

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033061.D
 Acq On : 4 Jan 2019 9:14
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:00:59 AM

Quant Time: Jan 04 10:06:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1627308	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3944834	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4444748m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	3370965	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1282852	3.535	ppbv	99
3) Chlorodifluoromethane	3.01	51	1289247	6.509	ppbv	99
4) Chloromethane	3.17	50	728170	6.325	ppbv	96
5) Vinyl Chloride	3.29	62	748228	6.120	ppbv	99
6) Bromomethane	3.52	94	672333	9.034	ppbv	97
7) Chloroethane	3.60	64	382671	9.109	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1864414	6.450	ppbv	99
9) Propene	3.04	41	511777	6.658	ppbv	100
10) Heptane	8.25	43	1850981	9.414	ppbv	100
11) Trichlorofluoromethane	4.00	101	2704980	8.474	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1806156	8.372	ppbv	99
13) Ethanol	3.65	45	211941	7.078	ppbv	94
14) Bromoethene	3.79	108	845054	9.197	ppbv	99
15) Acetone	3.90	43	1758891	8.264	ppbv	100
16) 1,3-Butadiene	3.36	39	590964	6.373	ppbv	94
17) tert-Butyl alcohol	4.36	59	484110	10.183	ppbv	99
18) 1,1-Dichloroethene	4.35	96	854098	8.835	ppbv	97
19) Isopropyl Alcohol	4.02	45	1404274	9.876	ppbv	99
20) Methylene Chloride	4.41	84	722858	7.675	ppbv	99
21) Allyl Chloride	4.48	41	1322732	9.139	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	834248	8.836	ppbv	96
23) Vinyl Acetate	5.16	43	2681009	9.115	ppbv	99
24) 1,1-Dichloroethane	5.09	63	2066808	8.465	ppbv	99
25) Ethyl Acetate	5.77	43	3260772	8.556	ppbv	100
26) Hexane	5.78	57	1516825	8.398	ppbv	99
27) Carbon Disulfide	4.62	76	2107279	9.330	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	2574795	9.099	ppbv	100
29) Chloroform	5.85	83	2559787	8.546	ppbv	99
30) Cyclohexane	7.25	84	1262299	9.304	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1558772	9.316	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2643555	8.365	ppbv	99
34) 2-Butanone	5.33	43	2066119	8.971	ppbv	100
35) Carbon Tetrachloride	7.14	117	2845398	8.355	ppbv	99
36) Benzene	7.01	78	3003622	9.254	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1994147	9.030	ppbv	100
38) Trichloroethene	7.96	130	1291149	9.524	ppbv	95
39) 1,2-Dichloropropane	7.74	63	1121132	9.208	ppbv	97
40) 1,4-Dioxane	7.96	88	410022	8.872	ppbv #	1
41) Tetrahydrofuran	6.15	42	1150563	9.797	ppbv	98
42) Bromodichloromethane	7.92	83	2778257	8.745	ppbv	99
43) Methyl Methacrylate	8.14	69	1218642	10.070	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033061.D
 Acq On : 4 Jan 2019 9:14
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

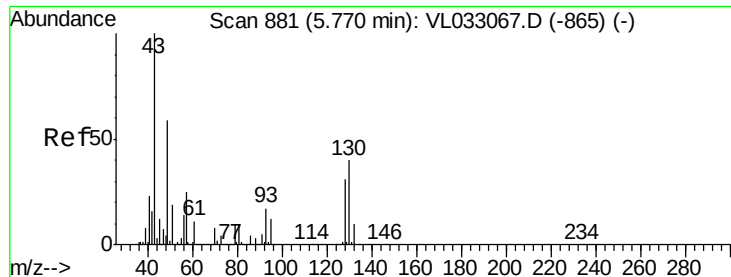
Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:00:59 AM

Quant Time: Jan 04 10:06:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5072027	8.826	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1717726	10.271	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1947470	10.711	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	1281045	8.716	ppbv	97
48) Dibromochloromethane	10.45	129	2406301	9.871	ppbv	99
49) Bromoform	13.21	173	2345896	10.441	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2907617	9.390	ppbv	100
51) 2-Hexanone	10.27	43	2216554	10.595	ppbv	100
52) Tetrachloroethene	11.38	164	1115322	9.493	ppbv	99
53) Toluene	9.95	91	3538591	10.591	ppbv	99
54) 1,2-Dibromoethane	10.76	107	2023912	9.478	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1942270	8.634	ppbv	100
57) Chlorobenzene	12.31	112	3188428	8.847	ppbv	99
58) Ethyl Benzene	12.87	91	5539074	10.130	ppbv	98
59) m/p-Xylene	13.16	91	9456207m	18.622	ppbv	
60) o-Xylene	13.85	91	4584928	9.237	ppbv	100
61) Styrene	13.69	104	3434871	10.730	ppbv	100
62) Isopropylbenzene	14.83	105	6409242	9.040	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	3104891	7.991	ppbv	100
64) n-propylbenzene	15.73	120	1643024	9.398	ppbv	99
65) tert-Butylbenzene	16.92	119	5741020	9.097	ppbv	100
66) Benzyl Chloride	17.16	91	3493216	9.848	ppbv	100
67) sec-Butylbenzene	17.46	105	7938040	8.921	ppbv	100
69) p-Isopropyltoluene	17.82	119	6611663	9.185	ppbv	100
70) n-Butylbenzene	18.72	91	6621935	9.014	ppbv	99
71) 2-Chlorotoluene	15.62	91	4786403	9.530	ppbv	100
72) 4-Ethyltoluene	16.01	105	5296756	9.577	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	5010980	9.282	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	5169124	8.717	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2888339	8.318	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2850115	9.022	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2735059	8.605	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1535165	6.872	ppbv	100
79) Naphthalene	22.42	128	4917133	9.127	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1921659	12.863	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	2269218m	9.249	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1627308

Ion Ratio Lower Upper

49 100

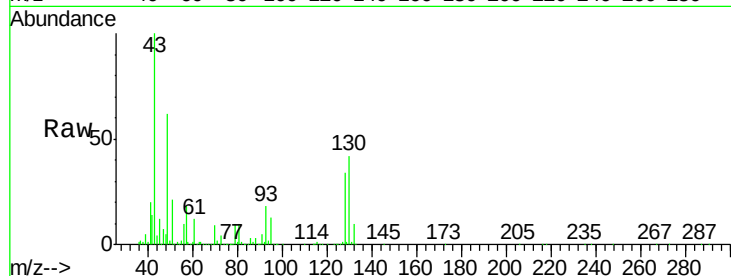
128 52.3 26.2 78.5

130 66.4 33.6 100.6

Manual Integrations
APPROVED

MMDadoda

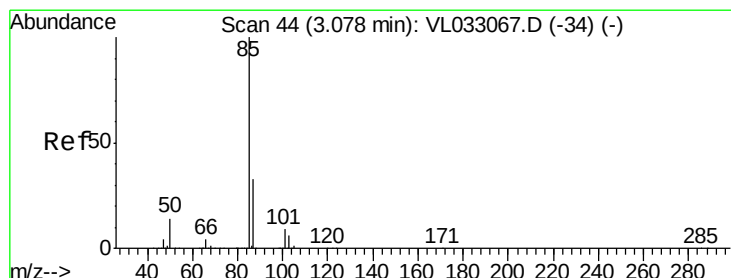
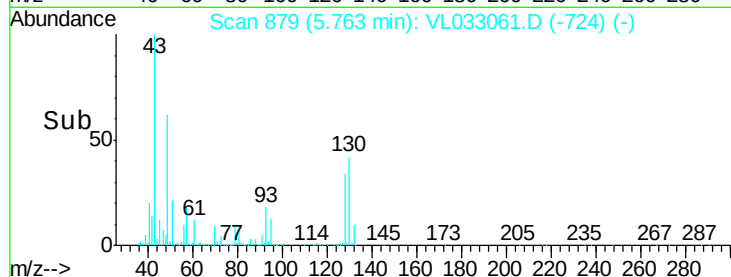
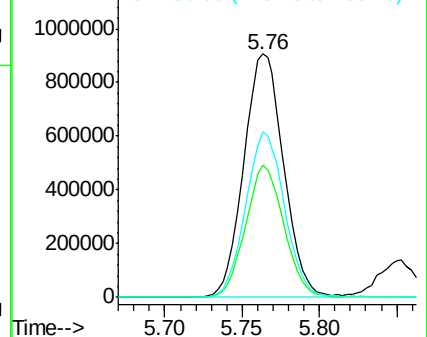
1/8/2019 12:00:59 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 3.535 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033061.D

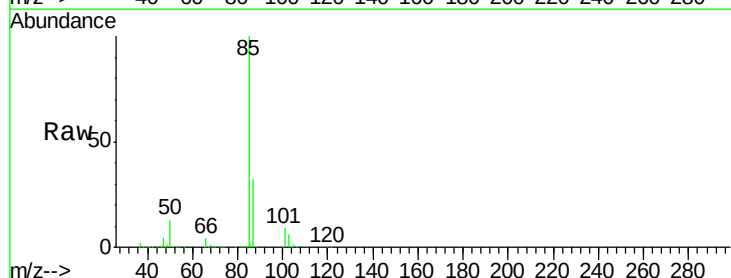
Acq: 4 Jan 2019 9:14

Tgt Ion: 85 Resp: 1282852

Ion Ratio Lower Upper

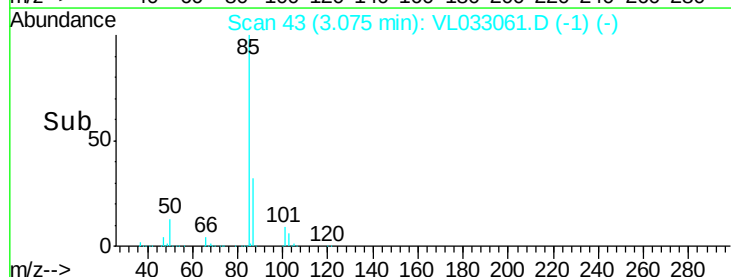
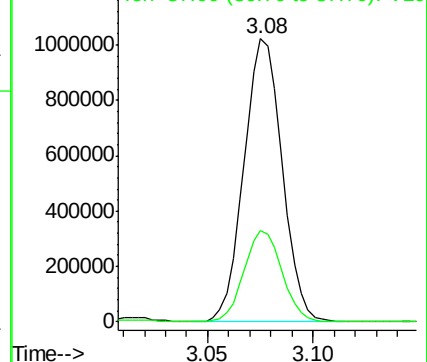
85 100

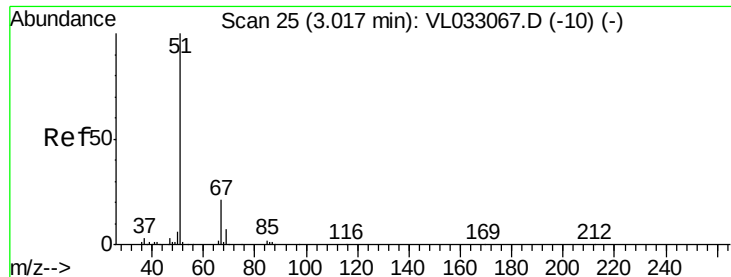
87 32.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 6.509 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Tot Ion: 51 Resp: 1289247

Ion Ratio Lower Upper

51 100

67 20.7 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

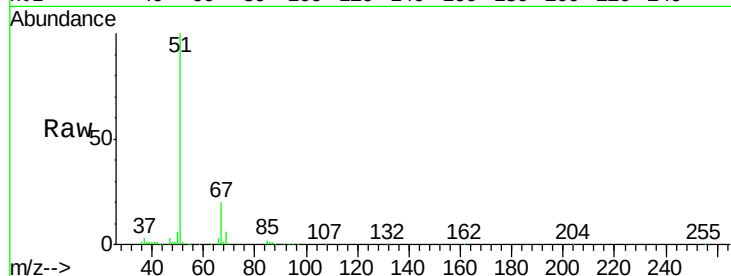
VSTDICCC010

Manual Integrations

APPROVED

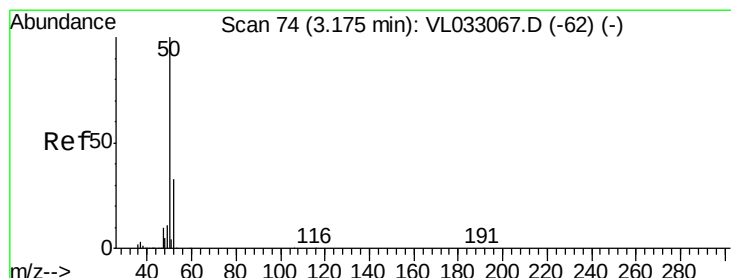
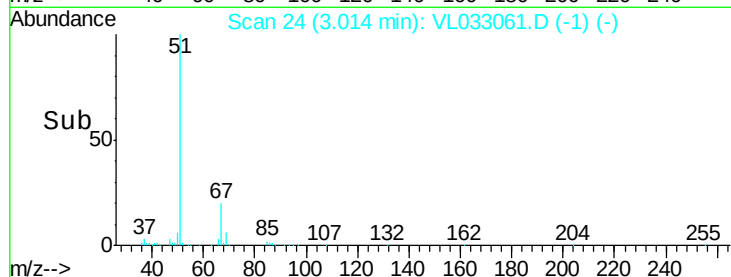
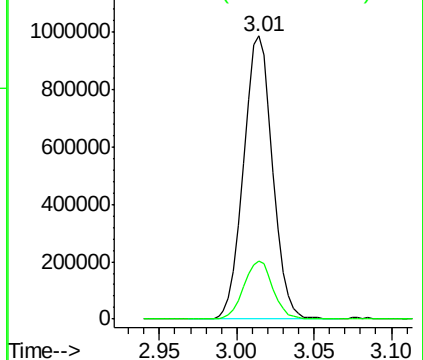
MMDadoda

1/8/2019 12:00:59 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 6.325 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033061.D

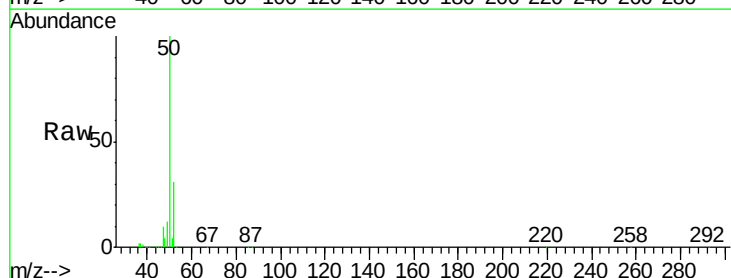
Acq: 4 Jan 2019 9:14

Tgt Ion: 50 Resp: 728170

Ion Ratio Lower Upper

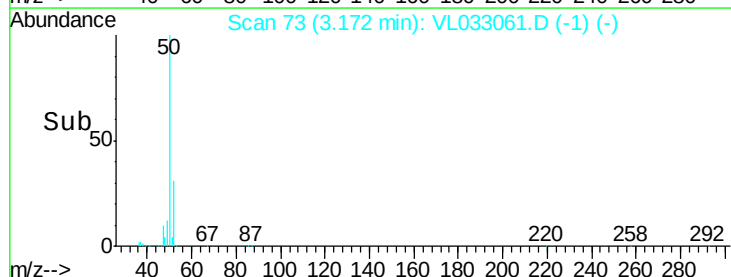
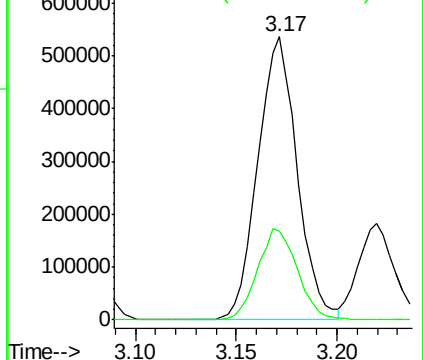
50 100

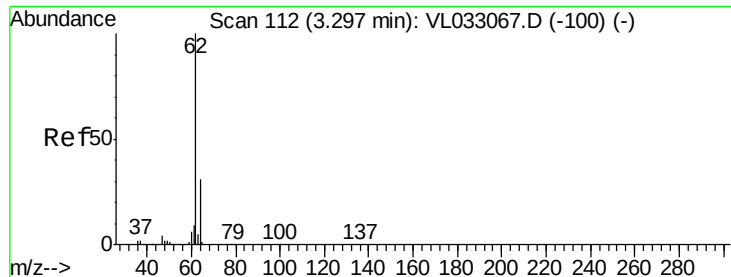
52 31.2 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 6.120 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 748228

