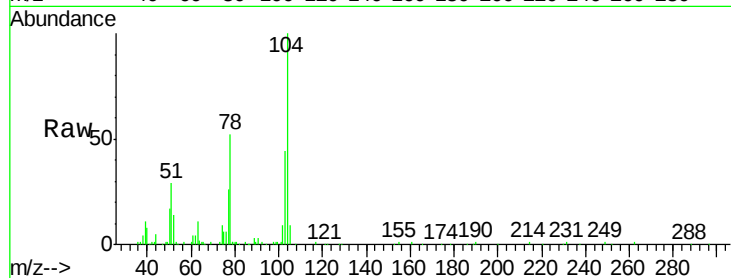
#61
Stvrene
Concen: 0.33 ppbv
RT: 13.76 min Scan# 3940
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.9	42.6	63.8
103	48.1	38.0	57.0

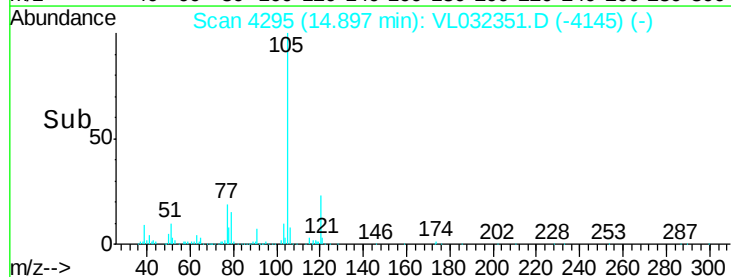
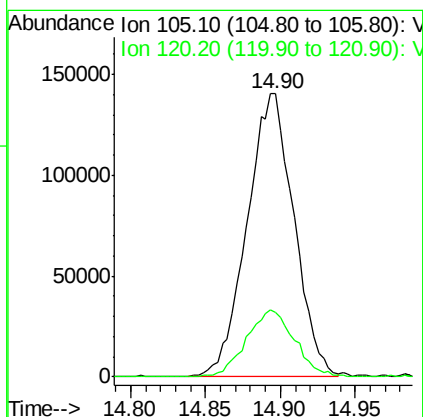
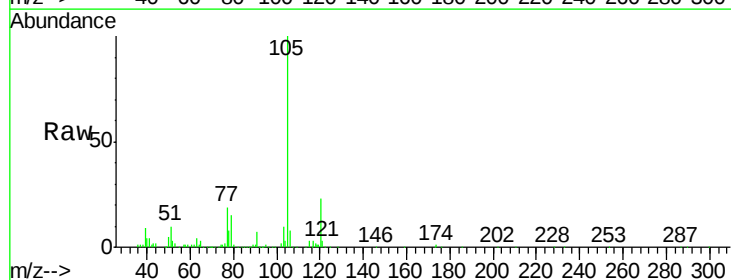
Manual Integrations
APPROVED

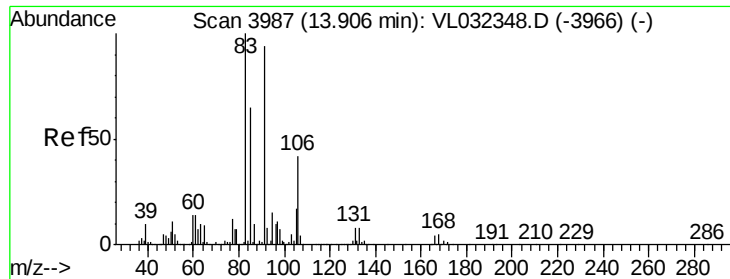
MMDadoda
8/17/2018 2:06:27 PM



#62
Isopropylbenzene
Concen: 0.45 ppbv
RT: 14.90 min Scan# 4295
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.4	20.4	30.6





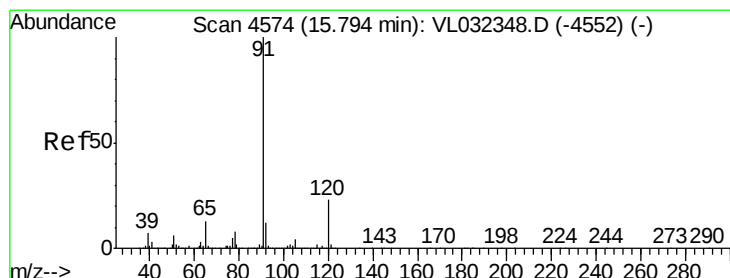
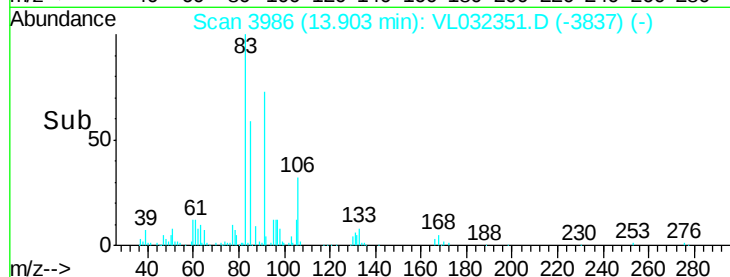
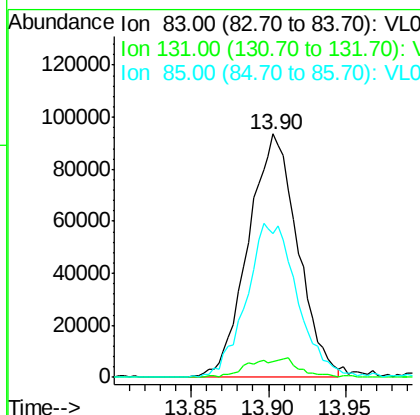
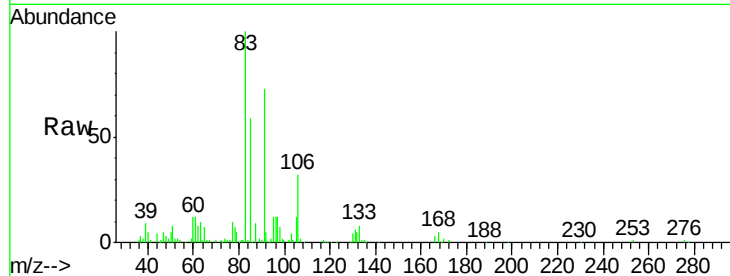
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.53 ppbv
 RT: 13.90 min Scan# 3986
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
83	100	208382		
131	8.3	4.3	12.8	
85	66.3	32.6	97.7	

