

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033302.D
 Acq On : 13 Mar 2019 18:27
 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
 3/15/2019 10:41:45 PM

Quant Time: Mar 13 23:58:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14 00:00:00 2019
 QLast Update : Wed Mar 13 17:31:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	778677	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1754371	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1954820	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1547546	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	93191	0.593	ppbv	97
3) Chlorodifluoromethane	3.02	51	55121	0.534	ppbv	99
4) Chloromethane	3.17	50	29711	0.538	ppbv #	88
5) Vinyl Chloride	3.29	62	26331	0.488	ppbv #	88
6) Bromomethane	3.52	94	18130	0.550	ppbv	88
7) Chloroethane	3.60	64	10600	0.544	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	72229	0.543	ppbv	100
9) Propene	3.04	41	23941	0.508	ppbv	100
10) Heptane	8.24	43	52726	0.497	ppbv	98
11) Trichlorofluoromethane	4.01	101	76590	0.492	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.55	101	52301	0.587	ppbv	98
13) Ethanol	3.66	45	7216	0.502	ppbv #	62
14) Bromoethene	3.79	108	20043	0.482	ppbv	95
15) Acetone	3.91	43	61638	0.516	ppbv	98
16) 1,3-Butadiene	3.36	39	24996	0.580	ppbv	98
17) tert-Butyl alcohol	4.38	59	9602m	0.599	ppbv	
18) 1,1-Dichloroethene	4.35	96	22812m	0.578	ppbv	
19) Isopropyl Alcohol	4.04	45	37741	0.523	ppbv #	95
20) Methylene Chloride	4.41	84	24357	0.613	ppbv	96
21) Allyl Chloride	4.48	41	33310	0.561	ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	22040	0.524	ppbv	90
23) Vinyl Acetate	5.15	43	73825	0.493	ppbv #	94
24) 1,1-Dichloroethane	5.09	63	57819	0.533	ppbv	99
25) Ethyl Acetate	5.77	43	101639	0.552	ppbv	99
26) Hexane	5.78	57	47736	0.553	ppbv	94
27) Carbon Disulfide	4.62	76	43758	0.477	ppbv #	89
28) Methyl tert-Butyl Ether	5.12	73	63552	0.518	ppbv	97
29) Chloroform	5.84	83	74320	0.565	ppbv	95
30) Cyclohexane	7.24	84	35156m	0.525	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	42609	0.514	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	66649	0.520	ppbv	96
34) 2-Butanone	5.34	43	61316	0.529	ppbv	98
35) Carbon Tetrachloride	7.13	117	65152	0.508	ppbv	99
36) Benzene	7.00	78	90044m	0.557	ppbv	
37) 1,2-Dichloroethane	6.41	62	55214	0.569	ppbv	99
38) Trichloroethene	7.96	130	32985	0.523	ppbv	95
39) 1,2-Dichloropropane	7.73	63	34736	0.571	ppbv	94
40) 1,4-Dioxane	8.00	88	11868m	0.518	ppbv	
41) Tetrahydrofuran	6.17	42	34453m	0.535	ppbv	
42) Bromodichloromethane	7.91	83	68963	0.516	ppbv	96
43) Methyl Methacrylate	8.14	69	32529m	0.516	ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033302.D
 Acq On : 13 Mar 2019 18:27
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

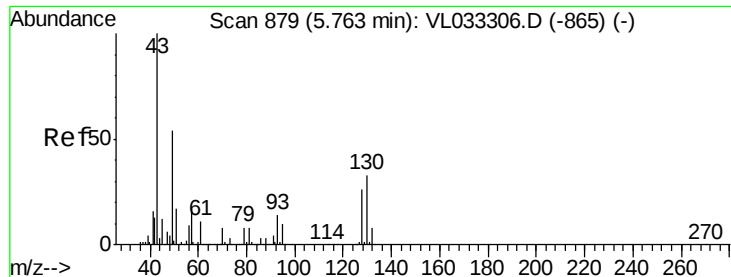
Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:45 PM

Quant Time: Mar 13 23:58:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 2019
 QLast Update : Wed Mar 13 17:31:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	149287	0.543	ppbv	96
45) t-1,3-Dichloropropene	9.41	75	31354	0.404	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	41795	0.460	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	35429	0.545	ppbv	98
48) Dibromochloromethane	10.44	129	52310	0.491	ppbv	99
49) Bromoform	13.20	173	41084m	0.475	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	85149	0.514	ppbv	98
51) 2-Hexanone	10.30	43	62851m	0.497	ppbv	
52) Tetrachloroethene	11.37	164	35036m	0.591	ppbv	
53) Toluene	9.94	91	92288	0.495	ppbv	99
54) 1,2-Dibromoethane	10.76	107	58185	0.582	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	45647m	0.549	ppbv	
57) Chlorobenzene	12.30	112	88110	0.598	ppbv	99
58) Ethyl Benzene	12.86	91	139206	0.518	ppbv	99
59) m/p-Xylene	13.13	91	238860m	1.063	ppbv	
60) o-Xylene	13.84	91	117357	0.543	ppbv	97
61) Styrene	13.68	104	72529	0.472	ppbv	98
62) Isopropylbenzene	14.83	105	166183	0.552	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	82944	0.573	ppbv	100
64) n-propylbenzene	15.72	120	38762m	0.523	ppbv	
65) tert-Butylbenzene	16.90	119	129666	0.510	ppbv	96
66) Benzyl Chloride	17.15	91	38077m	0.387	ppbv	
67) sec-Butylbenzene	17.45	105	194411m	0.538	ppbv	
69) p-Isopropyltoluene	17.81	119	147048	0.503	ppbv	98
70) n-Butylbenzene	18.71	91	150935	0.481	ppbv	98
71) 2-Chlorotoluene	15.61	91	120226	0.530	ppbv	97
72) 4-Ethyltoluene	16.00	105	112392	0.482	ppbv	97
73) 1,3,5-Trimethylbenzene	16.16	105	107219	0.488	ppbv	93
74) 1,2,4-Trimethylbenzene	16.92	105	110402	0.493	ppbv #	91
75) 1,3-Dichlorobenzene	17.16	146	75776m	0.565	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	72549m	0.547	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	73143m	0.548	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	59897m	0.538	ppbv	
79) Naphthalene	22.41	128	63950m	0.264	ppbv	
80) Naphthalene,2-methyl-	25.14	142	2210m	0.033	ppbv	
81) 1,2,4-Trichlorobenzene	22.14	180	45837m	0.359	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

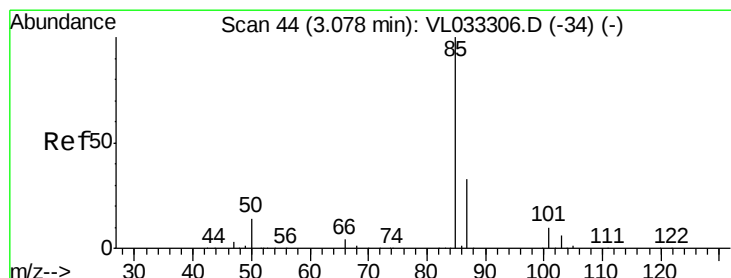
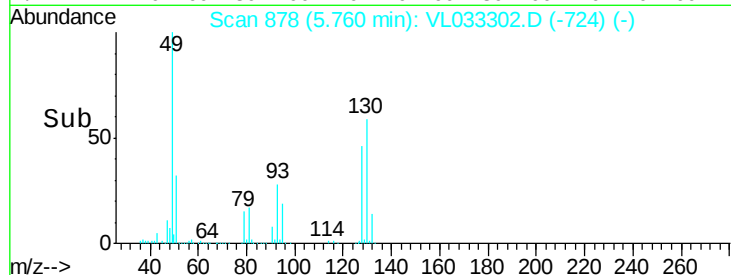
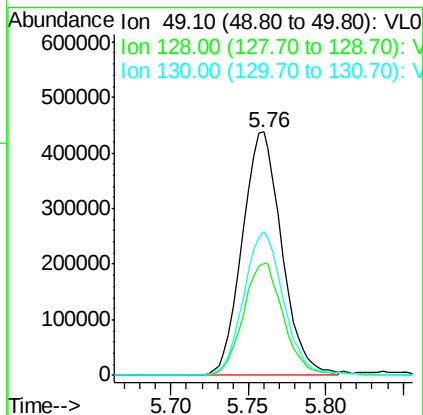
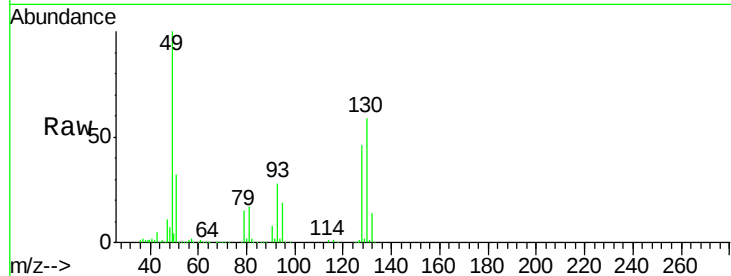
ClientSampleId :

VSTDIC0.5

Tgt Ion:	49	Resp:	778677
Ion Ratio	Lower	Upper	
49	100		
128	46.9	23.4	70.3
130	59.7	29.9	89.7

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#2

Dichlorodifluoromethane

Concen: 0.593 ppbv

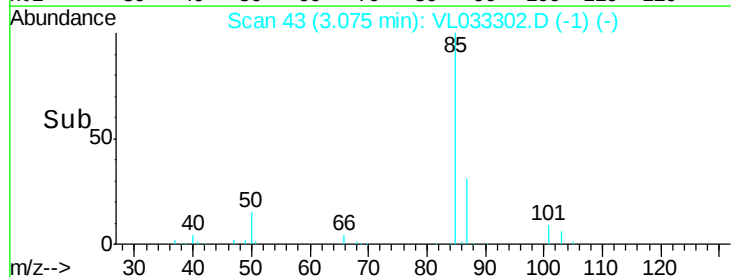
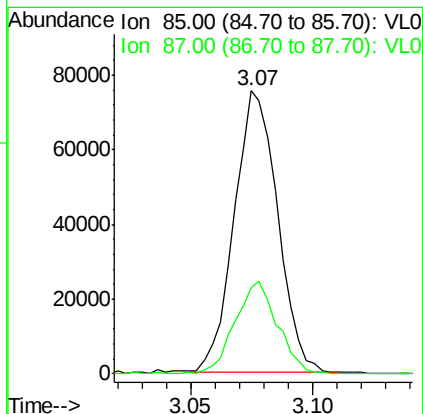
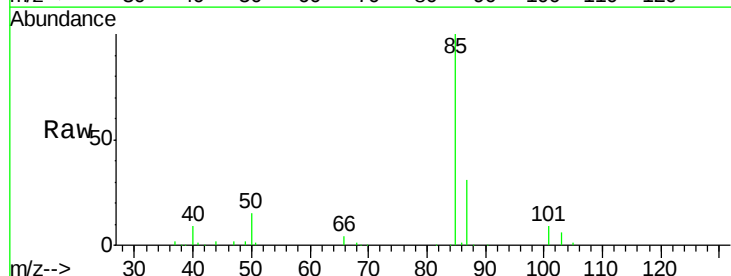
RT: 3.07 min Scan# 43

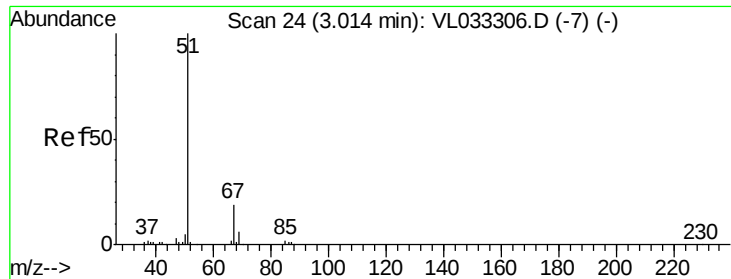
Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:	85	Resp:	93191
Ion Ratio	Lower	Upper	
85	100		
87	30.6	25.8	38.8





#3

Chlorodifluoromethane

Concen: 0.534 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 51 Resp: 55121

Ion Ratio Lower Upper

51 100

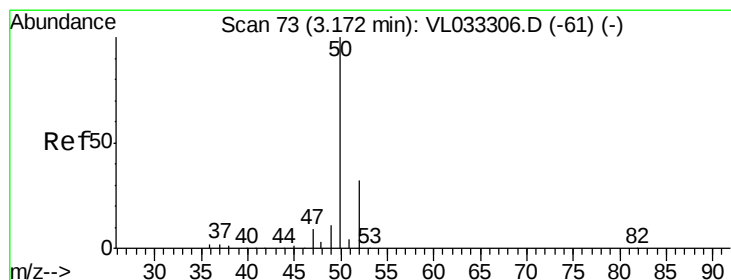
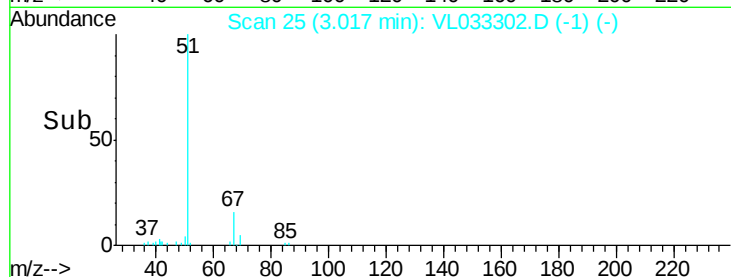
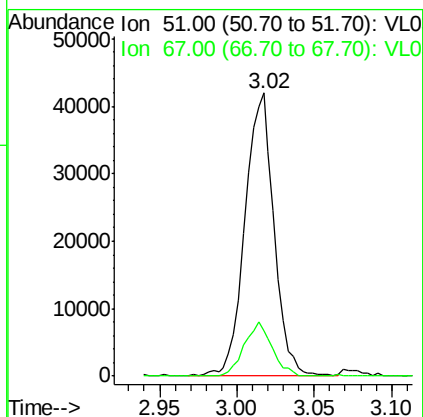
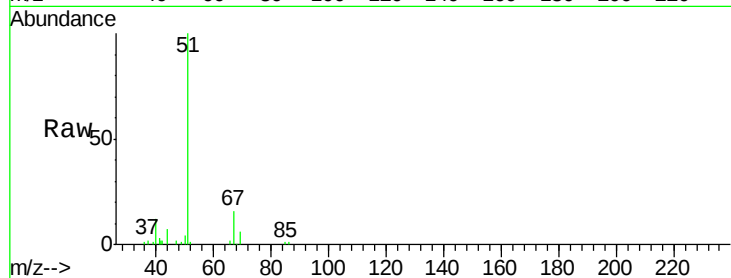
67 18.1 14.9 22.3

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:45 PM



#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033302.D

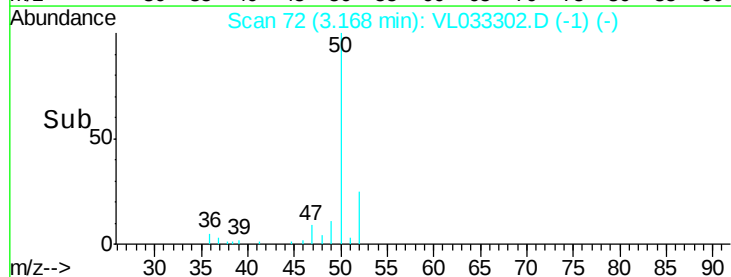
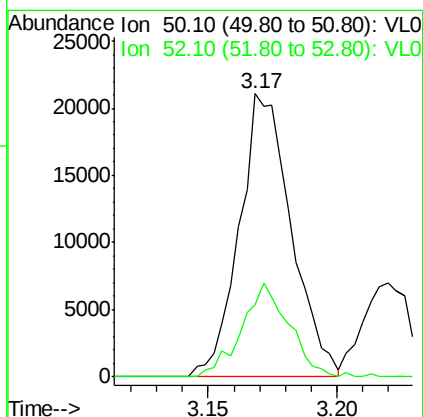
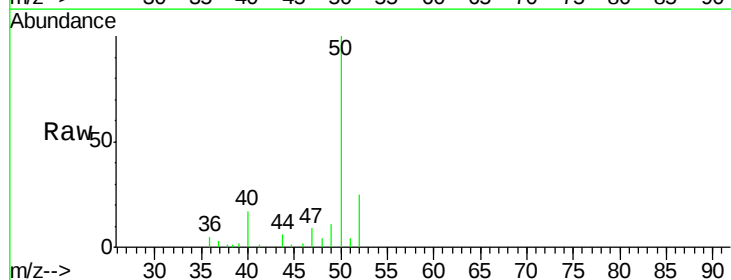
Acq: 13 Mar 2019 18:27

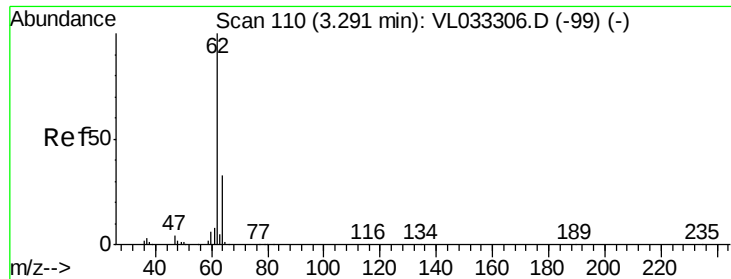
Tgt Ion: 50 Resp: 29711

Ion Ratio Lower Upper

50 100

52 25.5 25.7 38.5#





#5

Vinyl Chloride

Concen: 0.488 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

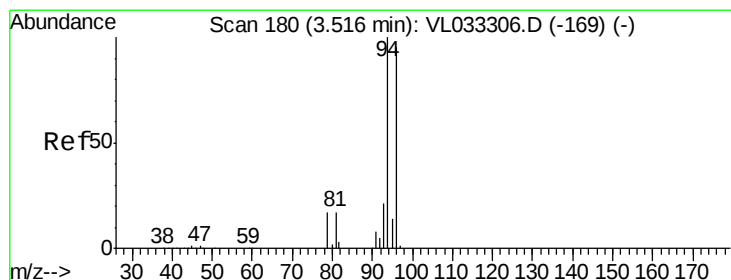
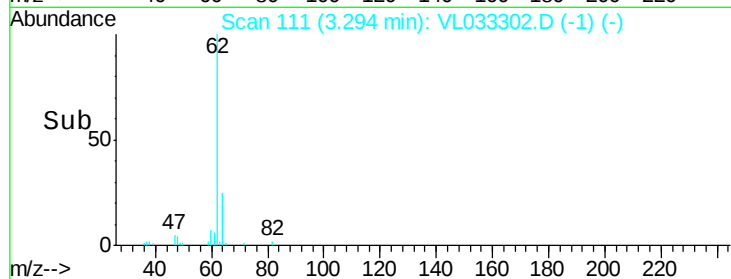
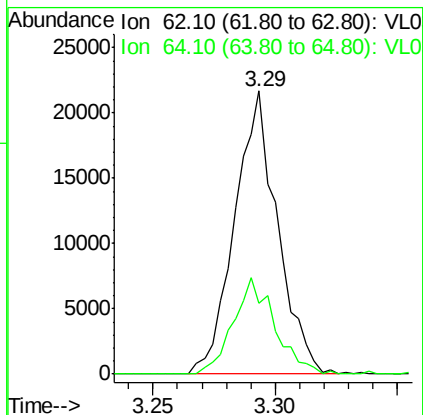
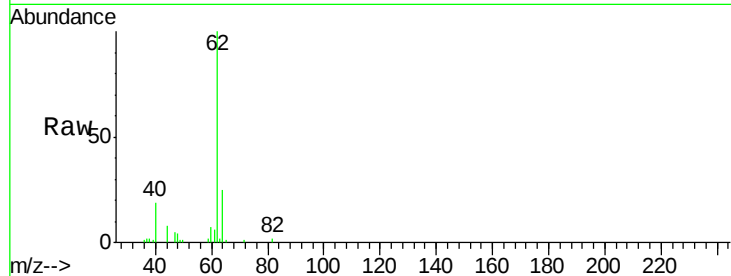
ClientSampleId :

VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
62	100		
64	25.0	25.5	38.3#

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#6

Bromomethane

Concen: 0.550 ppbv

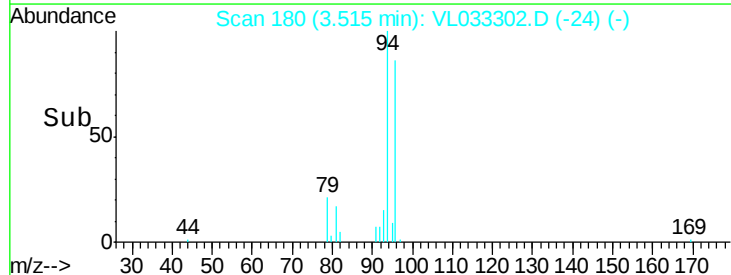
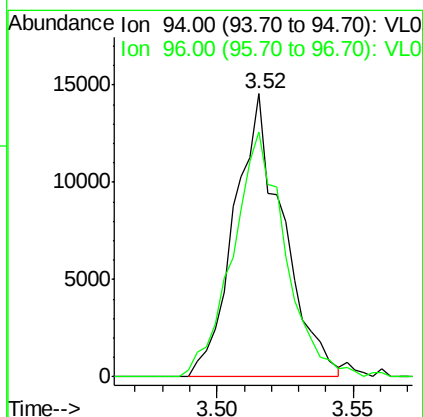
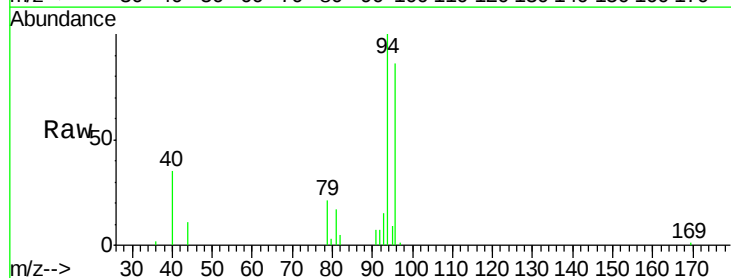
RT: 3.52 min Scan# 180

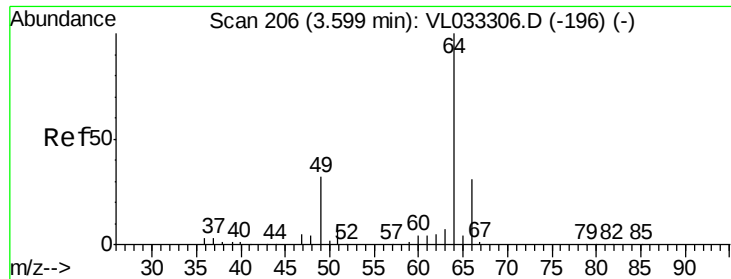
Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
94	100		
96	83.9	76.2	114.4





#7

Chloroethane

Concen: 0.544 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 64 Resp: 10600

Ion Ratio Lower Upper

64 100

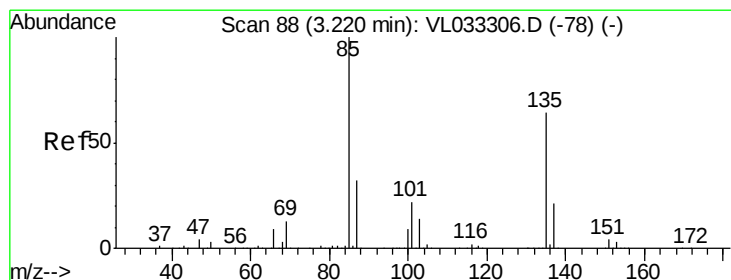
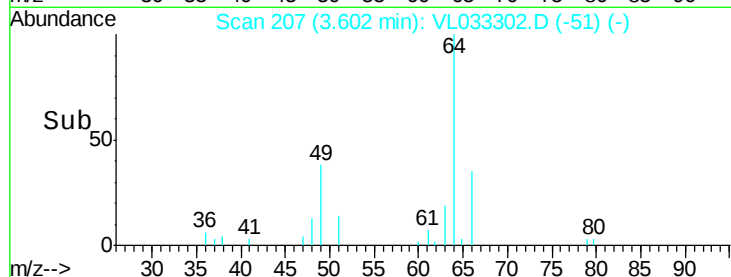
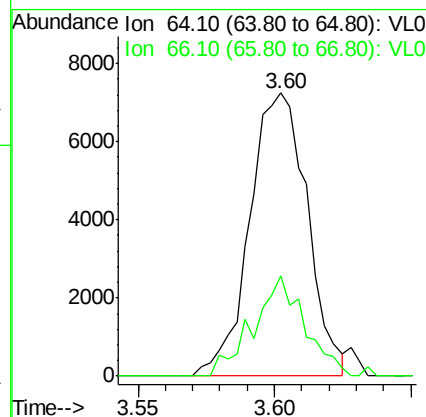
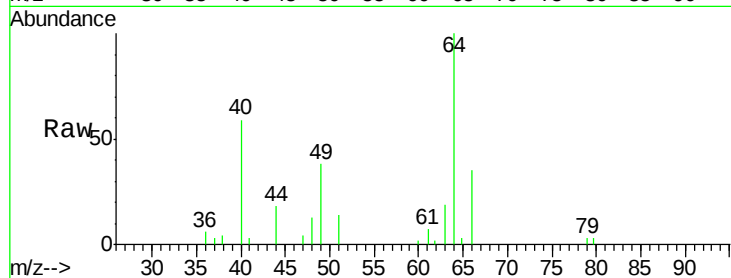
66 35.5 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:45 PM



#8

Dichlorotetrafluoroethane

Concen: 0.543 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033302.D

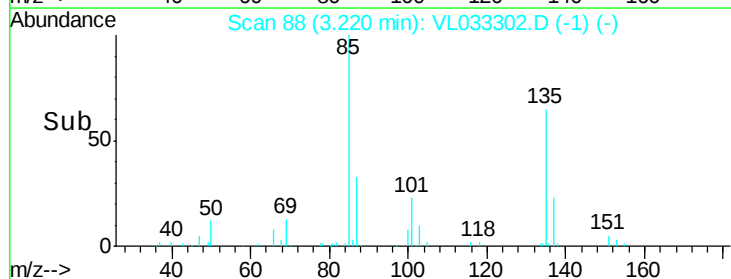
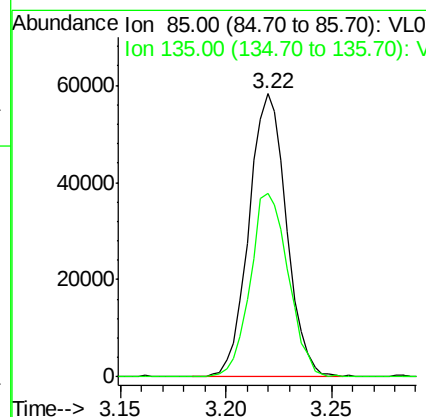
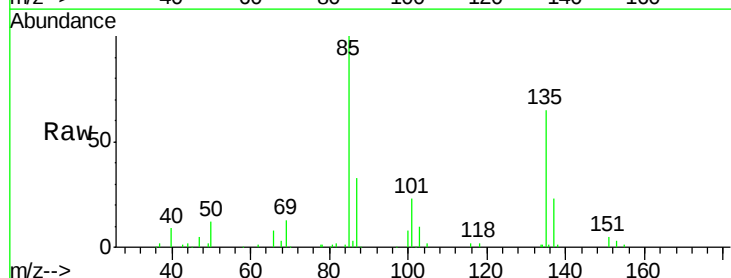
Acq: 13 Mar 2019 18:27

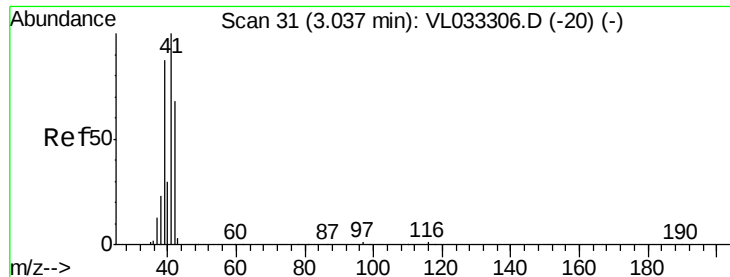
Tgt Ion: 85 Resp: 72229

Ion Ratio Lower Upper

85 100

135 65.8 52.9 79.3





#9

Propene

Concen: 0.508 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 41 Resp: 23941

