

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032922.D
 Acq On : 7 Dec 2018 4:57
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:08:11 AM

Quant Time: Dec 07 06:04:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 2018
 QLast Update : Fri Dec 07 05:41:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1318889	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3216028	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3007611	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2253277	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	185000	1.023	ppbv	98
3) Chlorodifluoromethane	3.02	51	102565	0.997	ppbv	97
4) Chloromethane	3.17	50	61191	1.009	ppbv	89
5) Vinyl Chloride	3.29	62	56948	0.959	ppbv	93
6) Bromomethane	3.52	94	37203	0.966	ppbv	88
7) Chloroethane	3.61	64	20828	0.905	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	152118	1.033	ppbv	99
9) Propene	3.04	41	40279	0.978	ppbv	98
10) Heptane	8.25	43	138274	0.883	ppbv	99
11) Trichlorofluoromethane	4.01	101	163570	0.913	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	148605	1.092	ppbv	99
13) Ethanol	3.66	45	15441	1.108	ppbv	87
14) Bromoethene	3.79	108	45826	0.920	ppbv	100
15) Acetone	3.91	43	120071	1.020	ppbv	98
16) 1,3-Butadiene	3.36	39	41973	0.893	ppbv	87
17) tert-Butyl alcohol	4.38	59	32794m	1.003	ppbv	
18) 1,1-Dichloroethene	4.36	96	61428	1.039	ppbv	88
19) Isopropyl Alcohol	4.04	45	74771m	0.878	ppbv	
20) Methylene Chloride	4.41	84	62536	0.945	ppbv	94
21) Allyl Chloride	4.48	41	87619	1.009	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	64217	0.899	ppbv	87
23) Vinyl Acetate	5.16	43	182286	0.822	ppbv	98
24) 1,1-Dichloroethane	5.09	63	173867	1.018	ppbv	99
25) Ethyl Acetate	5.78	43	274357	0.988	ppbv	99
26) Hexane	5.78	57	126437	0.970	ppbv	97
27) Carbon Disulfide	4.63	76	157332m	0.954	ppbv	
28) Methyl tert-Butyl Ether	5.12	73	176644	0.845	ppbv	98
29) Chloroform	5.85	83	226055	1.044	ppbv	94
30) Cyclohexane	7.26	84	96321m	0.905	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	106000	0.893	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	210277	0.867	ppbv	98
34) 2-Butanone	5.34	43	135955	0.854	ppbv	100
35) Carbon Tetrachloride	7.14	117	236041	0.987	ppbv	93
36) Benzene	7.01	78	235681	0.935	ppbv	97
37) 1,2-Dichloroethane	6.41	62	162759	1.005	ppbv	99
38) Trichloroethene	7.97	130	95055m	0.947	ppbv	
39) 1,2-Dichloropropane	7.74	63	89477	0.969	ppbv	94
40) 1,4-Dioxane	7.99	88	33443m	0.959	ppbv	
41) Tetrahydrofuran	6.17	42	84931m	0.937	ppbv	
42) Bromodichloromethane	7.92	83	225697	1.002	ppbv	98
43) Methyl Methacrylate	8.15	69	81484	0.875	ppbv	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032922.D
 Acq On : 7 Dec 2018 4:57
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:08:11 AM

Quant Time: Dec 07 06:04:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 2018
 QLast Update : Fri Dec 07 05:41:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	403643	0.982	ppbv	97
45) t-1,3-Dichloropropene	9.42	75	86514	0.707	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	108936	0.785	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	97465	0.893	ppbv	96
48) Dibromochloromethane	10.45	129	177199	0.879	ppbv	99
49) Bromoform	13.20	173	143385	0.847	ppbv	97
50) 4-Methyl-2-Pentanone	8.89	43	205905	0.884	ppbv	95
51) 2-Hexanone	10.29	43	139140	0.808	ppbv #	93
52) Tetrachloroethene	11.38	164	83152	0.882	ppbv	96
53) Toluene	9.95	91	235142	0.824	ppbv	99
54) 1,2-Dibromoethane	10.77	107	141011	0.866	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	143194	1.054	ppbv #	1
57) Chlorobenzene	12.31	112	240559	1.071	ppbv	97
58) Ethyl Benzene	12.87	91	315067	0.919	ppbv	94
59) m/p-Xylene	13.16	91	602433m	1.947	ppbv	
60) o-Xylene	13.86	91	289766	0.959	ppbv	100
61) Styrene	13.69	104	178878m	0.886	ppbv	
62) Isopropylbenzene	14.83	105	420332	0.980	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.84	83	218785	0.960	ppbv	98
64) n-propylbenzene	15.73	120	109136	1.009	ppbv	88
65) tert-Butylbenzene	16.91	119	409178	1.112	ppbv	94
66) Benzyl Chloride	17.16	91	188492	0.966	ppbv	100
67) sec-Butylbenzene	17.47	105	576731	1.105	ppbv	98
69) p-Isopropyltoluene	17.82	119	461359	1.113	ppbv	98
70) n-Butylbenzene	18.73	91	409995m	1.005	ppbv	
71) 2-Chlorotoluene	15.62	91	297275	0.959	ppbv	99
72) 4-Ethyltoluene	16.01	105	322234	1.010	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	311688	1.014	ppbv #	85
74) 1,2,4-Trimethylbenzene	16.93	105	396930	1.188	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	219609	1.122	ppbv	97
76) 1,4-Dichlorobenzene	17.31	146	197623	1.078	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	202374	1.097	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	110581m	0.948	ppbv	
79) Naphthalene	22.43	128	203655m	1.031	ppbv	
80) Naphthalene,2-methyl-	25.13	142	31901	0.722	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	118821m	1.140	ppbv	

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

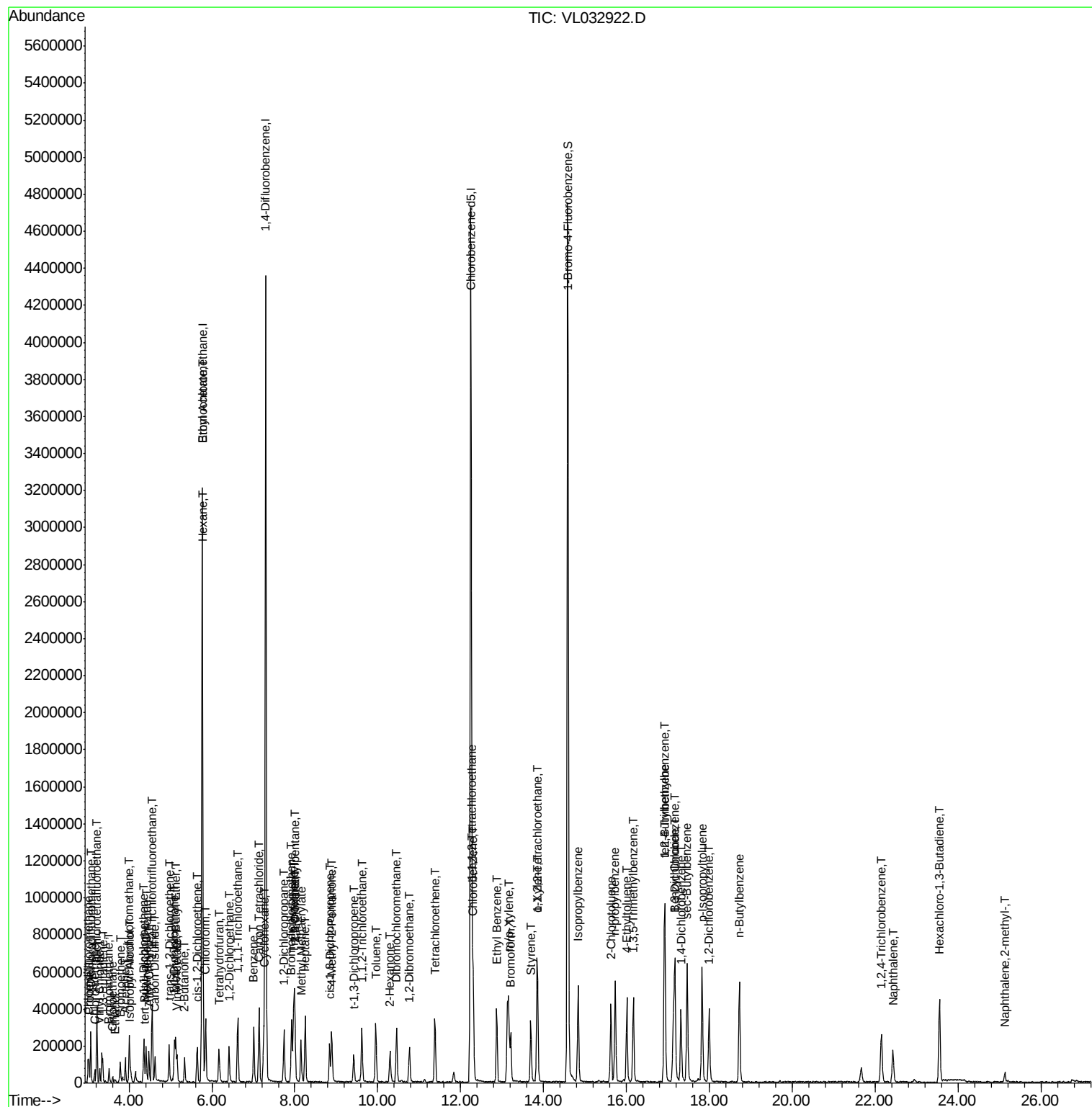
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
Data File : VL032922.D
Acq On : 7 Dec 2018 4:57
Operator : SY/AP
Sample : VSTDIC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

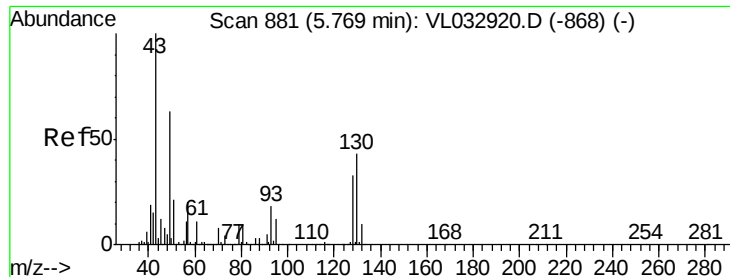
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM

Quant Time: Dec 07 06:04:10 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 05:41:55 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 49 Resp: 1318889

Ion Ratio Lower Upper

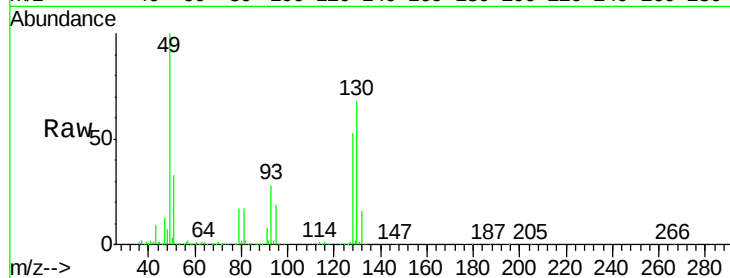
49 100

128 52.3 26.3 78.8

130 66.9 33.9 101.7

Manual Integrations
APPROVED

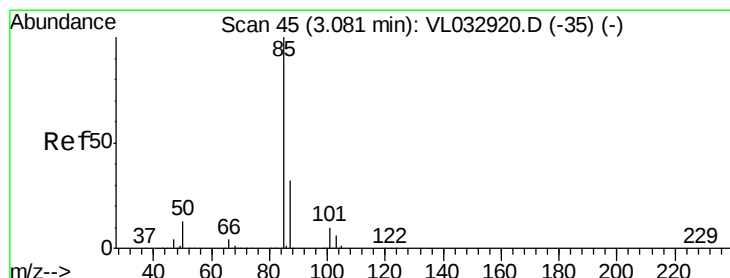
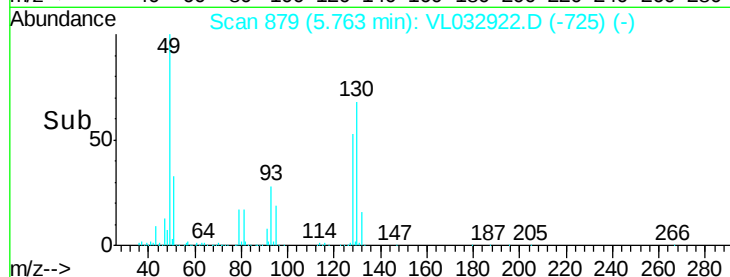
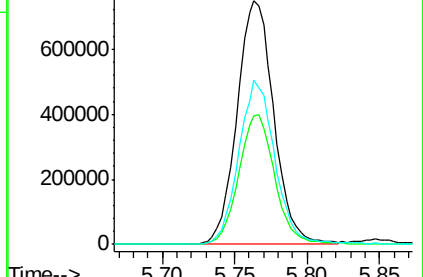
MMDadoda
12/11/2018 10:08:11 AM



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: 1.023 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032922.D

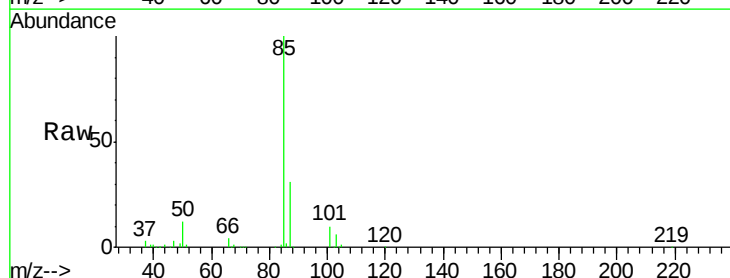
Acq: 7 Dec 2018 4:57

Tgt Ion: 85 Resp: 185000

Ion Ratio Lower Upper

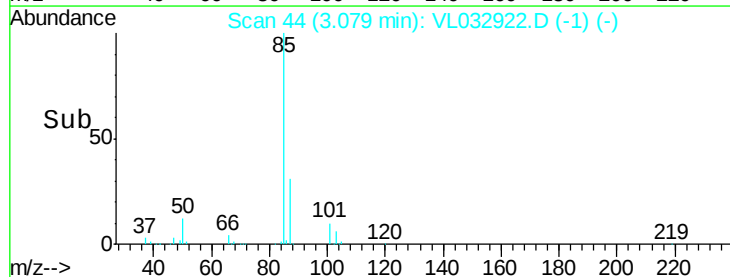
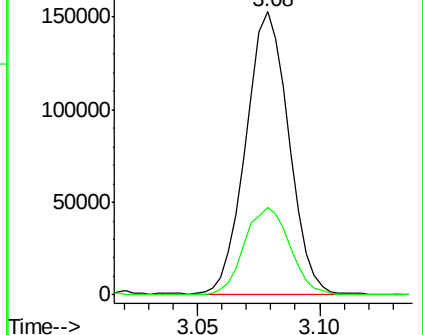
85 100

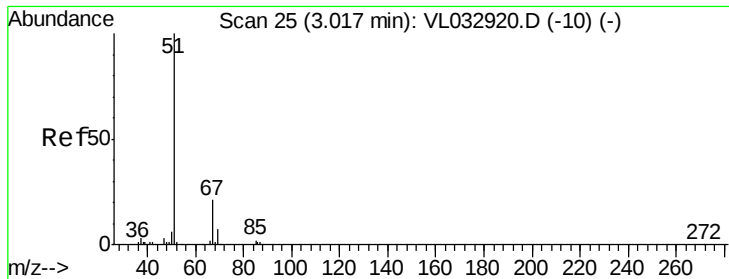
87 31.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.997 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 51 Resp: 102565

Ion Ratio Lower Upper

51 100

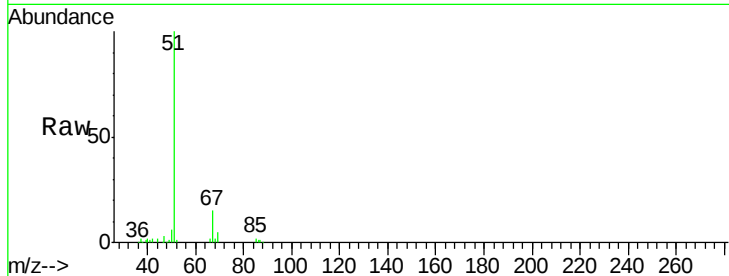
67 19.4 16.8 25.2

Manual Integrations

APPROVED

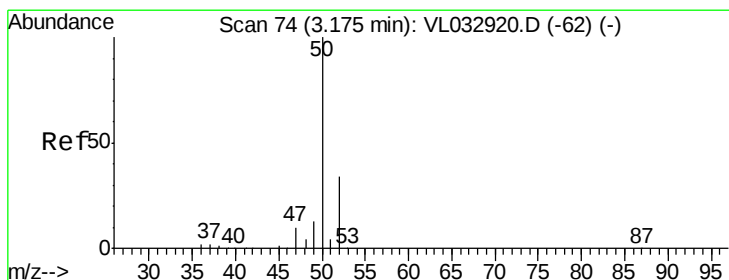
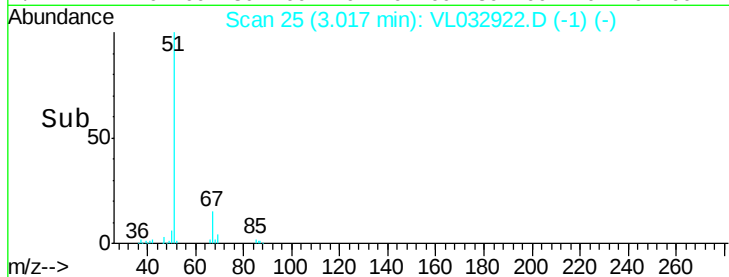
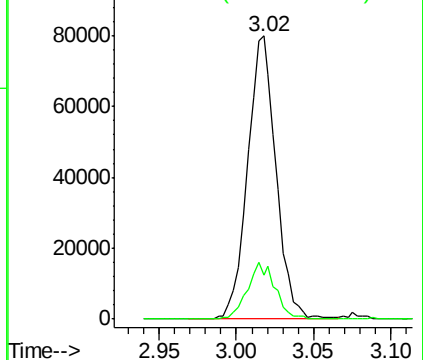
MMDadoda

12/11/2018 10:08:11 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.009 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032922.D

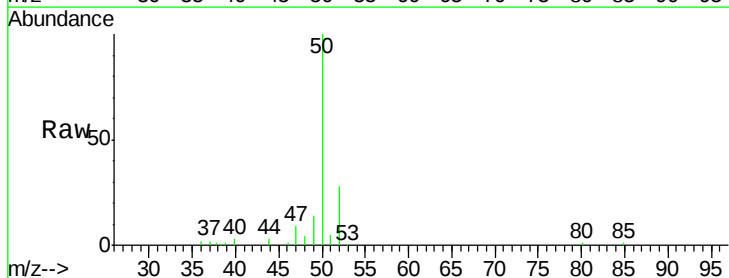
Acq: 7 Dec 2018 4:57

Tgt Ion: 50 Resp: 61191

Ion Ratio Lower Upper

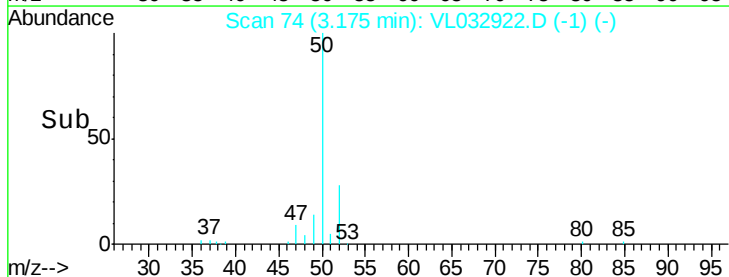
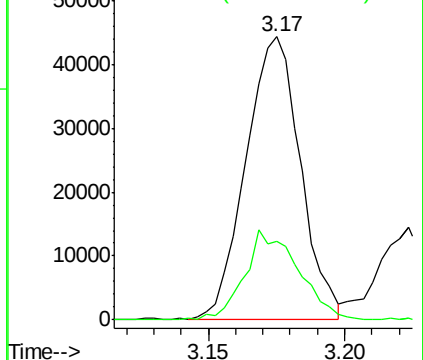
50 100

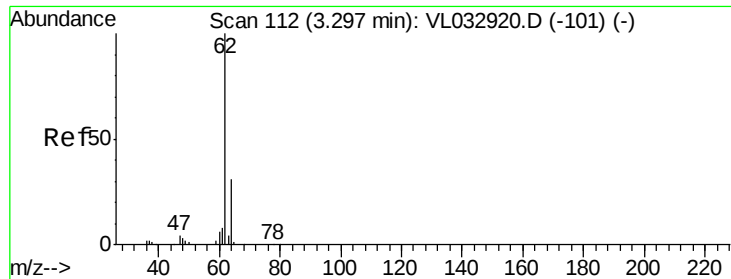
52 27.6 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.959 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 56948

Ion Ratio Lower Upper

62 100

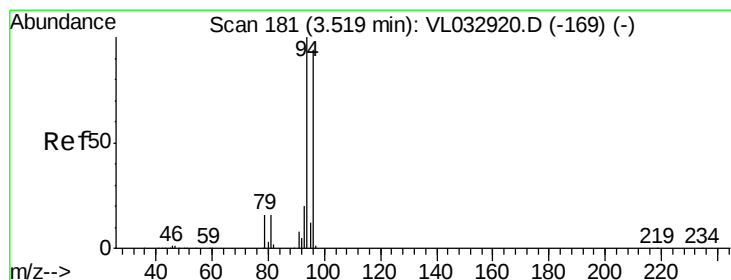
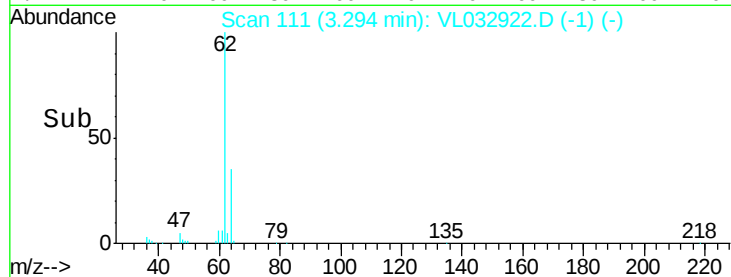
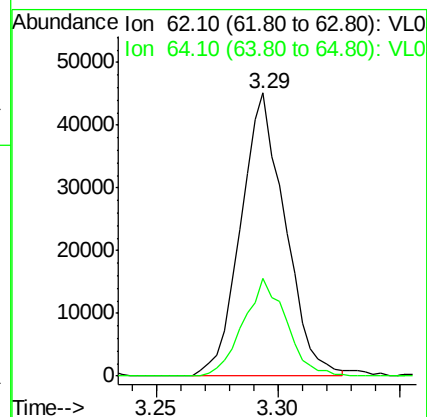
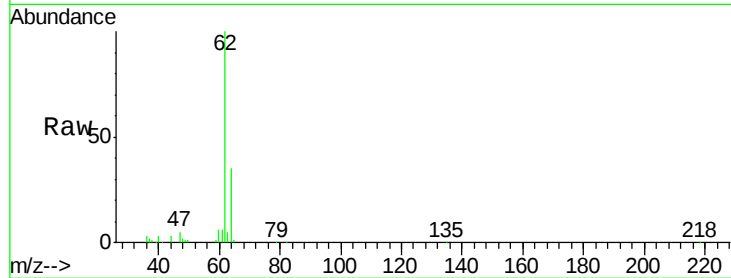
64 34.7 24.8 37.2

Manual Integrations

APPROVED

MMDadoda

12/11/2018 10:08:11 AM



#6

Bromomethane

Concen: 0.966 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032922.D

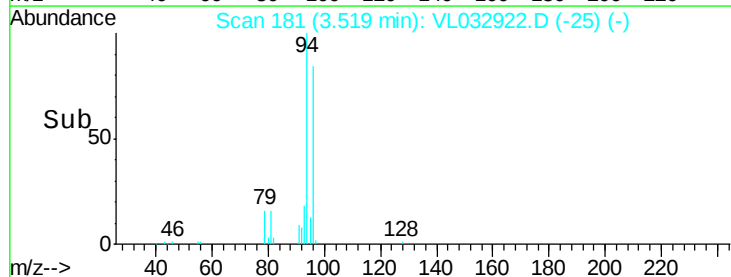
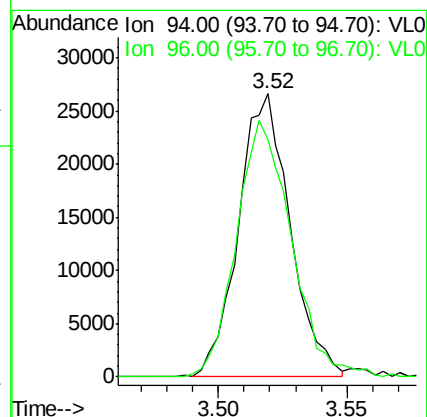
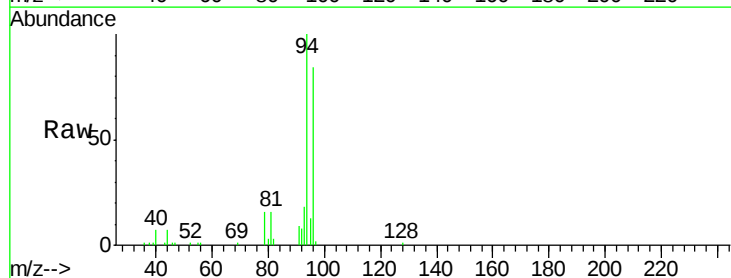
Acq: 7 Dec 2018 4:57

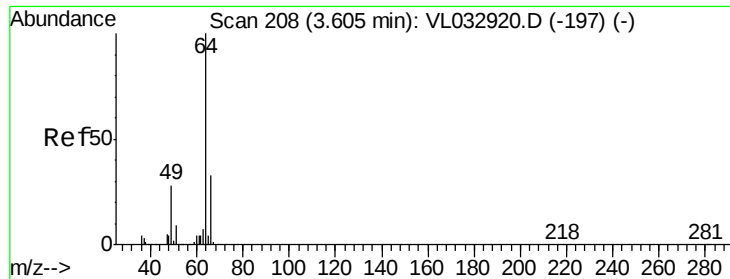
Tgt Ion: 94 Resp: 37203

Ion Ratio Lower Upper

94 100

96 82.5 75.5 113.3





#7

Chloroethane

Concen: 0.905 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 64 Resp: 20828

Ion Ratio Lower Upper

64 100

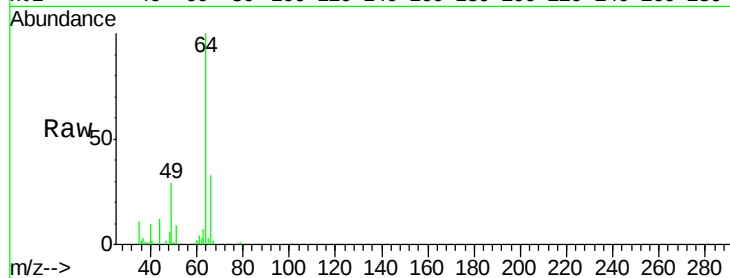
66 32.9 26.6 40.0

Manual Integrations

APPROVED

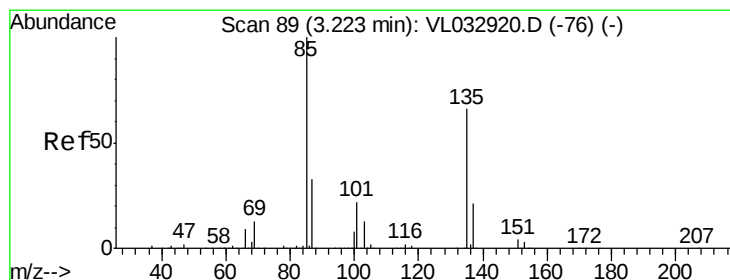
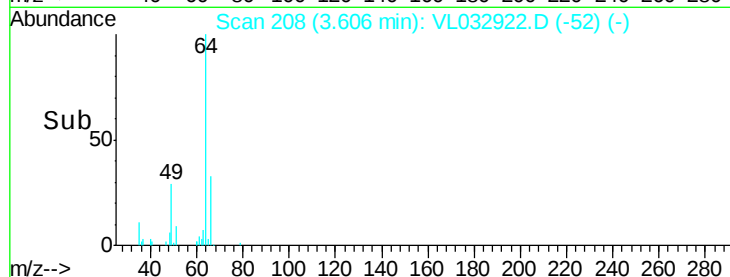
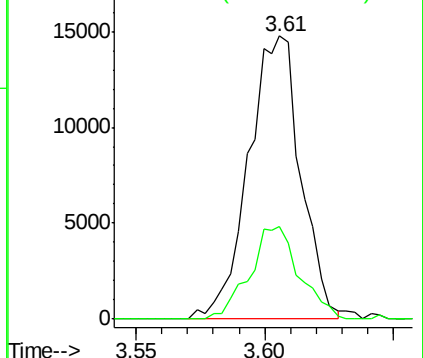
MMDadoda