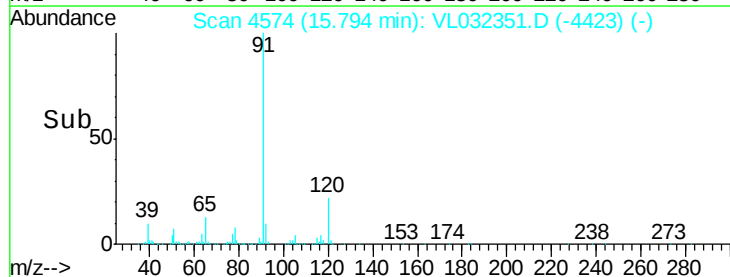
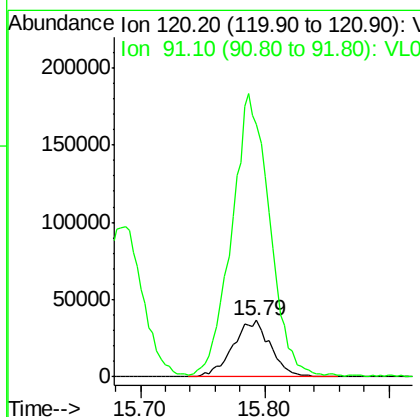
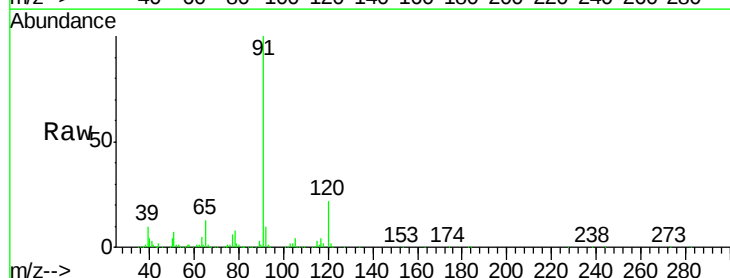
Manual Integrations
 APPROVED

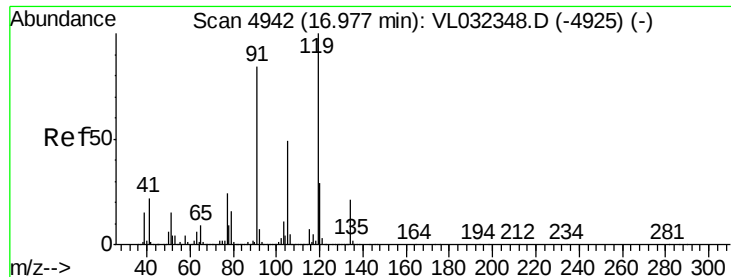
MMDadoda
 8/17/2018 2:06:27 PM



#64
 n-propylbenzene
 Concen: 0.43 ppbv m
 RT: 15.79 min Scan# 4574
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	76795		
91	510.1	381.8	572.8	





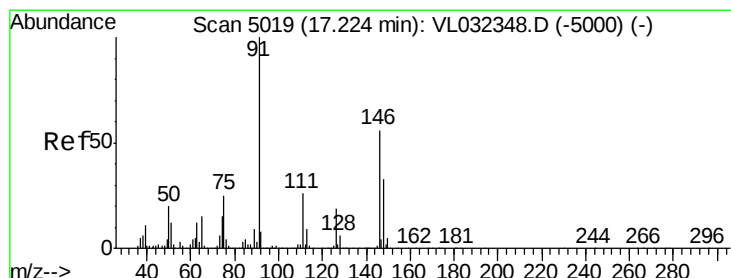
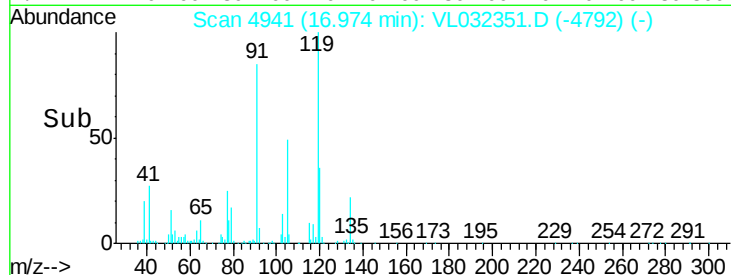
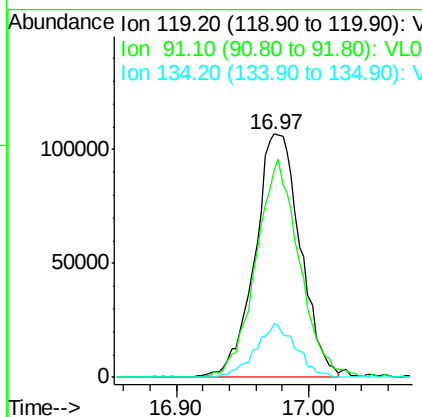
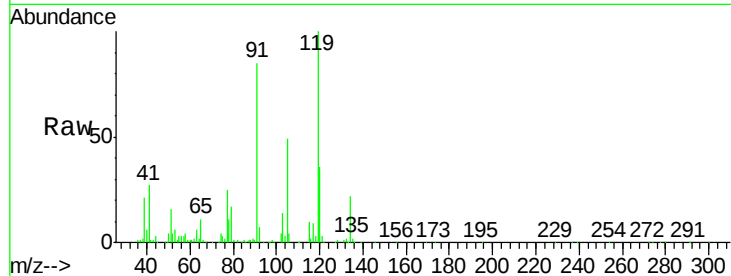
#65
tert-Butylbenzene
Concen: 0.44 ppbv
RT: 16.97 min Scan# 4941
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
119	100		
91	85.8	67.5	101.3
134	20.1	15.8	23.6

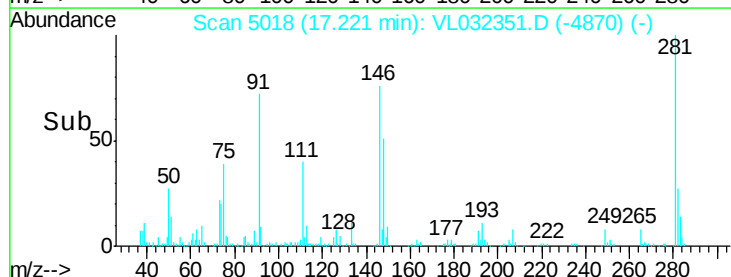
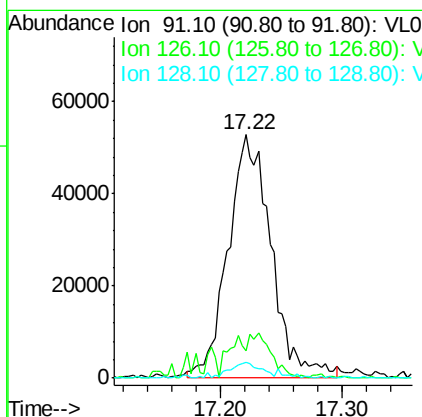
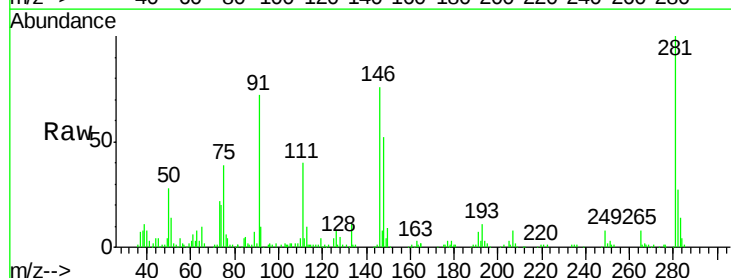
Manual Integrations
APPROVED