Ion Ratio Lower Upper

41 100

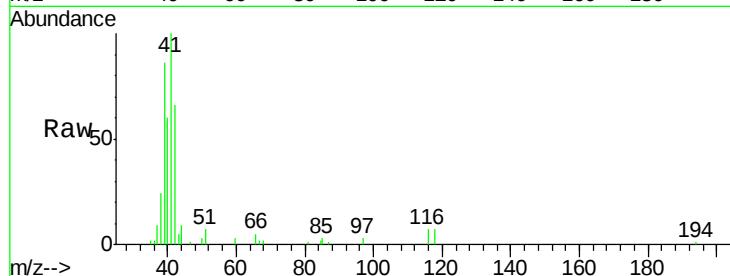
42 68.4 54.4 81.6

Manual Integrations

APPROVED

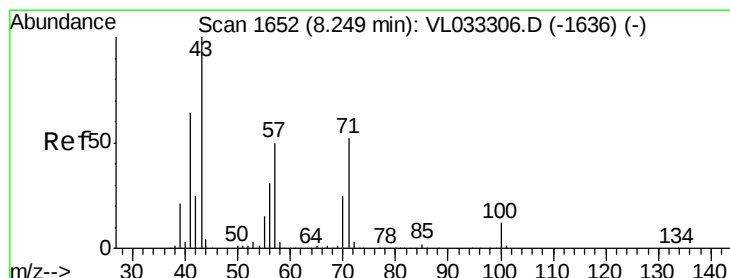
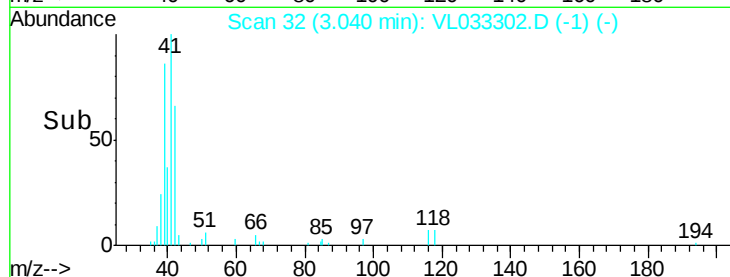
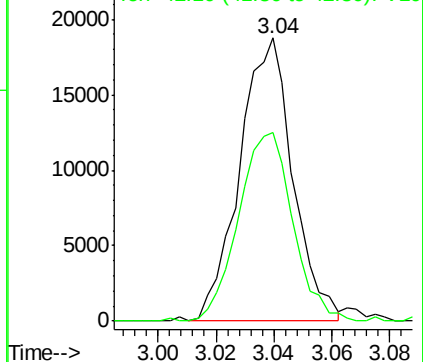
MMDadoda

3/15/2019 10:41:45 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.497 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033302.D

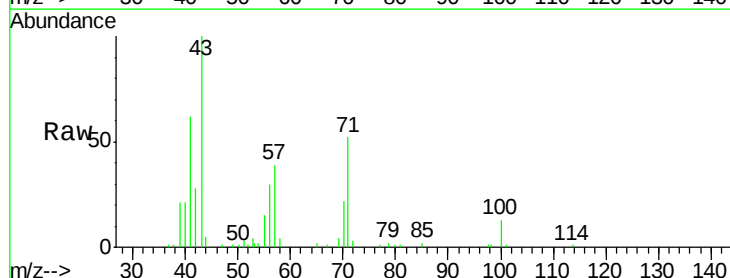
Acq: 13 Mar 2019 18:27

Tgt Ion: 43 Resp: 52726

Ion Ratio Lower Upper

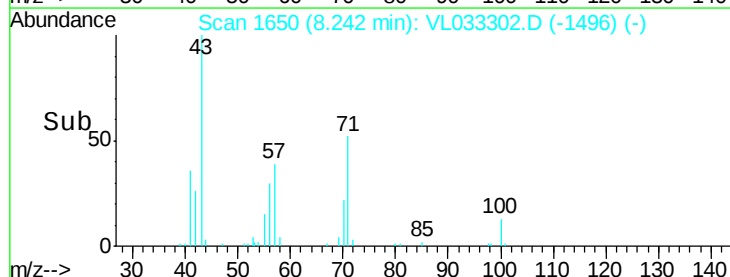
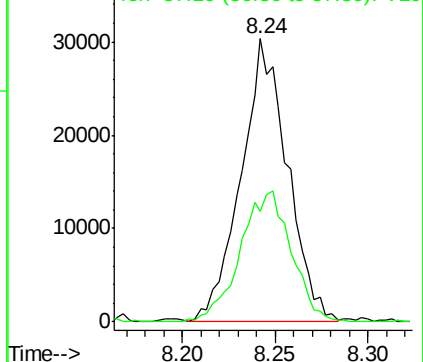
43 100

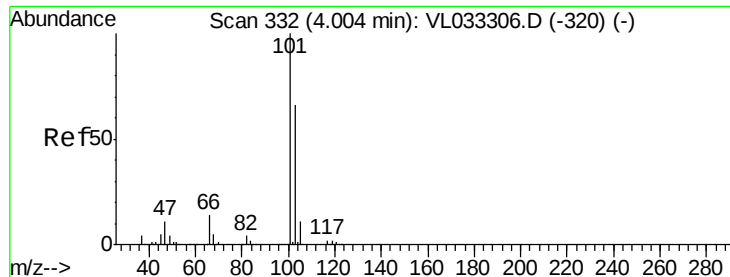
57 50.7 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





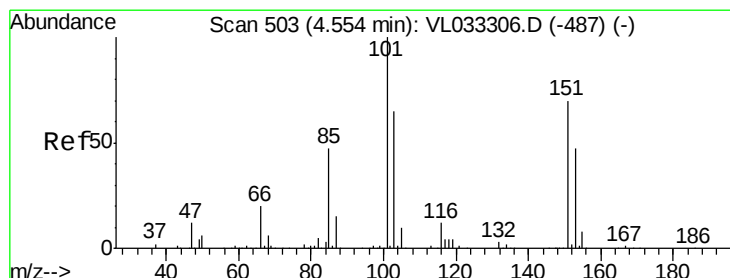
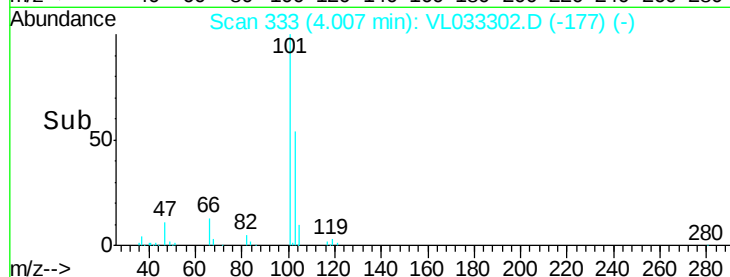
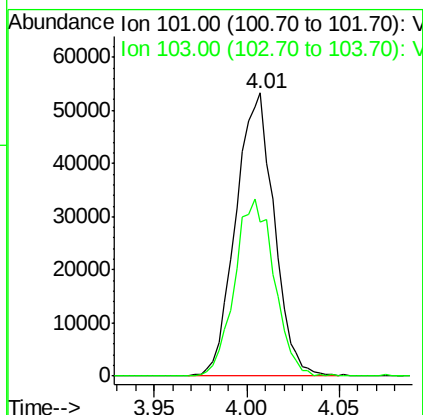
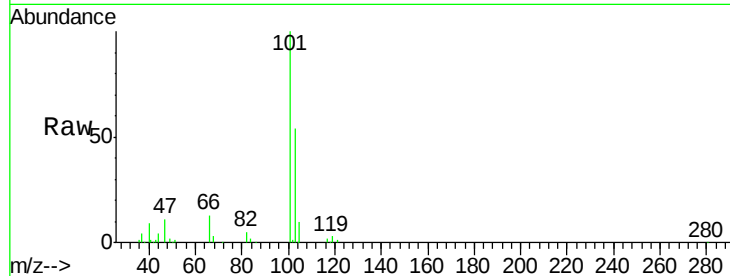
#11
 Trichlorofluoromethane
 Concen: 0.492 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:101 Resp: 76590
 Ion Ratio Lower Upper
 101 100
 103 54.4 52.5 78.7

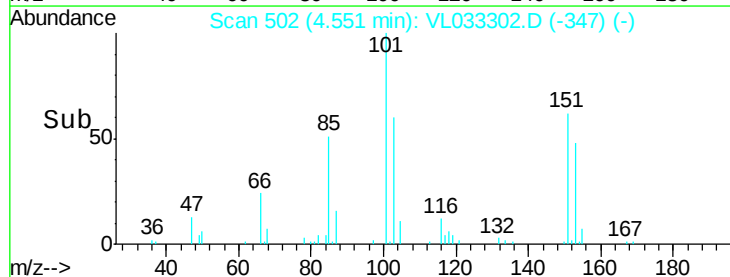
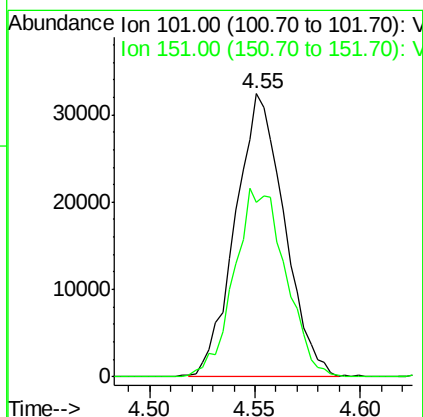
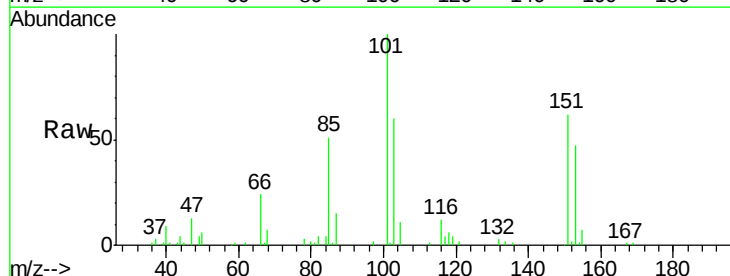
Manual Integrations
 APPROVED

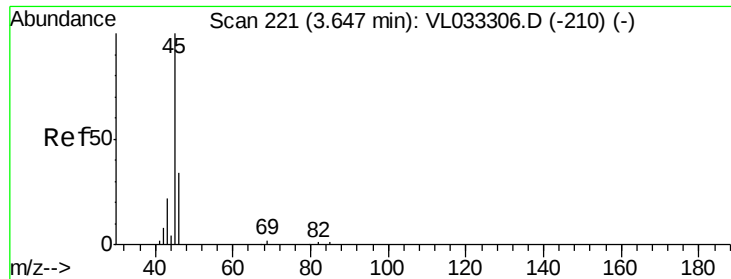
MMDadoda
 3/15/2019 10:41:45 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.587 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion:101 Resp: 52301
 Ion Ratio Lower Upper
 101 100
 151 69.7 57.2 85.8





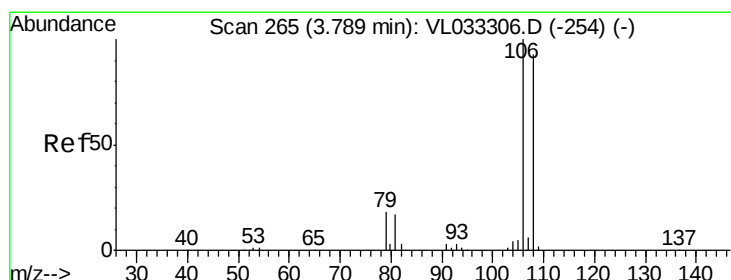
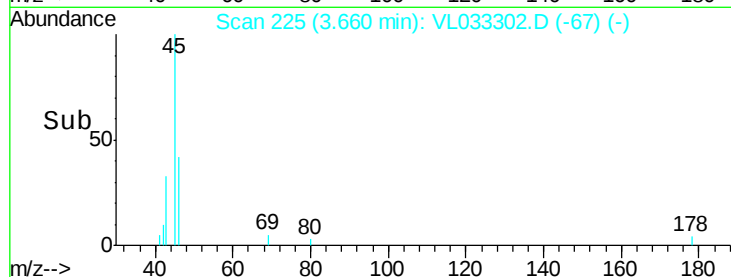
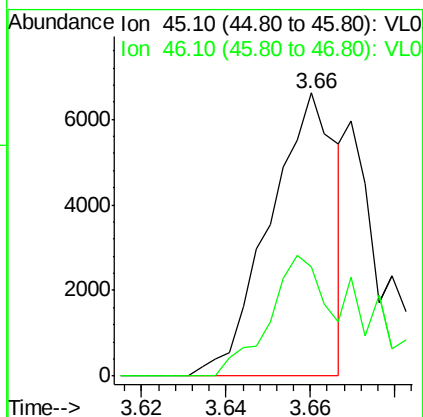
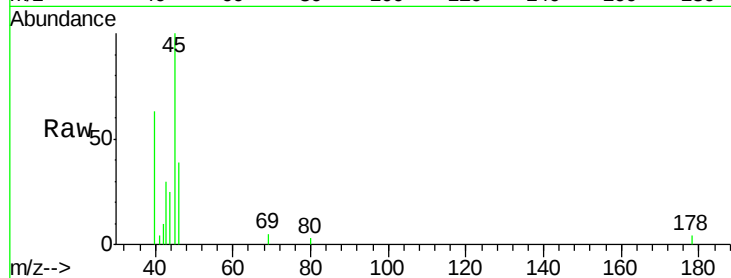
#13
Ethanol
Concen: 0.502 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 7216
Ion Ratio Lower Upper
45 100
46 59.8 14.9 59.5#

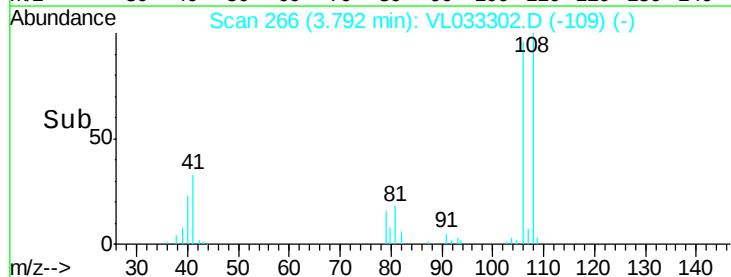
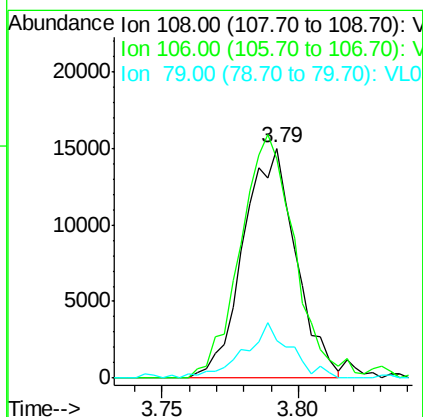
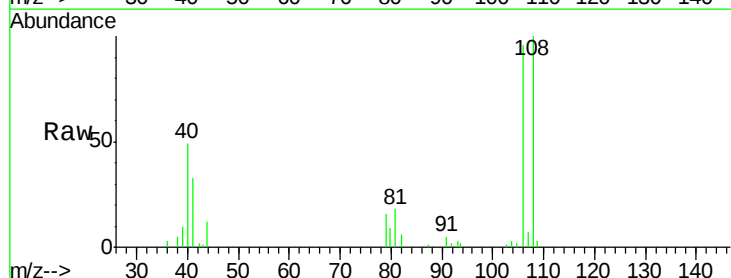
Manual Integrations
APPROVED

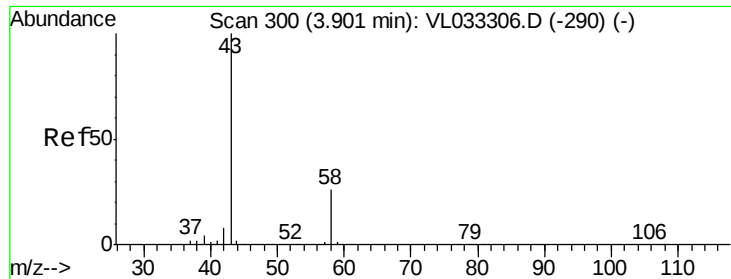
MMDadoda
3/15/2019 10:41:45 PM



#14
Bromoethene
Concen: 0.482 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 108 Resp: 20043
Ion Ratio Lower Upper
108 100
106 111.6 85.1 127.7
79 21.9 15.0 22.6





#15

Acetone

Concen: 0.516 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 61638

Ion Ratio Lower Upper

43 100

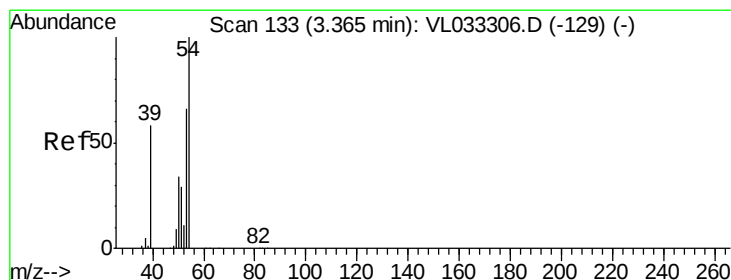
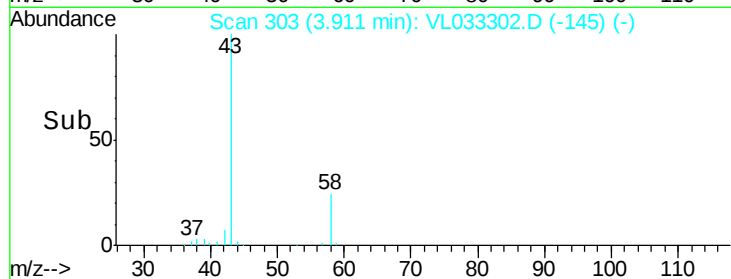
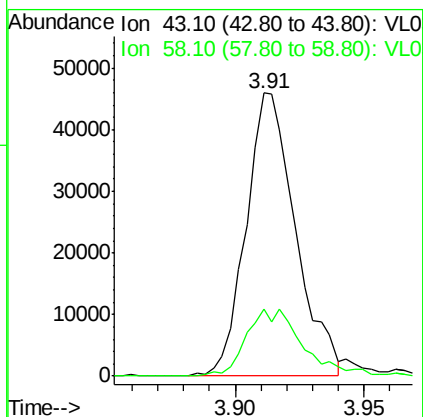
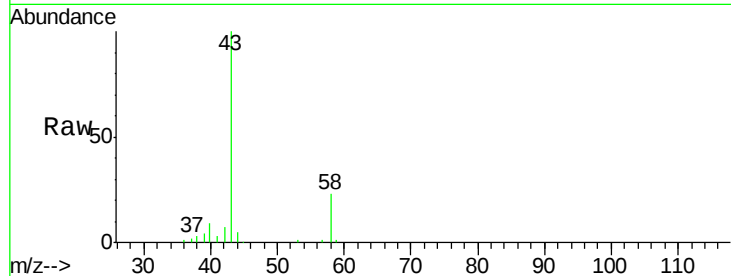
58 27.0 20.6 31.0

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:45 PM



#16

1,3-Butadiene

Concen: 0.580 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033302.D

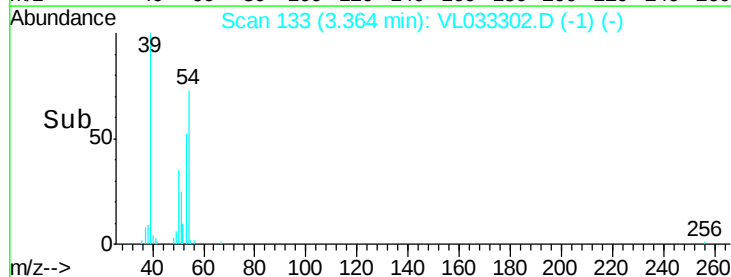
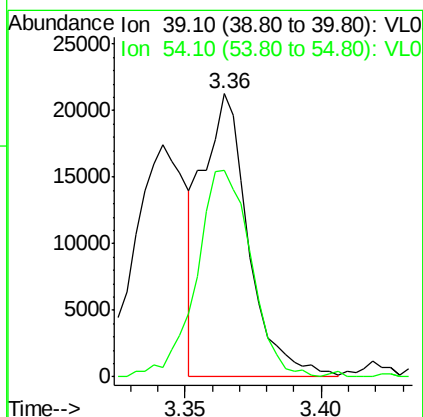
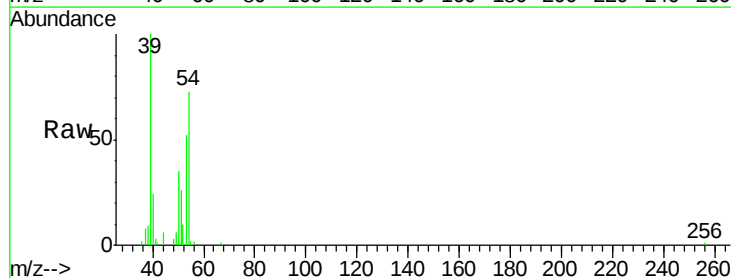
Acq: 13 Mar 2019 18:27

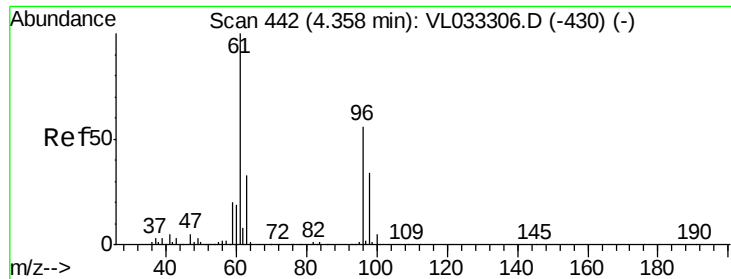
Tgt Ion: 39 Resp: 24996

Ion Ratio Lower Upper

39 100

54 87.0 68.4 102.6





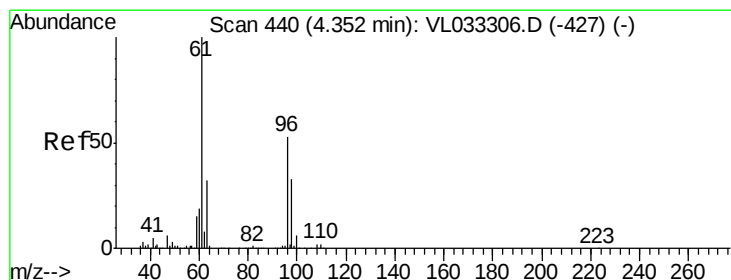
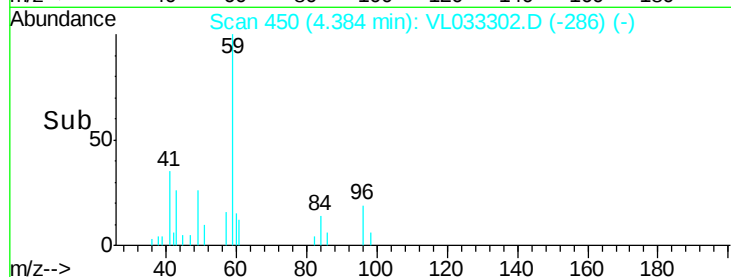
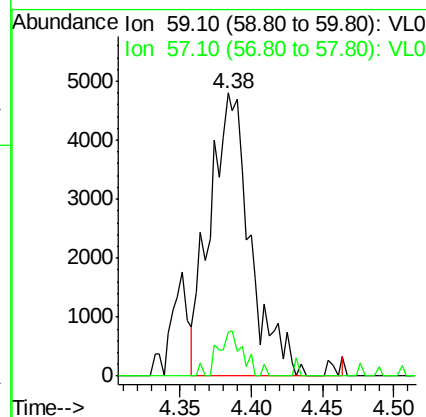
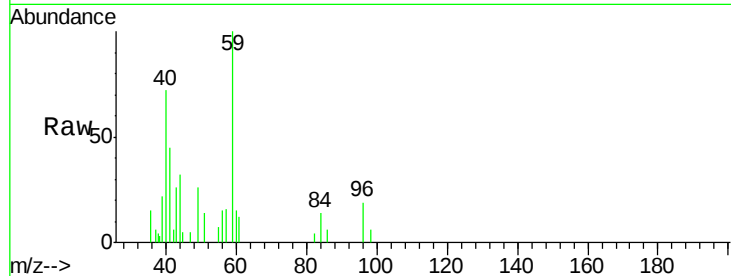
#17
tert-Butyl alcohol
Concen: 0.599 ppbv m
RT: 4.38 min Scan# 450
Delta R.T. 0.03 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tgt Ion: 59 Resp: 9602
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#

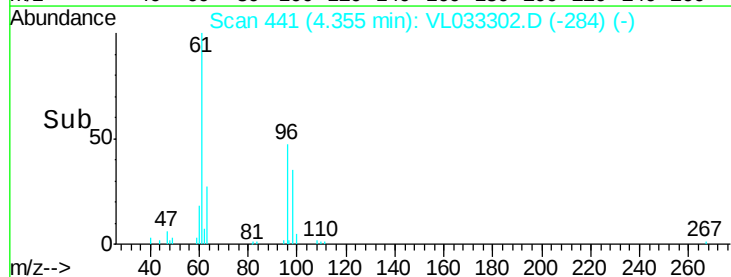
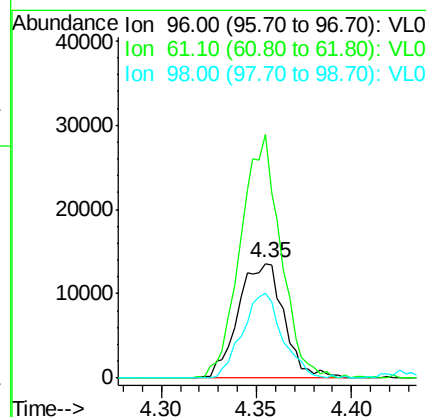
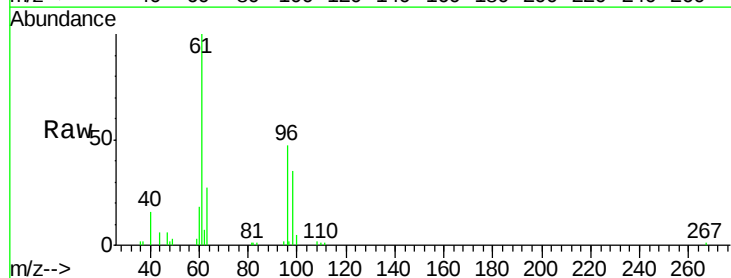
Manual Integrations
APPROVED

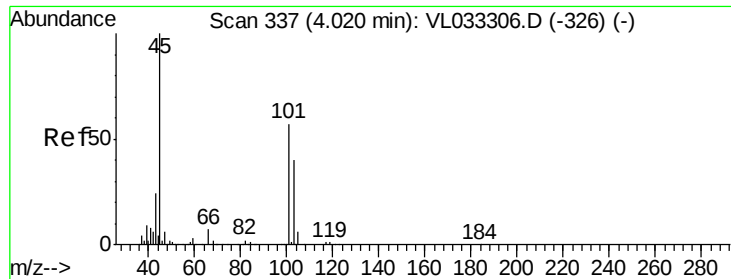
MMDadoda
3/15/2019 10:41:45 PM



#18
1,1-Dichloroethene
Concen: 0.578 ppbv m
RT: 4.35 min Scan# 441
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 96 Resp: 22812
Ion Ratio Lower Upper
96 100
61 211.9 152.3 228.5
98 73.8 48.6 72.8#