12/11/2018 10:08:11 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.033 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032922.D

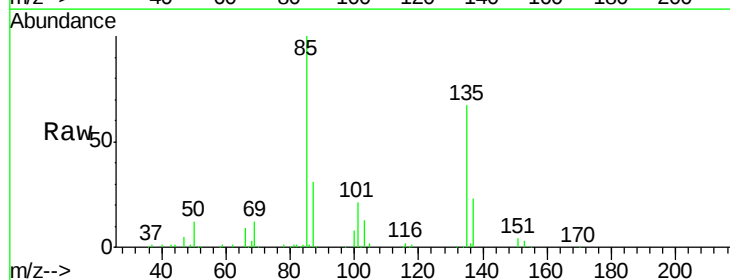
Acq: 7 Dec 2018 4:57

Tgt Ion: 85 Resp: 152118

Ion Ratio Lower Upper

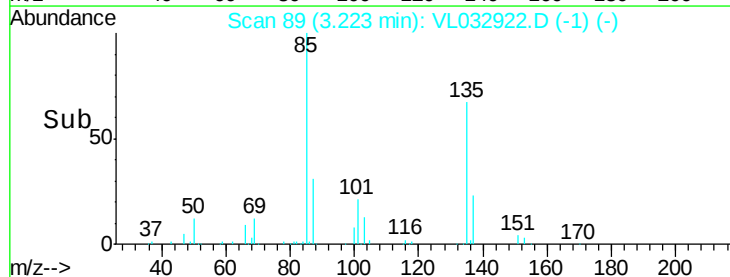
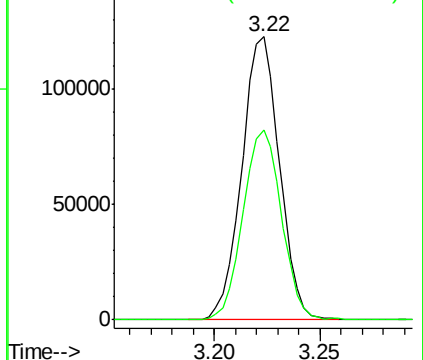
85 100

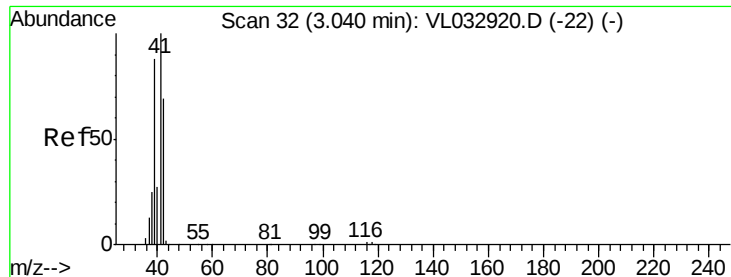
135 68.6 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.978 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 40279

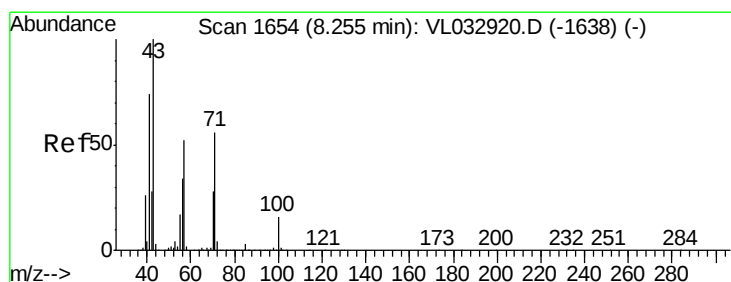
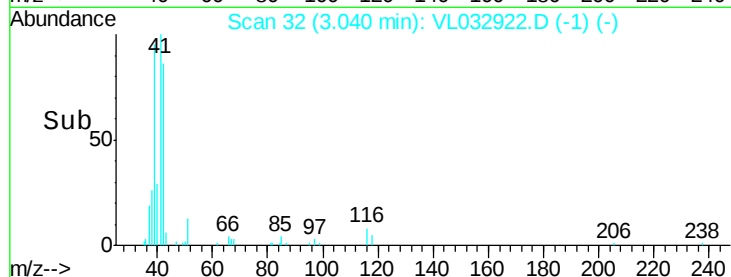
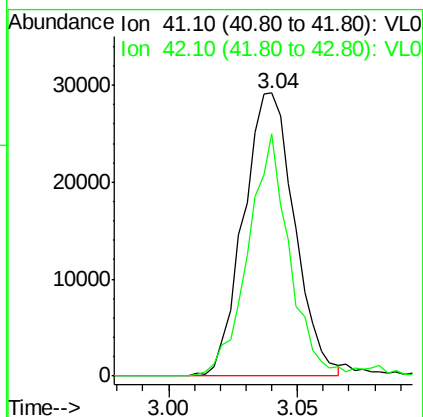
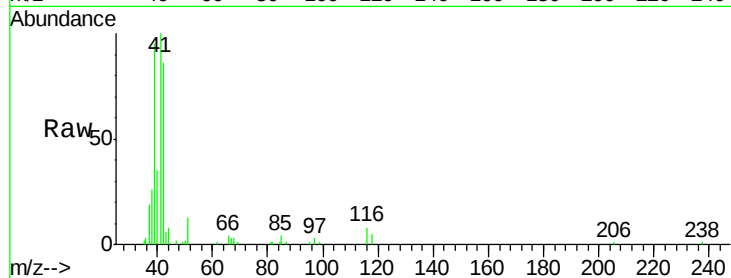
Ion Ratio Lower Upper

41 100

42 71.6 56.2 84.2

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



#10

Heptane

Concen: 0.883 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL032922.D

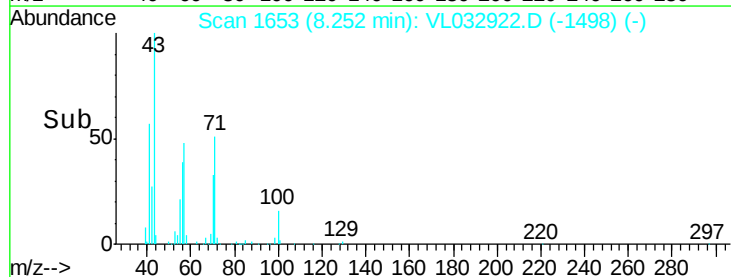
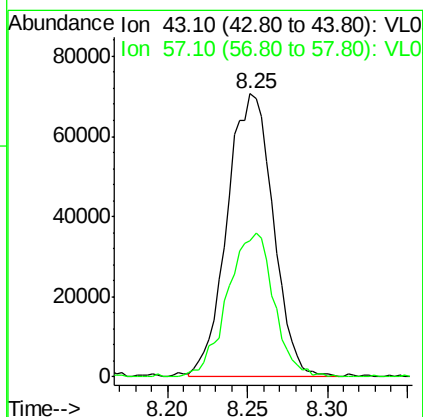
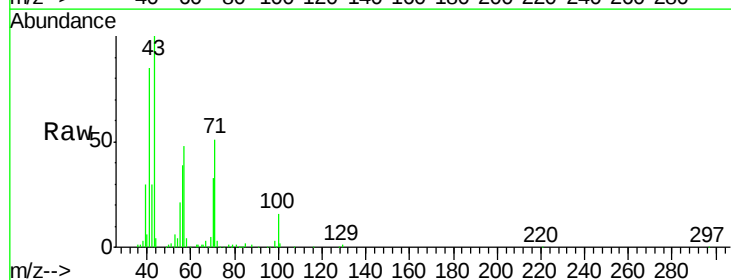
Acq: 7 Dec 2018 4:57

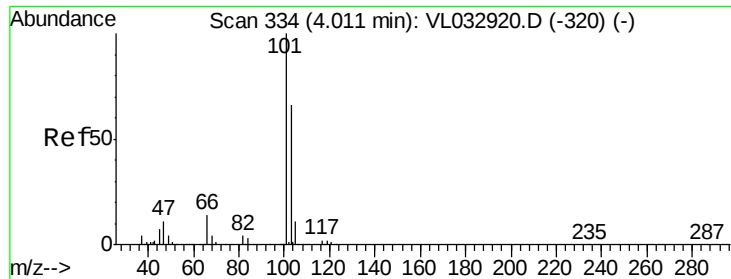
Tgt Ion: 43 Resp: 138274

Ion Ratio Lower Upper

43 100

57 51.3 41.8 62.6





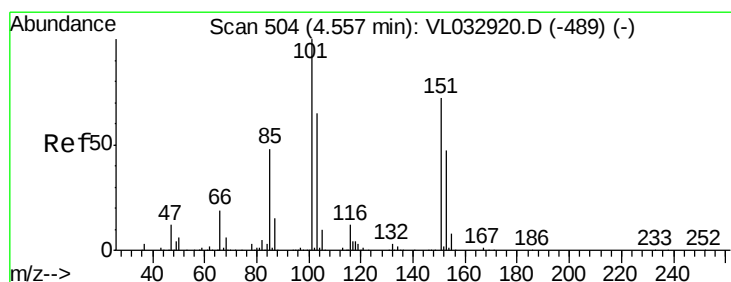
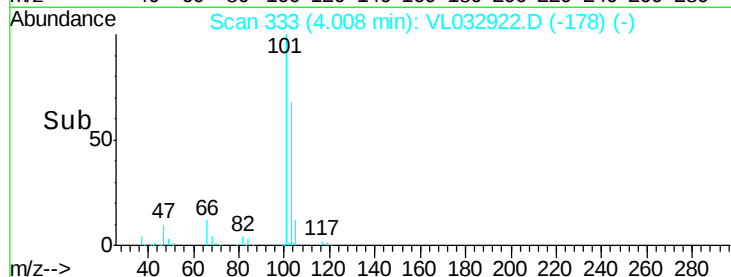
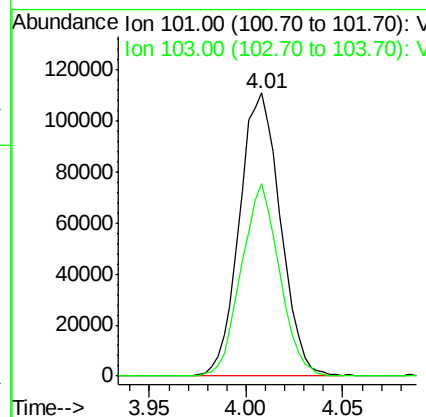
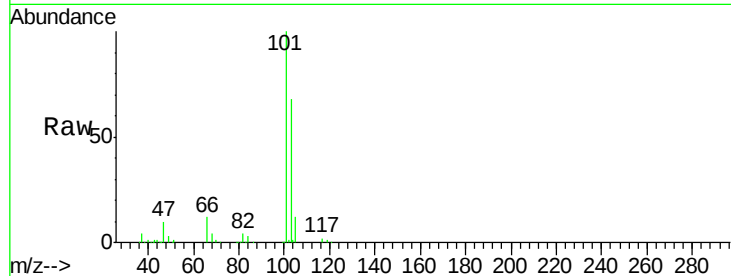
#11
 Trichlorofluoromethane
 Concen: 0.913 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:101 Resp: 163570
 Ion Ratio Lower Upper
 101 100
 103 68.0 52.7 79.1

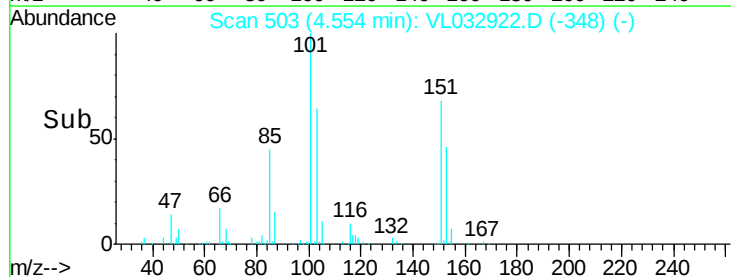
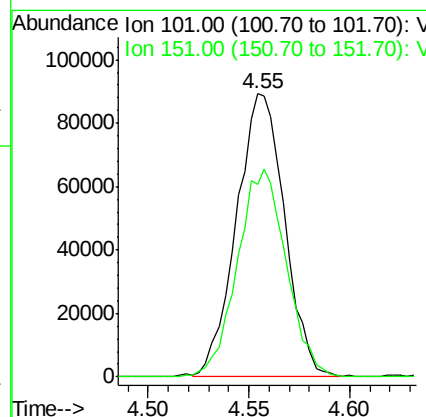
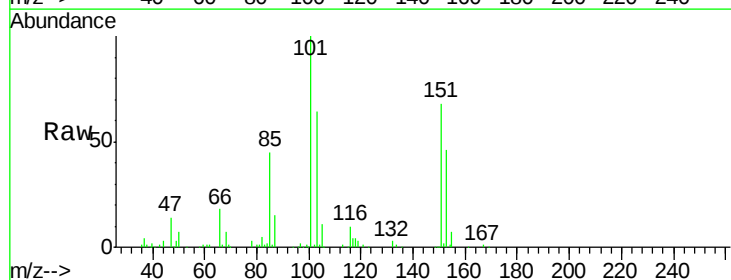
Manual Integrations
 APPROVED

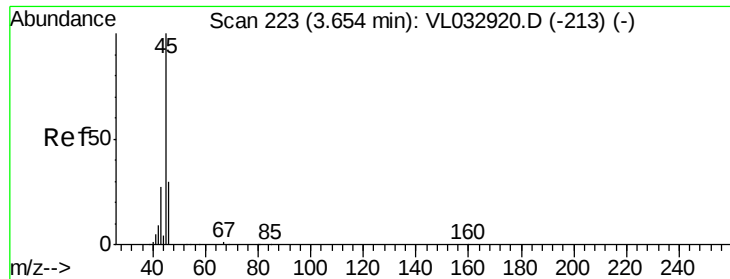
MMDadoda
 12/11/2018 10:08:11 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.092 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion:101 Resp: 148605
 Ion Ratio Lower Upper
 101 100
 151 74.7 59.3 88.9





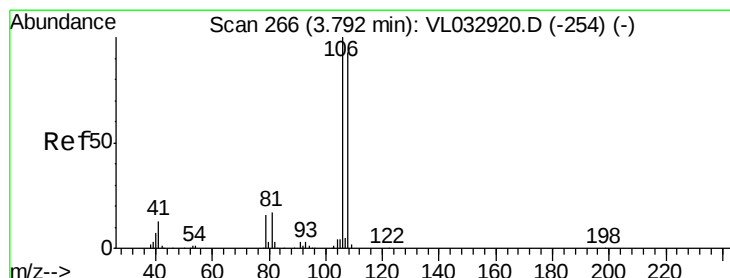
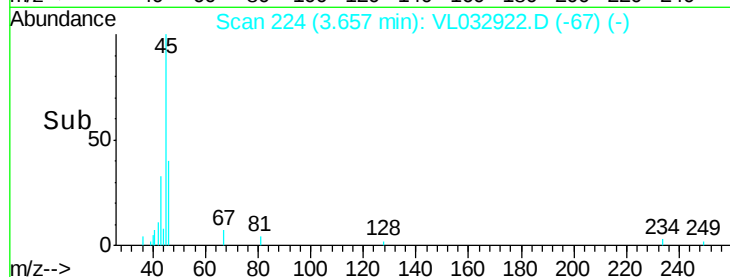
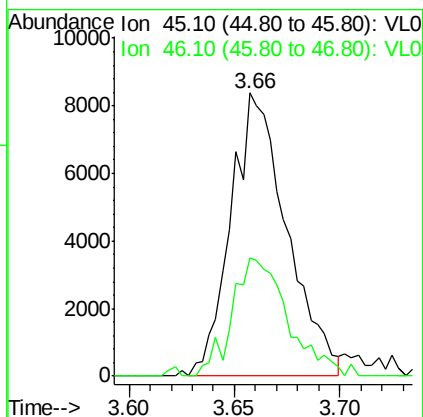
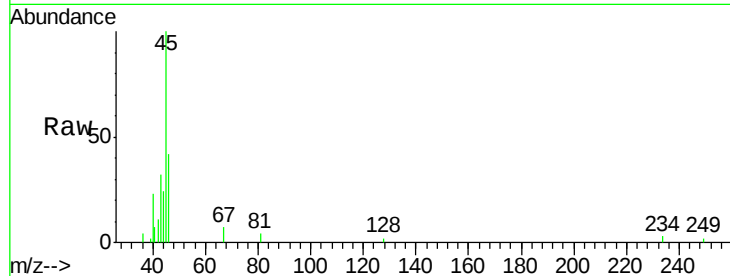
#13
Ethanol
Concen: 1.108 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 45 Resp: 15441
Ion Ratio Lower Upper
45 100
46 42.3 13.8 55.4

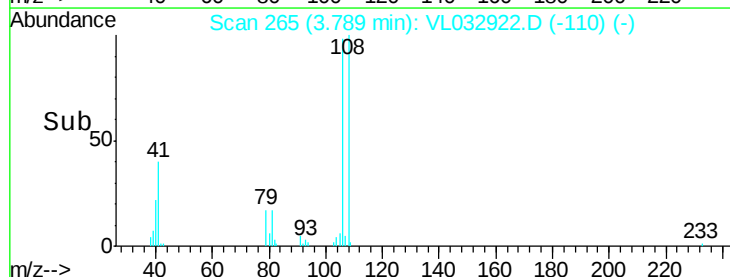
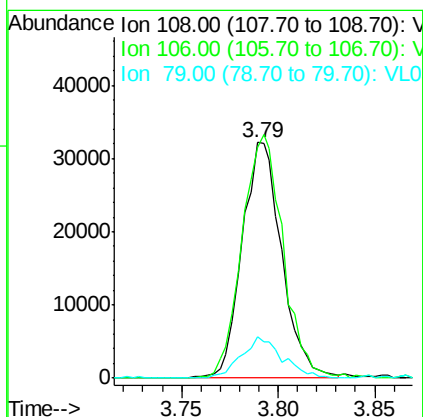
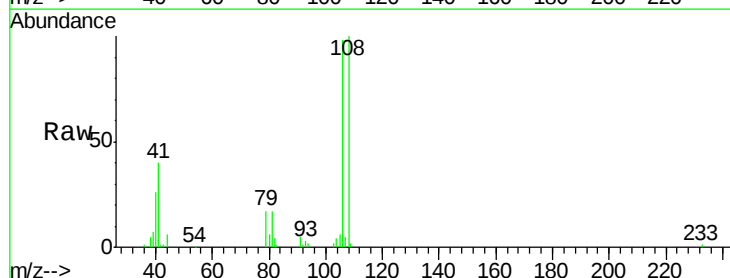
Manual Integrations
APPROVED

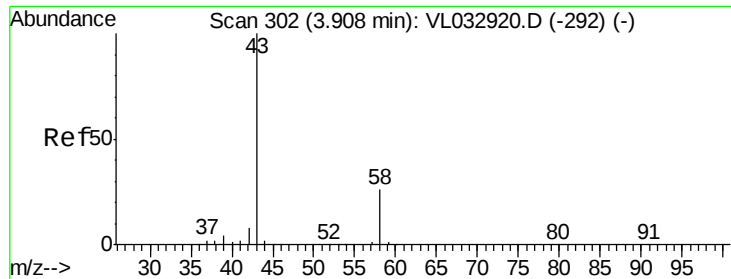
MMDadoda
12/11/2018 10:08:11 AM



#14
Bromoethene
Concen: 0.920 ppbv
RT: 3.79 min Scan# 265
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion: 108 Resp: 45826
Ion Ratio Lower Upper
108 100
106 107.1 85.4 128.2
79 18.0 14.6 21.8





#15

Acetone

Concen: 1.020 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 120071

Ion Ratio Lower Upper

43 100

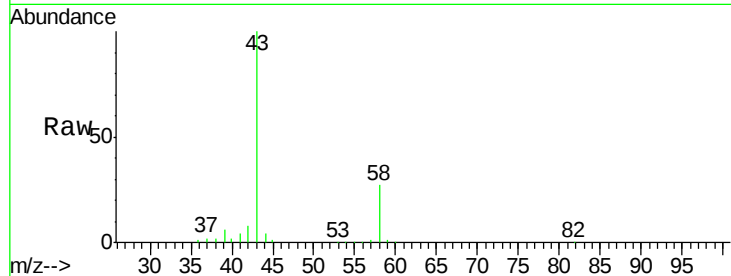
58 26.8 20.6 30.8

Manual Integrations

APPROVED

MMDadoda

12/11/2018 10:08:11 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

80000

60000

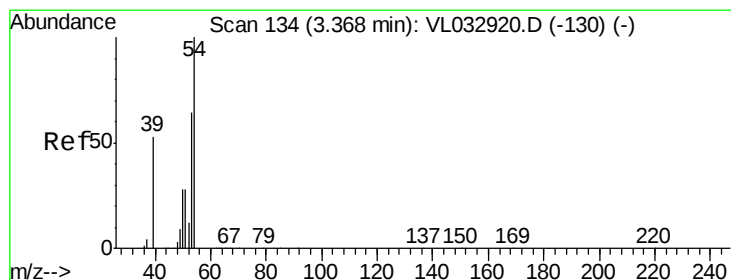
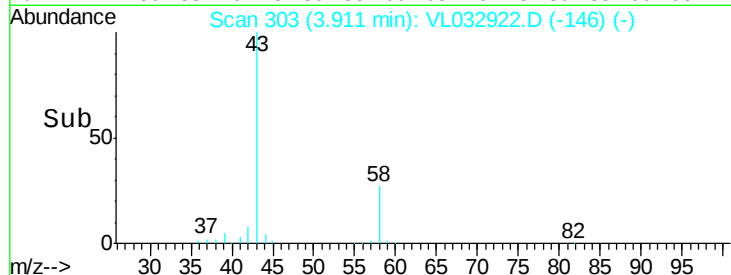
40000

20000

0

Time-->

3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 0.893 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL032922.D

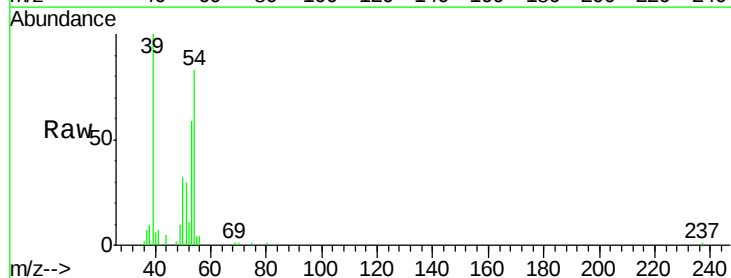
Acq: 7 Dec 2018 4:57

Tgt Ion: 39 Resp: 41973

Ion Ratio Lower Upper

39 100

54 102.8 72.7 109.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

40000

30000

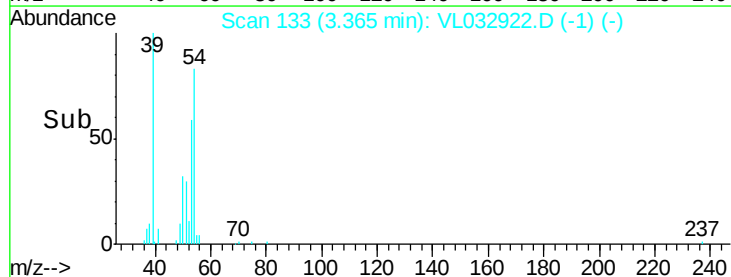
20000

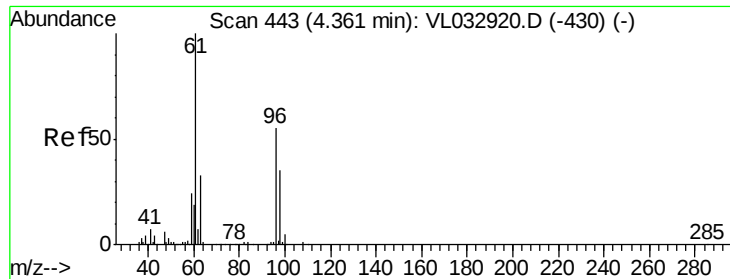
10000

0

Time-->

3.34 3.36 3.38 3.40





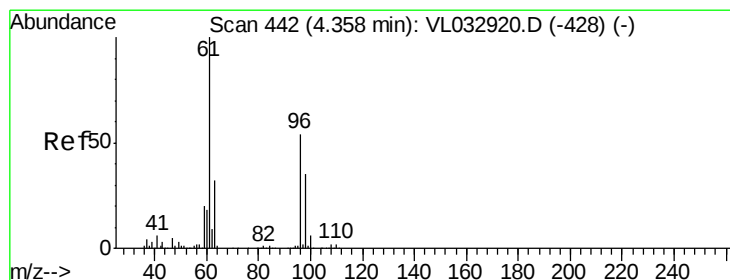
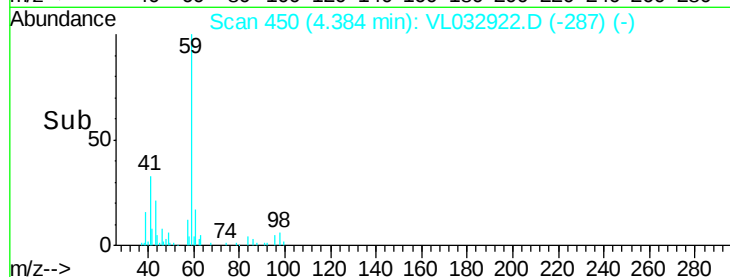
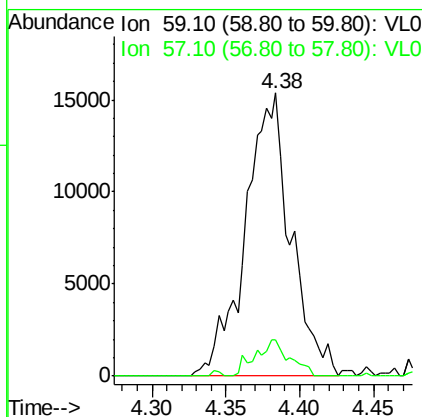
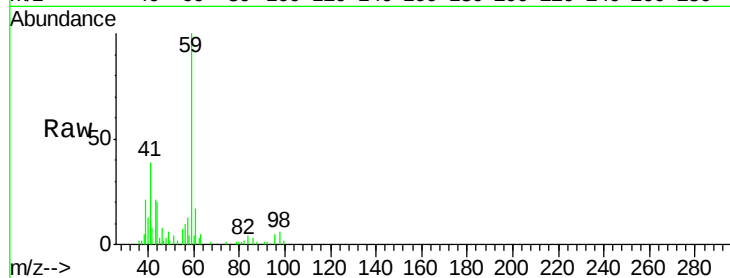
#17
tert-Butyl alcohol
Concen: 1.003 ppbv
RT: 4.38 min Scan# 450
Delta R.T. 0.02 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 32794
Ion Ratio Lower Upper
59 100
57 0.0 0.6 1.0#

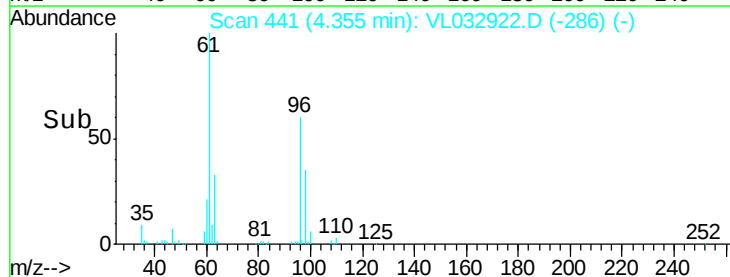
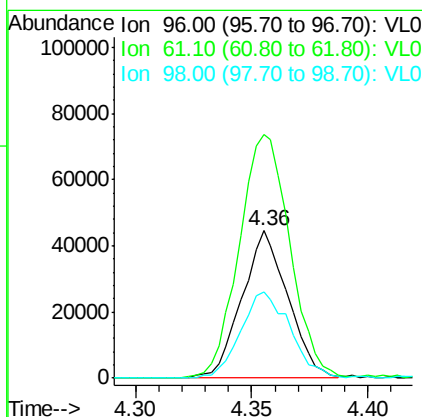
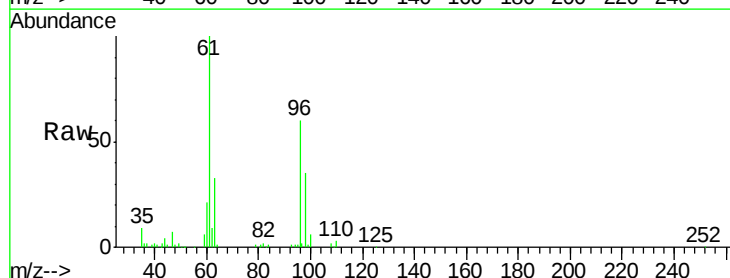
Manual Integrations
APPROVED