Ion Ratio Lower Upper

62 100

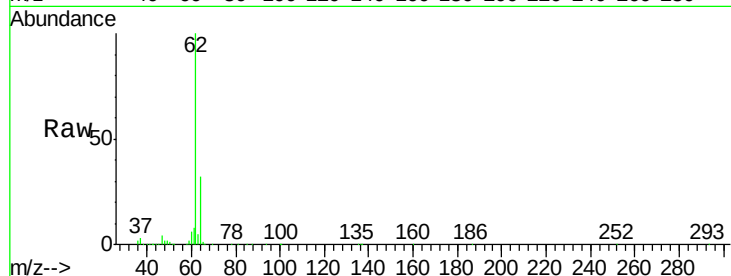
64 32.1 25.3 37.9

Manual Integrations

APPROVED

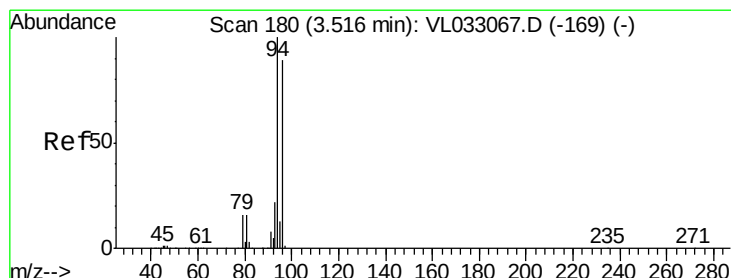
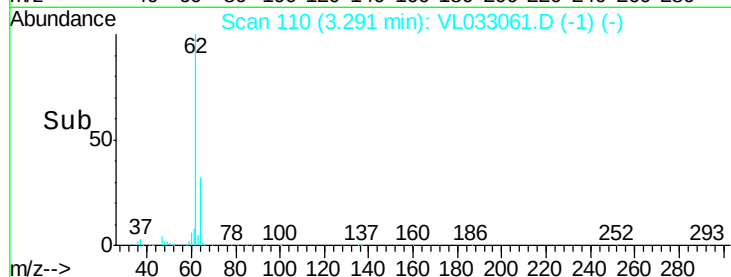
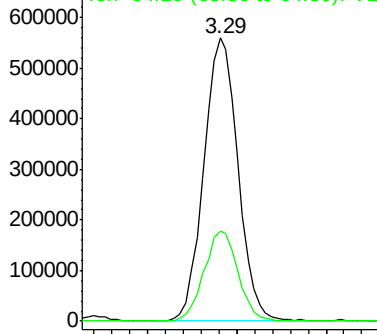
MMDadoda

1/8/2019 12:00:59 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.034 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033061.D

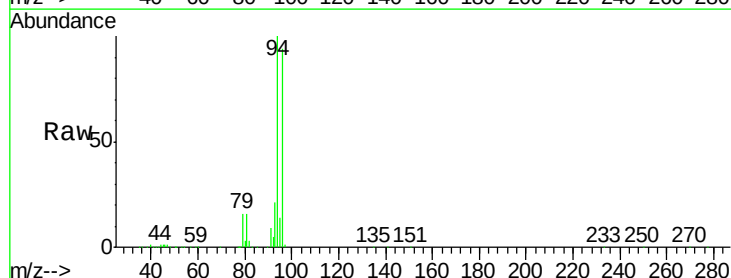
Acq: 4 Jan 2019 9:14

Tgt Ion: 94 Resp: 672333

Ion Ratio Lower Upper

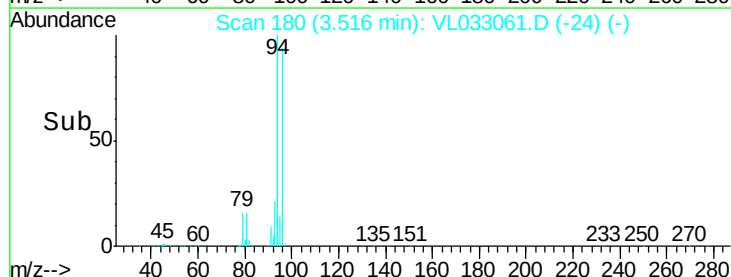
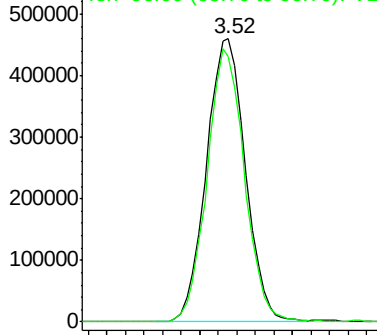
94 100

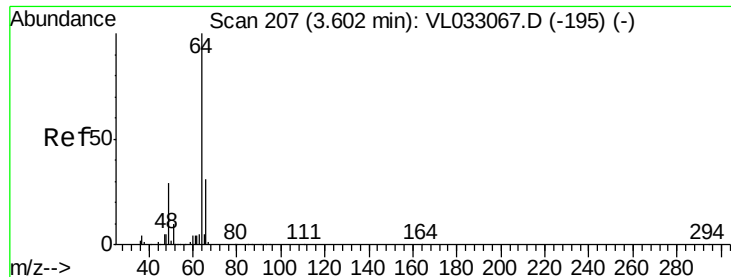
96 93.9 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.109 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 382671

Ion Ratio Lower Upper

64 100

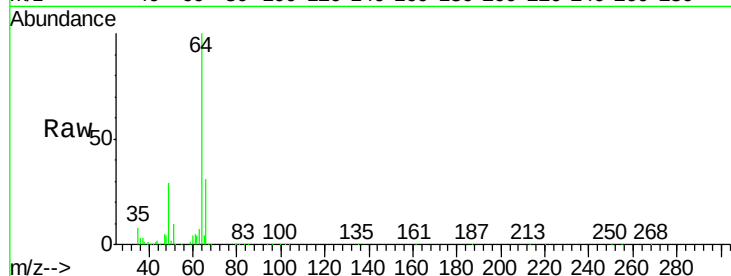
66 31.2 23.7 35.5

Manual Integrations

APPROVED

MMDadoda

1/8/2019 12:00:59 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

300000

250000

200000

150000

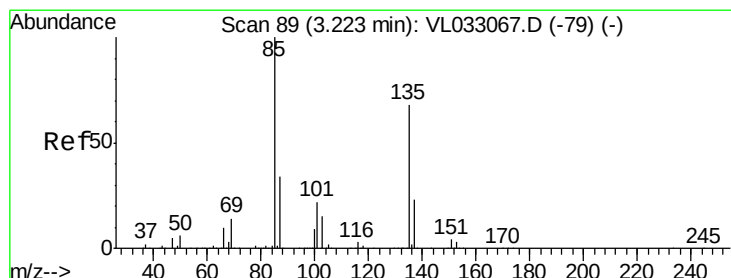
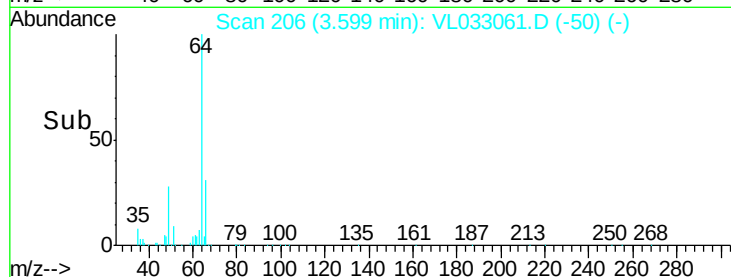
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 6.450 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033061.D

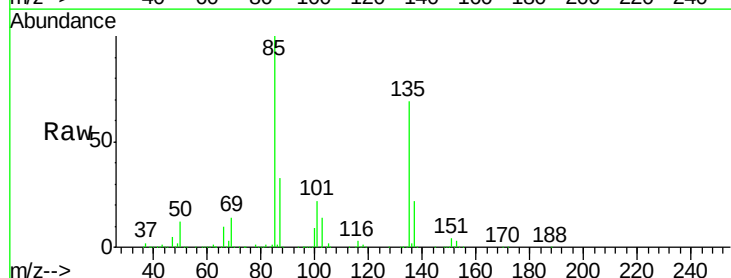
Acq: 4 Jan 2019 9:14

Tgt Ion: 85 Resp: 1864414

Ion Ratio Lower Upper

85 100

135 69.4 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

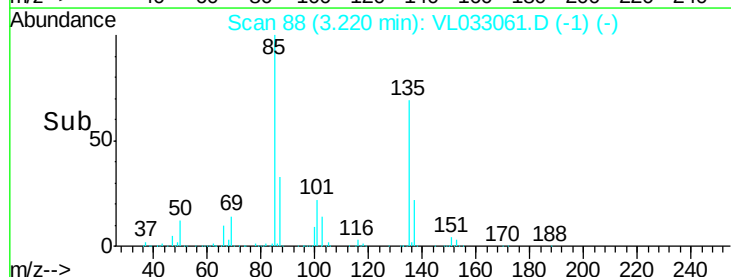
1000000

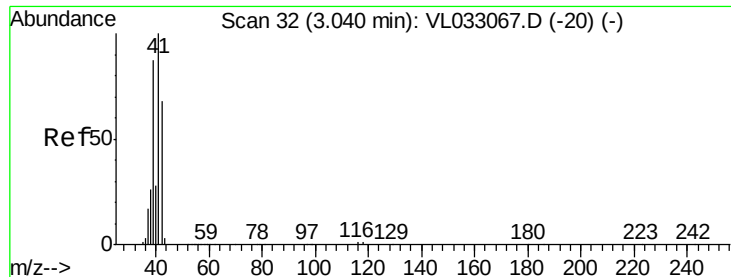
500000

0

3.15 3.20 3.25

Time-->





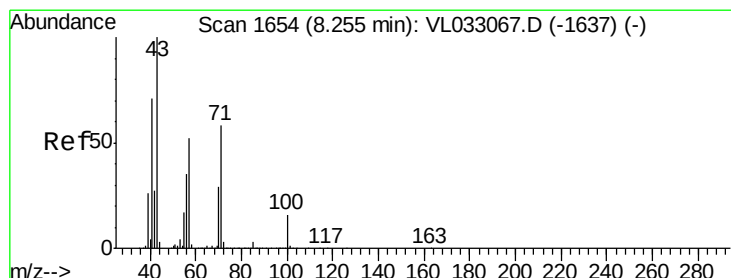
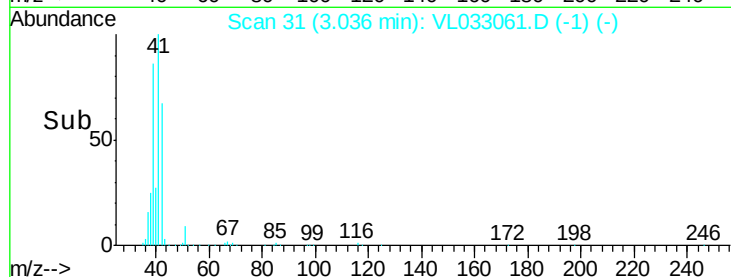
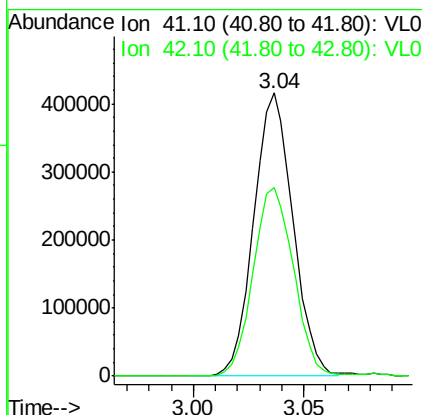
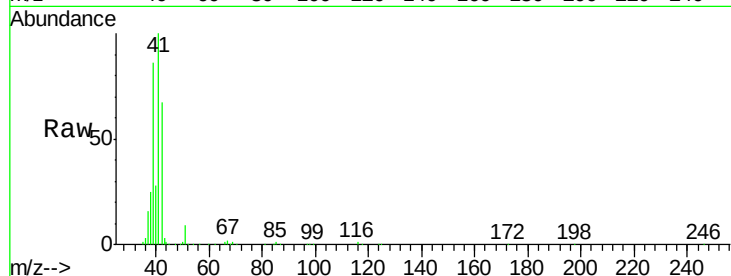
#9
 Propene
 Concen: 6.658 ppbv
 RT: 3.04 min Scan# 31
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 41 Resp: 511777
 Ion Ratio Lower Upper
 41 100
 42 69.4 55.3 82.9

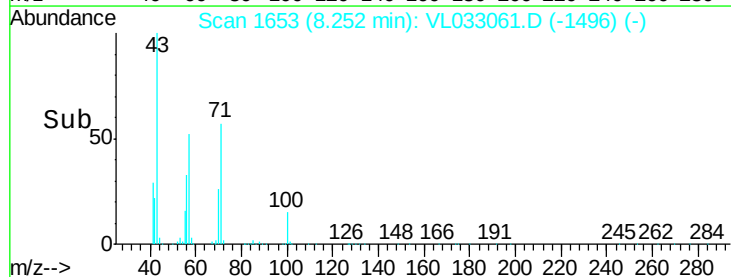
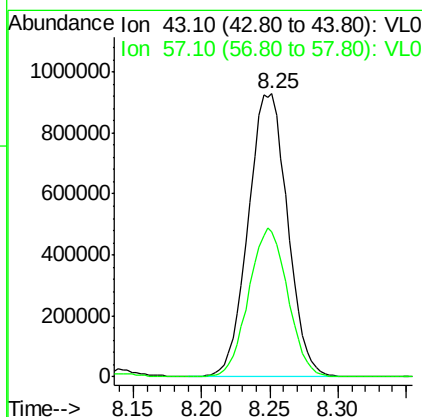
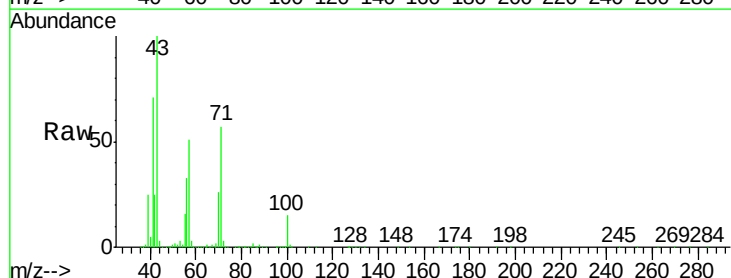
Manual Integrations
 APPROVED

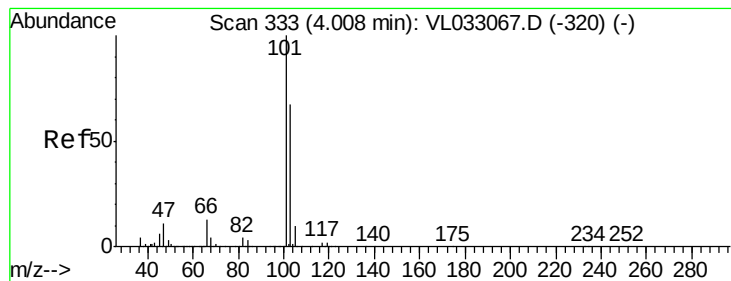
MMDadoda
 1/8/2019 12:00:59 AM



#10
 Heptane
 Concen: 9.414 ppbv
 RT: 8.25 min Scan# 1653
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion: 43 Resp: 1850981
 Ion Ratio Lower Upper
 43 100
 57 52.5 41.9 62.9





#11

Trichlorofluoromethane

Concen: 8.474 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Tot Ion:101 Resp: 2704980

Ion Ratio Lower Upper

101 100

103 65.8 51.7 77.5

Instrument :

MSVOA_L

ClientSampleId :

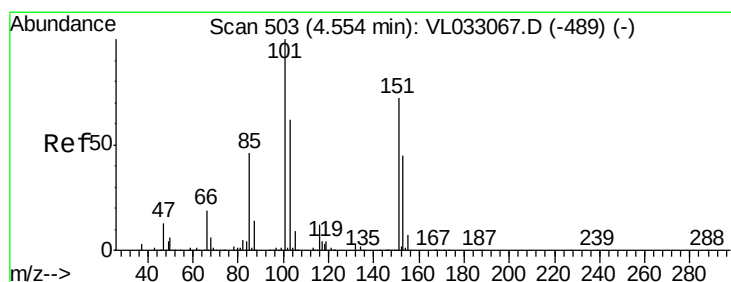
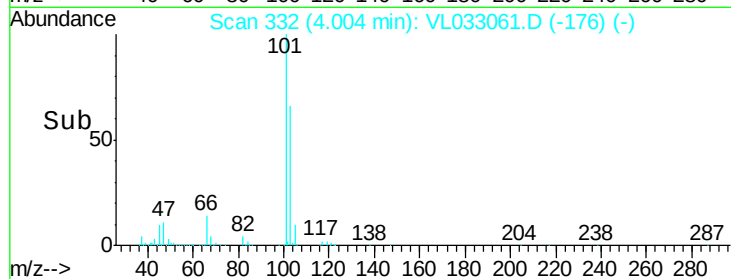
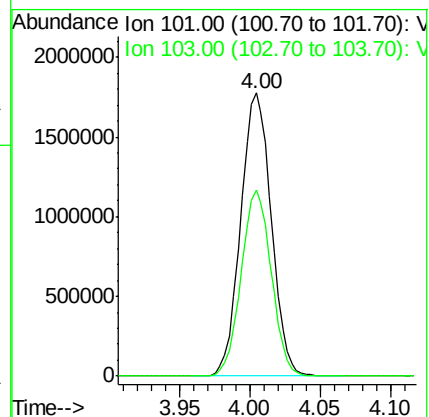
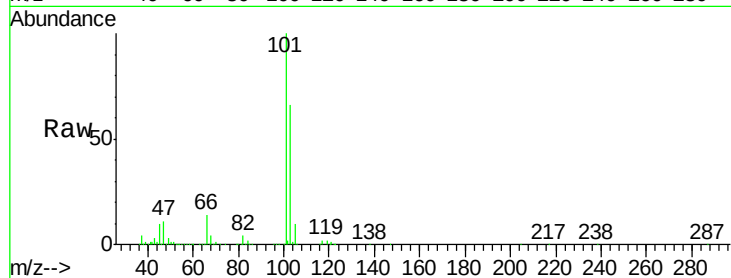
VSTDICCC010