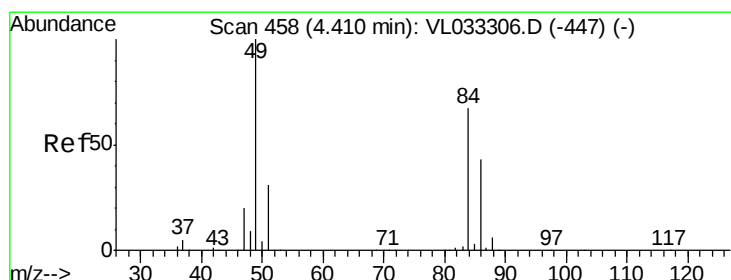
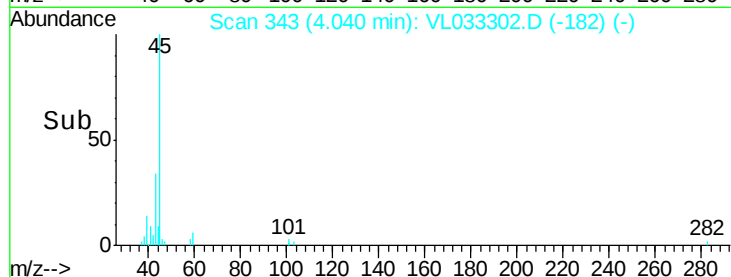
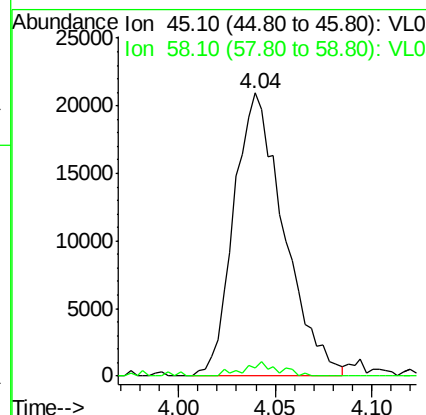
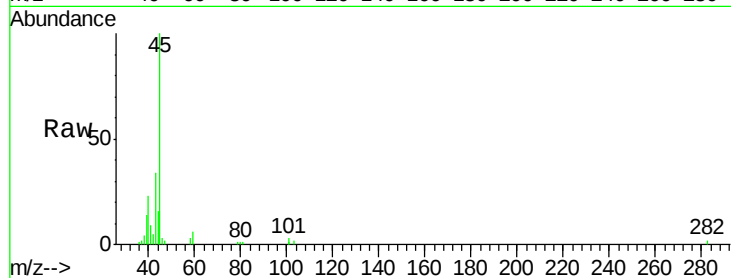
#19
Isopropyl Alcohol
Concen: 0.523 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 37741
Ion Ratio Lower Upper
45 100
58 3.4 1.4 2.0#

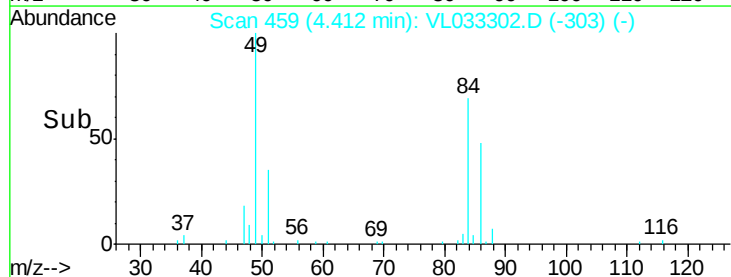
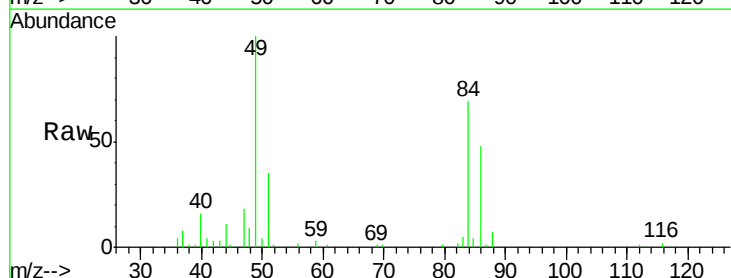
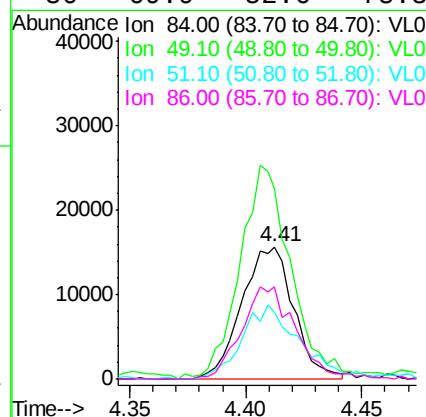
Manual Integrations
APPROVED

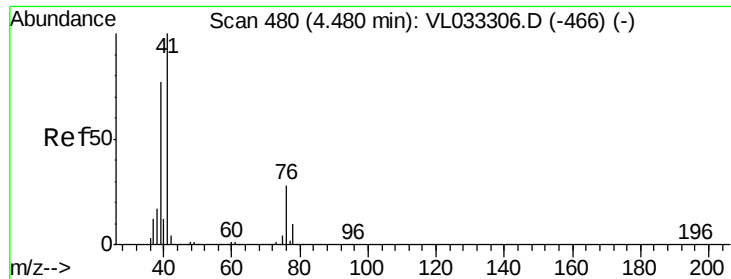
MMDadoda
3/15/2019 10:41:45 PM



#20
Methylene Chloride
Concen: 0.613 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 84 Resp: 24357
Ion Ratio Lower Upper
84 100
49 142.3 115.4 173.2
51 52.3 35.7 53.5
86 69.9 52.6 78.8





#21

Allyl Chloride

Concen: 0.561 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

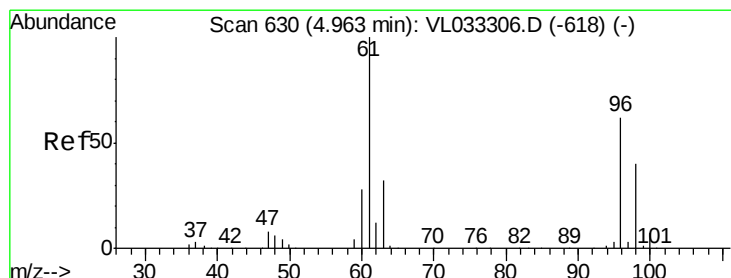
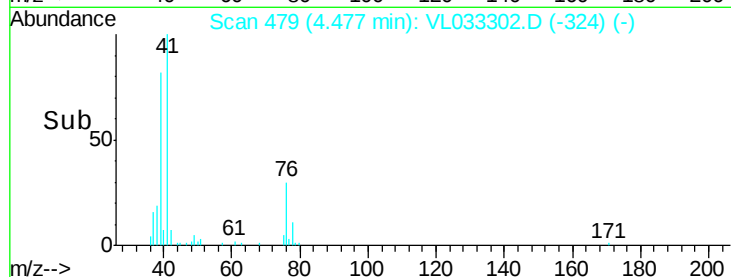
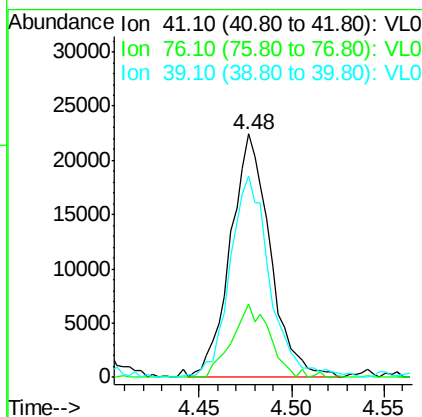
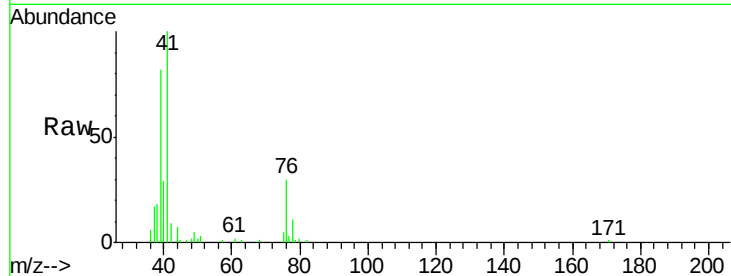
ClientSampleId :

VSTDIC0.5

Tgt Ion:	41	Resp:	33310
Ion	Ratio	Lower	Upper
41	100		
76	28.7	24.3	36.5
39	84.0	64.4	96.6

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#22

trans-1,2-Dichloroethene

Concen: 0.524 ppbv

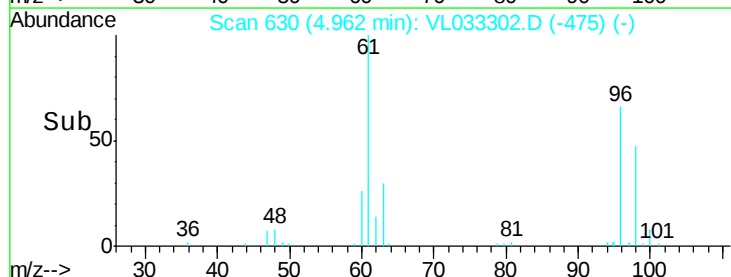
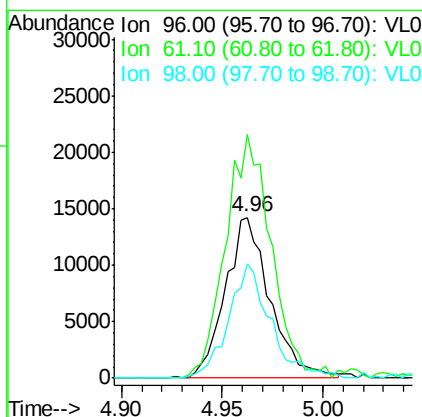
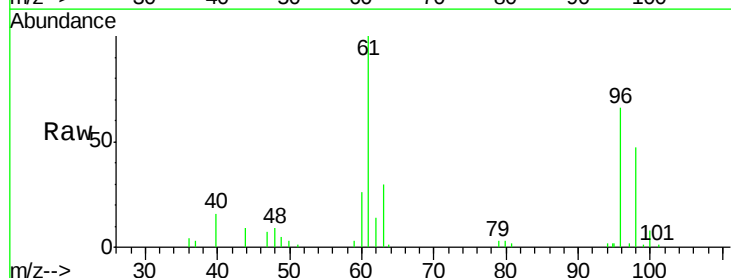
RT: 4.96 min Scan# 630

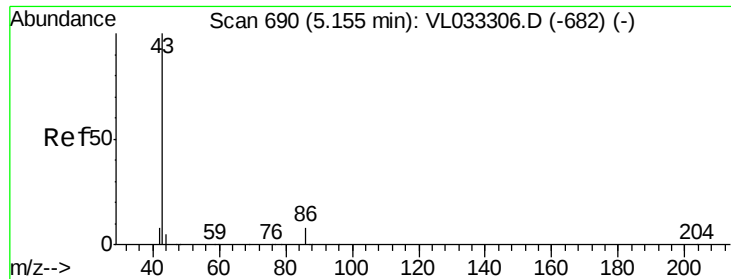
Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:	96	Resp:	22040
Ion	Ratio	Lower	Upper
96	100		
61	149.8	132.7	199.1
98	69.9	52.4	78.6





#23

Vinyl Acetate

Concen: 0.493 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

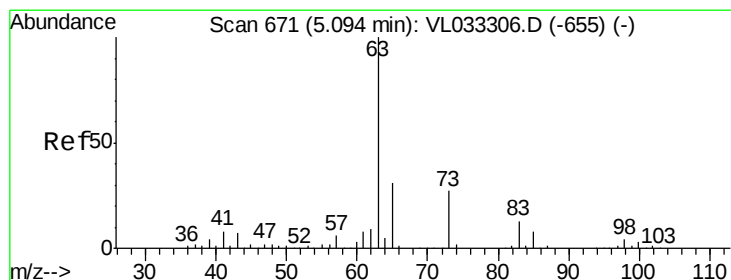
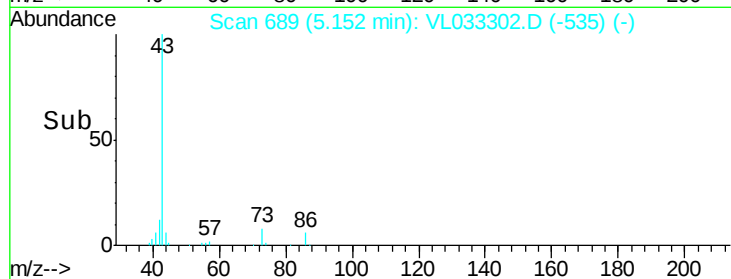
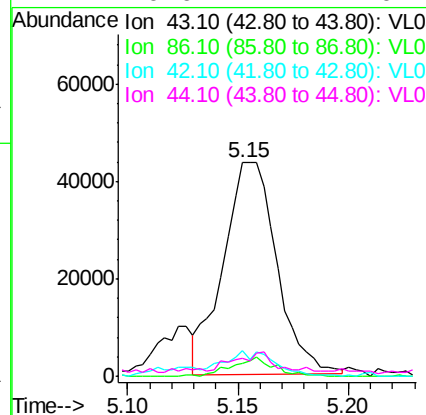
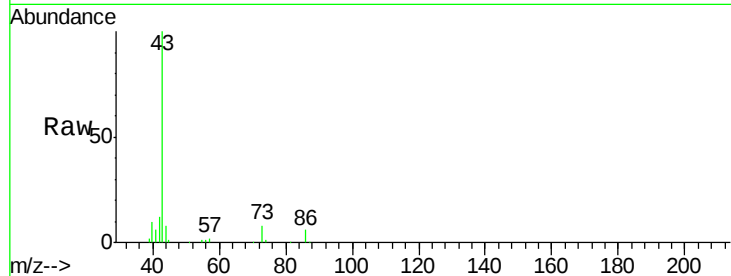
ClientSampleId :

VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
43	100		
86	5.9	5.8	8.8
42	12.6	7.8	11.8#
44	6.6	4.1	6.1#

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#24

1,1-Dichloroethane

Concen: 0.533 ppbv

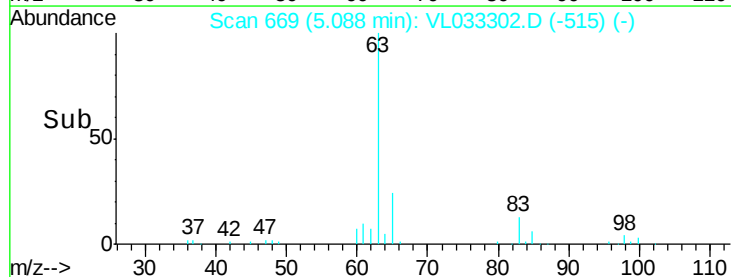
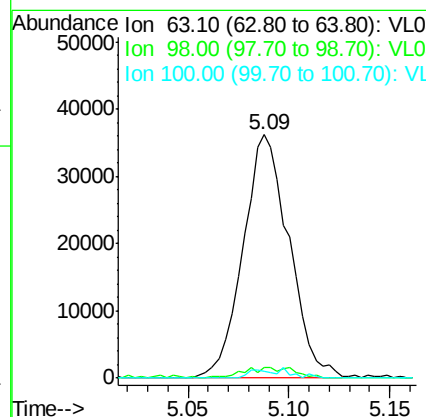
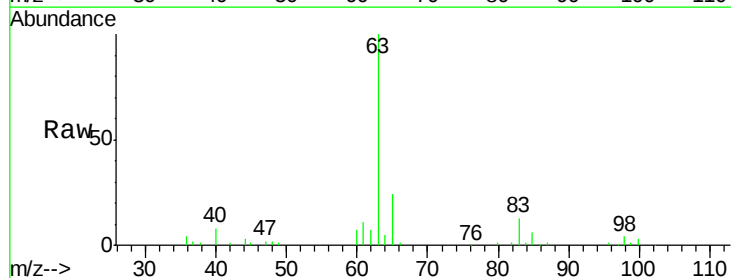
RT: 5.09 min Scan# 669

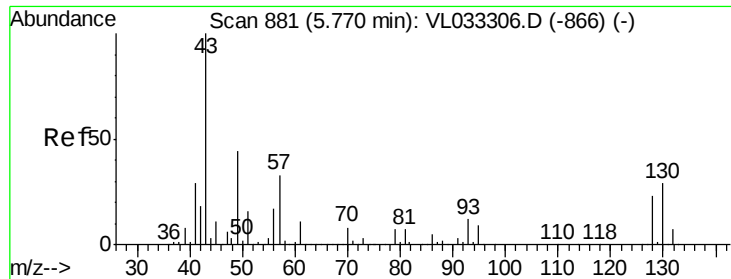
Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.3	6.8
100	2.7	1.3	3.8





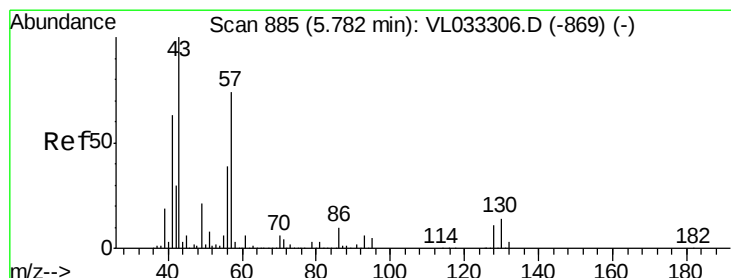
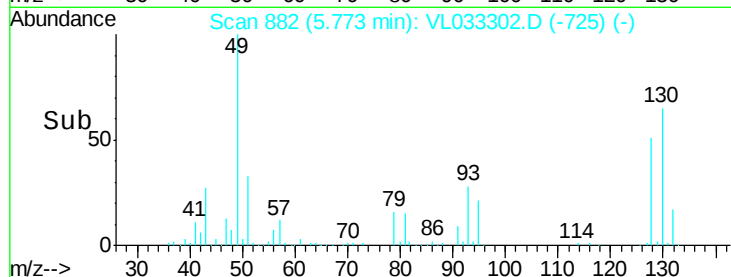
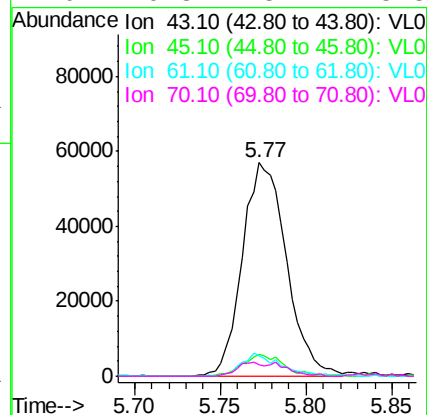
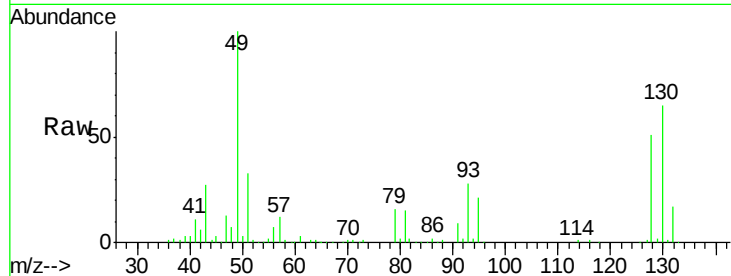
#25
Ethyl Acetate
Concen: 0.552 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.0	12.0
61	9.6	7.5	11.3
70	6.8	5.7	8.5

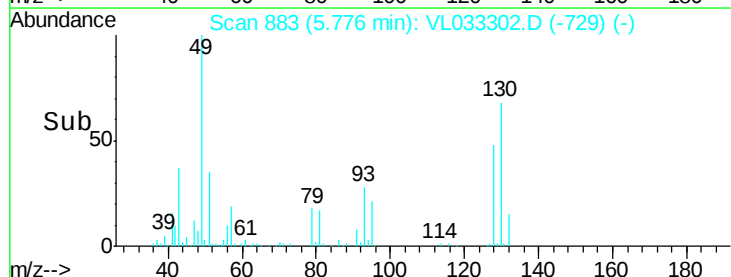
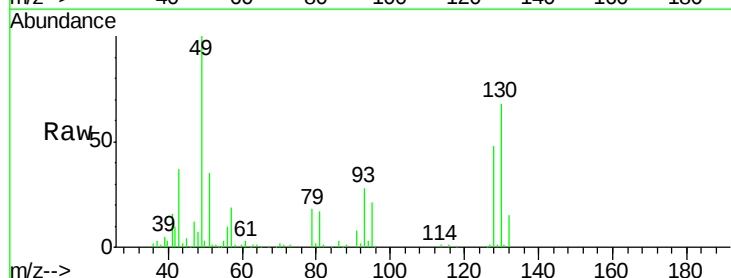
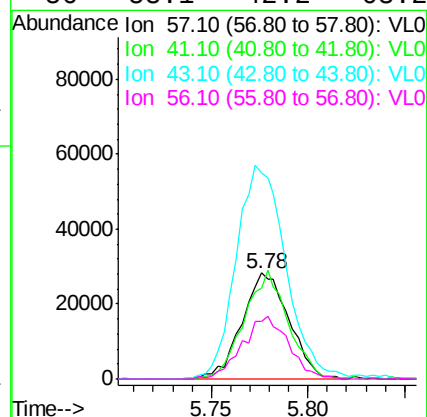
Manual Integrations
APPROVED

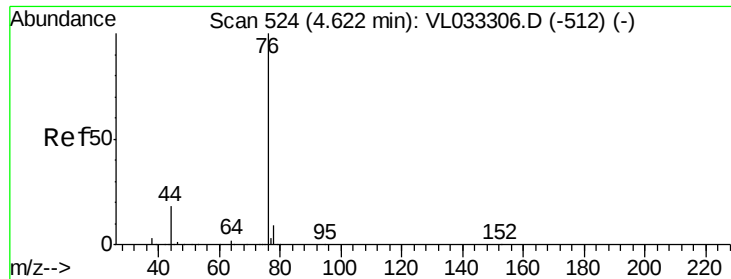
MMDadoda
3/15/2019 10:41:45 PM



#26
Hexane
Concen: 0.553 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	97.0	71.6	107.4
43	216.9	179.2	268.8
56	58.1	42.2	63.2





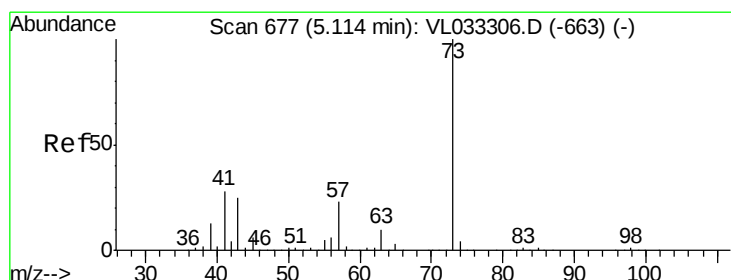
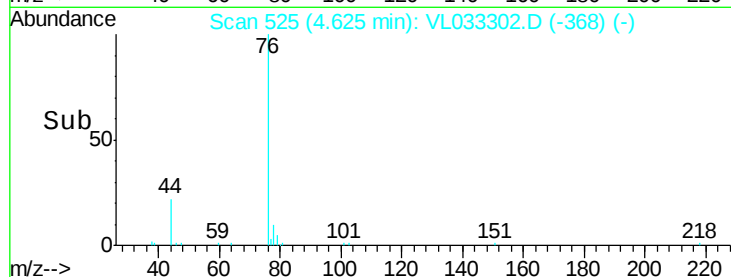
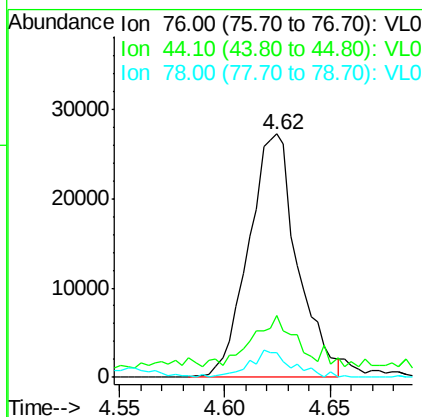
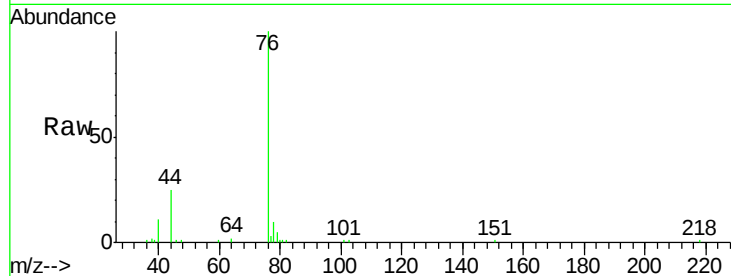
#27
Carbon Disulfide
Concen: 0.477 ppbv
RT: 4.62 min Scan# 525
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
76	100		
44	25.3	14.7	22.1#
78	9.9	7.3	10.9

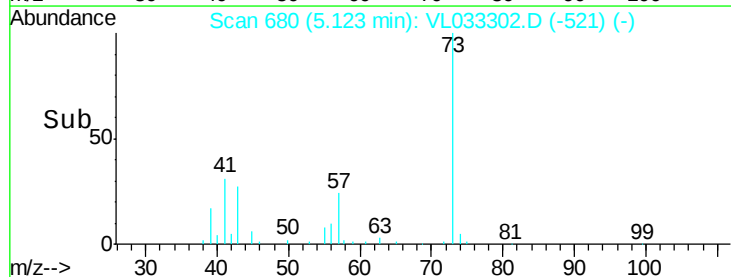
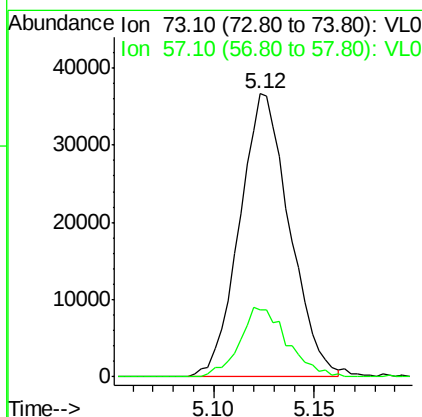
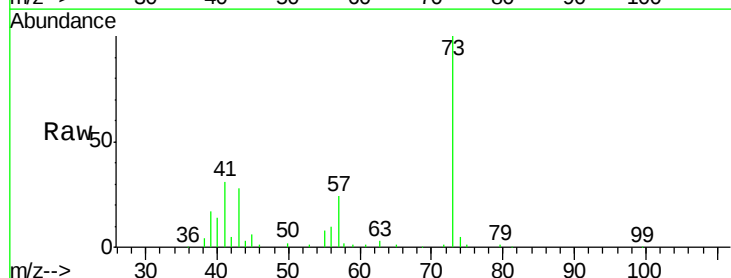
Manual Integrations
APPROVED

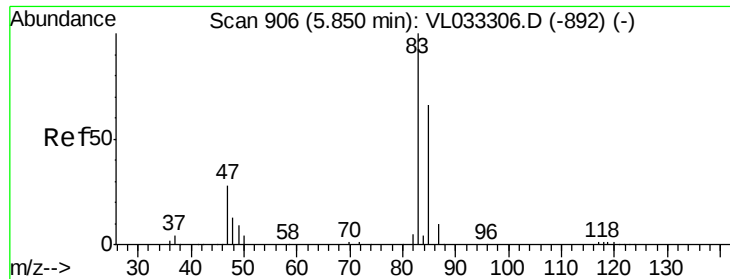
MMDadoda
3/15/2019 10:41:45 PM



#28
Methyl tert-Butyl Ether
Concen: 0.518 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.3	17.4	26.0





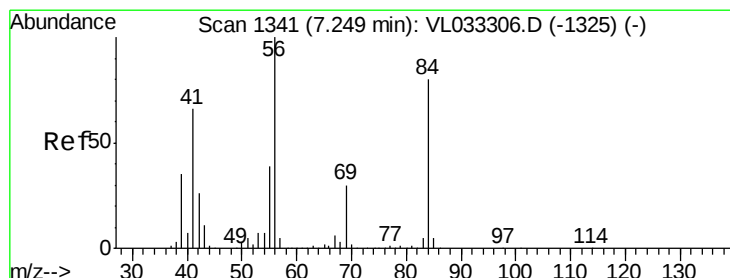
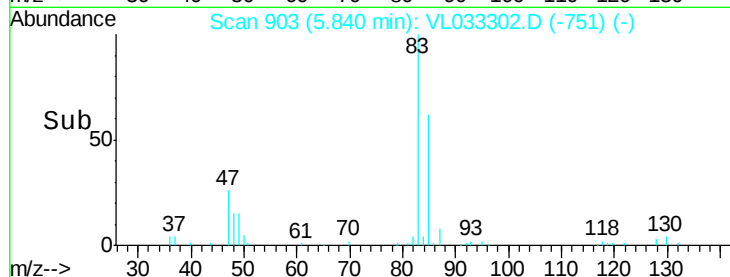
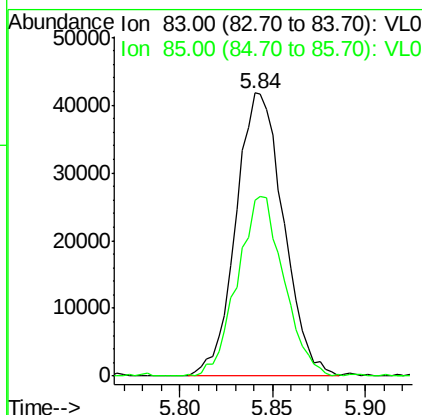
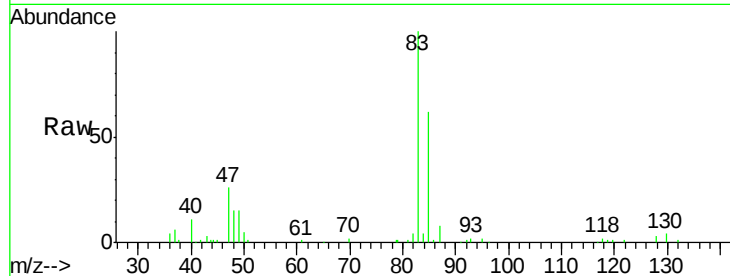
#29
Chloroform
Concen: 0.565 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 74320
Ion Ratio Lower Upper
83 100
85 61.4 52.2 78.4

