

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033436.D
 Acq On : 25 Mar 2019 11:47
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:43 AM

Quant Time: Mar 25 12:21:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	789926	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1830264	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1850609	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1475809	10.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	116712	0.840	ppbv	98
3) Chlorodifluoromethane	3.01	51	92362	1.019	ppbv	99
4) Chloromethane	3.17	50	48022	0.978	ppbv	95
5) Vinyl Chloride	3.29	62	47220	0.932	ppbv	96
6) Bromomethane	3.51	94	30997	1.030	ppbv	98
7) Chloroethane	3.60	64	16693	0.943	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	127181	1.075	ppbv	99
9) Propene	3.03	41	37538	0.927	ppbv	99
10) Heptane	8.25	43	101400	1.010	ppbv	100
11) Trichlorofluoromethane	4.00	101	145489	1.052	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	97406	1.061	ppbv	100
13) Ethanol	3.65	45	9947	0.516	ppbv	75
14) Bromoethene	3.79	108	36841	0.963	ppbv	100
15) Acetone	3.90	43	99581	0.811	ppbv	100
16) 1,3-Butadiene	3.36	39	35031	0.878	ppbv	96
17) tert-Butyl alcohol	4.37	59	18743	1.085	ppbv	99
18) 1,1-Dichloroethene	4.35	96	40052	0.954	ppbv	87
19) Isopropyl Alcohol	4.03	45	68258	1.169	ppbv #	97
20) Methylene Chloride	4.41	84	44217	1.104	ppbv #	85
21) Allyl Chloride	4.47	41	58340	0.979	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	43441	1.068	ppbv	99
23) Vinyl Acetate	5.15	43	133789	0.942	ppbv #	98
24) 1,1-Dichloroethane	5.09	63	105351	1.027	ppbv	100
25) Ethyl Acetate	5.77	43	179519	1.006	ppbv	100
26) Hexane	5.78	57	79934	1.002	ppbv	97
27) Carbon Disulfide	4.62	76	82927	0.903	ppbv #	92
28) Methyl tert-Butyl Ether	5.12	73	109430	0.923	ppbv	96
29) Chloroform	5.84	83	136577	1.045	ppbv	91
30) Cyclohexane	7.25	84	59813	0.935	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	74211	0.930	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	129496	1.009	ppbv	99
34) 2-Butanone	5.33	43	115471	0.961	ppbv	96
35) Carbon Tetrachloride	7.13	117	131205	1.017	ppbv	98
36) Benzene	7.00	78	154867	0.945	ppbv	97
37) 1,2-Dichloroethane	6.41	62	108559	1.048	ppbv	98
38) Trichloroethene	7.96	130	61905	0.999	ppbv	91
39) 1,2-Dichloropropane	7.73	63	59163	0.964	ppbv	93
40) 1,4-Dioxane	7.98	88	20529	0.950	ppbv	96
41) Tetrahydrofuran	6.16	42	58888	0.918	ppbv	98
42) Bromodichloromethane	7.91	83	135161	0.973	ppbv	95
43) Methyl Methacrylate	8.14	69	60812	0.953	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033436.D
 Acq On : 25 Mar 2019 11:47
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

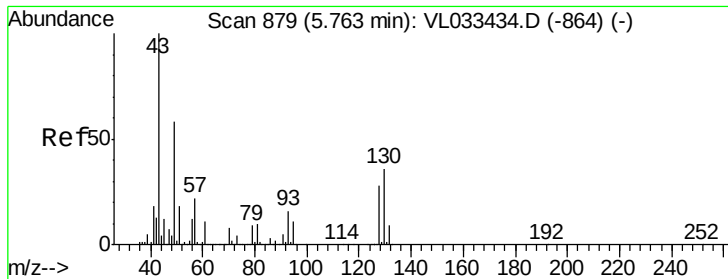
Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:43 AM

Quant Time: Mar 25 12:21:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	269194	0.992	ppbv	97
45) t-1,3-Dichloropropene	9.42	75	63897	0.811	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	80043	0.863	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	68808	1.015	ppbv	99
48) Dibromochloromethane	10.45	129	108805m	0.957	ppbv	
49) Bromoform	13.20	173	93607	0.868	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	162234	0.956	ppbv	96
51) 2-Hexanone	10.28	43	108431	0.828	ppbv #	99
52) Tetrachloroethene	11.37	164	59940	0.878	ppbv	94
53) Toluene	9.95	91	170944	0.918	ppbv	98
54) 1,2-Dibromoethane	10.76	107	102969m	0.899	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.27	131	86897	1.050	ppbv #	1
57) Chlorobenzene	12.30	112	147703	1.008	ppbv	95
58) Ethyl Benzene	12.86	91	245426	0.937	ppbv	96
59) m/p-Xylene	13.14	91	436018m	1.938	ppbv	
60) o-Xylene	13.85	91	219284	0.999	ppbv	98
61) Styrene	13.69	104	142017	0.924	ppbv	99
62) Isopropylbenzene	14.83	105	307115	1.006	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	164617	1.038	ppbv	99
64) n-propylbenzene	15.72	120	76393	0.989	ppbv	92
65) tert-Butylbenzene	16.91	119	272798	0.993	ppbv	96
66) Benzyl Chloride	17.16	91	102628	0.904	ppbv	97
67) sec-Butylbenzene	17.46	105	390958	1.004	ppbv	99
69) p-Isopropyltoluene	17.81	119	306266	0.963	ppbv	98
70) n-Butylbenzene	18.71	91	330378	0.974	ppbv	97
71) 2-Chlorotoluene	15.62	91	230391m	0.970	ppbv	
72) 4-Ethyltoluene	16.00	105	235674	0.946	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	236472	0.974	ppbv	89
74) 1,2,4-Trimethylbenzene	16.92	105	253724	0.987	ppbv	91
75) 1,3-Dichlorobenzene	17.16	146	158901	1.048	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	153605m	1.047	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	142103	0.990	ppbv	98
78) Hexachloro-1,3-Butadiene	23.54	225	96656m	1.123	ppbv	
79) Naphthalene	22.42	128	185384	0.748	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	35764	0.304	ppbv	96
81) 1,2,4-Trichlorobenzene	22.14	180	109387m	0.866	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

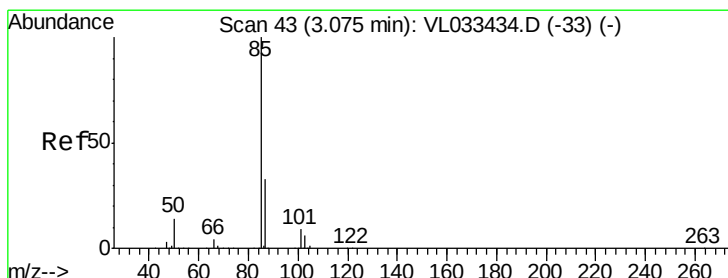
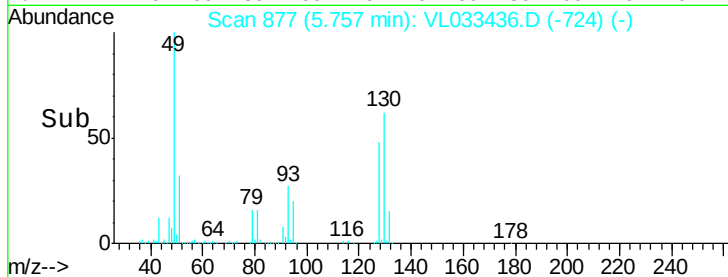
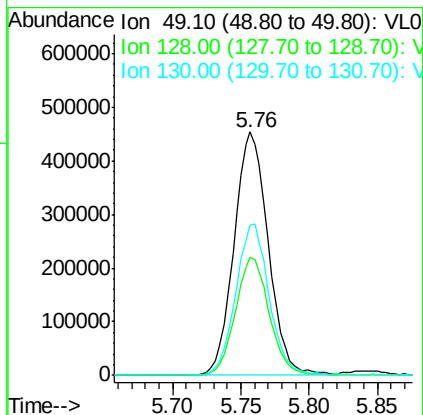
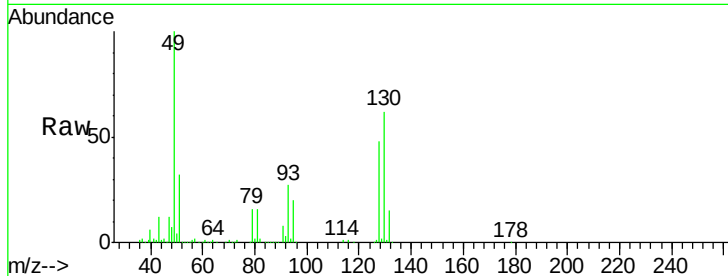
ClientSampleId :

VSTDIC001

Tot Ion:	49	Resp:	789926
Ion	Ratio	Lower	Upper
49	100		
128	48.1	23.5	70.6
130	61.4	30.1	90.3

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#2

Dichlorodifluoromethane

Concen: 0.840 ppbv

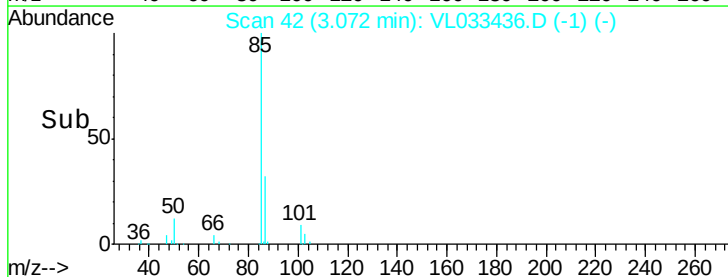
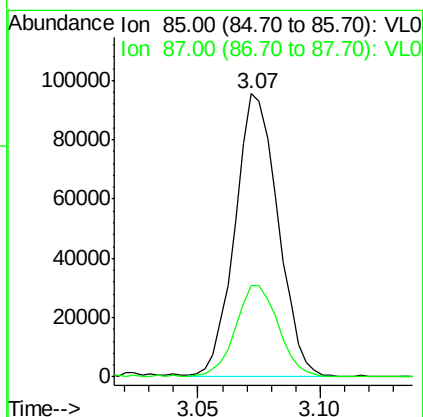
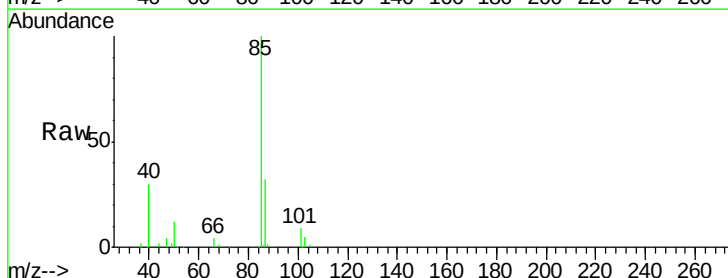
RT: 3.07 min Scan# 42

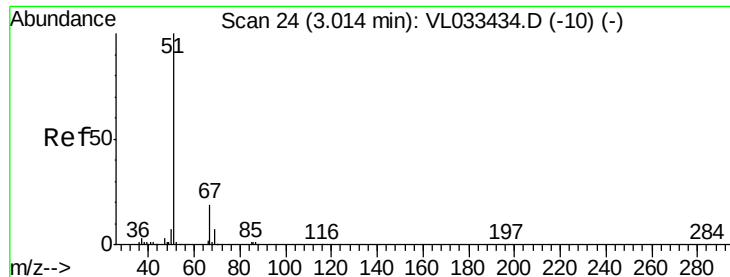
Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion:	85	Resp:	116712
Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.9	40.3





#3

Chlorodifluoromethane

Concen: 1.019 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 92362

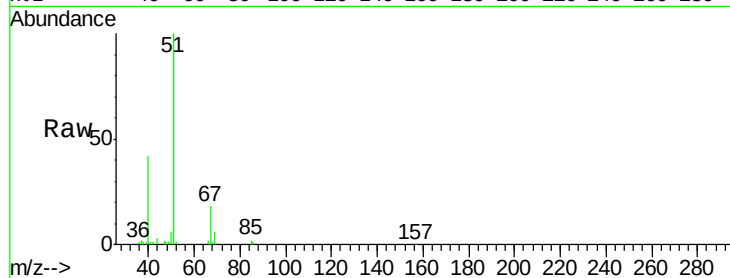
Ion Ratio Lower Upper

51 100

67 18.3 14.9 22.3

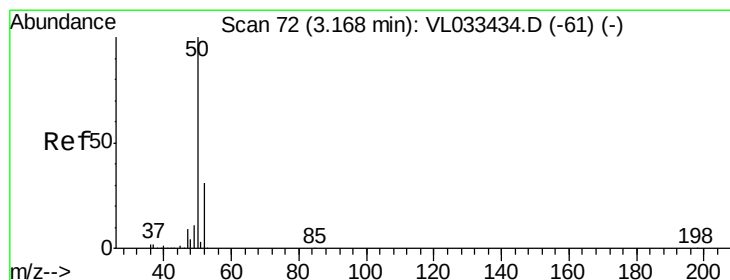
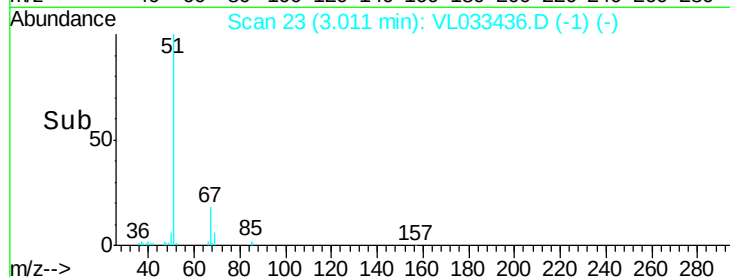
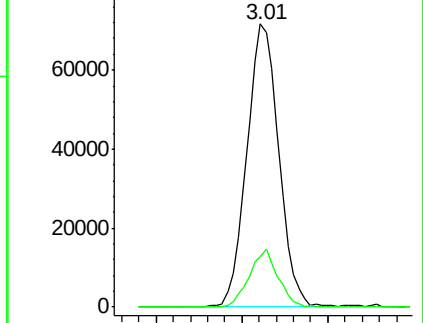
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.978 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033436.D

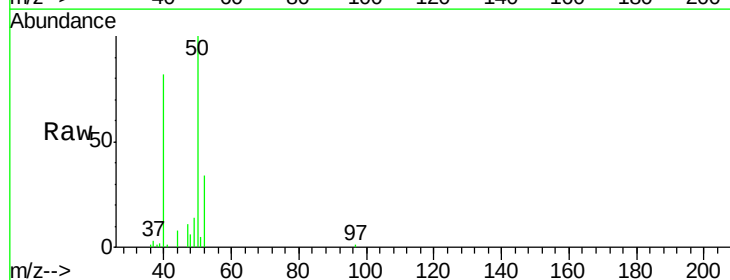
Acq: 25 Mar 2019 11:47

Tgt Ion: 50 Resp: 48022

Ion Ratio Lower Upper

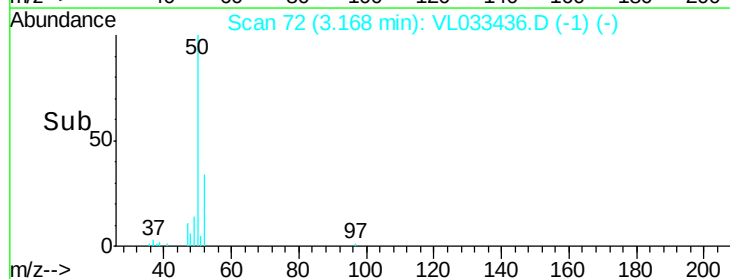
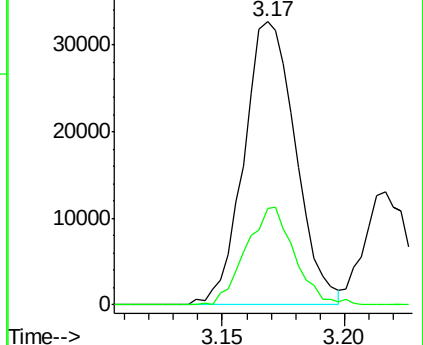
50 100

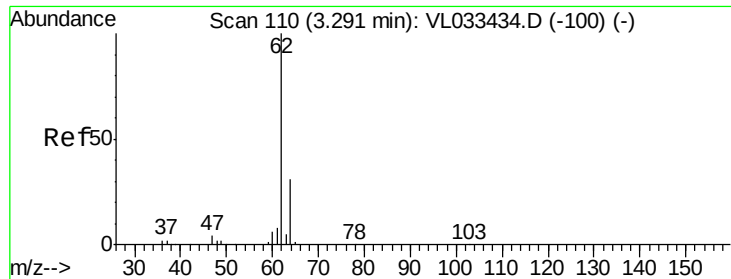
52 34.0 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.932 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 47220

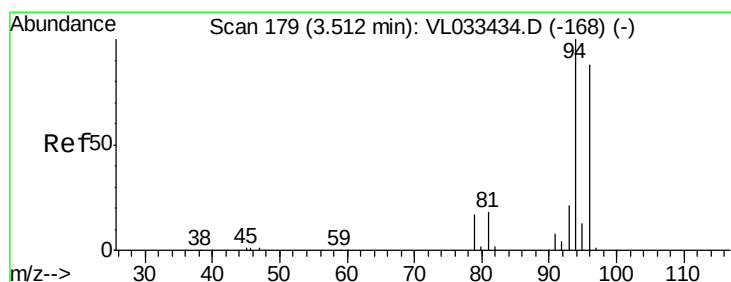
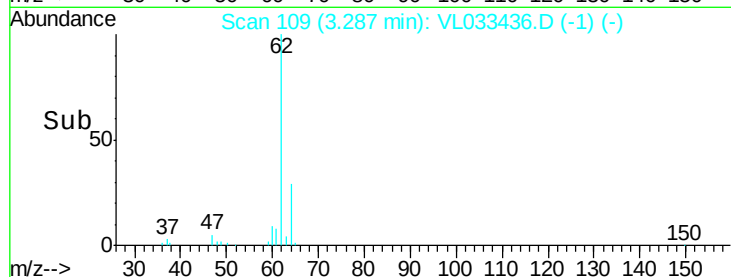
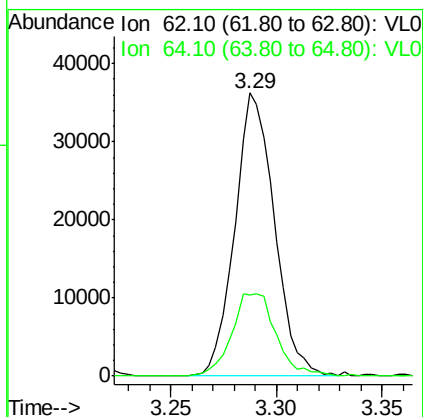
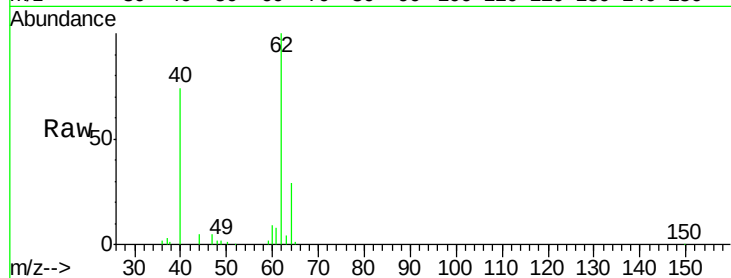
Ion Ratio Lower Upper

62 100

64 28.9 25.0 37.6

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#6

Bromomethane

Concen: 1.030 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033436.D

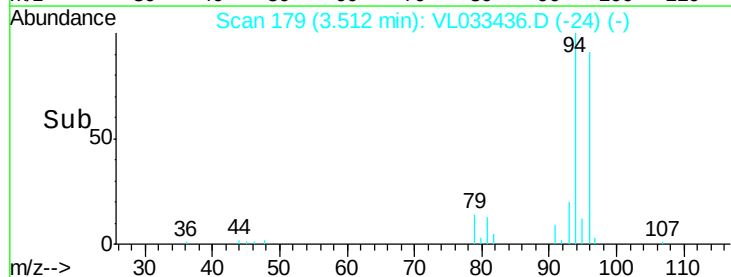
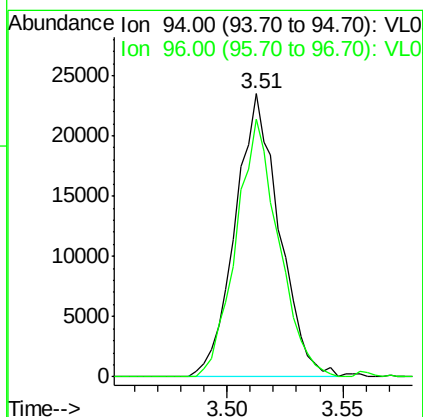
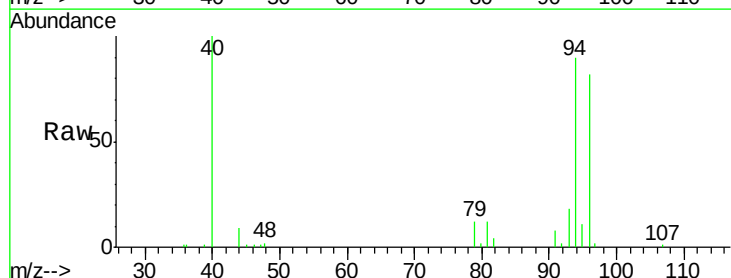
Acq: 25 Mar 2019 11:47

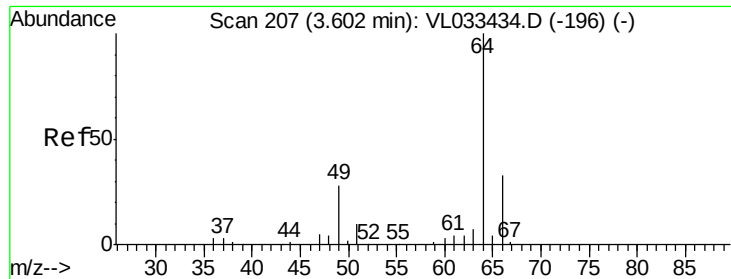
Tgt Ion: 94 Resp: 30997

Ion Ratio Lower Upper

94 100

96 91.1 74.6 111.8





#7

Chloroethane

Concen: 0.943 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 16693

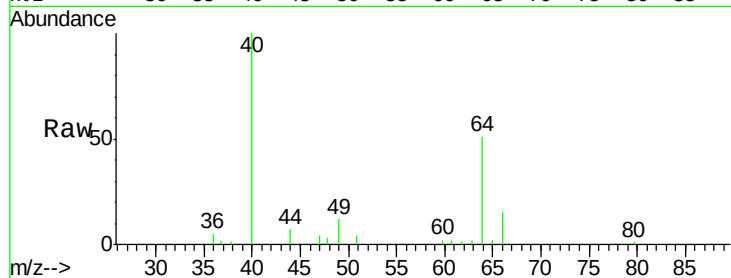
Ion Ratio Lower Upper

64 100

66 29.9 24.0 36.0

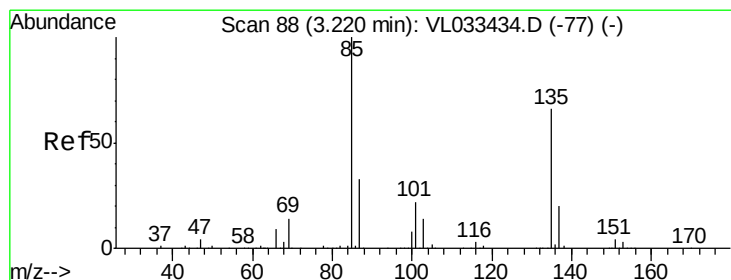
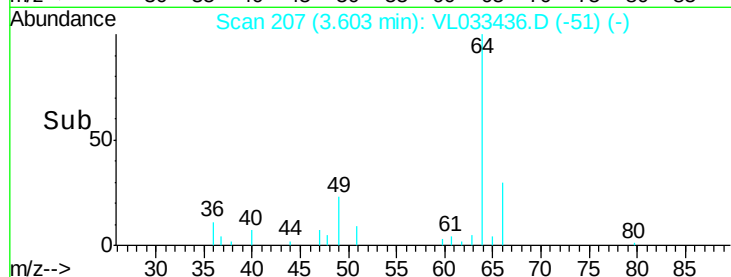
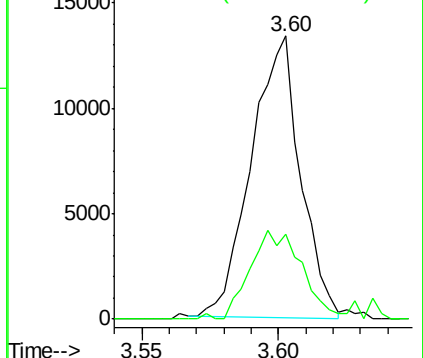
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.075 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033436.D

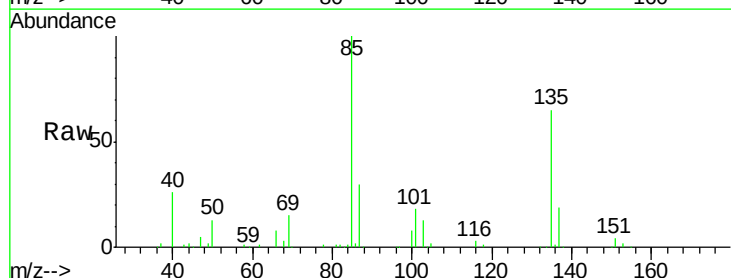
Acq: 25 Mar 2019 11:47

Tgt Ion: 85 Resp: 127181

Ion Ratio Lower Upper

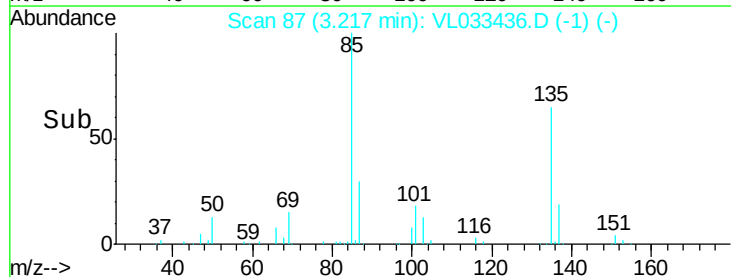
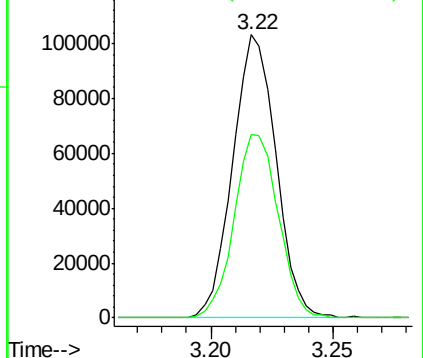
85 100

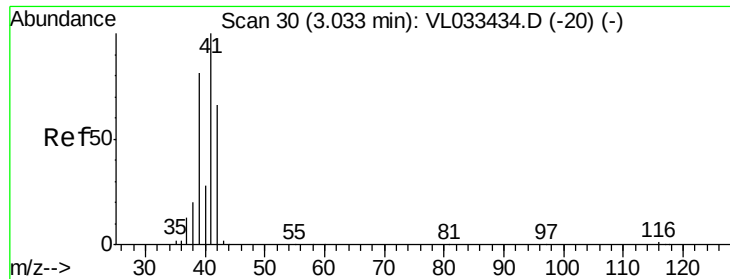
135 66.1 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.927 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 37538