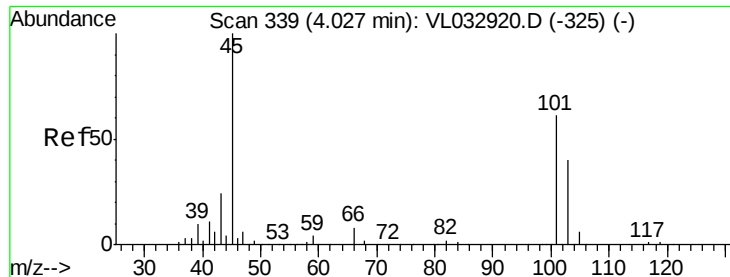
MMDadoda
12/11/2018 10:08:11 AM



#18
1,1-Dichloroethene
Concen: 1.039 ppbv
RT: 4.36 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion: 96 Resp: 61428
Ion Ratio Lower Upper
96 100
61 164.6 147.0 220.4
98 58.2 50.7 76.1





#19

Isopropyl Alcohol

Concen: 0.878 ppbv m

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 45 Resp: 74771

Ion Ratio Lower Upper

45 100

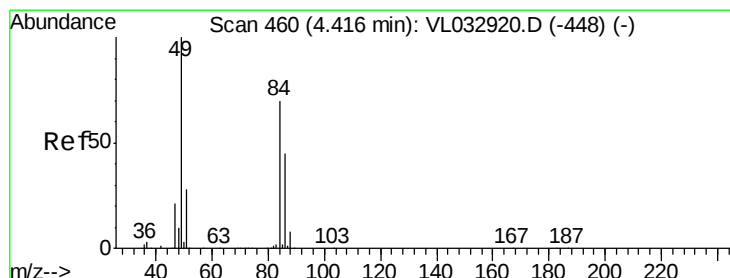
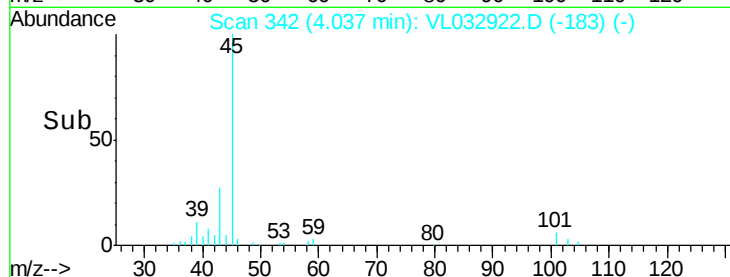
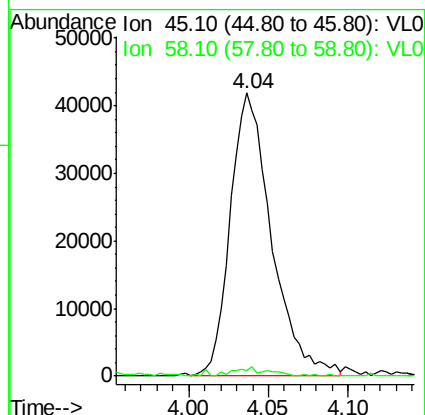
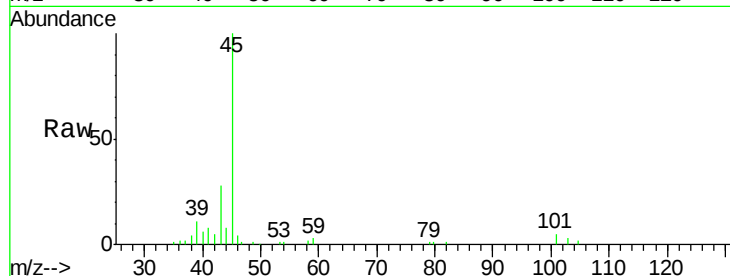
58 2.7 1.4 2.2#

Manual Integrations

APPROVED

MMDadoda

12/11/2018 10:08:11 AM



#20

Methylene Chloride

Concen: 0.945 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion: 84 Resp: 62536

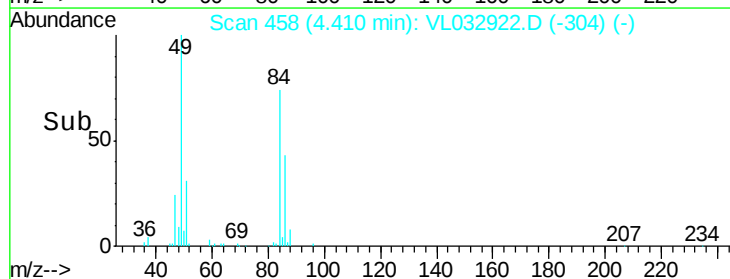
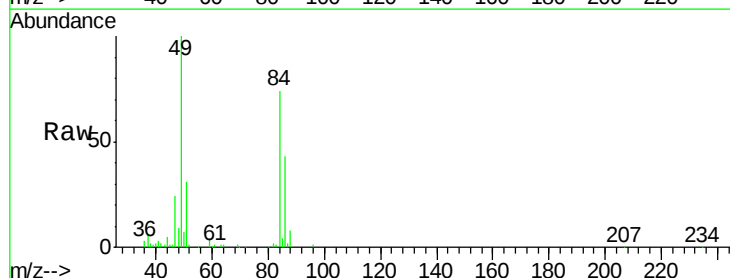
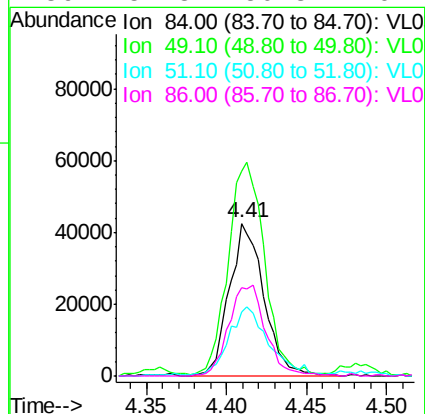
Ion Ratio Lower Upper

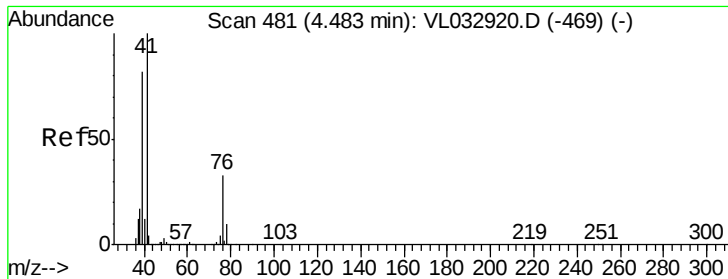
84 100

49 133.4 113.8 170.8

51 40.2 31.8 47.8

86 57.8 50.8 76.2





#21

Allyl Chloride

Concen: 1.009 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

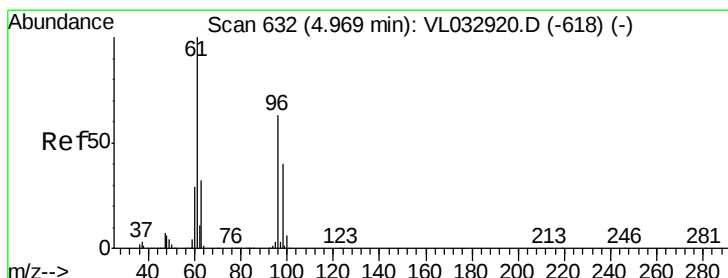
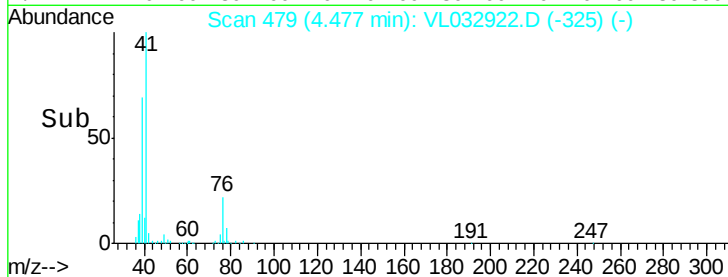
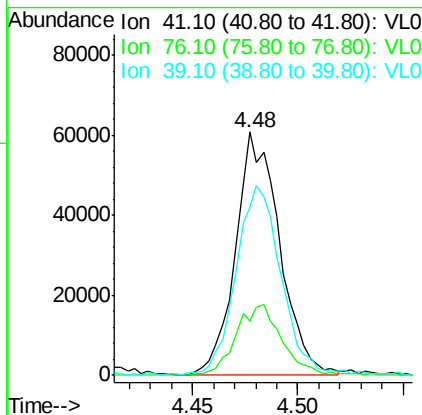
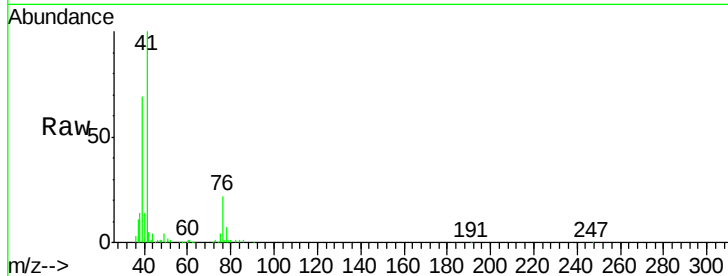
ClientSampleId :

VSTDIC001

Tgt Ion:	41	Resp:	87619
Ion Ratio	Lower	Upper	
41	100		
76	30.5	25.2	37.8
39	80.4	65.2	97.8

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



#22

trans-1,2-Dichloroethene

Concen: 0.899 ppbv

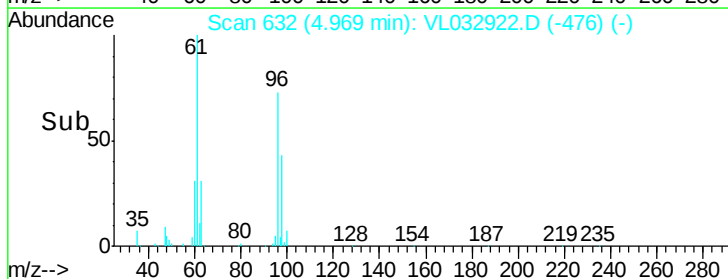
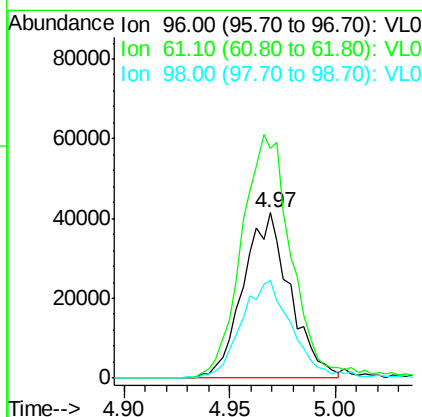
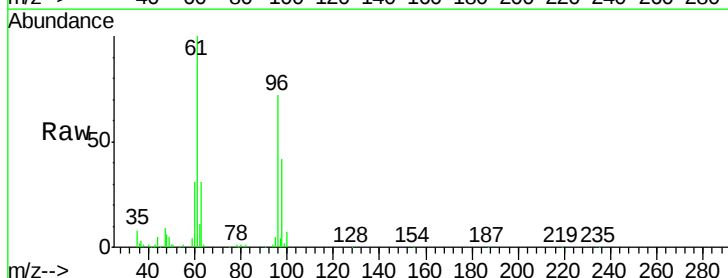
RT: 4.97 min Scan# 632

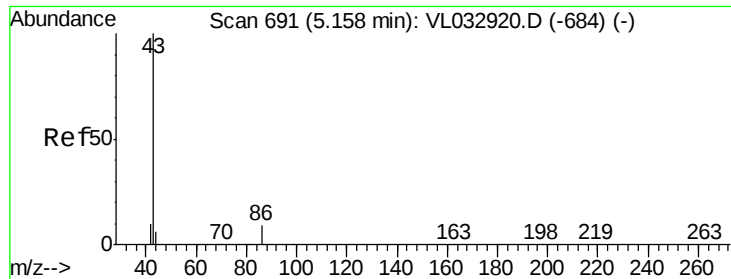
Delta R.T. 0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion:	96	Resp:	64217
Ion Ratio	Lower	Upper	
96	100		
61	138.9	127.1	190.7
98	57.9	51.3	76.9





#23

Vinyl Acetate

Concen: 0.822 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

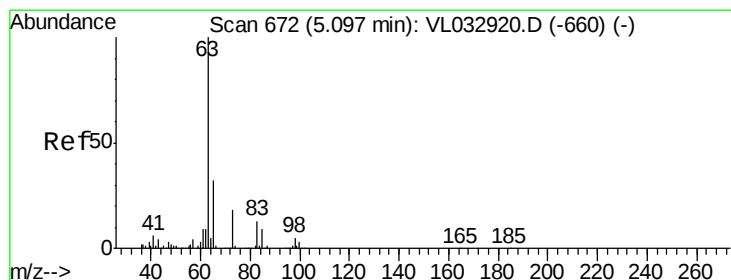
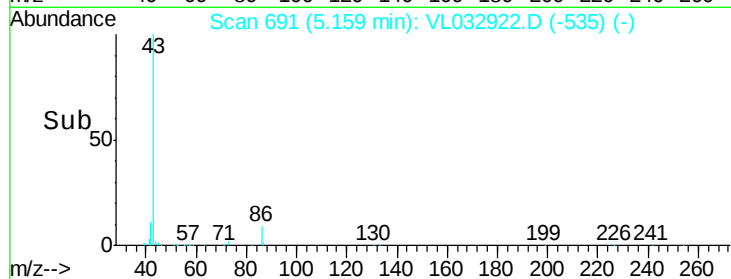
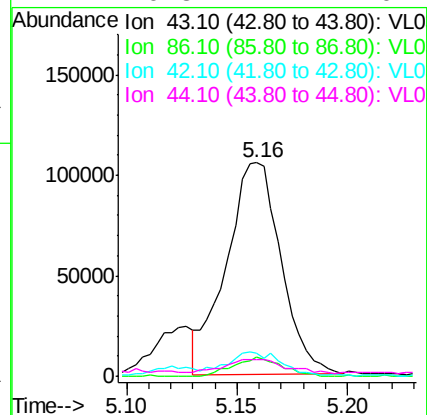
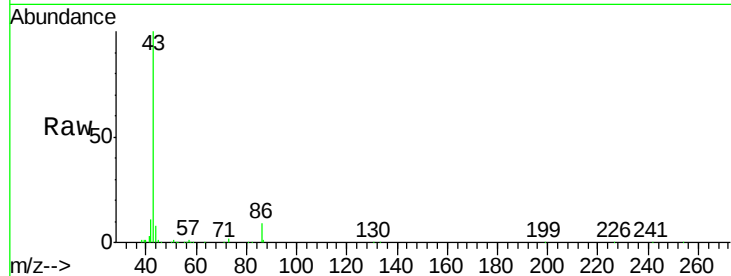
ClientSampleId :

VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	182286		
86	9.5		6.6	9.8
42	10.2		8.3	12.5
44	6.3		4.2	6.4

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



#24

1,1-Dichloroethane

Concen: 1.018 ppbv

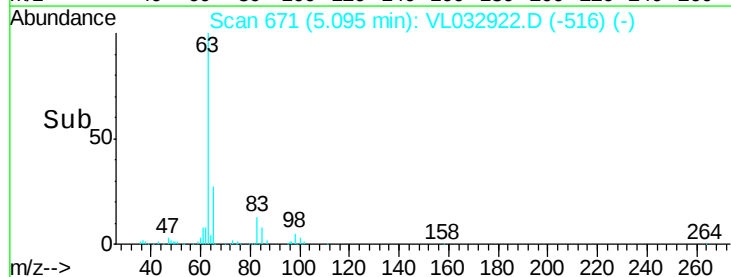
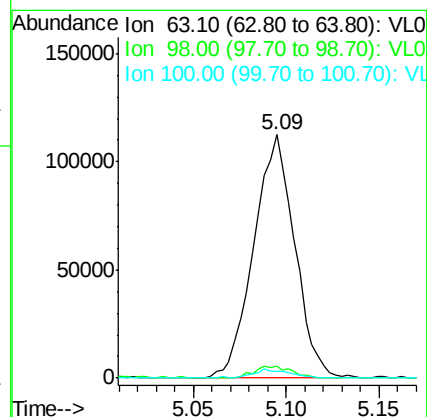
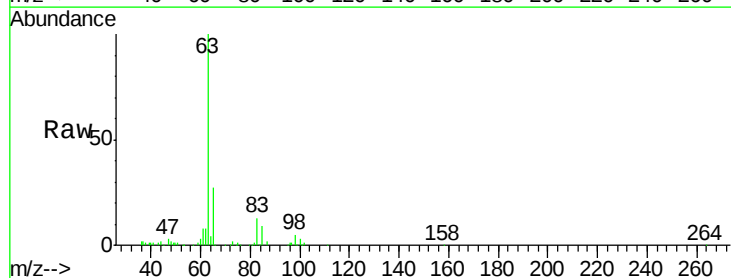
RT: 5.09 min Scan# 671

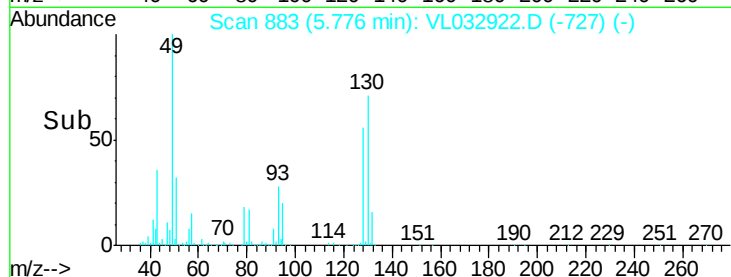
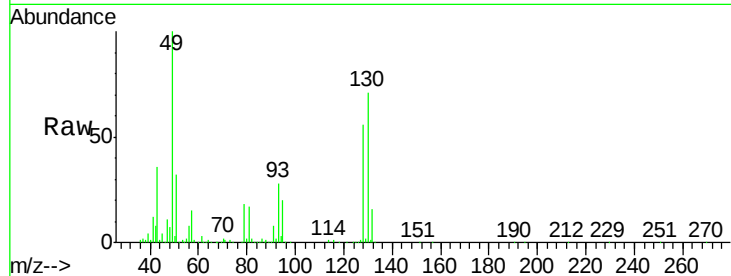
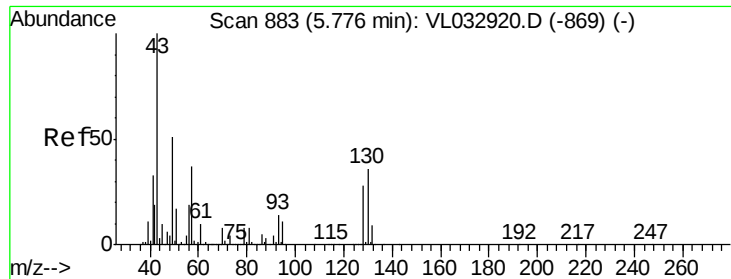
Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	173867		
98	4.5		2.5	7.5
100	2.7		1.4	4.2





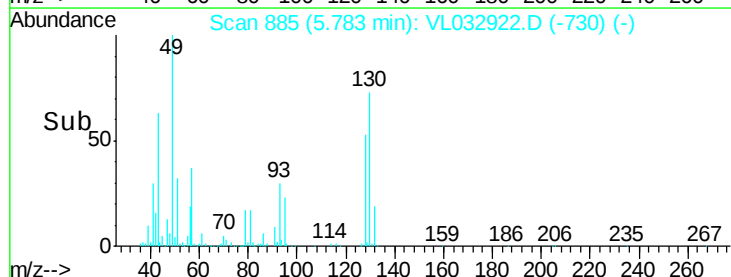
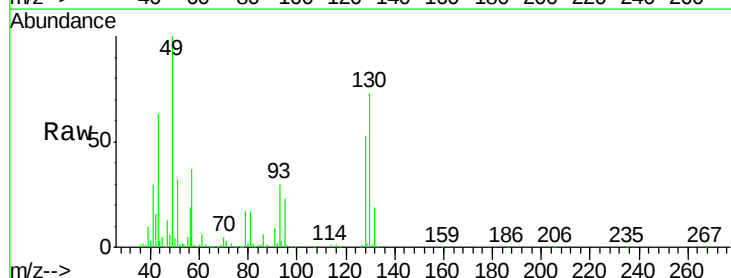
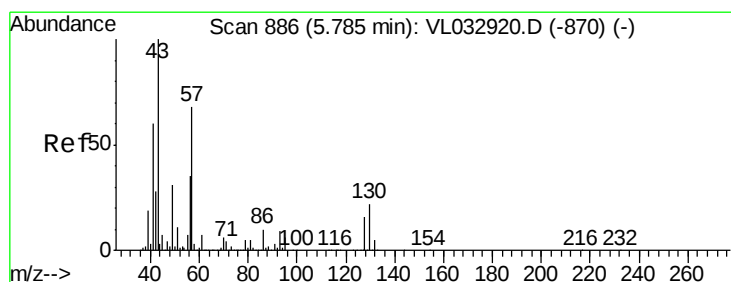
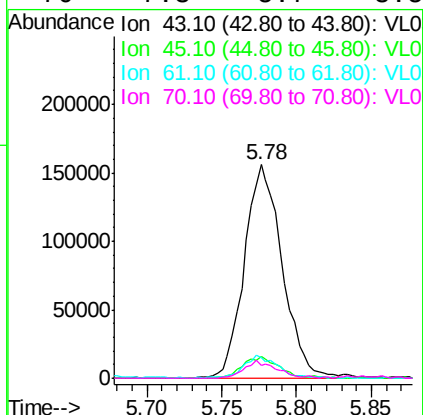
#25
Ethyl Acetate
Concen: 0.988 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	9.6	7.4	11.2
70	7.3	5.7	8.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

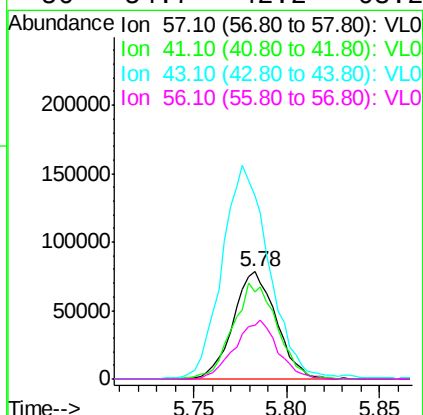
Manual Integrations
APPROVED

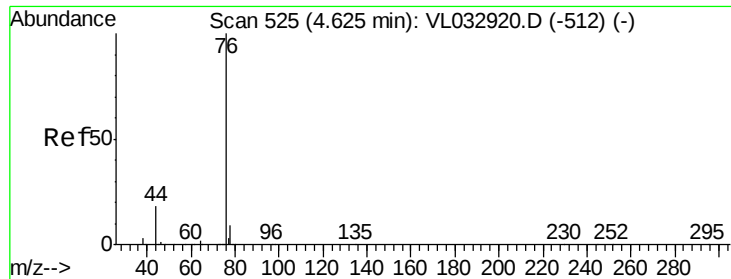
MMDadoda
12/11/2018 10:08:11 AM



#26
Hexane
Concen: 0.970 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.7	72.2	108.2
43	219.8	171.9	257.9
56	54.7	42.2	63.2





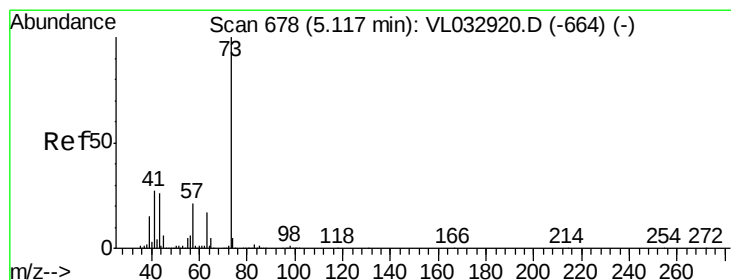
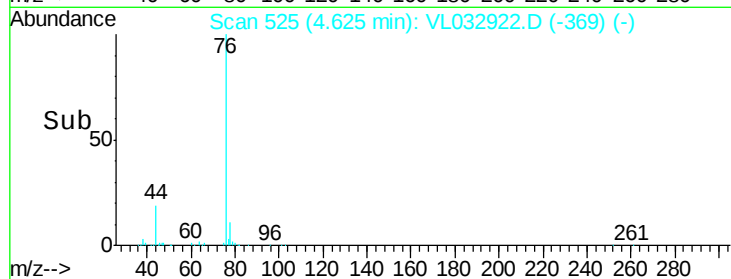
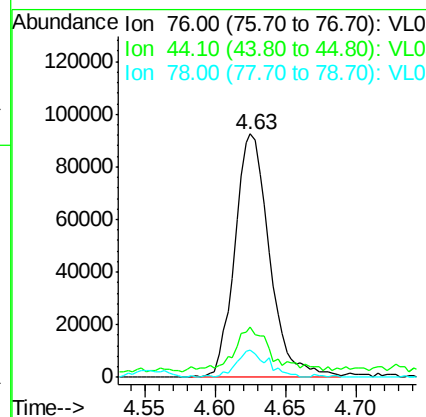
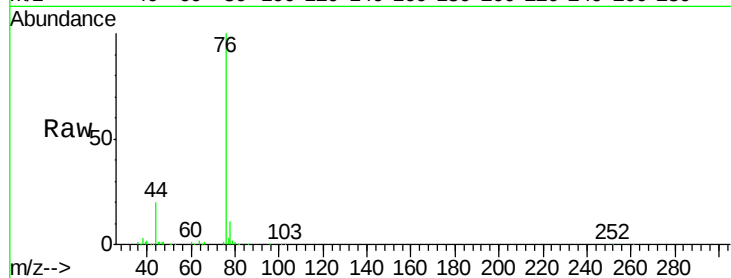
#27
Carbon Disulfide
Concen: 0.954 ppbv m
RT: 4.63 min Scan# 525
Delta R.T. 0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
76	100		
44	26.8	14.7	22.1#
78	10.5	7.4	11.2

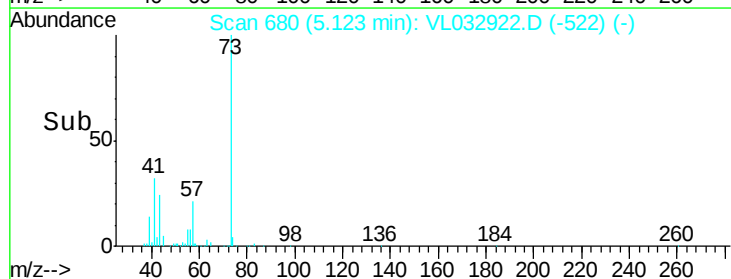
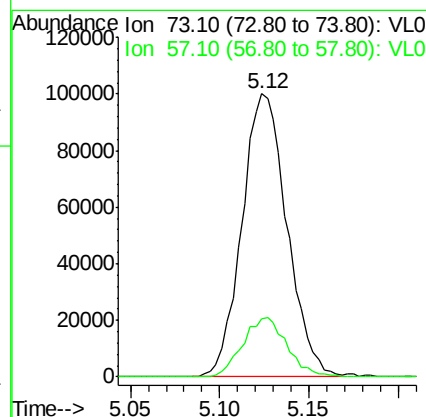
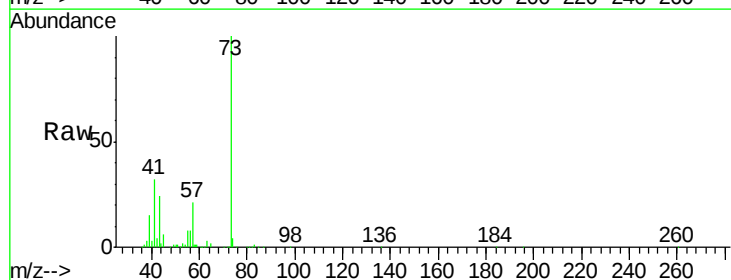
Manual Integrations
APPROVED

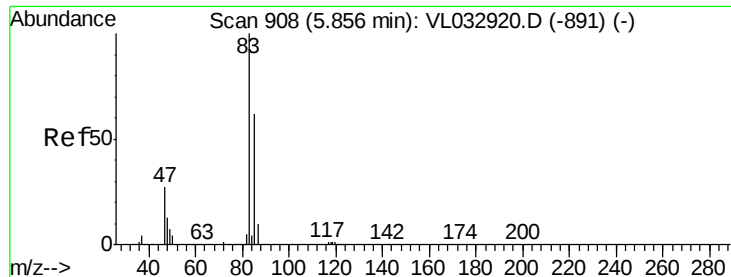
MMDadoda
12/11/2018 10:08:11 AM



#28
Methyl tert-Butyl Ether
Concen: 0.845 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.01 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
73	100		
57	20.8	17.4	26.0





#29

Chloroform

Concen: 1.044 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 83 Resp: 226055