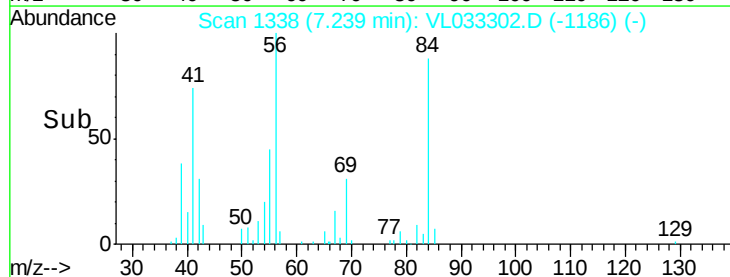
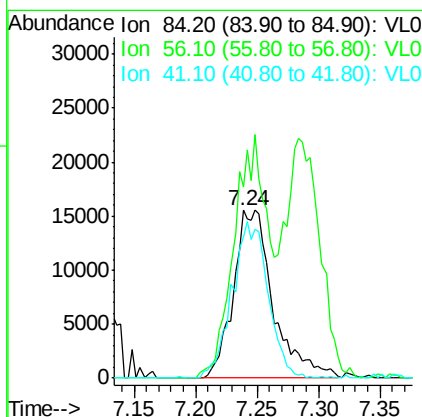
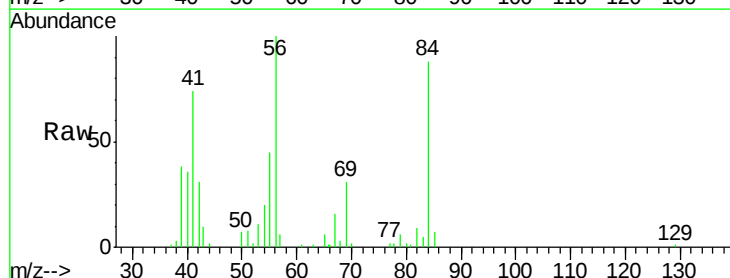
Manual Integrations
APPROVED

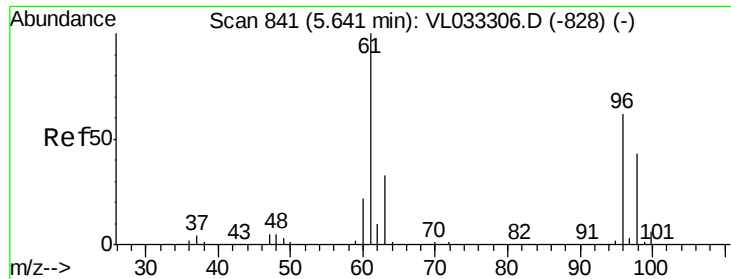
MMDadoda
3/15/2019 10:41:45 PM



#30
Cyclohexane
Concen: 0.525 ppbv m
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 84 Resp: 35156
Ion Ratio Lower Upper
84 100
56 0.0 109.8 164.8#
41 84.1 68.1 102.1





#31

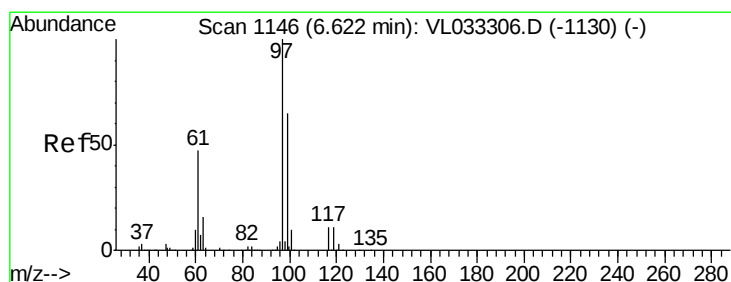
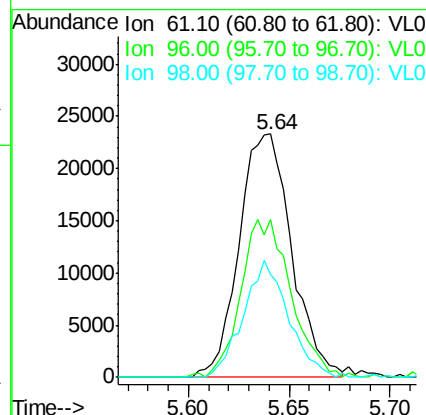
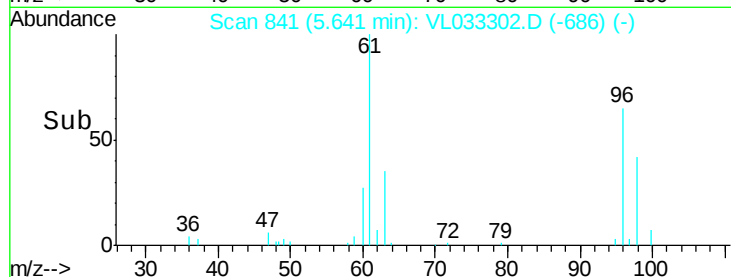
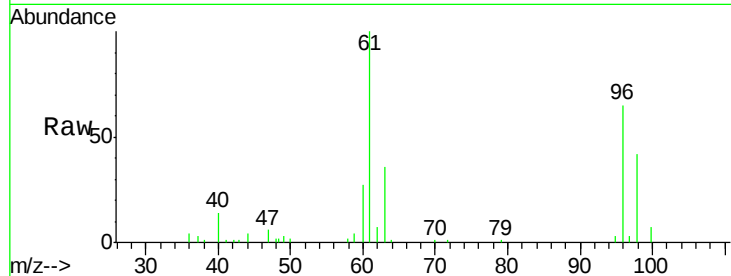
cis-1,2-Dichloroethene
 Concen: 0.514 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
61	100		
96	64.7	51.8	77.6
98	42.2	32.3	48.5

Manual Integrations
 APPROVED

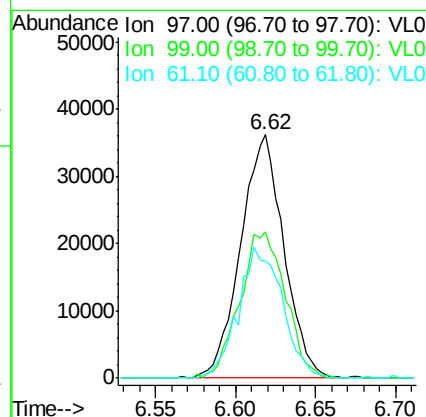
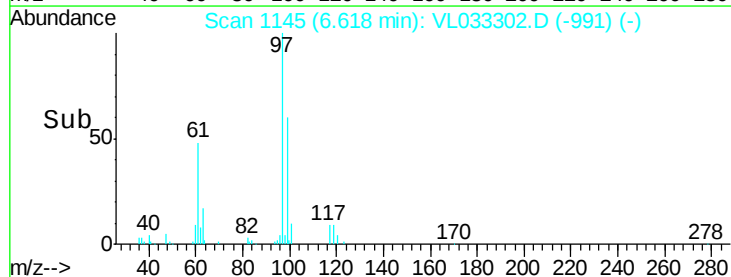
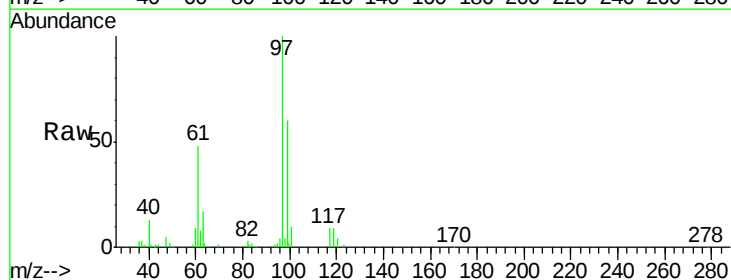
MMDadoda
 3/15/2019 10:41:45 PM

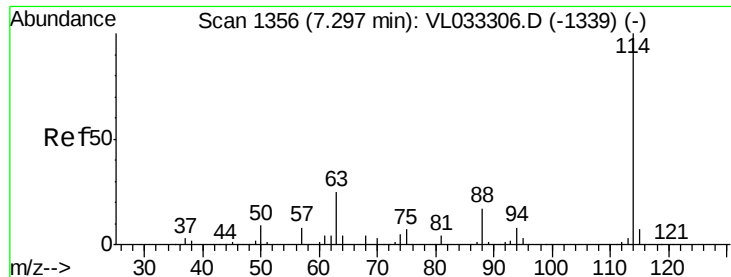


#32

1,1,1-Trichloroethane
 Concen: 0.520 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.6	77.4
61	54.8	39.4	59.2





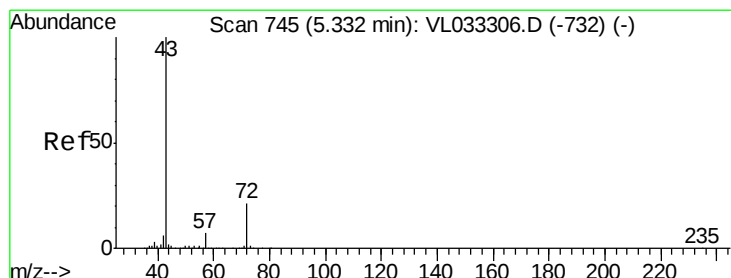
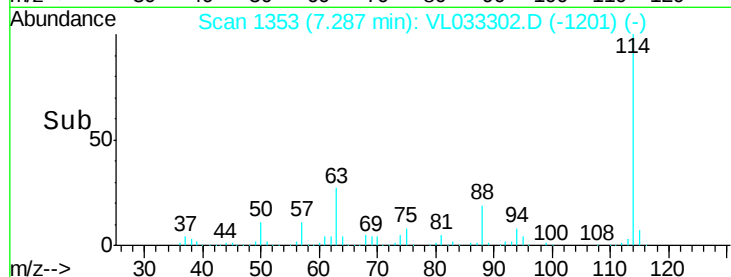
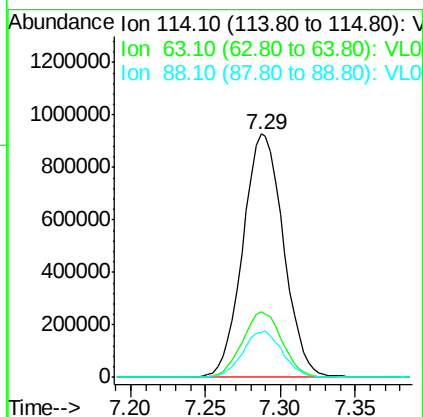
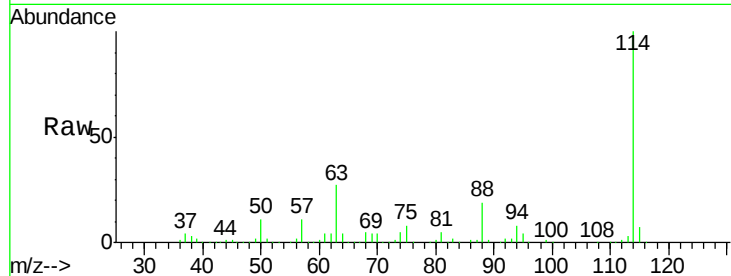
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 114 Resp: 1754371
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.3 31.9
 88 18.7 14.5 21.7

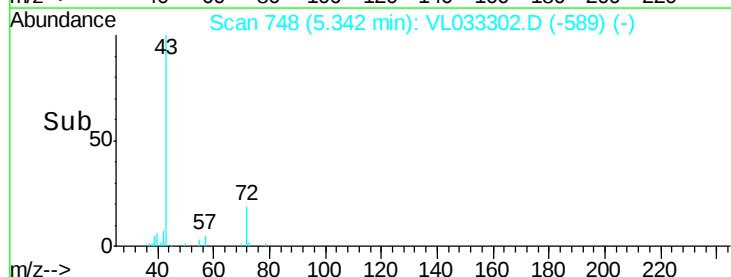
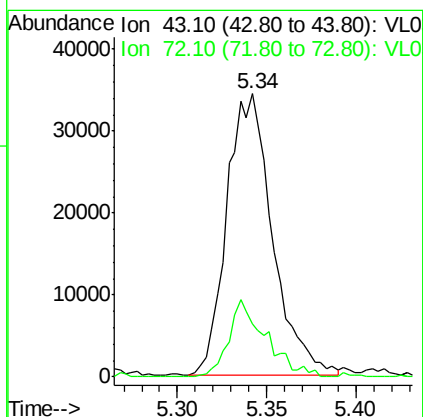
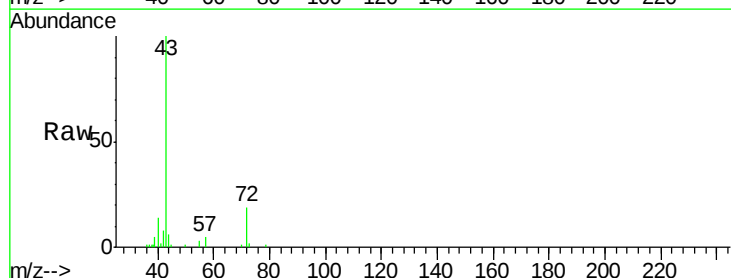
Manual Integrations
 APPROVED

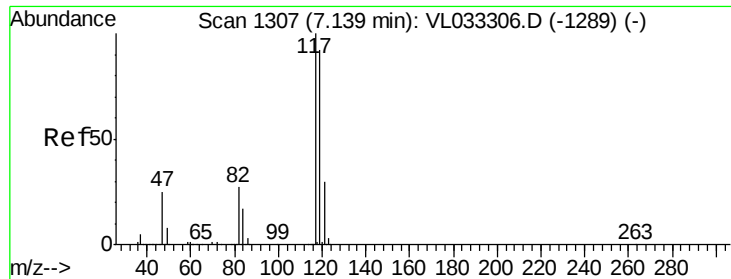
MMDadoda
 3/15/2019 10:41:45 PM



#34
 2-Butanone
 Concen: 0.529 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion: 43 Resp: 61316
 Ion Ratio Lower Upper
 43 100
 72 22.6 17.2 25.8





#35

Carbon Tetrachloride

Concen: 0.508 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

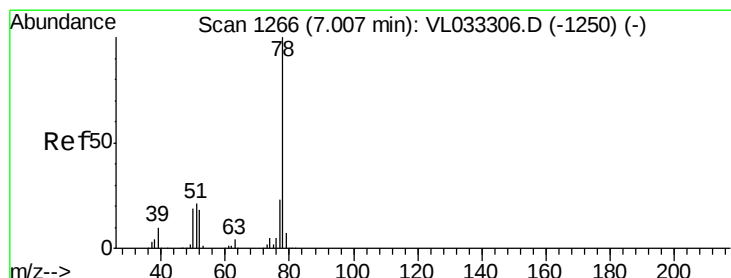
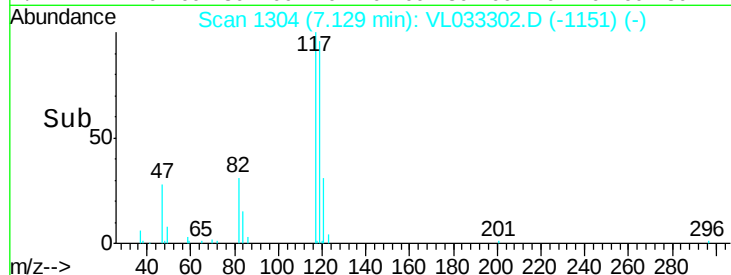
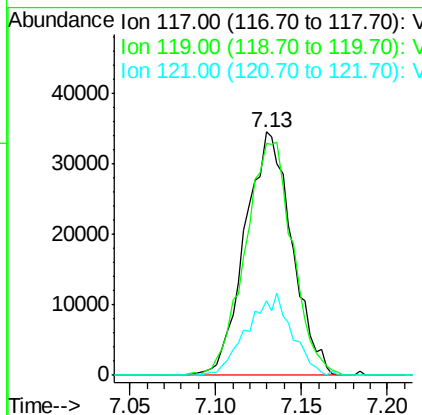
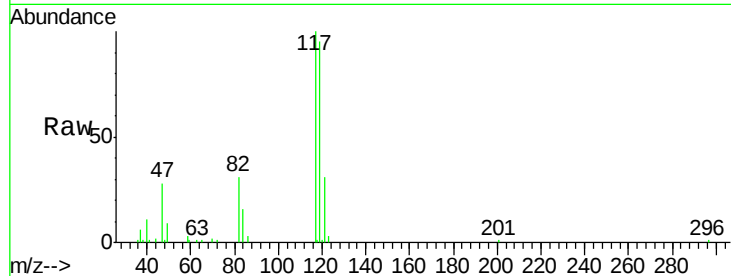
ClientSampleId :

VSTDIC0.5

Tgt Ion:	117	Resp:	65152
Ion	Ratio	Lower	Upper
117	100		
119	93.7	75.9	113.9
121	30.4	25.2	37.8

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#36

Benzene

Concen: 0.557 ppbv m

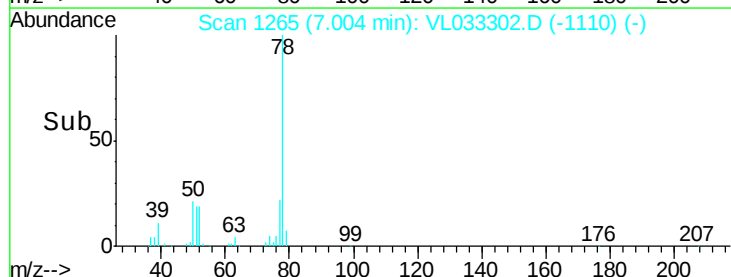
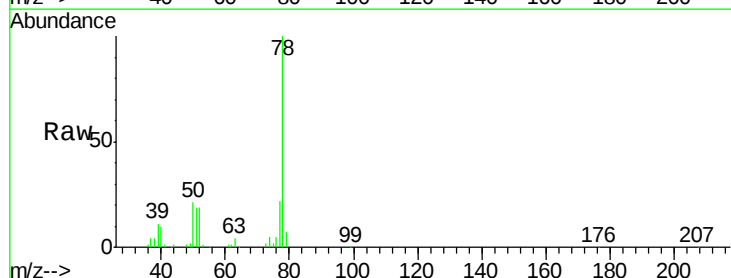
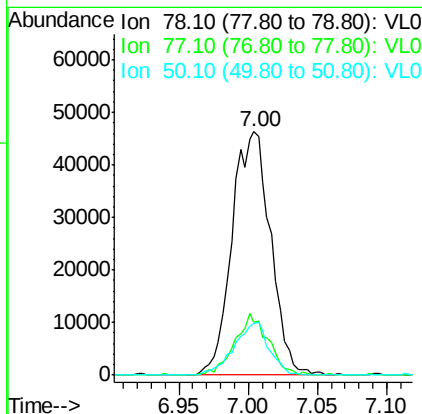
RT: 7.00 min Scan# 1265

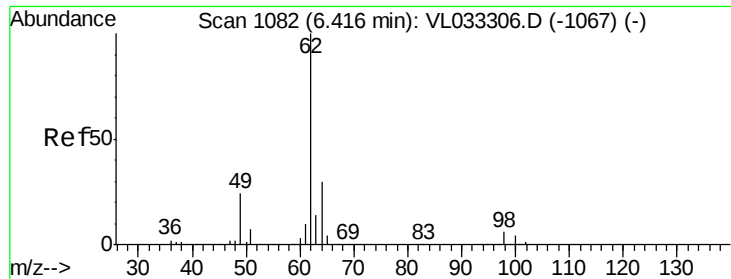
Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:	78	Resp:	90044
Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.6	28.0
50	21.4	15.2	22.8





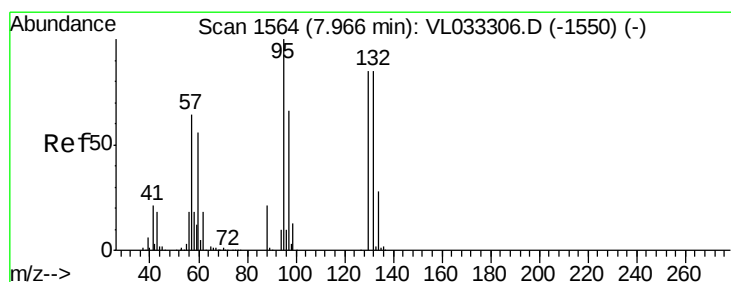
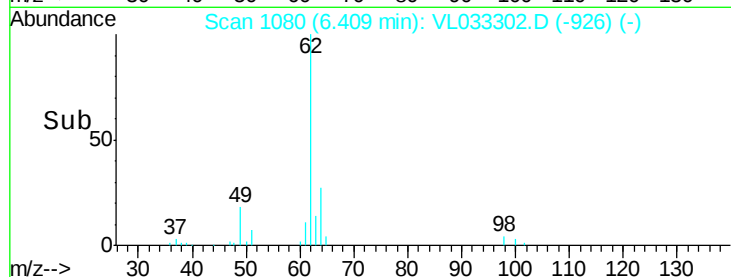
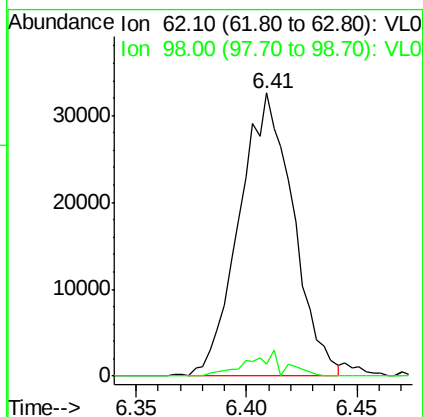
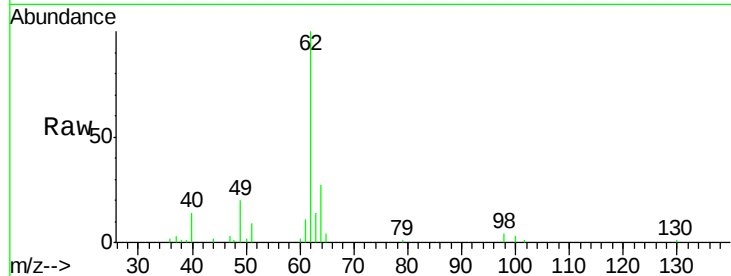
#37
1,2-Dichloroethane
Concen: 0.569 ppbv
RT: 6.41 min Scan# 1080
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 55214
Ion Ratio Lower Upper
62 100
98 5.9 4.4 6.6

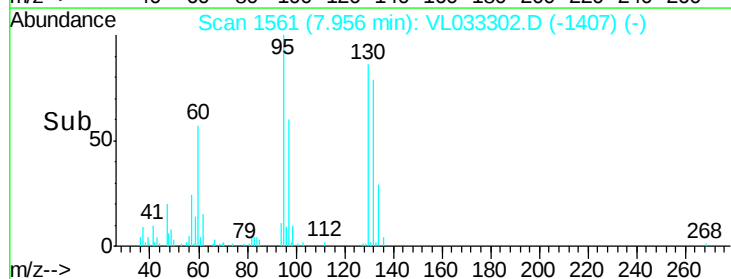
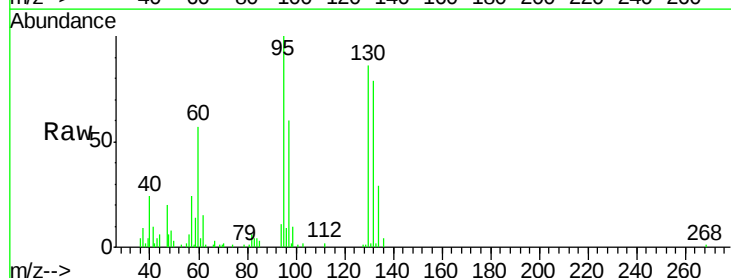
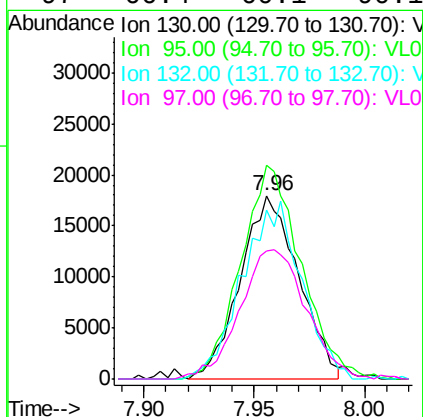
Manual Integrations
APPROVED

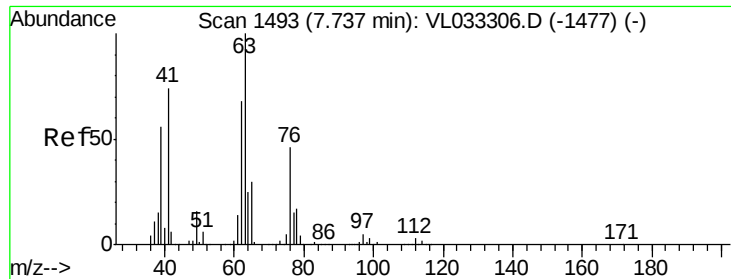
MMDadoda
3/15/2019 10:41:45 PM



#38
Trichloroethene
Concen: 0.523 ppbv
RT: 7.96 min Scan# 1561
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 130 Resp: 32985
Ion Ratio Lower Upper
130 100
95 114.1 95.2 142.8
132 90.3 72.5 108.7
97 66.4 60.1 90.1





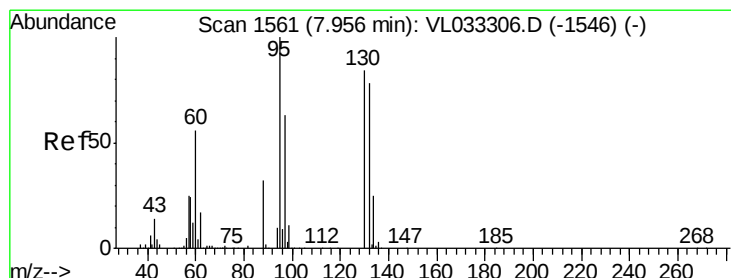
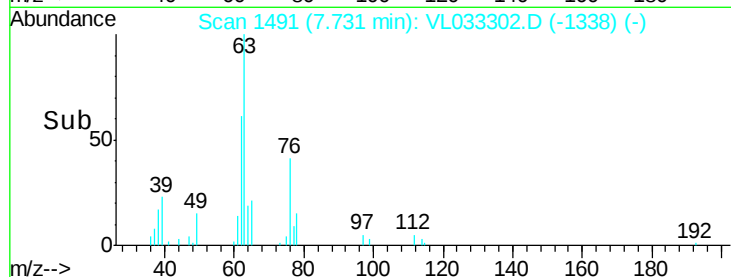
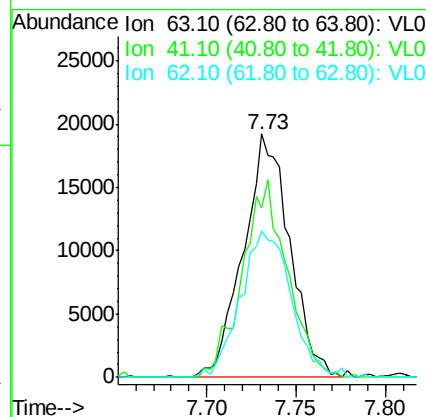
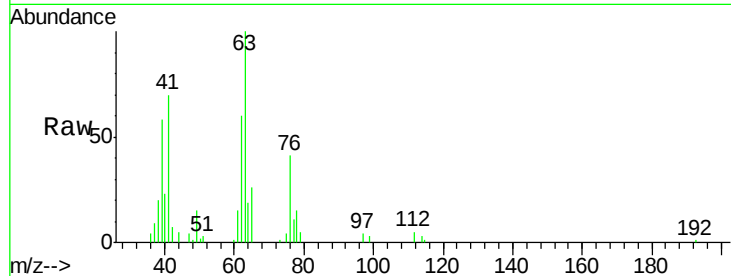
#39
 1,2-Dichloropropane
 Concen: 0.571 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
63	100		
41	69.6	59.0	88.4
62	60.2	53.0	79.4