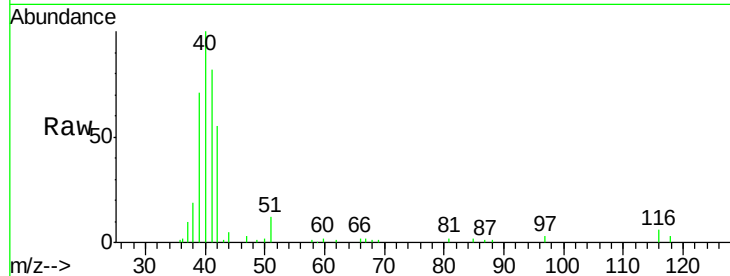
Ion Ratio Lower Upper

41 100

42 67.8 55.2 82.8

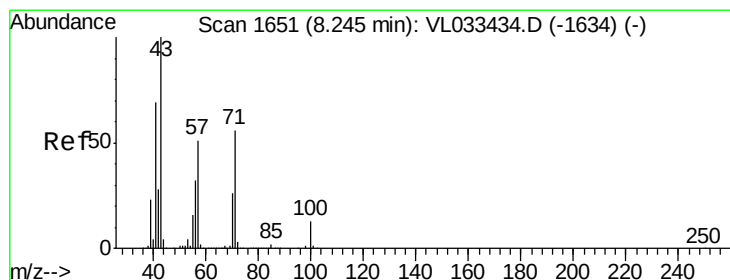
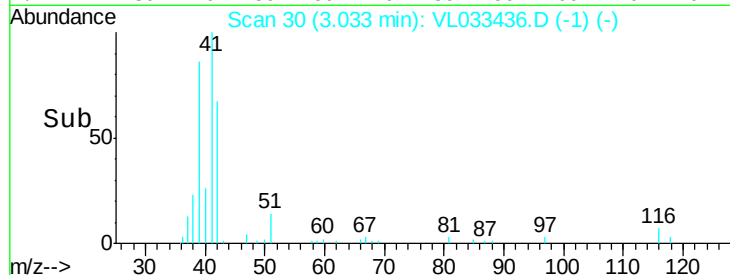
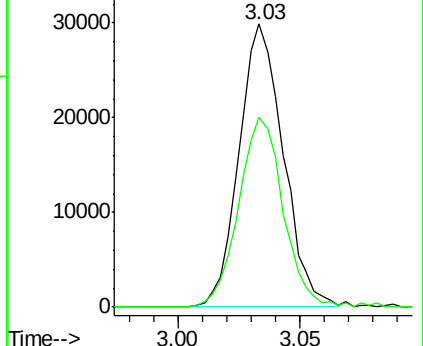
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 1.010 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033436.D

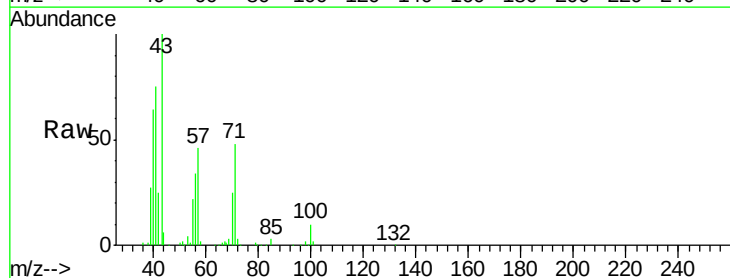
Acq: 25 Mar 2019 11:47

Tgt Ion: 43 Resp: 101400

Ion Ratio Lower Upper

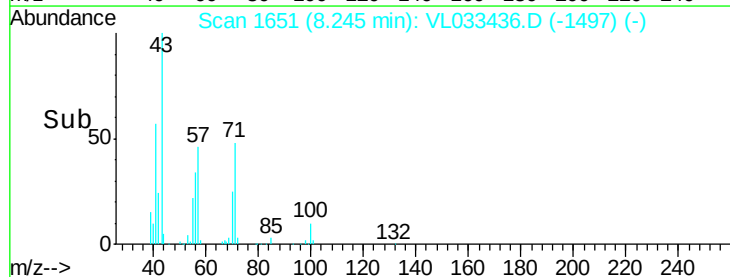
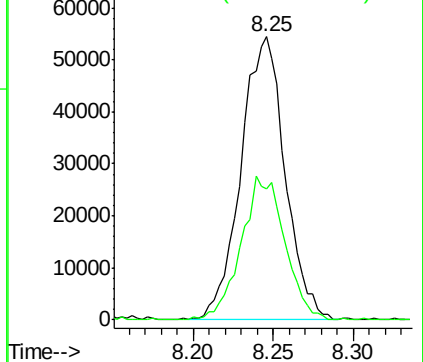
43 100

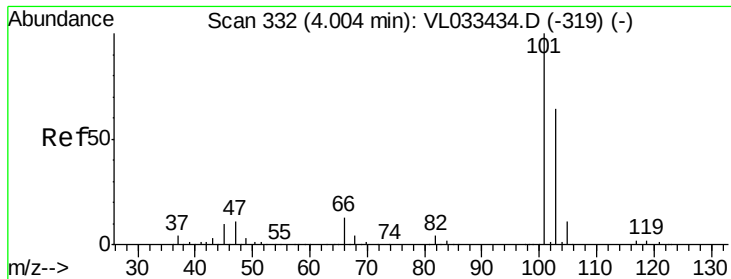
57 50.6 40.4 60.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 1.052 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:101 Resp: 145489

Ion Ratio Lower Upper

101 100

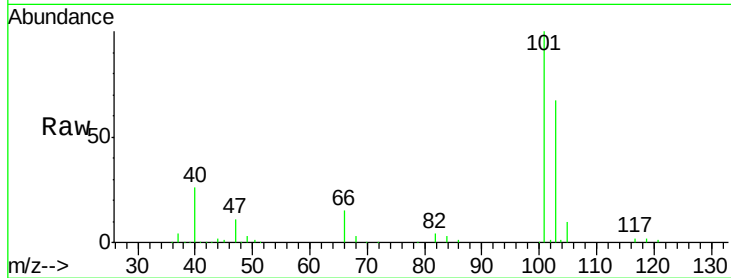
103 67.4 52.9 79.3

Manual Integrations

APPROVED

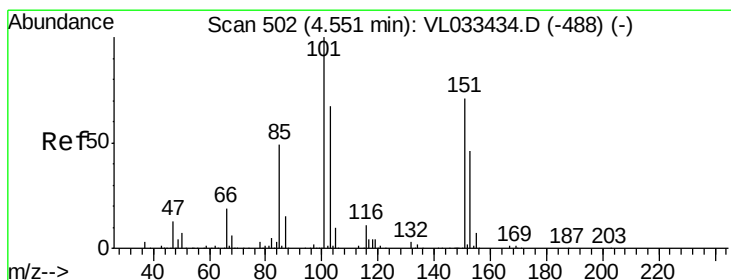
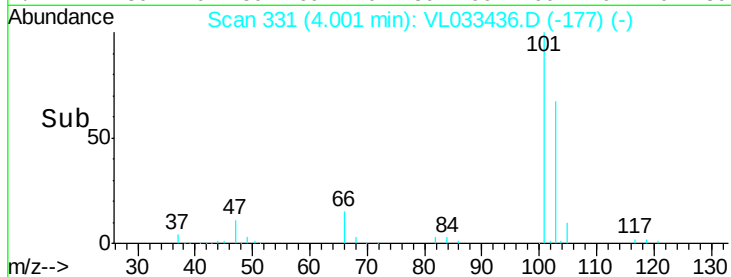
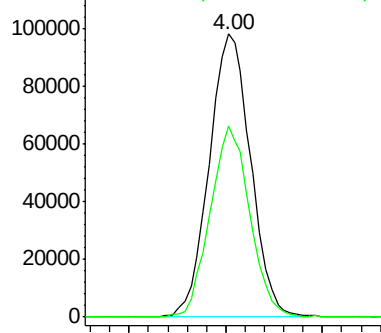
MMDadoda

4/1/2019 1:22:43 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.061 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033436.D

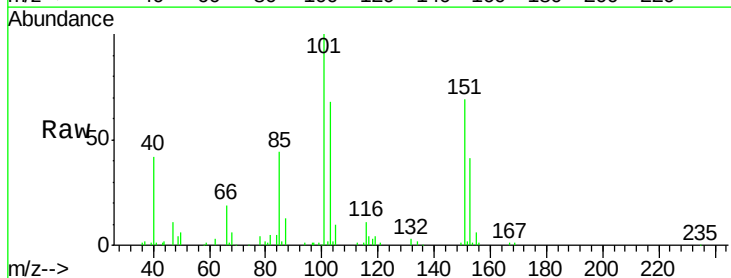
Acq: 25 Mar 2019 11:47

Tgt Ion:101 Resp: 97406

Ion Ratio Lower Upper

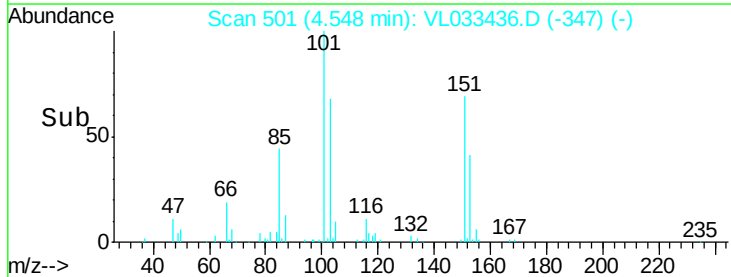
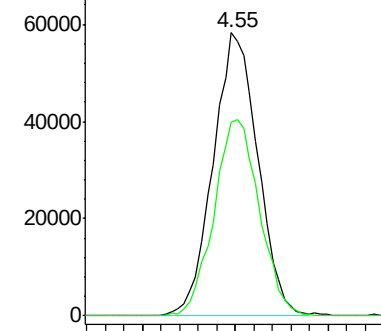
101 100

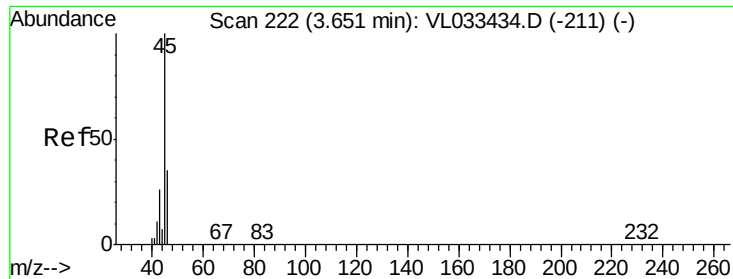
151 70.3 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





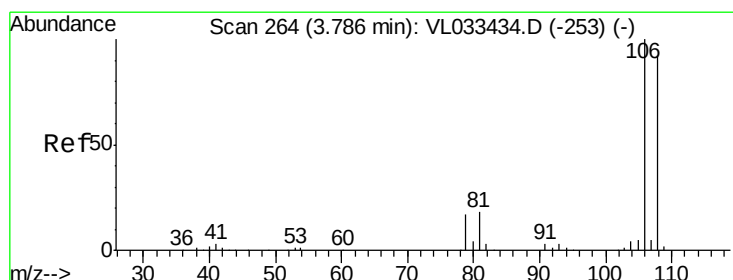
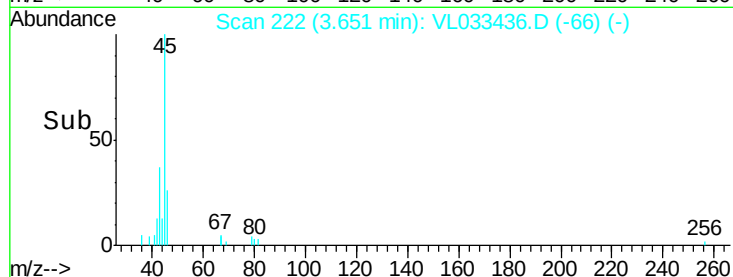
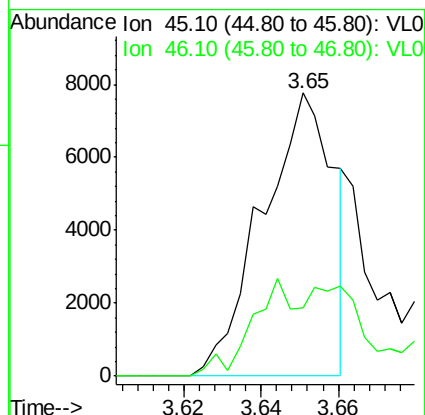
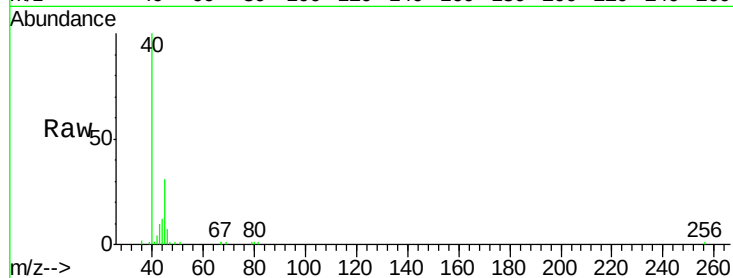
#13
Ethanol
Concen: 0.516 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 9947
Ion Ratio Lower Upper
45 100
46 52.3 14.9 59.7

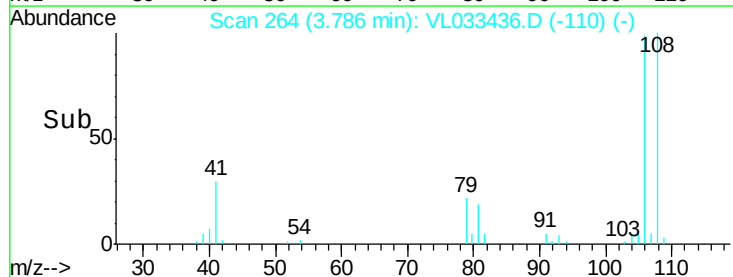
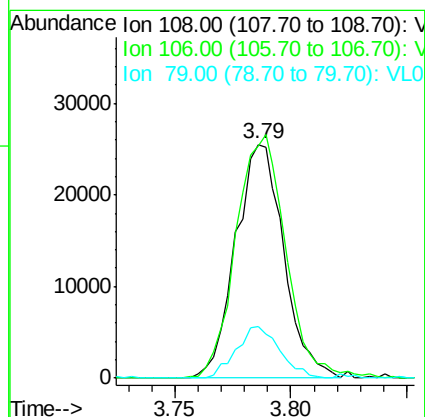
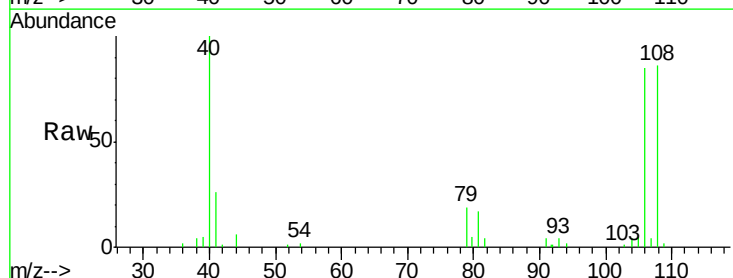
Manual Integrations
APPROVED

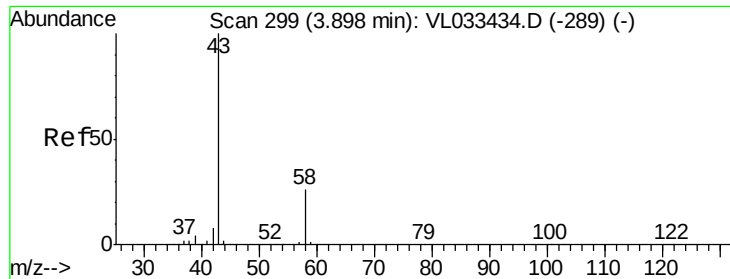
MMDadoda
4/1/2019 1:22:43 AM



#14
Bromoethene
Concen: 0.963 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion: 108 Resp: 36841
Ion Ratio Lower Upper
108 100
106 108.0 86.2 129.2
79 19.9 15.4 23.2





#15

Acetone

Concen: 0.811 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 99581

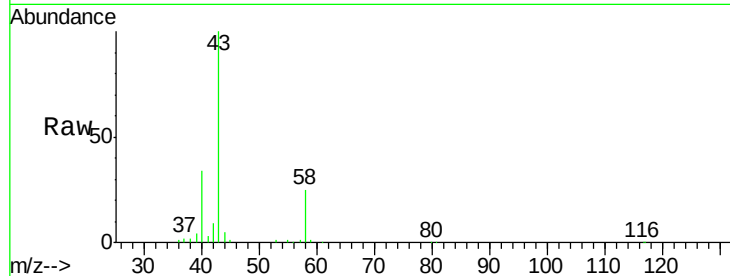
Ion Ratio Lower Upper

43 100

58 25.4 20.4 30.6

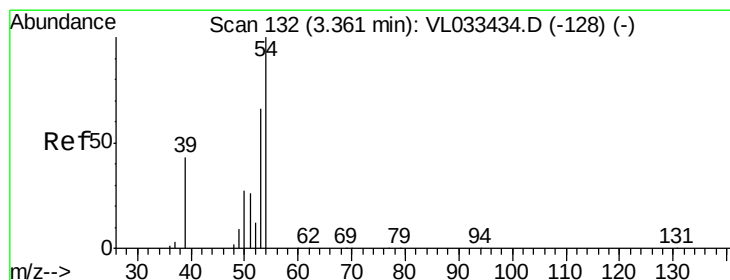
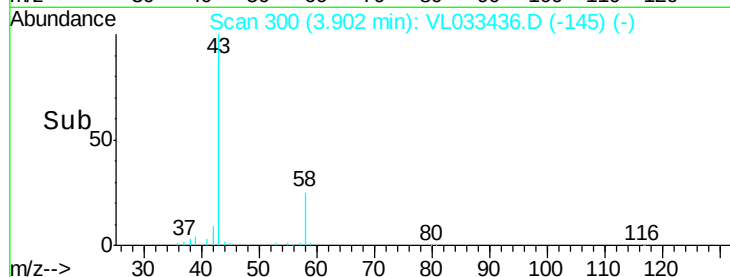
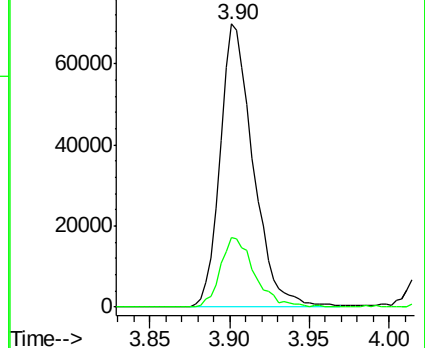
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.878 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033436.D

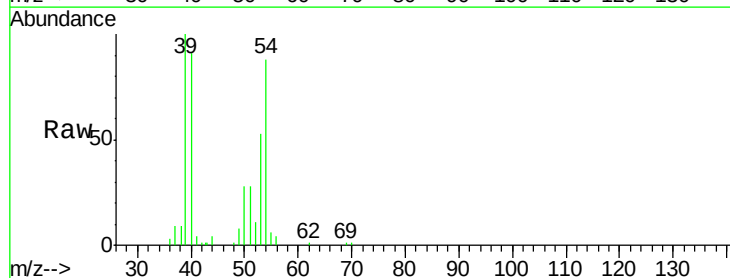
Acq: 25 Mar 2019 11:47

Tgt Ion: 39 Resp: 35031

Ion Ratio Lower Upper

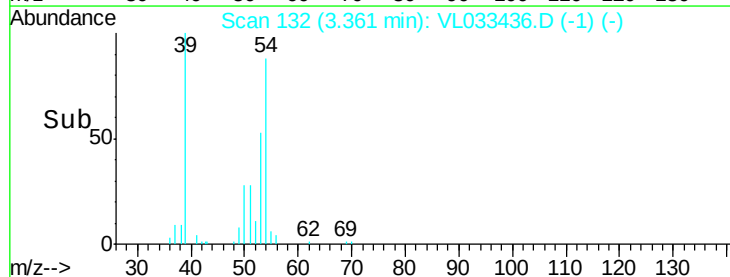
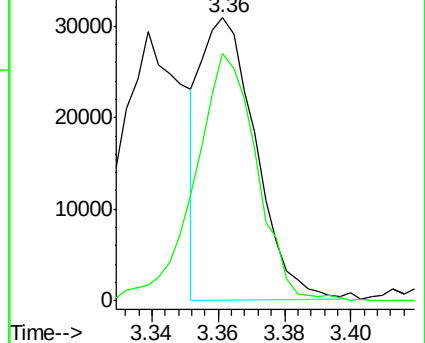
39 100

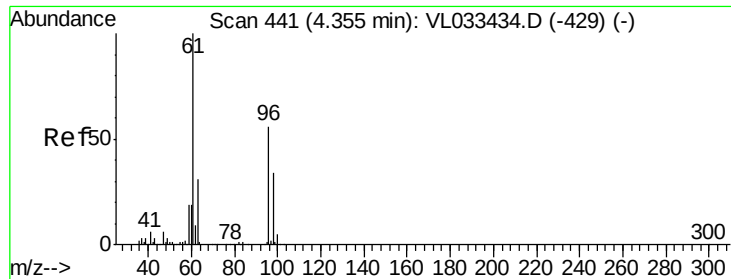
54 100.4 76.8 115.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

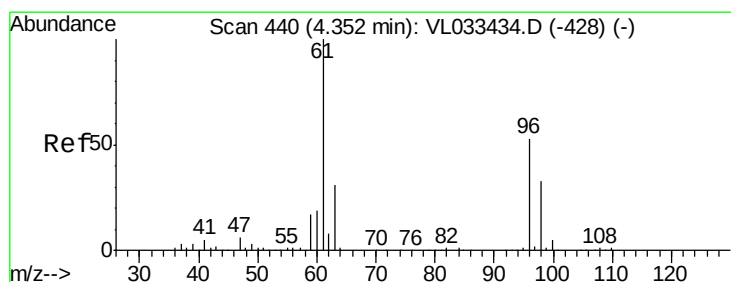
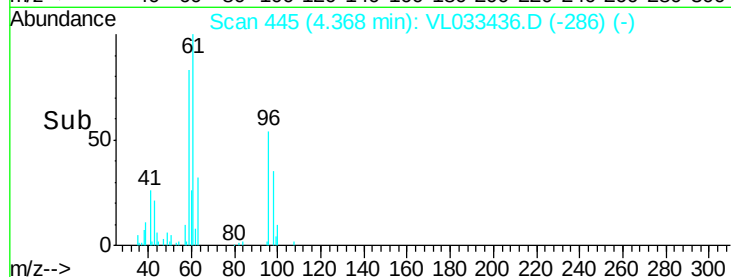
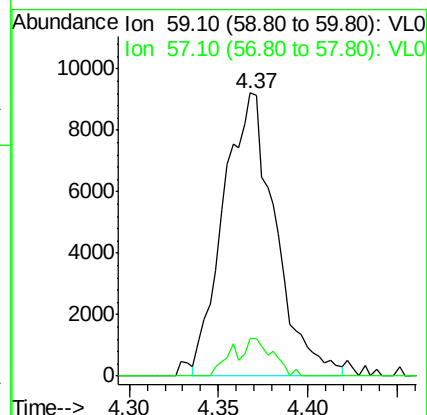
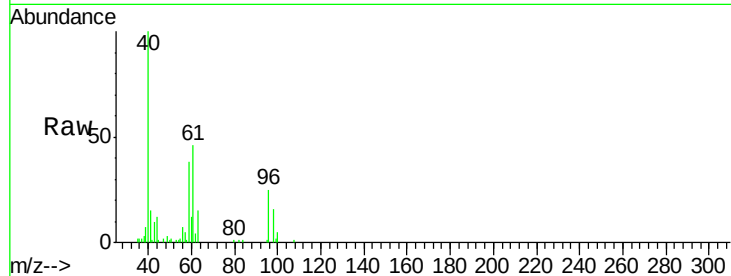
tert-Butyl alcohol
Concen: 1.085 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tot Ion: 59 Resp: 18743
Ion Ratio Lower Upper
59 100
57 10.0 7.7 11.5

Manual Integrations
APPROVED

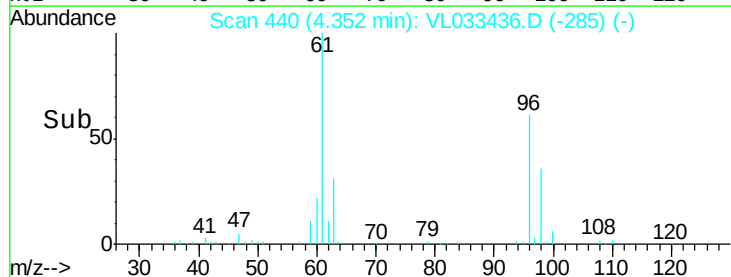
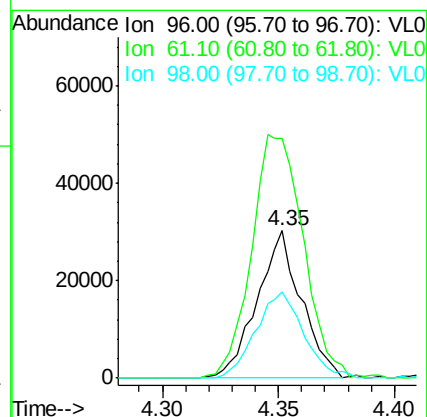
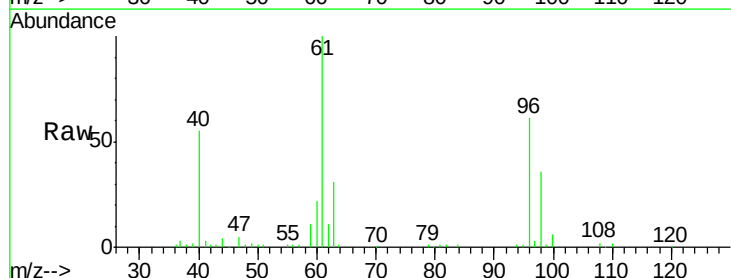
MMDadoda
4/1/2019 1:22:43 AM

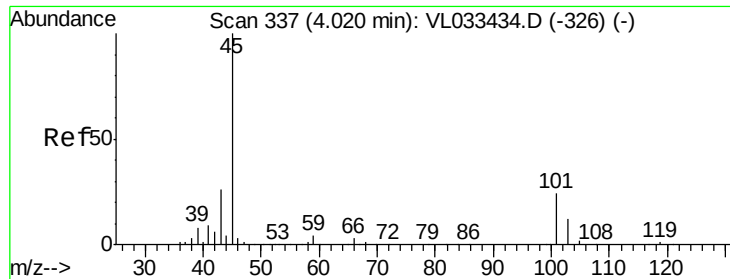


#18

1,1-Dichloroethene
Concen: 0.954 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion: 96 Resp: 40052
Ion Ratio Lower Upper
96 100
61 162.8 148.6 222.8
98 58.3 50.3 75.5





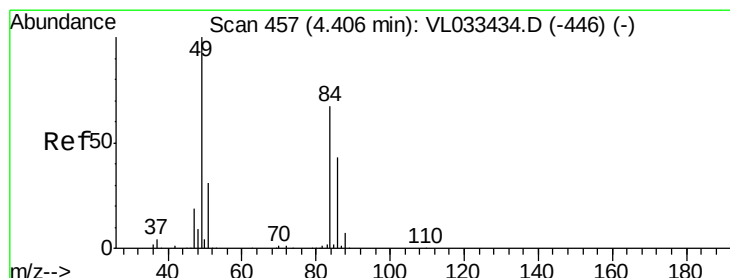
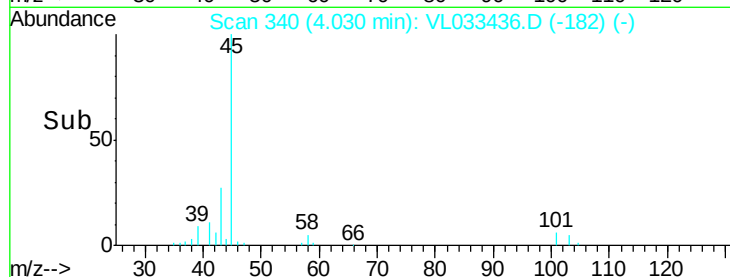
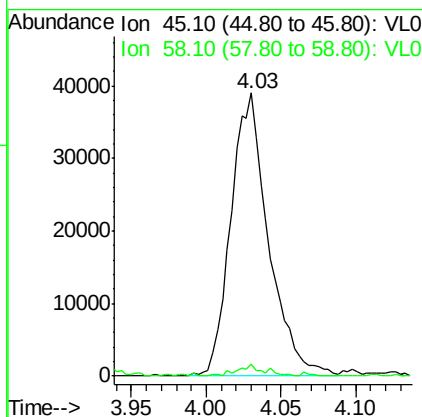
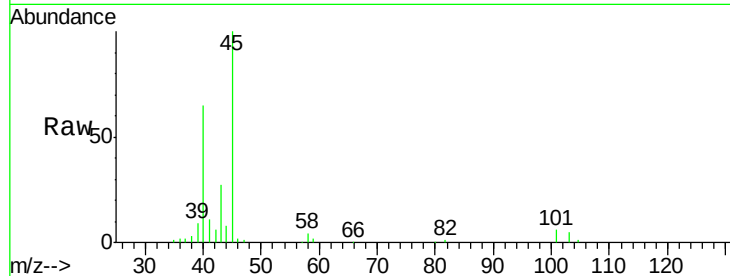
#19
Isopropyl Alcohol
Concen: 1.169 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 68258
Ion Ratio Lower Upper
45 100
58 3.1 1.5 2.3#