Ion Ratio Lower Upper

83 100

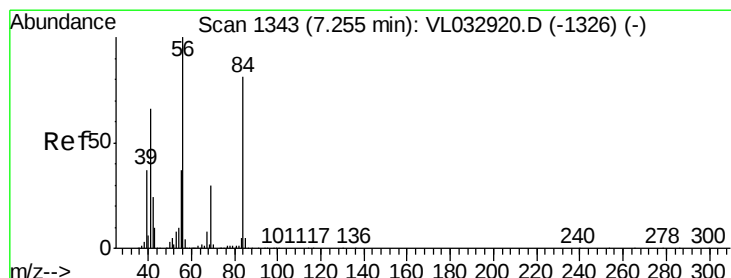
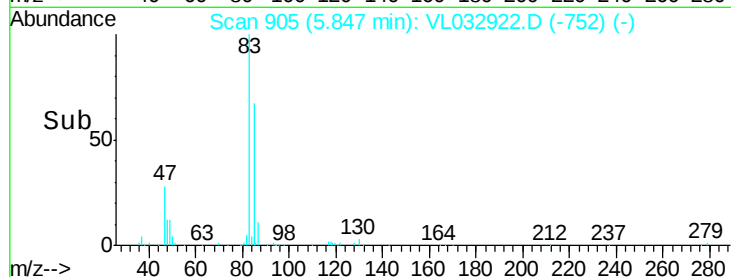
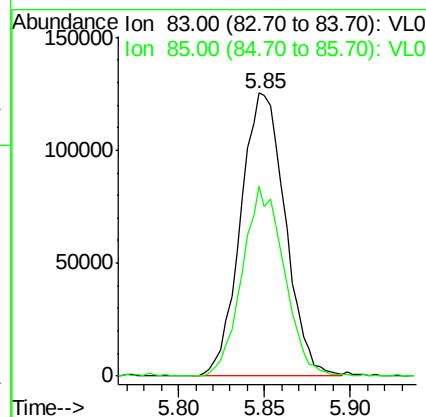
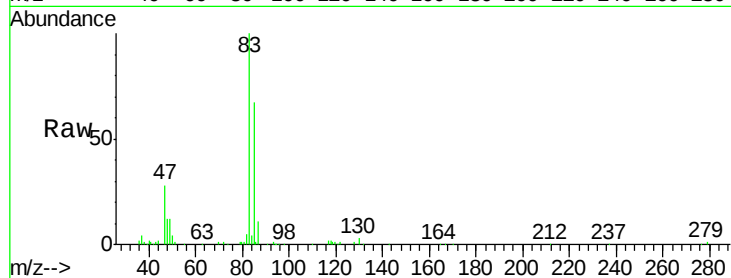
85 67.0 49.8 74.8

Manual Integrations

APPROVED

MMDadoda

12/11/2018 10:08:11 AM



#30

Cyclohexane

Concen: 0.905 ppbv m

RT: 7.26 min Scan# 1343

Delta R.T. 0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

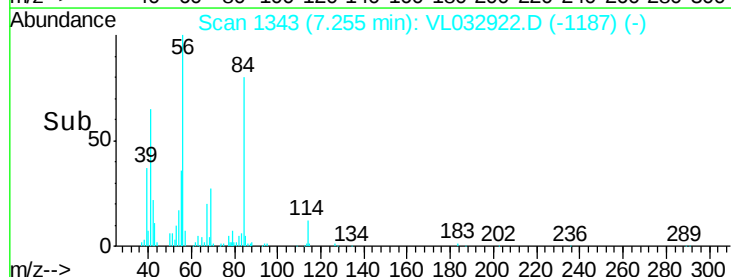
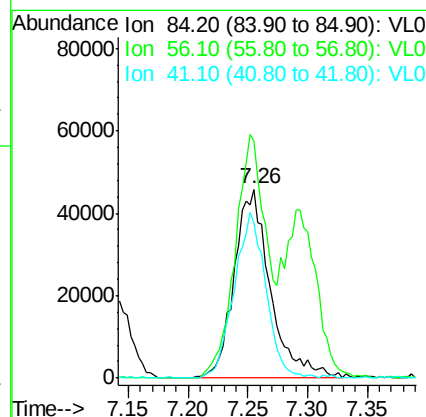
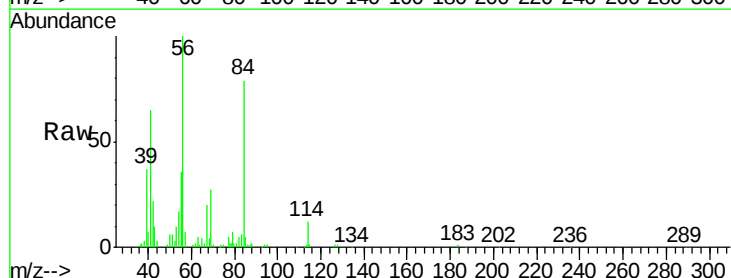
Tgt Ion: 84 Resp: 96321

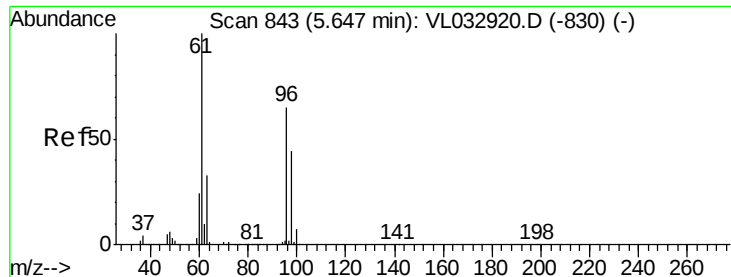
Ion Ratio Lower Upper

84 100

56 0.0 102.5 153.7#

41 0.0 64.1 96.1#





#31

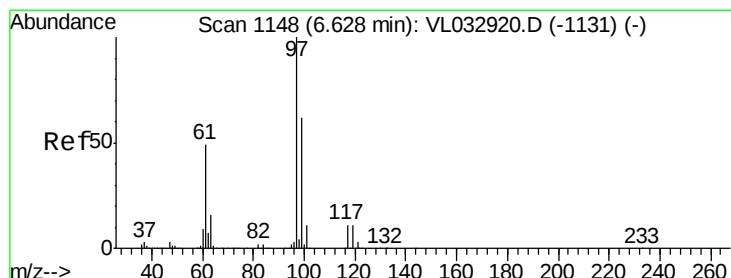
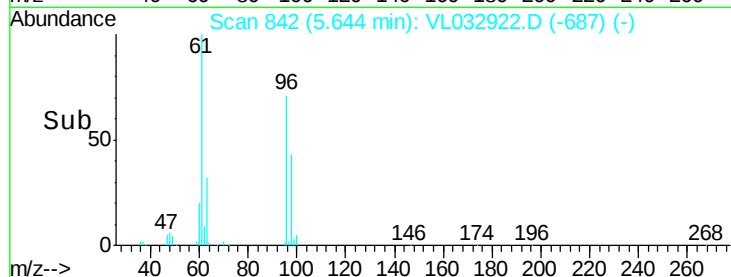
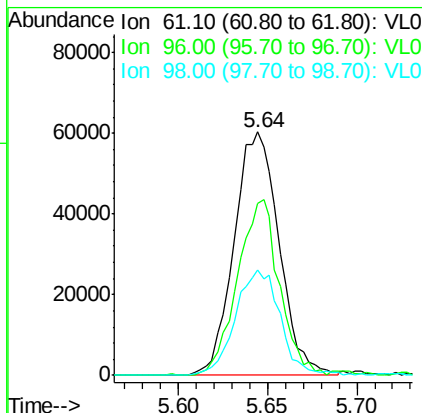
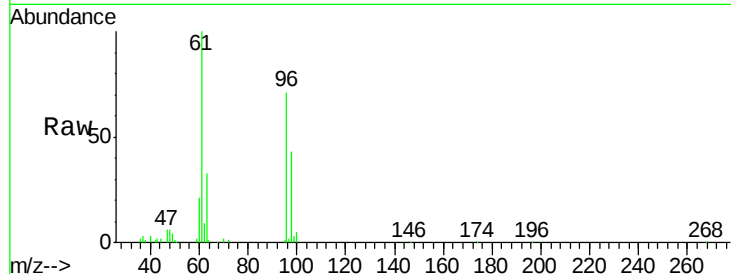
cis-1,2-Dichloroethene
Concen: 0.893 ppbv
RT: 5.64 min Scan# 842
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
61	100	106000		
96	70.8	51.9	77.9	
98	43.2	35.0	52.4	

Manual Integrations
APPROVED

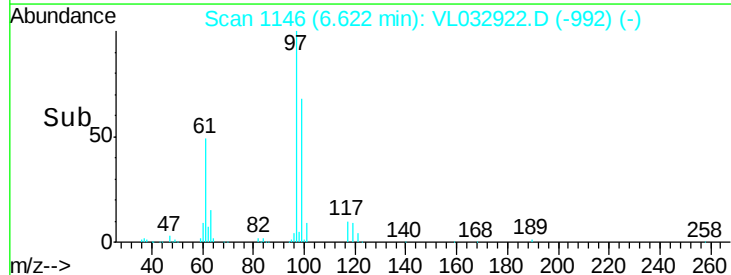
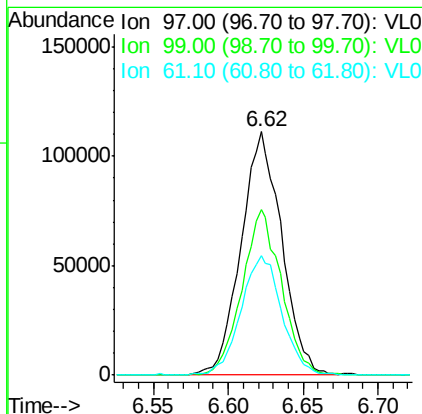
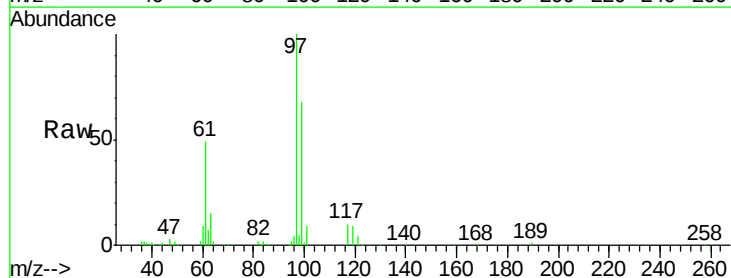
MMDadoda
12/11/2018 10:08:11 AM

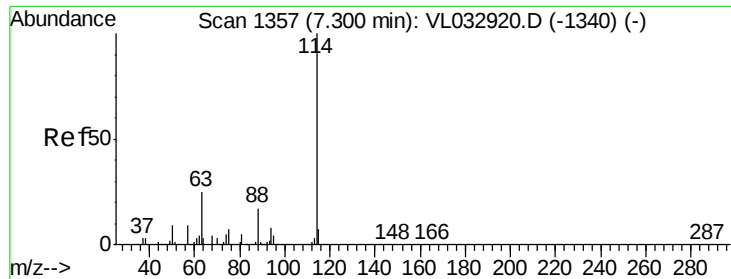


#32

1,1,1-Trichloroethane
Concen: 0.867 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. -0.01 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	210277		
99	65.9	51.1	76.7	
61	49.3	39.3	58.9	





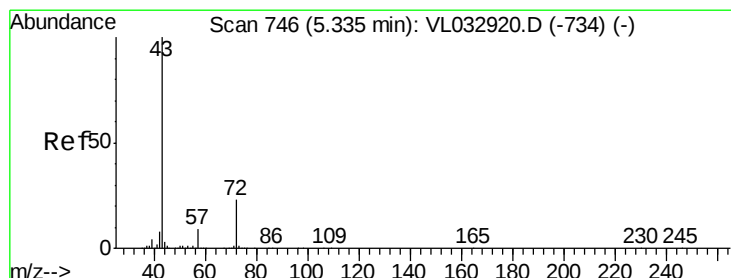
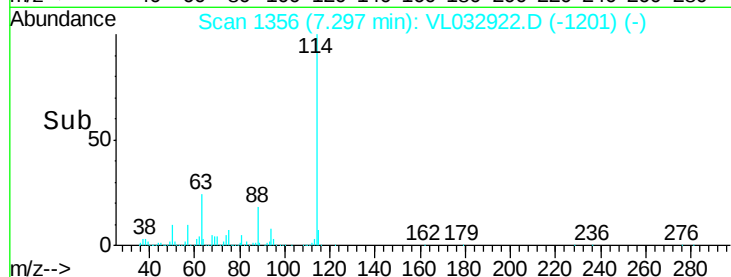
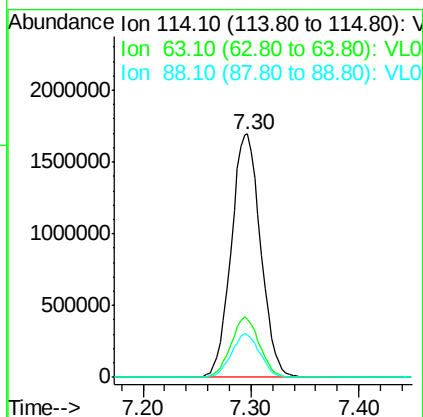
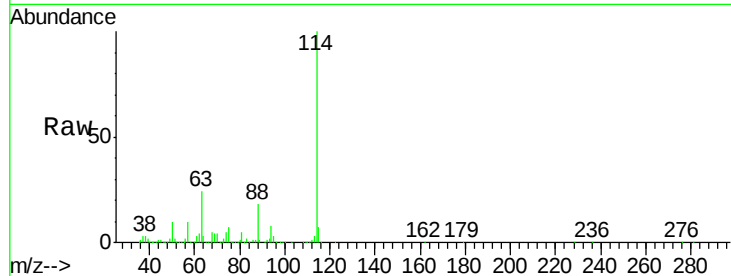
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:114 Resp: 3216028
 Ion Ratio Lower Upper
 114 100
 63 24.3 20.1 30.1
 88 17.6 14.2 21.4

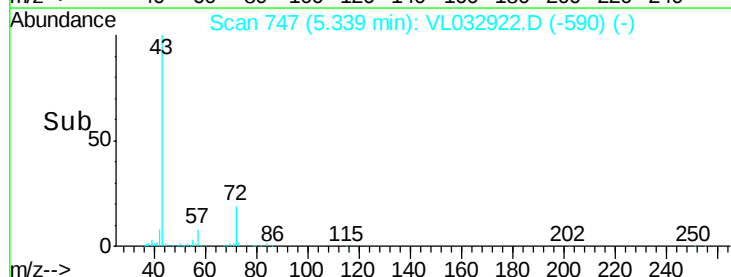
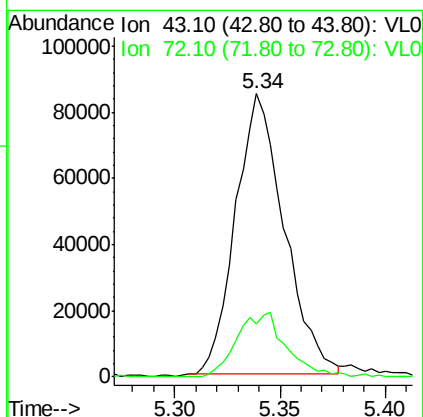
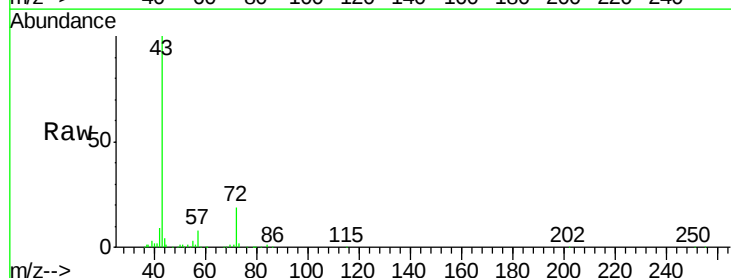
Manual Integrations
 APPROVED

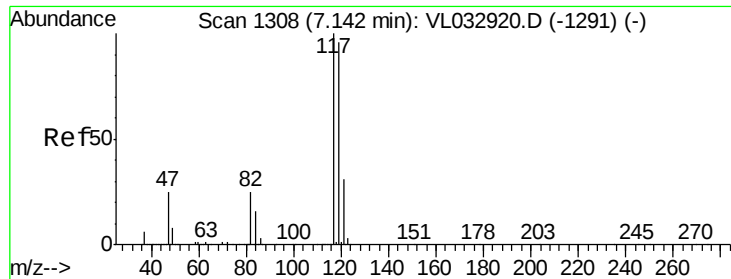
MMDadoda
 12/11/2018 10:08:11 AM



#34
 2-Butanone
 Concen: 0.854 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion: 43 Resp: 135955
 Ion Ratio Lower Upper
 43 100
 72 23.6 18.8 28.2





#35

Carbon Tetrachloride

Concen: 0.987 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

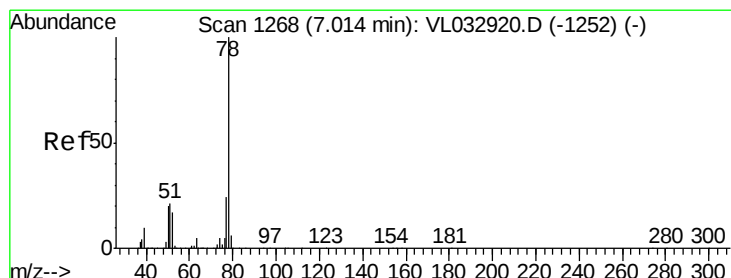
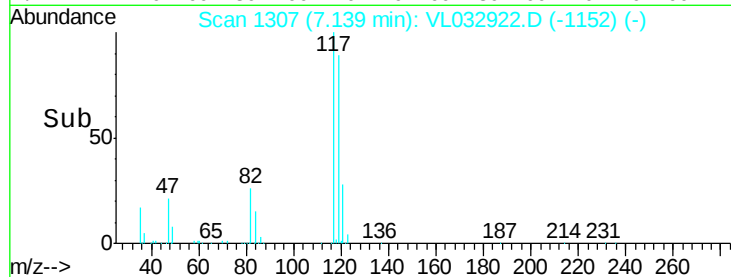
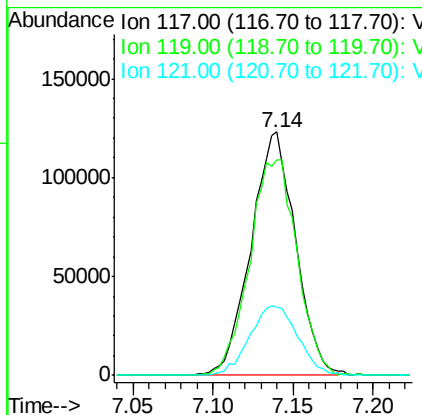
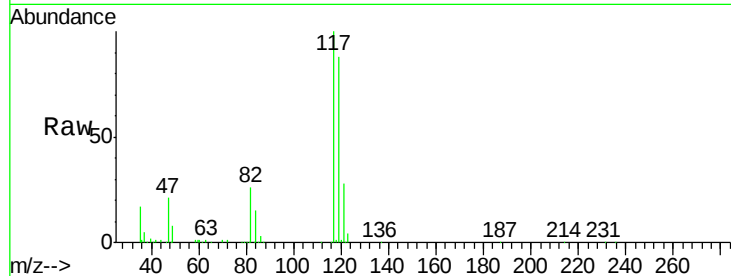
ClientSampleId :

VSTDIC001

Tgt Ion:	117	Resp:	236041
Ion Ratio	Lower	Upper	
117	100		
119	88.4	76.5	114.7
121	28.2	24.5	36.7

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



#36

Benzene

Concen: 0.935 ppbv

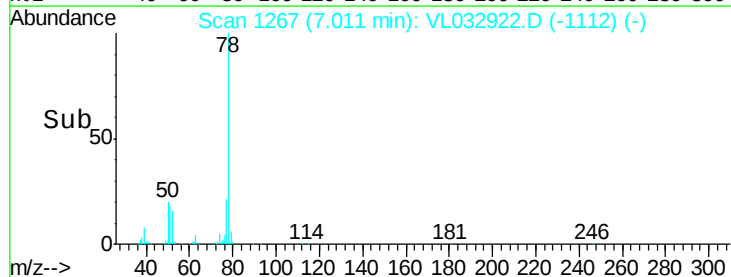
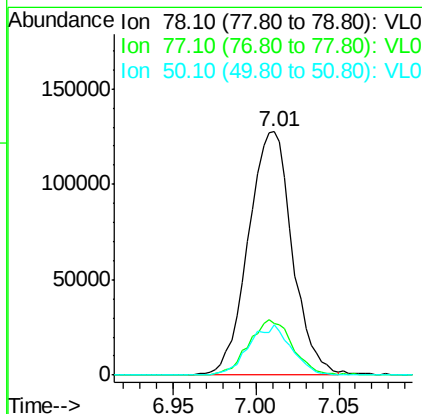
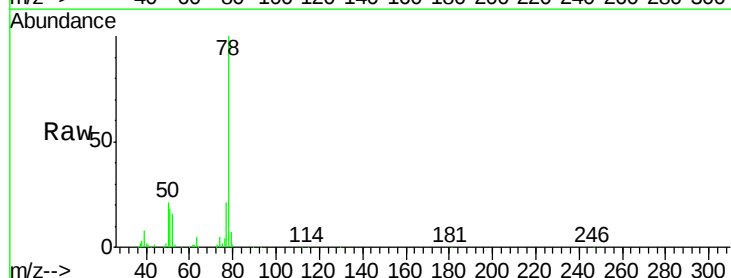
RT: 7.01 min Scan# 1267

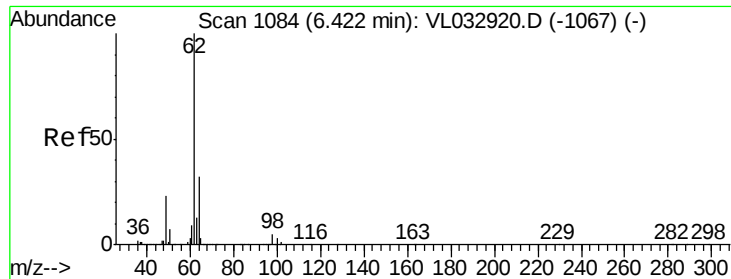
Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion:	78	Resp:	235681
Ion Ratio	Lower	Upper	
78	100		
77	21.4	18.9	28.3
50	20.5	16.1	24.1





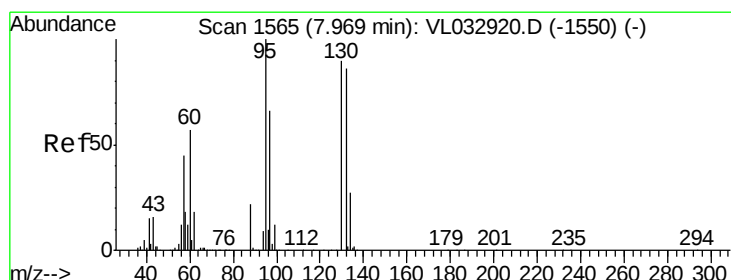
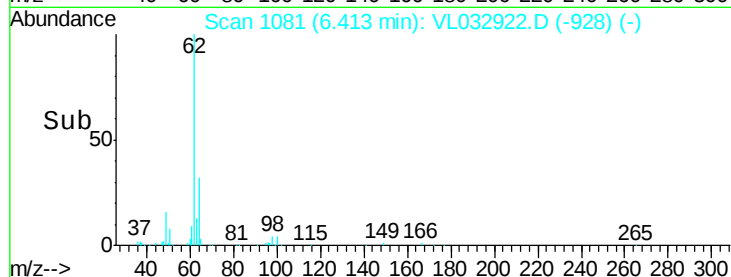
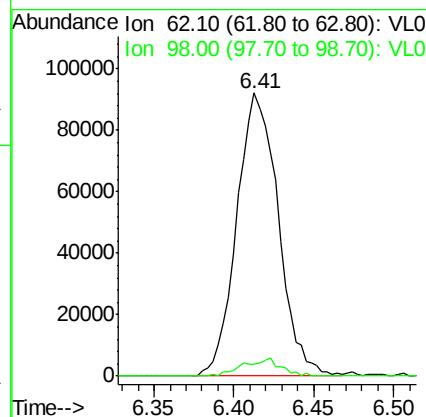
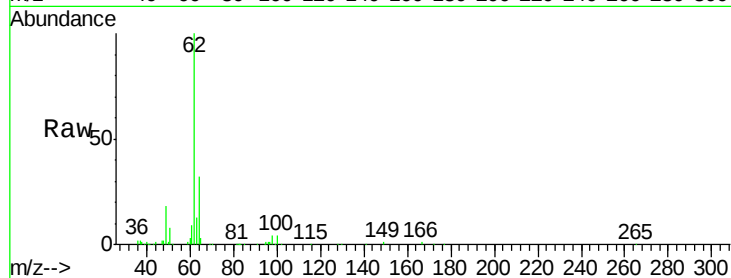
#37
 1,2-Dichloroethane
 Concen: 1.005 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.01 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.8	4.3	6.5

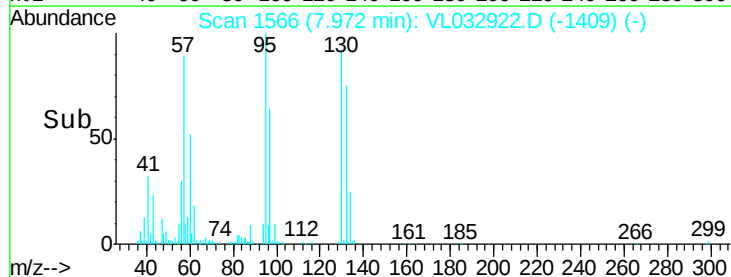
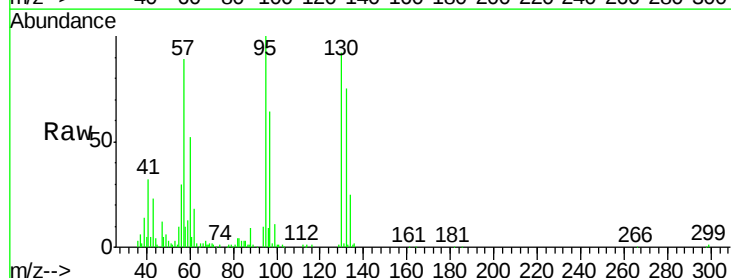
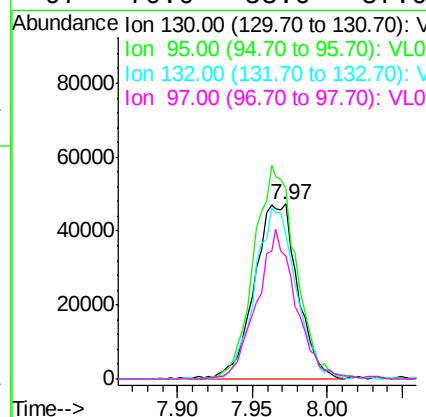
Manual Integrations
 APPROVED

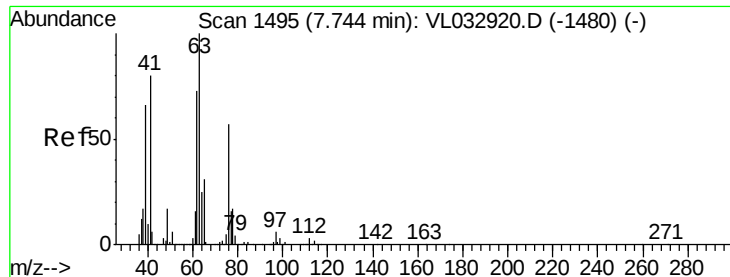
MMDadoda
 12/11/2018 10:08:11 AM



#38
 Trichloroethene
 Concen: 0.947 ppbv m
 RT: 7.97 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	109.1	88.6	132.8
132	82.1	76.1	114.1
97	70.0	58.0	87.0





#39

1,2-Dichloropropane

Concen: 0.969 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

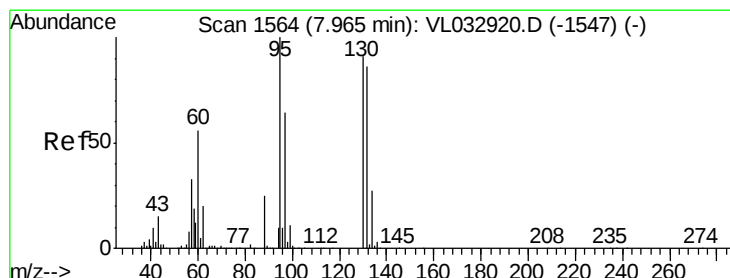
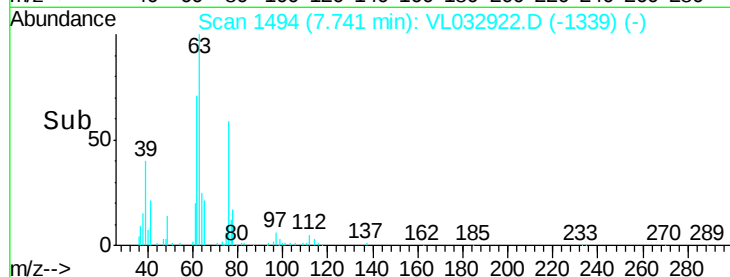
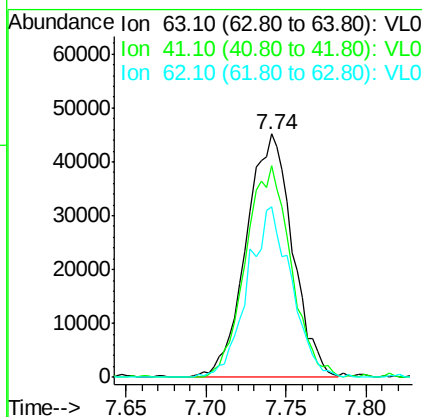
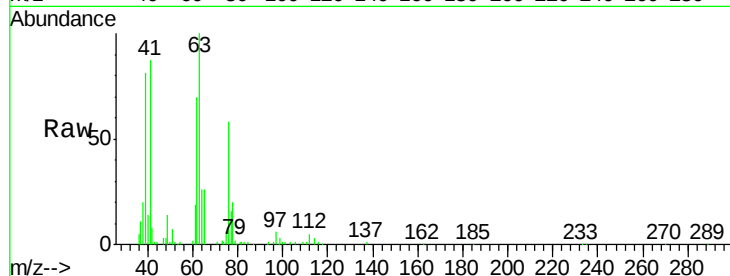
ClientSampleId :