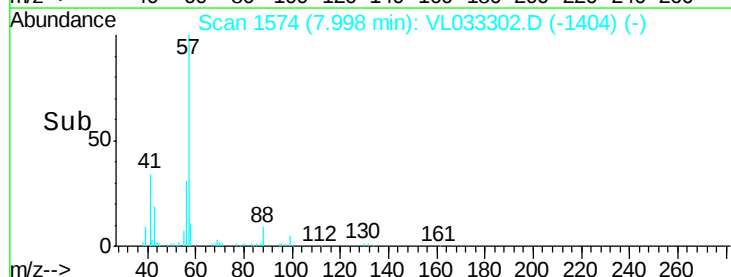
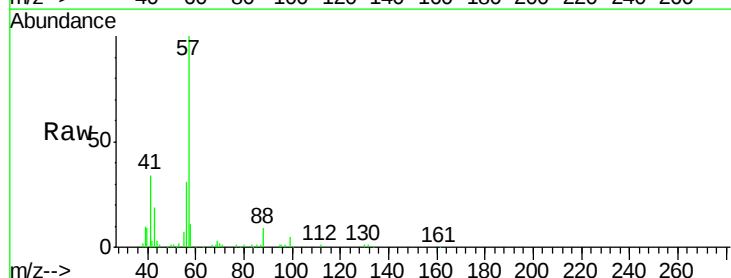
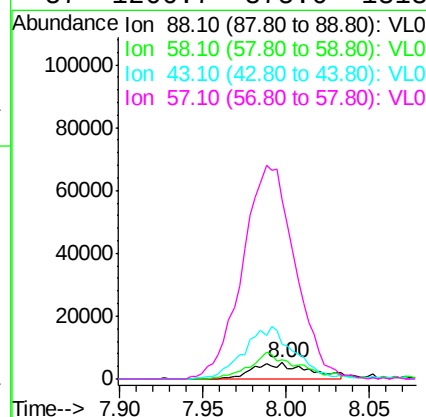
Manual Integrations
 APPROVED

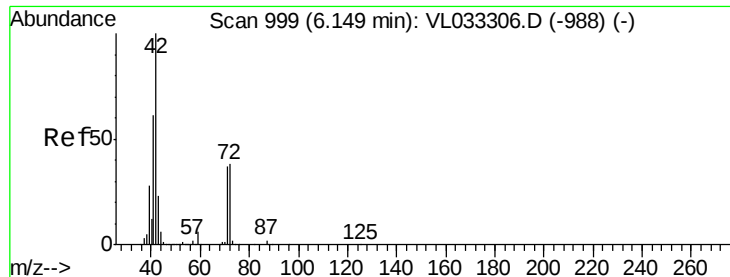
MMDadoda
 3/15/2019 10:41:45 PM



#40
 1,4-Dioxane
 Concen: 0.518 ppbv m
 RT: 8.00 min Scan# 1574
 Delta R.T. 0.05 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
88	100		
58	150.7	97.7	146.5#
43	302.3	199.4	299.2#
57	1266.7	875.6	1313.4





#41

Tetrahydrofuran

Concen: 0.535 ppbv m

RT: 6.17 min Scan# 1005

Delta R.T. 0.02 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

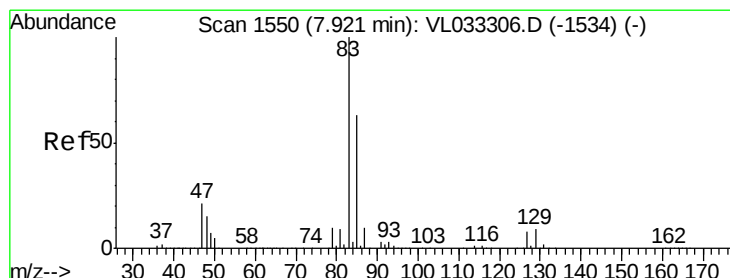
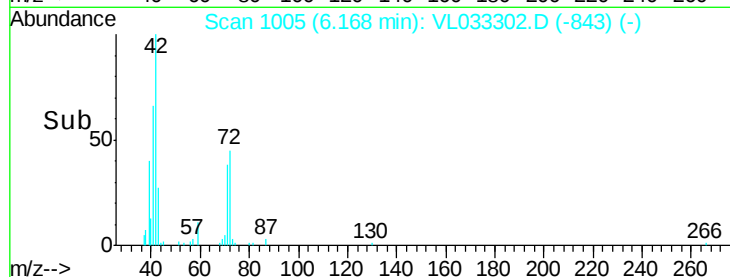
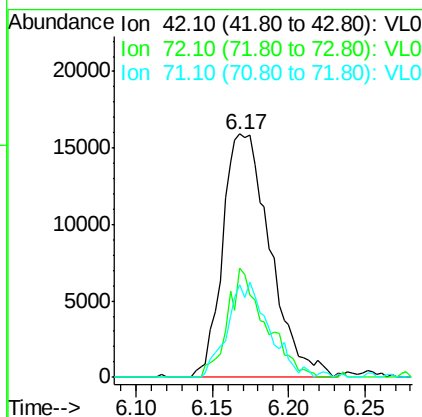
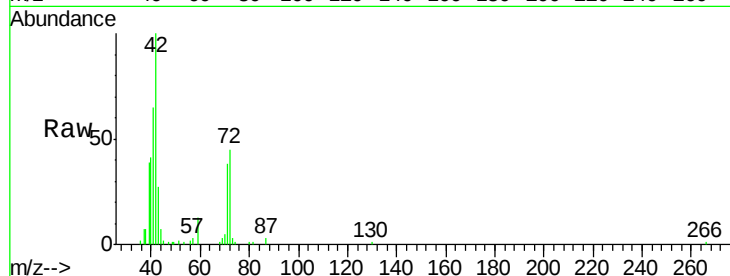
ClientSampleId :

VSTDIC0.5

Tgt Ion:	42	Resp:	34453
Ion Ratio	Lower	Upper	
42	100		
72	35.6	30.8	46.2
71	0.0	30.0	45.0#

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#42

Bromodichloromethane

Concen: 0.516 ppbv

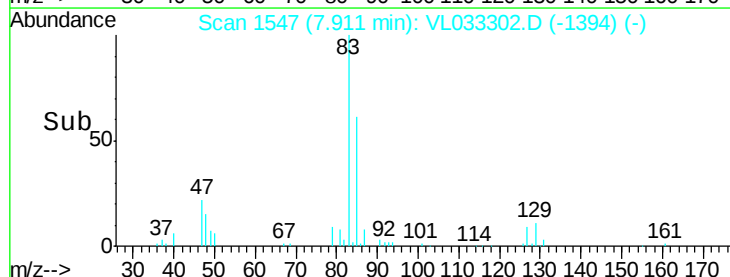
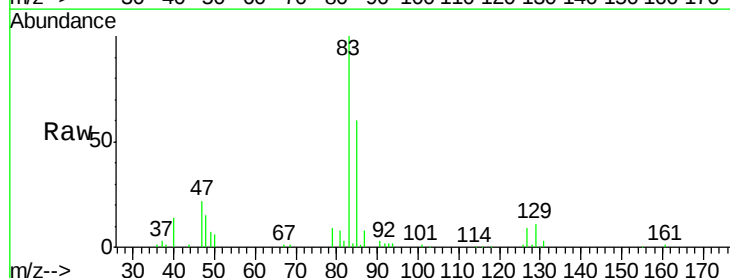
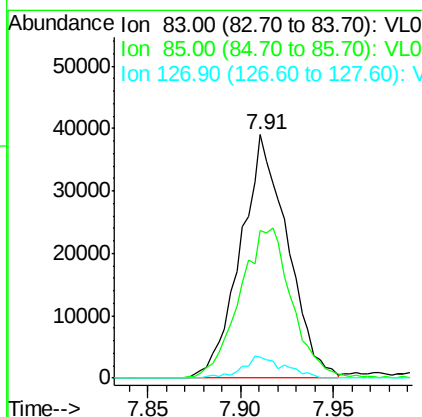
RT: 7.91 min Scan# 1547

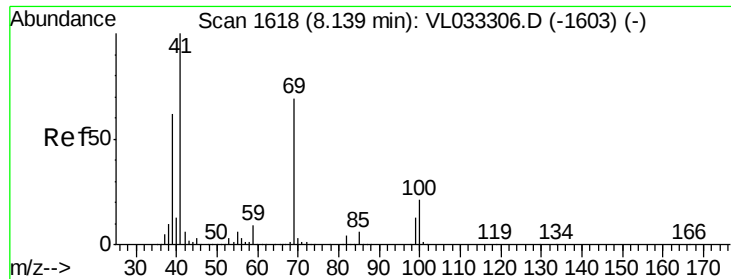
Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:	83	Resp:	68963
Ion Ratio	Lower	Upper	
83	100		
85	59.9	51.0	76.4
127	8.8	6.6	10.0





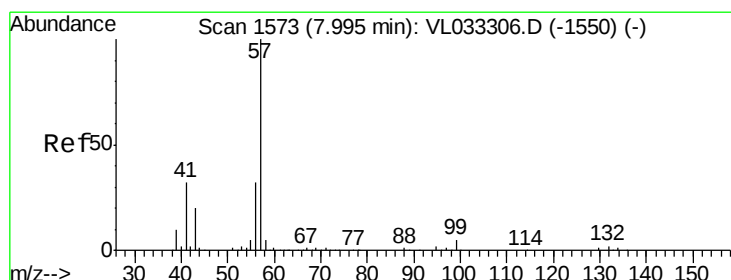
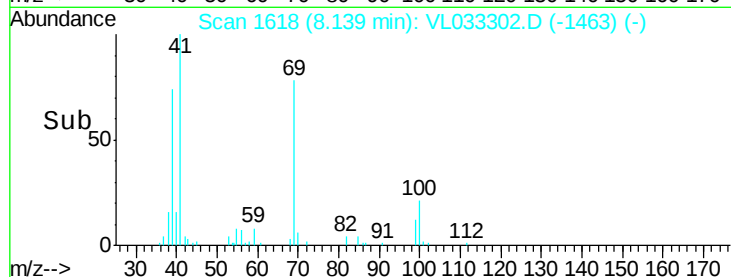
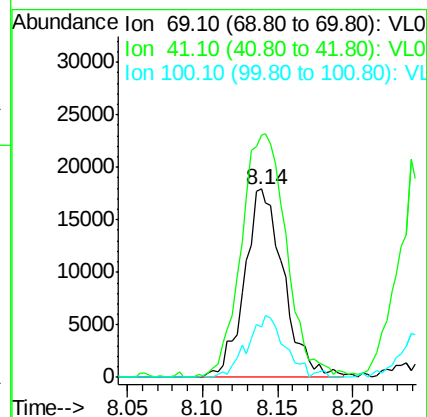
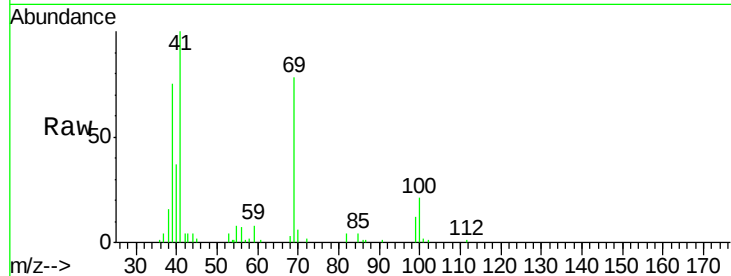
#43
Methyl Methacrylate
Concen: 0.516 ppbv m
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
69	100		
41	149.4	117.0	175.4
100	31.7	24.3	36.5

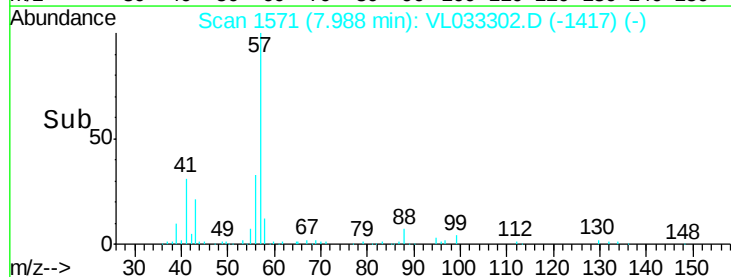
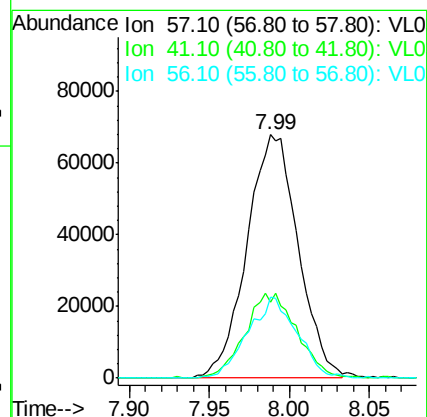
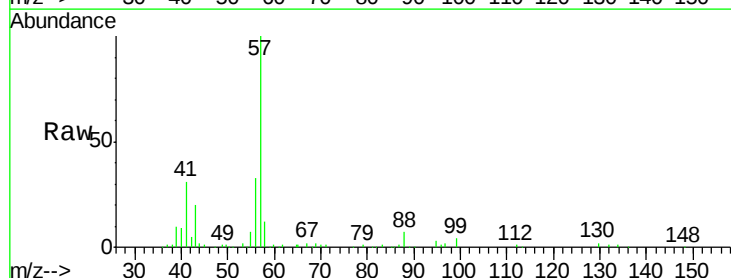
Manual Integrations
APPROVED

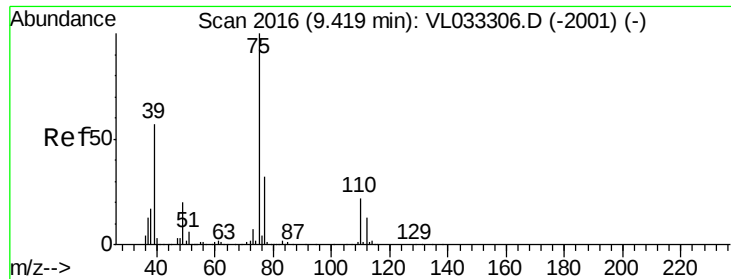
MMDadoda
3/15/2019 10:41:45 PM



#44
2,2,4-Trimethylpentane
Concen: 0.543 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.3	25.9	38.9
56	32.1	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 0.404 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 75 Resp: 31354

Ion Ratio Lower Upper

75 100

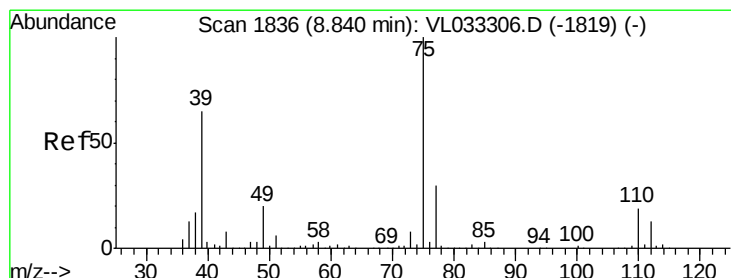
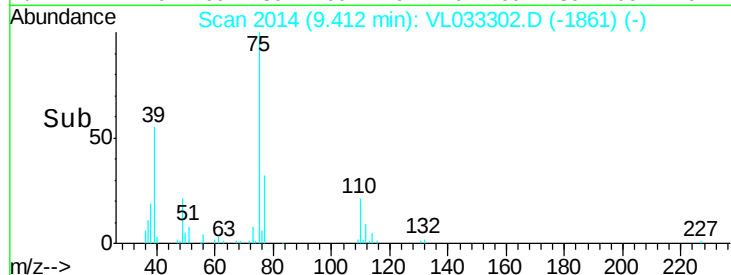
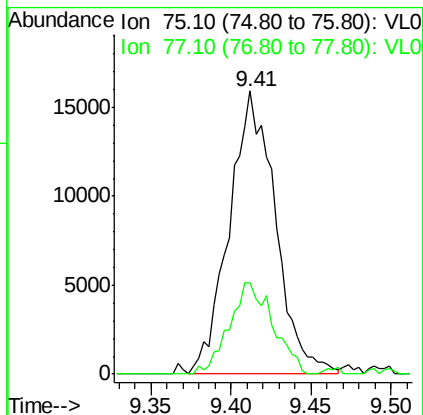
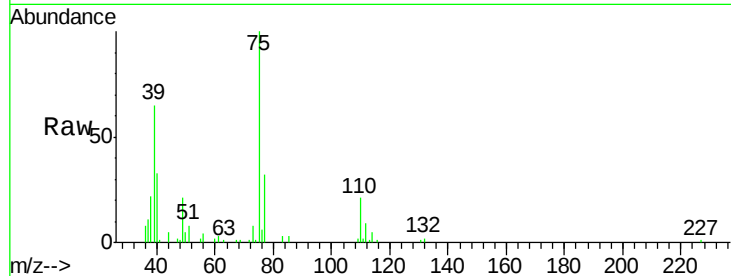
77 32.4 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:45 PM



#46

cis-1,3-Dichloropropene

Concen: 0.460 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

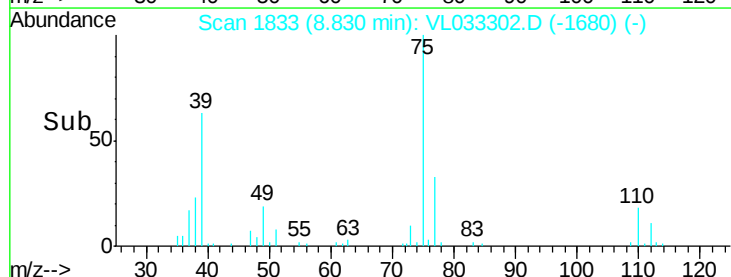
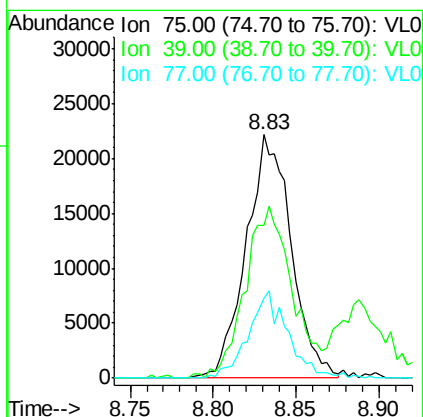
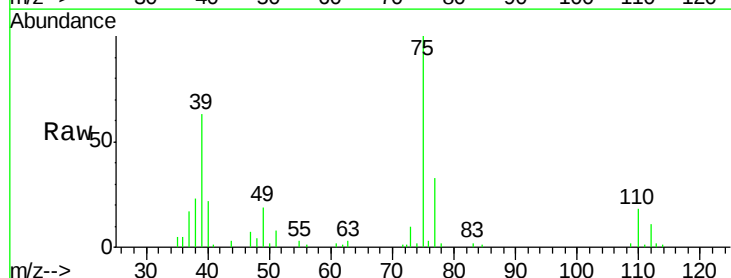
Tgt Ion: 75 Resp: 41795

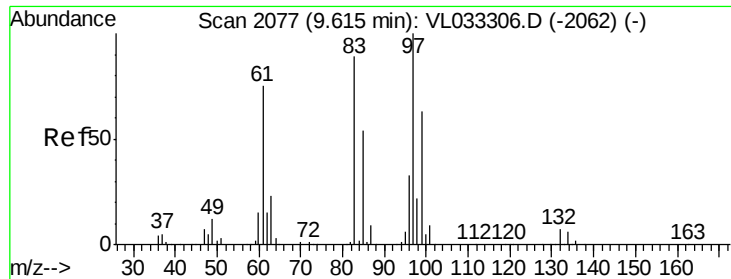
Ion Ratio Lower Upper

75 100

39 62.8 53.4 80.2

77 32.8 23.7 35.5





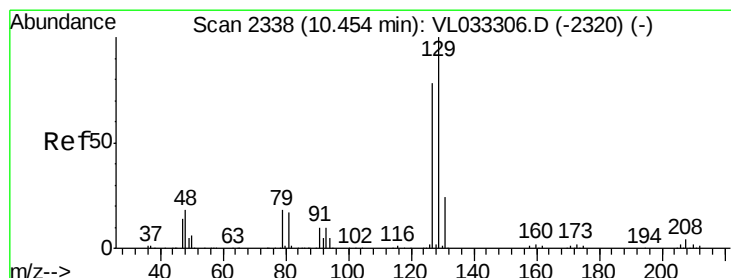
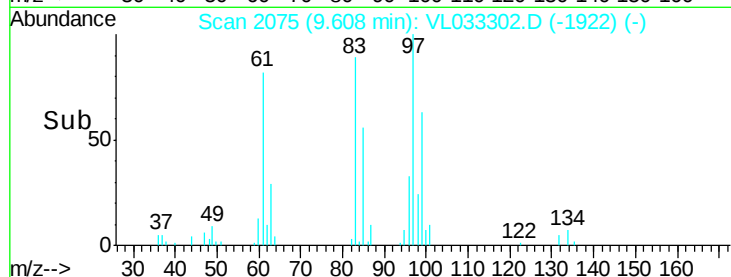
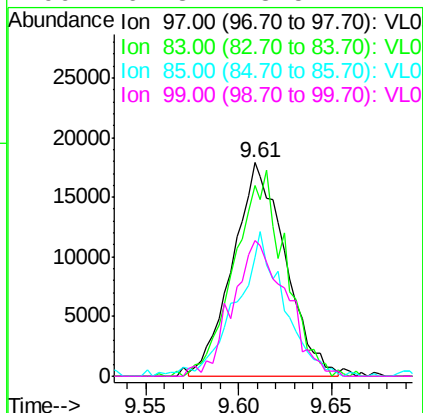
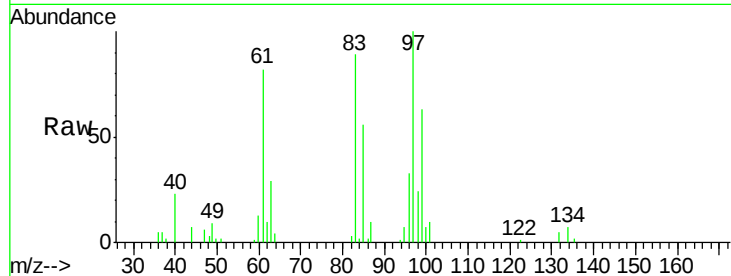
#47
 1,1,2-Trichloroethane
 Concen: 0.545 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:	97	Resp:	35429
Ion	Ratio	Lower	Upper
97	100		
83	89.1	72.7	109.1
85	55.6	45.6	68.4
99	62.3	48.5	72.7

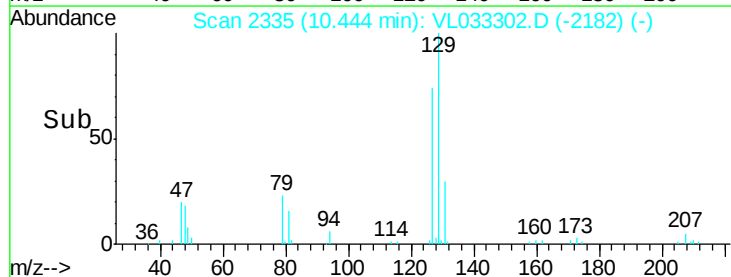
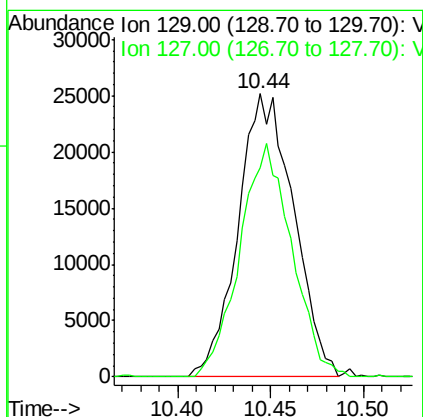
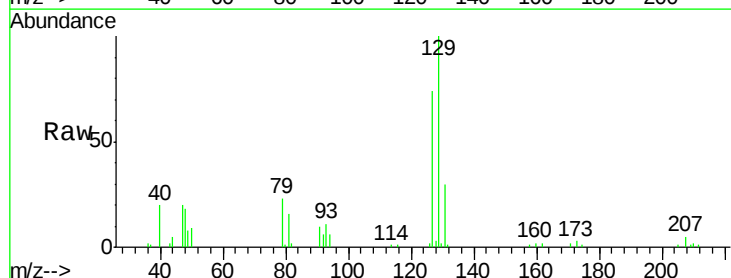
Manual Integrations
 APPROVED

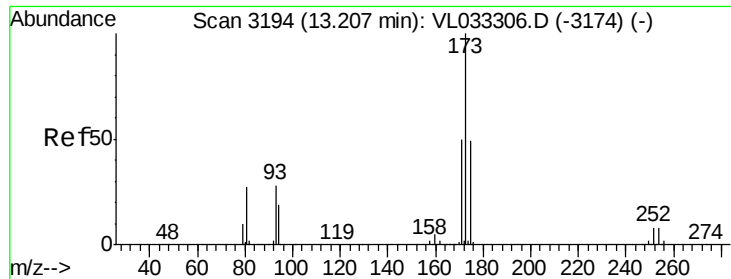
MMDadoda
 3/15/2019 10:41:45 PM



#48
 Dibromochloromethane
 Concen: 0.491 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion:	129	Resp:	52310
Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.0	117.0





#49

Bromoform

Concen: 0.475 ppbv m

RT: 13.20 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

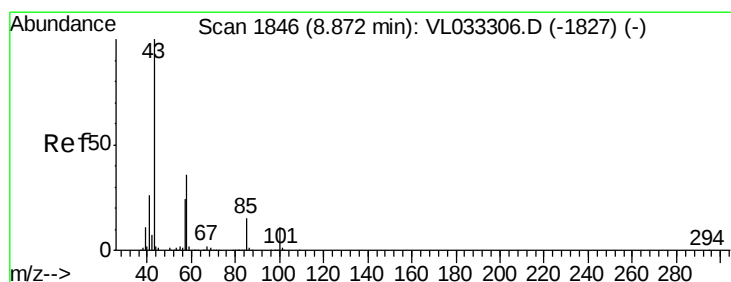
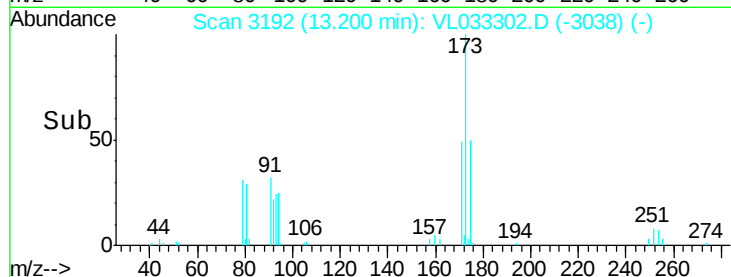
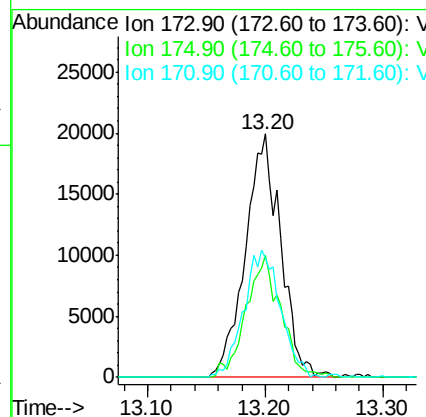
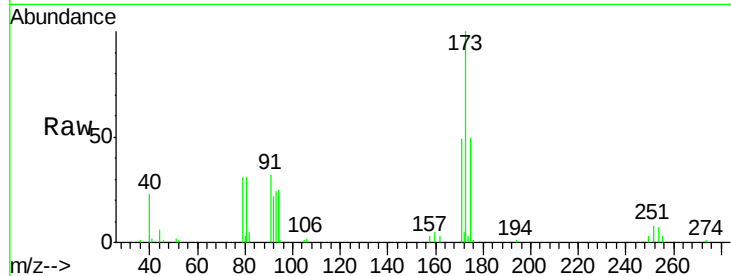
ClientSampleId :

VSTDIC0.5

Tgt Ion:173 Resp: 41084
 Ion Ratio Lower Upper
 173 100
 175 49.5 38.6 58.0
 171 54.7 42.0 63.0