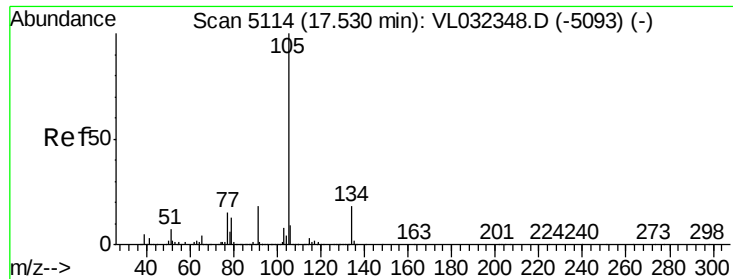
MMDadoda
8/17/2018 2:06:27 PM



#66
Benzyl Chloride
Concen: 0.37 ppbv m
RT: 17.22 min Scan# 5018
Delta R.T. -0.03 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.7	20.5#
128	6.0	4.3	6.5





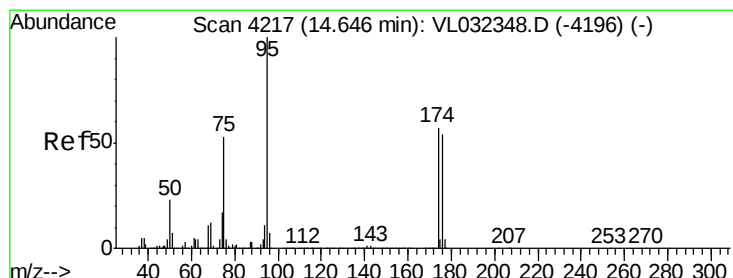
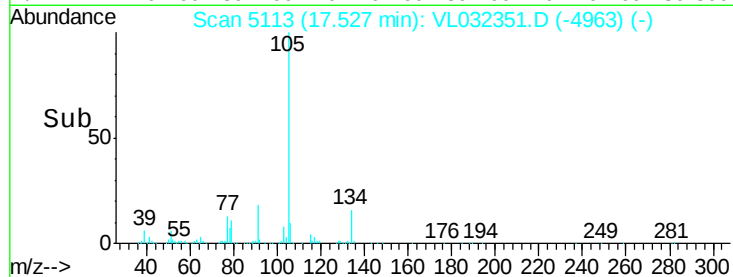
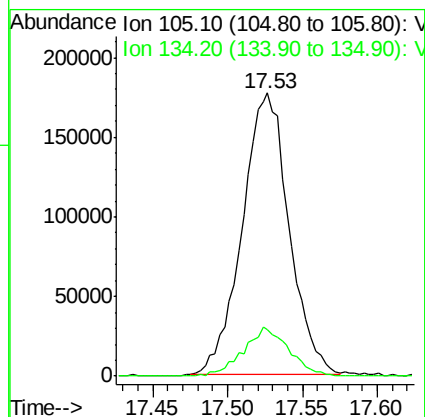
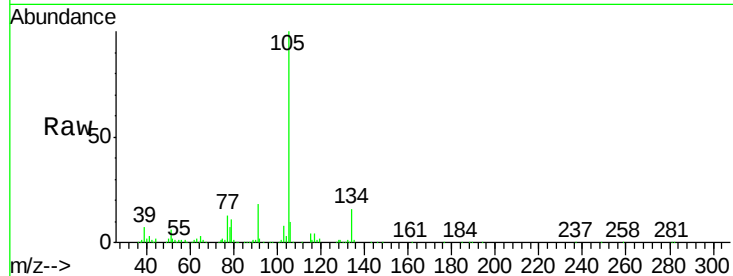
#67
 sec-Butylbenzene
 Concen: 0.44 ppbv
 RT: 17.53 min Scan# 5113
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
134	16.8	14.2	21.4

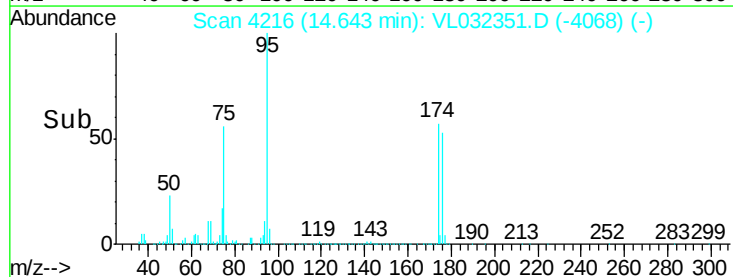
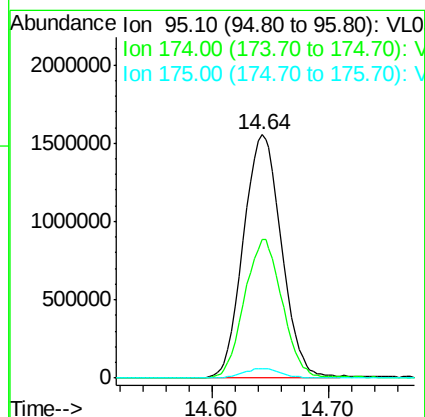
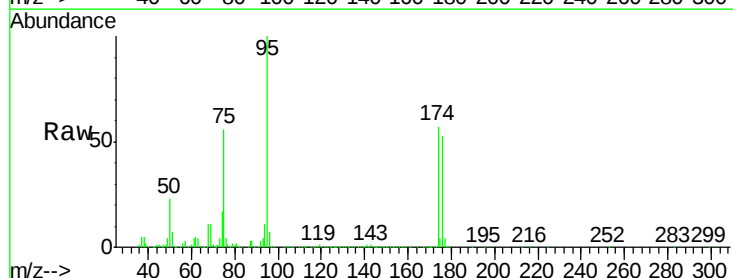
Manual Integrations
 APPROVED

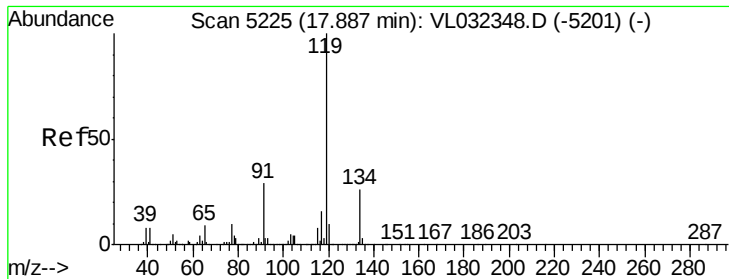
MMDadoda
 8/17/2018 2:06:27 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.91 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.03 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
95	100		
174	57.3	45.5	68.3
175	4.1	3.3	4.9