VSTDIC001

Tgt Ion:	63	Resp:	89477
Ion Ratio	Lower	Upper	
63	100		
41	86.8	63.9	95.9
62	70.2	58.8	88.2

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



#40

1,4-Dioxane

Concen: 0.959 ppbv m

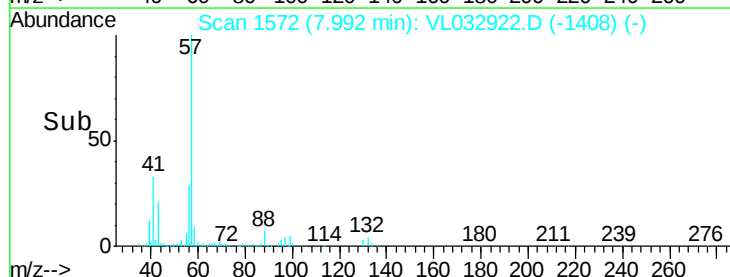
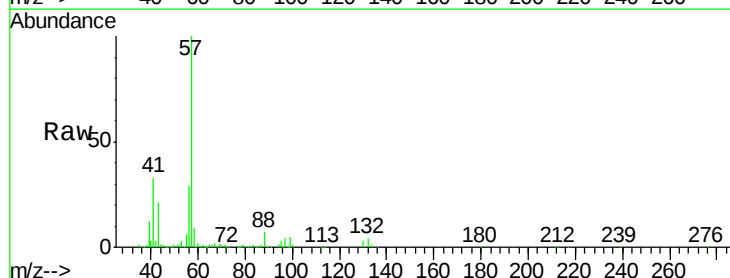
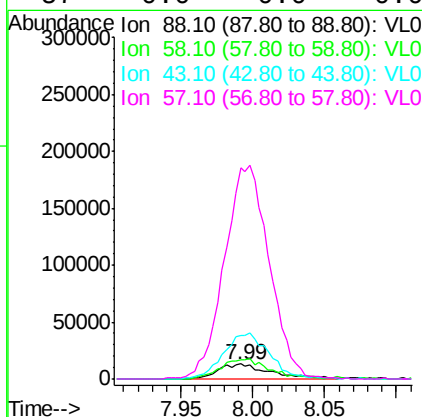
RT: 7.99 min Scan# 1572

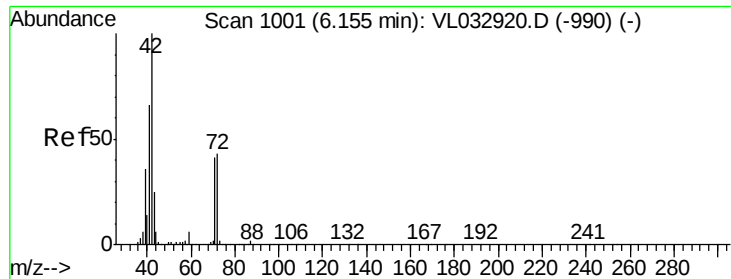
Delta R.T. 0.03 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion:	88	Resp:	33443
Ion Ratio	Lower	Upper	
88	100		
58	0.0	107.4	161.2#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





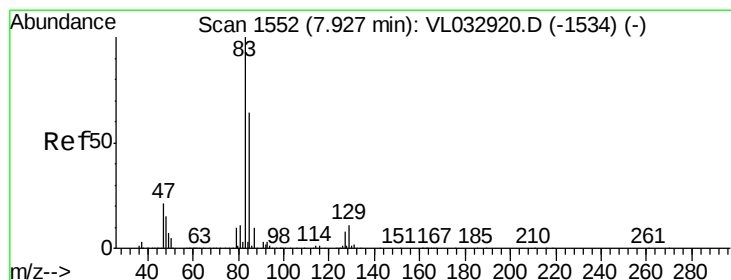
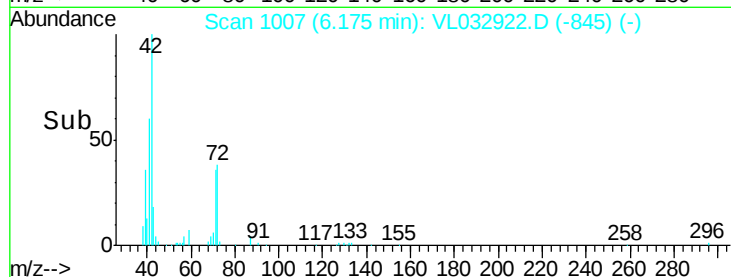
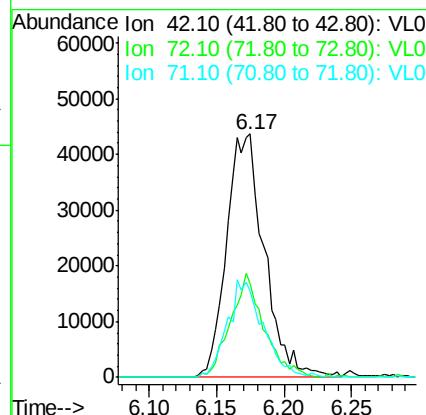
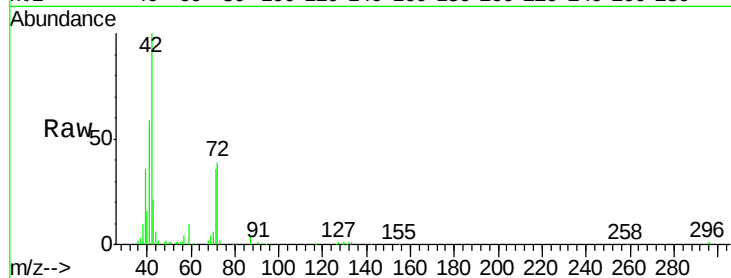
#41
Tetrahydrofuran
Concen: 0.937 ppbv m
RT: 6.17 min Scan# 1007
Delta R.T. 0.02 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.9	49.3#
71	38.1	32.0	48.0

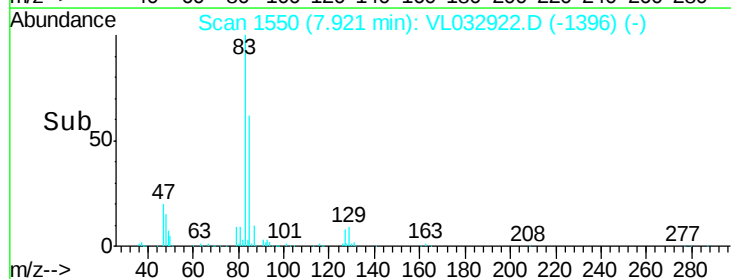
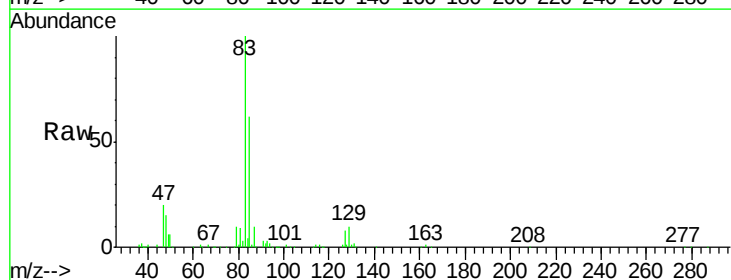
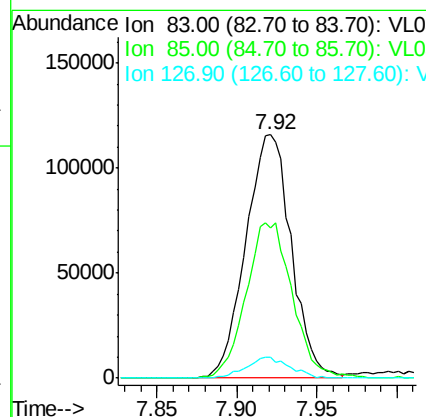
Manual Integrations
APPROVED

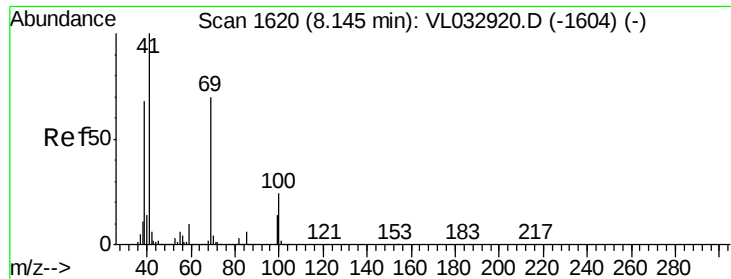
MMDadoda
12/11/2018 10:08:11 AM



#42
Bromodichloromethane
Concen: 1.002 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. -0.01 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.9	50.9	76.3
127	8.4	6.7	10.1





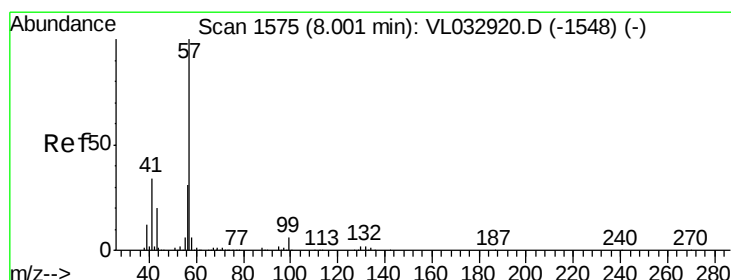
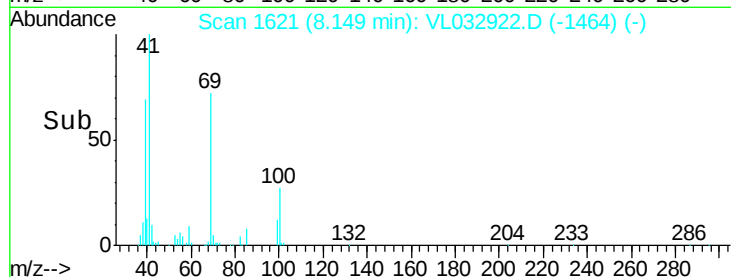
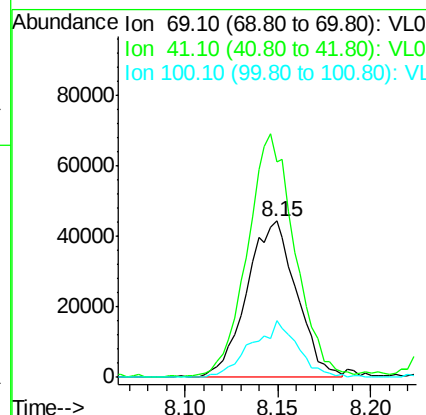
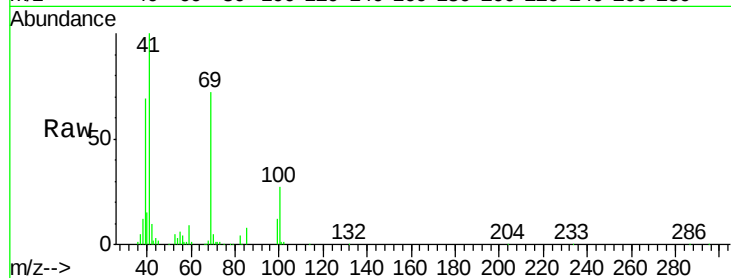
#43
Methyl Methacrylate
Concen: 0.875 ppbv
RT: 8.15 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
69	100		
41	153.2	116.6	175.0
100	34.5	26.5	39.7

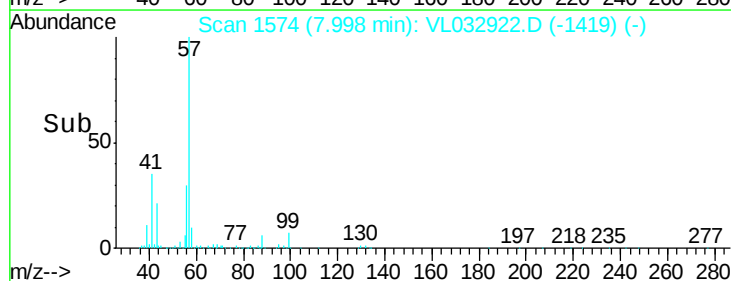
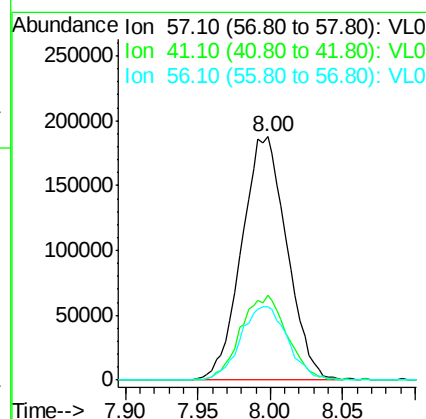
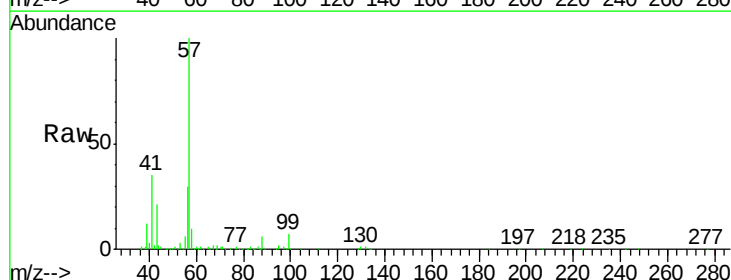
Manual Integrations
APPROVED

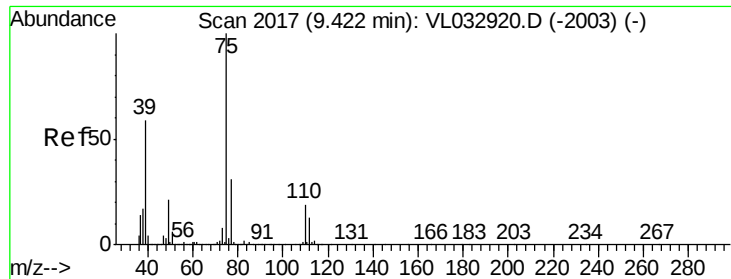
MMDadoda
12/11/2018 10:08:11 AM



#44
2,2,4-Trimethylpentane
Concen: 0.982 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.5	27.0	40.4
56	31.8	24.6	37.0





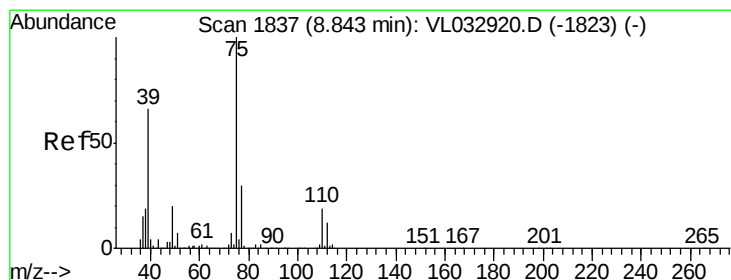
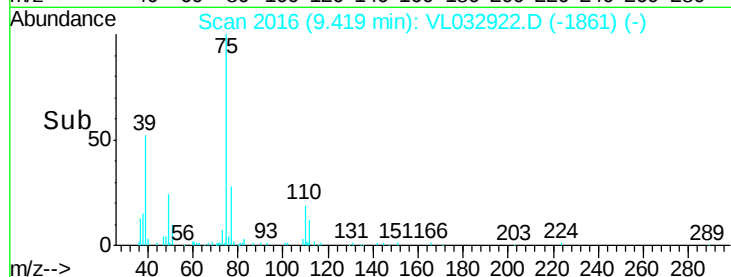
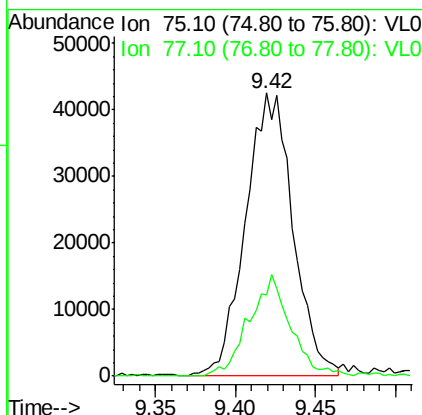
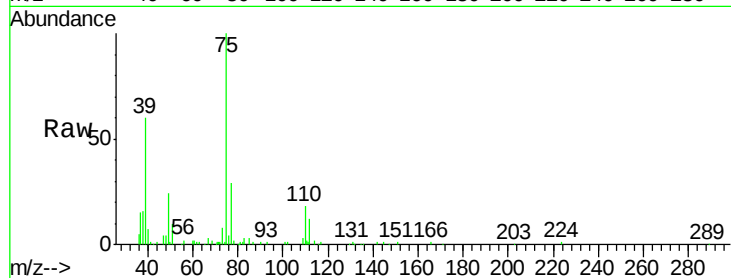
#45
 t-1,3-Dichloropropene
 Concen: 0.707 ppbv
 RT: 9.42 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 75 Resp: 86514
 Ion Ratio Lower Upper
 75 100
 77 28.6 24.8 37.2

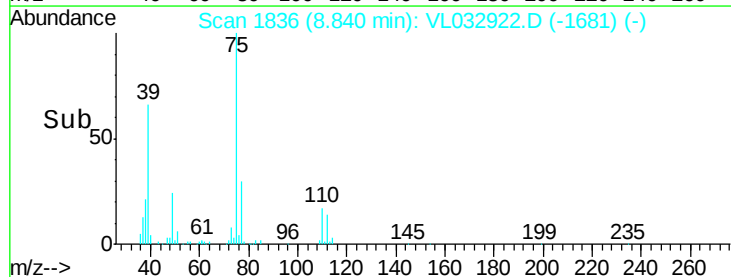
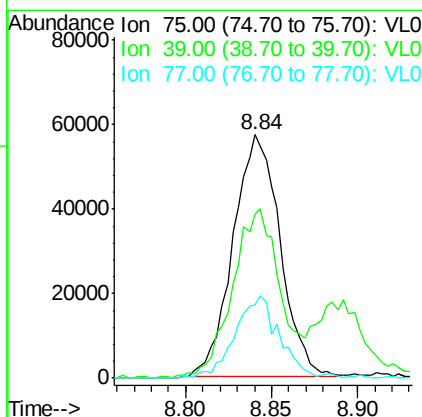
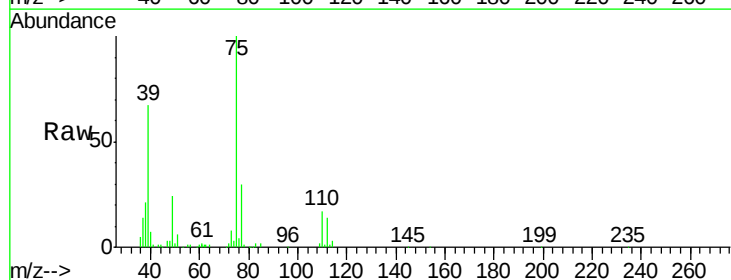
Manual Integrations
 APPROVED

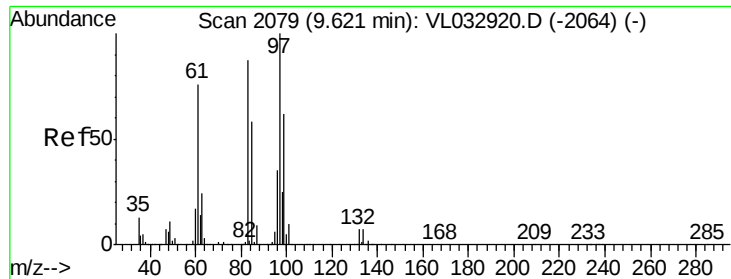
MMDadoda
 12/11/2018 10:08:11 AM



#46
 cis-1,3-Dichloropropene
 Concen: 0.785 ppbv
 RT: 8.84 min Scan# 1836
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion: 75 Resp: 108936
 Ion Ratio Lower Upper
 75 100
 39 65.8 52.8 79.2
 77 29.5 24.3 36.5





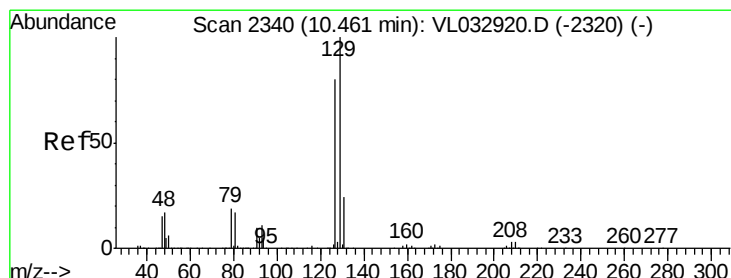
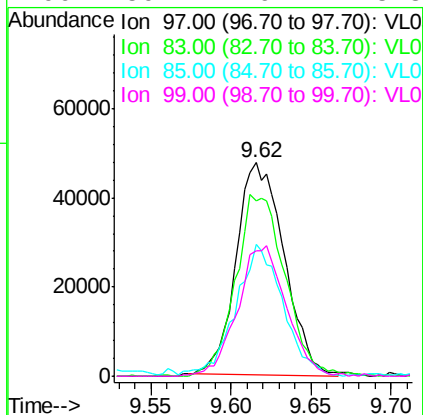
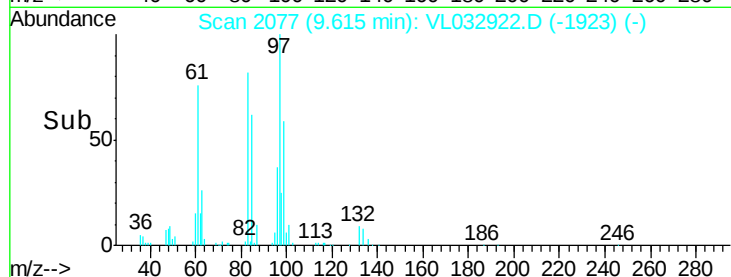
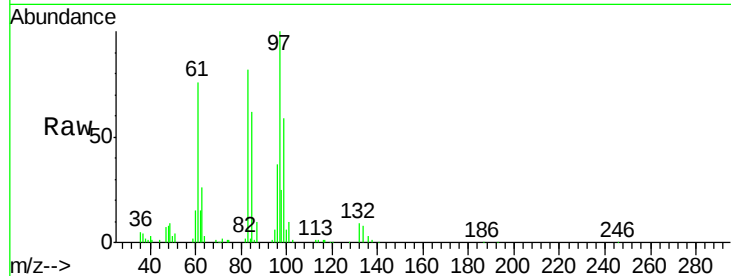
#47
 1,1,2-Trichloroethane
 Concen: 0.893 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
97	100		
83	82.7	69.8	104.8
85	61.7	46.7	70.1
99	59.1	49.2	73.8

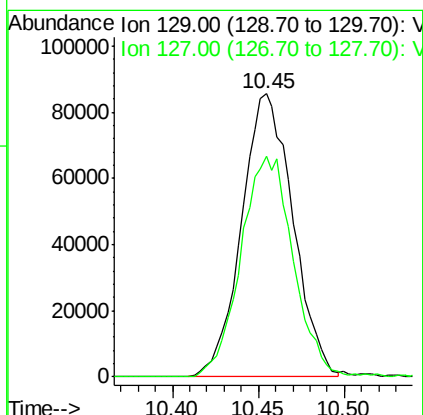
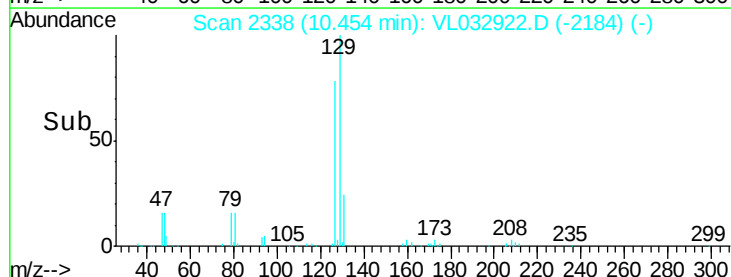
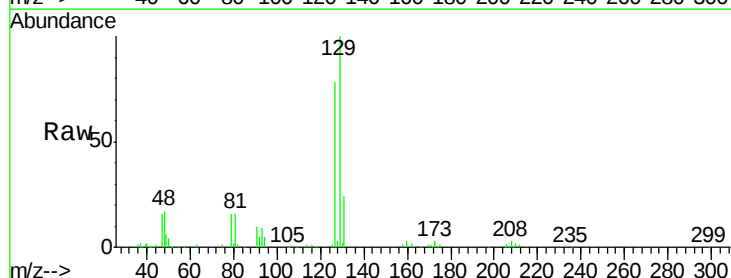
Manual Integrations
 APPROVED

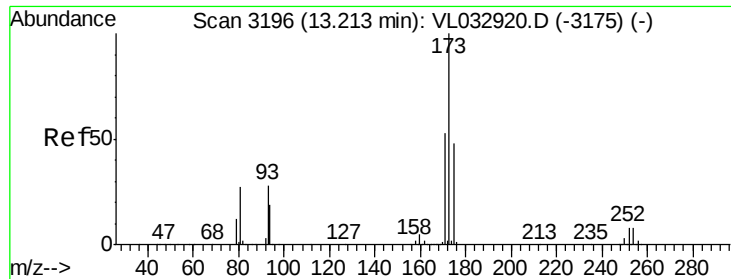
MMDadoda
 12/11/2018 10:08:11 AM



#48
 Dibromochloromethane
 Concen: 0.879 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.01 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.7	39.3	117.8





#49

Bromoform

Concen: 0.847 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

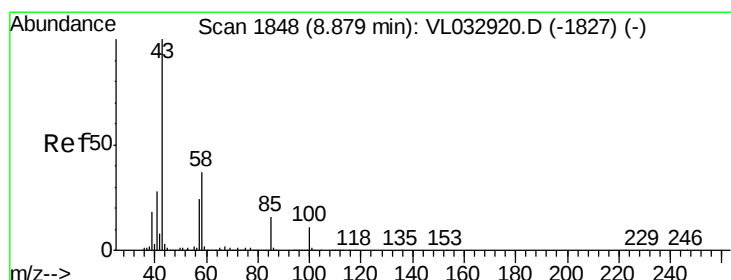
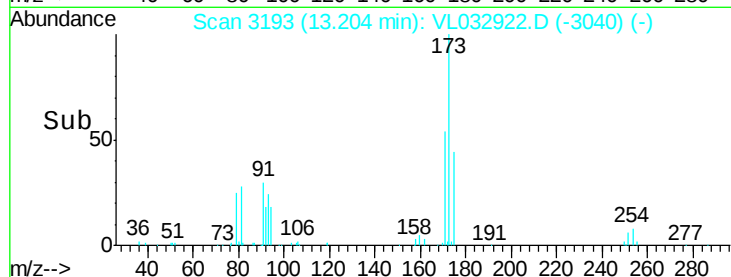
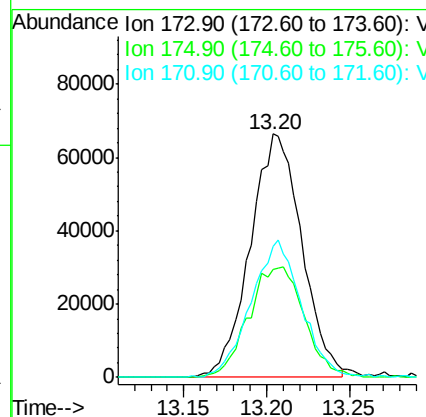
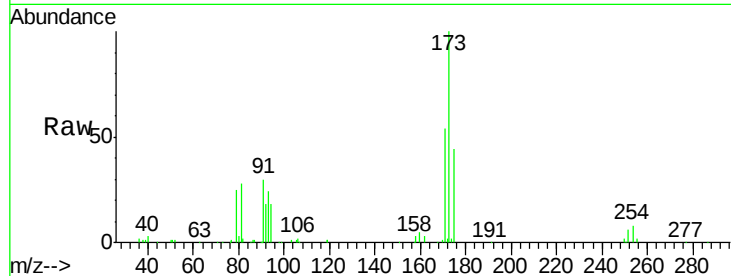
ClientSampleId :