Manual Integrations

APPROVED

MMDadoda

1/8/2019 12:00:59 AM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.372 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033061.D

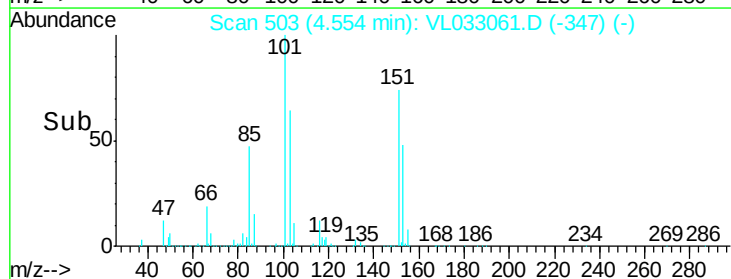
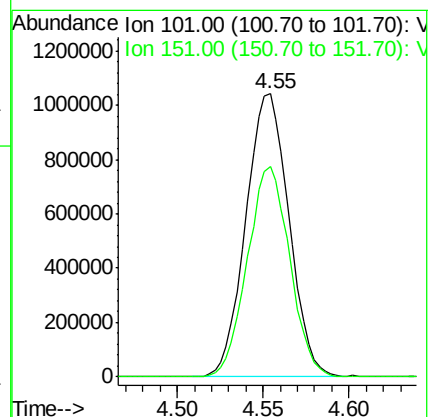
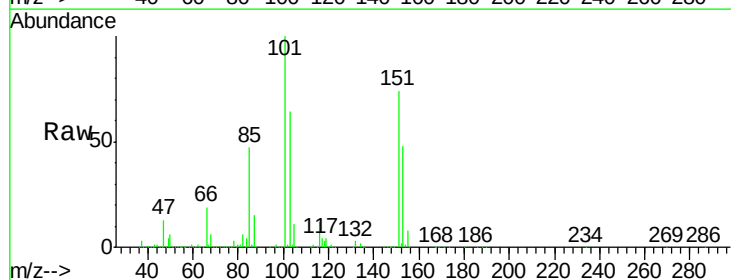
Acq: 4 Jan 2019 9:14

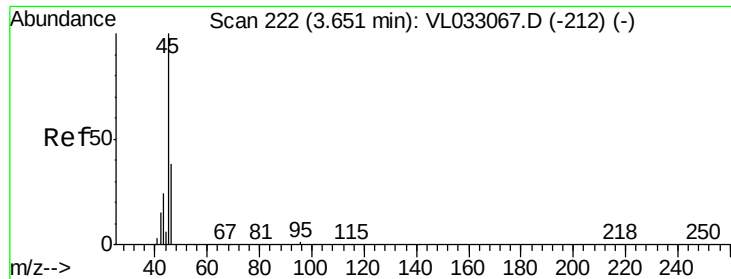
Tgt Ion:101 Resp: 1806156

Ion Ratio Lower Upper

101 100

151 73.6 58.3 87.5





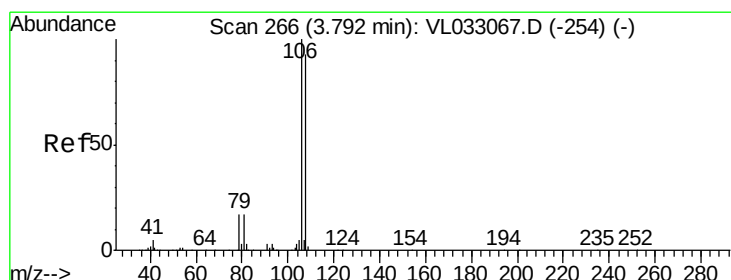
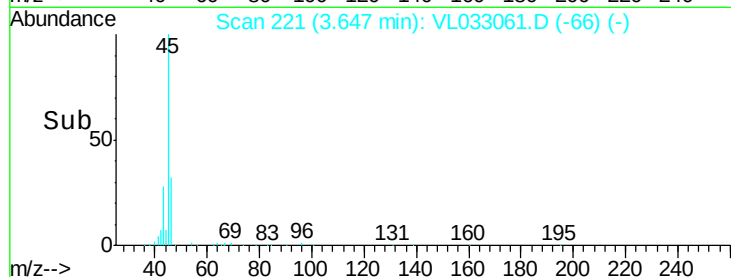
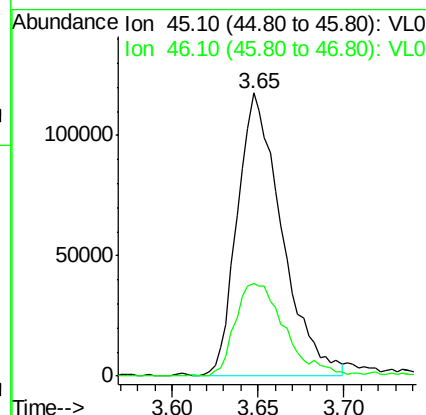
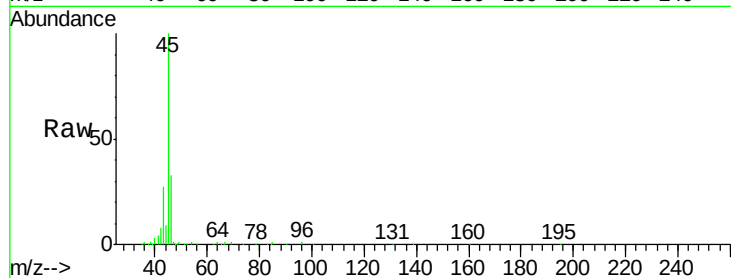
#13
Ethanol
Concen: 7.078 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 45 Resp: 211941
Ion Ratio Lower Upper
45 100
46 37.9 13.8 55.2

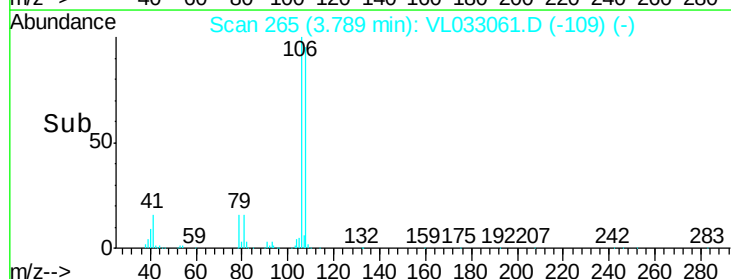
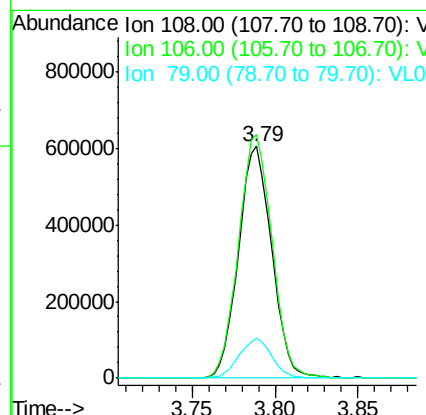
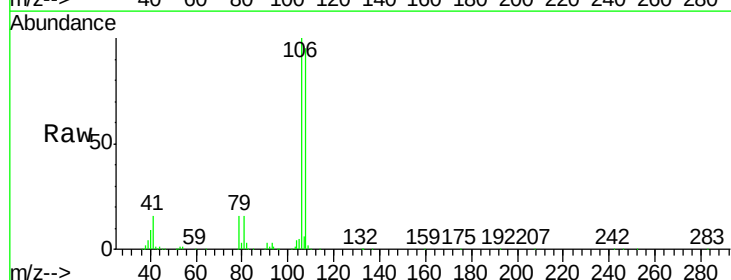
Manual Integrations
APPROVED

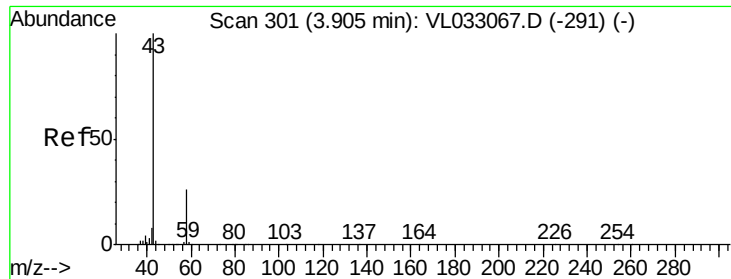
MMDadoda
1/8/2019 12:00:59 AM



#14
Bromoethene
Concen: 9.197 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion: 108 Resp: 845054
Ion Ratio Lower Upper
108 100
106 106.4 86.4 129.6
79 17.5 14.3 21.5





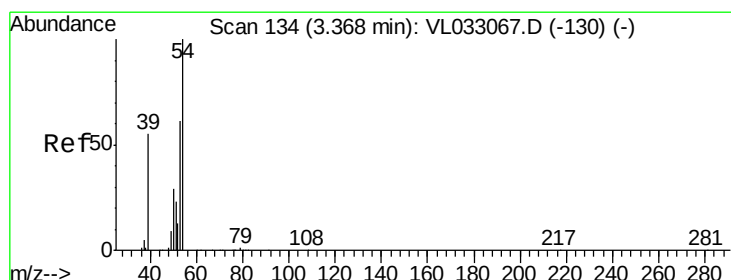
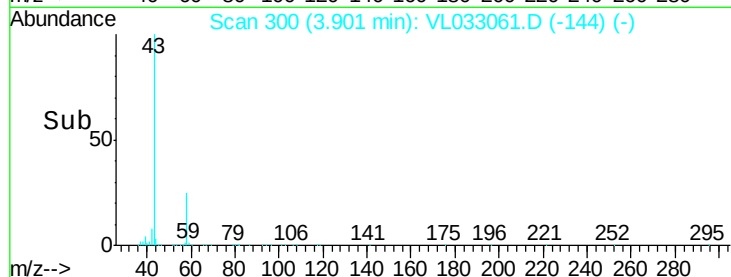
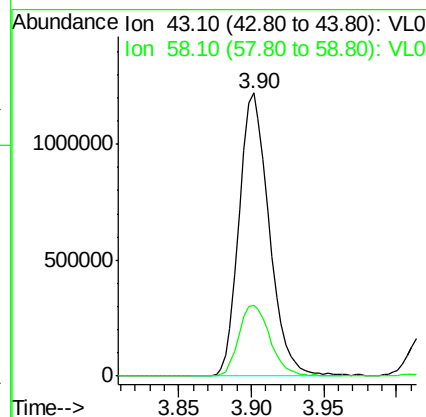
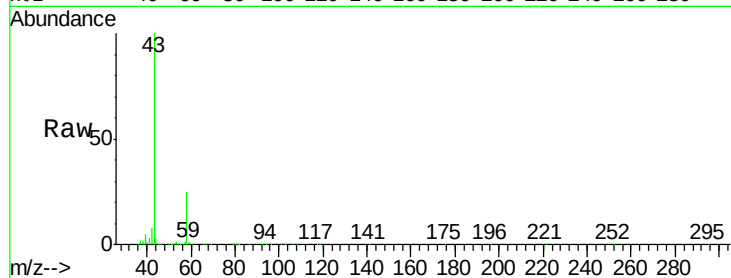
#15
Acetone
Concen: 8.264 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 1758891
Ion Ratio Lower Upper
43 100
58 26.2 21.1 31.7

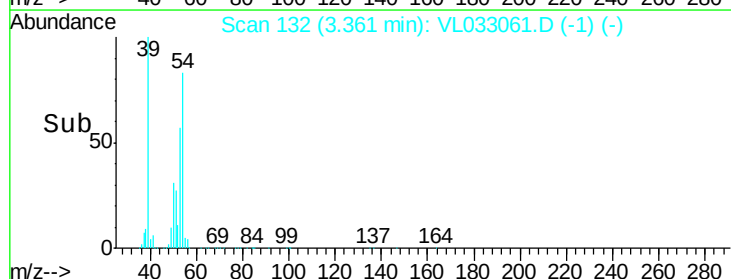
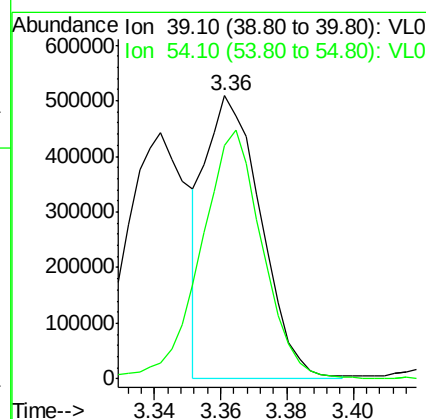
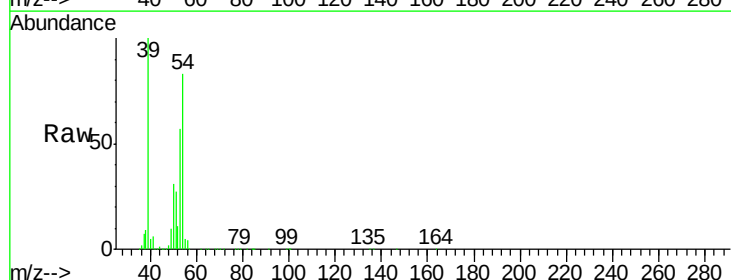
Manual Integrations
APPROVED

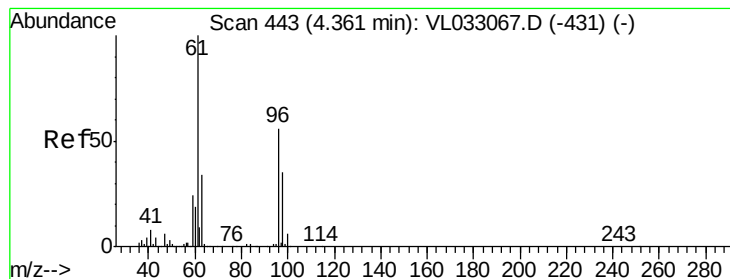
MMDadoda
1/8/2019 12:00:59 AM



#16
1,3-Butadiene
Concen: 6.373 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion: 39 Resp: 590964
Ion Ratio Lower Upper
39 100
54 97.9 73.7 110.5





#17

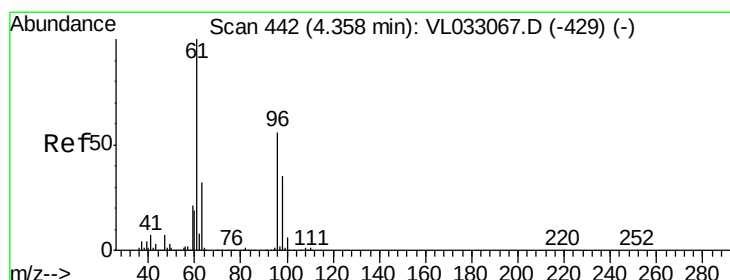
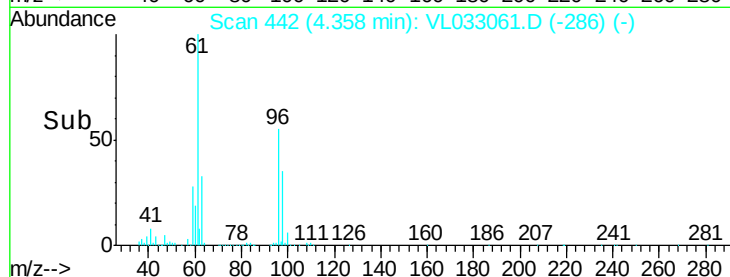
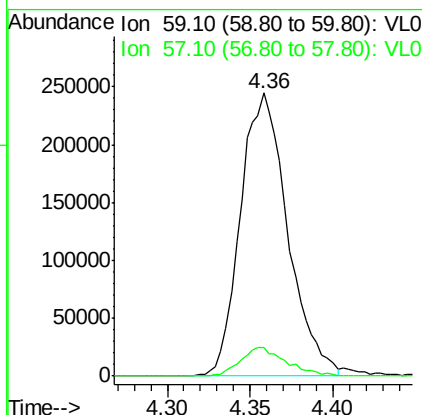
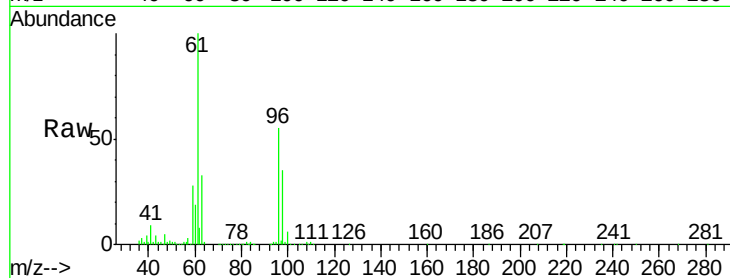
tert-Butyl alcohol
Concen: 10.183 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 484110
Ion Ratio Lower Upper
59 100
57 10.0 7.7 11.5