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:45 PM



#50

4-Methyl-2-Pentanone

Concen: 0.514 ppbv

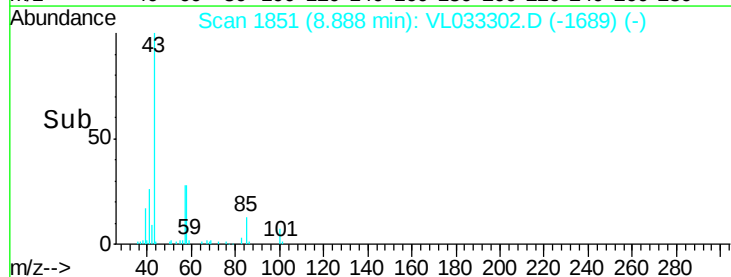
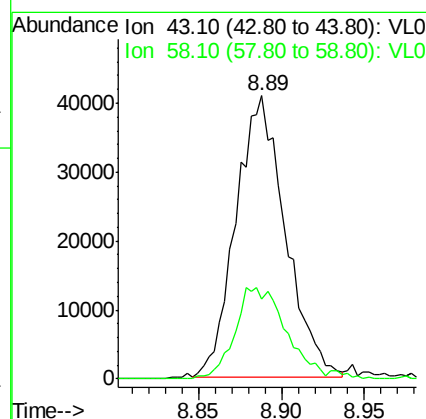
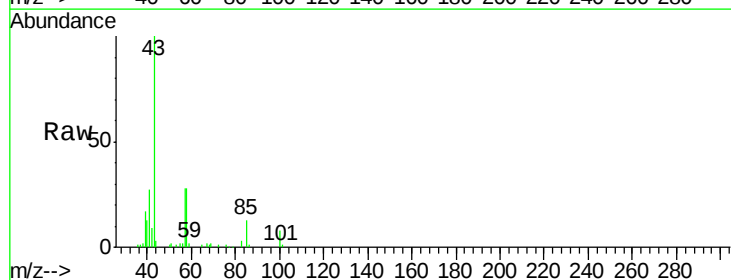
RT: 8.89 min Scan# 1851

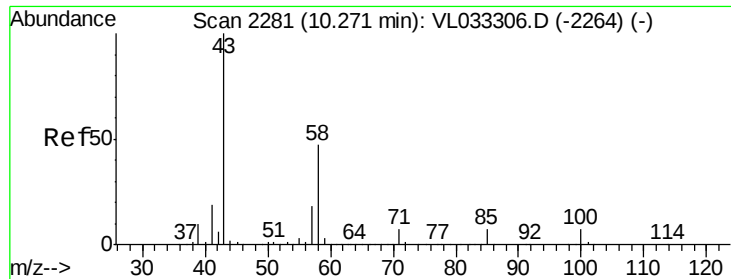
Delta R.T. 0.02 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion: 43 Resp: 85149
 Ion Ratio Lower Upper
 43 100
 58 34.1 28.2 42.2





#51

2-Hexanone

Concen: 0.497 ppbv m

RT: 10.30 min Scan# 2289

Delta R.T. 0.03 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 62851

Ion Ratio Lower Upper

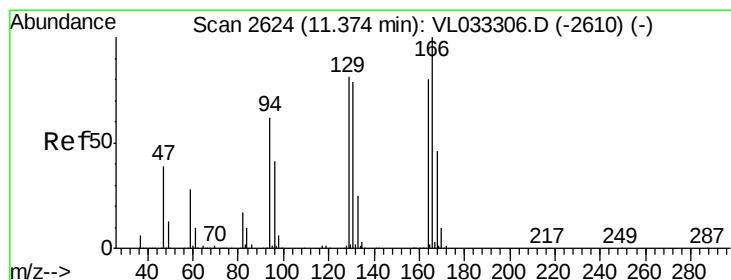
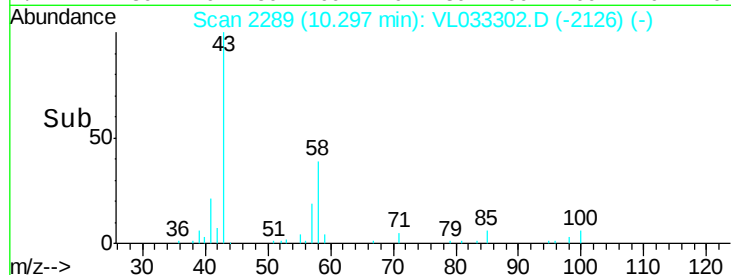
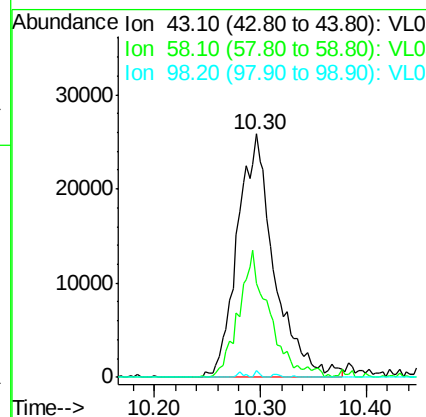
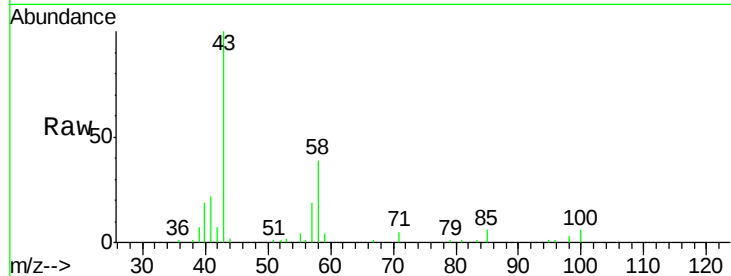
43 100

58 0.0 38.4 57.6#

98 0.0 0.2 0.2#

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#52

Tetrachloroethene

Concen: 0.591 ppbv m

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion: 164 Resp: 35036

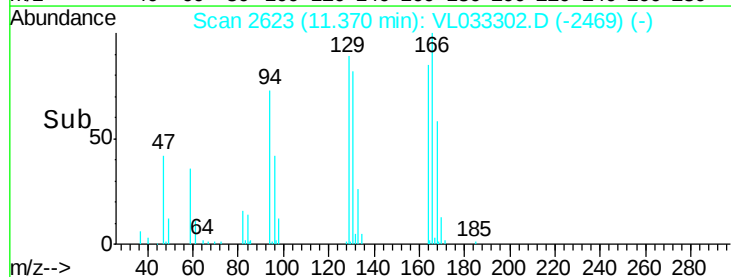
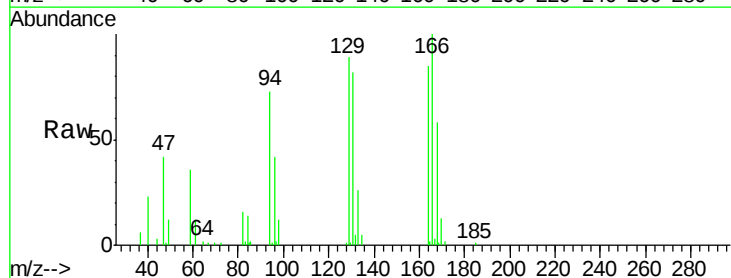
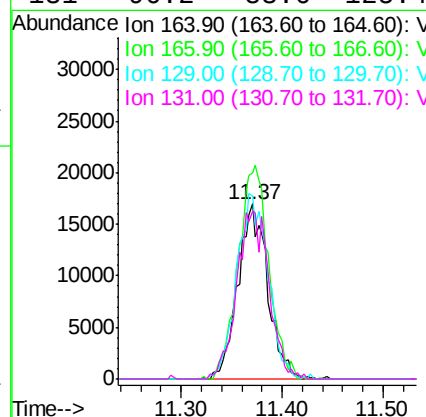
Ion Ratio Lower Upper

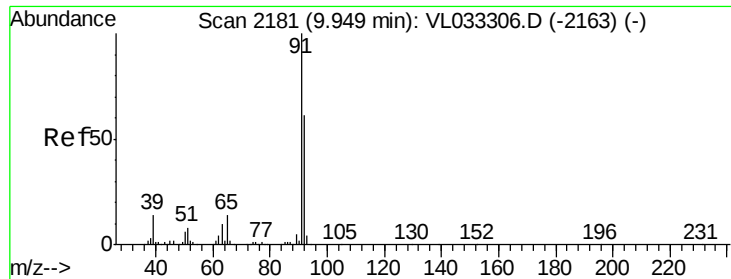
164 100

166 117.7 103.2 154.8

129 104.9 85.8 128.8

131 96.2 83.6 125.4





#53

Toluene

Concen: 0.495 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 91 Resp: 92288

Ion Ratio Lower Upper

91 100

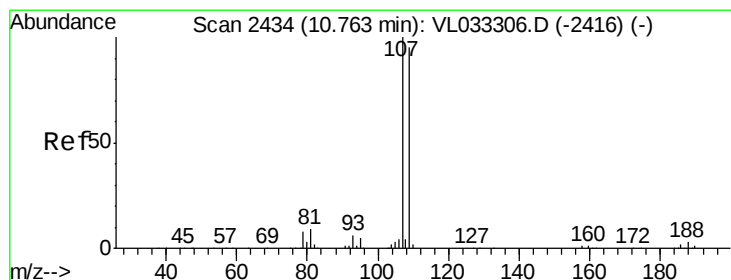
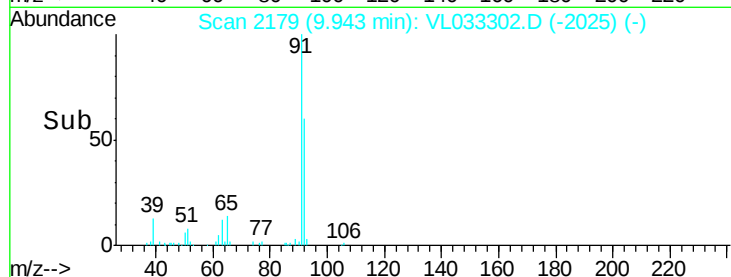
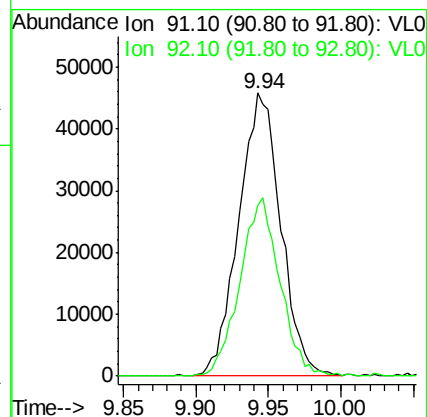
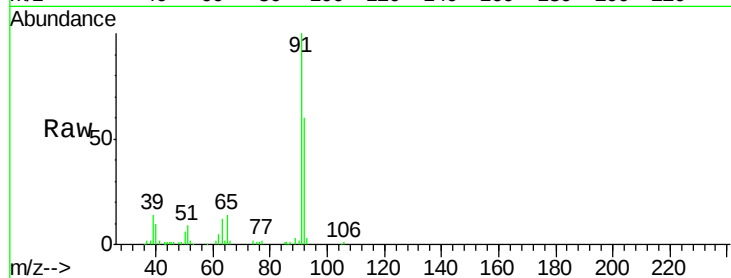
92 60.2 47.4 71.2

Manual Integrations

APPROVED

MMDadoda

3/15/2019 10:41:45 PM



#54

1,2-Dibromoethane

Concen: 0.582 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033302.D

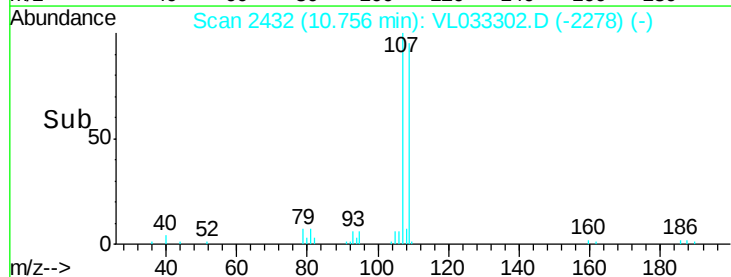
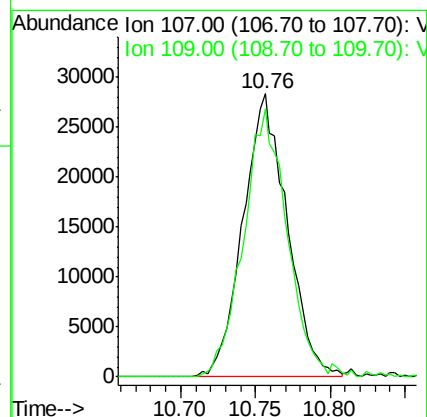
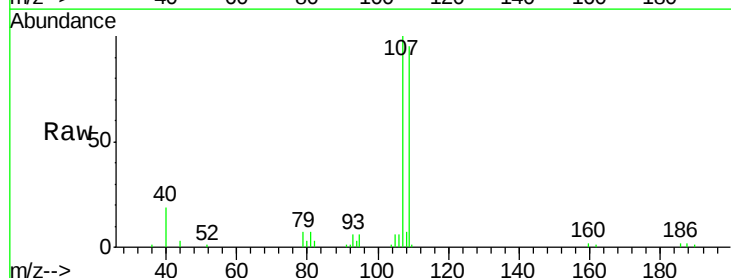
Acq: 13 Mar 2019 18:27

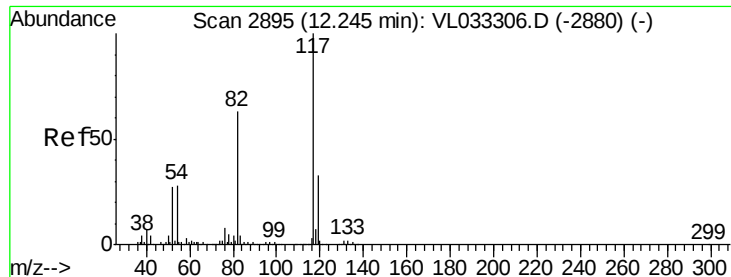
Tgt Ion: 107 Resp: 58185

Ion Ratio Lower Upper

107 100

109 95.4 74.3 111.5





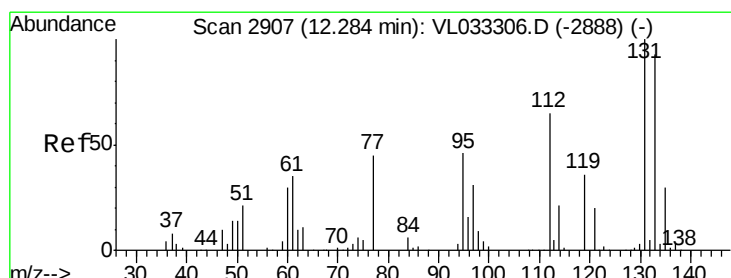
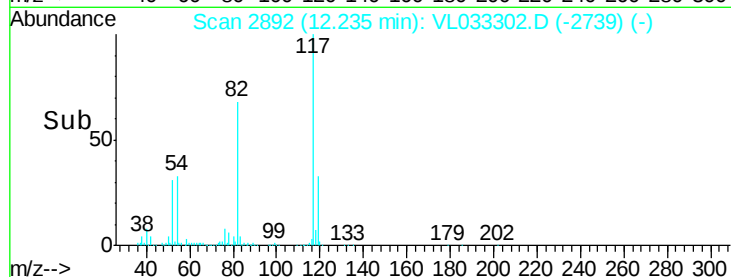
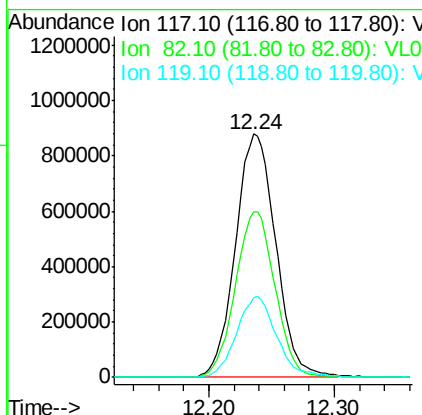
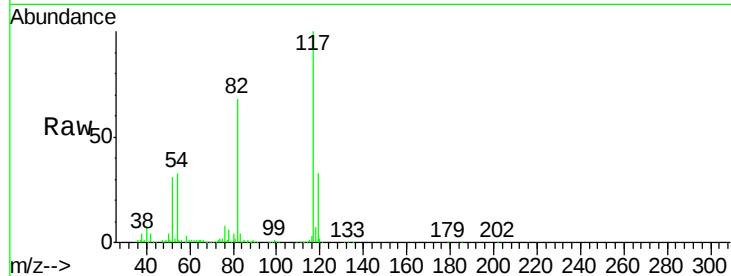
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:117 Resp: 1954820
Ion Ratio Lower Upper
117 100
82 67.3 51.3 76.9
119 33.3 27.0 40.4

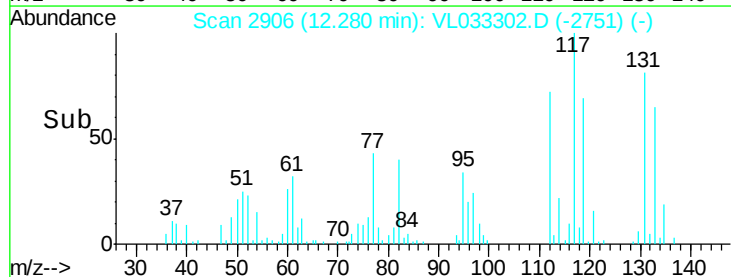
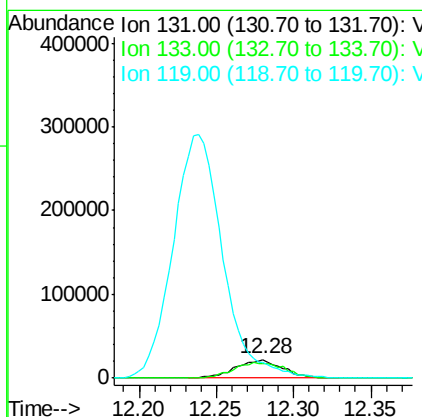
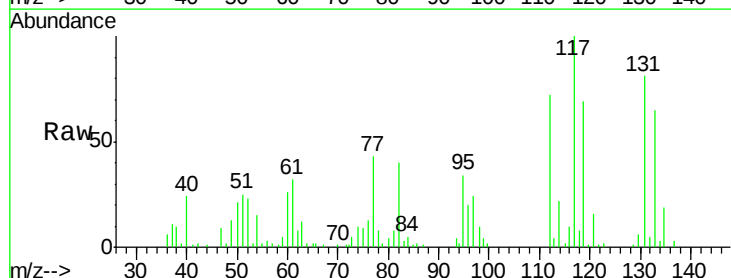
Manual Integrations
APPROVED

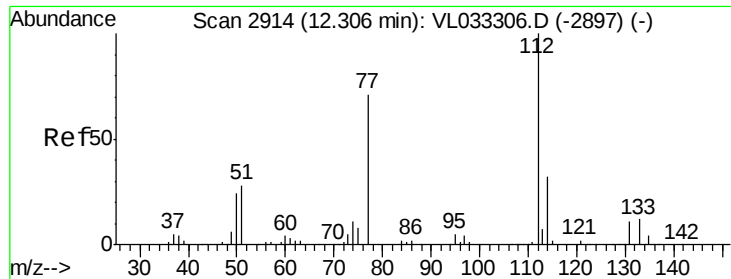
MMDadoda
3/15/2019 10:41:45 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.549 ppbv m
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion:131 Resp: 45647
Ion Ratio Lower Upper
131 100
133 94.0 75.3 112.9
119 0.0 45.0 67.4#





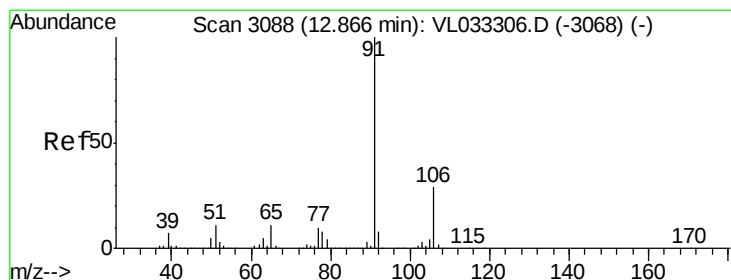
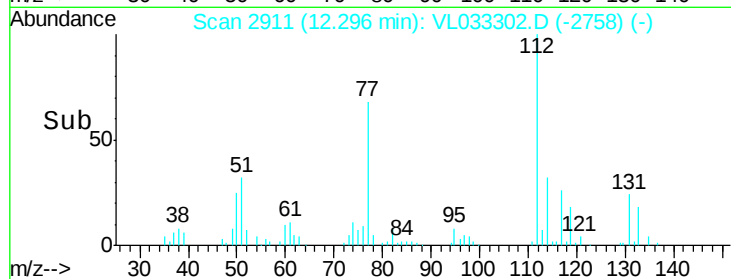
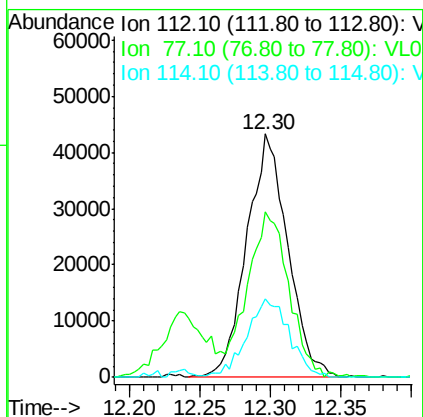
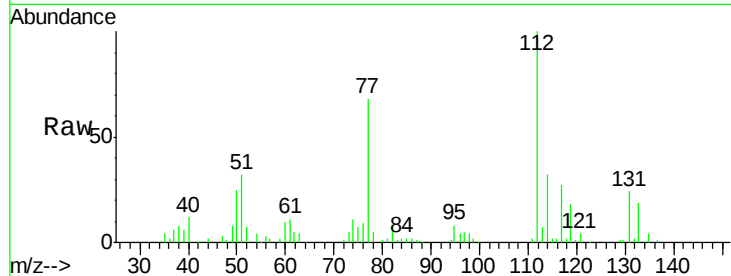
#57
Chlorobenzene
Concen: 0.598 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	88110		
77	67.6	54.7	82.1	
114	32.4	29.6	36.2	

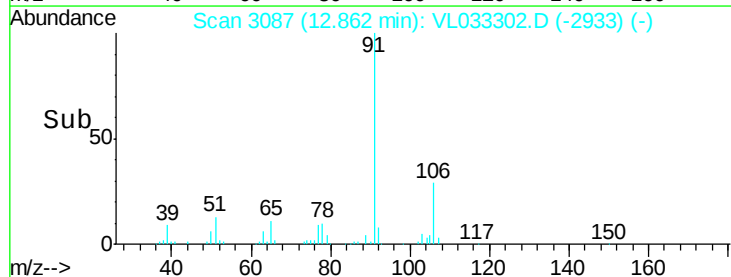
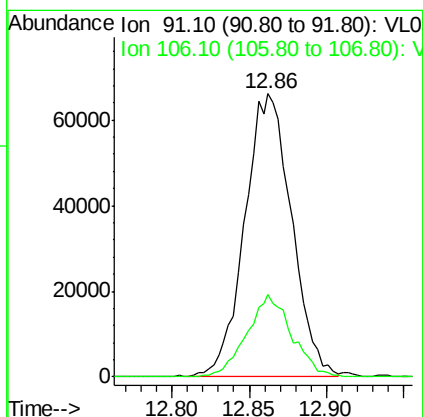
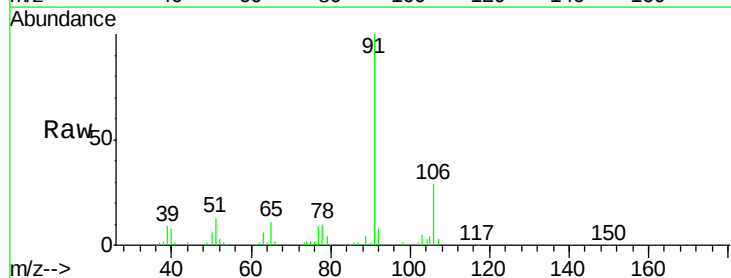
Manual Integrations
APPROVED

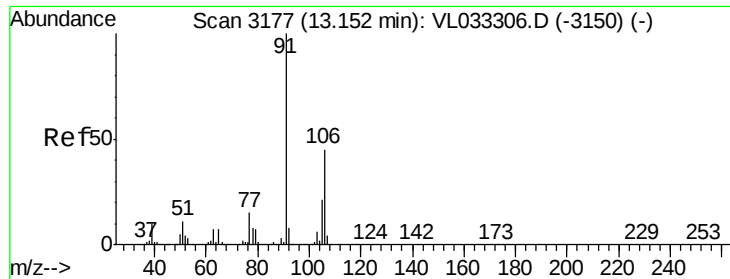
MMDadoda
3/15/2019 10:41:45 PM



#58
Ethyl Benzene
Concen: 0.518 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	139206		
106	28.9	23.8	35.6	





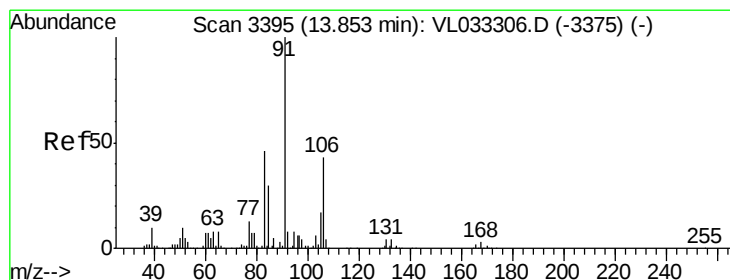
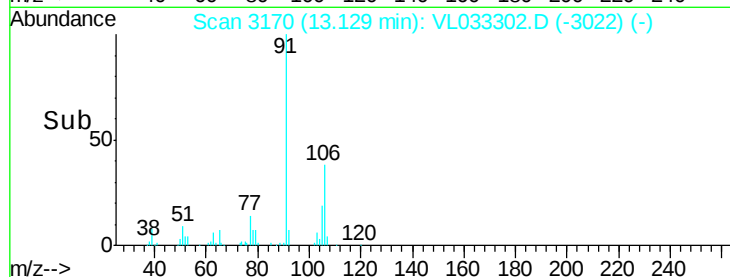
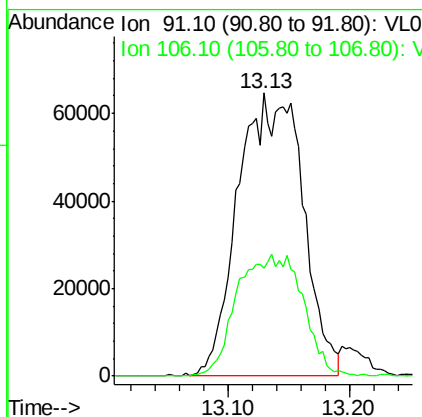
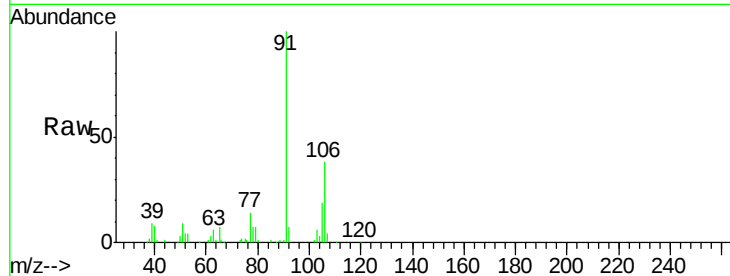
#59
m/p-Xylene
Concen: 1.063 ppbv m
RT: 13.13 min Scan# 3170
Delta R.T. -0.02 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 238860
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

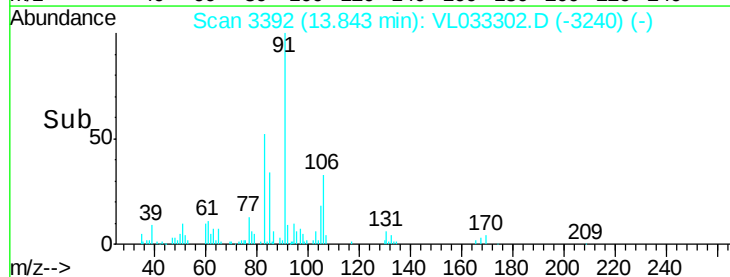
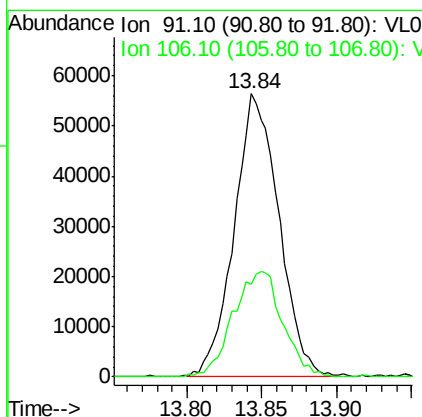
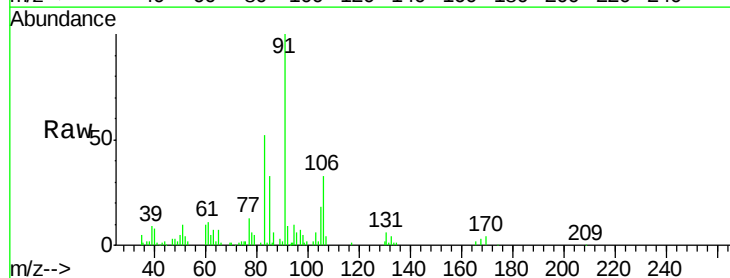
Manual Integrations
APPROVED