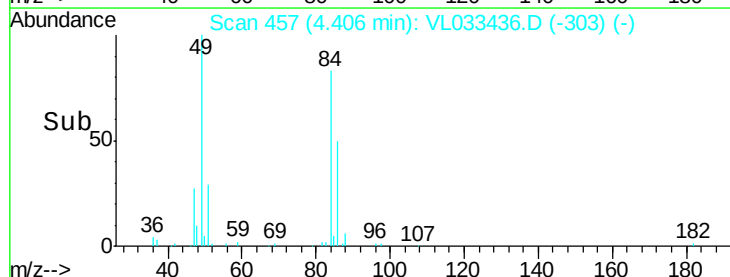
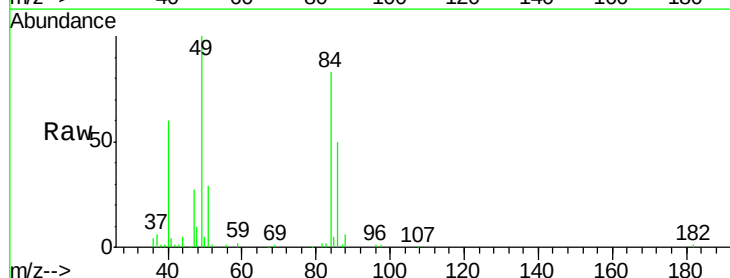
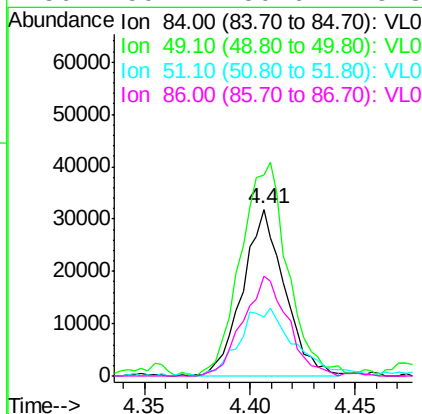
Manual Integrations
APPROVED

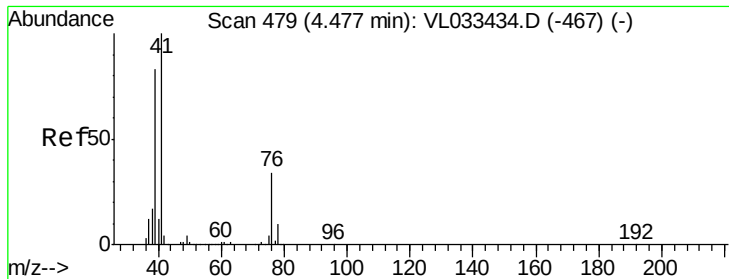
MMDadoda
4/1/2019 1:22:43 AM



#20
Methylene Chloride
Concen: 1.104 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion: 84 Resp: 44217
Ion Ratio Lower Upper
84 100
49 119.7 115.4 173.0
51 33.5 35.8 53.6#
86 59.7 50.6 75.8





#21

Allvl Chloride

Concen: 0.979 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

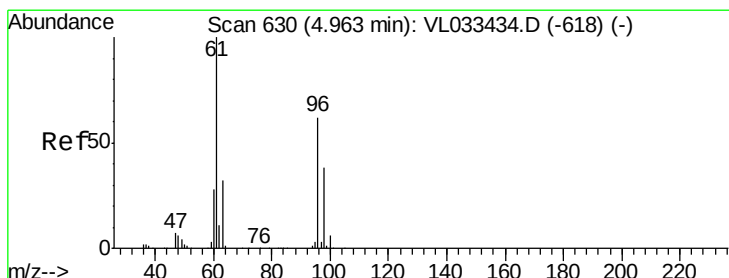
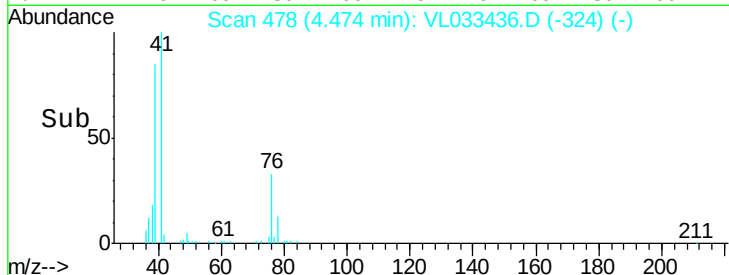
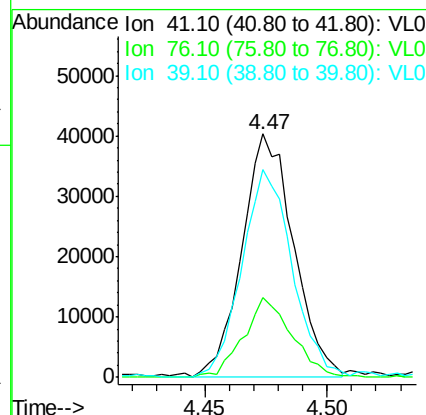
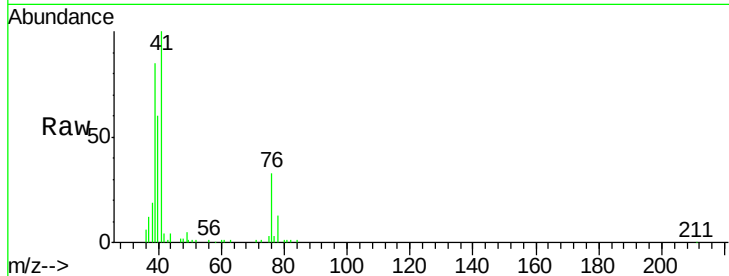
ClientSampleId :

VSTDIC001

Tot Ion:	41	Resp:	58340
Ion	Ratio	Lower	Upper
41	100		
76	31.2	25.0	37.4
39	85.7	65.9	98.9

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#22

trans-1,2-Dichloroethene

Concen: 1.068 ppbv

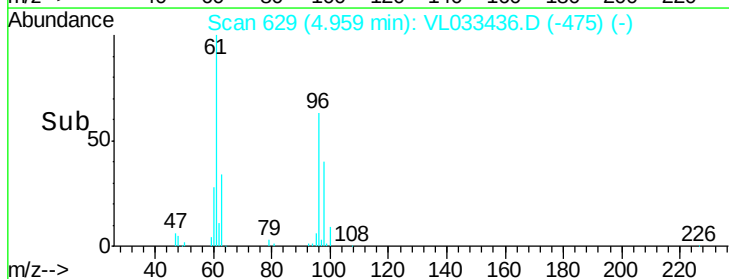
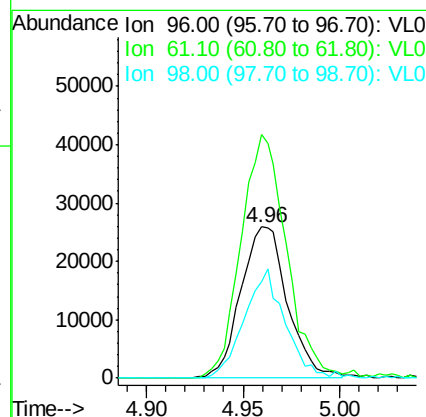
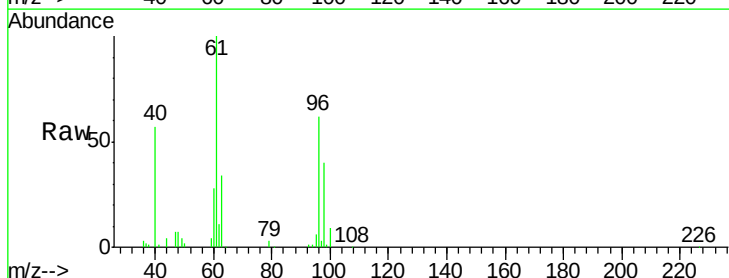
RT: 4.96 min Scan# 629

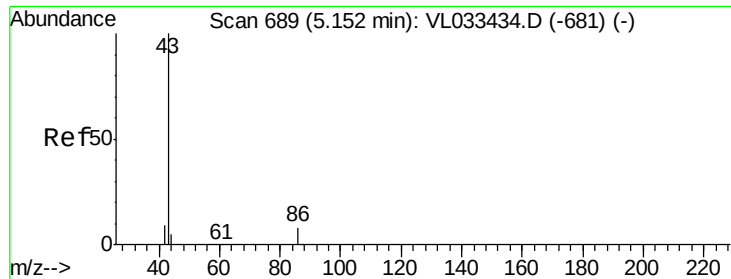
Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion:	96	Resp:	43441
Ion	Ratio	Lower	Upper
96	100		
61	161.3	130.0	195.0
98	63.9	50.0	75.0





#23

Vinyl Acetate

Concen: 0.942 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 133789

Ion Ratio Lower Upper

43 100

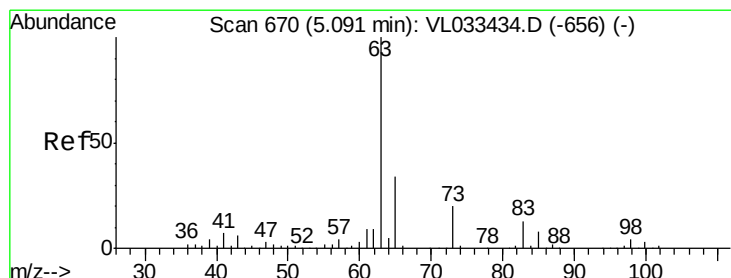
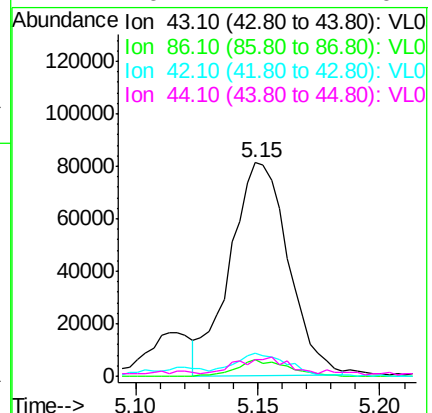
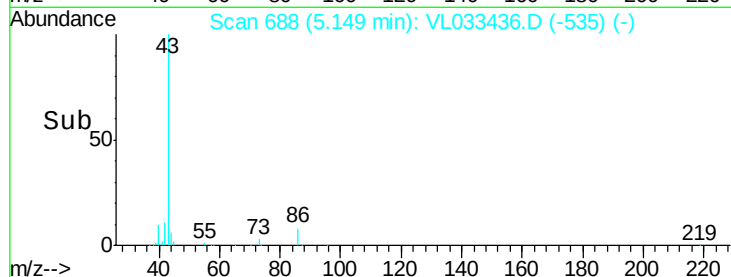
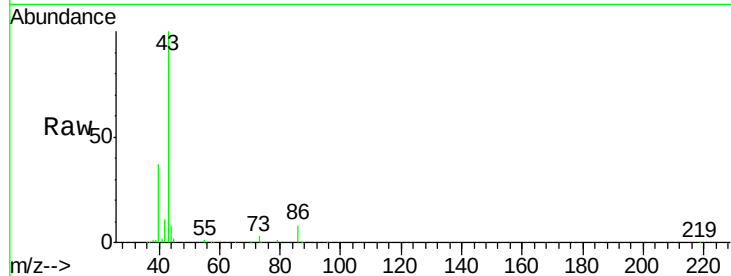
86 7.5 6.2 9.2

42 10.7 8.1 12.1

44 6.7 4.1 6.1#

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#24

1,1-Dichloroethane

Concen: 1.027 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

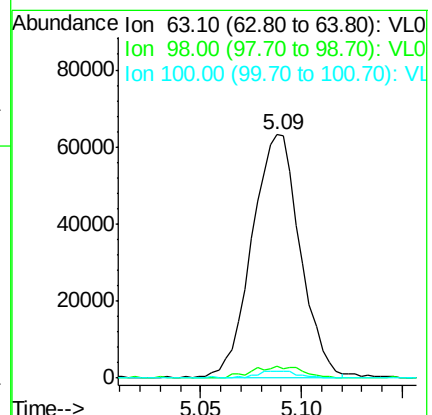
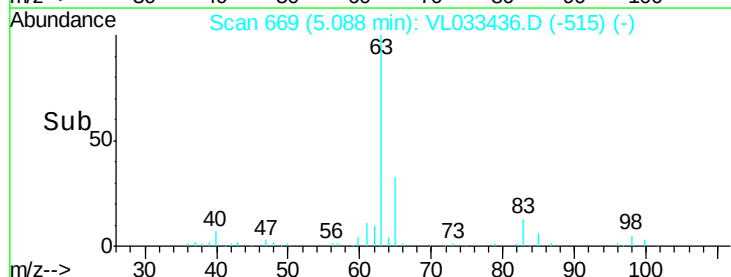
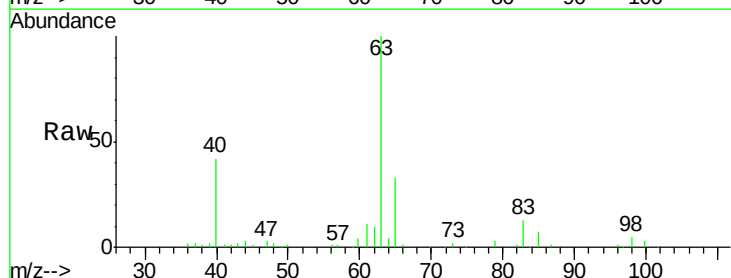
Tgt Ion: 63 Resp: 105351

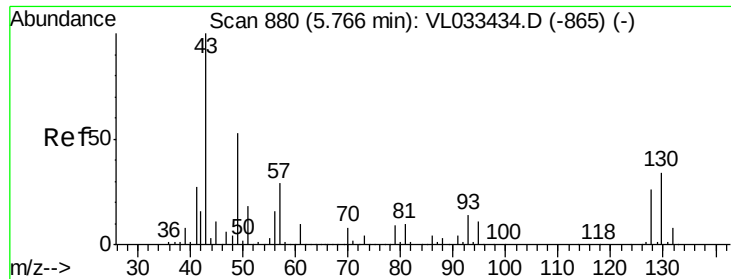
Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.1

100 2.9 1.3 3.8





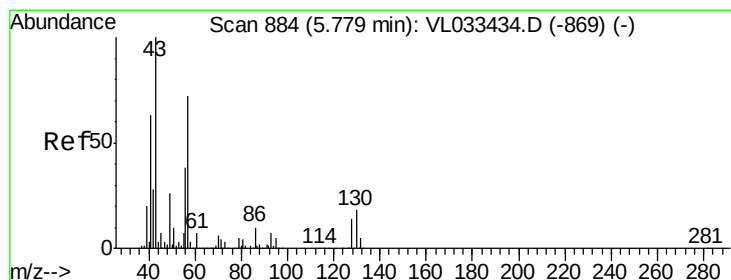
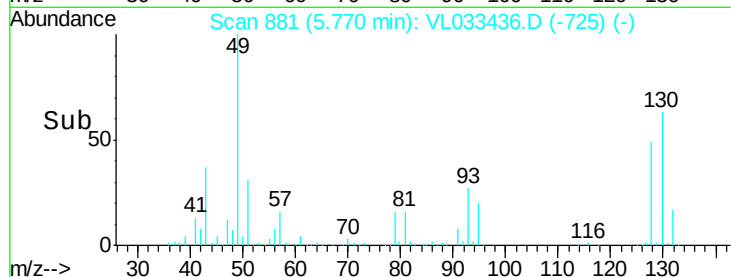
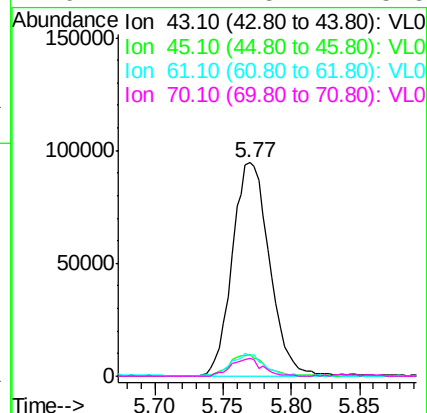
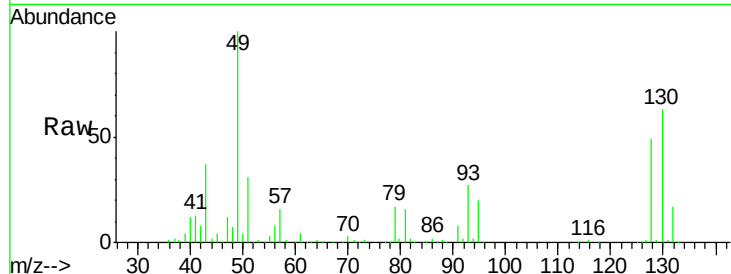
#25
Ethyl Acetate
Concen: 1.006 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
43	100	179519		
45	9.9		7.9	11.9
61	9.6		7.4	11.2
70	7.1		5.7	8.5

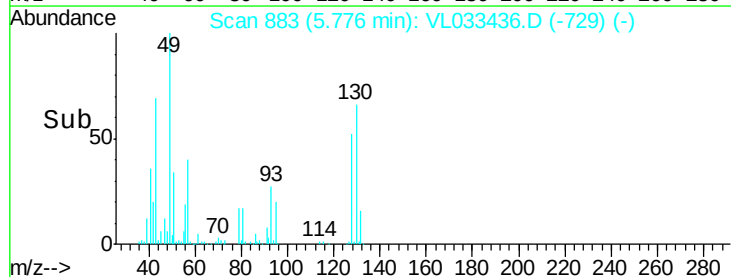
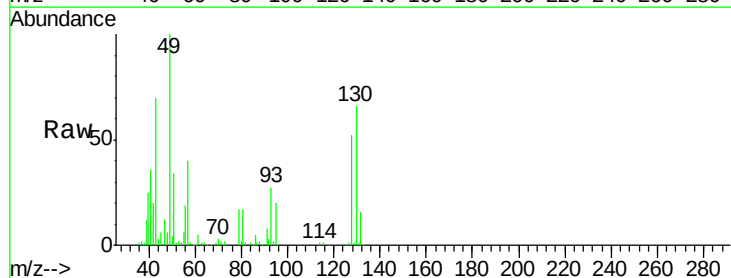
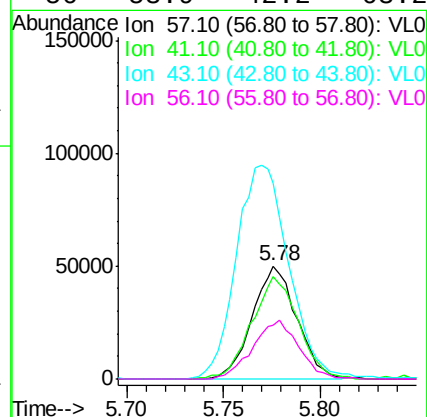
Manual Integrations
APPROVED

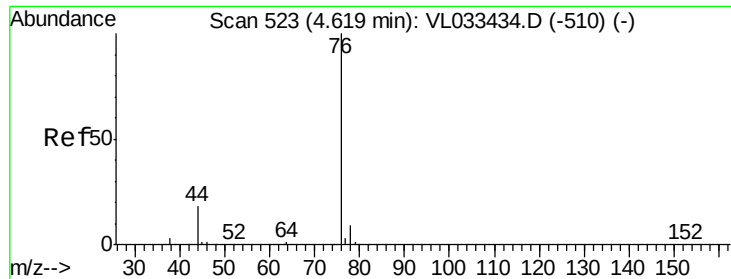
MMDadoda
4/1/2019 1:22:43 AM



#26
Hexane
Concen: 1.002 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	79934		
41	95.2		70.5	105.7
43	224.9		181.8	272.8
56	53.9		42.2	63.2





#27

Carbon Disulfide

Concen: 0.903 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

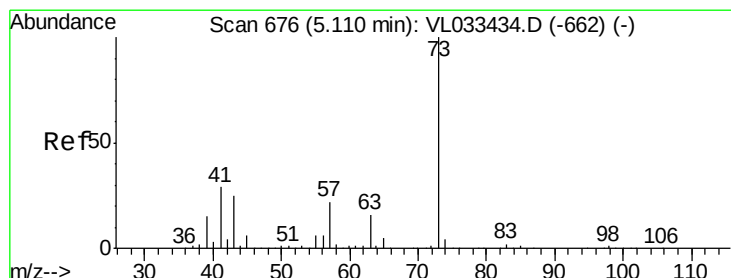
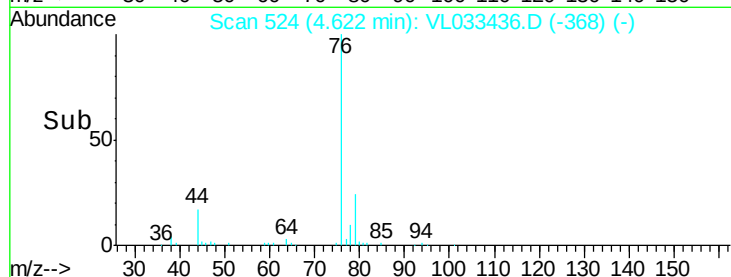
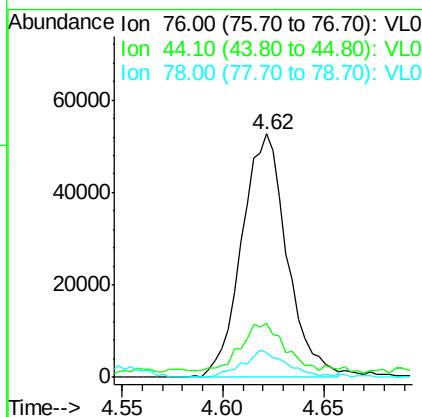
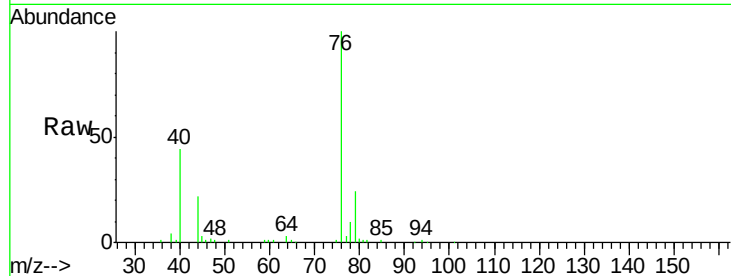
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	82927
Ion	Ratio	Lower	Upper
76	100		
44	23.2	15.2	22.8#
78	10.8	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#28

Methyl tert-Butyl Ether

Concen: 0.923 ppbv

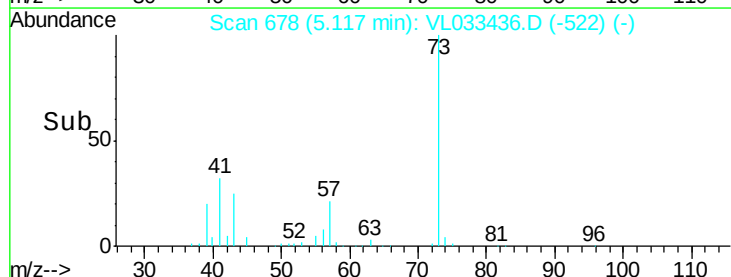
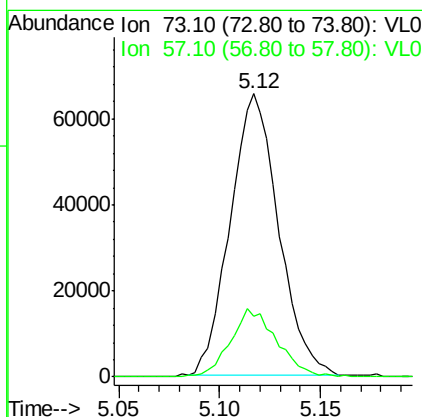
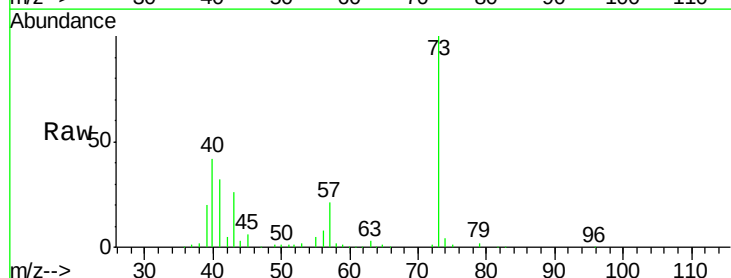
RT: 5.12 min Scan# 678

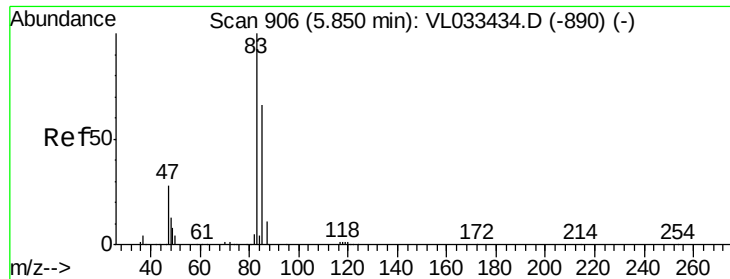
Delta R.T. 0.00 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion:	73	Resp:	109430
Ion	Ratio	Lower	Upper
73	100		
57	23.4	17.4	26.0





#29

Chloroform

Concen: 1.045 ppbv

RT: 5.84 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 136577

Ion Ratio Lower Upper

83 100

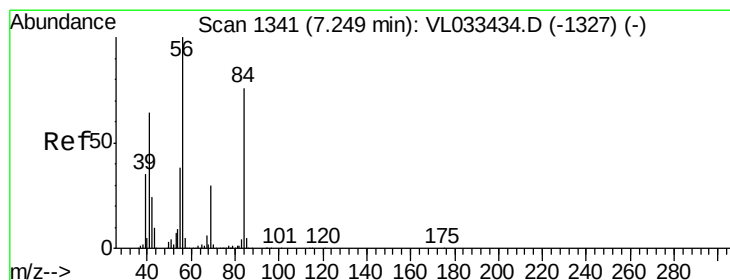
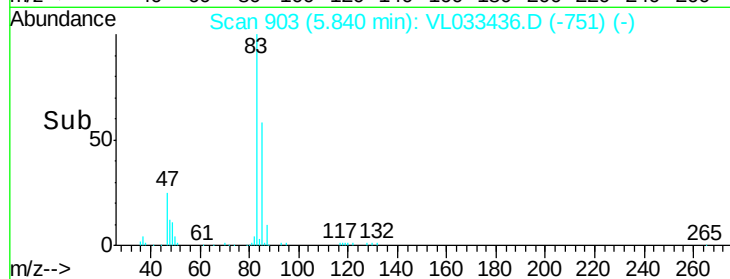
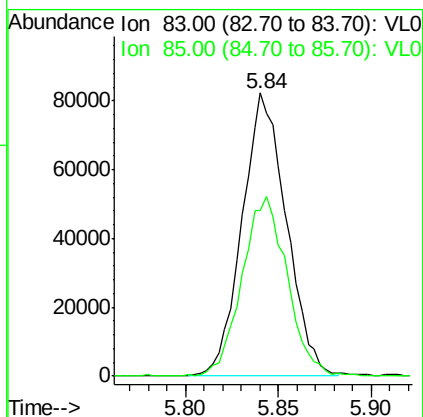
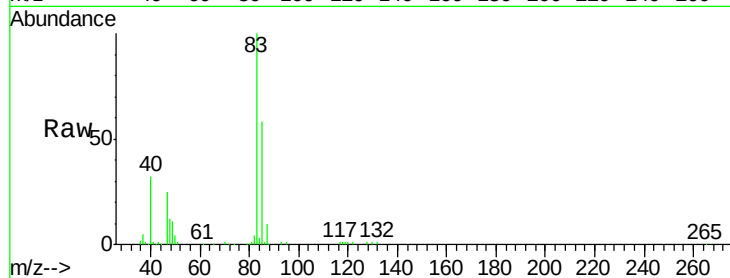
85 58.0 52.0 78.0