Manual Integrations
APPROVED

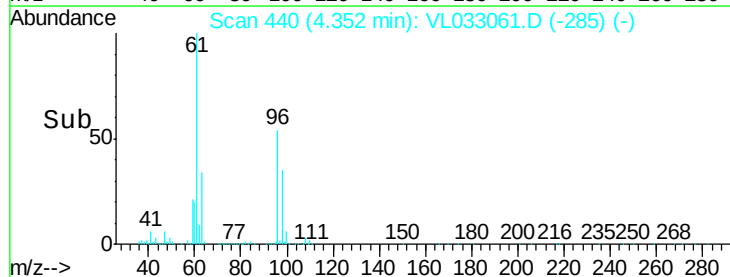
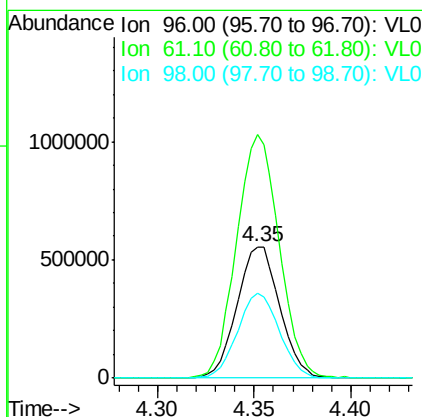
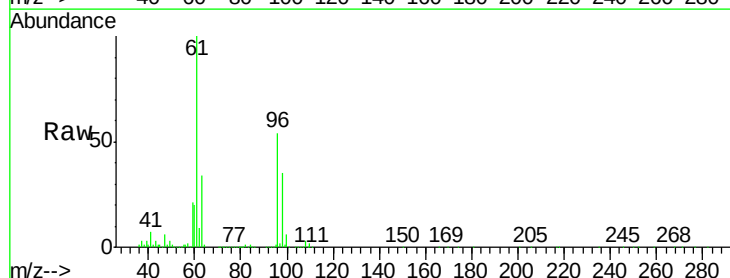
MMDadoda
1/8/2019 12:00:59 AM

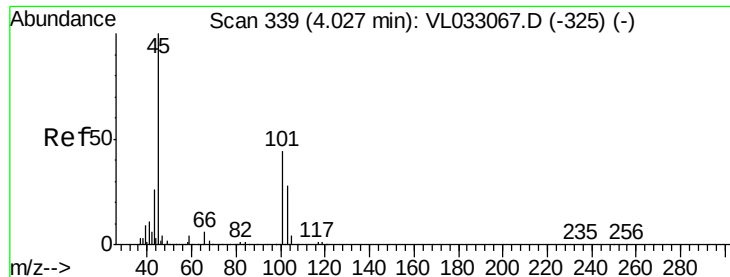


#18

1,1-Dichloroethene
Concen: 8.835 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion: 96 Resp: 854098
Ion Ratio Lower Upper
96 100
61 184.8 143.7 215.5
98 64.5 52.1 78.1





#19

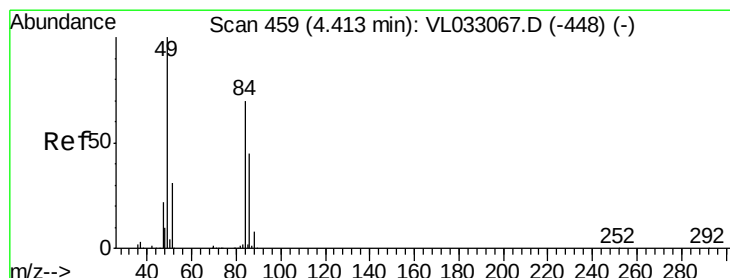
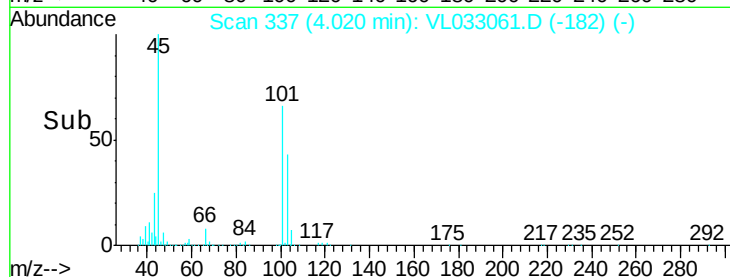
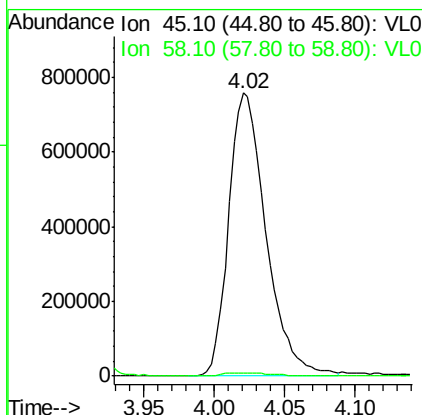
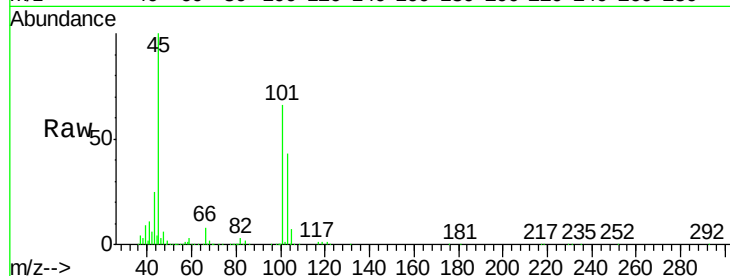
Isopropyl Alcohol
 Concen: 9.876 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 45 Resp: 1404274
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.2

Manual Integrations
 APPROVED

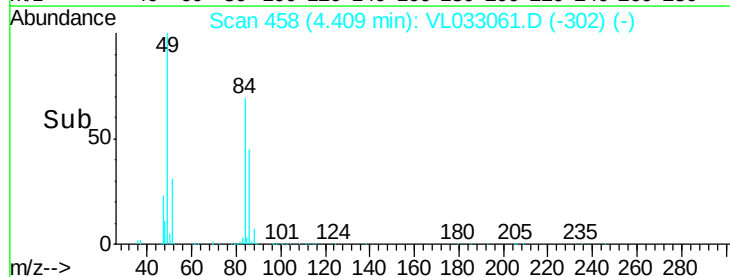
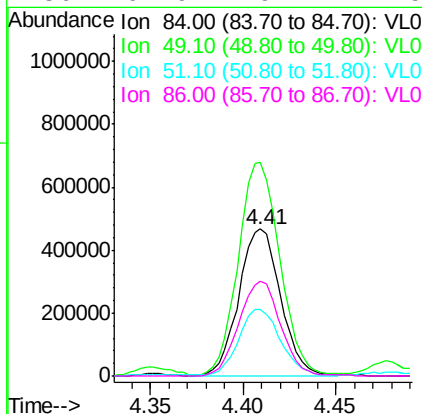
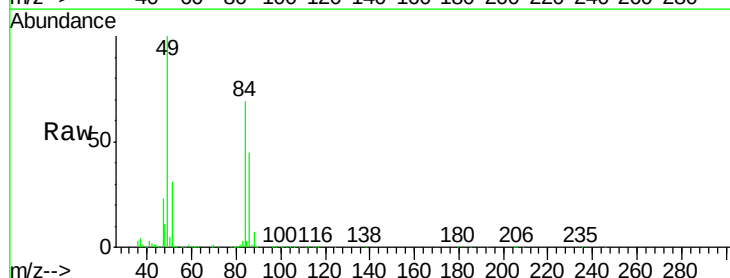
MMDadoda
 1/8/2019 12:00:59 AM

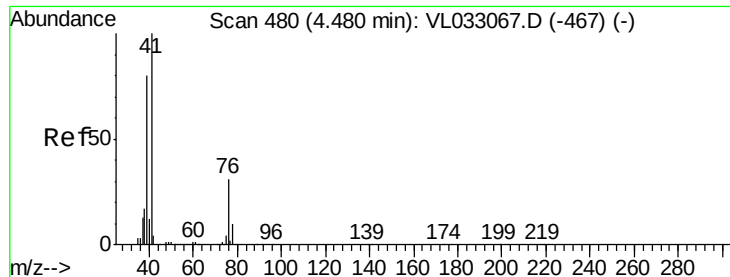


#20

Methylene Chloride
 Concen: 7.675 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion: 84 Resp: 722858
 Ion Ratio Lower Upper
 84 100
 49 144.8 115.8 173.6
 51 44.6 35.7 53.5
 86 64.9 49.7 74.5





#21

Allvl Chloride

Concen: 9.139 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 1322732

Ion Ratio Lower Upper

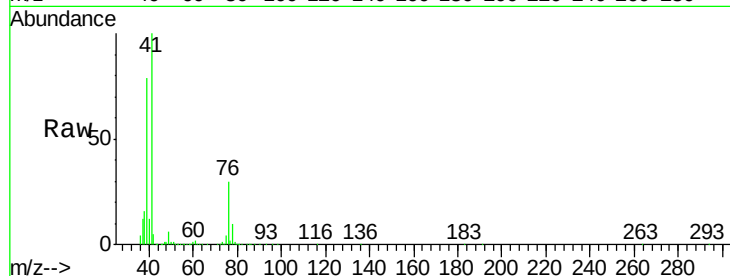
41 100

76 30.7 24.6 36.8

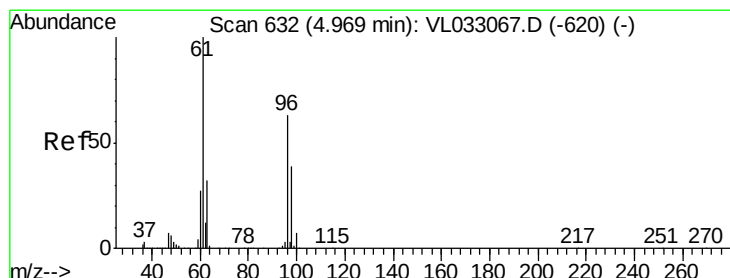
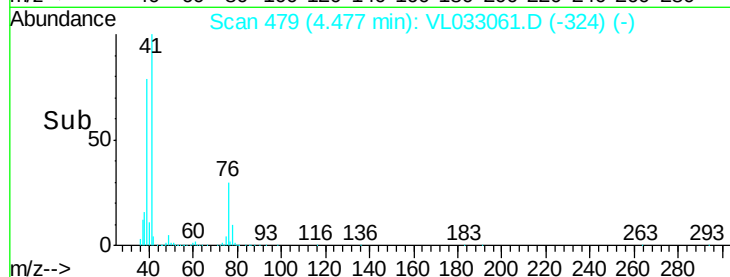
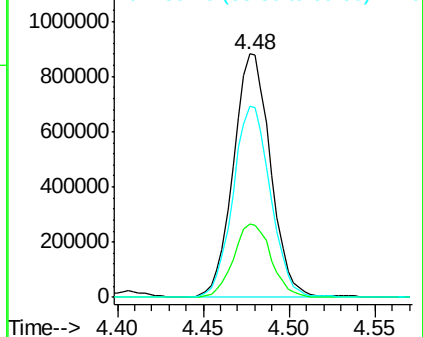
39 79.6 62.8 94.2

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:59 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 8.836 ppbv

RT: 4.96 min Scan# 630

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

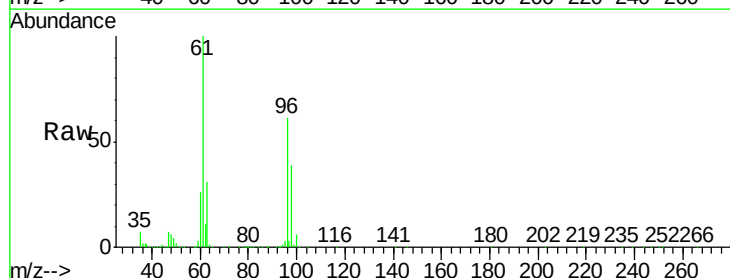
Tgt Ion: 96 Resp: 834248

Ion Ratio Lower Upper

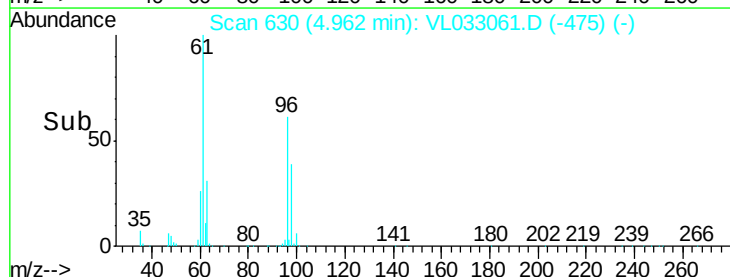
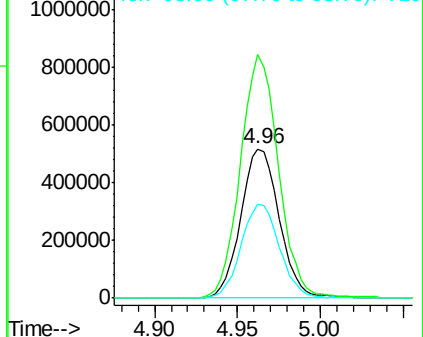
96 100

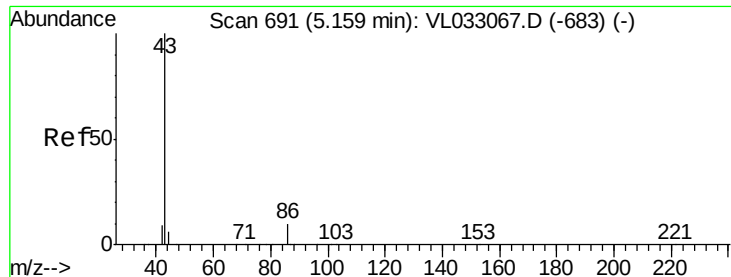
61 163.0 125.2 187.8

98 62.9 50.9 76.3



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.115 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleID :

VSTDICCC010

Tot Ion: 43 Resp: 2681009

Ion Ratio Lower Upper

43 100

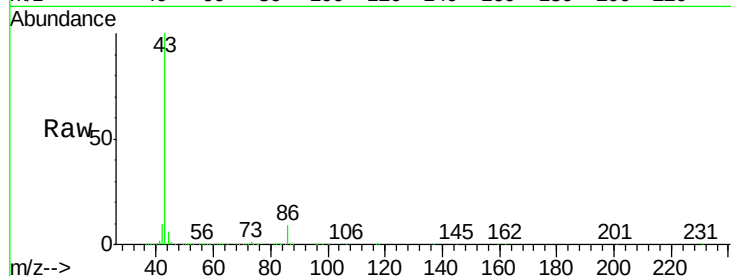
86 8.5 6.2 9.4

42 9.6 8.1 12.1

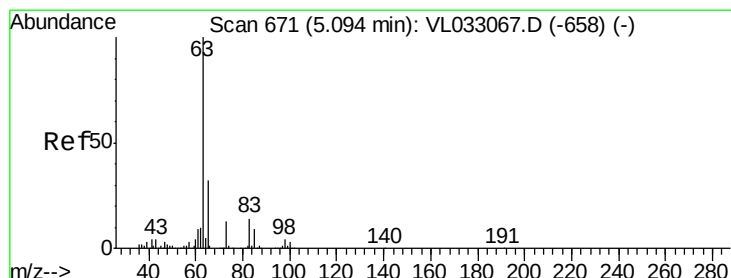
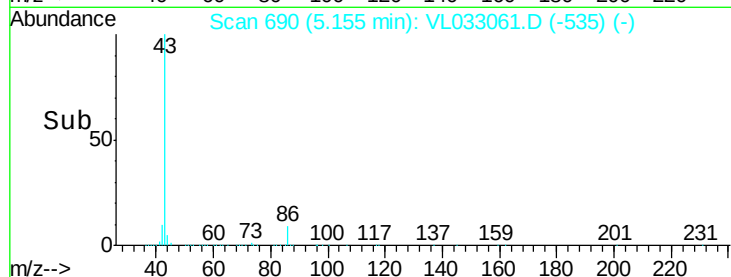
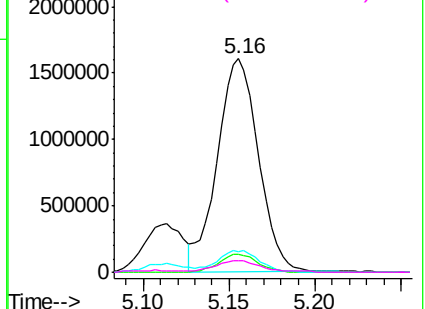
44 5.4 4.3 6.5

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:59 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0
2500000
Ion 86.10 (85.80 to 86.80): VL0
2000000
Ion 42.10 (41.80 to 42.80): VL0
1500000
Ion 44.10 (43.80 to 44.80): VL0
1000000
500000
0



#24

1,1-Dichloroethane

Concen: 8.465 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

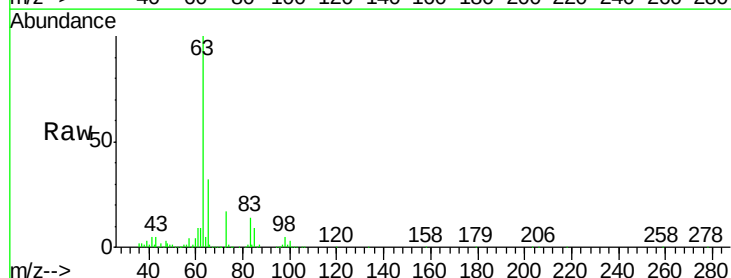
Tgt Ion: 63 Resp: 2066808

Ion Ratio Lower Upper

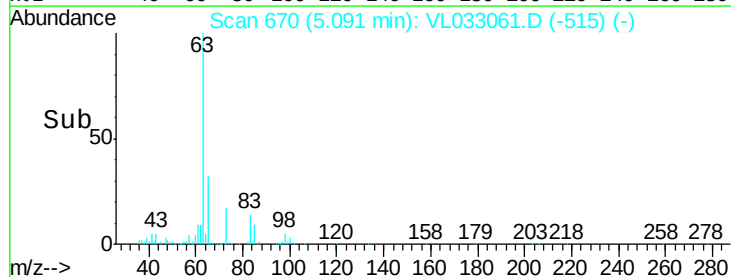
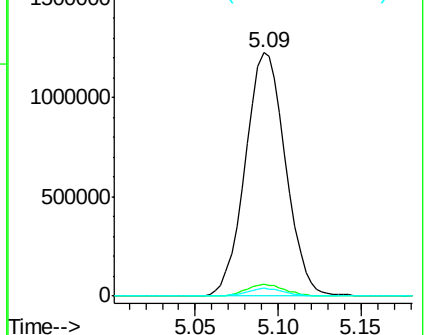
63 100