VSTDIC001

Tgt Ion:	173	Resp:	143385
Ion Ratio	Lower	Upper	
173	100		
175	49.1	39.0	58.4
171	55.4	41.5	62.3

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



#50

4-Methyl-2-Pentanone

Concen: 0.884 ppbv

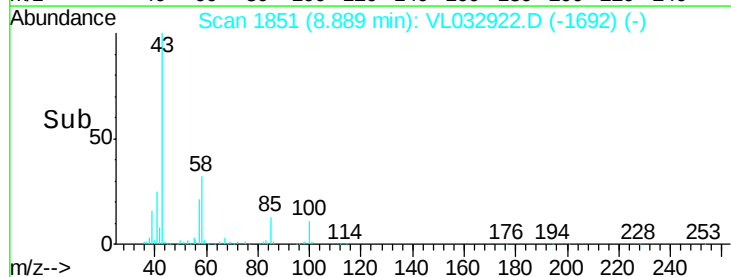
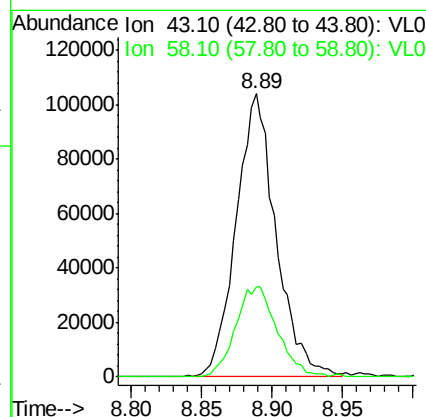
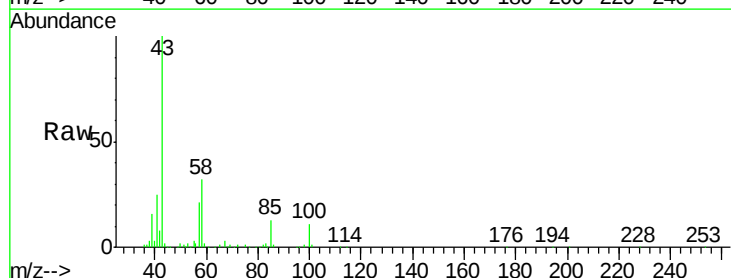
RT: 8.89 min Scan# 1851

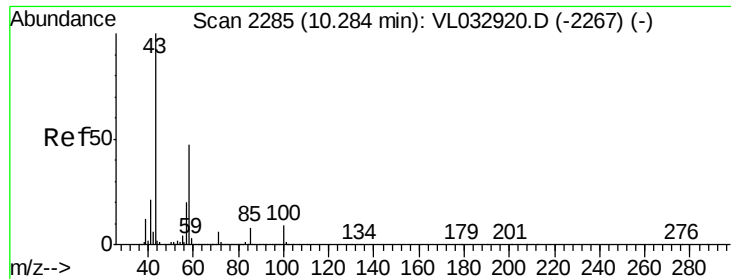
Delta R.T. 0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion:	43	Resp:	205905
Ion Ratio	Lower	Upper	
43	100		
58	33.5	29.0	43.4





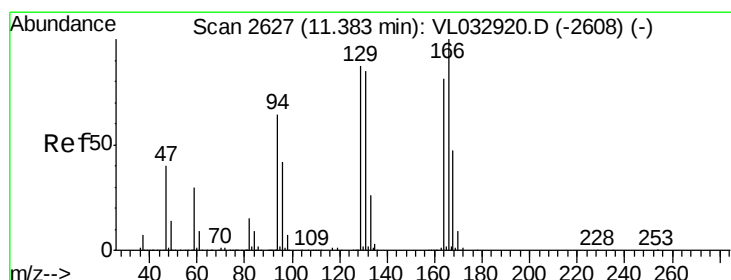
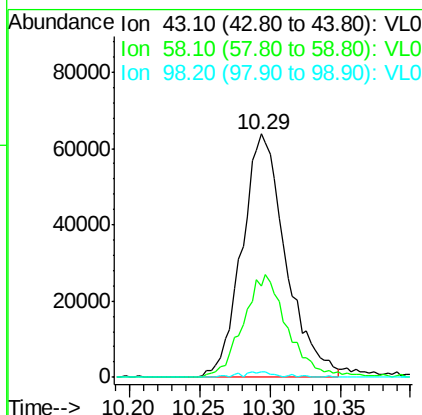
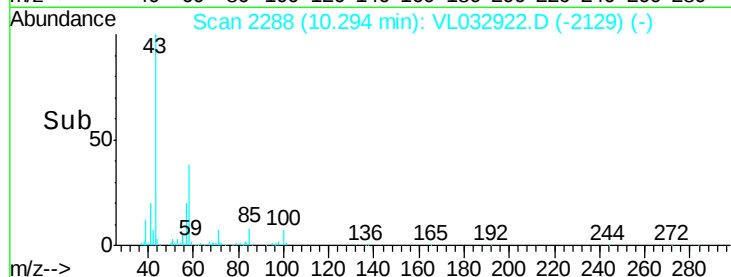
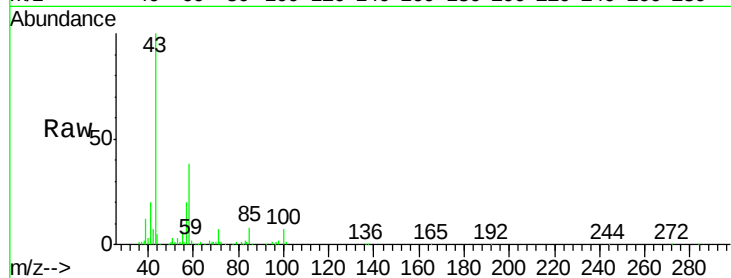
#51
2-Hexanone
Concen: 0.808 ppbv
RT: 10.29 min Scan# 2288
Delta R.T. 0.01 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.2	38.1	57.1
98	1.8	0.4	0.6

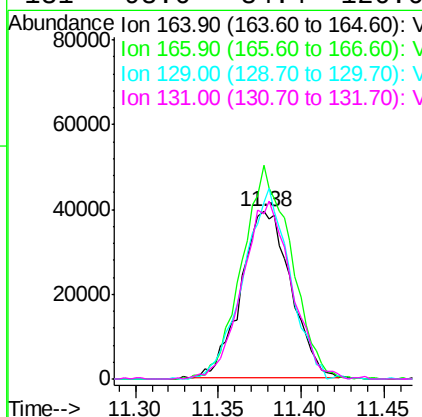
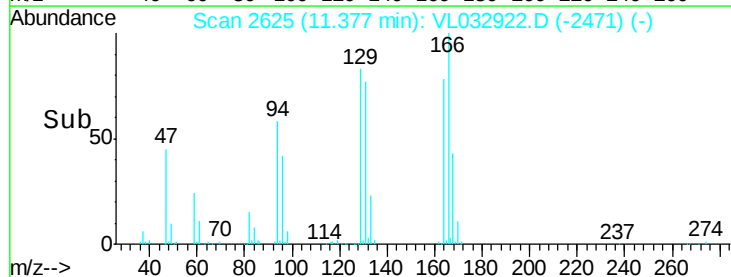
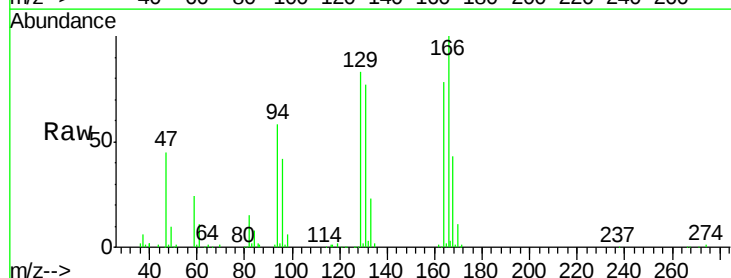
Manual Integrations
APPROVED

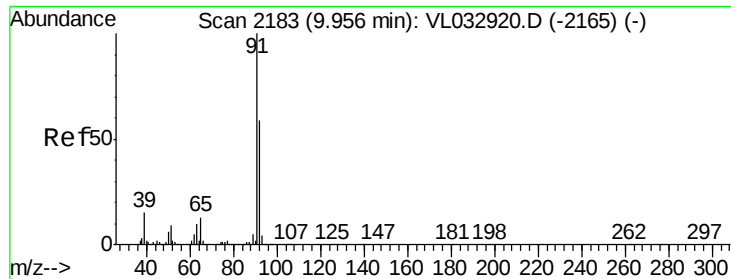
MMDadoda
12/11/2018 10:08:11 AM



#52
Tetrachloroethene
Concen: 0.882 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.01 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	98.8	148.2
129	106.0	85.5	128.3
131	98.6	84.4	126.6





#53

Toluene

Concen: 0.824 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 235142

Ion Ratio Lower Upper

91 100

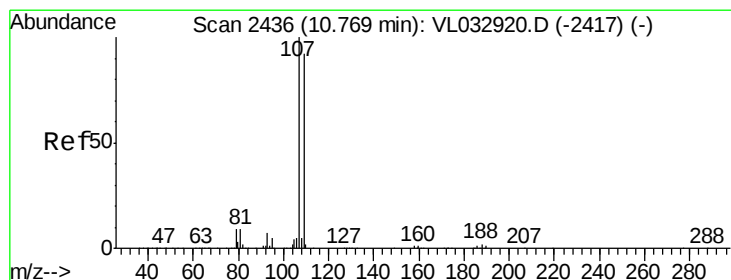
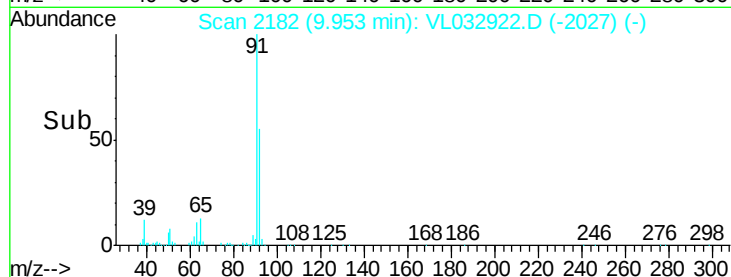
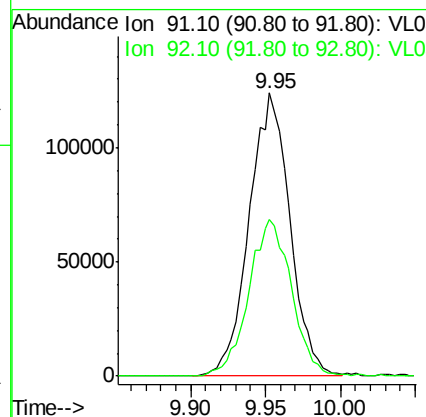
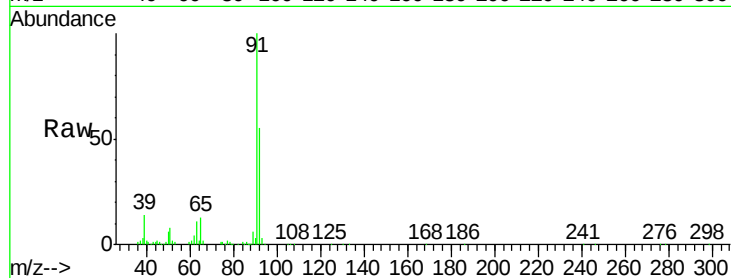
92 58.2 47.4 71.0

Manual Integrations

APPROVED

MMDadoda

12/11/2018 10:08:11 AM



#54

1,2-Dibromoethane

Concen: 0.866 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL032922.D

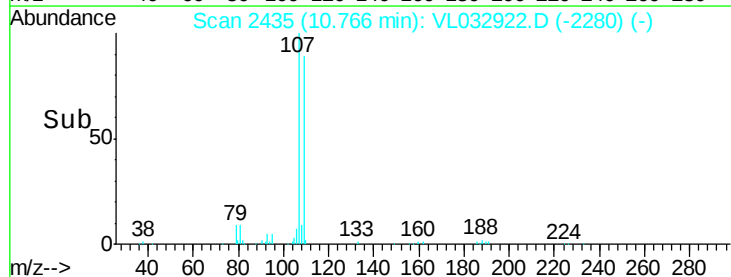
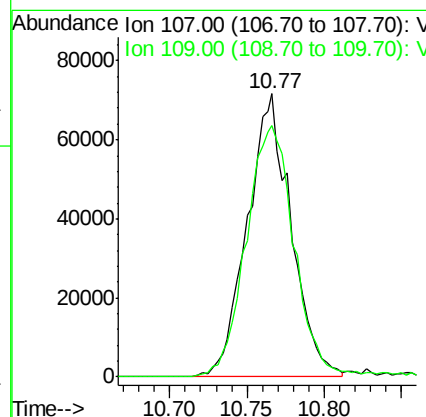
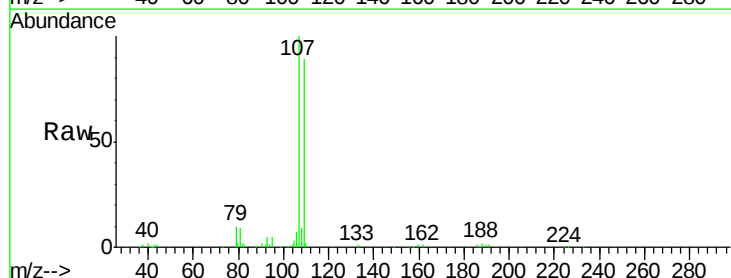
Acq: 7 Dec 2018 4:57

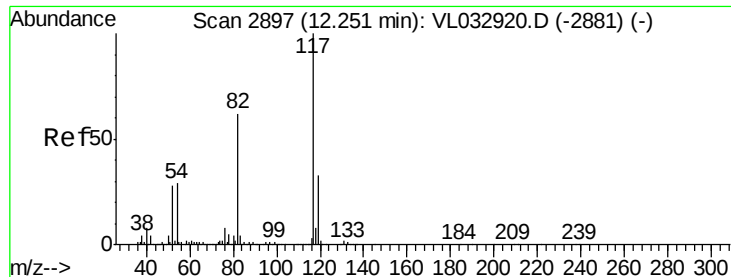
Tgt Ion: 107 Resp: 141011

Ion Ratio Lower Upper

107 100

109 88.7 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 3007611

Ion Ratio Lower Upper

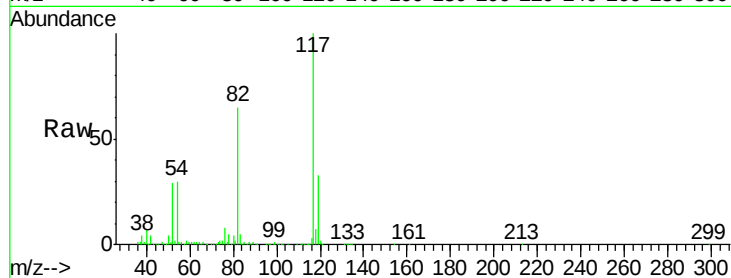
117 100

82 62.3 47.8 71.8

119 34.5 43.1 64.7#

Manual Integrations
APPROVED

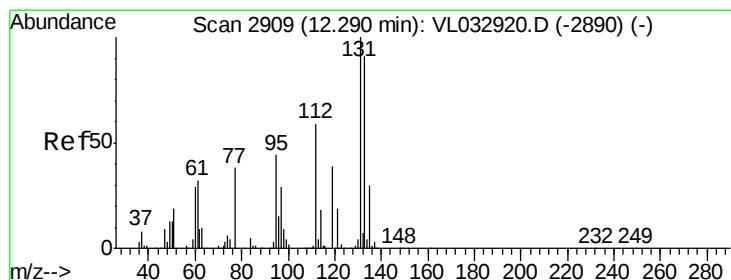
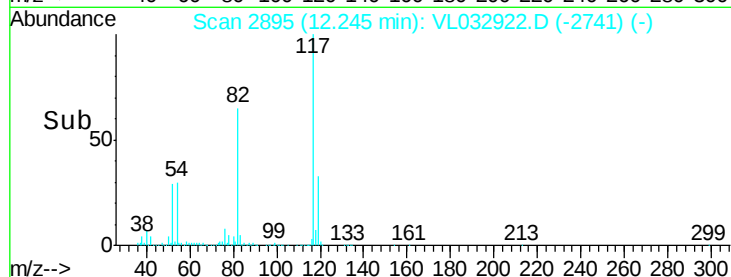
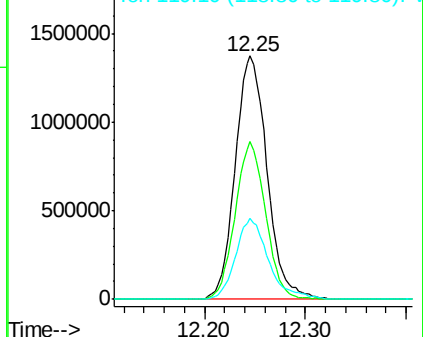
MMDadoda
12/11/2018 10:08:11 AM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 1.054 ppbv

RT: 12.29 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

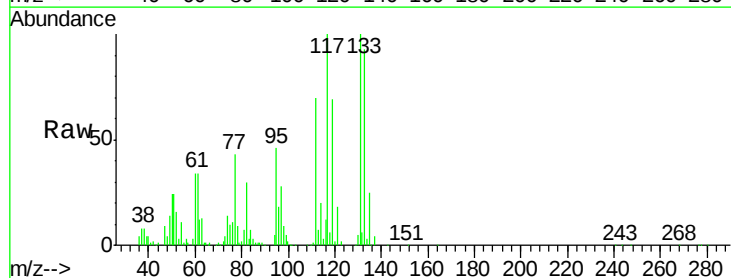
Tgt Ion:131 Resp: 143194

Ion Ratio Lower Upper

131 100

133 96.3 75.1 112.7

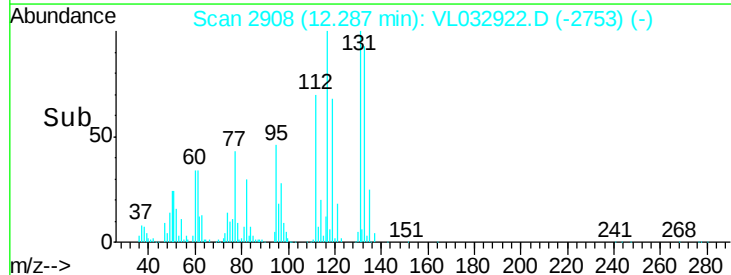
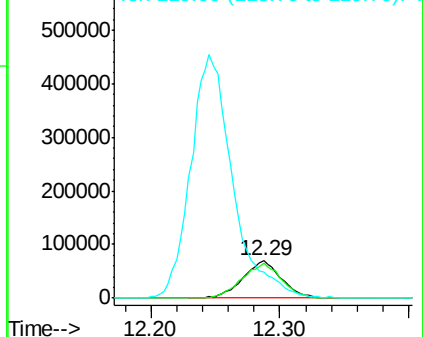
119 723.7 47.5 71.3#

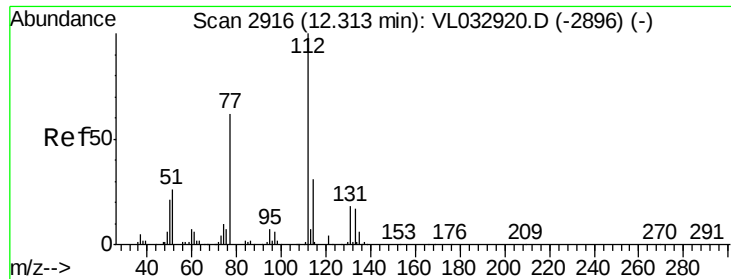


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 1.071 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

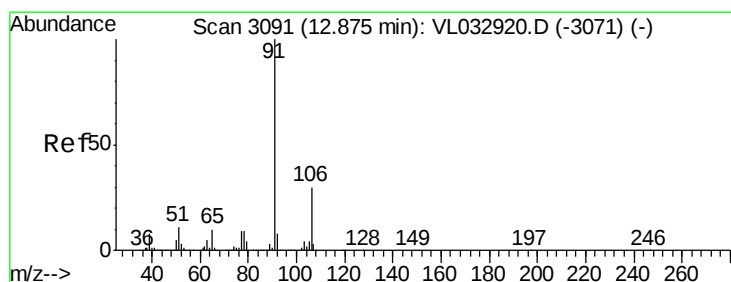
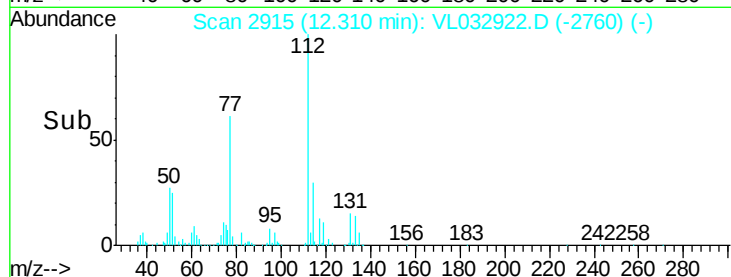
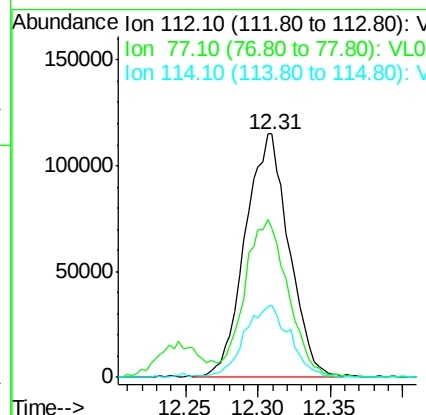
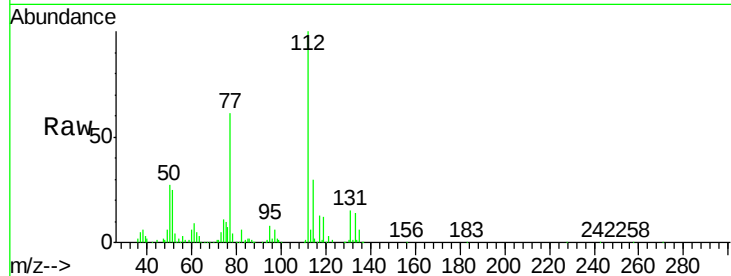
ClientSampleId :

VSTDIC001

Tgt Ion:	112	Resp:	240559
Ion Ratio		Lower	Upper
112	100		
77	60.6	51.1	76.7
114	31.9	28.4	34.7

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



#58

Ethyl Benzene

Concen: 0.919 ppbv

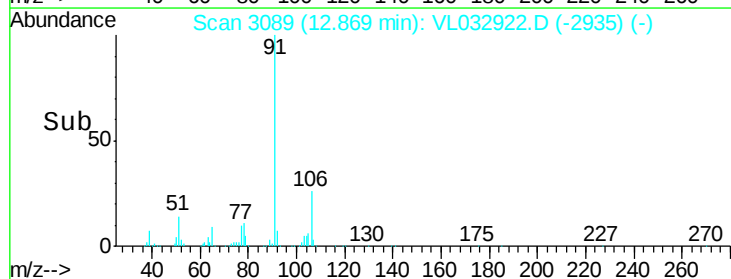
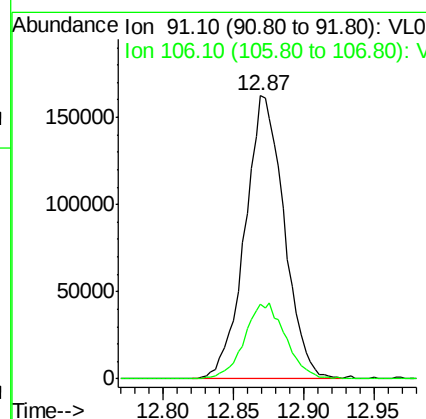
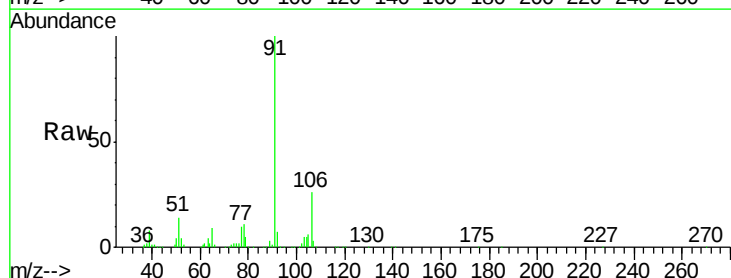
RT: 12.87 min Scan# 3089

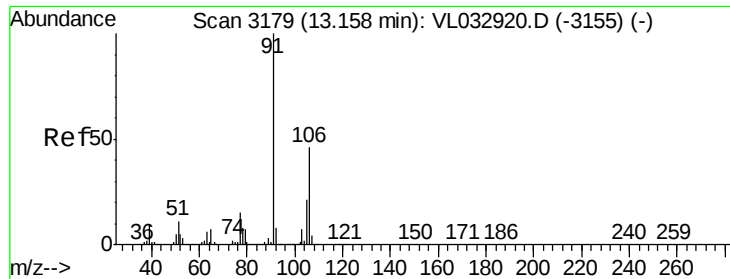
Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion:	91	Resp:	315067
Ion Ratio		Lower	Upper
91	100		
106	26.5	23.9	35.9





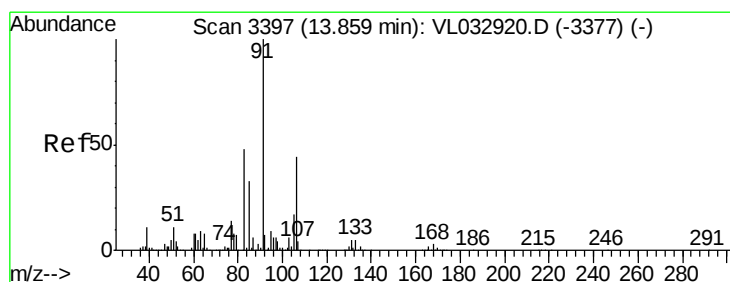
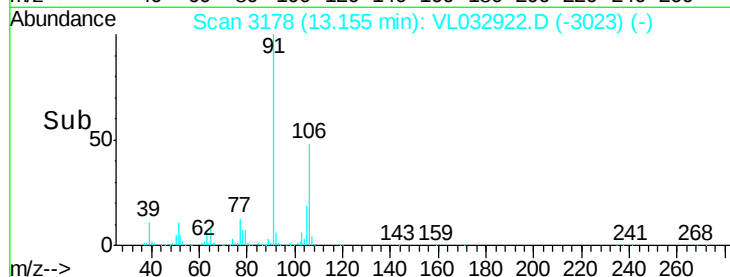
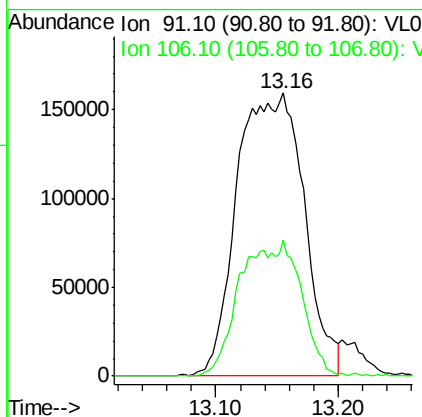
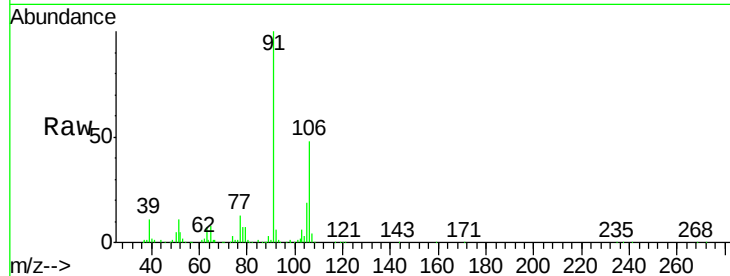
#59
m/p-Xylene
Concen: 1.947 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 602433
Ion Ratio Lower Upper
91 100
106 43.8 0.0 0.0#