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:22:43 AM



#30

Cyclohexane

Concen: 0.935 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

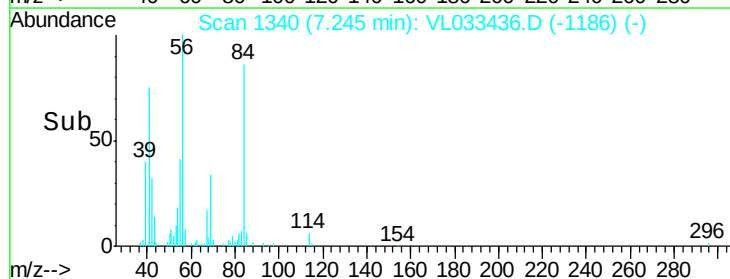
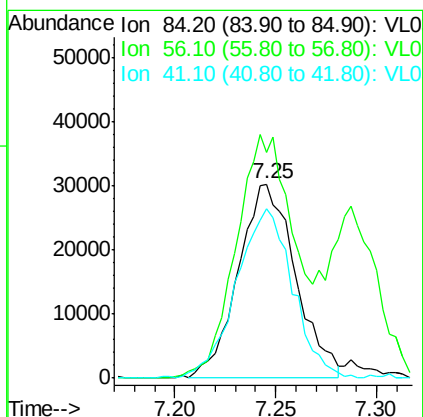
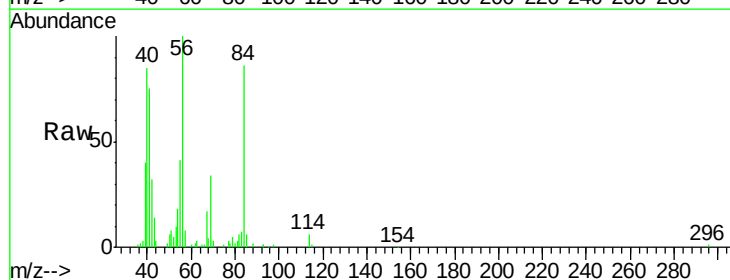
Tgt Ion: 84 Resp: 59813

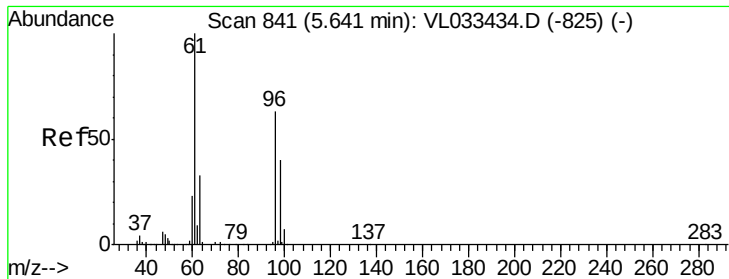
Ion Ratio Lower Upper

84 100

56 131.7 111.3 166.9

41 86.9 69.6 104.4





#31

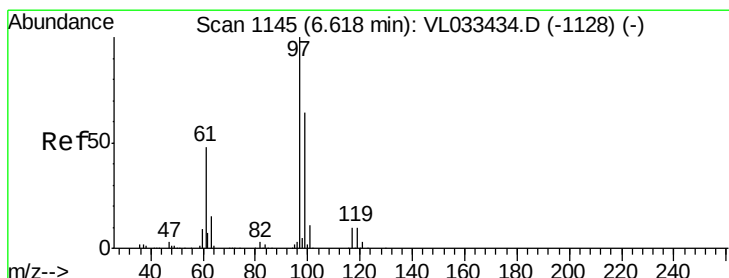
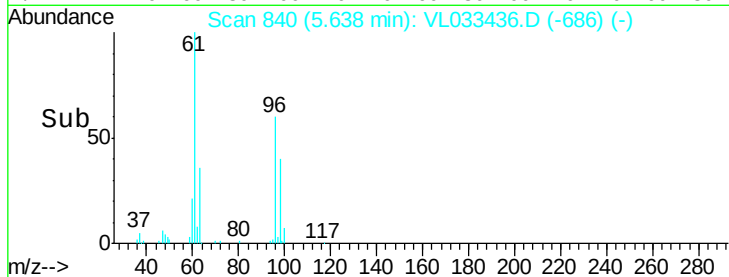
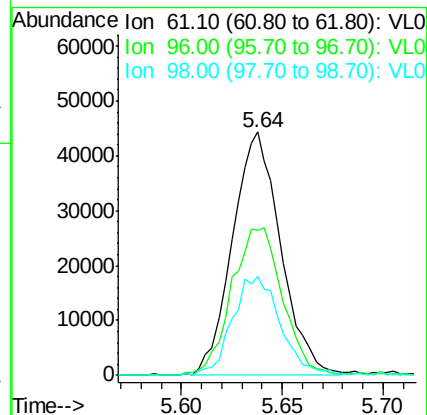
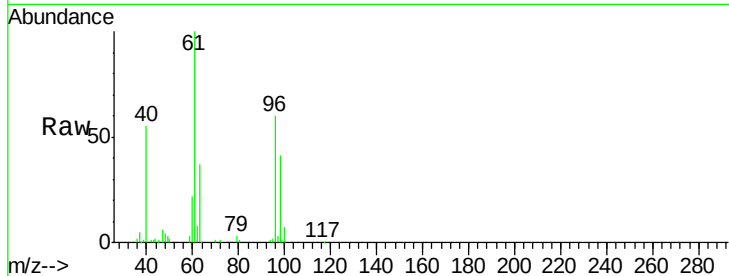
cis-1,2-Dichloroethene
 Concen: 0.930 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.2	50.3	75.5
98	41.3	31.5	47.3

Manual Integrations
 APPROVED

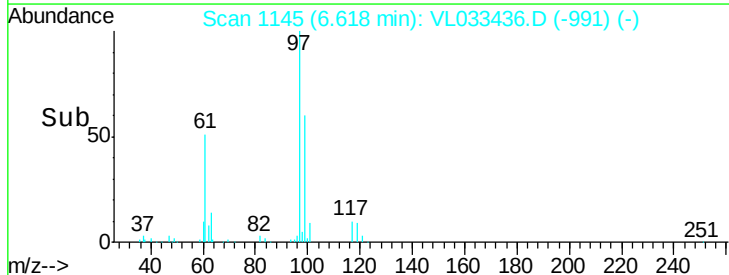
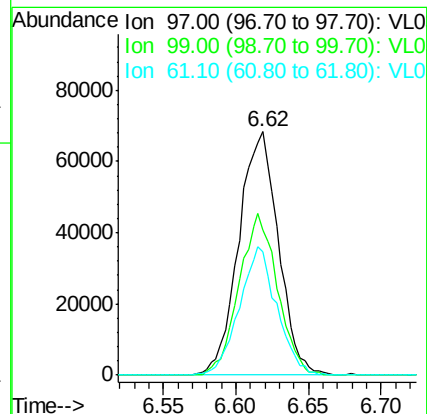
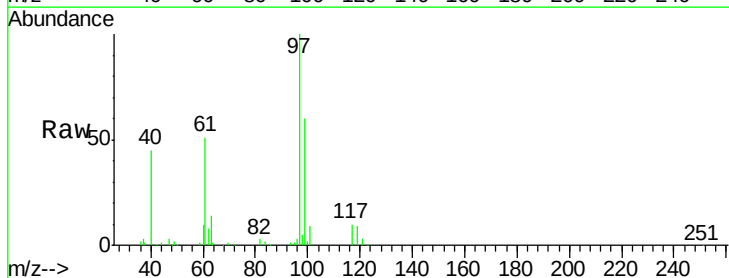
MMDadoda
 4/1/2019 1:22:43 AM

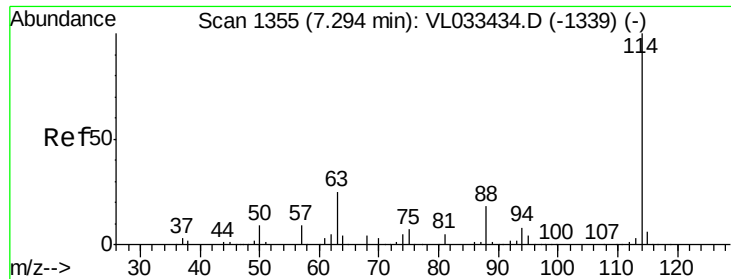


#32

1,1,1-Trichloroethane
 Concen: 1.009 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.0	76.6
61	50.0	39.3	58.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:114 Resp: 1830264

Ion Ratio Lower Upper

114 100

63 26.5 21.4 32.2

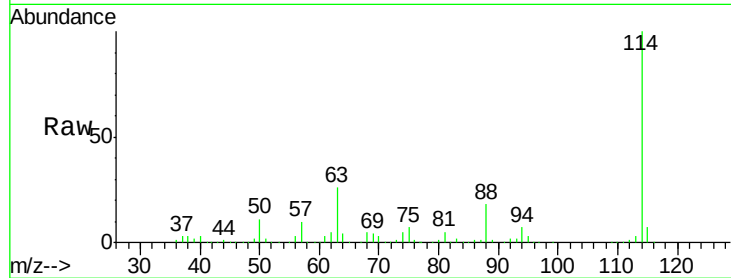
88 18.2 14.5 21.7

Manual Integrations

APPROVED

MMDadoda

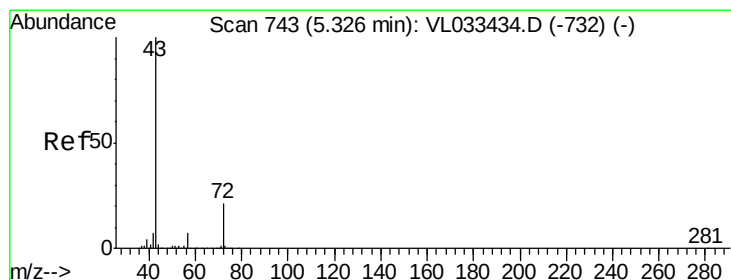
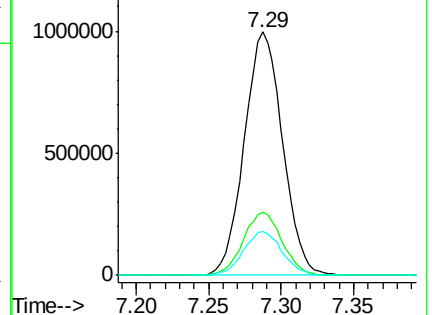
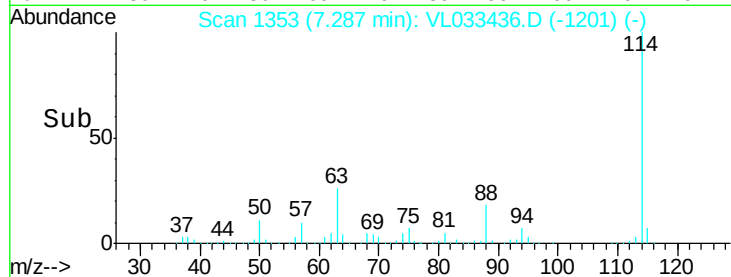
4/1/2019 1:22:43 AM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.961 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.00 min

Lab File: VL033436.D

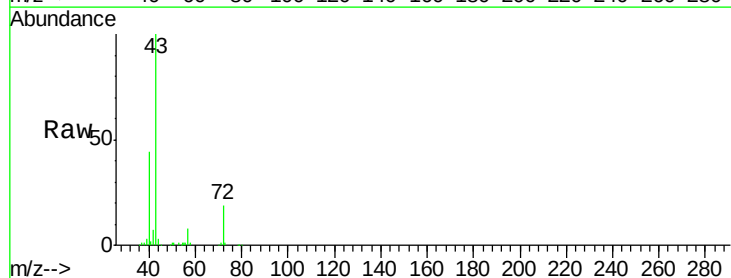
Acq: 25 Mar 2019 11:47

Tgt Ion: 43 Resp: 115471

Ion Ratio Lower Upper

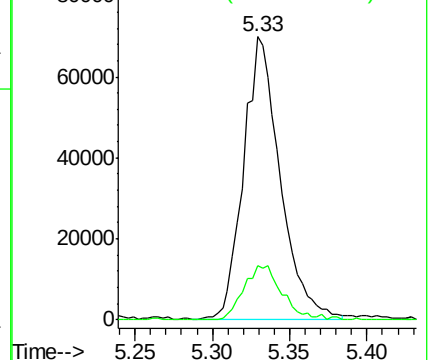
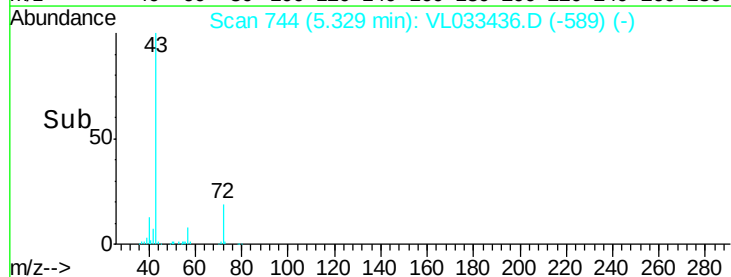
43 100

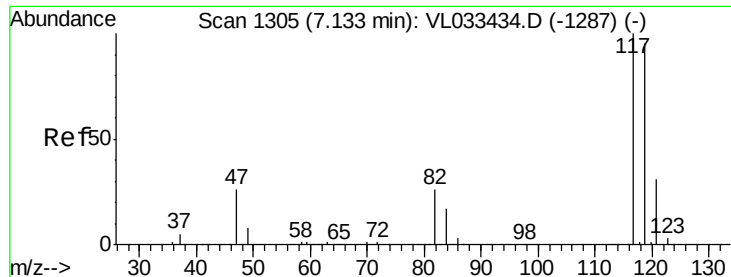
72 20.3 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.017 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

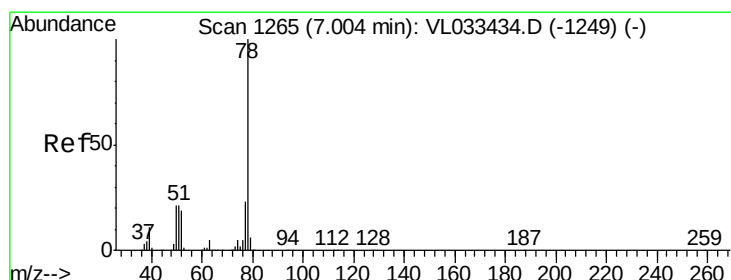
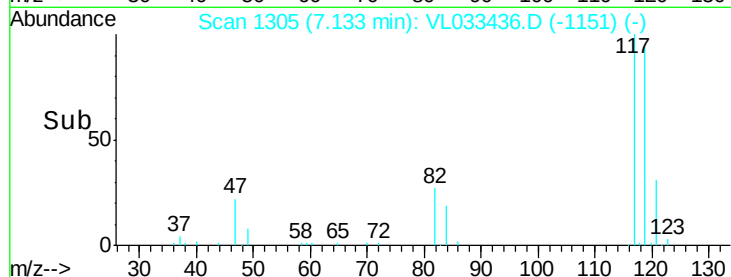
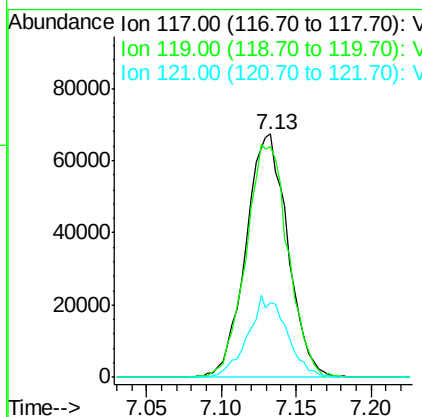
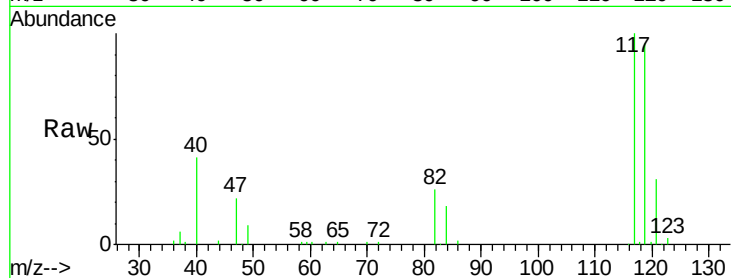
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.4	116.0
121	31.0	24.9	37.3

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#36

Benzene

Concen: 0.945 ppbv

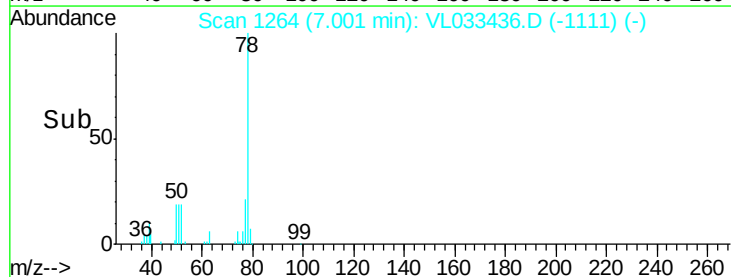
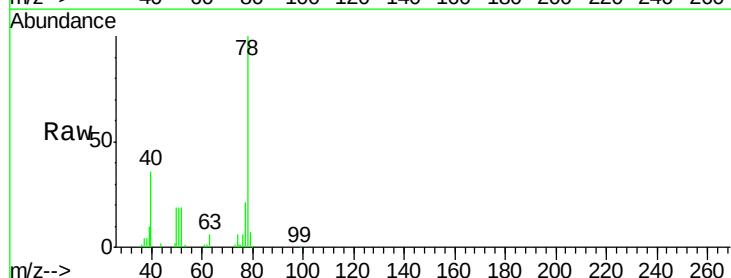
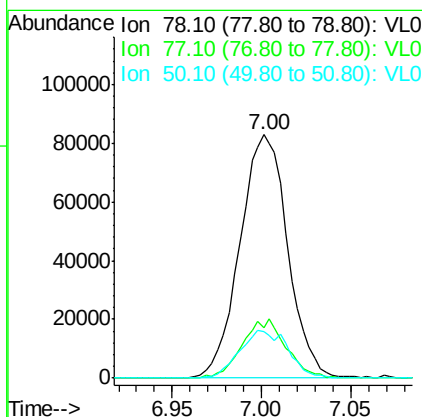
RT: 7.00 min Scan# 1264

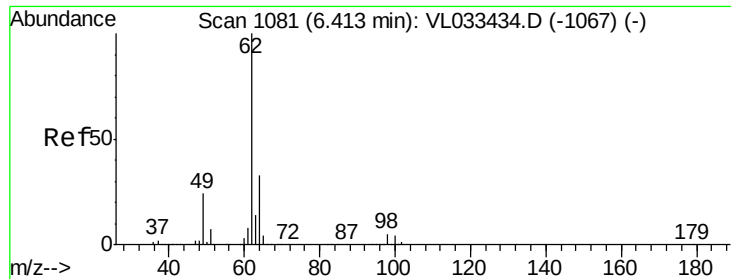
Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.4	18.1	27.1
50	18.9	15.2	22.8





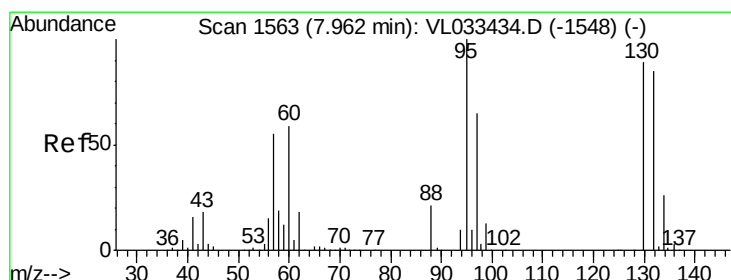
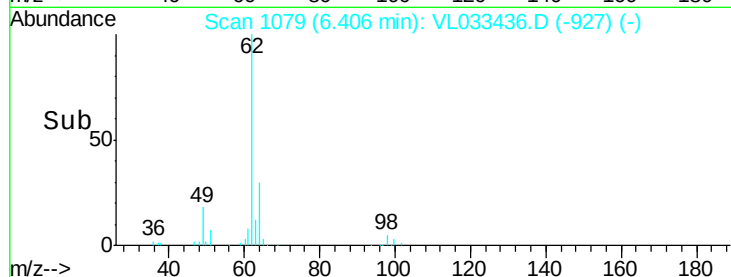
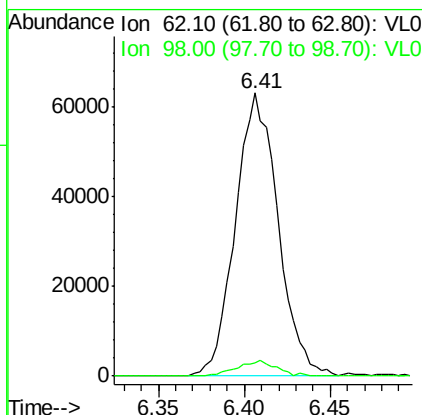
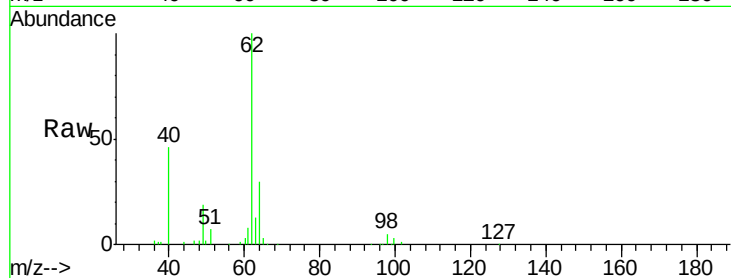
#37
 1,2-Dichloroethane
 Concen: 1.048 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	108559		
98	5.0		4.5	6.7

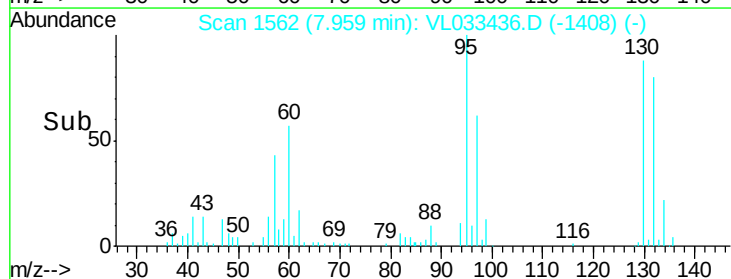
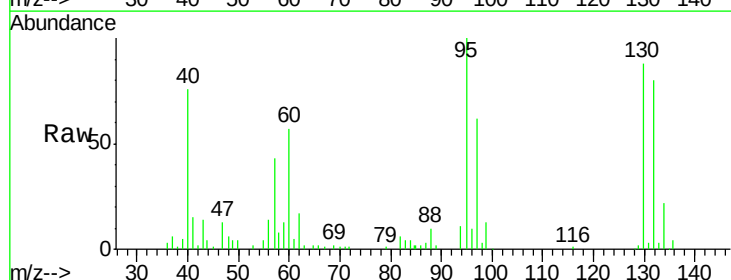
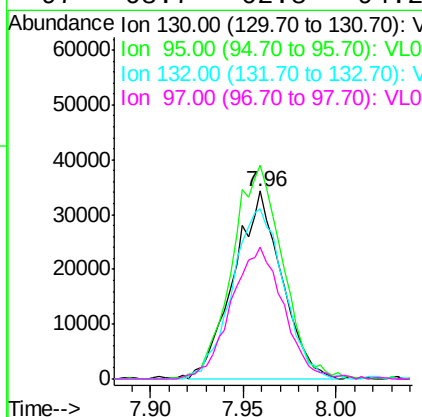
Manual Integrations
 APPROVED

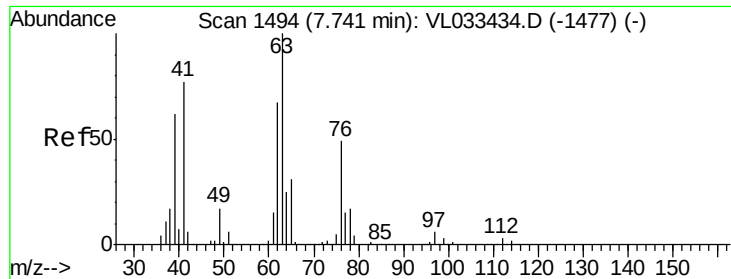
MMDadoda
 4/1/2019 1:22:43 AM



#38
 Trichloroethene
 Concen: 0.999 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	61905		
95	111.1		95.2	142.8
132	89.2		77.7	116.5
97	68.7		62.8	94.2





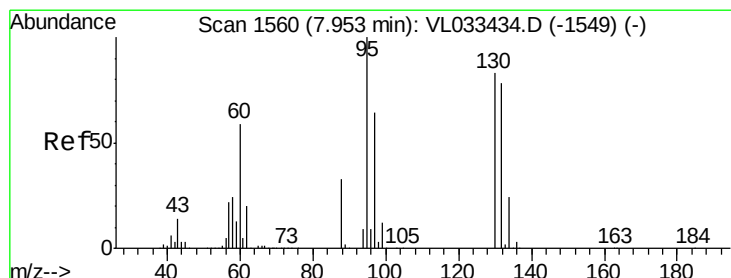
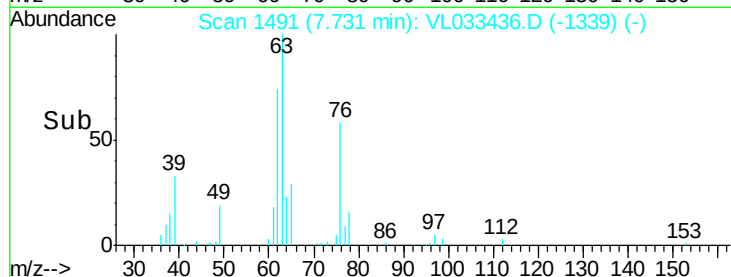
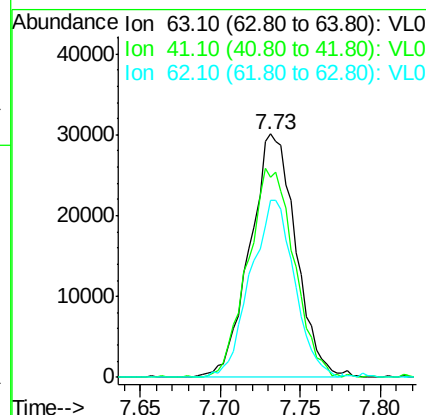
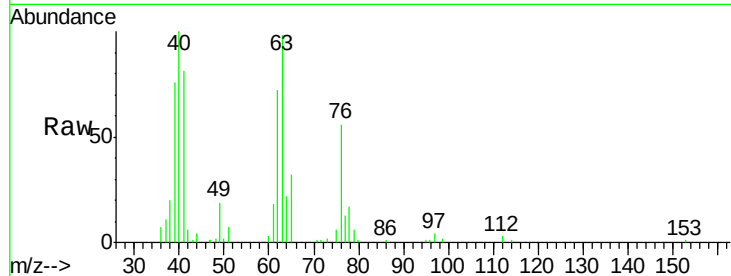
#39
 1,2-Dichloropropane
 Concen: 0.964 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	82.3	59.5	89.3
62	72.8	54.7	82.1