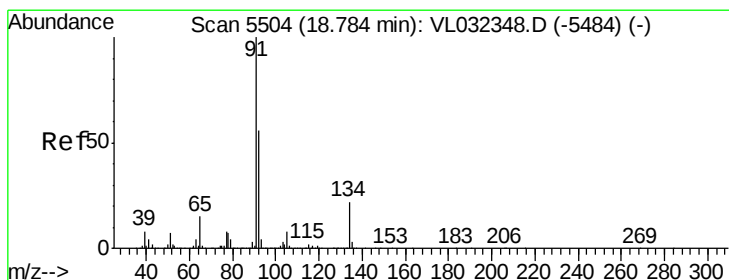
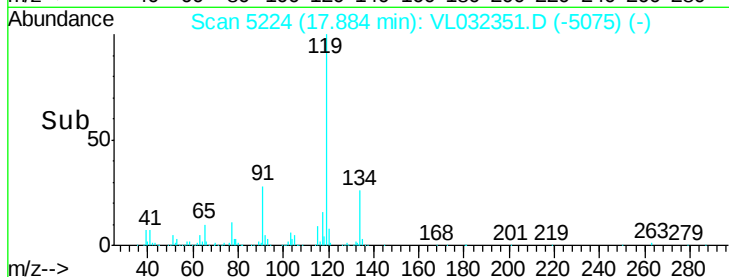
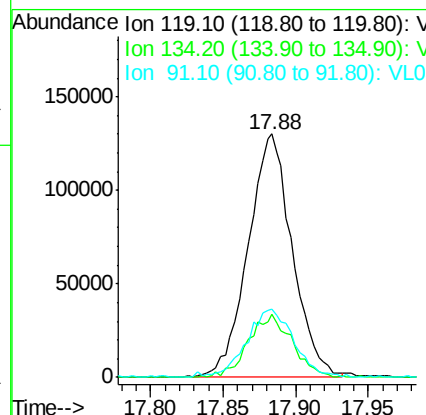
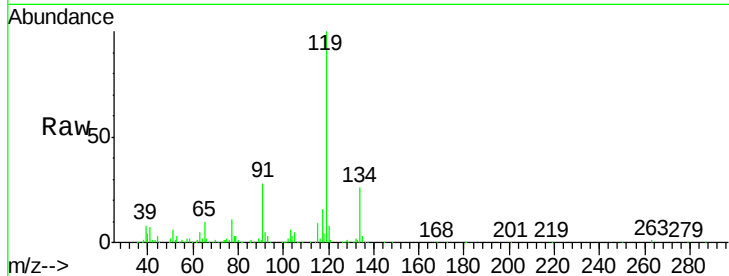
#69
p-Isopropyltoluene
Concen: 0.40 ppbv
RT: 17.88 min Scan# 5224
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	272435		
134	26.1	20.3	30.5	
91	30.8	23.8	35.6	

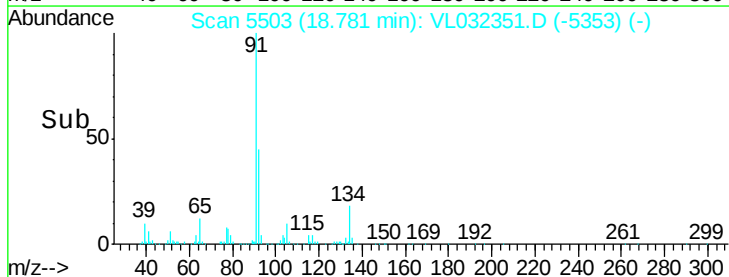
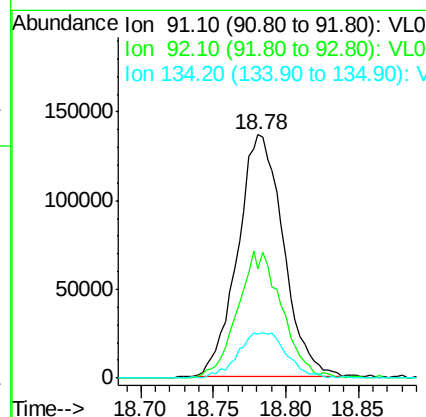
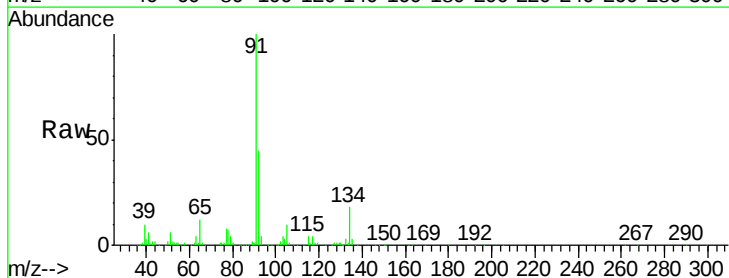
Manual Integrations
APPROVED

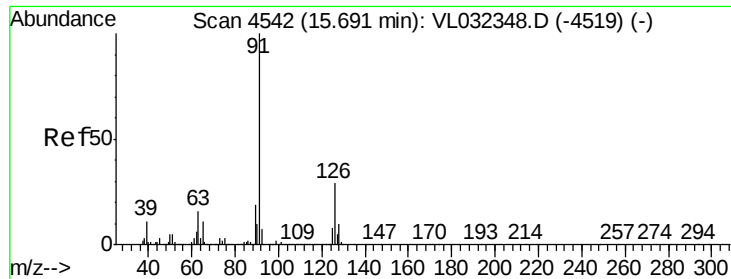
MMDadoda
8/17/2018 2:06:27 PM



#70
n-Butylbenzene
Concen: 0.38 ppbv
RT: 18.78 min Scan# 5503
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	296882		
92	51.5	44.2	66.4	
134	20.3	17.4	26.2	





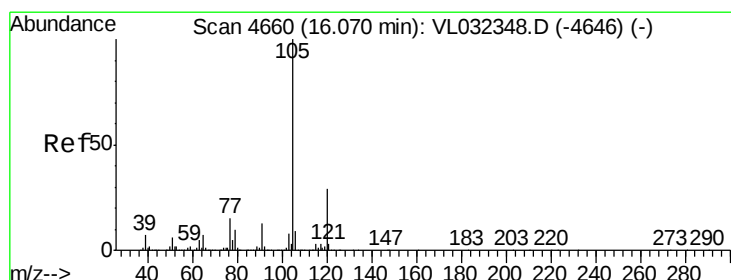
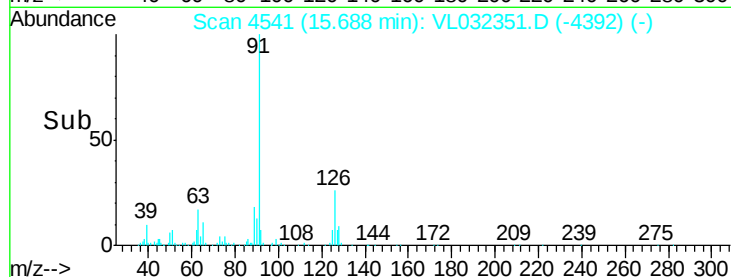
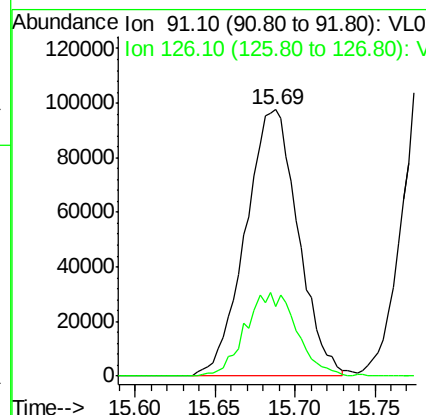
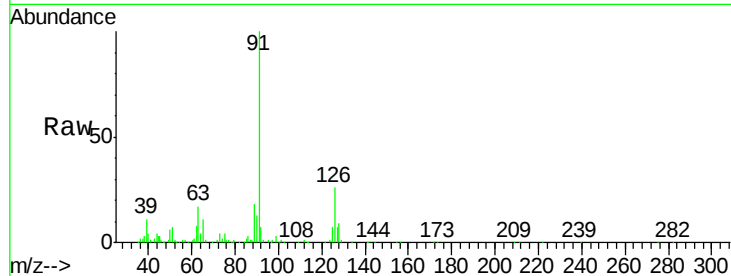
#71
2-Chlorotoluene
Concen: 0.41 ppbv
RT: 15.69 min Scan# 4541
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
126	31.0	11.8	47.0