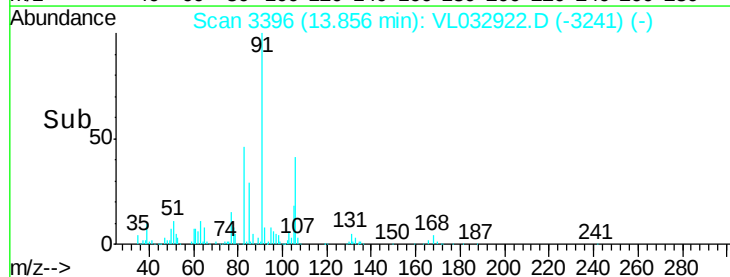
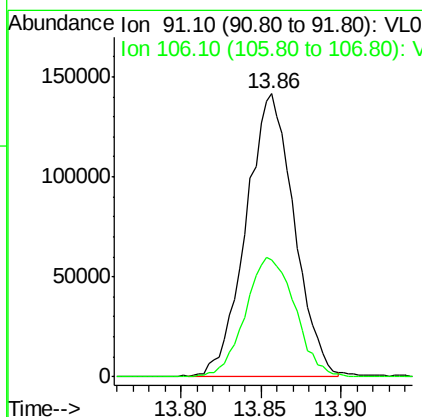
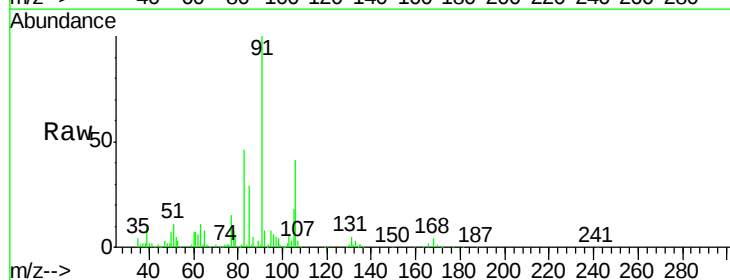
Manual Integrations
APPROVED

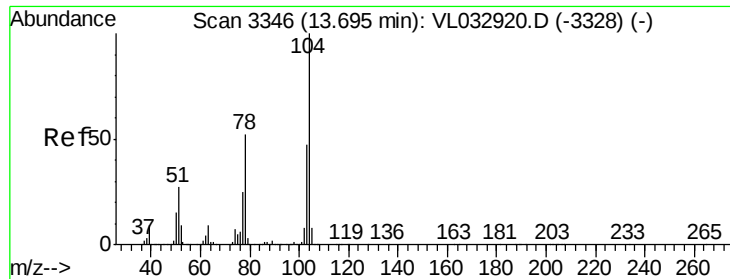
MMDadoda
12/11/2018 10:08:11 AM



#60
o-Xylene
Concen: 0.959 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion: 91 Resp: 289766
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.8





#61

Styrene

Concen: 0.886 ppbv m

RT: 13.69 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

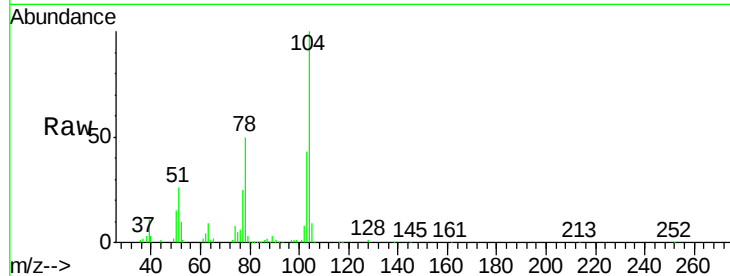
ClientSampleId :

VSTDIC001

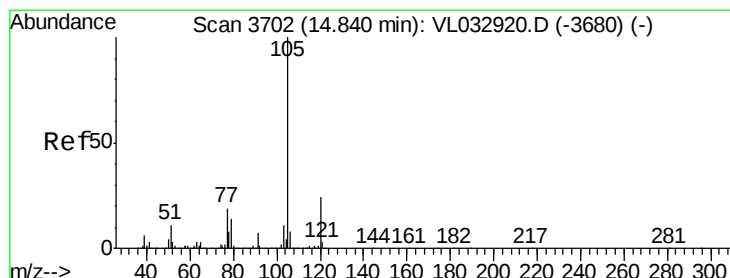
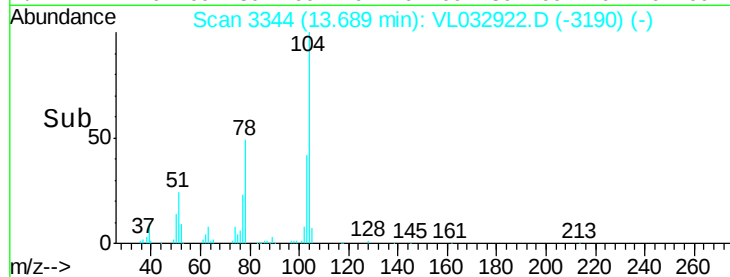
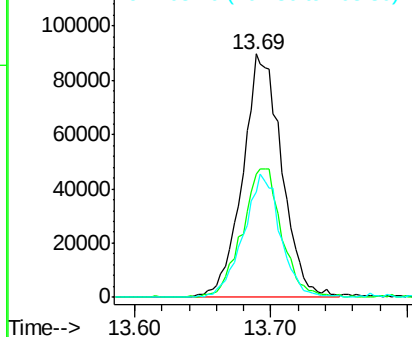
Tgt Ion:	104	Resp:	178878
Ion Ratio	Lower	Upper	
104	100		
78	54.3	42.0	63.0
103	48.0	38.3	57.5

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): V
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.980 ppbv

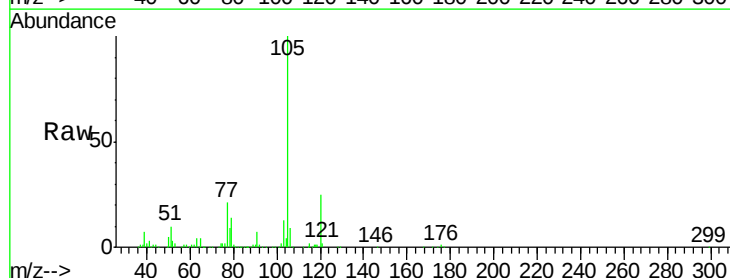
RT: 14.83 min Scan# 3699

Delta R.T. -0.01 min

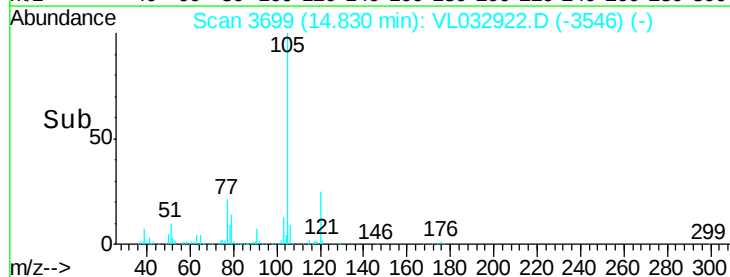
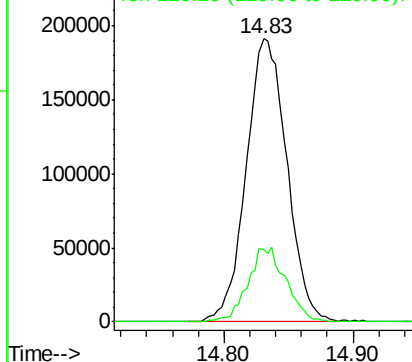
Lab File: VL032922.D

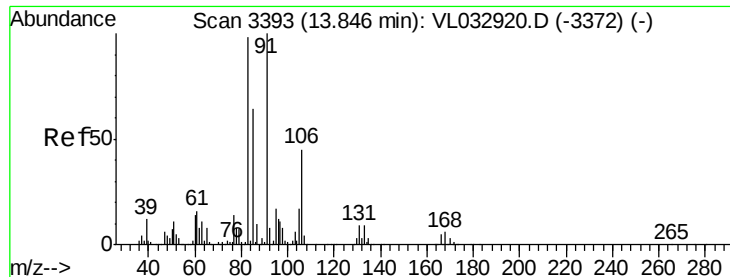
Acq: 7 Dec 2018 4:57

Tgt Ion:	105	Resp:	420332
Ion Ratio	Lower	Upper	
105	100		
120	24.6	20.3	30.5



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





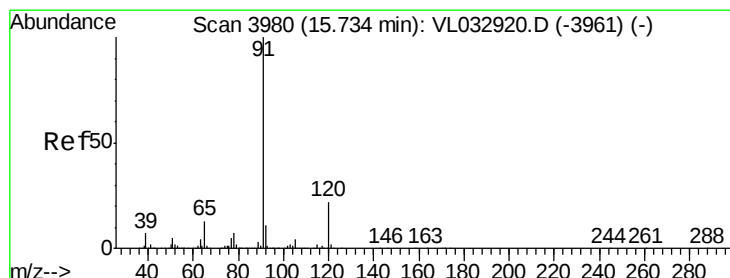
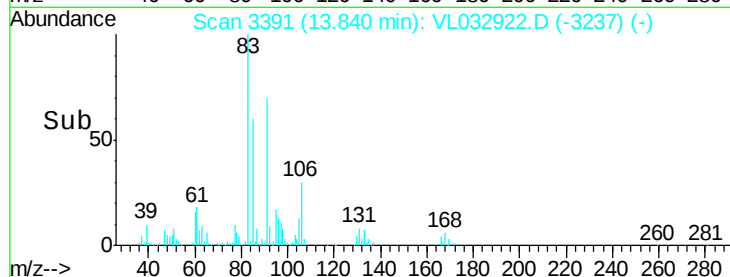
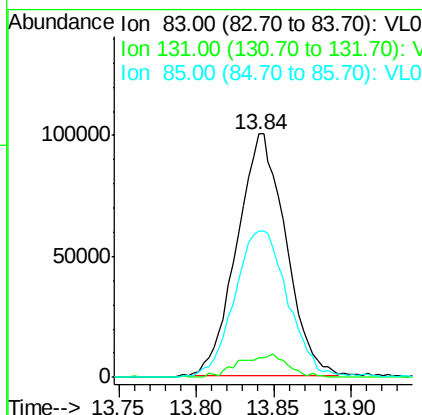
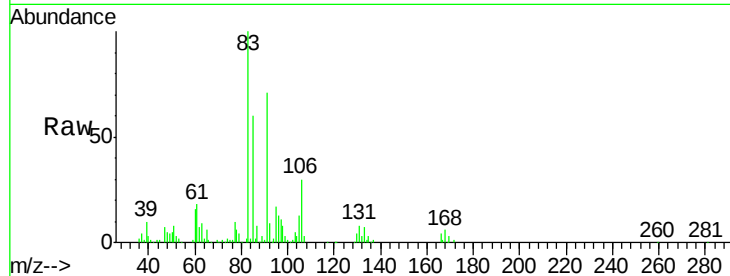
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.960 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. -0.01 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	218785		
131	9.9	4.9	14.6	
85	67.3	32.9	98.6	

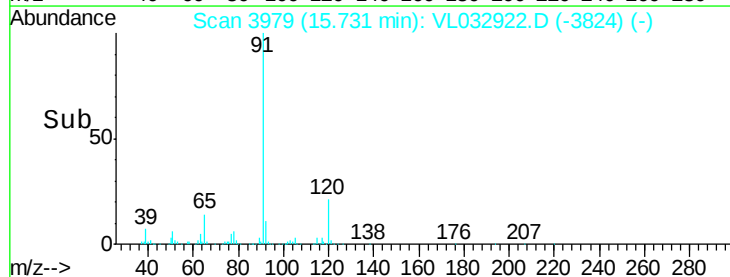
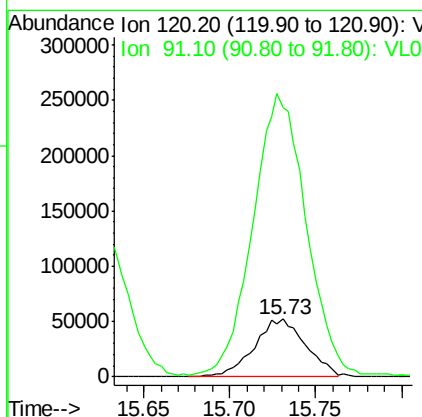
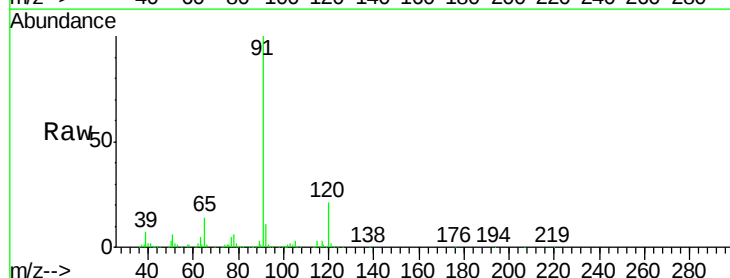
Manual Integrations
 APPROVED

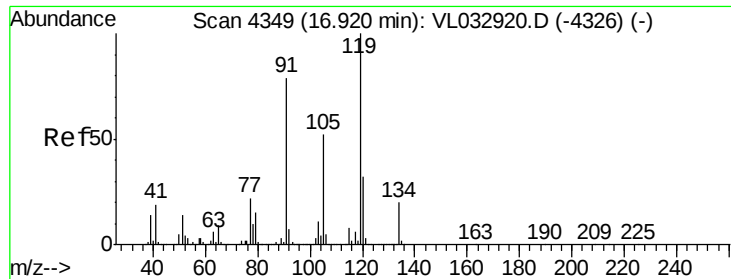
MMDadoda
 12/11/2018 10:08:11 AM



#64
 n-propylbenzene
 Concen: 1.009 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	109136		
91	507.8	380.4	570.6	





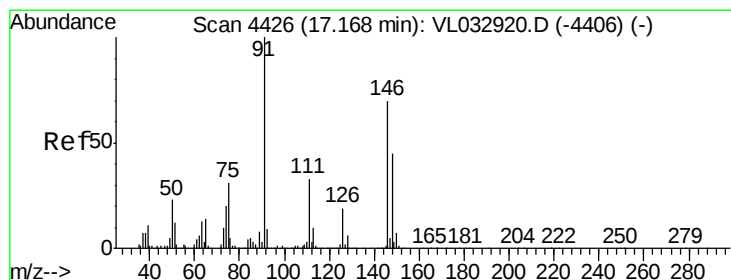
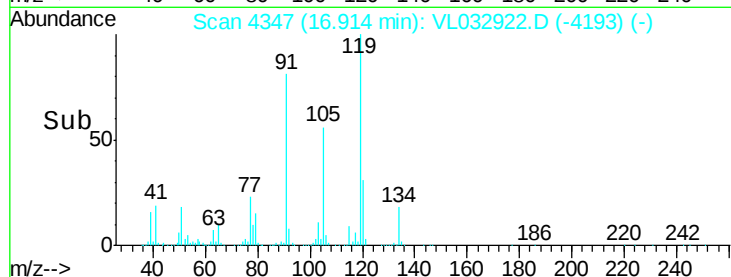
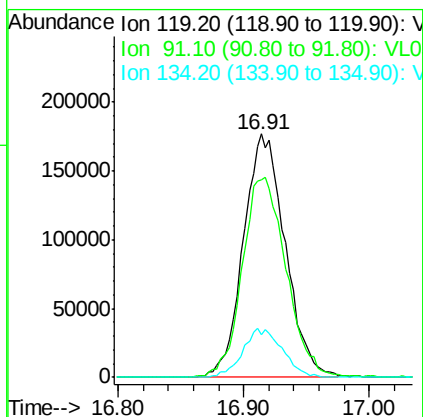
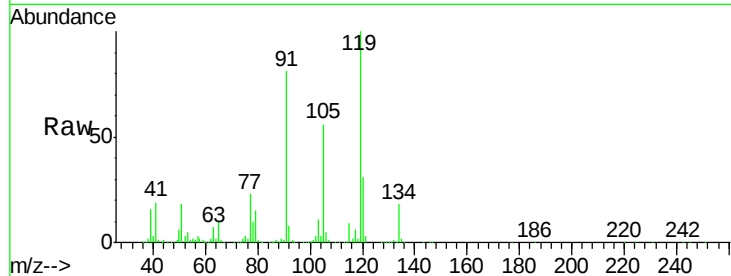
#65
tert-Butylbenzene
Concen: 1.112 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. -0.01 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	409178		
91	86.9	64.5	96.7	
134	19.2	15.7	23.5	

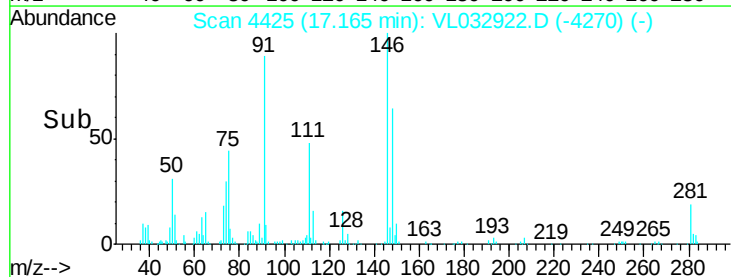
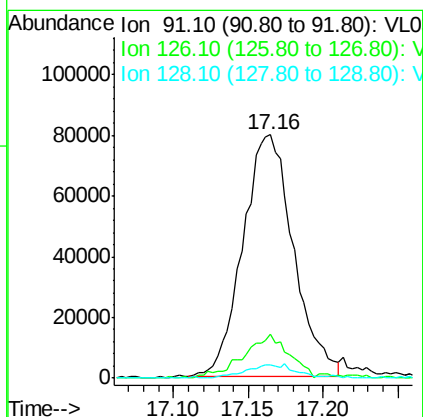
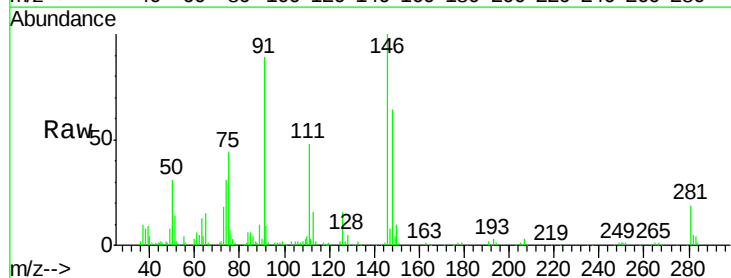
Manual Integrations
APPROVED

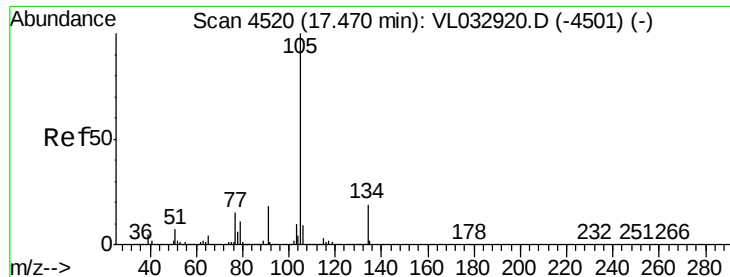
MMDadoda
12/11/2018 10:08:11 AM



#66
Benzyl Chloride
Concen: 0.966 ppbv
RT: 17.16 min Scan# 4425
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	188492		
126	17.4	14.1	21.1	
128	5.8	4.5	6.7	





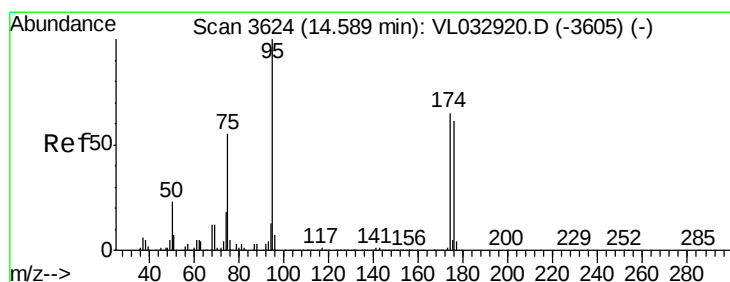
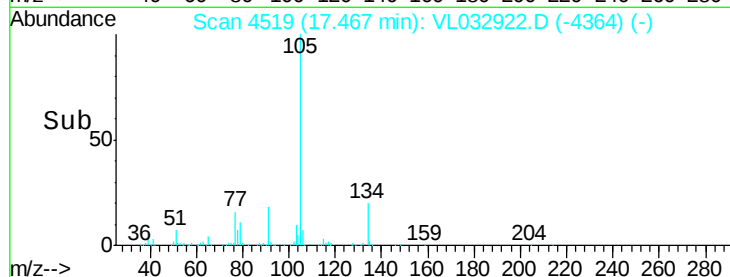
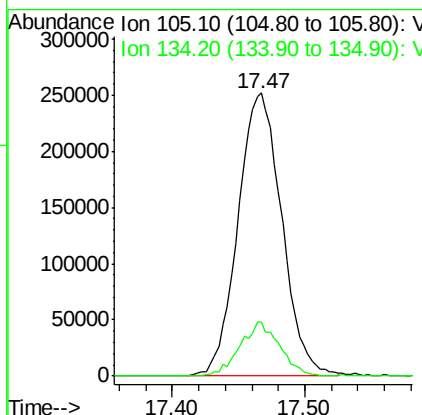
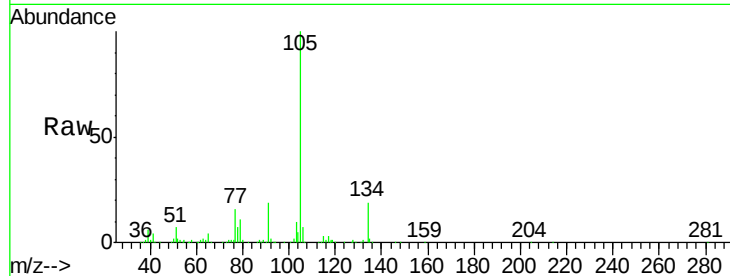
#67
 sec-Butylbenzene
 Concen: 1.105 ppbv
 RT: 17.47 min Scan# 4519
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 105 Resp: 576731
 Ion Ratio Lower Upper
 105 100
 134 17.5 14.6 21.8

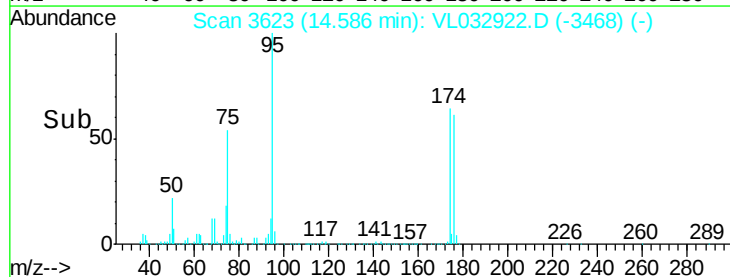
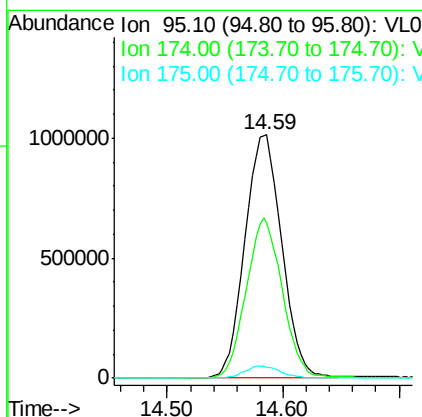
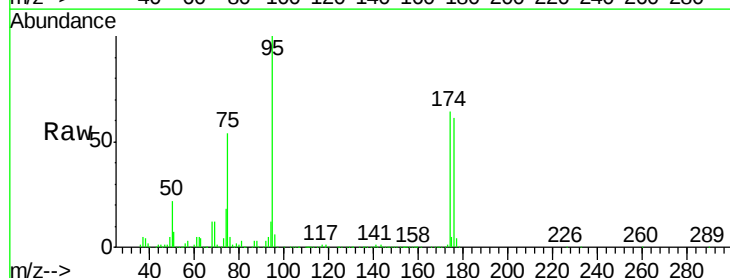
Manual Integrations
 APPROVED

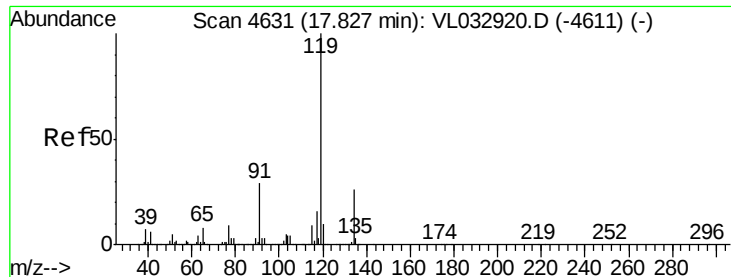
MMDadoda
 12/11/2018 10:08:11 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.259 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion: 95 Resp: 2253277
 Ion Ratio Lower Upper
 95 100
 174 64.8 51.4 77.0
 175 4.9 3.8 5.6





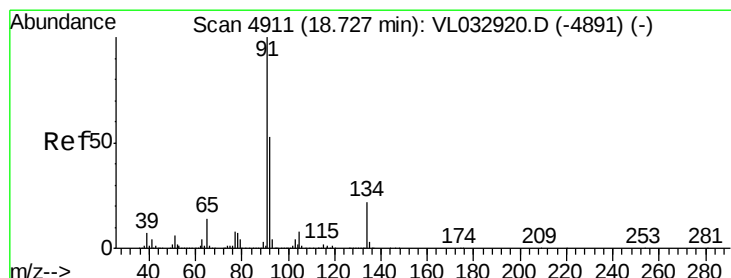
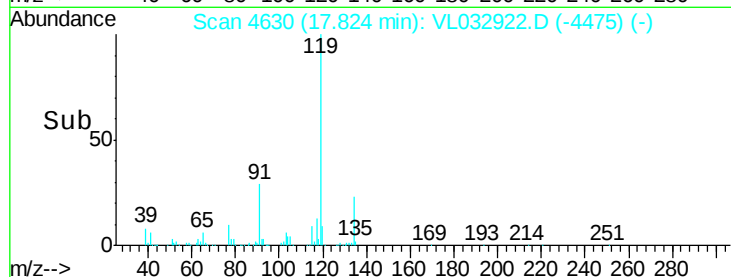
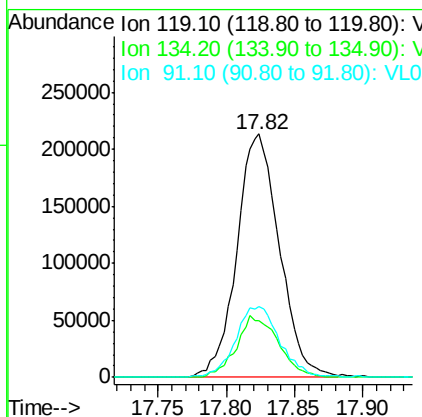
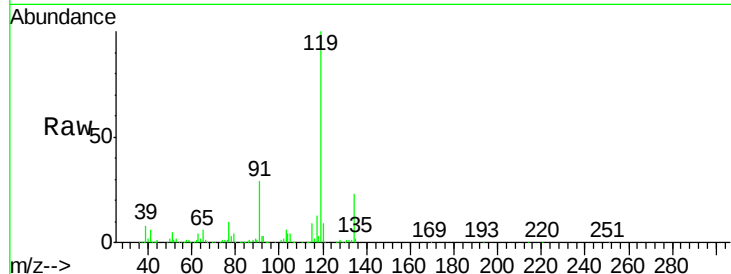
#69
p-Isopropyltoluene
Concen: 1.113 ppbv
RT: 17.82 min Scan# 4630
Delta R.T. -0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.2	30.2
91	30.7	22.9	34.3

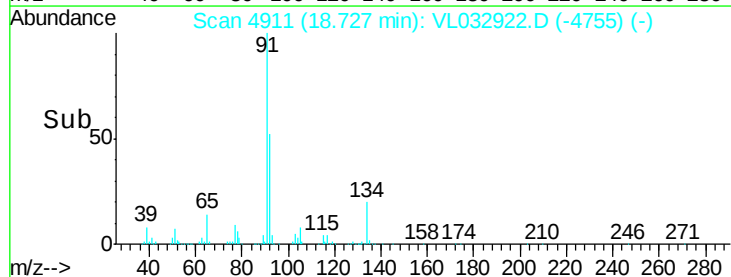
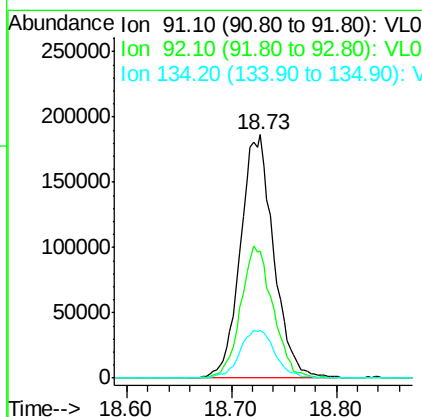
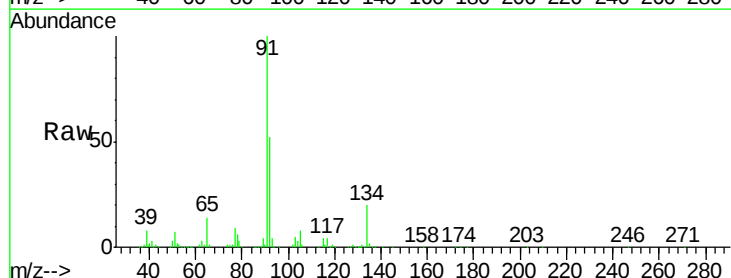
Manual Integrations
APPROVED