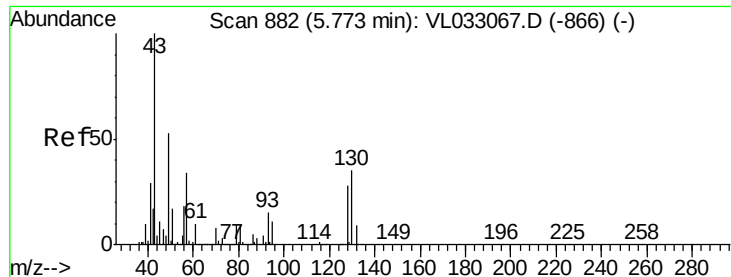
98 4.7 2.4 7.2

100 3.3 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0
1500000
Ion 98.00 (97.70 to 98.70): VL0
1000000
Ion 100.00 (99.70 to 100.70): VL0
500000
0





#25

Ethyl Acetate

Concen: 8.556 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 3260772

Ion Ratio Lower Upper

43 100

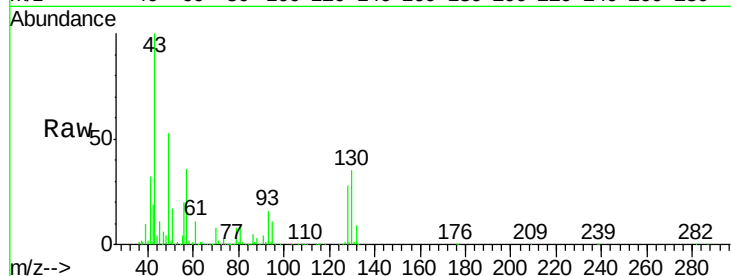
45 9.8 7.9 11.9

61 9.5 7.8 11.8

70 7.5 6.0 9.0

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:59 AM



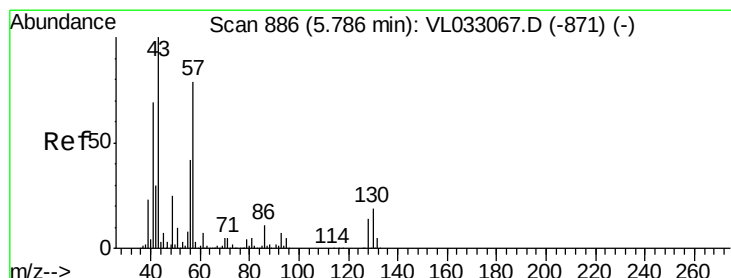
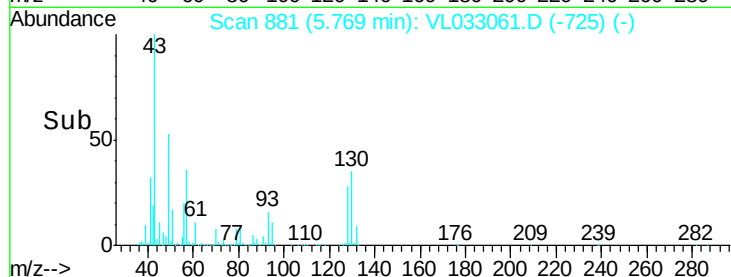
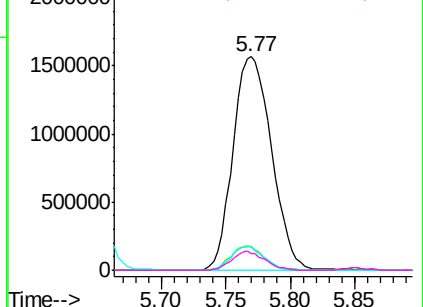
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.398 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Tgt Ion: 57 Resp: 1516825

Ion Ratio Lower Upper

57 100

41 88.4 70.8 106.2

43 215.7 171.8 257.6

56 53.1 41.9 62.9

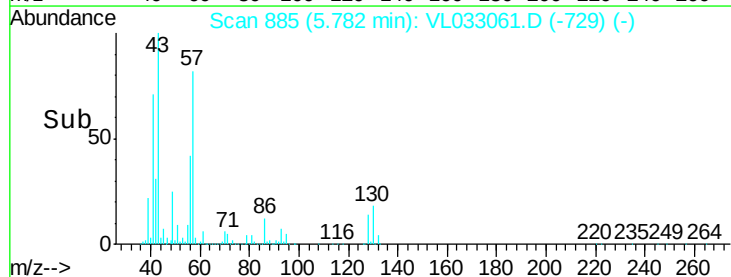
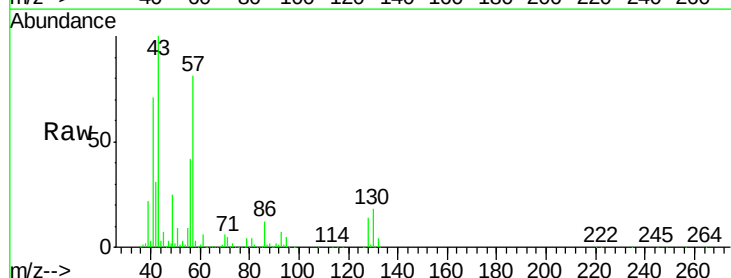
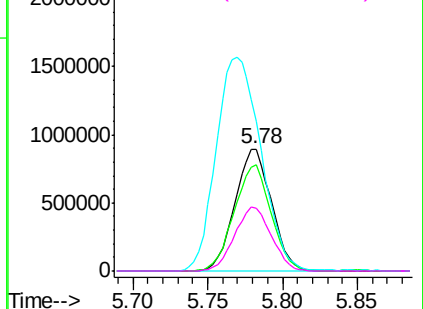
Abundance

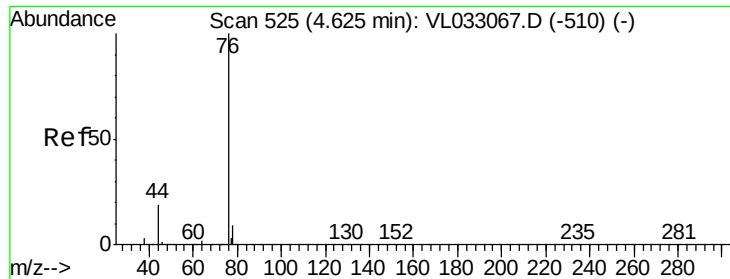
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.330 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 2107279

Ion Ratio Lower Upper

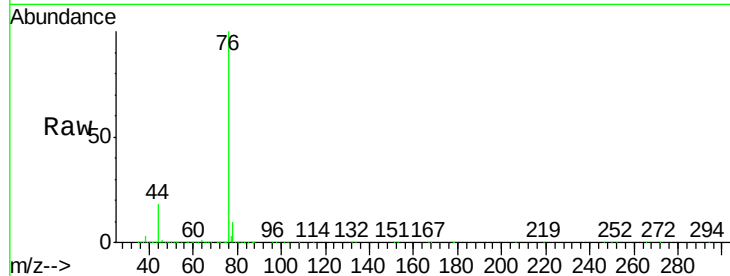
76 100

44 18.7 13.9 20.9

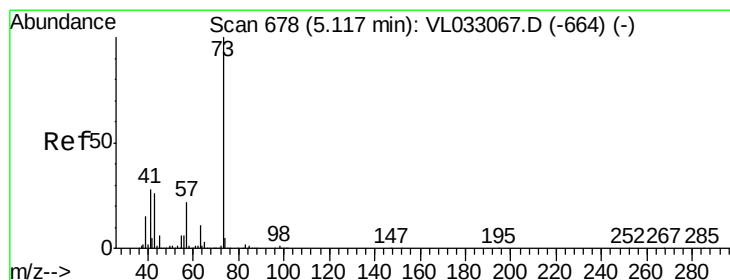
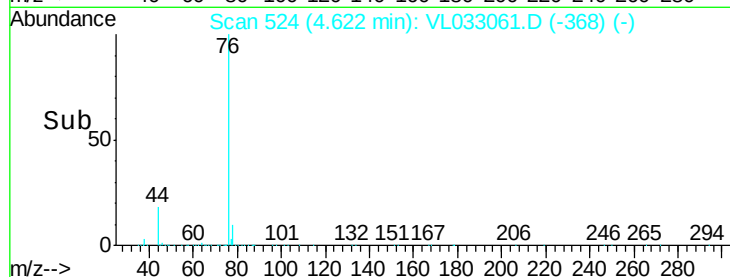
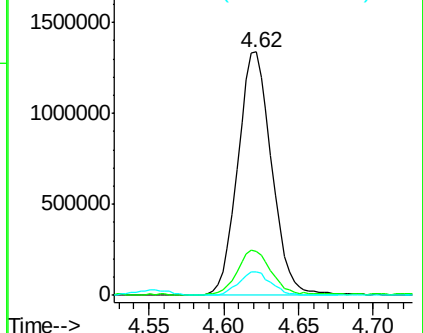
78 9.6 7.3 10.9

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:59 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.099 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033061.D

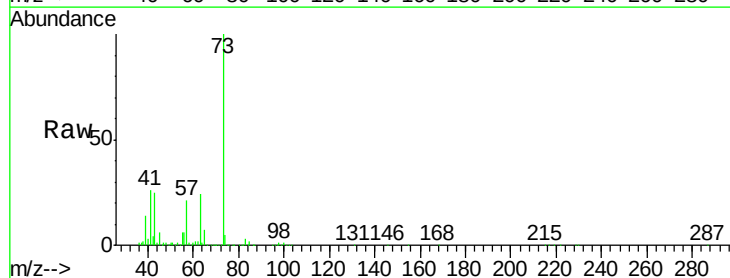
Acq: 4 Jan 2019 9:14

Tgt Ion: 73 Resp: 2574795

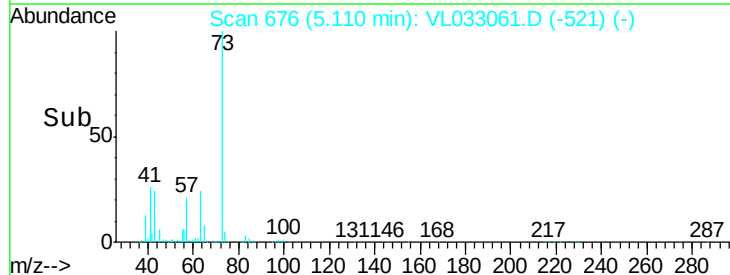
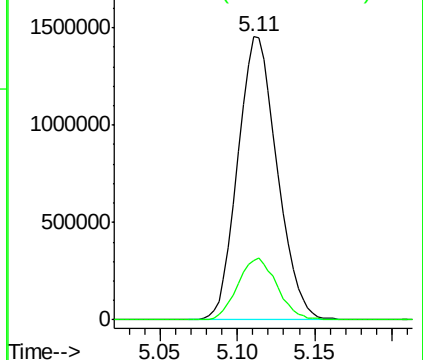
Ion Ratio Lower Upper

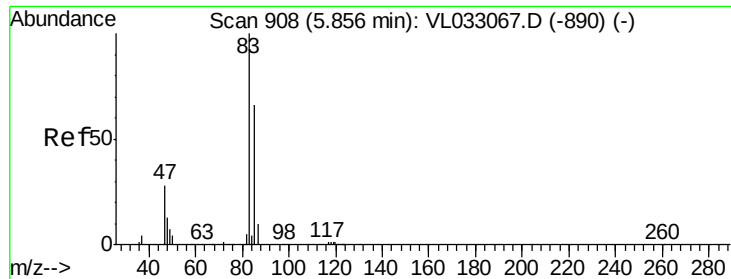
73 100

57 21.9 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





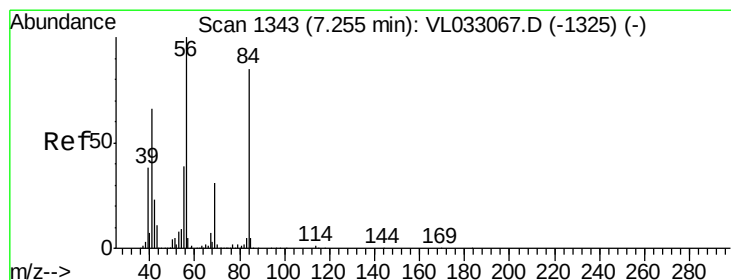
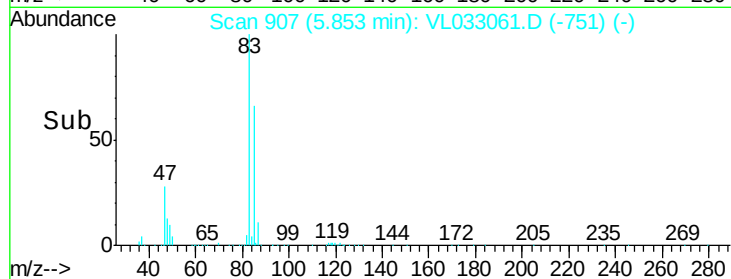
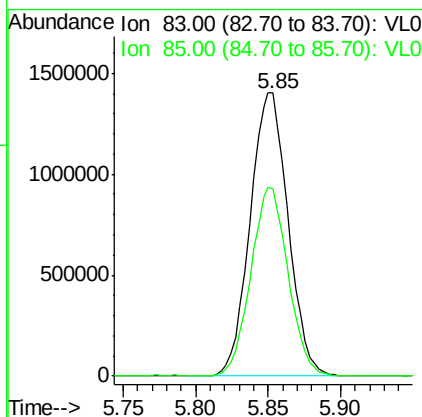
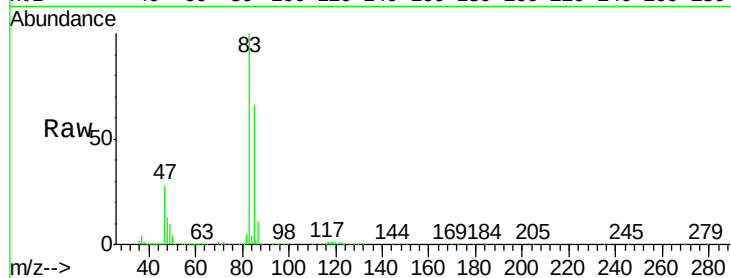
#29
Chloroform
Concen: 8.546 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 2559787
Ion Ratio Lower Upper
83 100
85 66.0 52.5 78.7

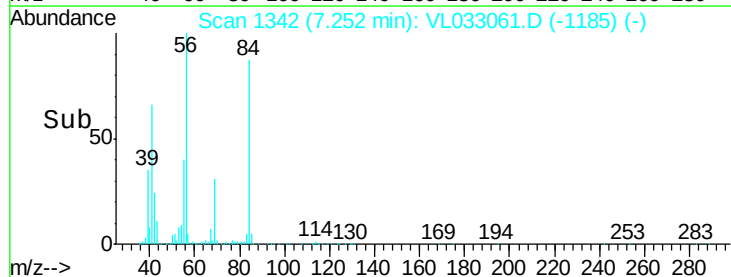
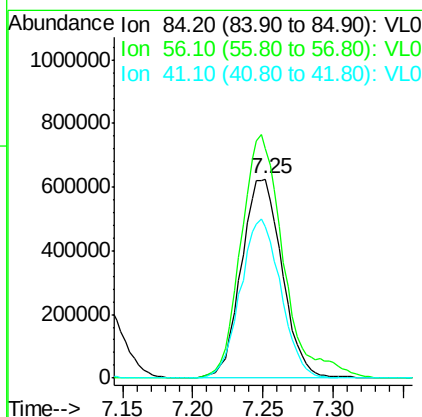
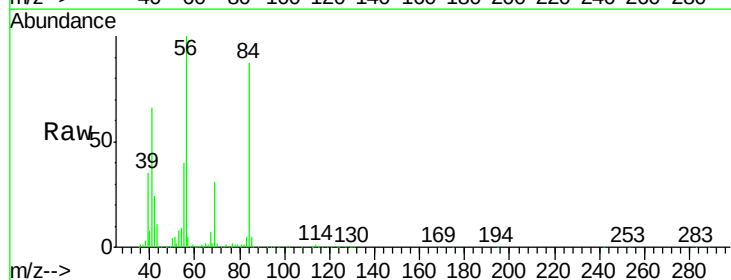
Manual Integrations
APPROVED

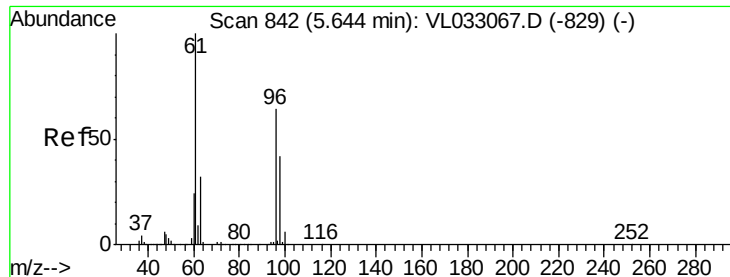
MMDadoda
1/8/2019 12:00:59 AM



#30
Cyclohexane
Concen: 9.304 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion: 84 Resp: 1262299
Ion Ratio Lower Upper
84 100
56 128.1 101.8 152.6
41 79.6 63.2 94.8