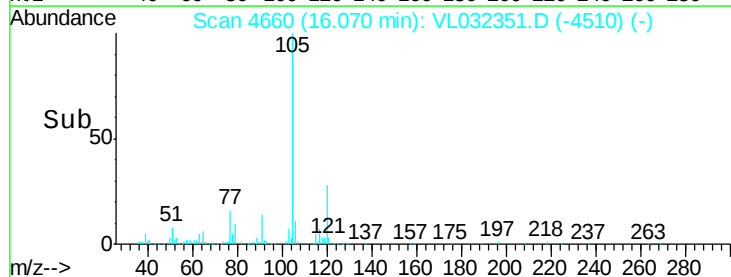
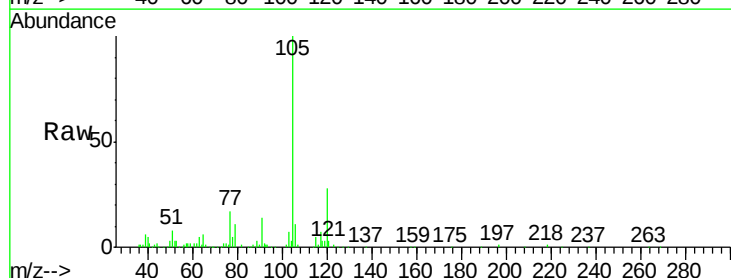
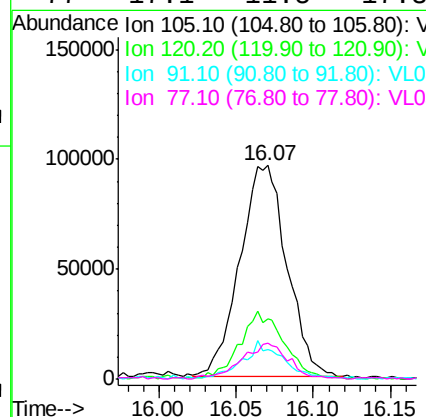
Manual Integrations
APPROVED

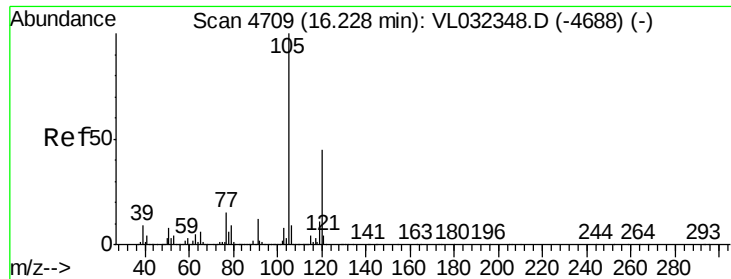
MMDadoda
8/17/2018 2:06:27 PM



#72
4-Ethyltoluene
Concen: 0.38 ppbv
RT: 16.07 min Scan# 4660
Delta R.T. -0.02 min
Lab File: VL032351.D
Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.7	23.1	34.7
91	15.7	10.0	15.0#
77	17.1	11.5	17.3





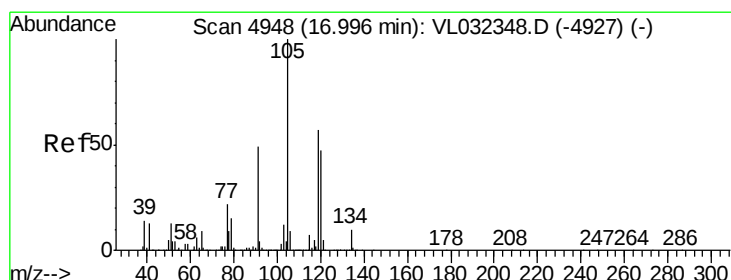
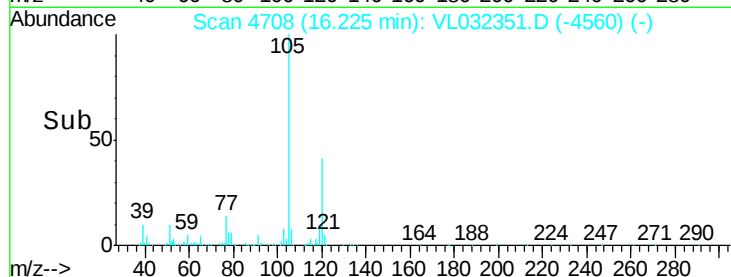
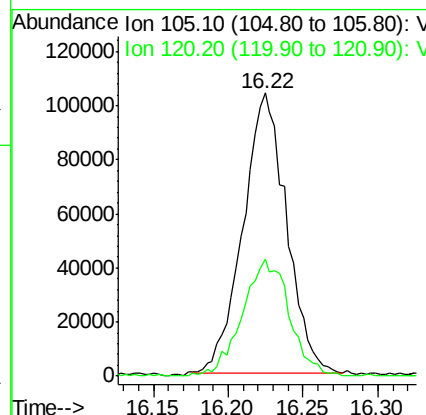
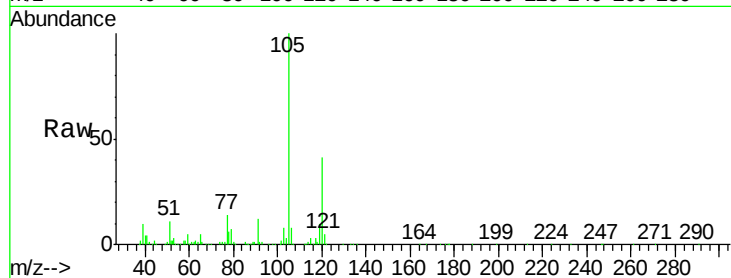
#73
 1,3,5-Trimethylbenzene
 Concen: 0.39 ppbv
 RT: 16.22 min Scan# 4708
 Delta R.T. -0.03 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
120	41.4	36.5	54.7