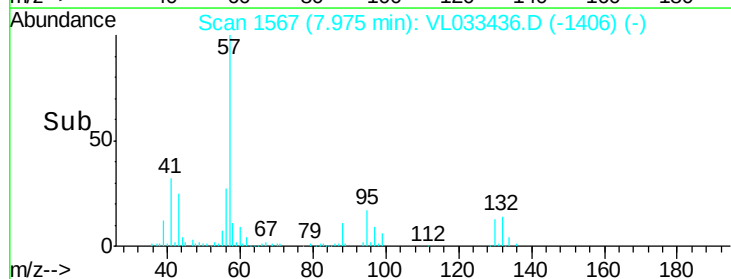
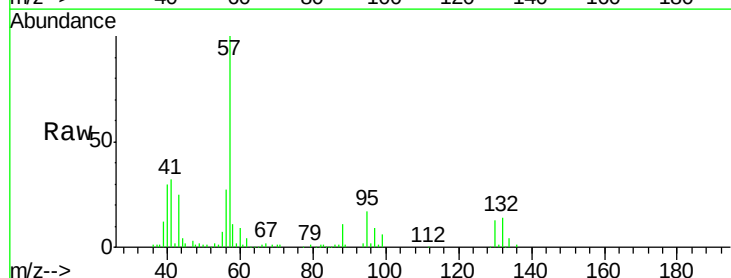
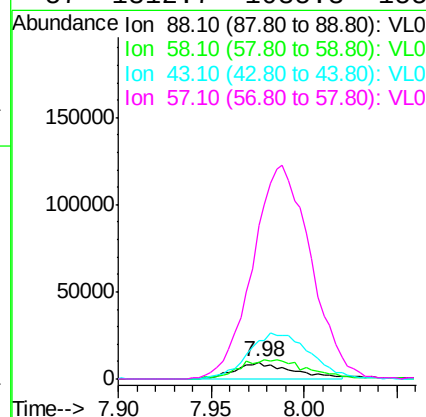
Manual Integrations
 APPROVED

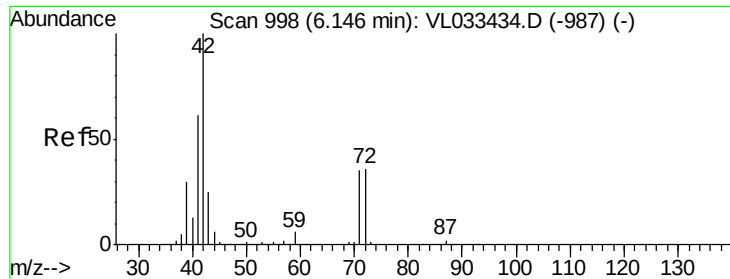
MMDadoda
 4/1/2019 1:22:43 AM



#40
 1,4-Dioxane
 Concen: 0.950 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. 0.02 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
88	100		
58	144.0	107.9	161.9
43	300.9	230.8	346.2
57	1312.7	1035.3	1552.9





#41

Tetrahydrofuran

Concen: 0.918 ppbv

RT: 6.16 min Scan# 1003

Delta R.T. 0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

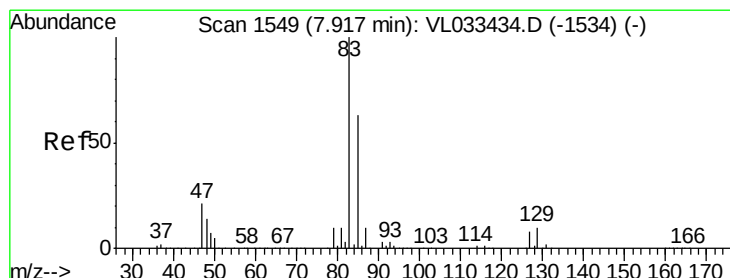
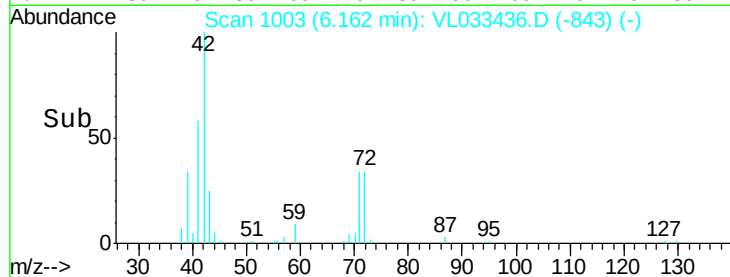
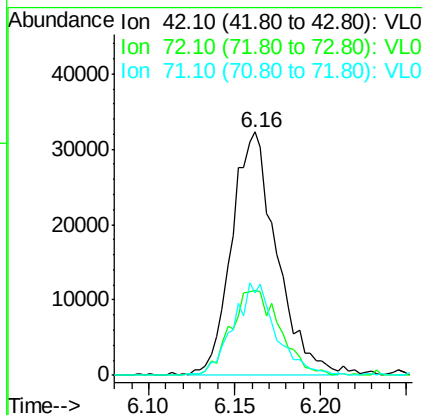
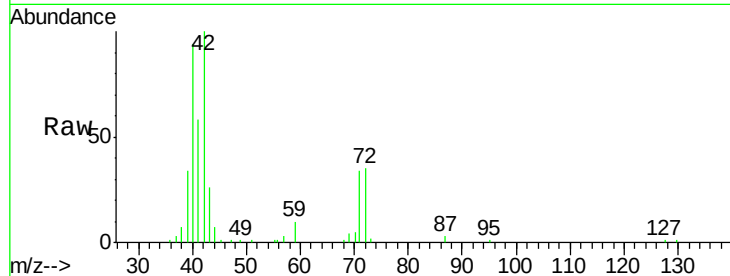
ClientSampleId :

VSTDIC001

Tot Ion:	42	Resp:	58888
Ion Ratio	Lower	Upper	
42	100		
72	38.5	31.6	47.4
71	36.3	29.9	44.9

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#42

Bromodichloromethane

Concen: 0.973 ppbv

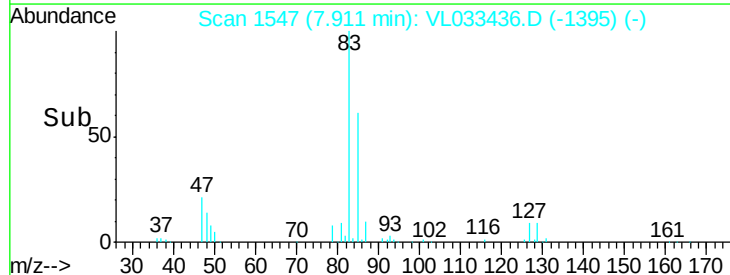
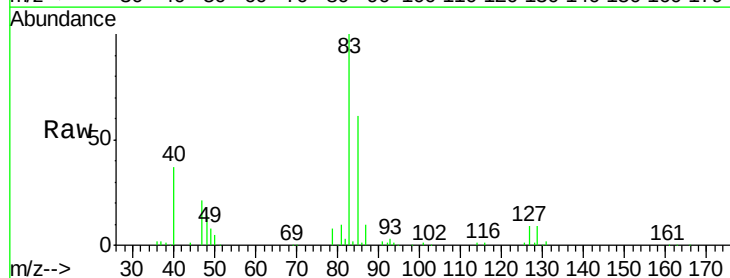
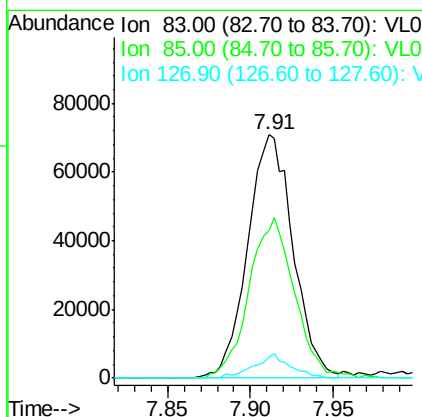
RT: 7.91 min Scan# 1547

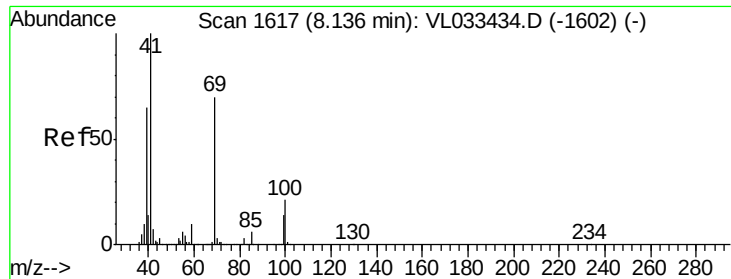
Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion:	83	Resp:	135161
Ion Ratio	Lower	Upper	
83	100		
85	60.6	51.8	77.6
127	8.7	6.2	9.2





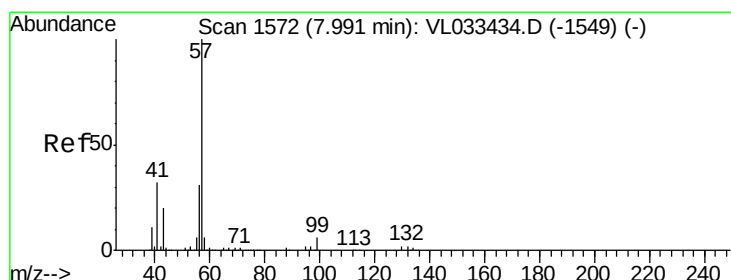
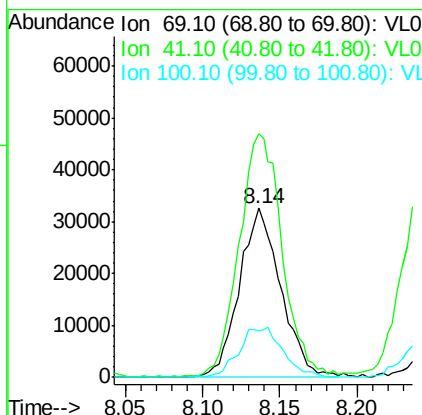
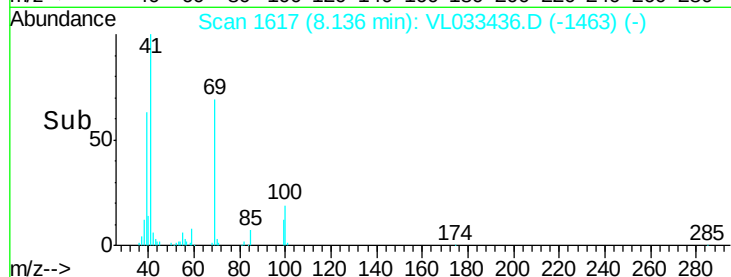
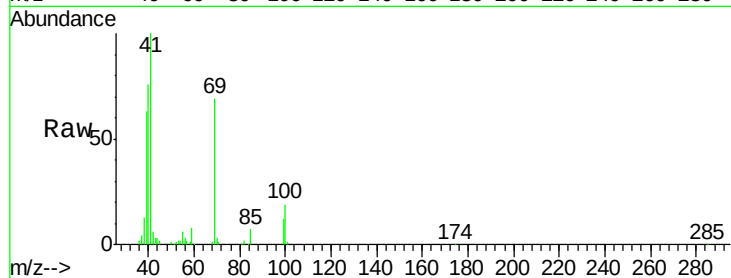
#43
Methyl Methacrylate
Concen: 0.953 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	150.3	119.5	179.3	
100	31.1	24.4	36.6	

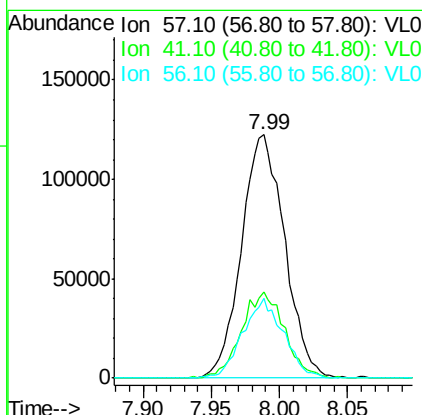
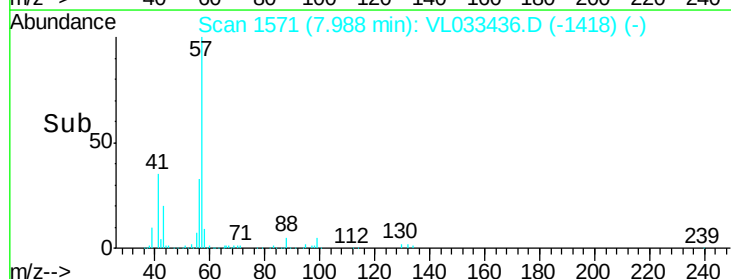
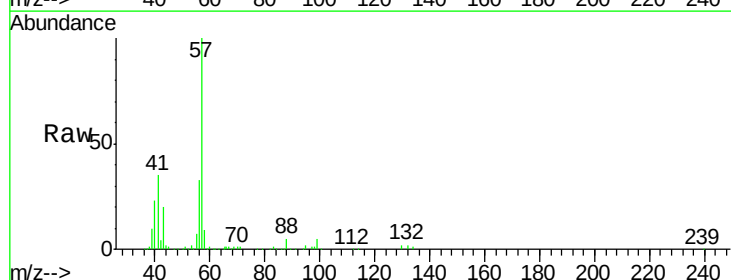
Manual Integrations
APPROVED

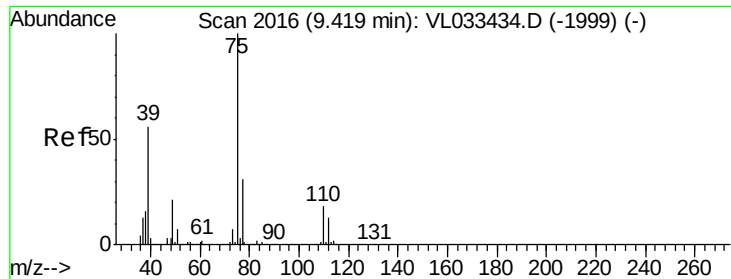
MMDadoda
4/1/2019 1:22:43 AM



#44
2,2,4-Trimethylpentane
Concen: 0.992 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.2	26.0	39.0	
56	30.9	24.6	36.8	





#45

t-1,3-Dichloropropene

Concen: 0.811 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 63897

Ion Ratio Lower Upper

75 100

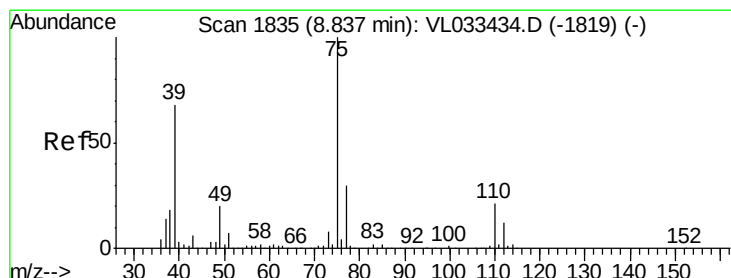
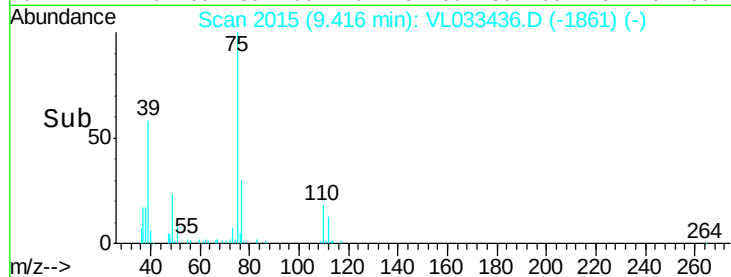
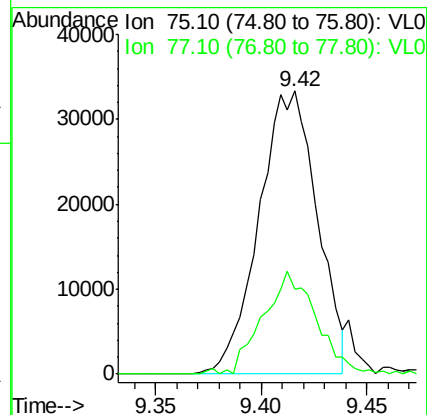
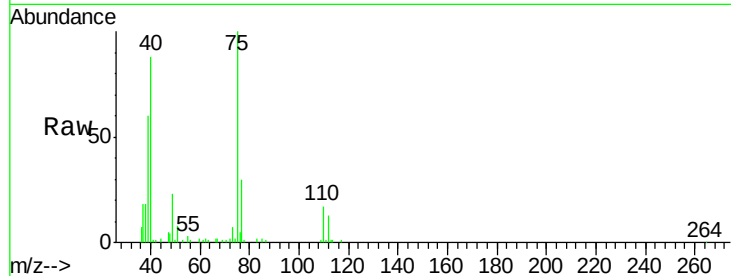
77 31.4 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

4/1/2019 1:22:43 AM



#46

cis-1,3-Dichloropropene

Concen: 0.863 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

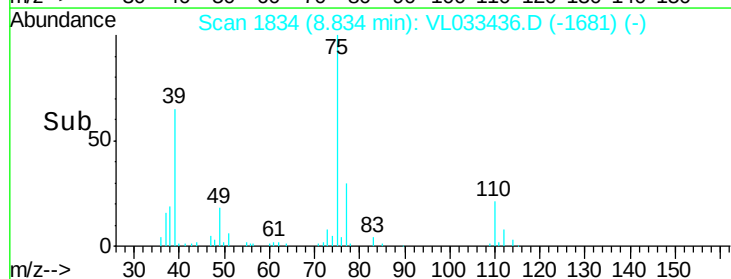
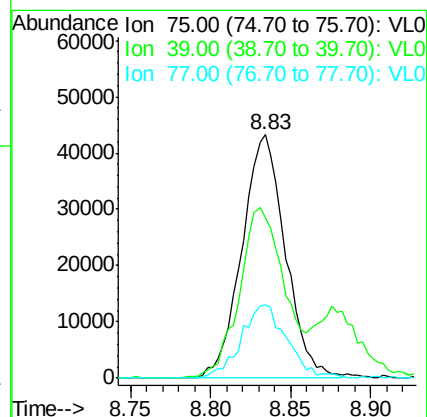
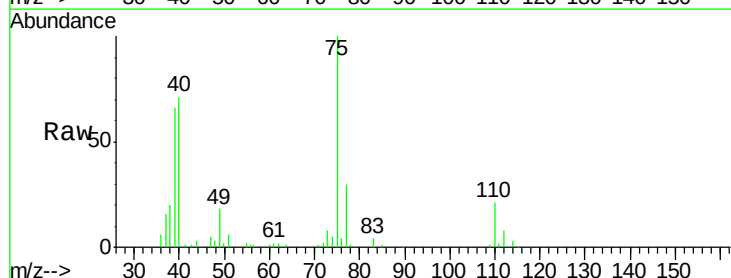
Tgt Ion: 75 Resp: 80043

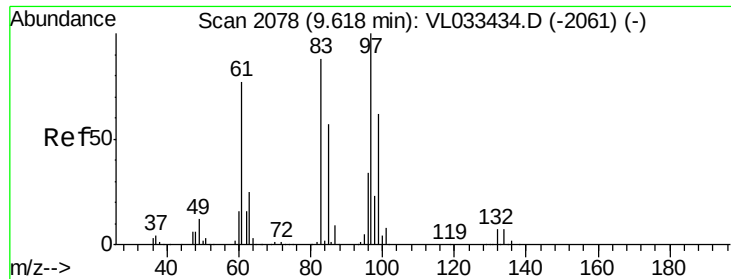
Ion Ratio Lower Upper

75 100

39 65.1 55.0 82.6

77 30.1 24.5 36.7





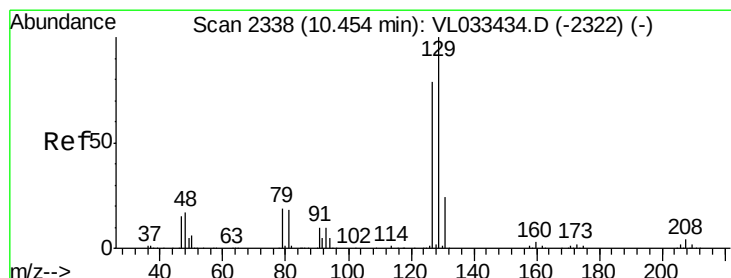
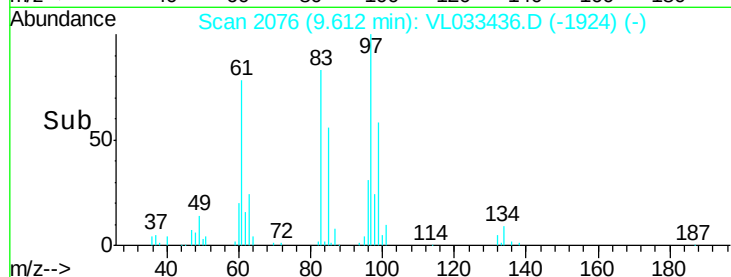
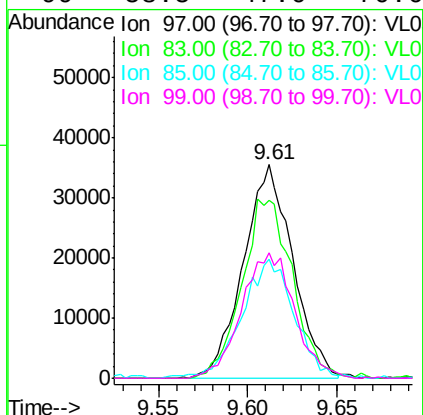
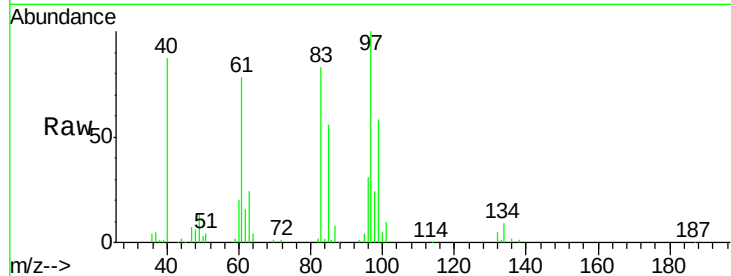
#47
 1,1,2-Trichloroethane
 Concen: 1.015 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
97	100		
83	83.4	67.4	101.0
85	54.3	43.0	64.4
99	58.5	47.0	70.6

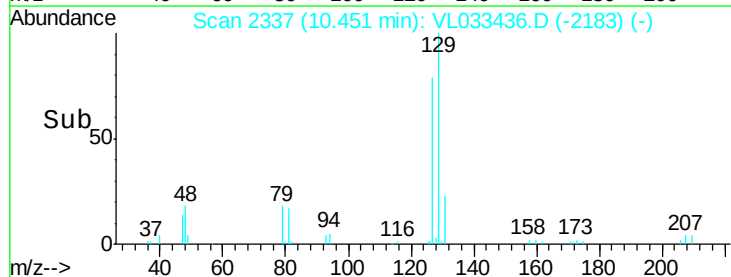
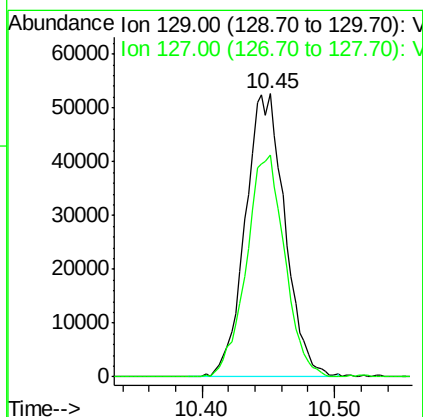
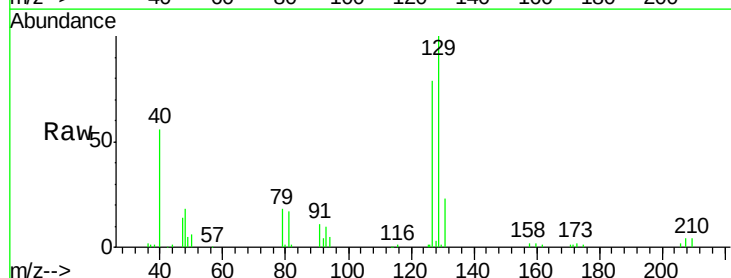
Manual Integrations
 APPROVED

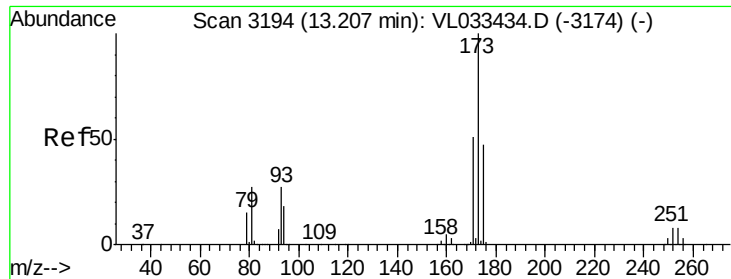
MMDadoda
 4/1/2019 1:22:43 AM



#48
 Dibromochloromethane
 Concen: 0.957 ppbv m
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.9	116.6#





#49

Bromoform

Concen: 0.868 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

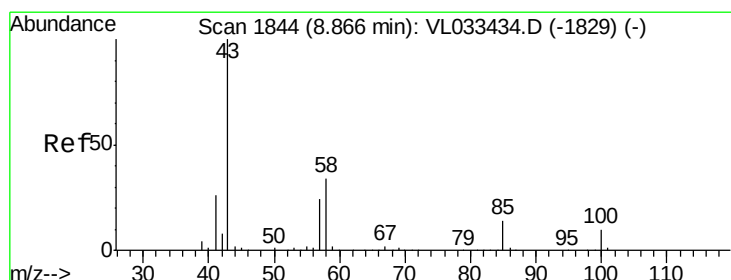
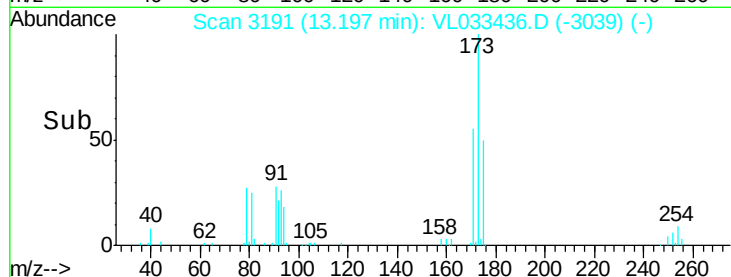
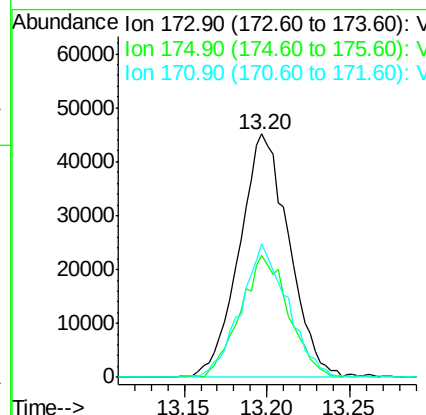
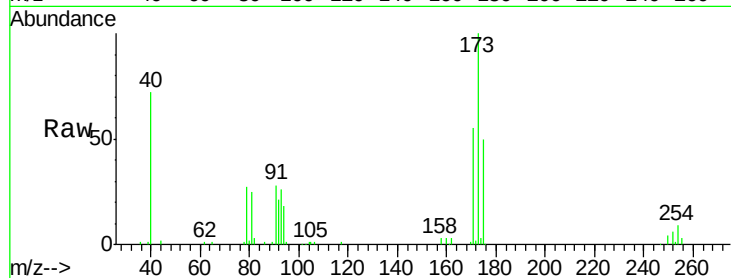
ClientSampleId :

VSTDIC001

Tot Ion:	173	Resp:	93607
Ion	Ratio	Lower	Upper
173	100		
175	49.1	39.0	58.6
171	52.0	41.7	62.5