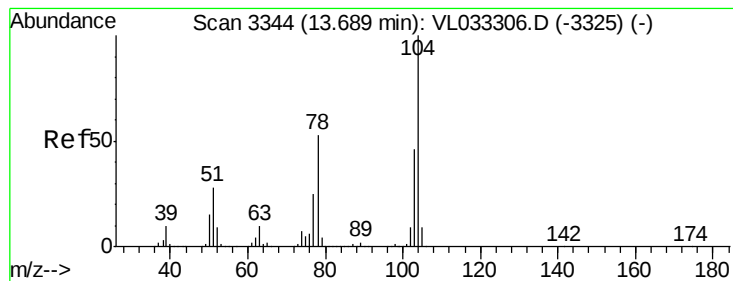
MMDadoda
3/15/2019 10:41:45 PM



#60
o-Xylene
Concen: 0.543 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 91 Resp: 117357
Ion Ratio Lower Upper
91 100
106 41.1 21.4 64.3





#61

Styrene

Concen: 0.472 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

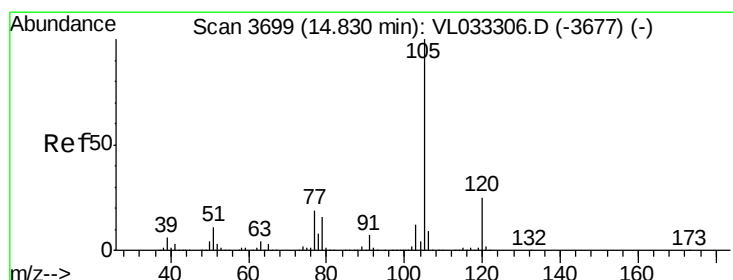
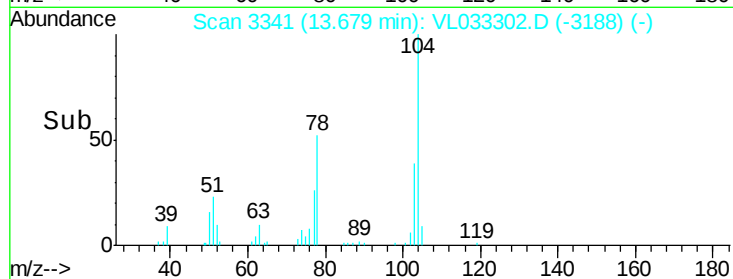
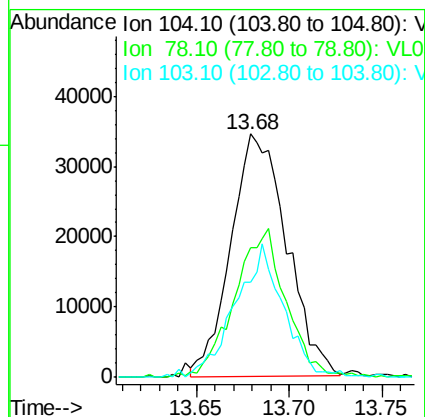
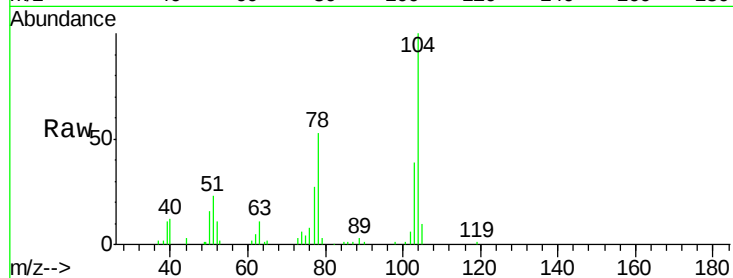
ClientSampleId :

VSTDIC0.5

Tgt Ion:	104	Resp:	72529
Ion Ratio	Lower	Upper	
104	100		
78	56.4	43.3	64.9
103	47.7	38.2	57.2

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#62

Isopropylbenzene

Concen: 0.552 ppbv

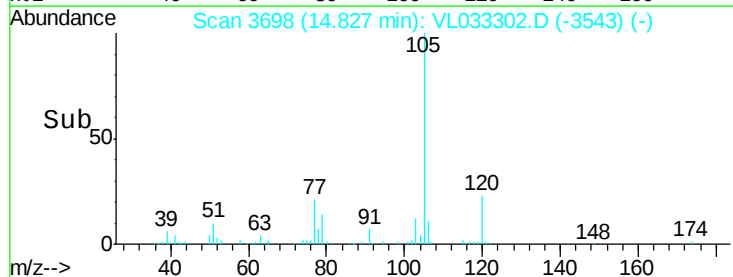
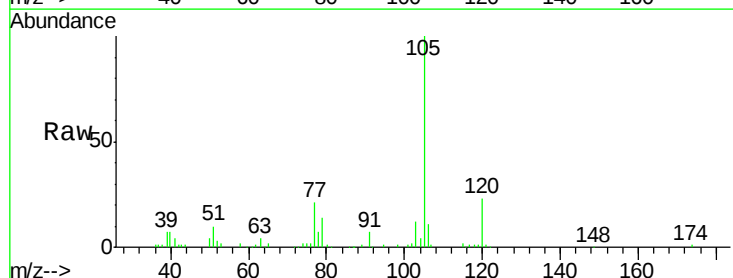
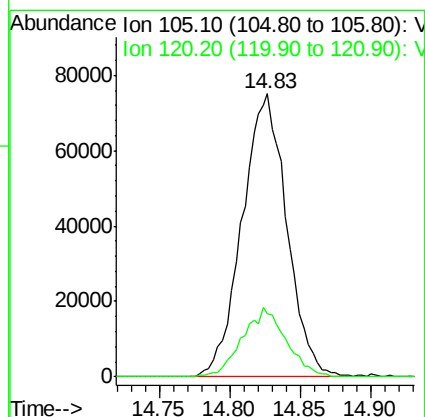
RT: 14.83 min Scan# 3698

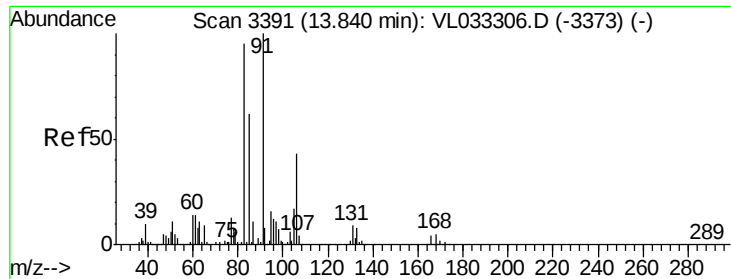
Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:	105	Resp:	166183
Ion Ratio	Lower	Upper	
105	100		
120	24.0	19.9	29.9





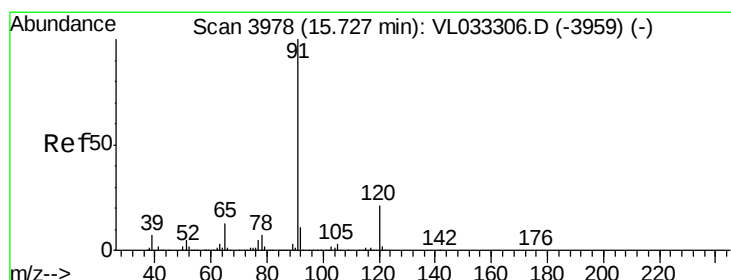
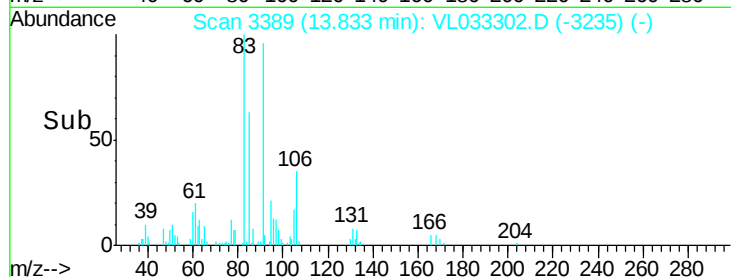
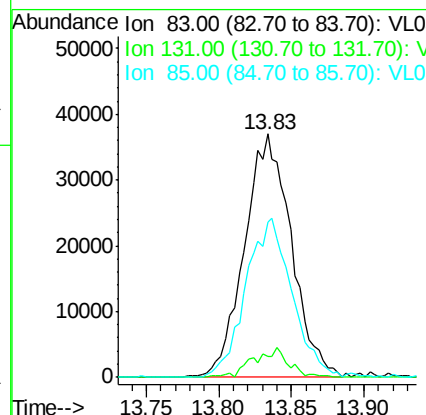
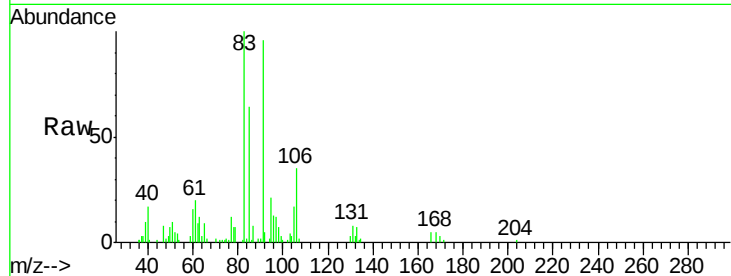
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.573 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.6	13.8
85	64.8	32.5	97.4

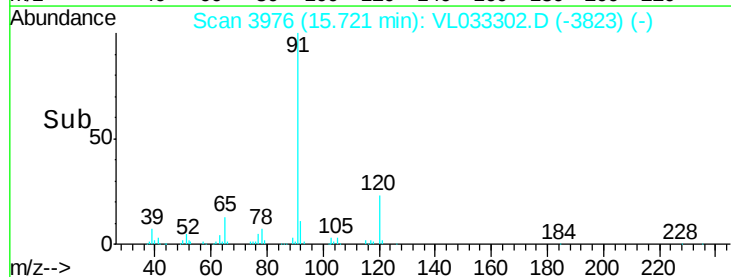
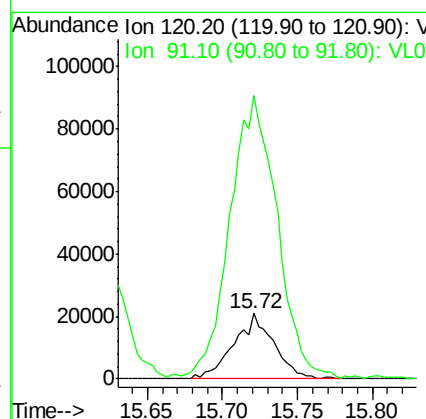
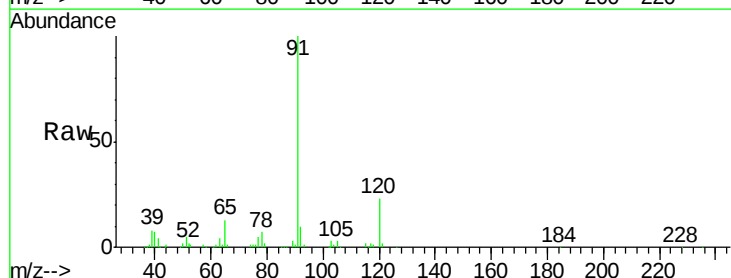
Manual Integrations
 APPROVED

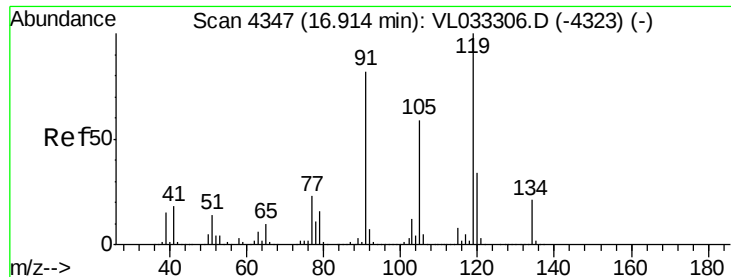
MMDadoda
 3/15/2019 10:41:45 PM



#64
 n-propylbenzene
 Concen: 0.523 ppbv m
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
120	100		
91	505.2	393.7	590.5





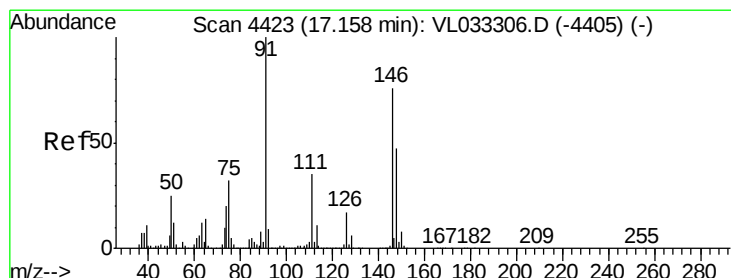
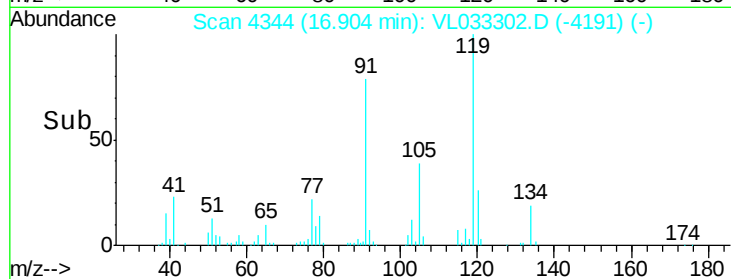
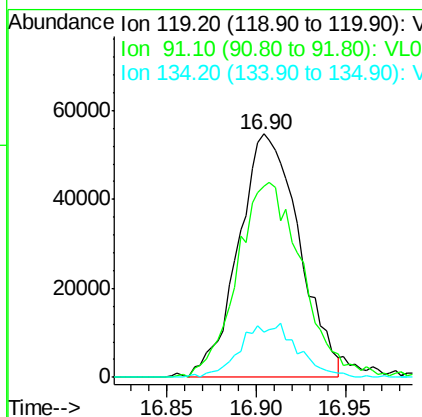
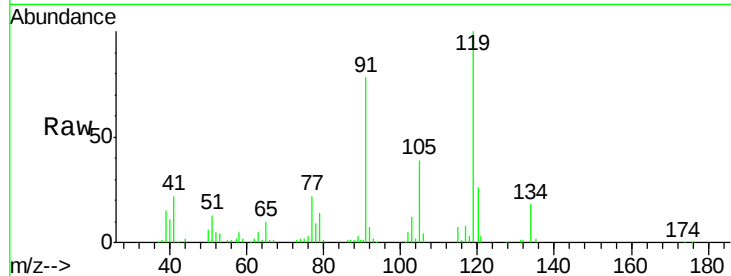
#65
 tert-Butylbenzene
 Concen: 0.510 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	129666		
91	86.7	66.4	99.6	
134	20.8	15.4	23.2	

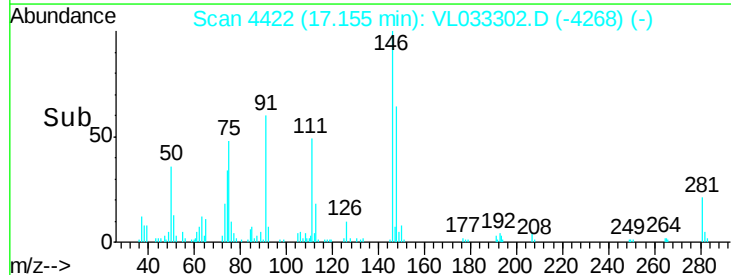
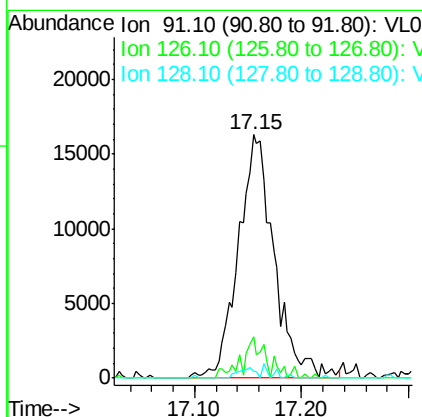
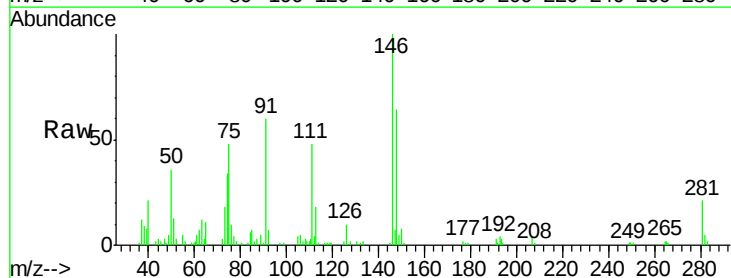
Manual Integrations
 APPROVED

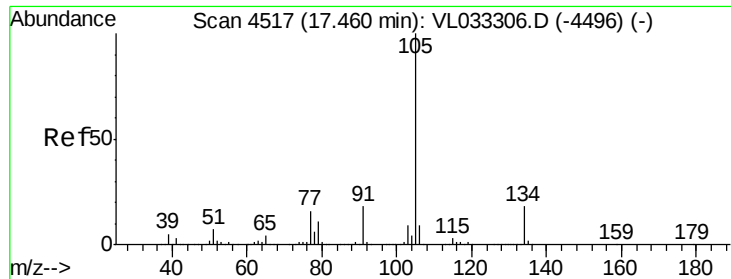
MMDadoda
 3/15/2019 10:41:45 PM



#66
 Benzyl Chloride
 Concen: 0.387 ppbv m
 RT: 17.15 min Scan# 4422
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	38077		
126	11.9	12.9	19.3#	
128	2.7	4.2	6.2#	





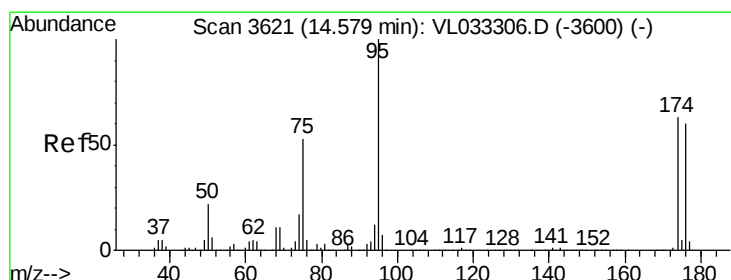
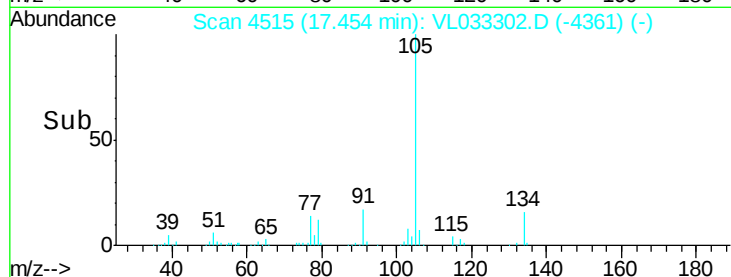
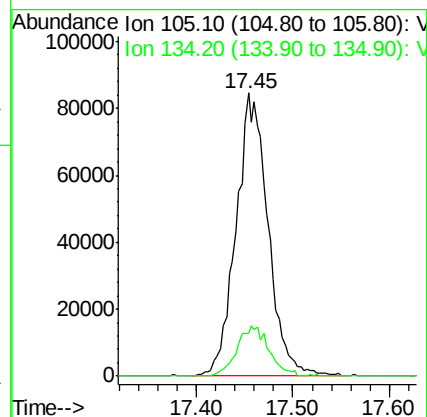
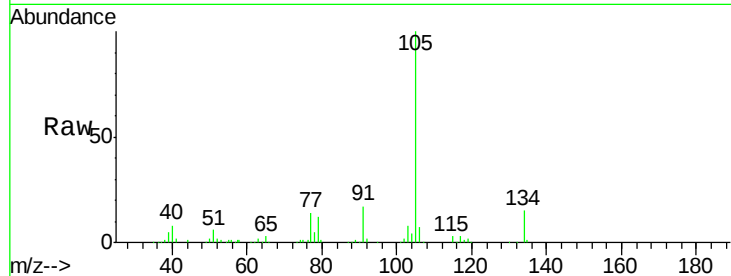
#67
 sec-Butylbenzene
 Concen: 0.538 ppbv m
 RT: 17.45 min Scan# 4515
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 105 Resp: 194411
 Ion Ratio Lower Upper
 105 100
 134 0.0 14.2 21.2#

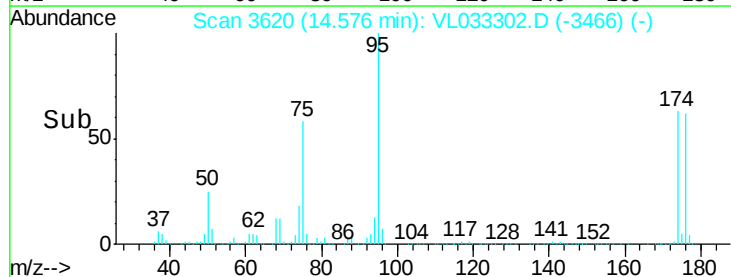
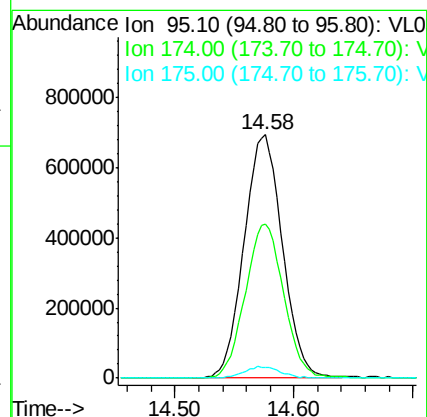
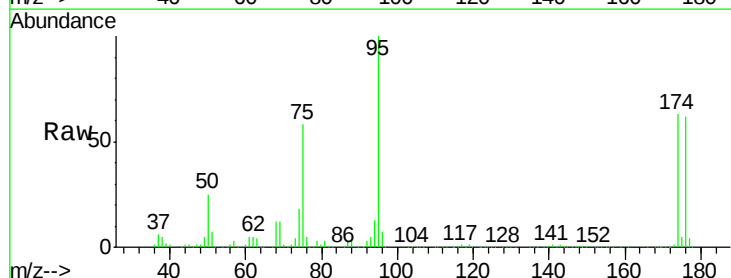
Manual Integrations
 APPROVED

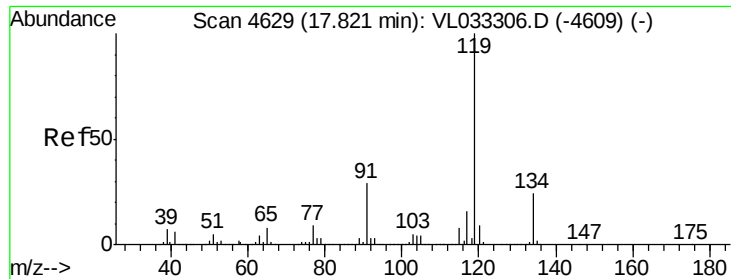
MMDadoda
 3/15/2019 10:41:45 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.251 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion: 95 Resp: 1547546
 Ion Ratio Lower Upper
 95 100
 174 64.1 51.9 77.9
 175 4.6 3.9 5.9





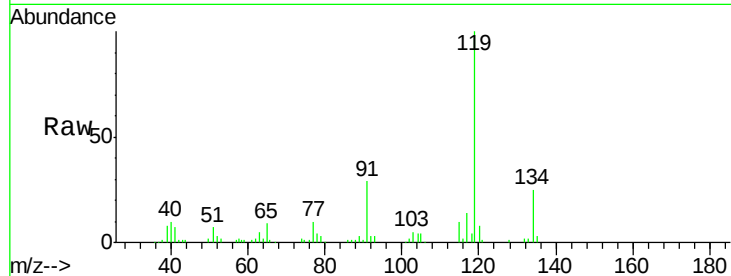
#69
p-Isopropyltoluene
Concen: 0.503 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

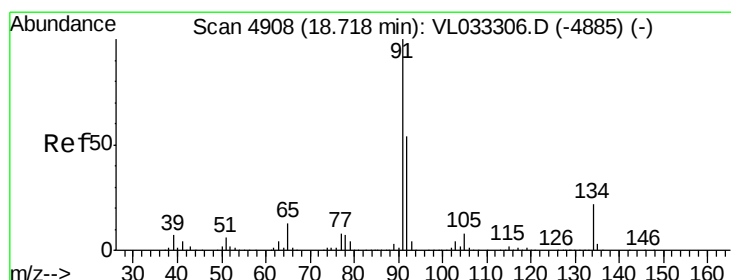
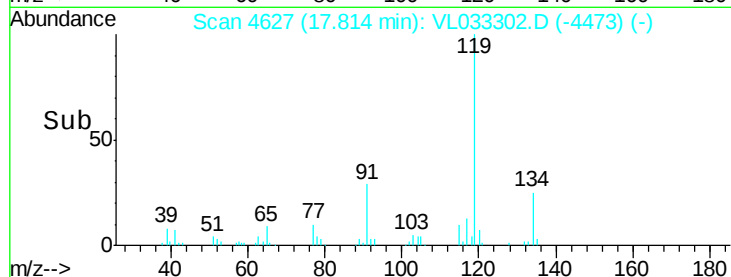
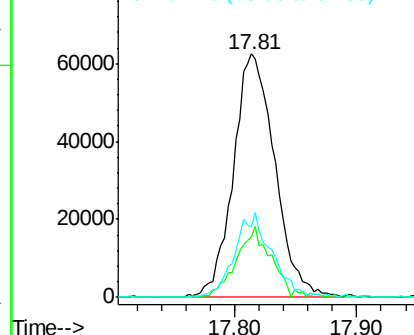
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.7	19.8	29.6
91	31.8	23.8	35.8

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM

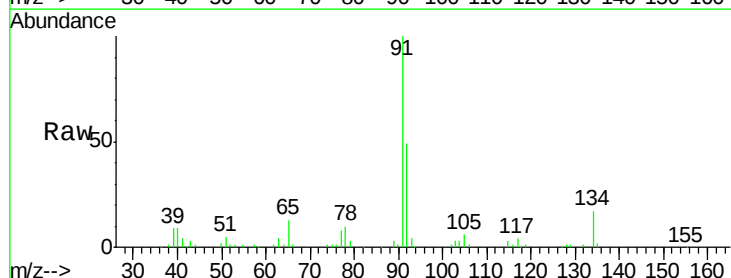


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

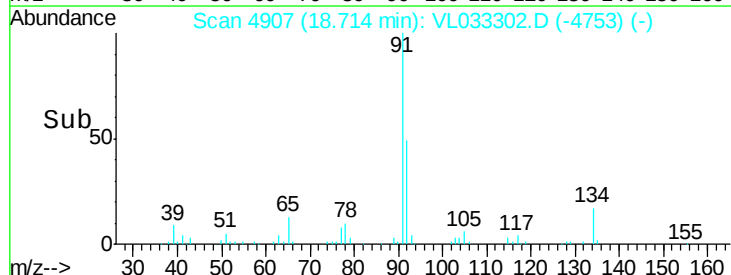
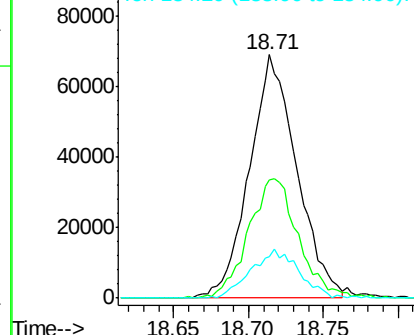