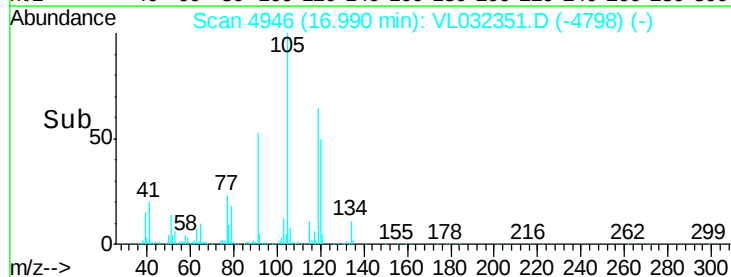
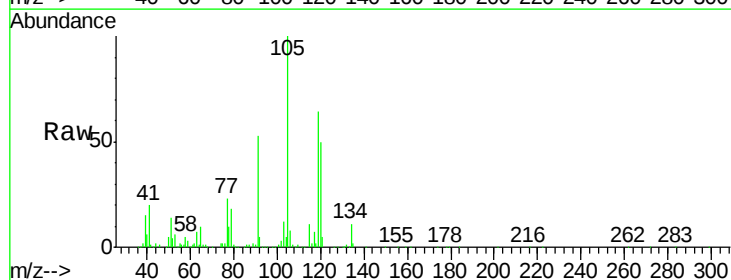
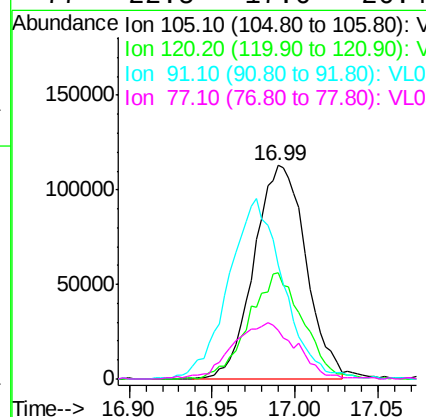
Manual Integrations
 APPROVED

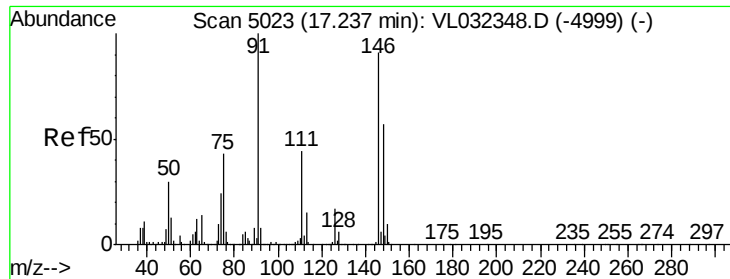
MMDadoda
 8/17/2018 2:06:27 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.44 ppbv
 RT: 16.99 min Scan# 4946
 Delta R.T. -0.03 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.7	37.8	56.6
91	50.7	39.4	59.0
77	22.5	17.6	26.4





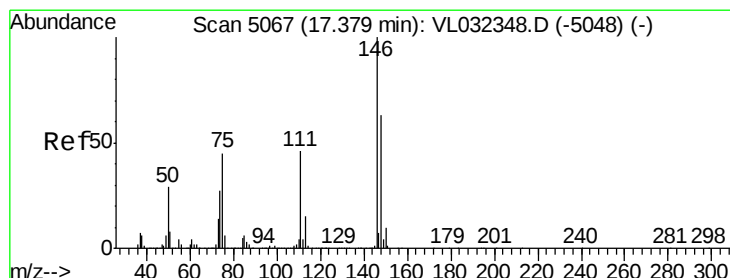
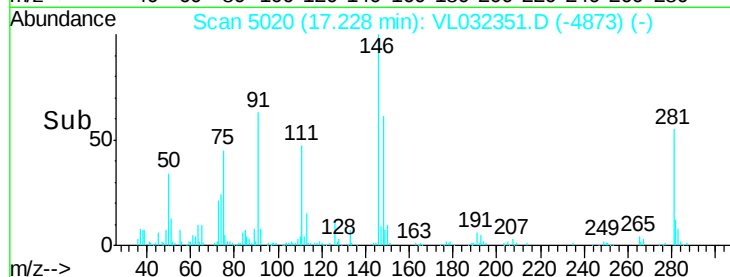
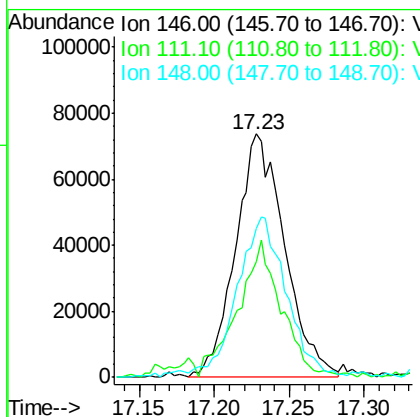
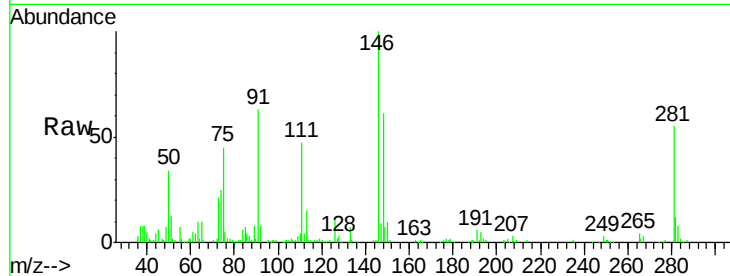
#75
 1,3-Dichlorobenzene
 Concen: 0.52 ppbv
 RT: 17.23 min Scan# 5020
 Delta R.T. -0.03 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	24.6	73.8
148	68.5	31.6	95.0

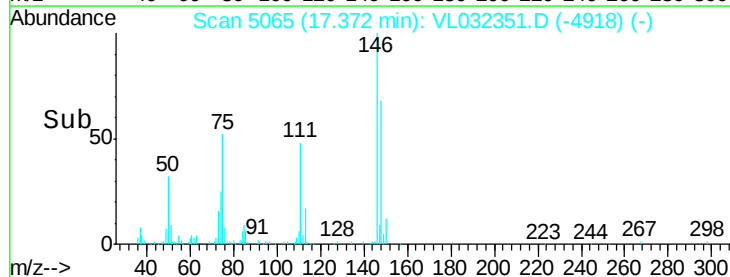
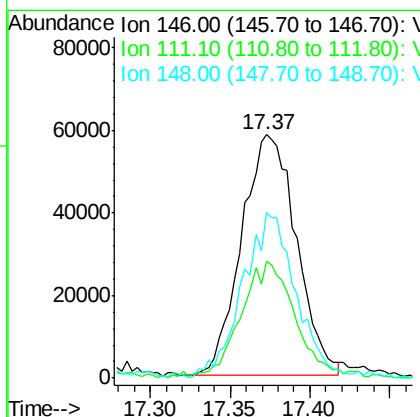
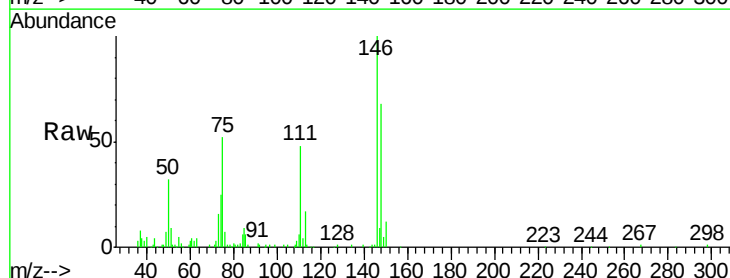
Manual Integrations
 APPROVED