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#50

4-Methyl-2-Pentanone

Concen: 0.956 ppbv

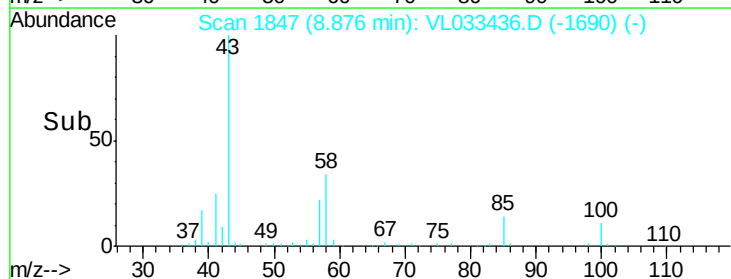
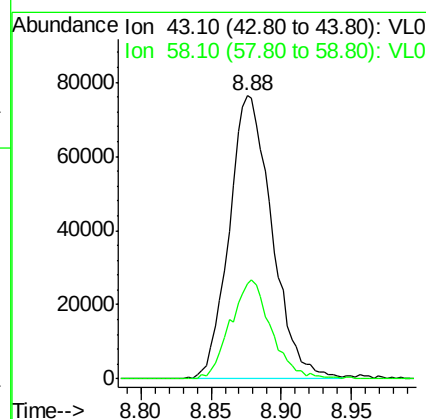
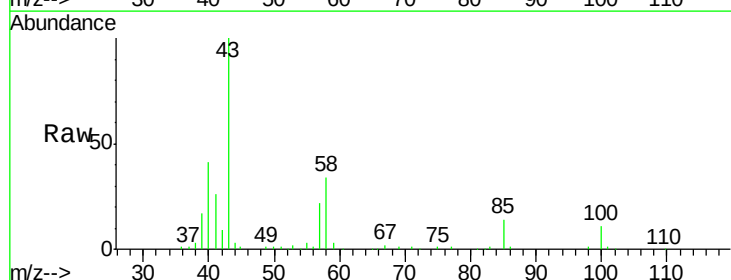
RT: 8.88 min Scan# 1847

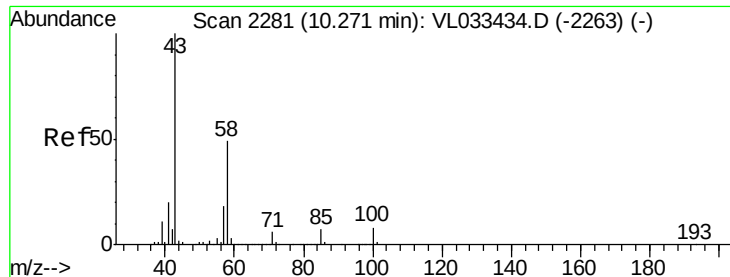
Delta R.T. 0.00 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion:	43	Resp:	162234
Ion	Ratio	Lower	Upper
43	100		
58	33.2	28.4	42.6





#51

2-Hexanone

Concen: 0.828 ppbv

RT: 10.28 min Scan# 2284

Delta R.T. 0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

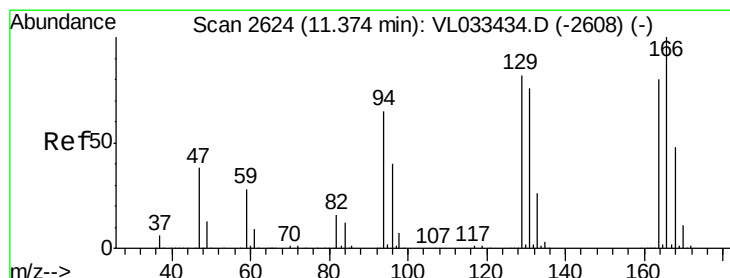
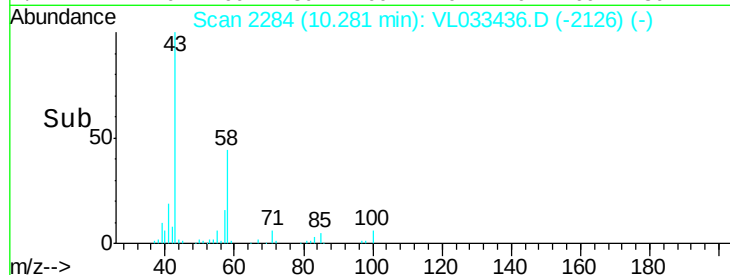
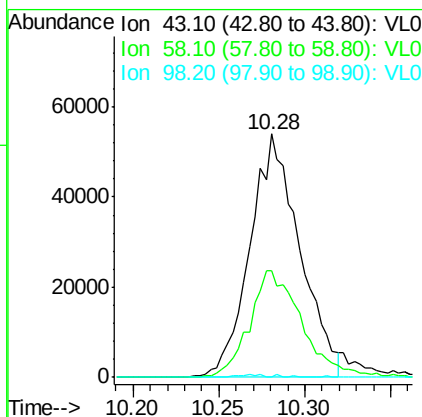
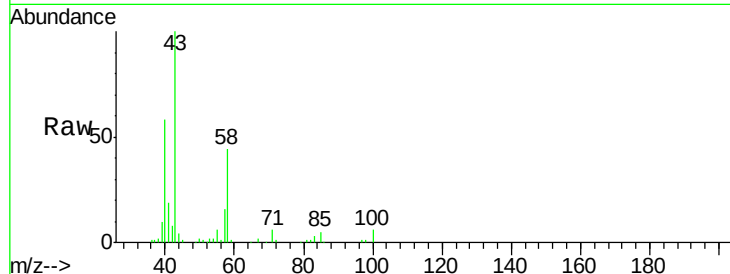
ClientSampleId :

VSTDIC001

Tot Ion:	43	Resp:	108431
Ion	Ratio	Lower	Upper
43	100		
58	46.6	38.0	57.0
98	0.8	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#52

Tetrachloroethene

Concen: 0.878 ppbv

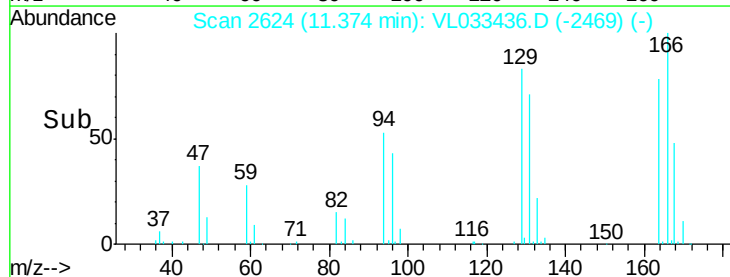
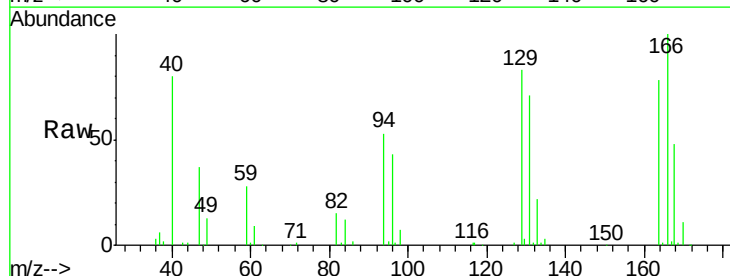
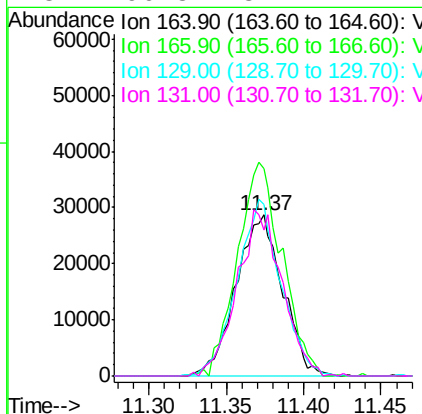
RT: 11.37 min Scan# 2624

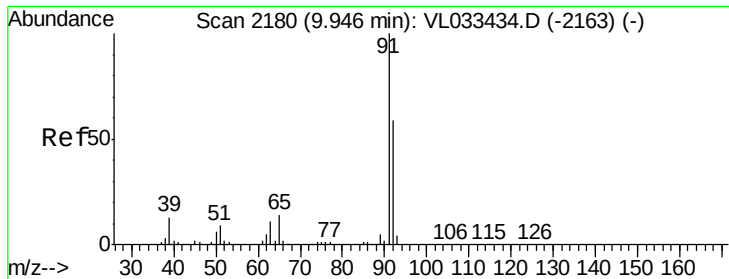
Delta R.T. -0.00 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion:	164	Resp:	59940
Ion	Ratio	Lower	Upper
164	100		
166	128.1	101.5	152.3
129	109.6	82.2	123.2
131	90.8	81.1	121.7





#53

Toluene

Concen: 0.918 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 170944

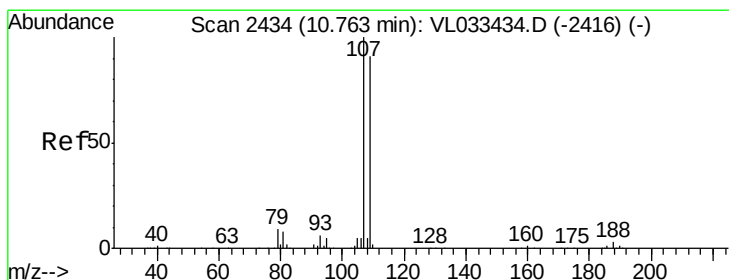
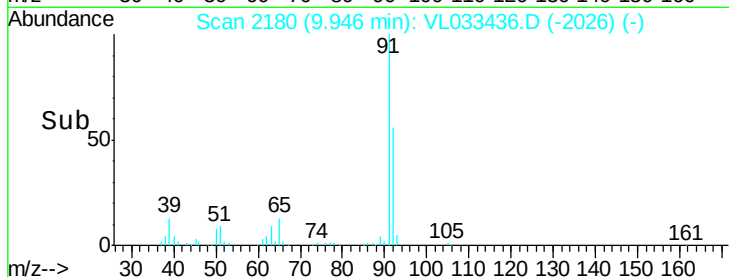
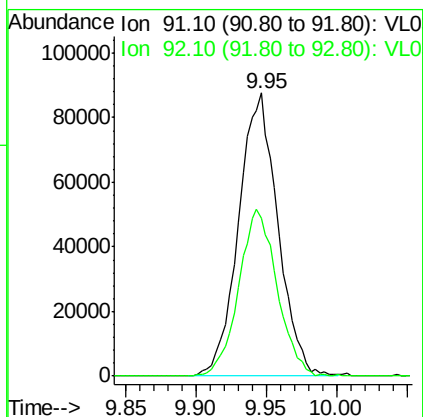
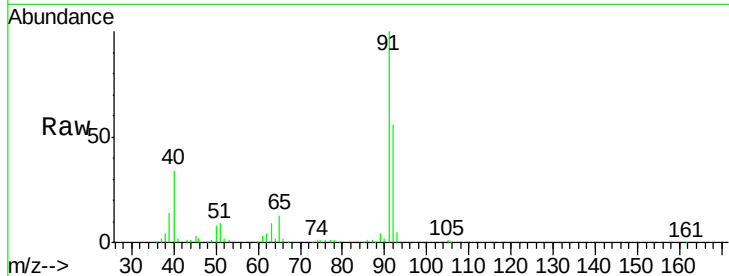
Ion Ratio Lower Upper

91 100

92 57.5 47.4 71.0

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#54

1,2-Dibromoethane

Concen: 0.899 ppbv m

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033436.D

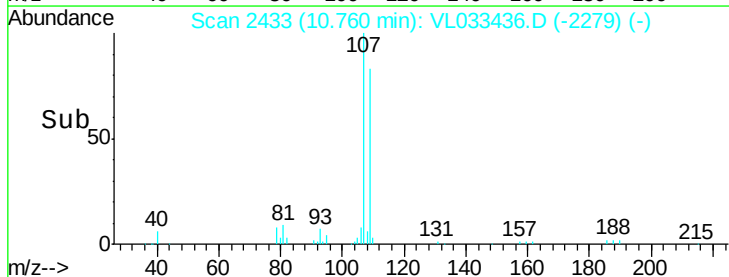
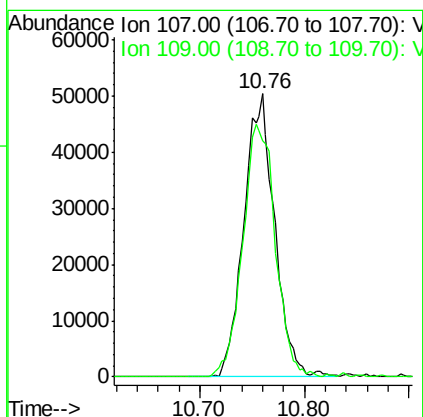
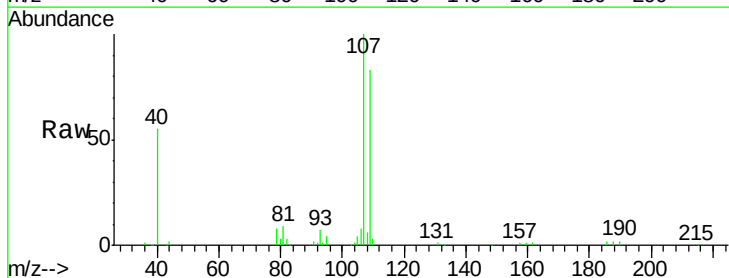
Acq: 25 Mar 2019 11:47

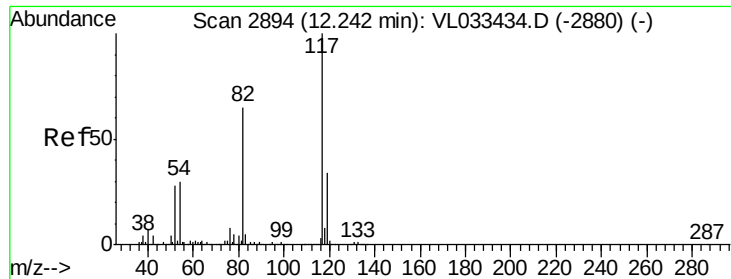
Tgt Ion: 107 Resp: 102969

Ion Ratio Lower Upper

107 100

109 83.3 77.2 115.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:117 Resp: 1850609

Ion Ratio Lower Upper

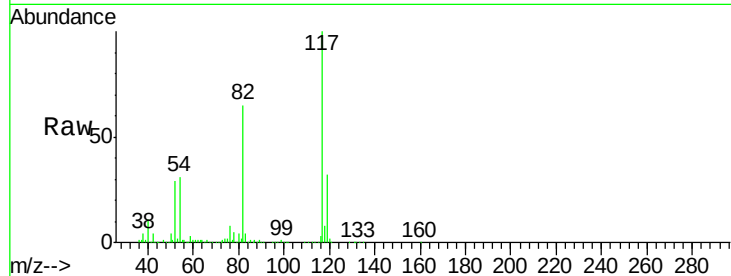
117 100

82 65.1 53.4 80.2

119 34.3 27.3 40.9

Manual Integrations
APPROVED

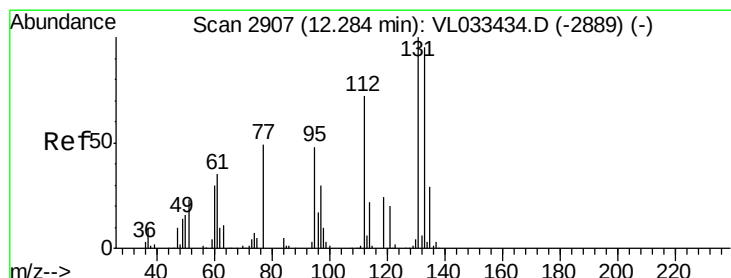
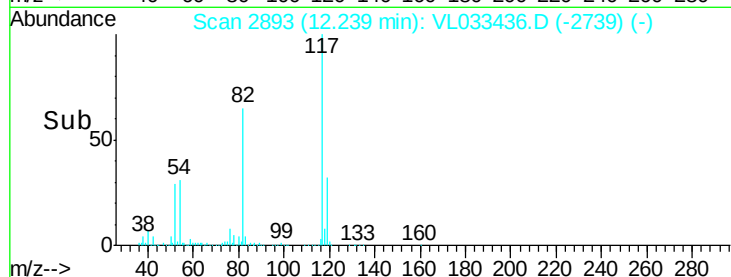
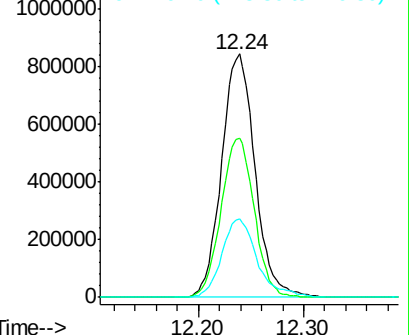
MMDadoda
4/1/2019 1:22:43 AM



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: 1.050 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

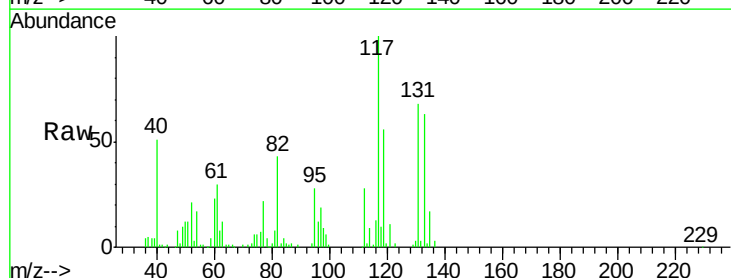
Tgt Ion:131 Resp: 86897

Ion Ratio Lower Upper

131 100

133 93.8 76.7 115.1

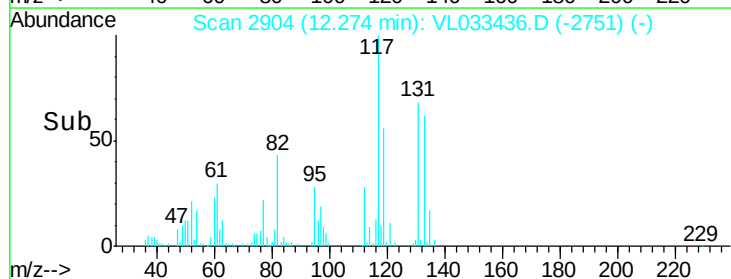
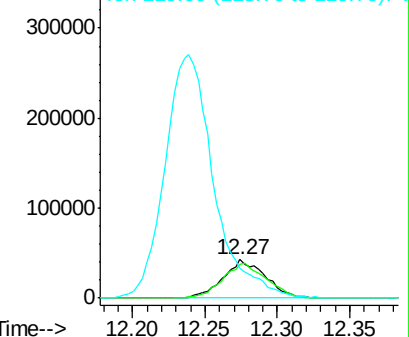
119 731.4 40.3 60.5#

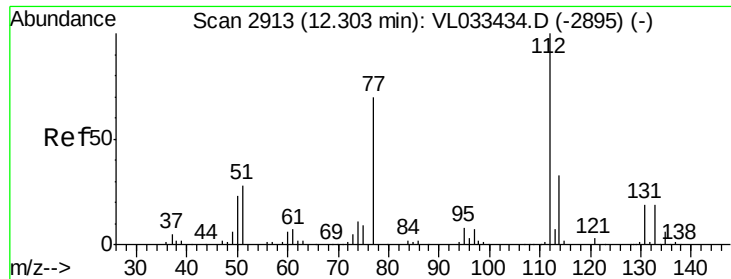


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





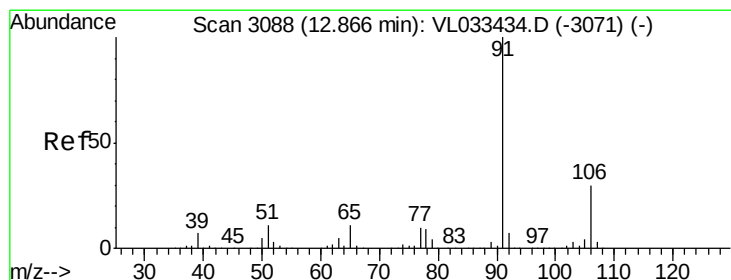
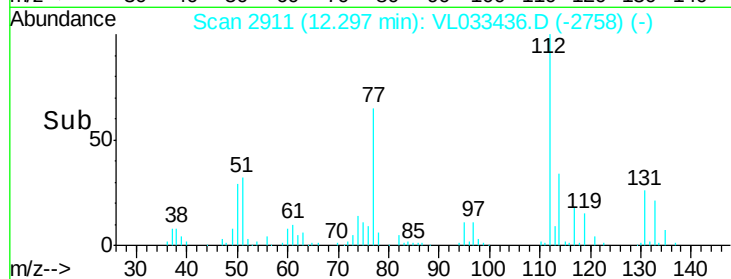
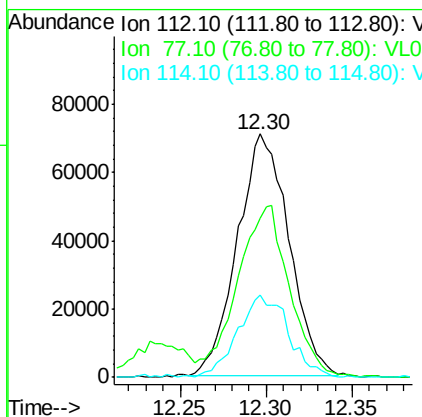
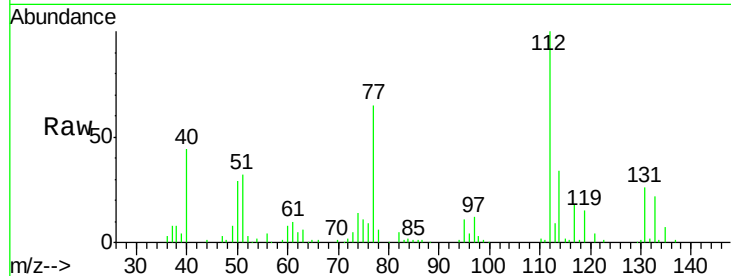
#57
Chlorobenzene
Concen: 1.008 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
112	100		
77	64.8	55.8	83.6
114	33.5	28.6	35.0

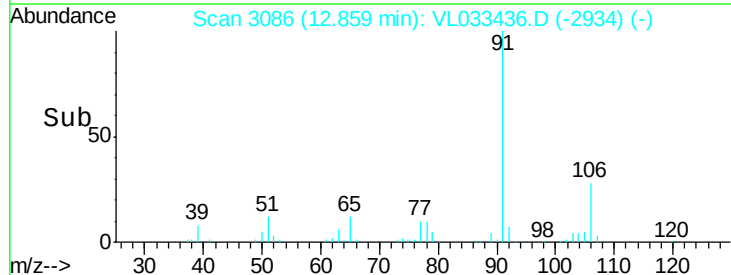
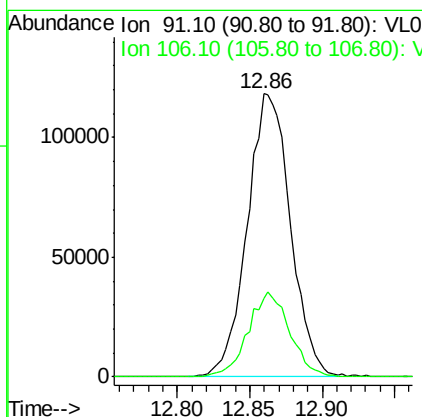
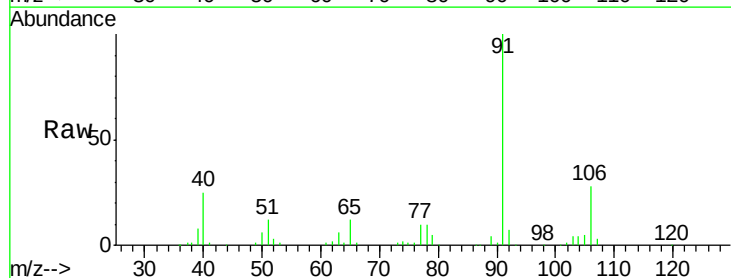
Manual Integrations
APPROVED

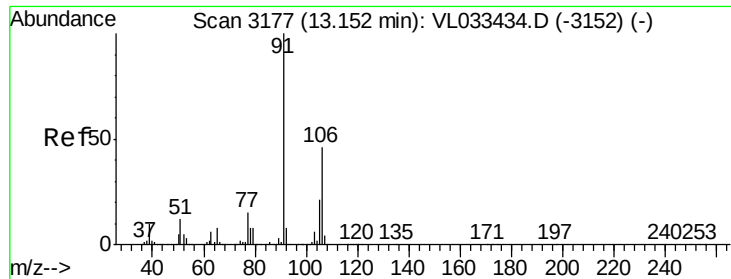
MMDadoda
4/1/2019 1:22:43 AM



#58
Ethyl Benzene
Concen: 0.937 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.0	24.2	36.2





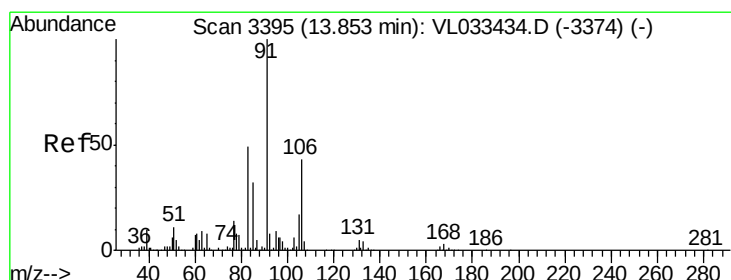
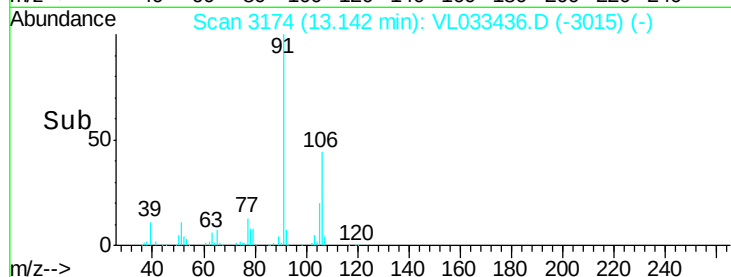
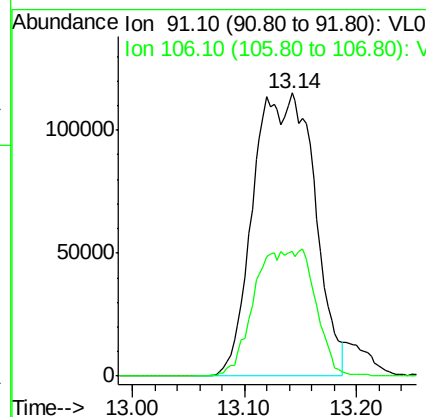
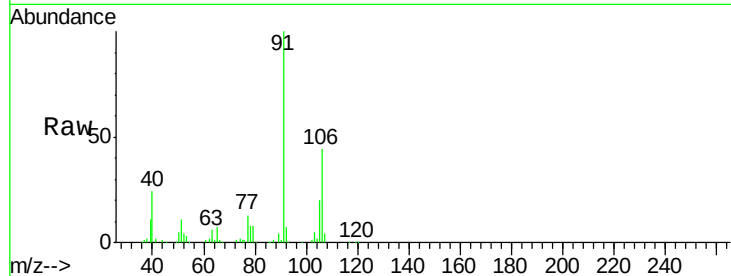
#59
m/p-Xylene
Concen: 1.938 ppbv m
RT: 13.14 min Scan# 3174
Delta R.T. 0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		436018		
106	0.0		0.0	0.0	0.0