#31

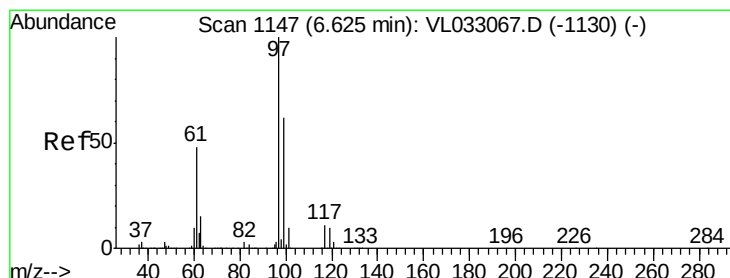
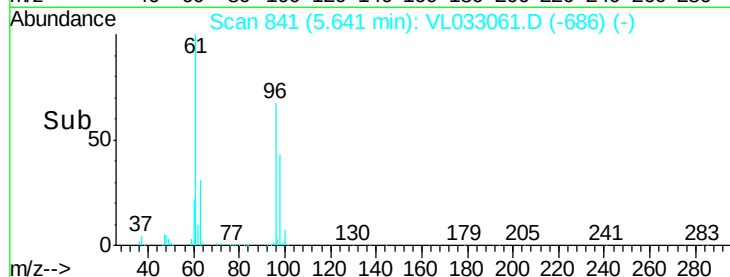
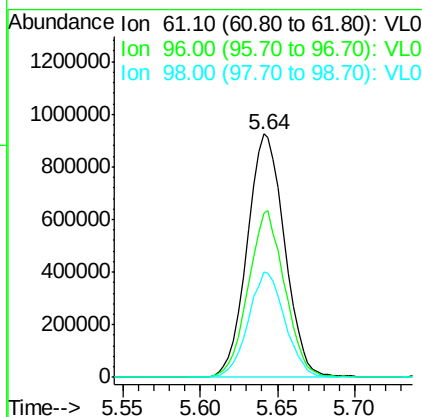
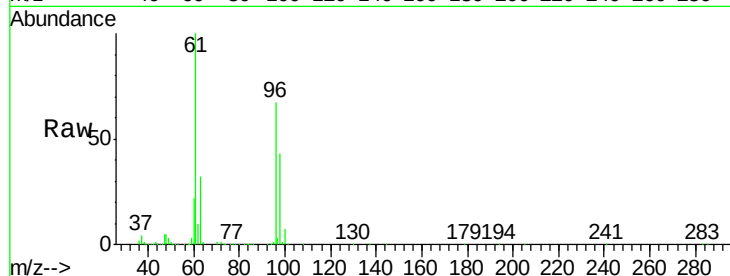
cis-1,2-Dichloroethene
 Concen: 9.316 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.3	52.8	79.2
98	43.0	33.8	50.6

Manual Integrations
 APPROVED

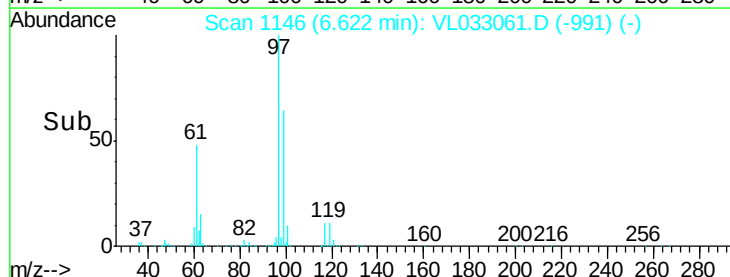
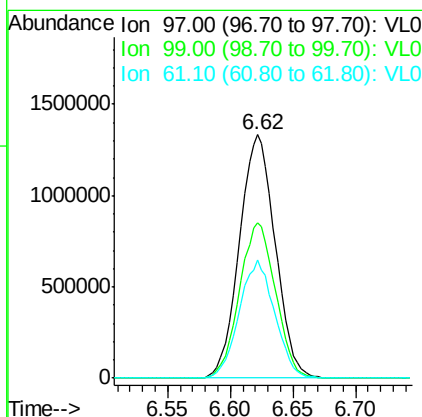
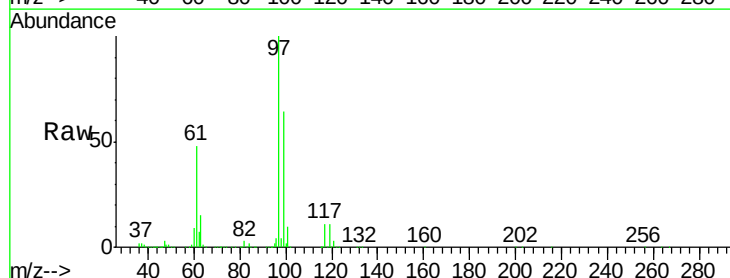
MMDadoda
 1/8/2019 12:00:59 AM

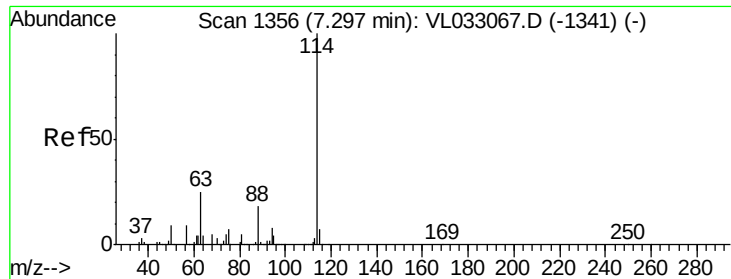


#32

1,1,1-Trichloroethane
 Concen: 8.365 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.1	76.7
61	48.1	38.3	57.5





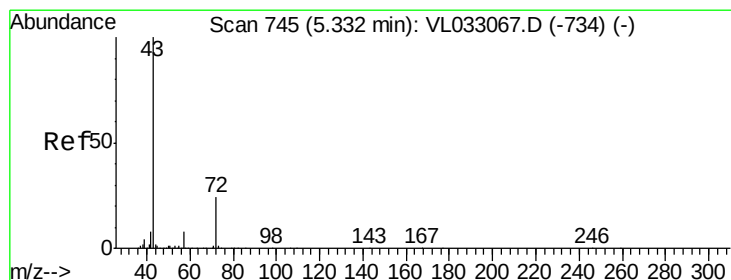
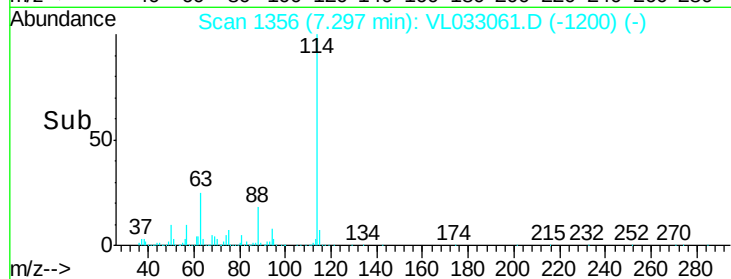
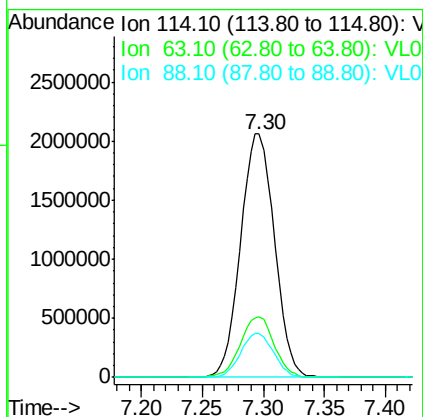
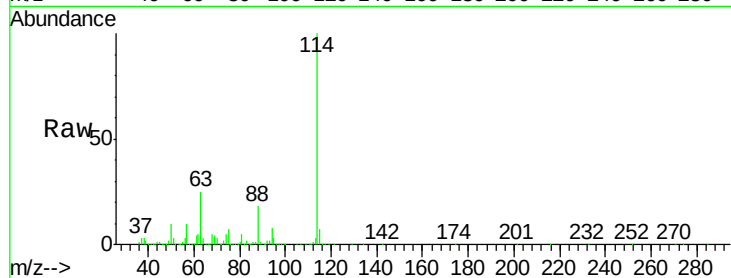
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.1	30.1
88	17.7	14.0	21.0

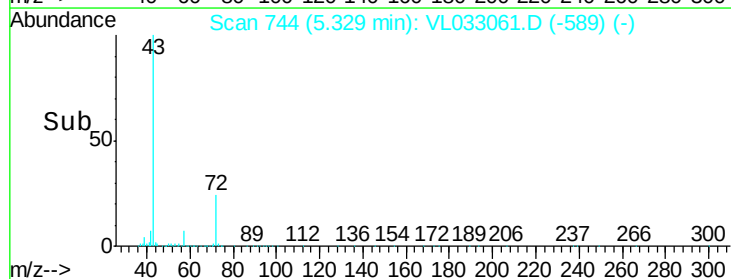
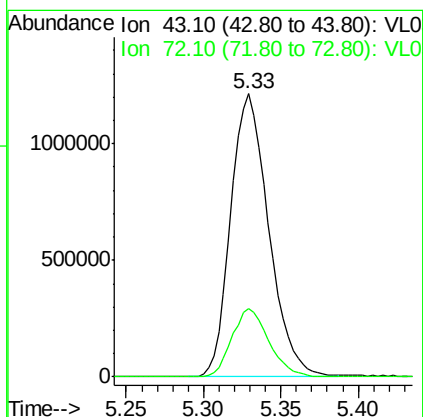
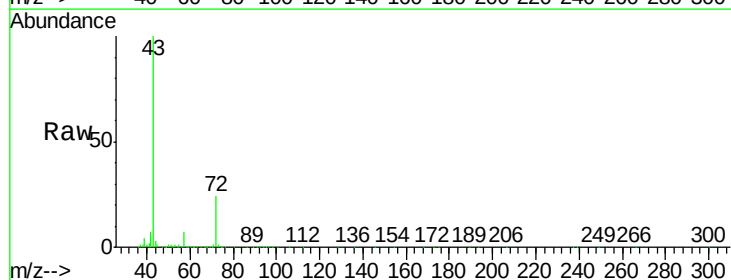
Manual Integrations
 APPROVED

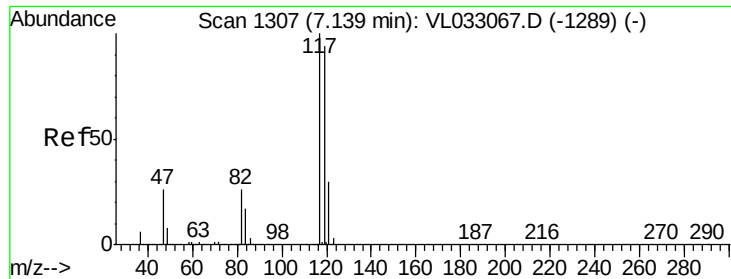
MMDadoda
 1/8/2019 12:00:59 AM



#34
 2-Butanone
 Concen: 8.971 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.9	28.3





#35

Carbon Tetrachloride

Concen: 8.355 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2845398

Ion Ratio Lower Upper

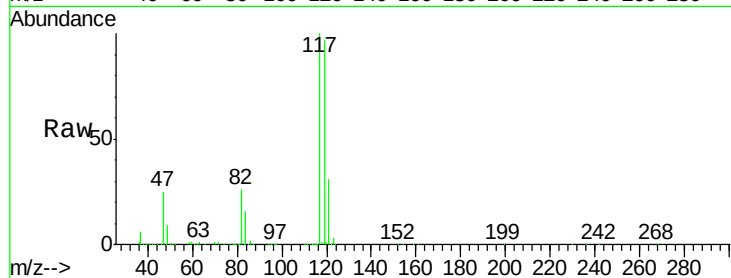
117 100

119 97.1 76.5 114.7

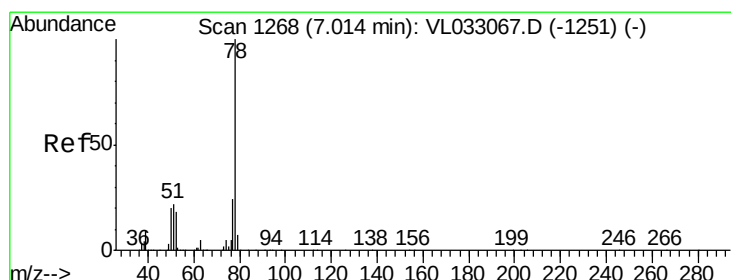
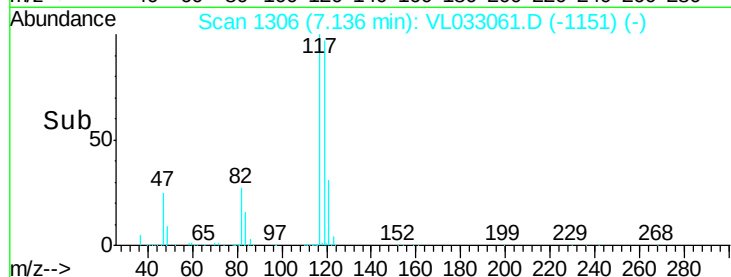
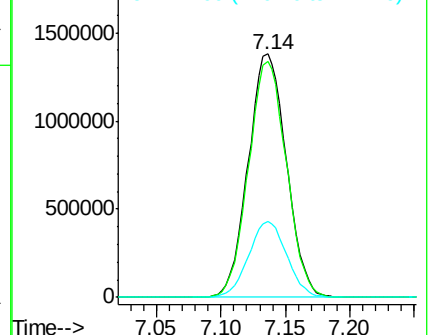
121 31.2 25.2 37.8

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:59 AM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.254 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

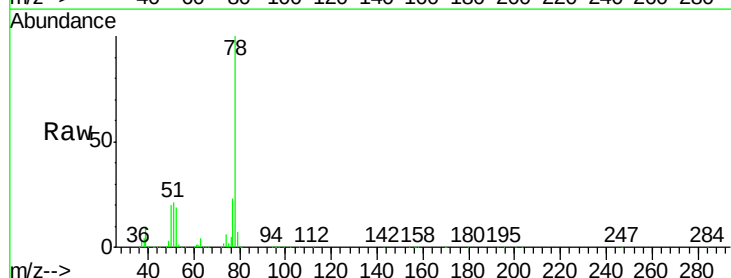
Tgt Ion: 78 Resp: 3003622

Ion Ratio Lower Upper

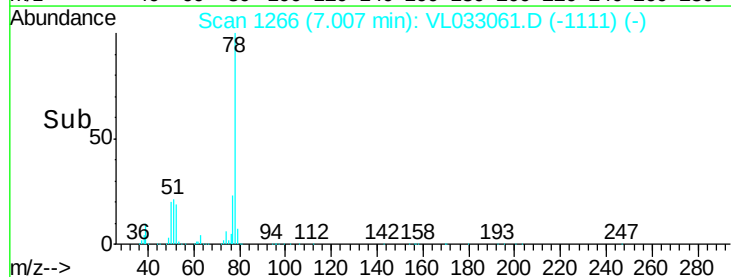
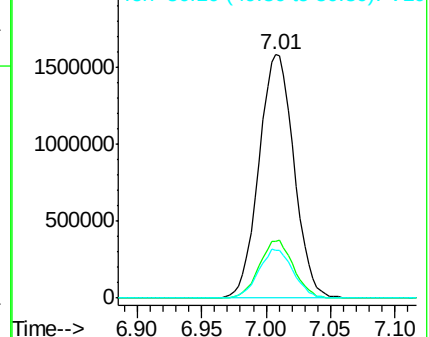
78 100