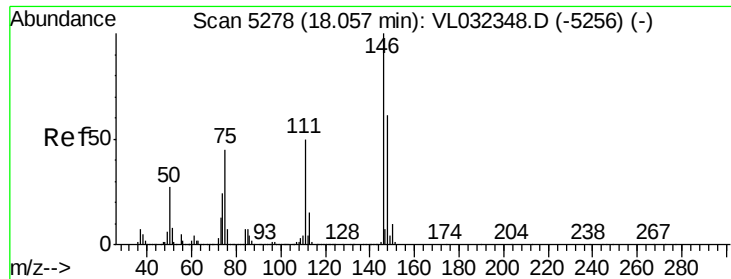
MMDadoda
 8/17/2018 2:06:27 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.44 ppbv
 RT: 17.37 min Scan# 5065
 Delta R.T. -0.03 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.5	23.6	70.8
148	68.1	32.1	96.3





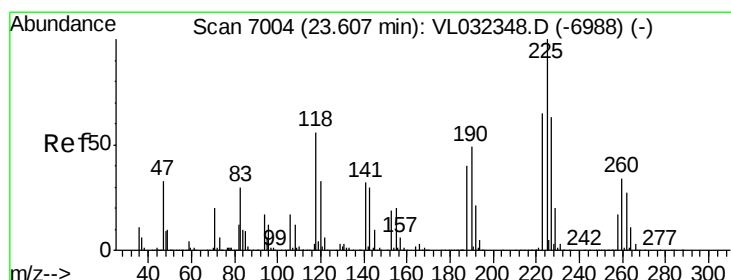
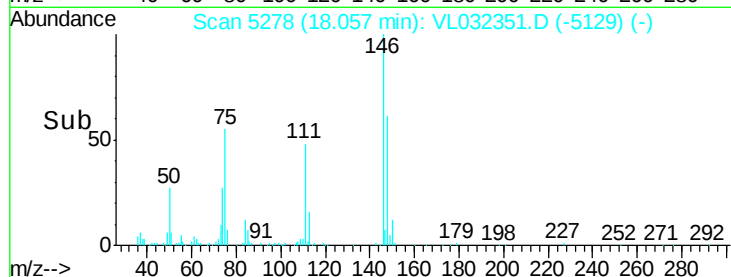
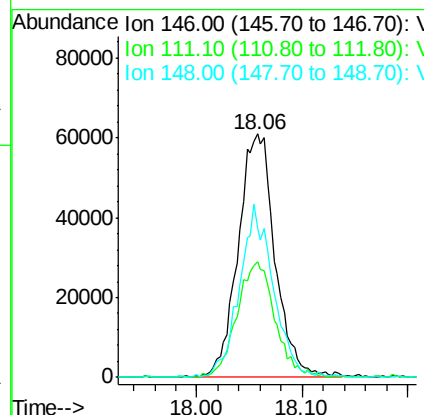
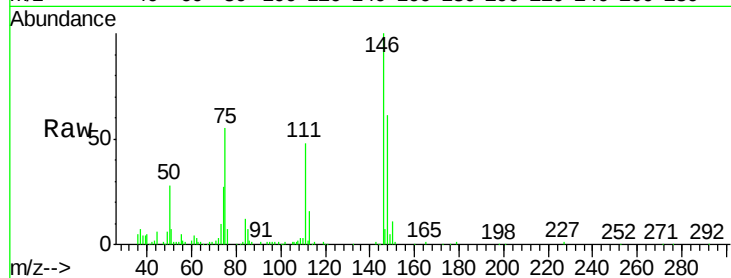
#77
 1,2-Dichlorobenzene
 Concen: 0.46 ppbv m
 RT: 18.06 min Scan# 5278
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	25.1	75.3#
148	0.0	31.9	95.7#

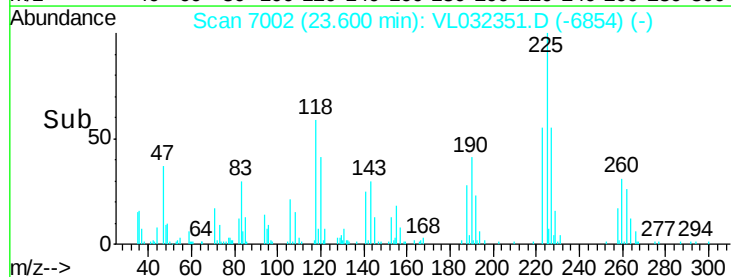
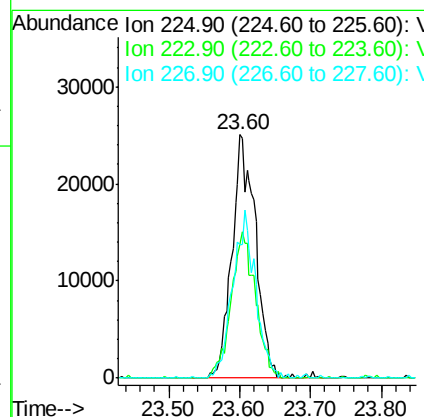
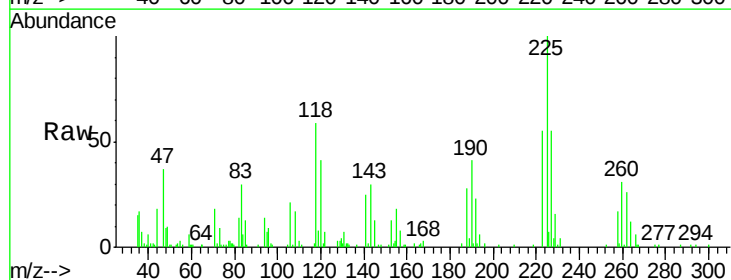
Manual Integrations
 APPROVED