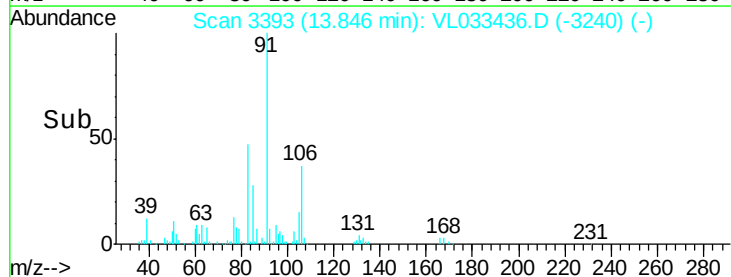
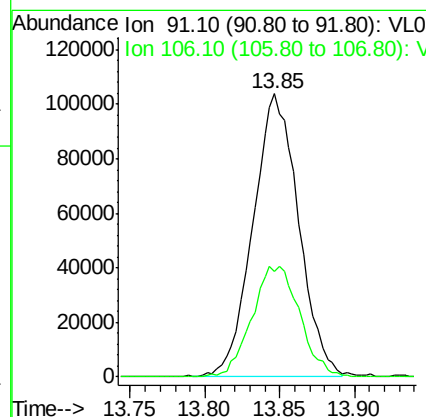
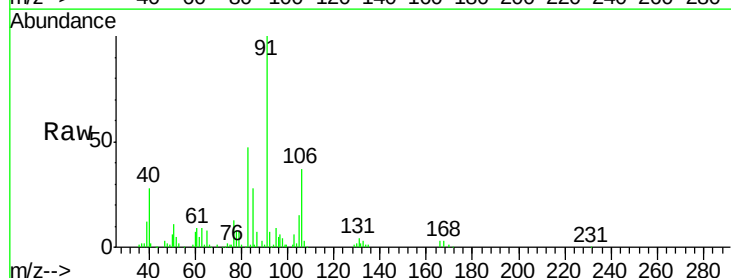
Manual Integrations
APPROVED

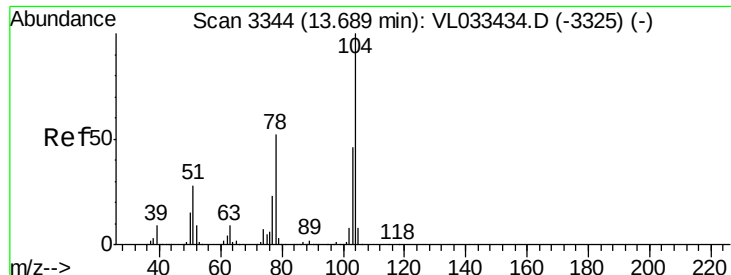
MMDadoda
4/1/2019 1:22:43 AM



#60
o-Xylene
Concen: 0.999 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		219284		
106	41.2		21.3	63.9	





#61

Stvrene

Concen: 0.924 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

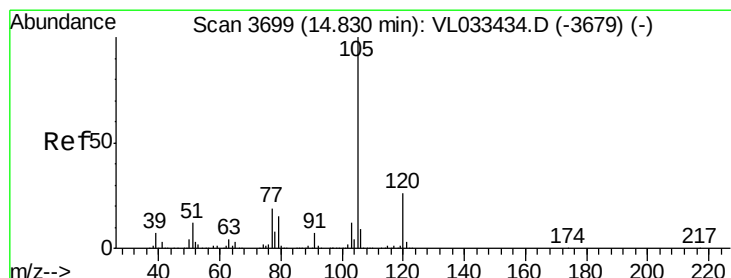
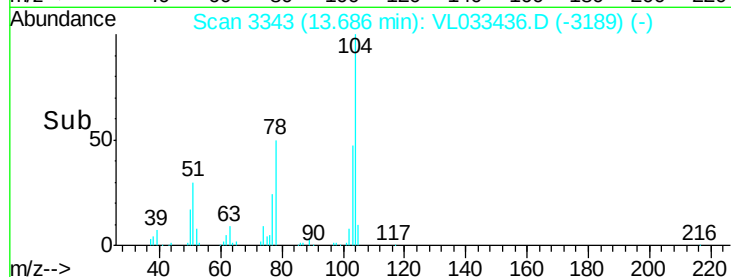
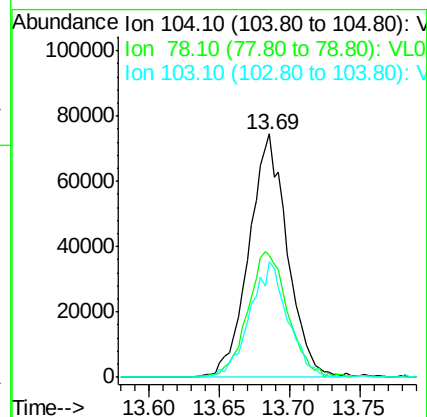
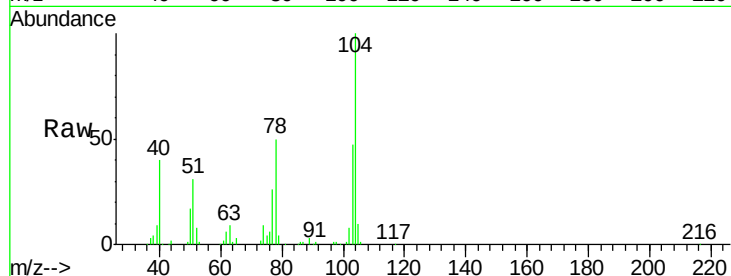
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	142017
Ion Ratio	Lower	Upper	
104	100		
78	54.5	42.7	64.1
103	47.2	38.0	57.0

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



#62

Isopropylbenzene

Concen: 1.006 ppbv

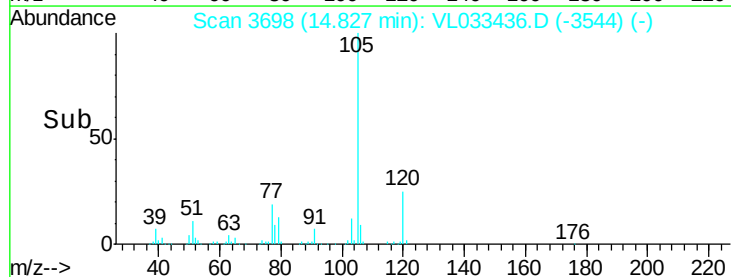
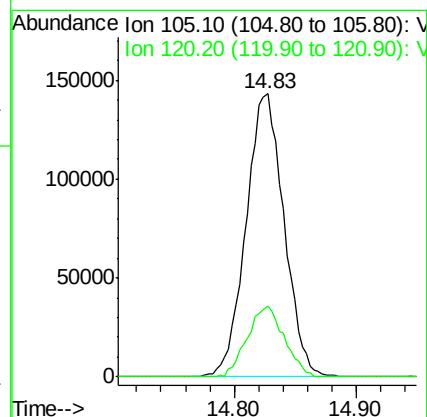
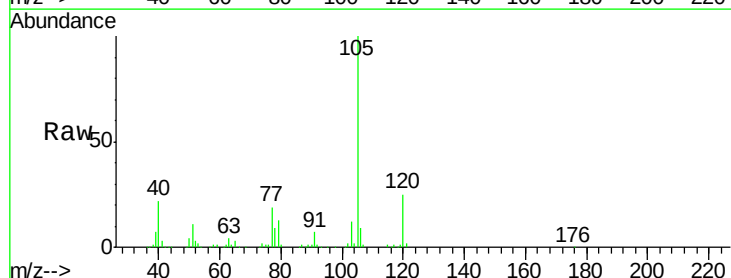
RT: 14.83 min Scan# 3698

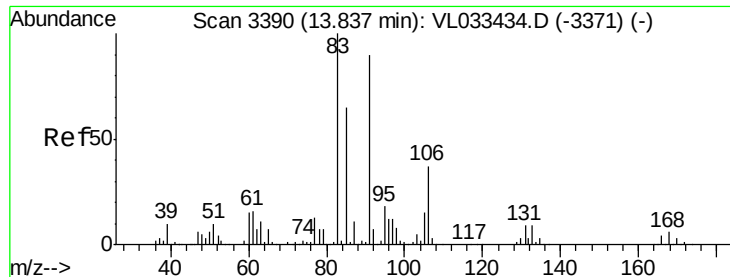
Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion:	105	Resp:	307115
Ion Ratio	Lower	Upper	
105	100		
120	24.4	19.9	29.9





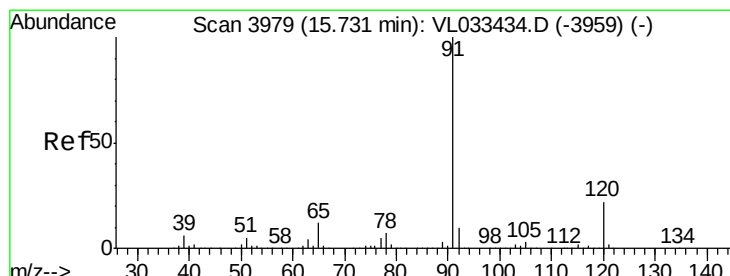
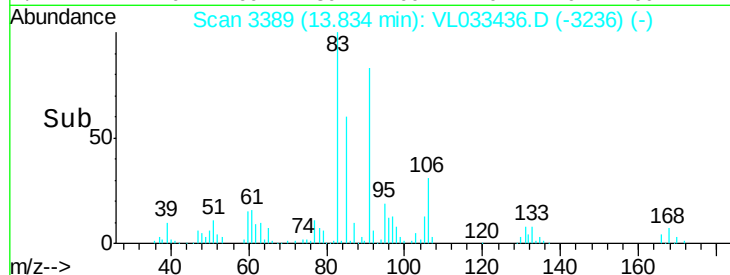
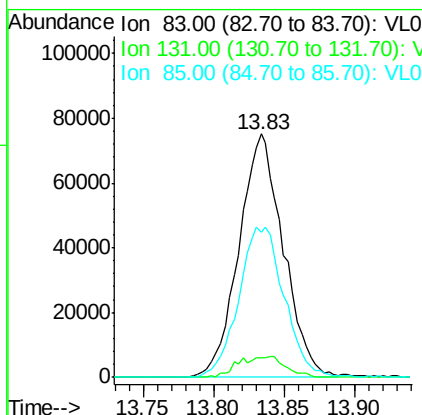
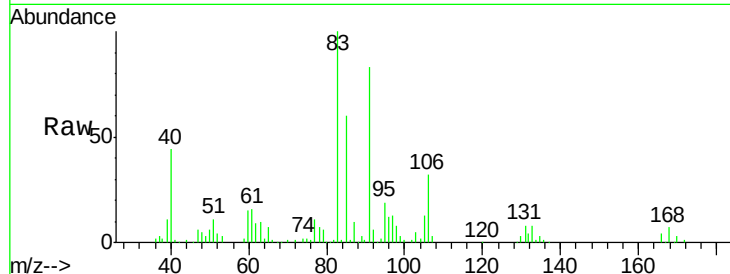
#63
1,1,2,2-Tetrachloroethane
Concen: 1.038 ppbv
RT: 13.83 min Scan# 3389
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.7	14.0
85	63.7	32.5	97.4

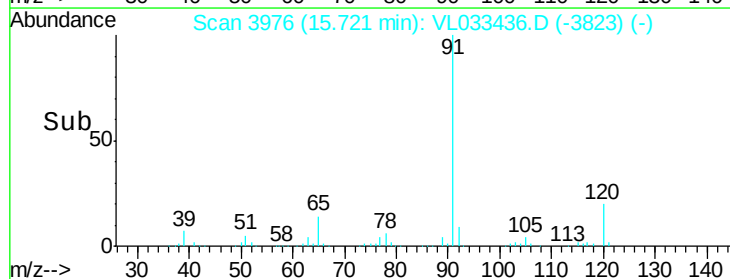
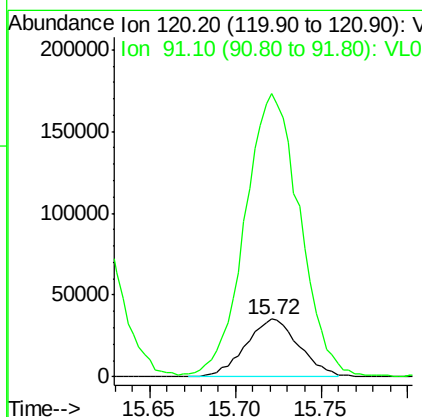
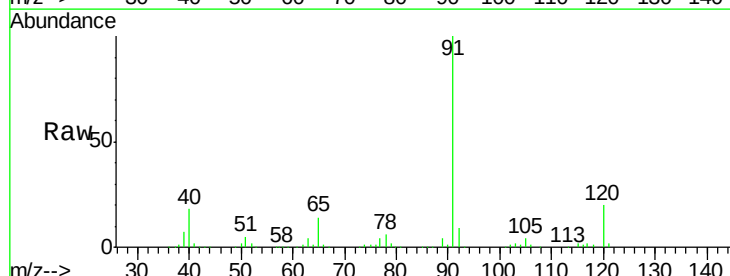
Manual Integrations
APPROVED

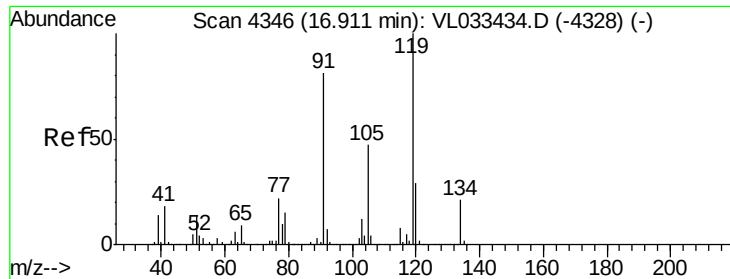
MMDadoda
4/1/2019 1:22:43 AM



#64
n-propylbenzene
Concen: 0.989 ppbv
RT: 15.72 min Scan# 3976
Delta R.T. -0.01 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
120	100		
91	507.7	389.8	584.6





#65

tert-Butylbenzene

Concen: 0.993 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 119 Resp: 272798

Ion Ratio Lower Upper

119 100

91 87.6 67.2 100.8

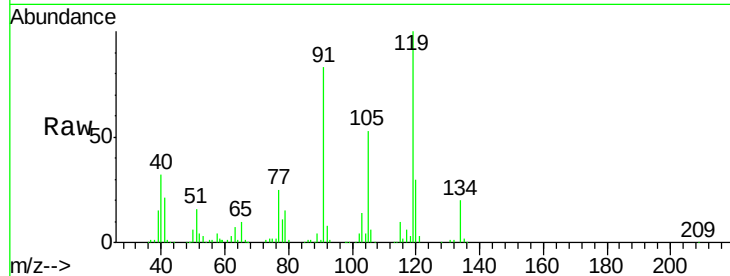
134 20.1 15.4 23.2

Manual Integrations

APPROVED

MMDadoda

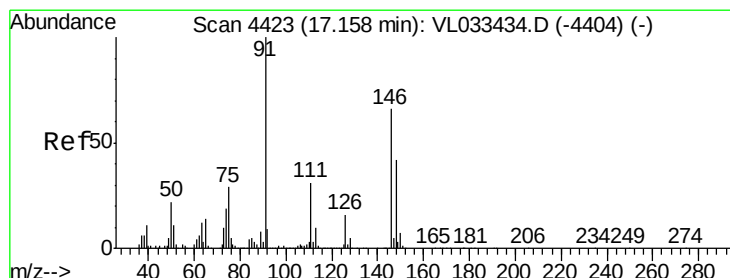
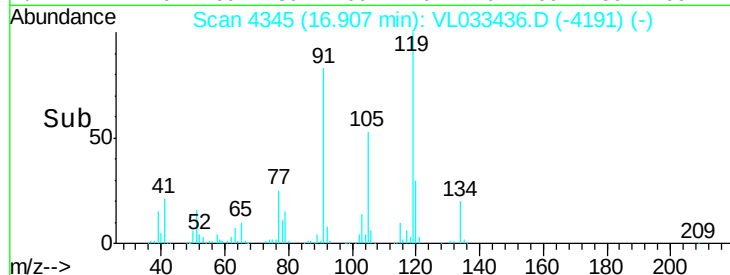
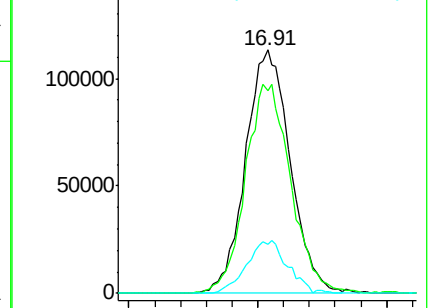
4/1/2019 1:22:43 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.904 ppbv

RT: 17.16 min Scan# 4422

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

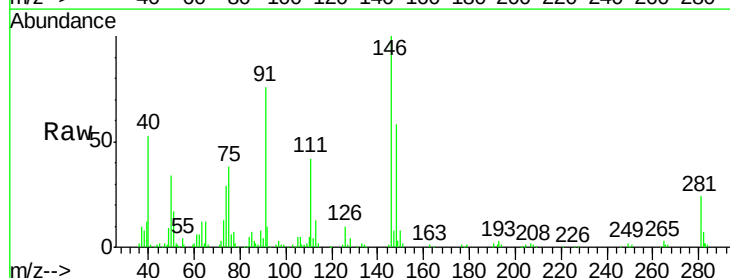
Tgt Ion: 91 Resp: 102628

Ion Ratio Lower Upper

91 100

126 14.9 13.2 19.8

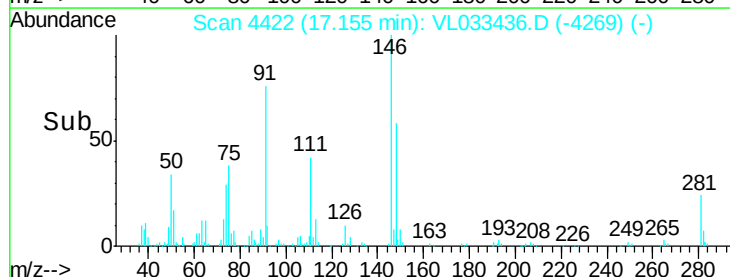
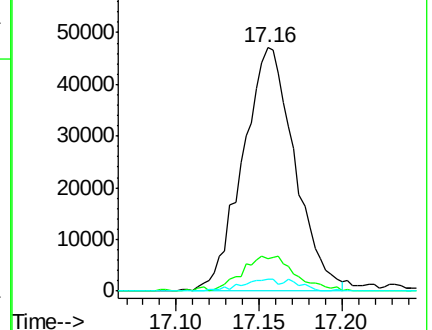
128 5.2 4.2 6.4

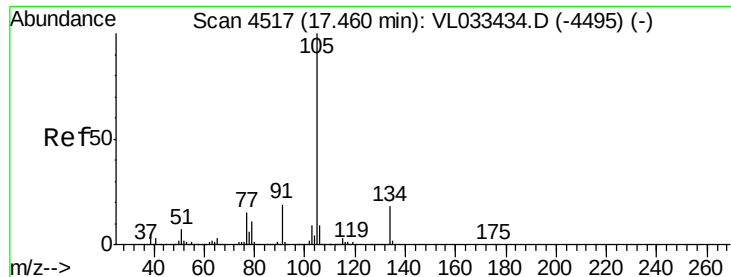


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 1.004 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 390958

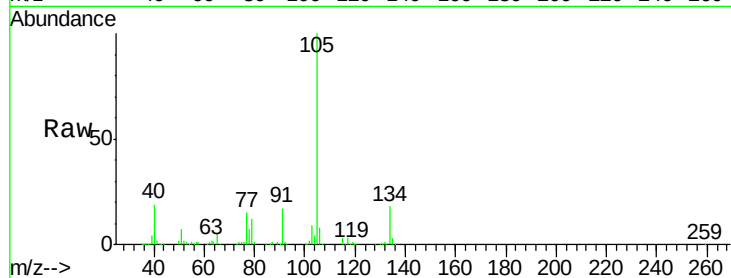
Ion Ratio Lower Upper

105 100

134 17.2 14.2 21.4

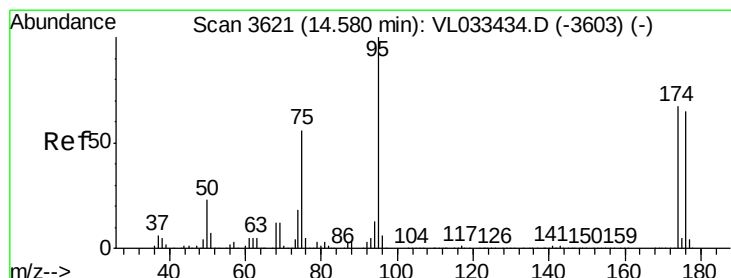
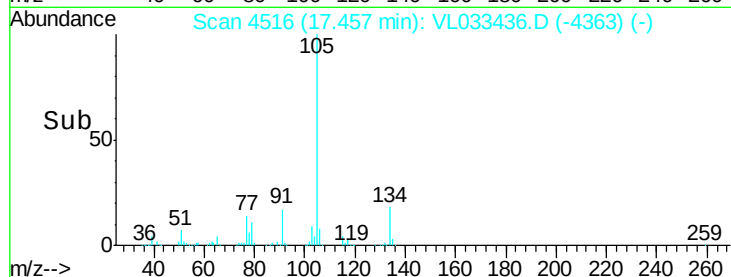
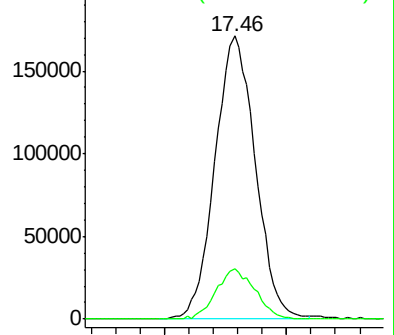
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.762 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

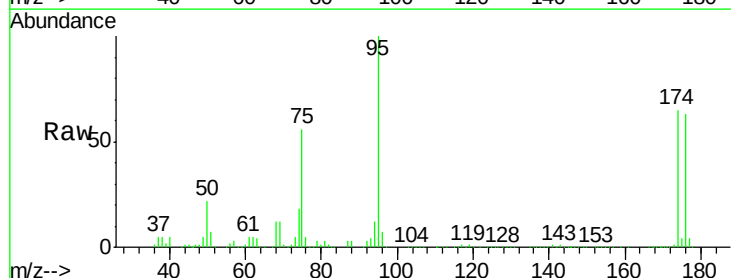
Tgt Ion: 95 Resp: 1475809

Ion Ratio Lower Upper

95 100

174 65.9 51.5 77.3

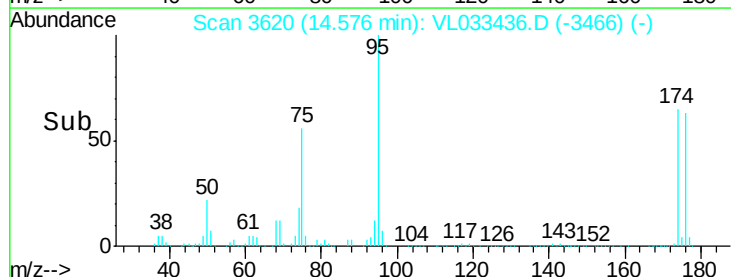
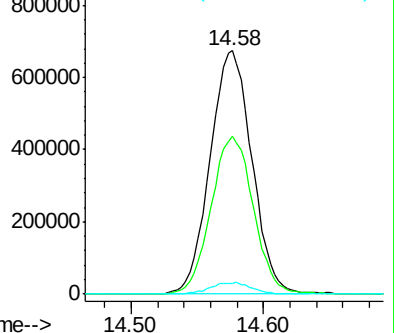
175 4.8 3.8 5.6

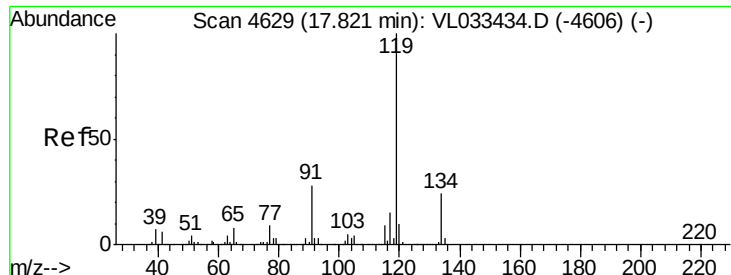


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





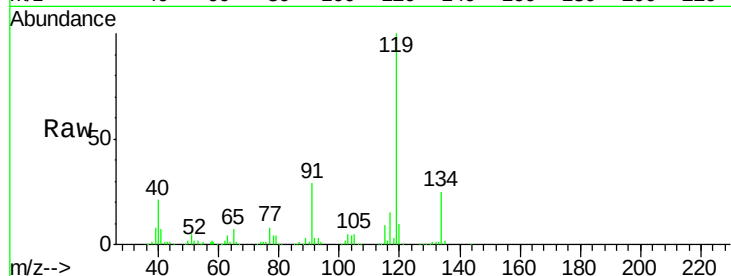
#69
 p-Isopropyltoluene
 Concen: 0.963 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

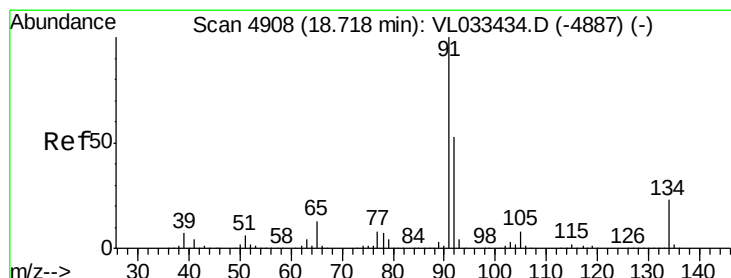
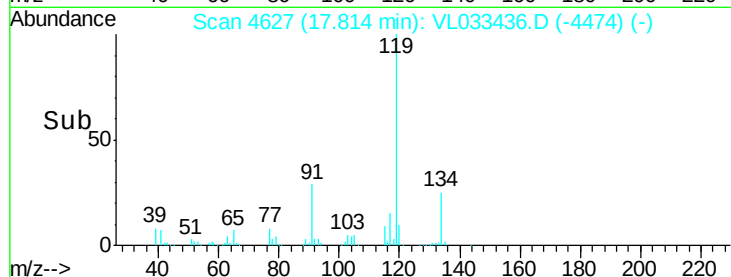
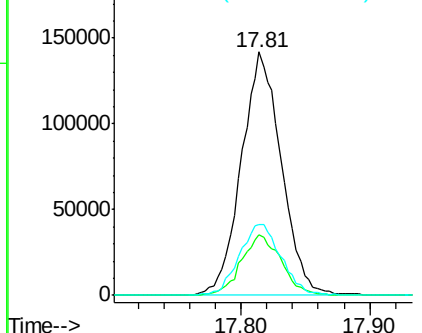
Tot Ion:	119	Resp:	306266
Ion Ratio	Lower	Upper	
119	100		
134	24.8	19.8	29.6
91	30.8	23.4	35.2

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:43 AM

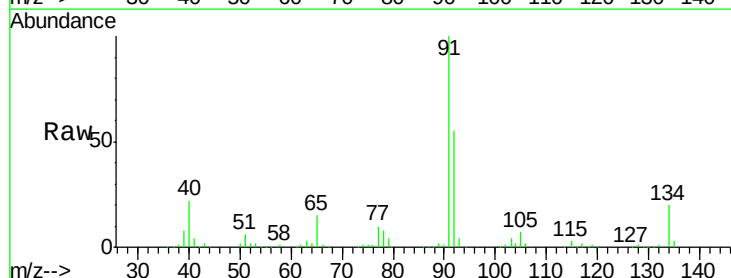


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

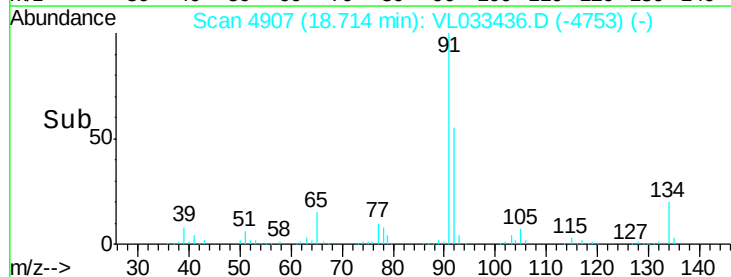
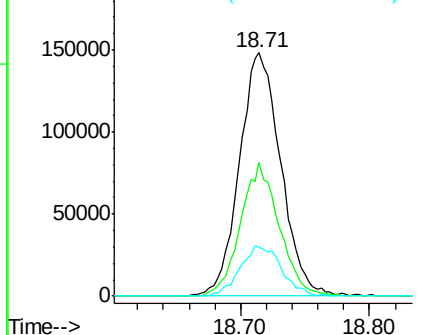