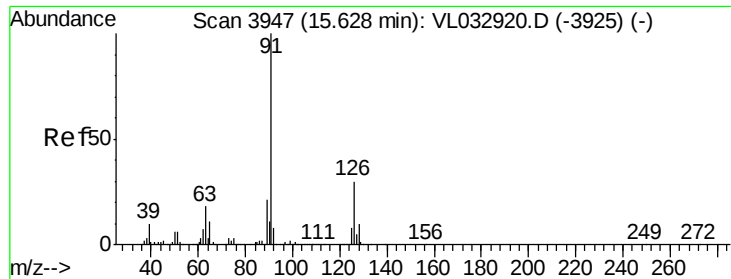
MMDadoda
12/11/2018 10:08:11 AM



#70
n-Butylbenzene
Concen: 1.005 ppbv m
RT: 18.73 min Scan# 4911
Delta R.T. 0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.7	42.7	64.1
134	20.9	18.0	27.0





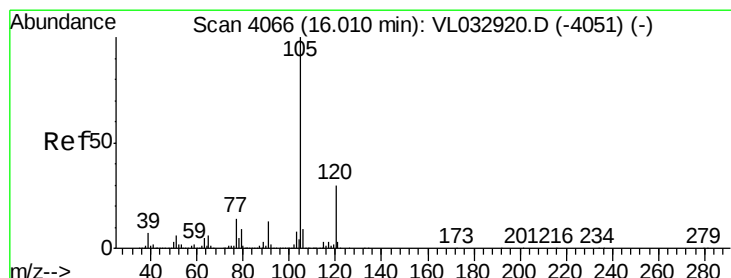
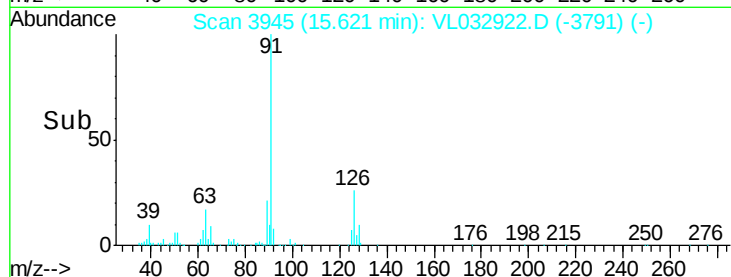
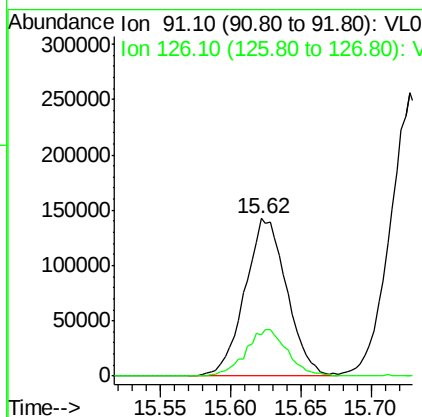
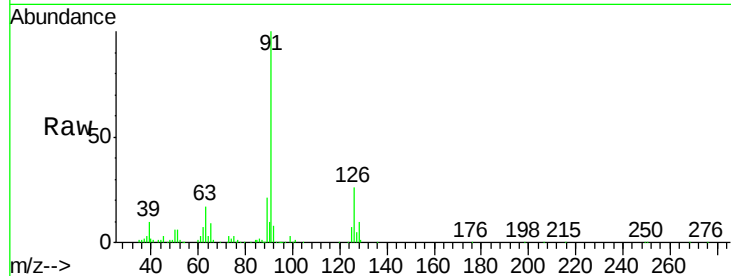
#71
 2-Chlorotoluene
 Concen: 0.959 ppbv
 RT: 15.62 min Scan# 3945
 Delta R.T. -0.01 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 91 Resp: 297275
 Ion Ratio Lower Upper
 91 100
 126 30.0 12.3 49.3

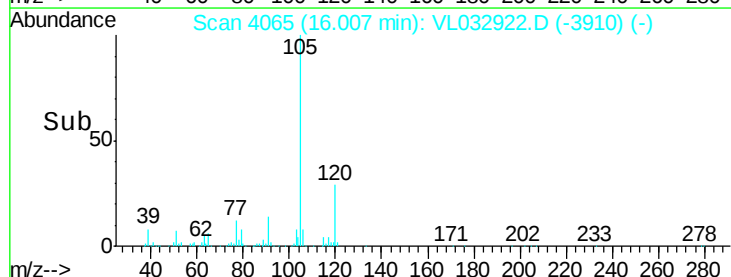
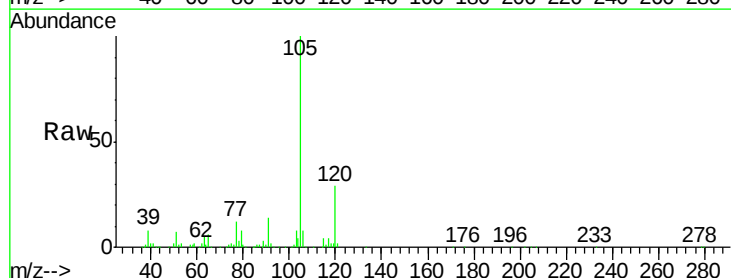
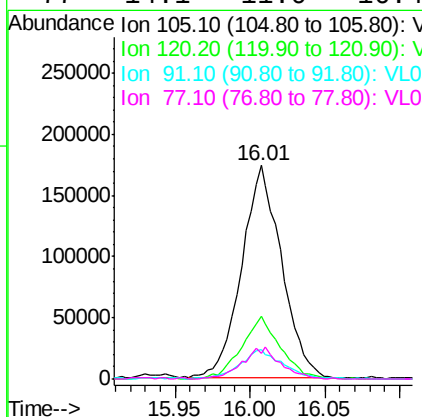
Manual Integrations
 APPROVED

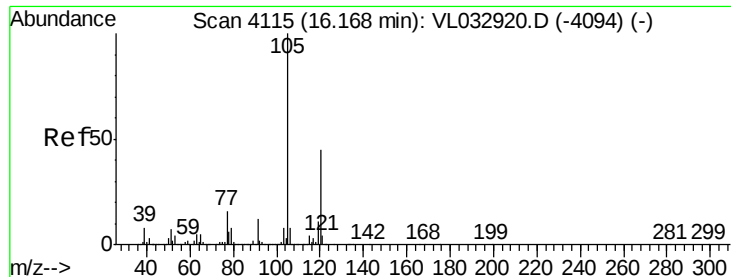
MMDadoda
 12/11/2018 10:08:11 AM



#72
 4-Ethyltoluene
 Concen: 1.010 ppbv
 RT: 16.01 min Scan# 4065
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion: 105 Resp: 322234
 Ion Ratio Lower Upper
 105 100
 120 28.4 23.0 34.4
 91 15.1 10.4 15.6
 77 14.1 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 1.014 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 311688

Ion Ratio Lower Upper

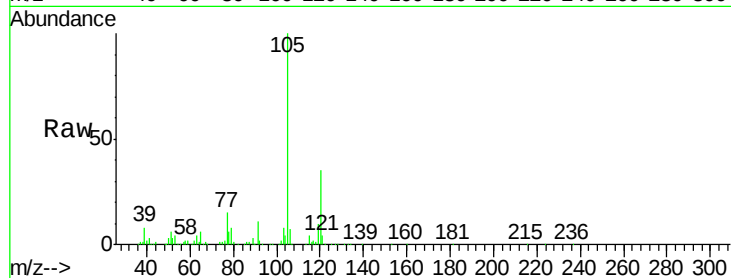
105 100

120 35.2 36.0 54.0#

Manual Integrations
APPROVED

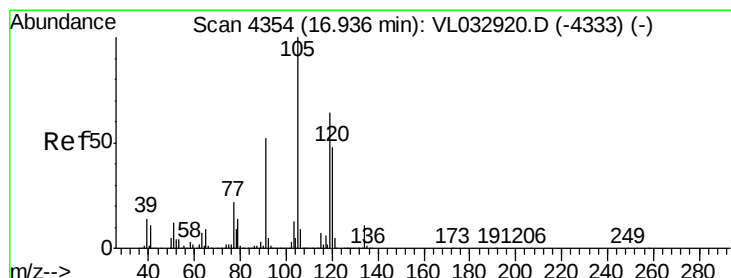
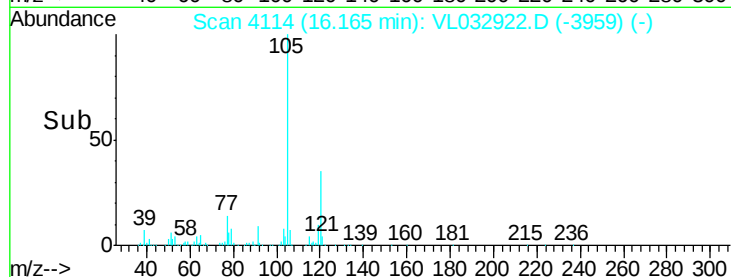
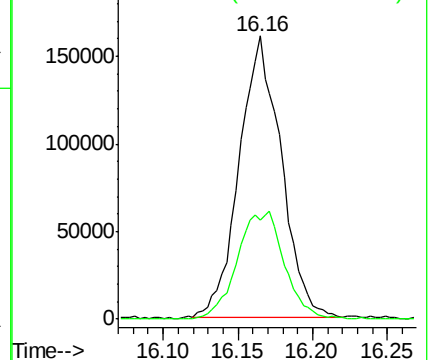
MMDadoda

12/11/2018 10:08:11 AM



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: 1.188 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion:105 Resp: 396930

Ion Ratio Lower Upper

105 100

120 48.4 38.6 58.0

91 52.8 41.7 62.5

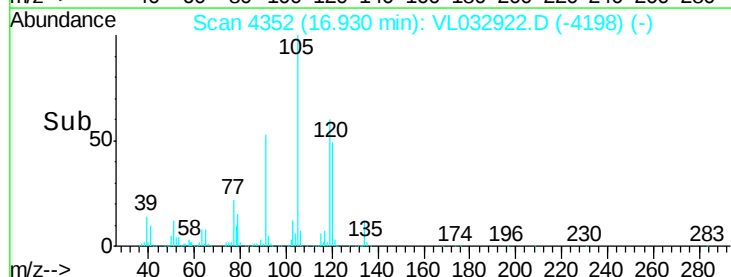
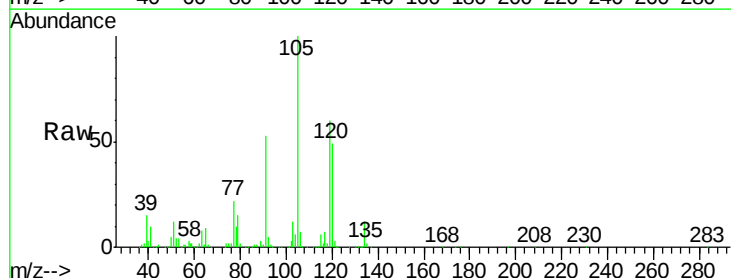
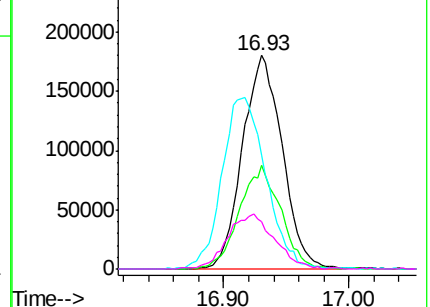
77 22.3 17.4 26.2

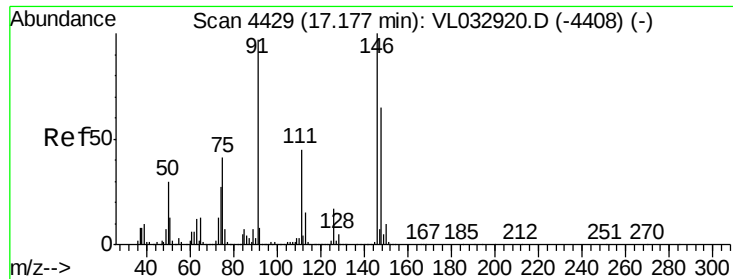
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 1.122 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Instrument :

MSVOA_L

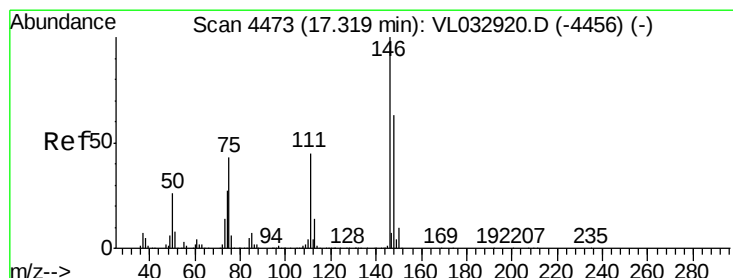
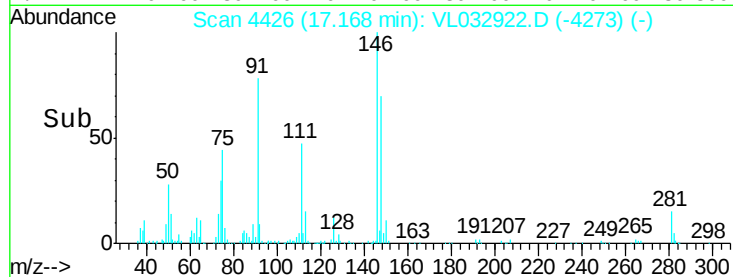
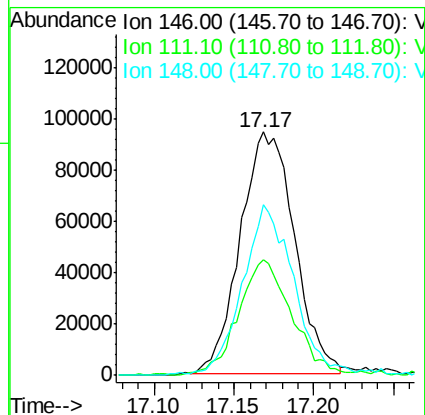
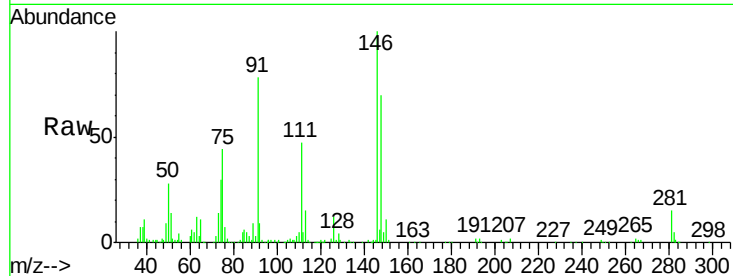
ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	219609
Ion Ratio	Lower	Upper	
146	100		
111	48.1	23.6	70.8
148	67.3	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:08:11 AM



#76

1,4-Dichlorobenzene

Concen: 1.078 ppbv

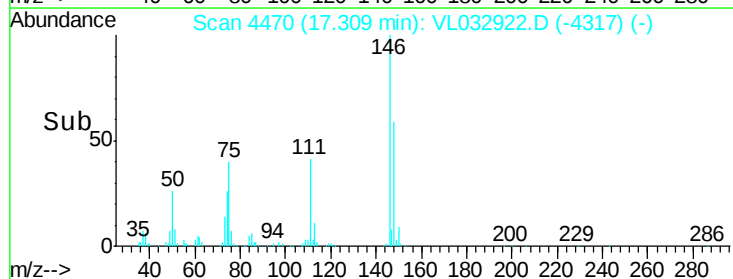
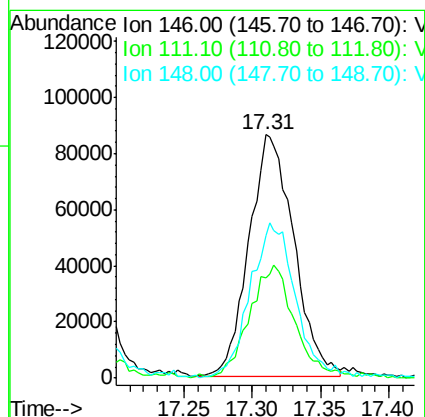
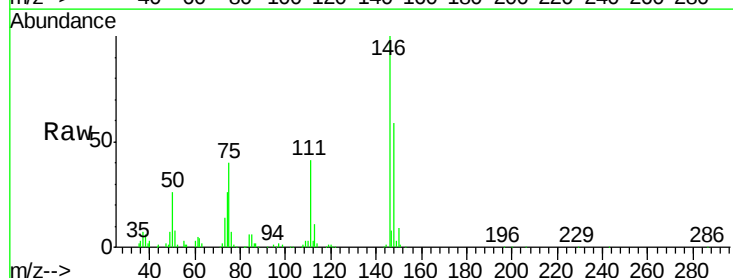
RT: 17.31 min Scan# 4470

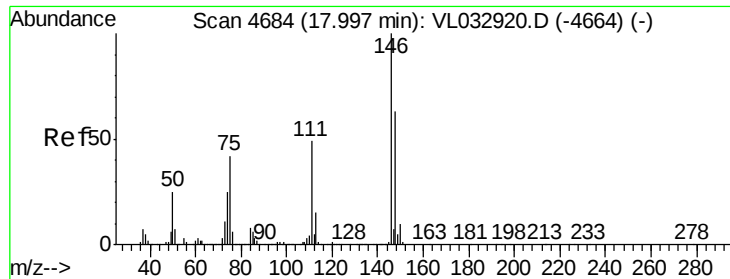
Delta R.T. -0.01 min

Lab File: VL032922.D

Acq: 7 Dec 2018 4:57

Tgt Ion:	146	Resp:	197623
Ion Ratio	Lower	Upper	
146	100		
111	48.0	22.8	68.4
148	66.2	32.0	96.2





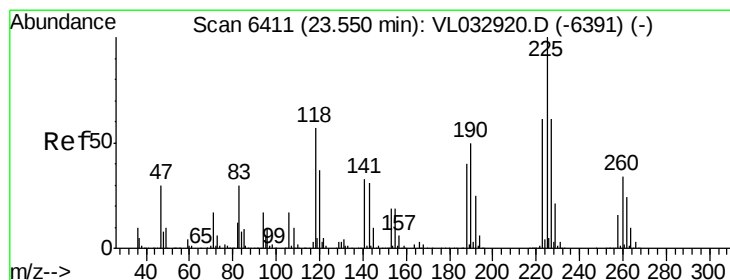
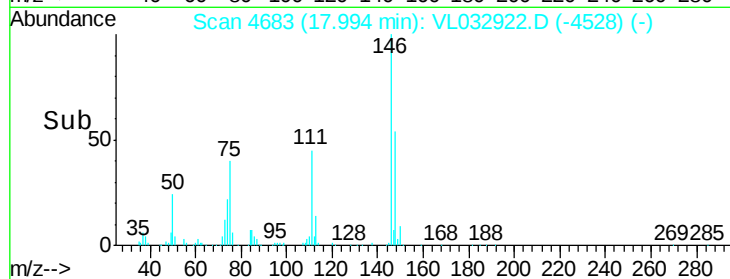
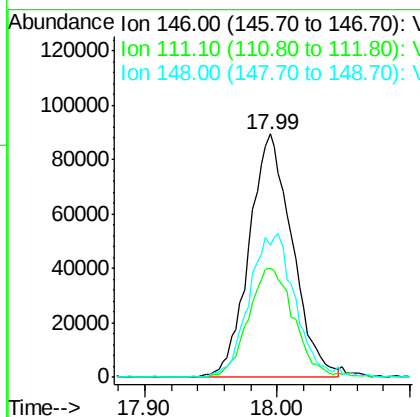
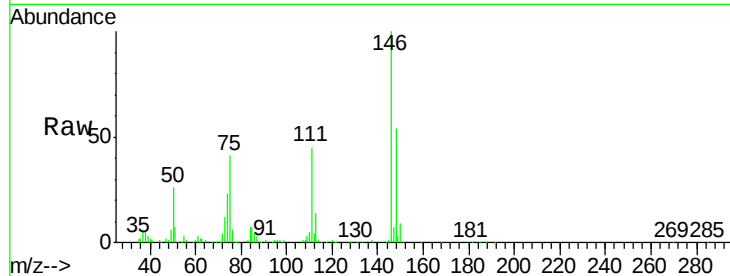
#77
 1,2-Dichlorobenzene
 Concen: 1.097 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. -0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	202374		
111	47.8	24.3	72.9	
148	63.6	32.0	96.2	

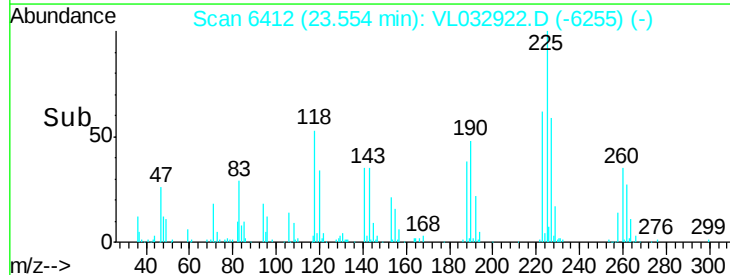
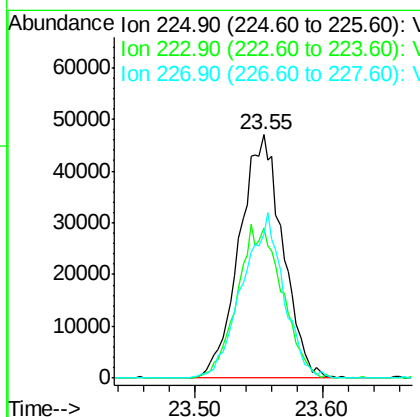
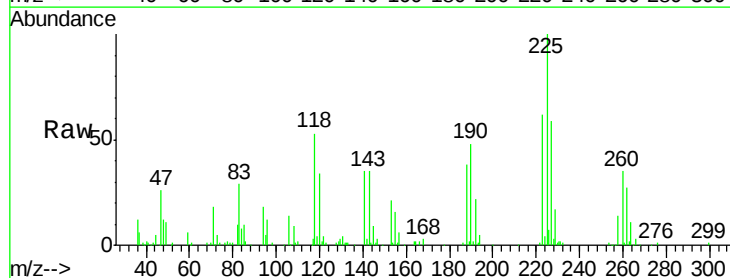
Manual Integrations
 APPROVED

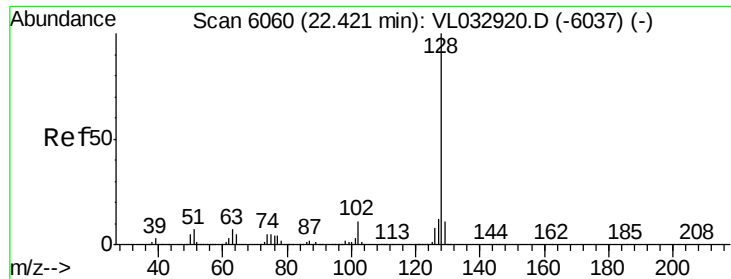
MMDadoda
 12/11/2018 10:08:11 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.948 ppbv
 RT: 23.55 min Scan# 6412
 Delta R.T. 0.00 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	110581		
223	64.8	50.6	75.8	
227	0.0	50.4	75.6#	





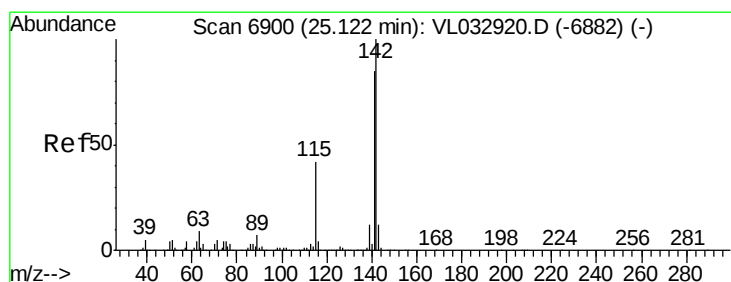
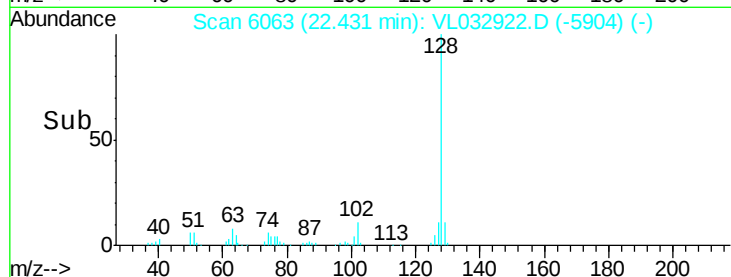
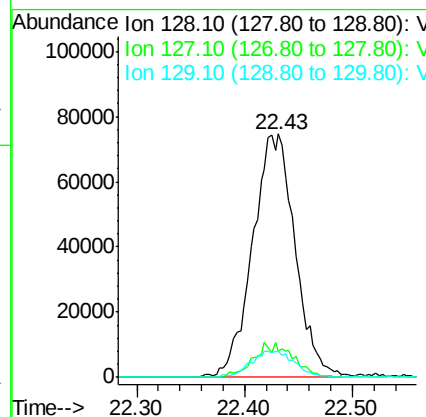
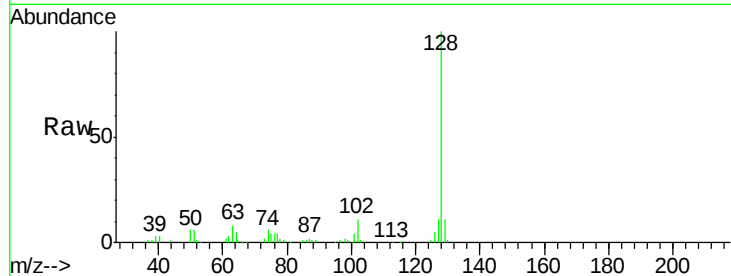
#79
Naphthalene
Concen: 1.031 ppbv m
RT: 22.43 min Scan# 6063
Delta R.T. 0.01 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	10.8	9.9	14.9
129	10.8	8.6	13.0

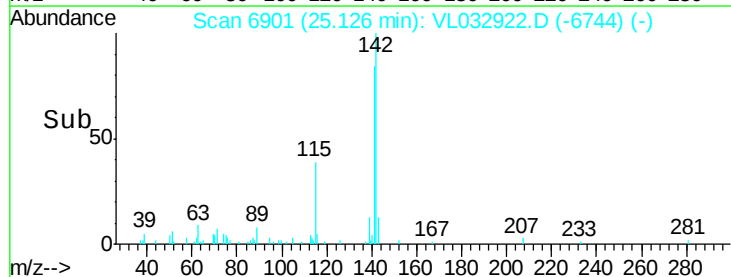
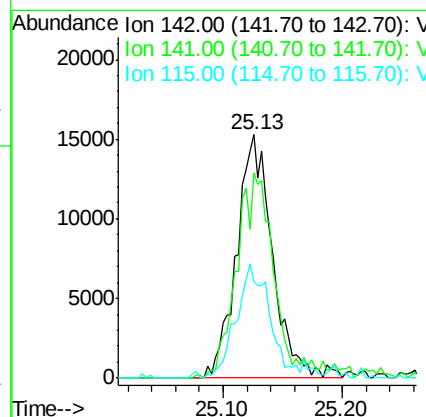
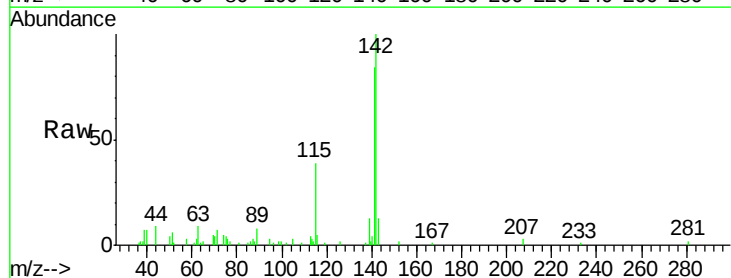
Manual Integrations
APPROVED

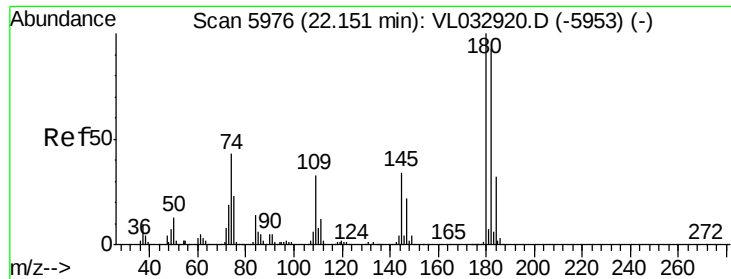
MMDadoda
12/11/2018 10:08:11 AM



#80
Naphthalene, 2-methyl-
Concen: 0.722 ppbv
RT: 25.13 min Scan# 6901
Delta R.T. 0.00 min
Lab File: VL032922.D
Acq: 7 Dec 2018 4:57

Tgt Ion	Ratio	Resp Lower	Resp Upper
142	100		
141	90.6	68.2	102.2
115	48.0	35.1	52.7





#81
 1,2,4-Trichlorobenzene
 Concen: 1.140 ppbv m
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.01 min
 Lab File: VL032922.D
 Acq: 7 Dec 2018 4:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	118821		
182	0.0	77.0	115.6#	
184	0.0	24.3	36.5#	

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:08:11 AM