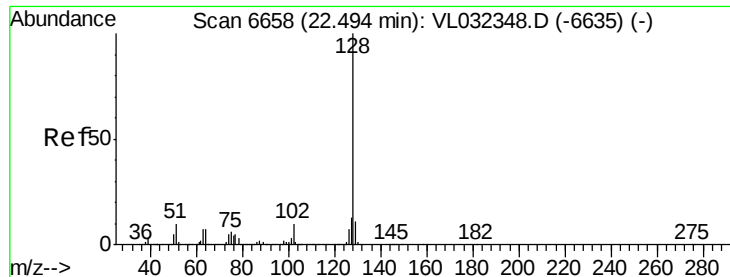
MMDadoda
 8/17/2018 2:06:27 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.51 ppbv m
 RT: 23.60 min Scan# 7002
 Delta R.T. -0.03 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.5	75.7#
227	0.0	51.3	76.9#





#79

Naphthalene

Concen: 0.24 ppbv m

RT: 22.49 min Scan# 6658

Delta R.T. -0.03 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Instrument :

MSVOA_L

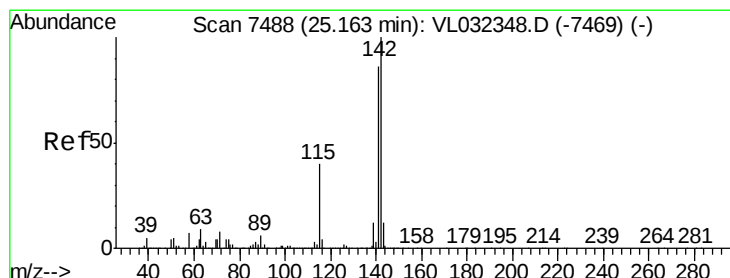
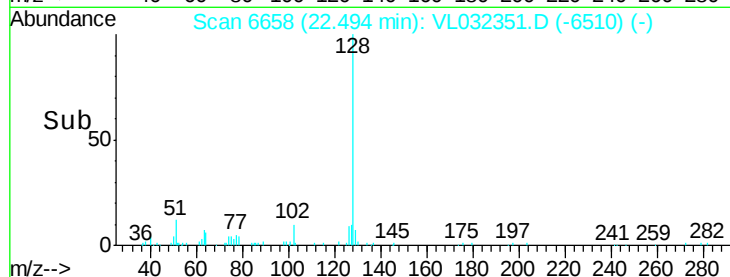
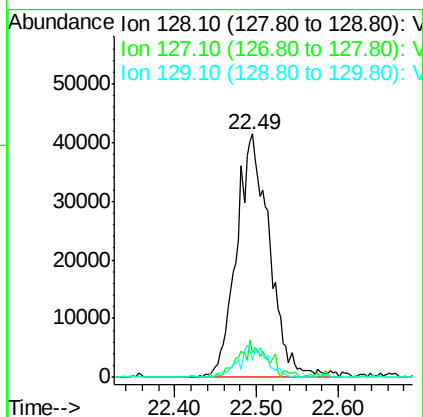
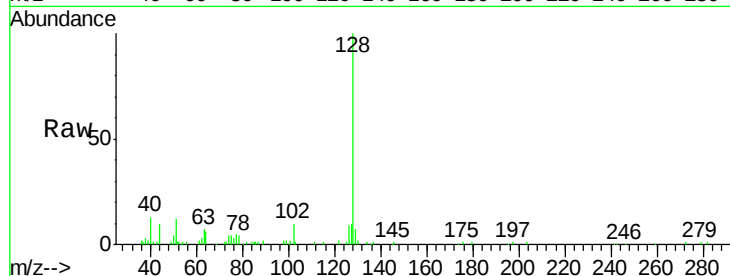
ClientSampleId :

VSTDIC0.5

Tot Ion:	128	Resp:	115850
Ion Ratio	Lower	Upper	
128	100		
127	10.4	9.9	14.9
129	6.9	8.8	13.2#

Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:27 PM



#80

Naphthalene, 2-methyl-

Concen: 0.05 ppbv

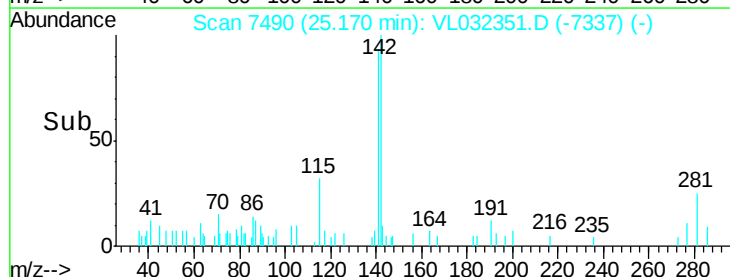
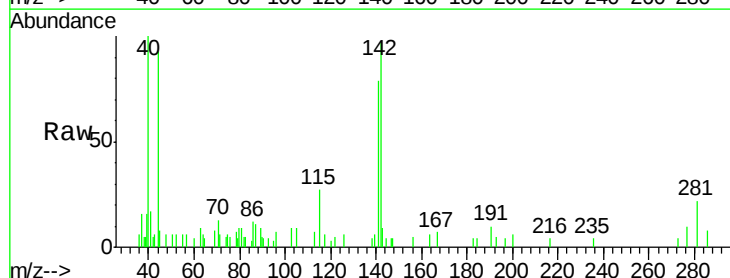
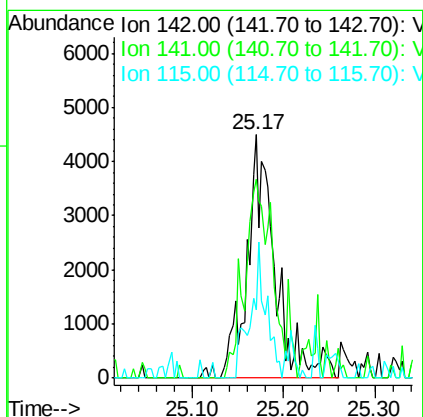
RT: 25.17 min Scan# 7490

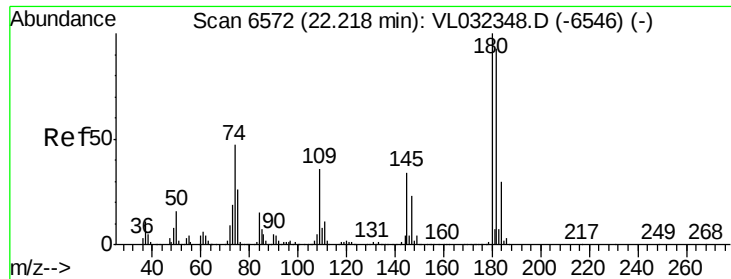
Delta R.T. -0.01 min

Lab File: VL032351.D

Acq: 15 Aug 2018 11:56

Tgt Ion:	142	Resp:	9652
Ion Ratio	Lower	Upper	
142	100		
141	98.2	66.7	100.1
115	36.3	31.1	46.7





#81
 1,2,4-Trichlorobenzene
 Concen: 0.32 ppbv m
 RT: 22.21 min Scan# 6571
 Delta R.T. -0.02 min
 Lab File: VL032351.D
 Acq: 15 Aug 2018 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.3	36.5#

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:27 PM