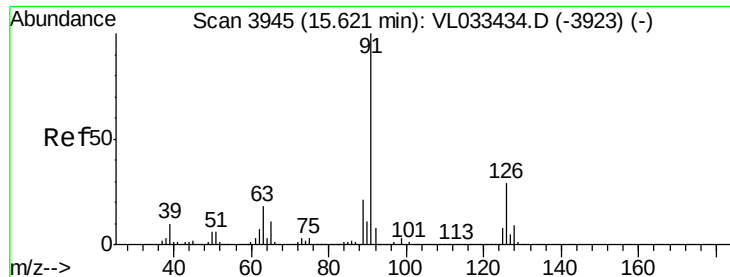
#70
 n-Butylbenzene
 Concen: 0.974 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Tgt Ion:	91	Resp:	330378
Ion Ratio	Lower	Upper	
91	100		
92	51.3	42.8	64.2
134	21.0	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: 0.970 ppbv m

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 230391

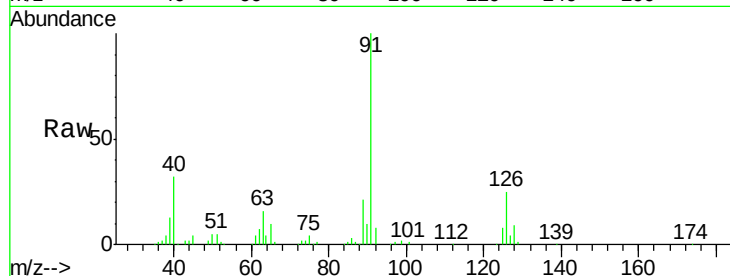
Ion Ratio Lower Upper

91 100

126 29.6 11.6 46.6

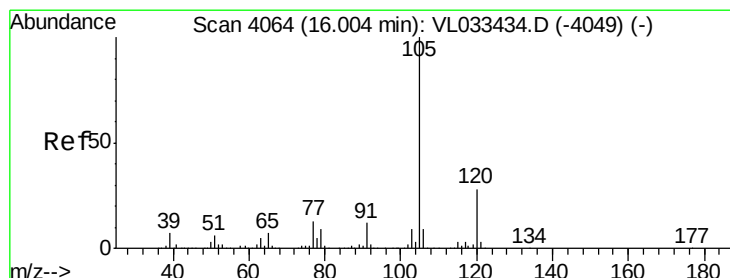
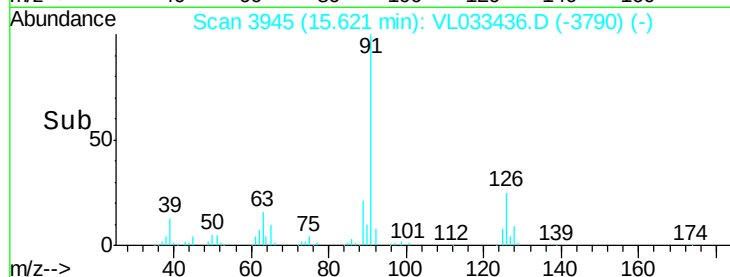
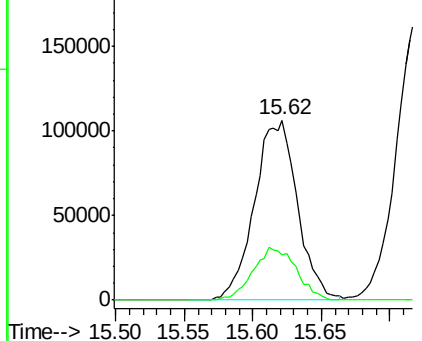
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.946 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion: 105 Resp: 235674

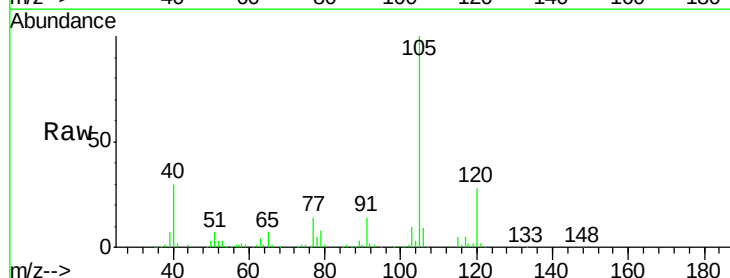
Ion Ratio Lower Upper

105 100

120 28.3 22.9 34.3

91 14.6 10.2 15.2

77 14.6 11.1 16.7

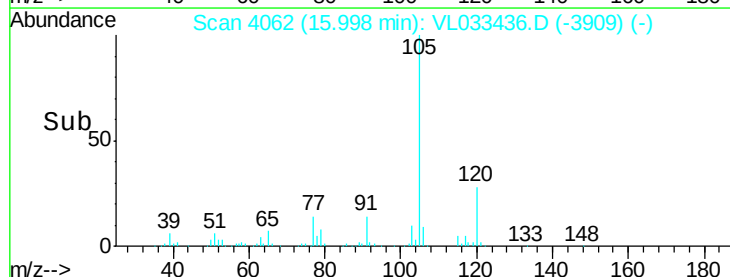
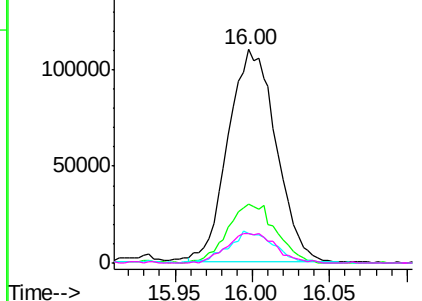


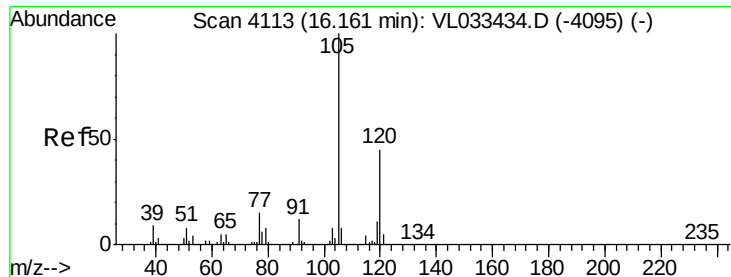
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.974 ppbv

RT: 16.16 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 236472

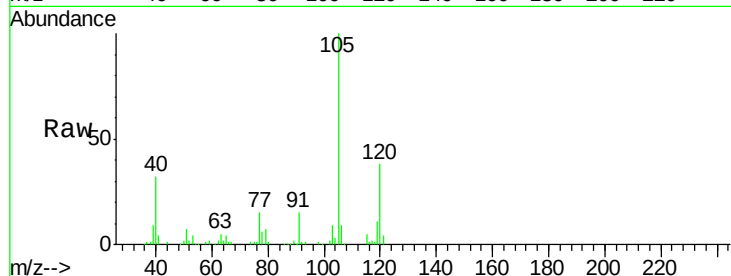
Ion Ratio Lower Upper

105 100

120 38.2 36.2 54.4

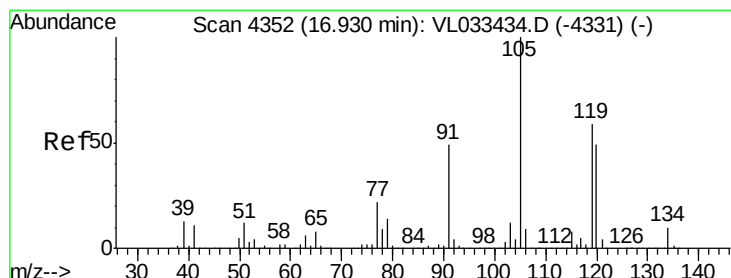
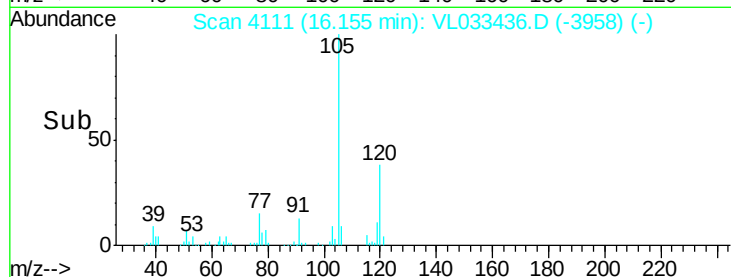
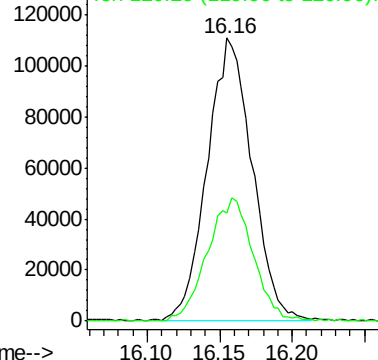
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:43 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: 0.987 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033436.D

Acq: 25 Mar 2019 11:47

Tgt Ion:105 Resp: 253724

Ion Ratio Lower Upper

105 100

120 43.4 37.4 56.2

91 61.2 41.0 61.4

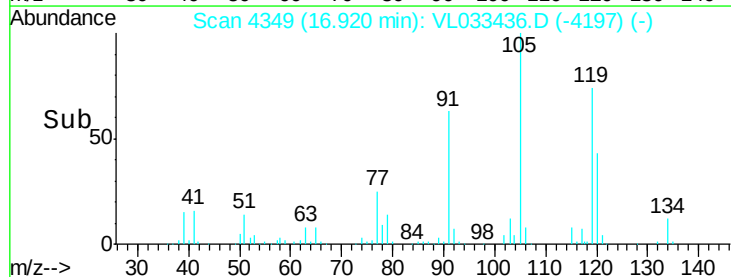
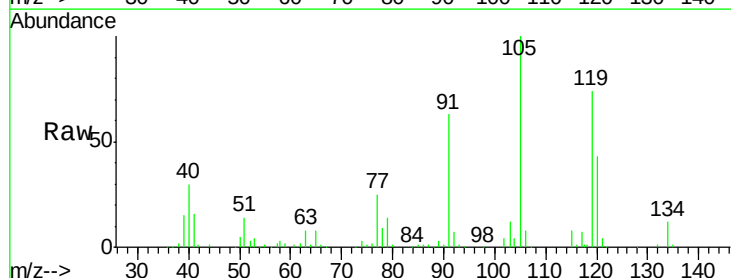
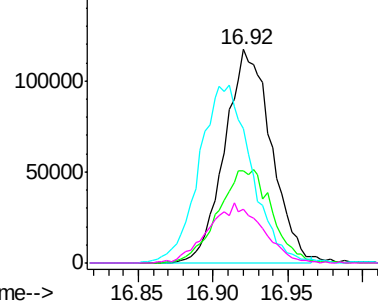
77 24.4 18.5 27.7

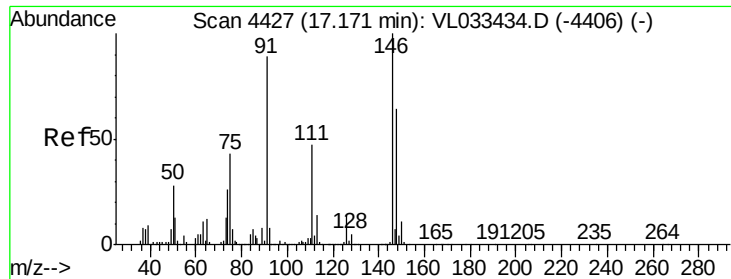
Abundance Ion 105.10 (104.80 to 105.80): V

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





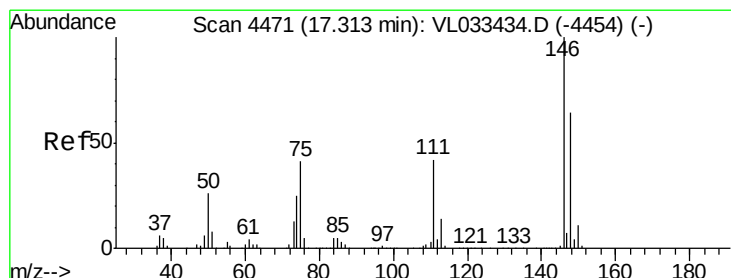
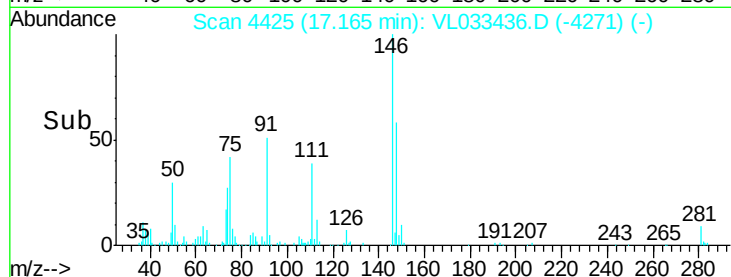
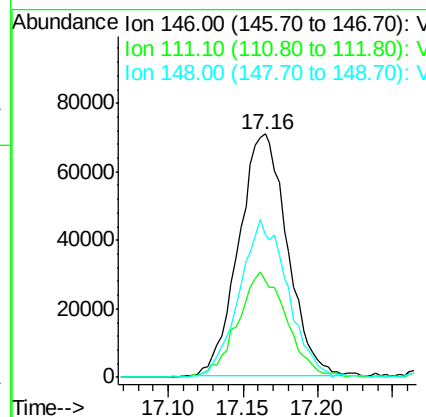
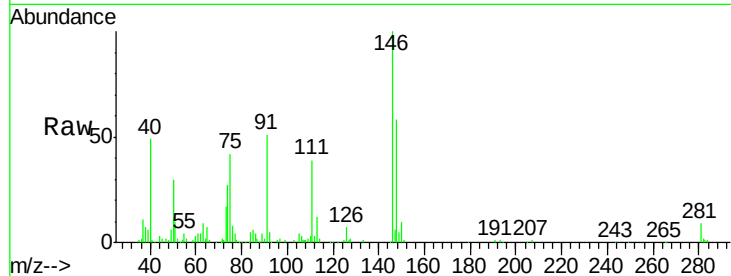
#75
 1,3-Dichlorobenzene
 Concen: 1.048 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.8	68.3
148	65.6	31.9	95.7

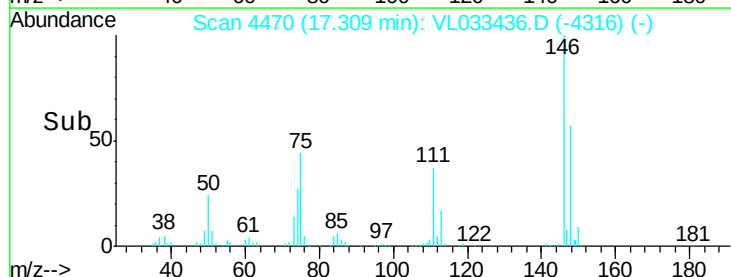
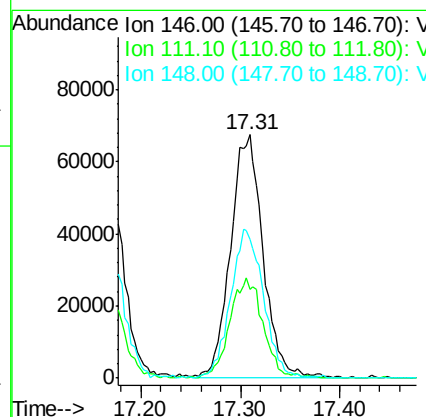
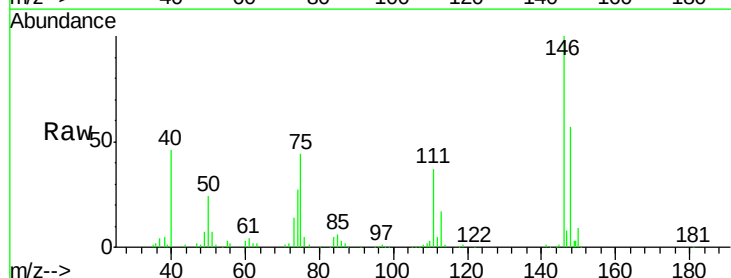
Manual Integrations
 APPROVED

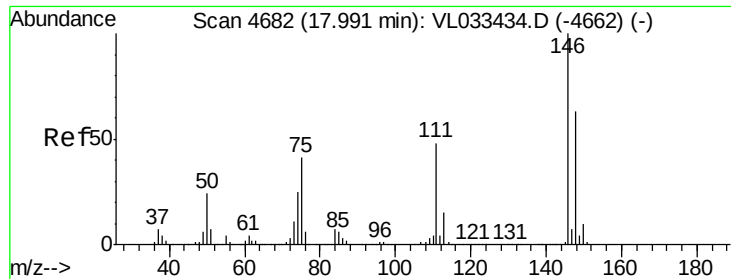
MMDadoda
 4/1/2019 1:22:43 AM



#76
 1,4-Dichlorobenzene
 Concen: 1.047 ppbv m
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.9	65.7
148	62.2	32.1	96.5





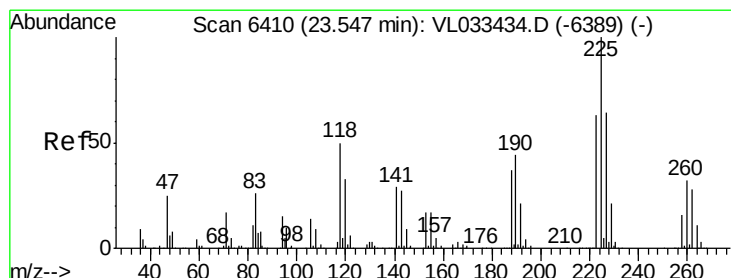
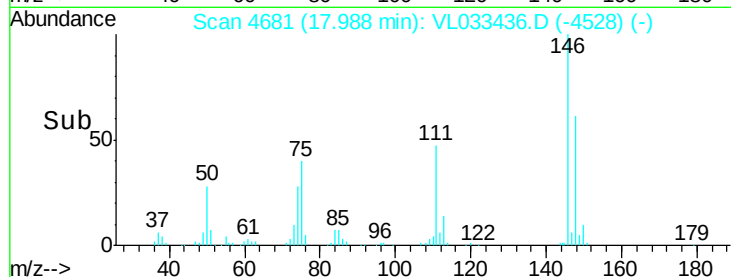
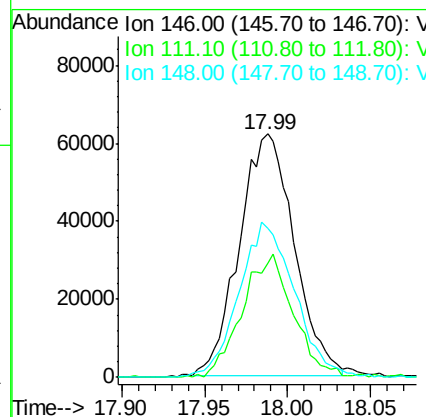
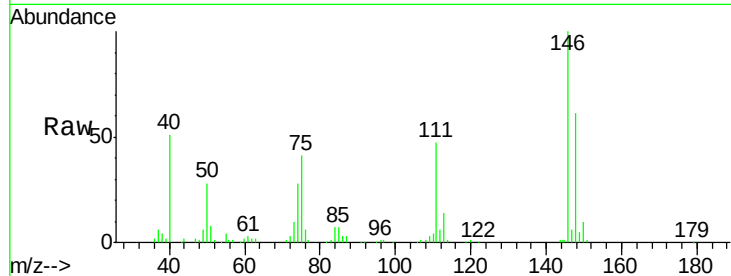
#77
 1,2-Dichlorobenzene
 Concen: 0.990 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.5	70.6
148	65.6	31.9	95.9

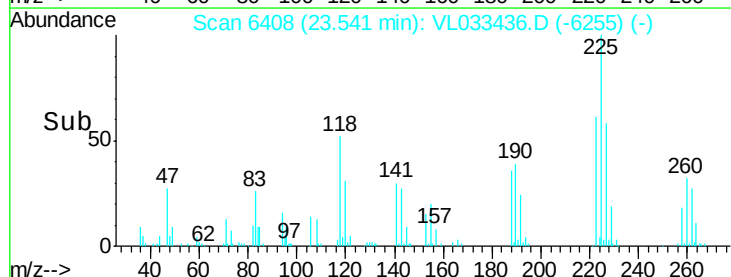
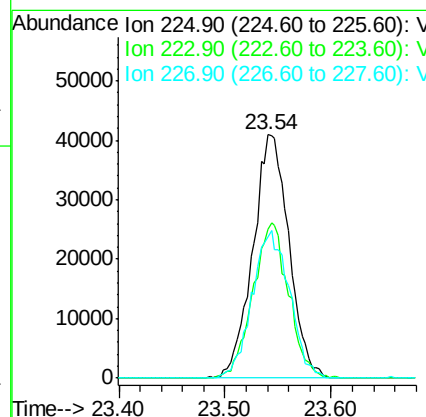
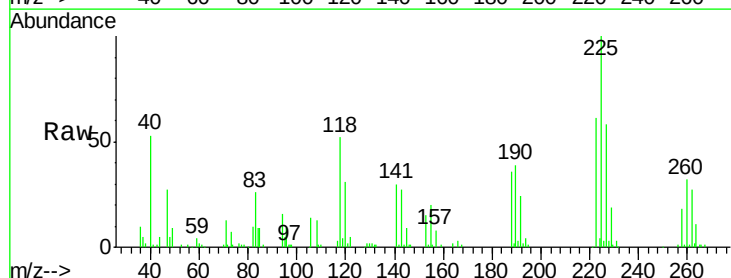
Manual Integrations
 APPROVED

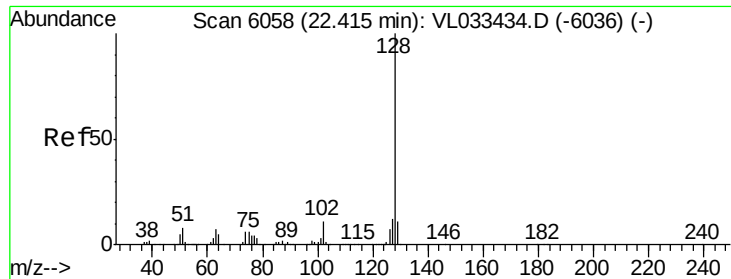
MMDadoda
 4/1/2019 1:22:43 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.123 ppbv m
 RT: 23.54 min Scan# 6408
 Delta R.T. -0.01 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.4	75.6
227	62.5	50.5	75.7





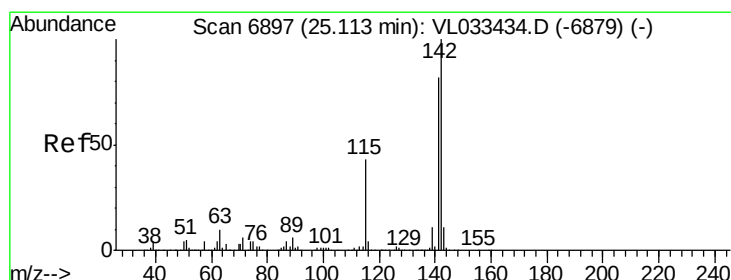
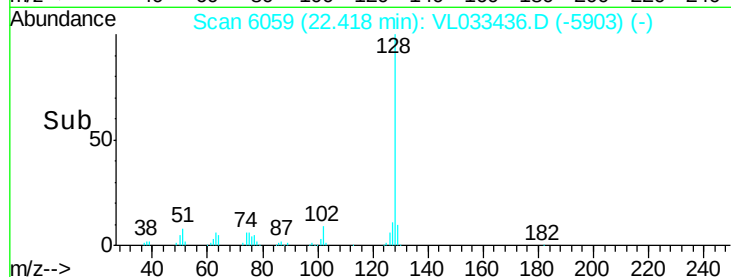
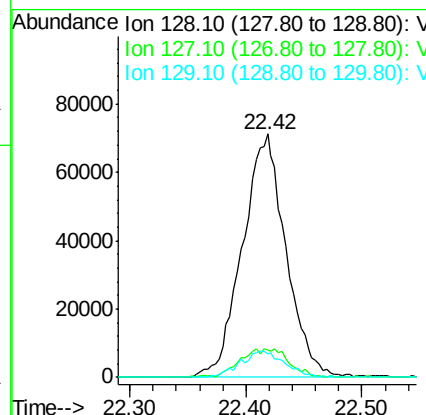
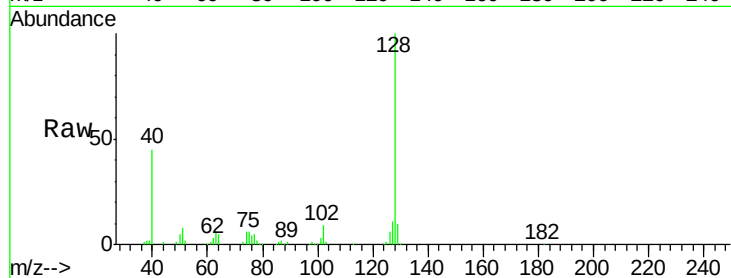
#79
Naphthalene
Concen: 0.748 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. 0.00 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.1	15.1
129	10.2	8.2	12.2

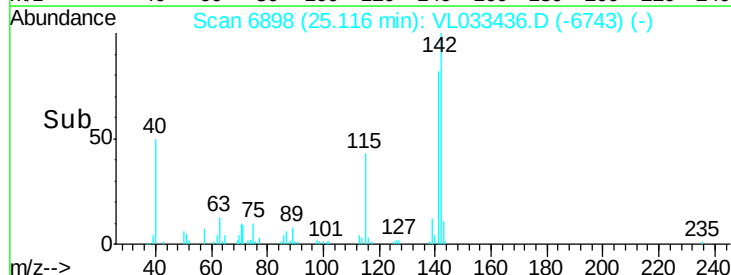
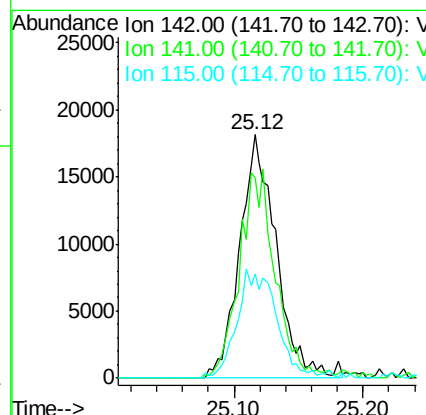
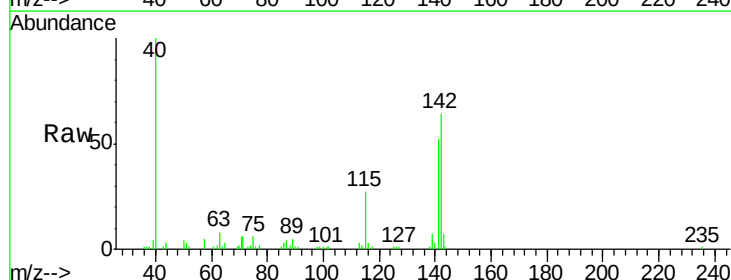
Manual Integrations
APPROVED

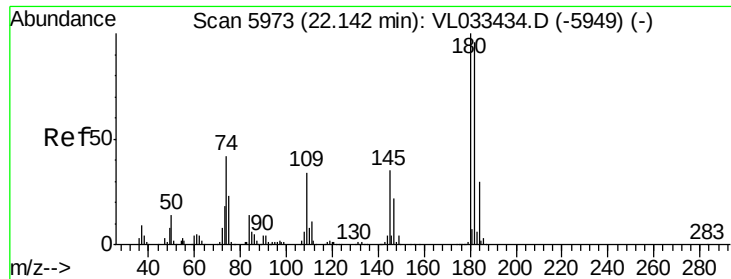
MMDadoda
4/1/2019 1:22:43 AM



#80
Naphthalene, 2-methyl-
Concen: 0.304 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033436.D
Acq: 25 Mar 2019 11:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.7	67.1	100.7
115	47.5	33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.866 ppbv m
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033436.D
 Acq: 25 Mar 2019 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	109387		
182	0.0	76.1	114.1#	
184	0.0	24.6	37.0#	

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:43 AM