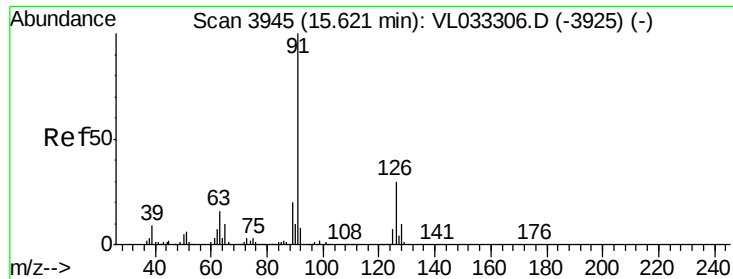
#70
n-Butylbenzene
Concen: 0.481 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.2	42.6	63.8
134	20.4	17.4	26.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





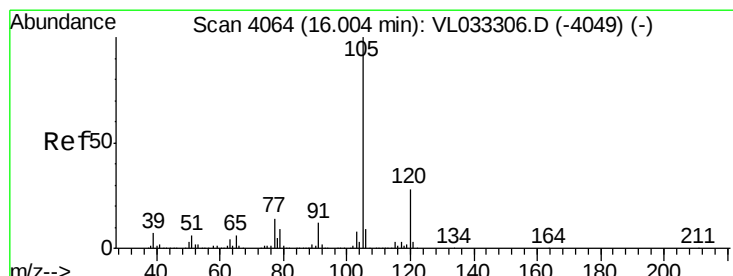
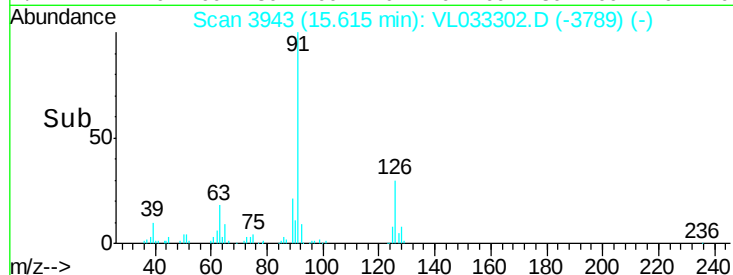
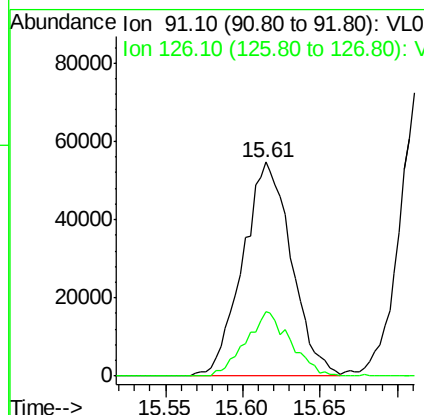
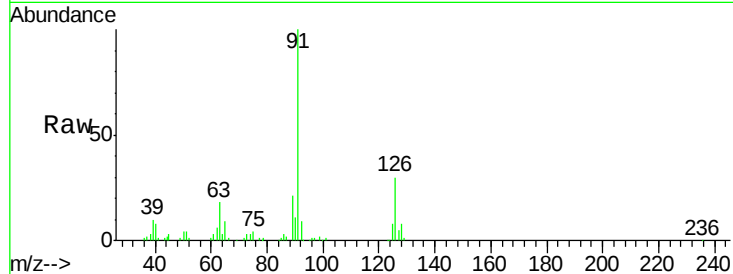
#71
2-Chlorotoluene
Concen: 0.530 ppbv
RT: 15.61 min Scan# 3943
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 120226
Ion Ratio Lower Upper
91 100
126 27.7 11.8 47.0

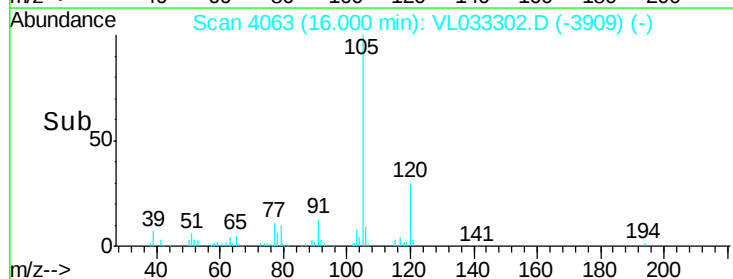
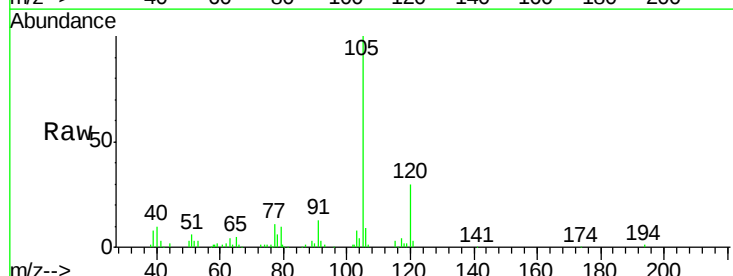
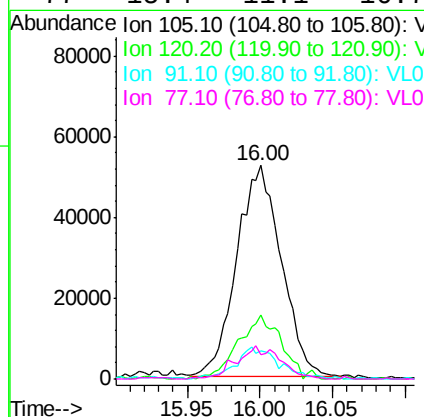
Manual Integrations
APPROVED

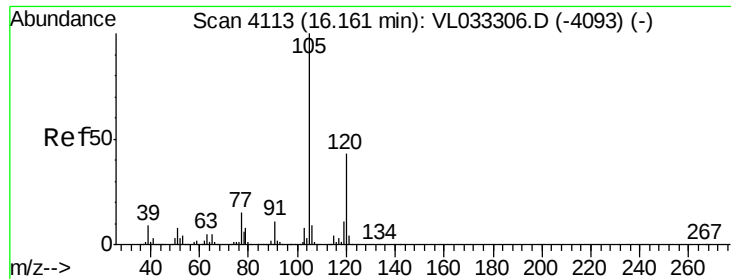
MMDadoda
3/15/2019 10:41:45 PM



#72
4-Ethyltoluene
Concen: 0.482 ppbv
RT: 16.00 min Scan# 4063
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 105 Resp: 112392
Ion Ratio Lower Upper
105 100
120 29.5 22.7 34.1
91 14.9 10.3 15.5
77 15.4 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.488 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.5

Tgt Ion:105 Resp: 107219

Ion Ratio Lower Upper

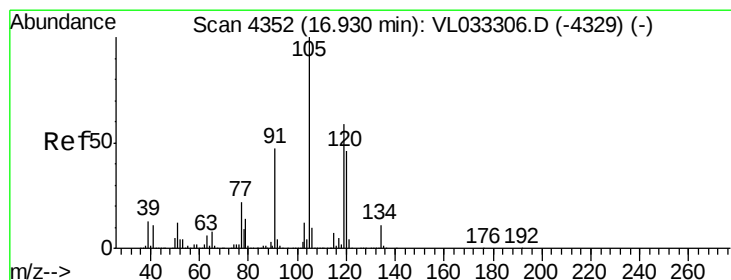
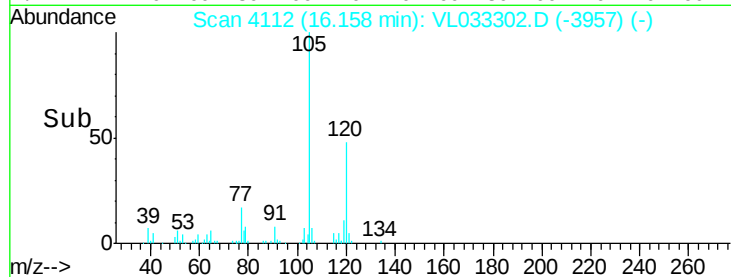
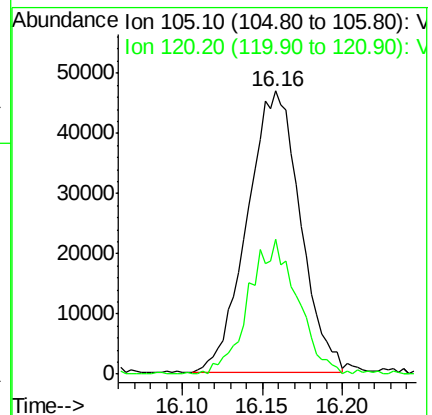
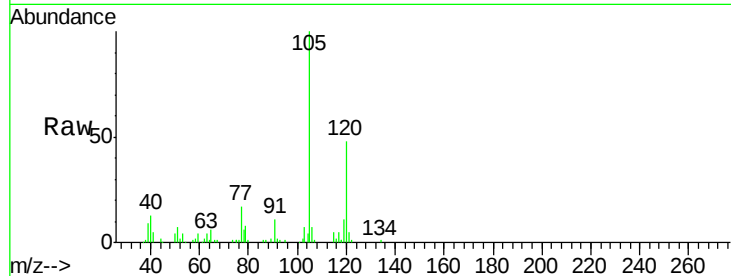
105 100

120 47.9 34.6 52.0

Manual Integrations
APPROVED

MMDadoda

3/15/2019 10:41:45 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.493 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:105 Resp: 110402

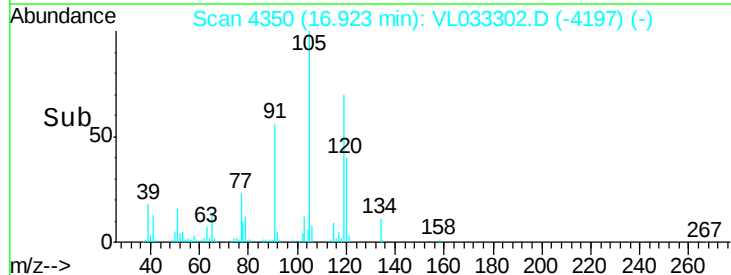
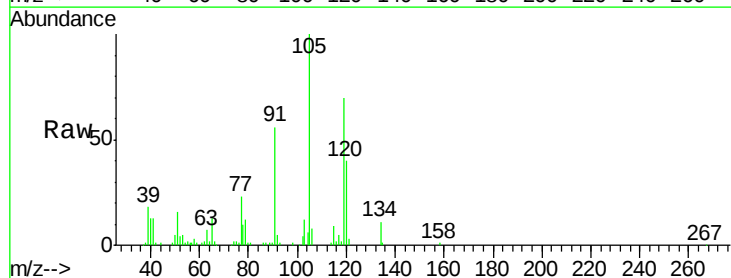
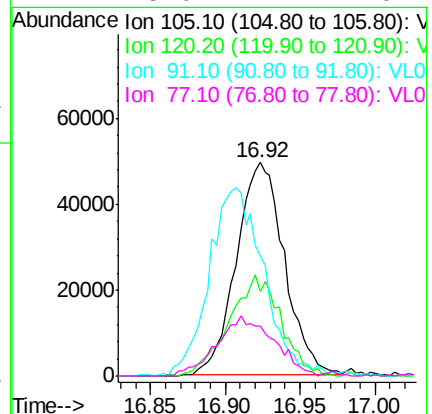
Ion Ratio Lower Upper

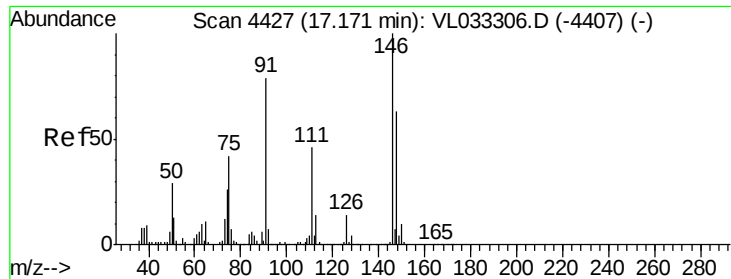
105 100

120 42.9 35.2 52.8

91 54.7 34.0 51.0#

77 23.0 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 0.565 ppbv m

RT: 17.16 min Scan# 4425

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

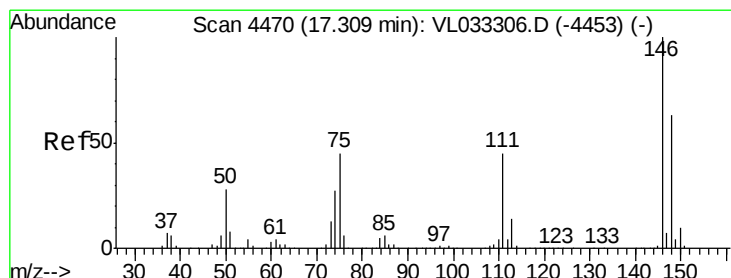
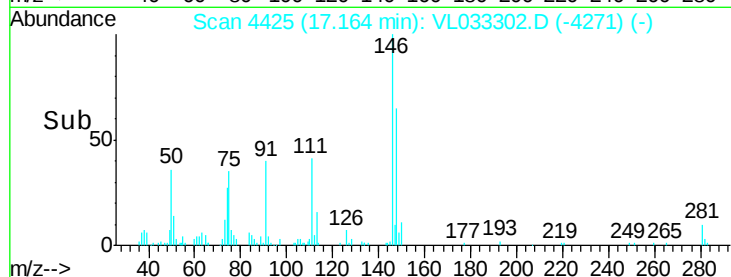
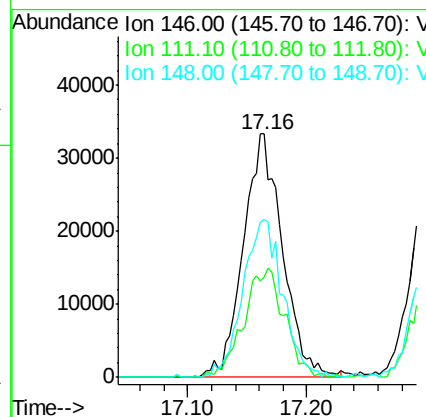
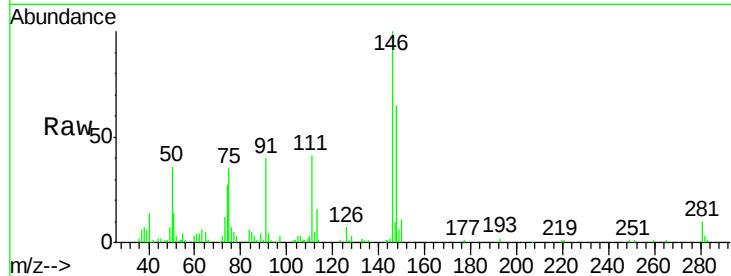
ClientSampleId :

VSTDIC0.5

Tgt Ion:146 Resp: 75776
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.9 68.7#
 148 66.4 32.4 97.0

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:45 PM



#76

1,4-Dichlorobenzene

Concen: 0.547 ppbv m

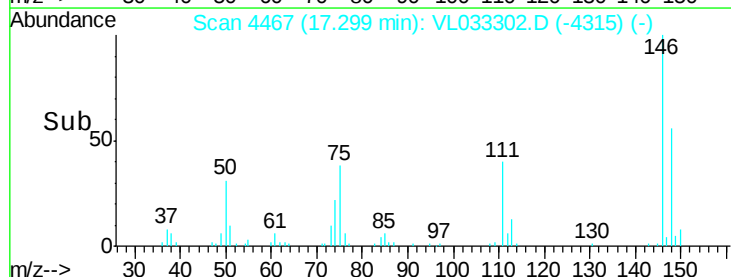
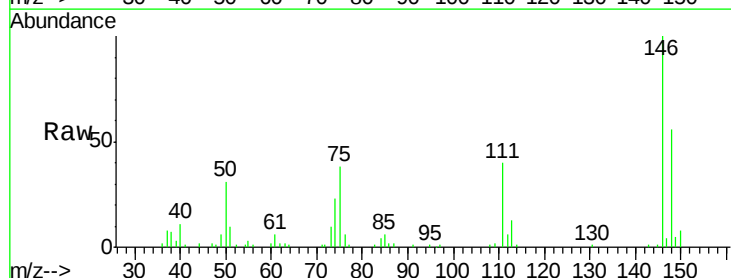
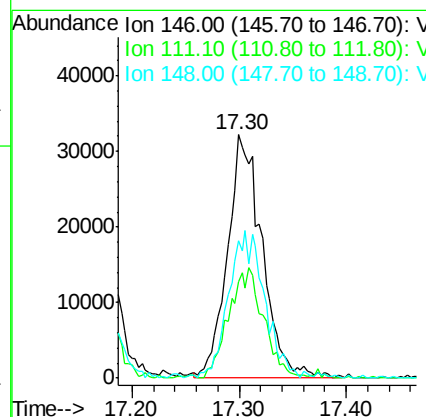
RT: 17.30 min Scan# 4467

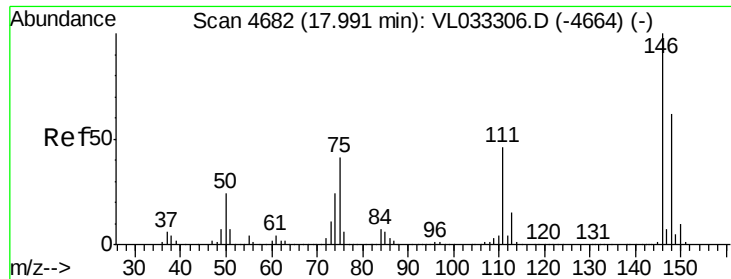
Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:146 Resp: 72549
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.9 65.5#
 148 0.0 31.8 95.4#





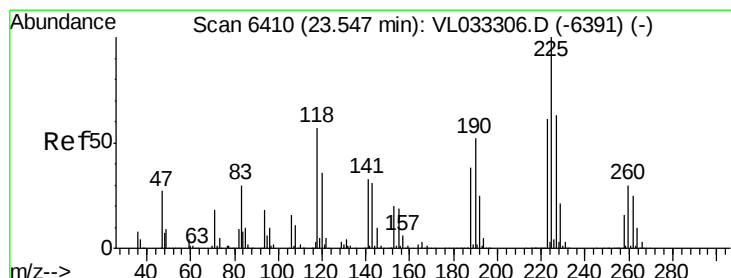
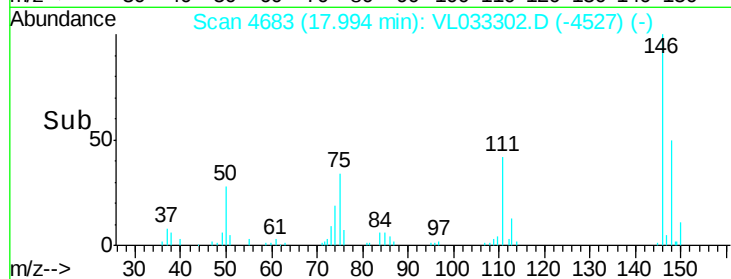
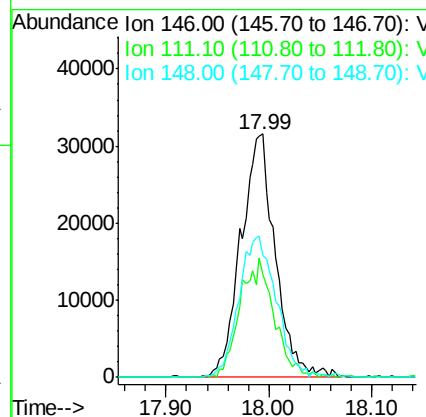
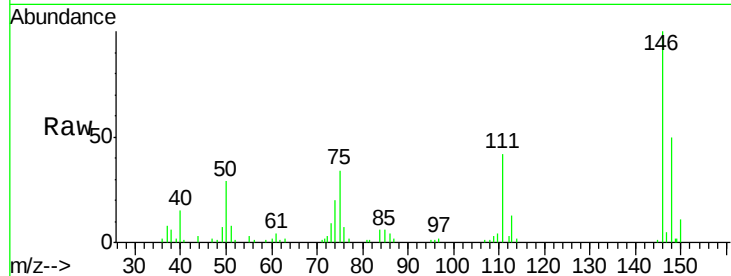
#77
 1,2-Dichlorobenzene
 Concen: 0.548 ppbv m
 RT: 17.99 min Scan# 4683
 Delta R.T. 0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.1	23.2	69.6
148	63.6	32.0	96.0

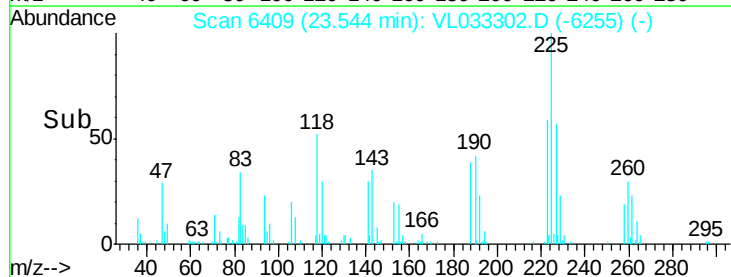
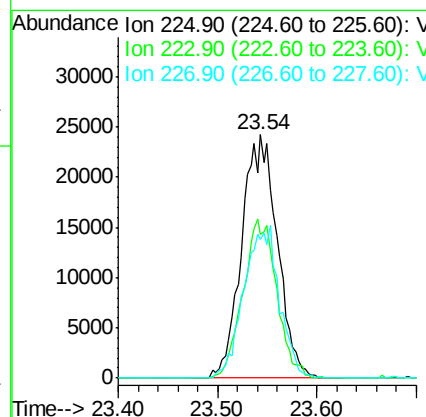
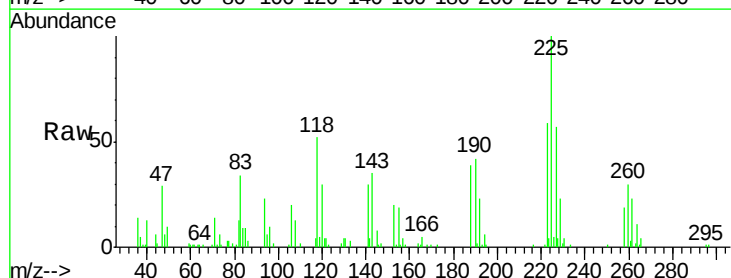
Manual Integrations
 APPROVED

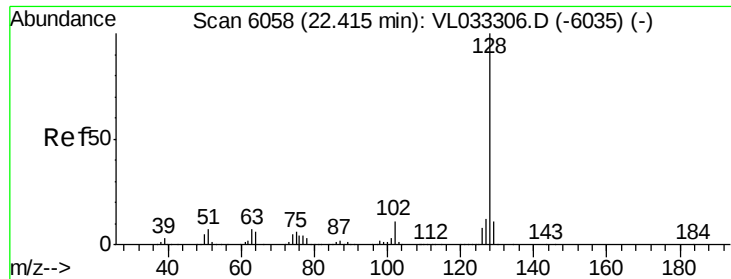
MMDadoda
 3/15/2019 10:41:45 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.538 ppbv m
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.3	75.5#
227	0.0	51.2	76.8#





#79

Naphthalene

Concen: 0.264 ppbv m

RT: 22.41 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

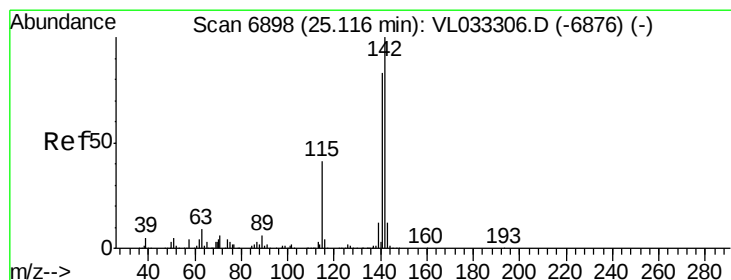
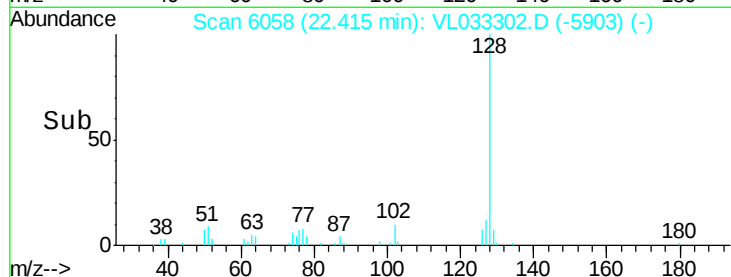
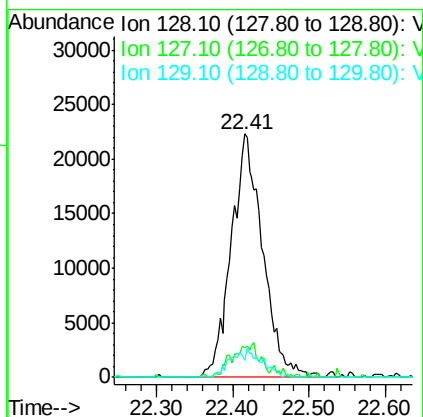
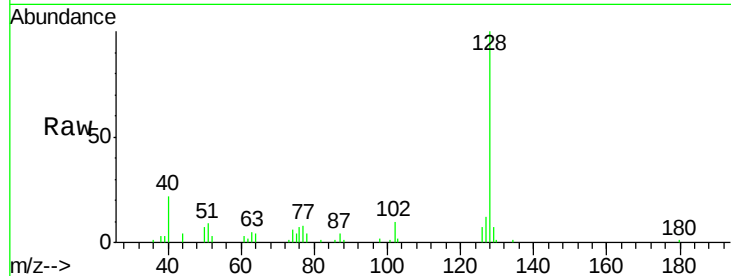
ClientSampleId :

VSTDIC0.5

Tgt Ion:	128	Resp:	63950
Ion Ratio		Lower	Upper
128	100		
127	12.4	10.8	16.2
129	7.0	8.9	13.3#

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:41:45 PM



#80

Naphthalene, 2-methyl-

Concen: 0.033 ppbv m

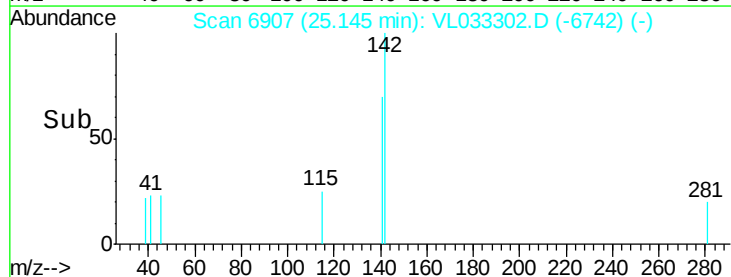
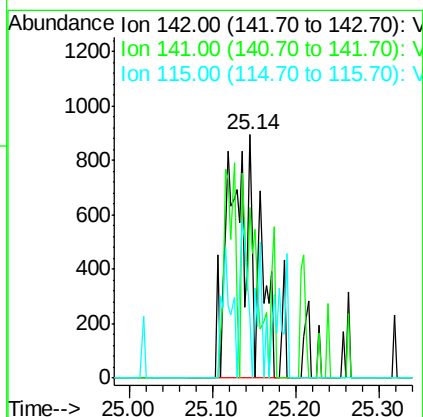
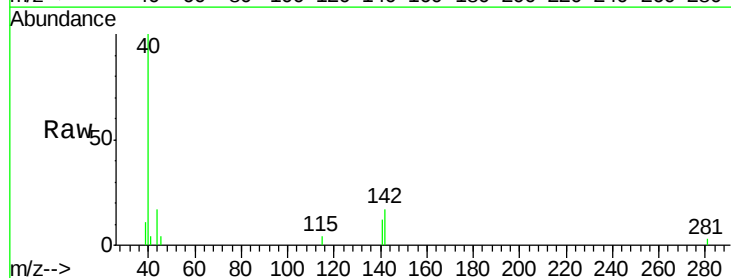
RT: 25.14 min Scan# 6907

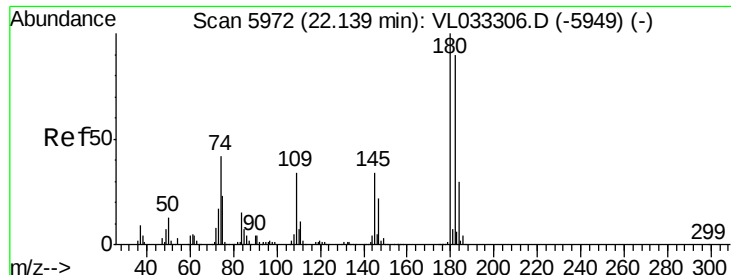
Delta R.T. 0.03 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:	142	Resp:	2210
Ion Ratio		Lower	Upper
142	100		
141	0.0	67.2	100.8#
115	17.5	33.6	50.4#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.359 ppbv m
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.4	114.6#
184	0.0	24.6	36.8#

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:45 PM