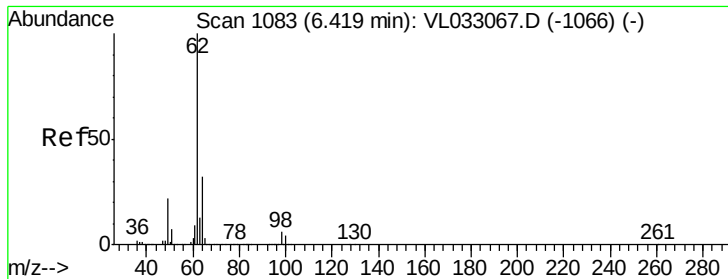
77 23.1 18.5 27.7

50 19.6 15.7 23.5



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





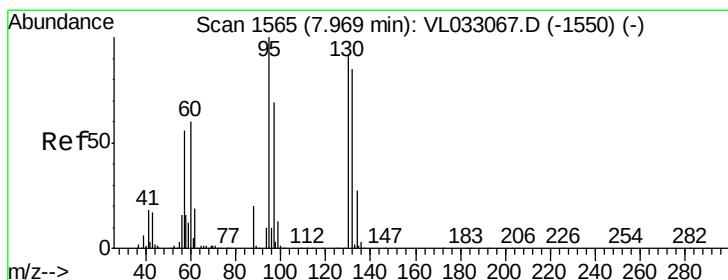
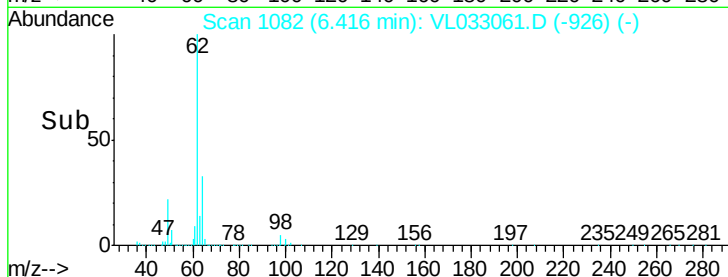
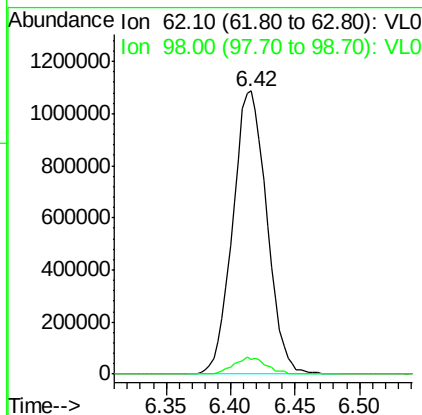
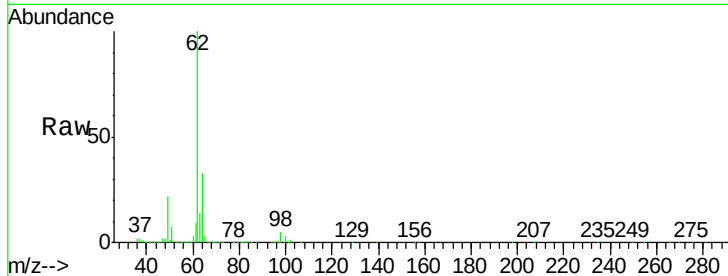
#37
 1,2-Dichloroethane
 Concen: 9.030 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 1994147
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.6 7.0

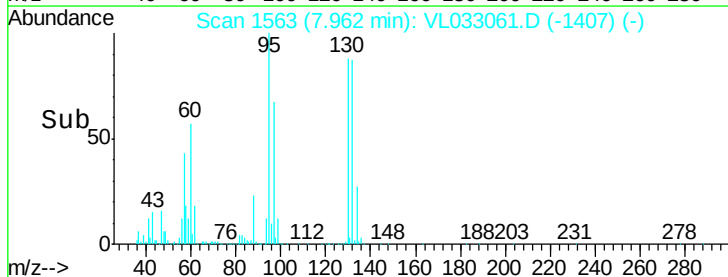
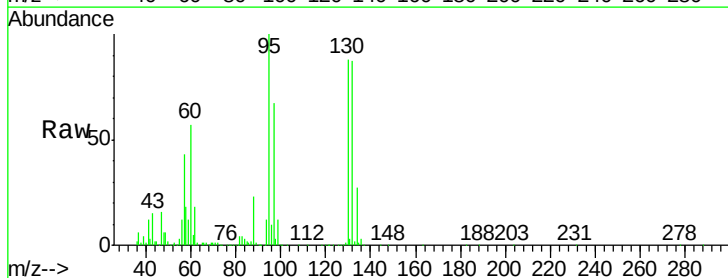
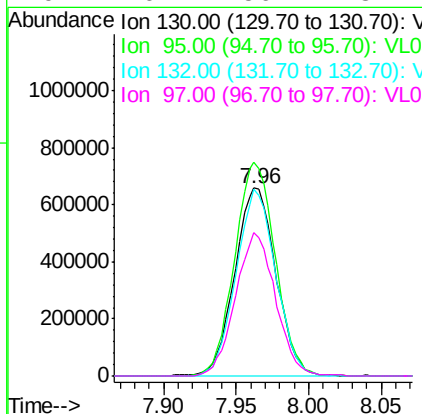
Manual Integrations
 APPROVED

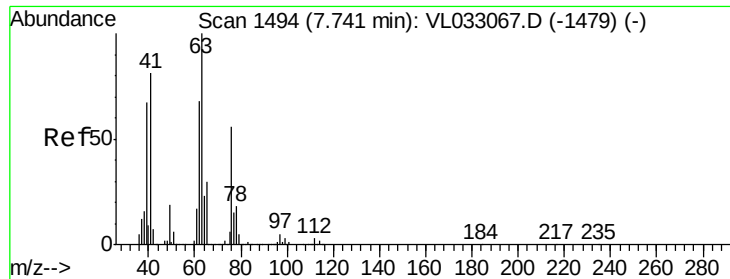
MMDadoda
 1/8/2019 12:00:59 AM



#38
 Trichloroethene
 Concen: 9.524 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion:130 Resp: 1291149
 Ion Ratio Lower Upper
 130 100
 95 113.5 88.6 132.8
 132 99.3 74.2 111.2
 97 76.2 56.2 84.2





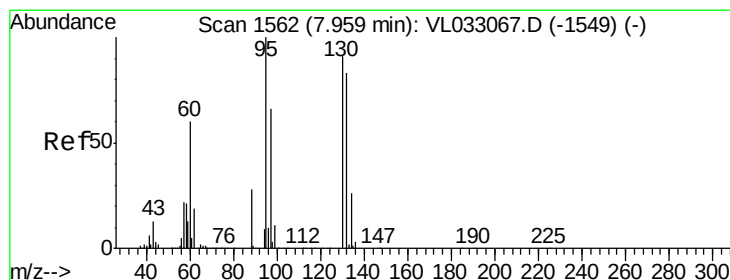
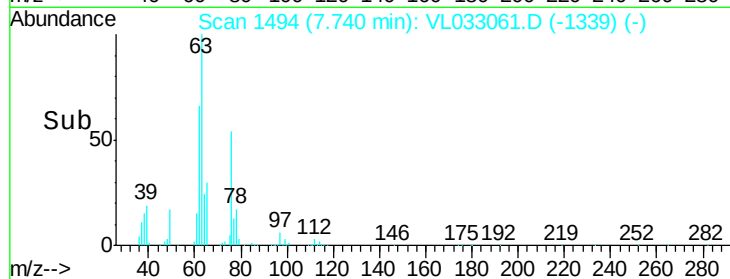
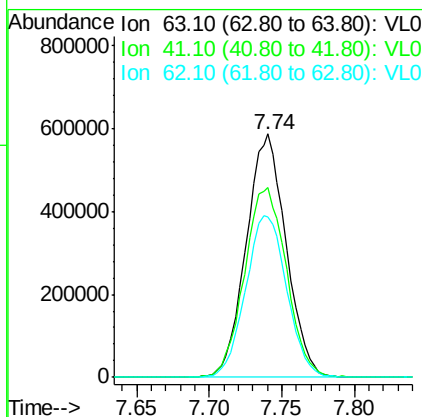
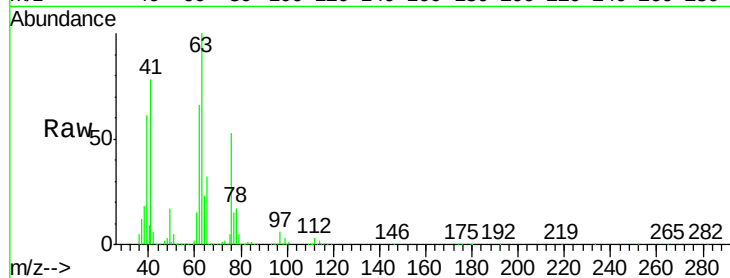
#39
 1,2-Dichloropropane
 Concen: 9.208 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.2	61.9	92.9
62	65.9	55.8	83.6

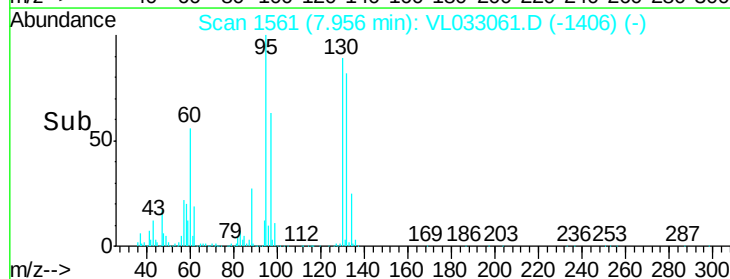
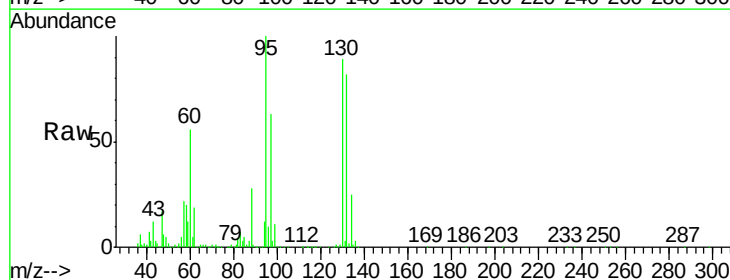
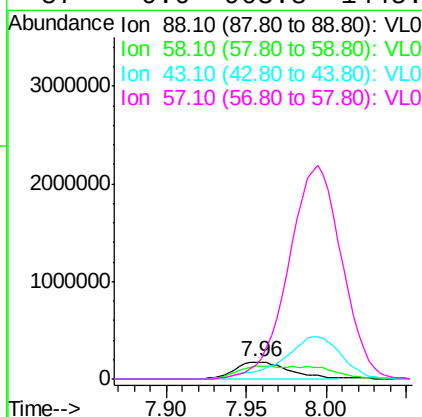
Manual Integrations
 APPROVED

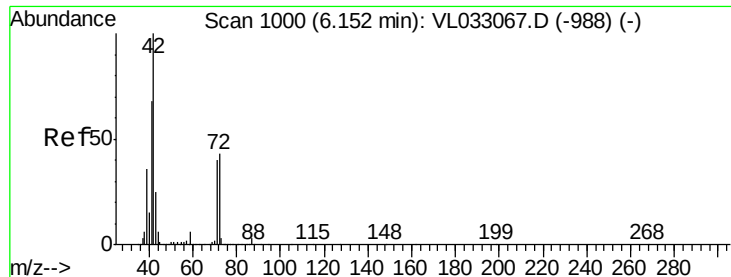
MMDadoda
 1/8/2019 12:00:59 AM



#40
 1,4-Dioxane
 Concen: 8.872 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion	Ratio	Lower	Upper
88	100		
58	127.9	101.9	152.9
43	0.0	212.6	319.0#
57	0.0	963.8	1445.6#





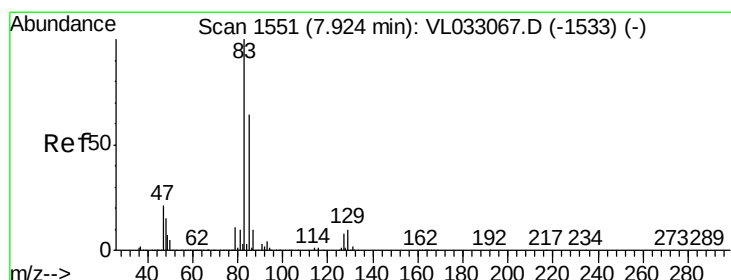
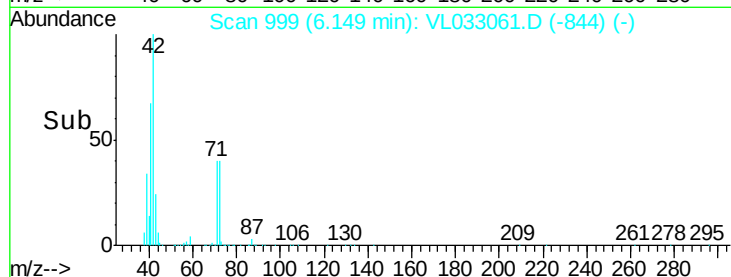
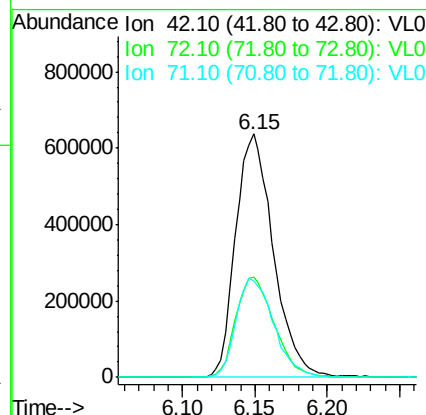
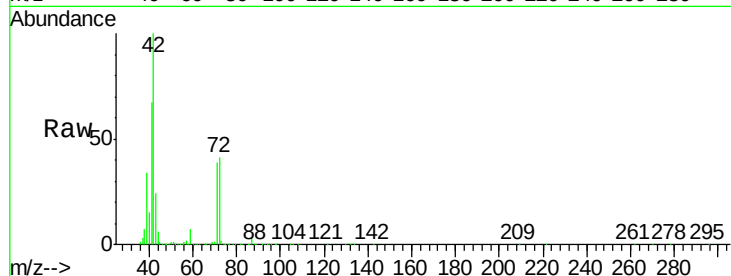
#41
Tetrahydrofuran
Concen: 9.797 ppbv
RT: 6.15 min Scan# 999
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.1	32.9	49.3
71	40.8	31.8	47.6

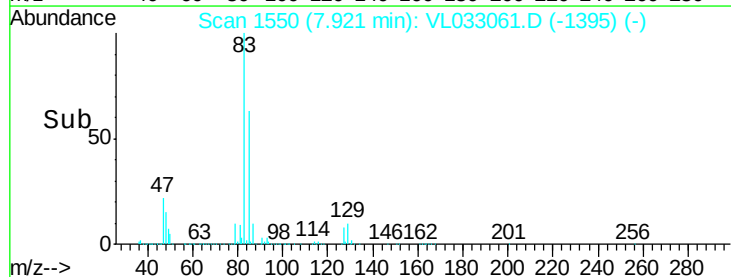
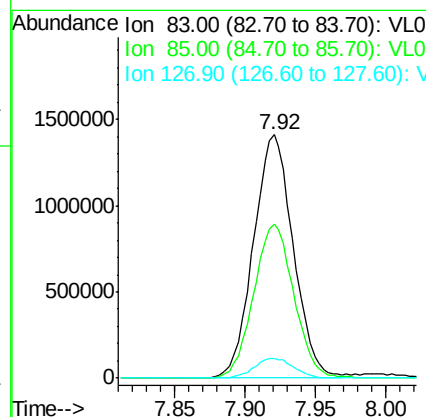
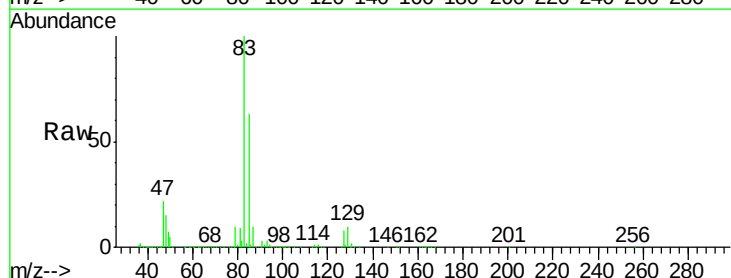
Manual Integrations
APPROVED

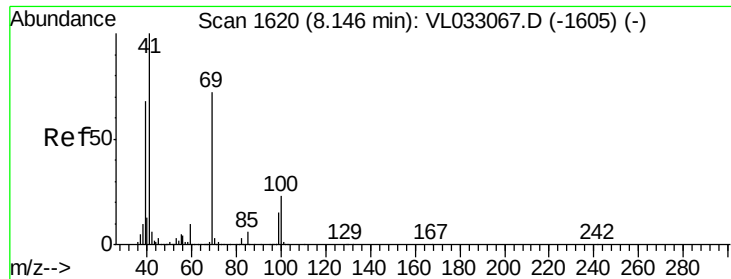
MMDadoda
1/8/2019 12:00:59 AM



#42
Bromodichloromethane
Concen: 8.745 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.0	76.4
127	8.2	6.5	9.7





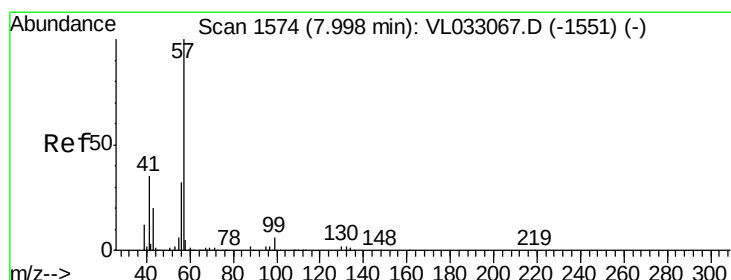
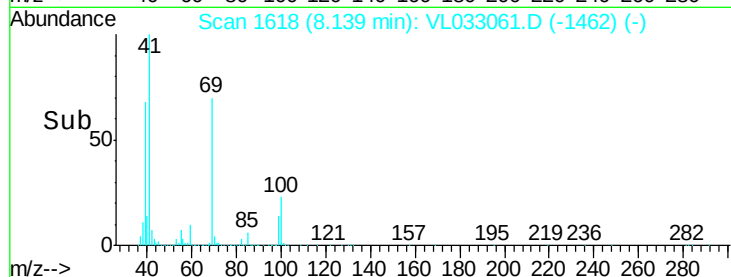
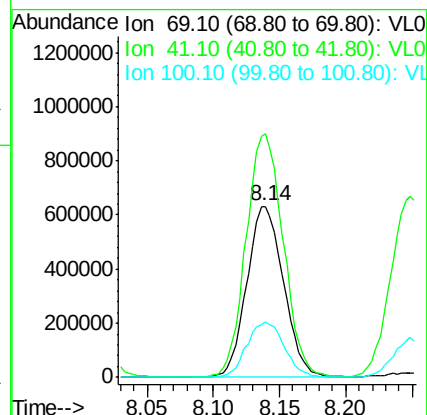
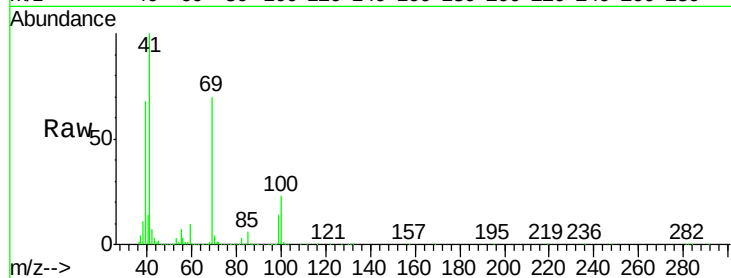
#43
Methyl Methacrylate
Concen: 10.070 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 69 Resp: 1218642
Ion Ratio Lower Upper
69 100
41 144.4 114.0 171.0
100 33.1 26.3 39.5

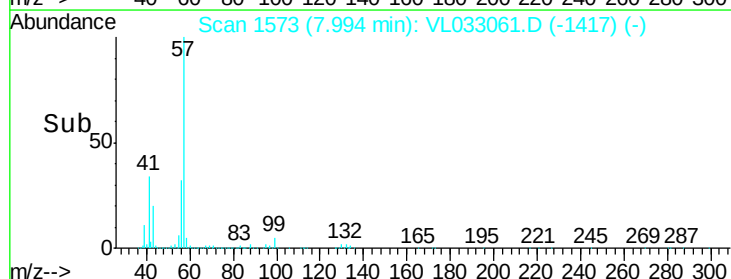
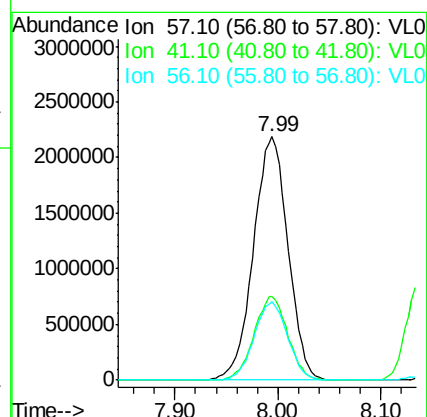
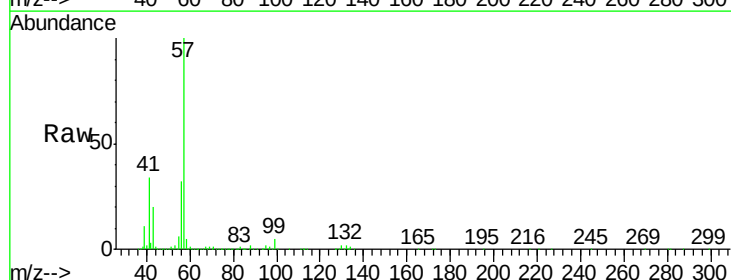
Manual Integrations
APPROVED

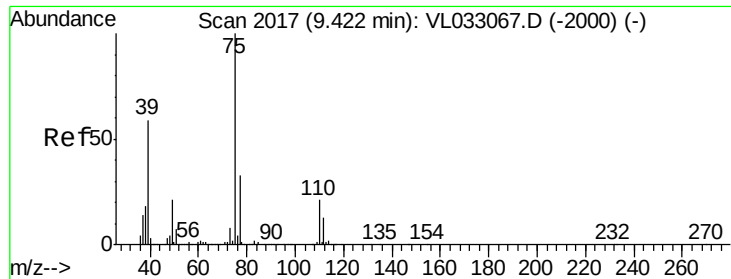
MMDadoda
1/8/2019 12:00:59 AM



#44
2,2,4-Trimethylpentane
Concen: 8.826 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion: 57 Resp: 5072027
Ion Ratio Lower Upper
57 100
41 33.5 26.2 39.2
56 31.3 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 10.271 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Tot Ion: 75 Resp: 1717726

Ion Ratio Lower Upper

75 100

77 31.4 24.8 37.2

Instrument :

MSVOA_L

ClientSampleId :

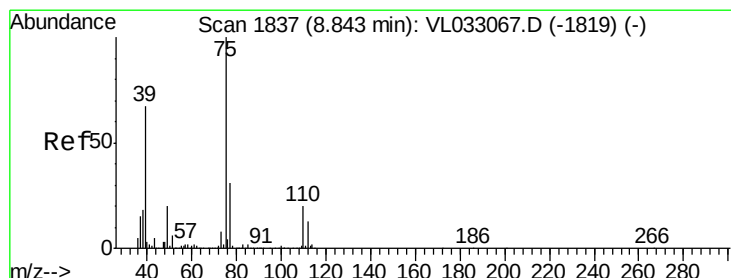
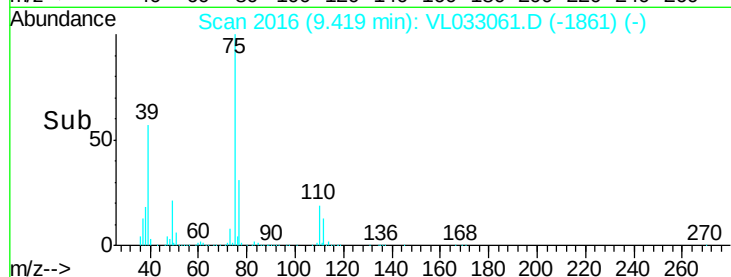
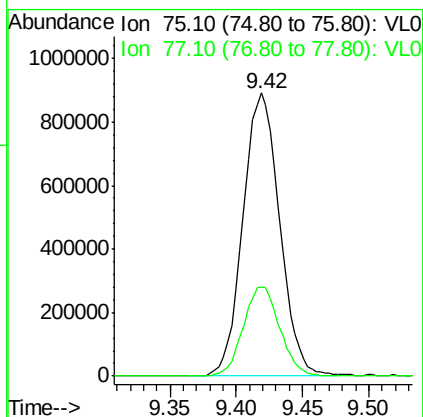
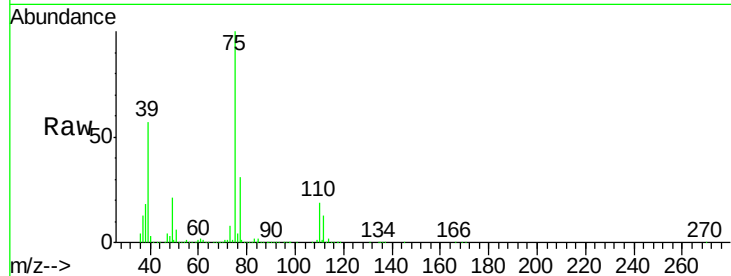
VSTDICCC010

Manual Integrations

APPROVED

MMDadoda

1/8/2019 12:00:59 AM



#46

cis-1,3-Dichloropropene

Concen: 10.711 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

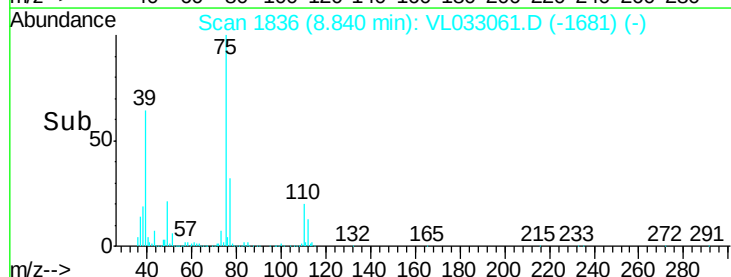
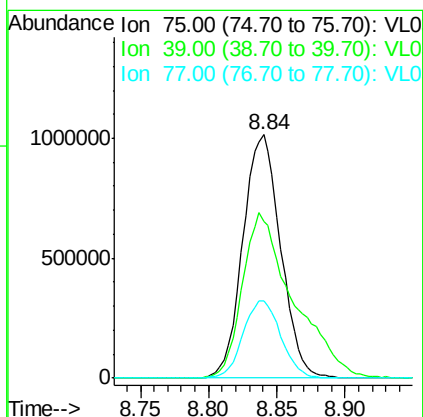
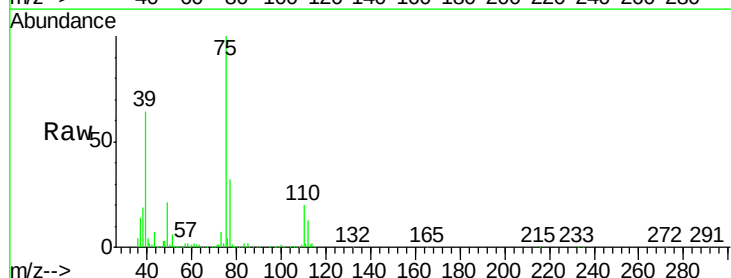
Tgt Ion: 75 Resp: 1947470

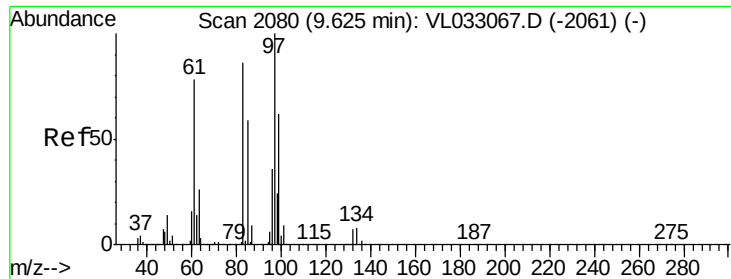
Ion Ratio Lower Upper

75 100

39 64.3 51.3 76.9

77 31.6 25.5 38.3





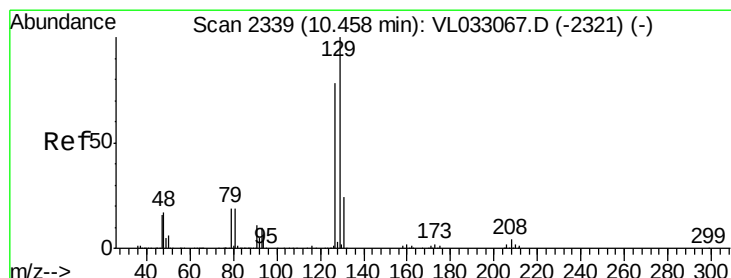
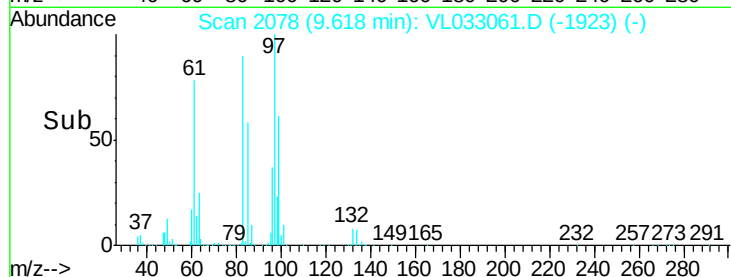
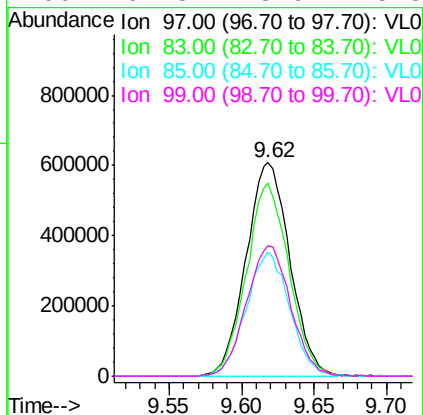
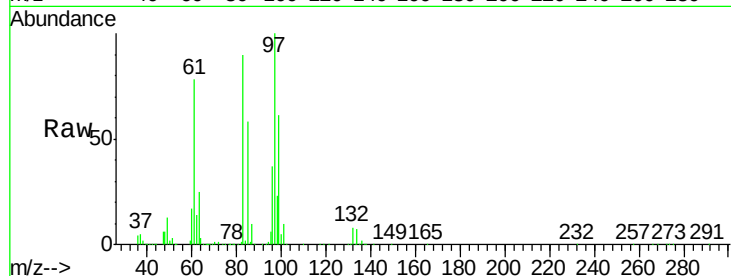
#47
 1,1,2-Trichloroethane
 Concen: 8.716 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.3	69.4	104.2
85	58.1	44.2	66.2
99	61.3	48.9	73.3

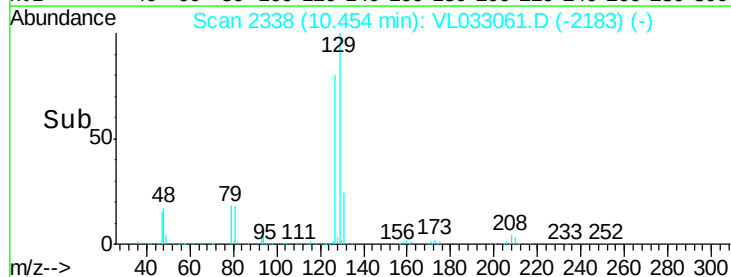
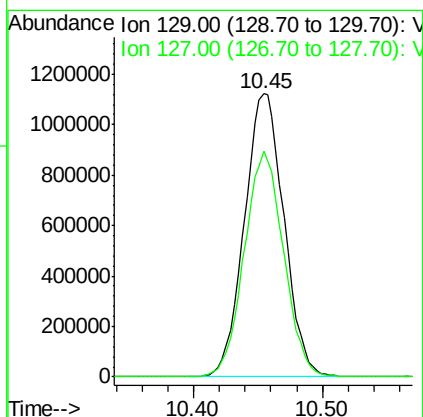
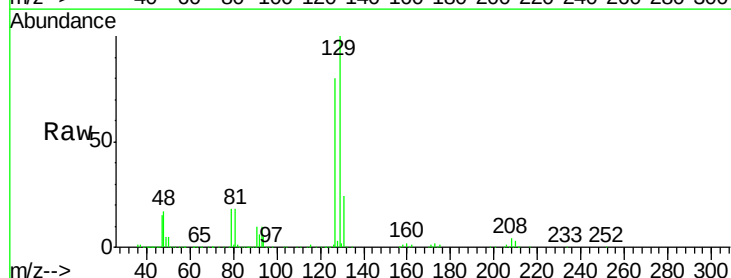
Manual Integrations
 APPROVED

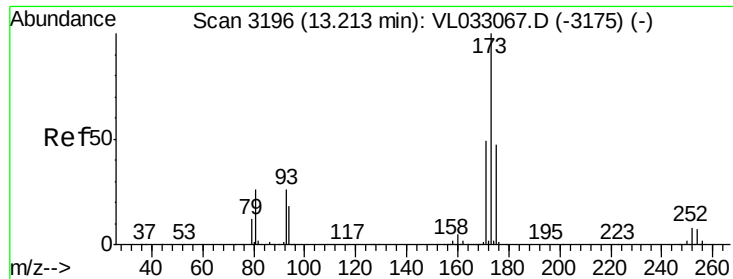
MMDadoda
 1/8/2019 12:00:59 AM



#48
 Dibromochloromethane
 Concen: 9.871 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.1	117.3





#49

Bromoform

Concen: 10.441 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:173 Resp: 2345896

Ion Ratio Lower Upper

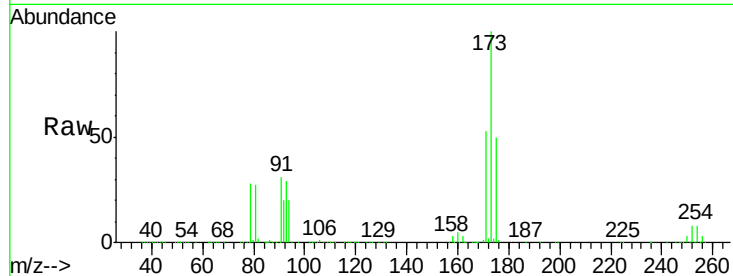
173 100

175 49.1 39.4 59.2

171 52.0 42.1 63.1

Manual Integrations
APPROVED

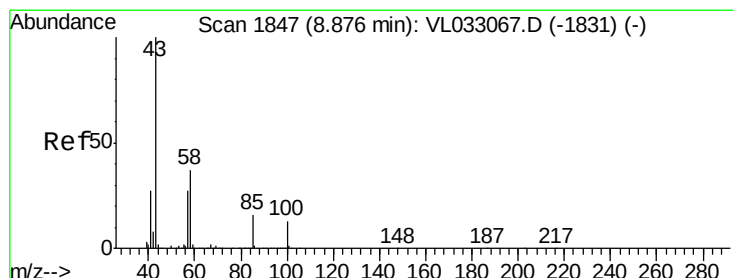
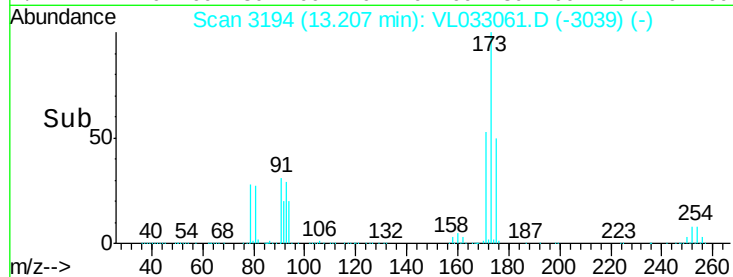
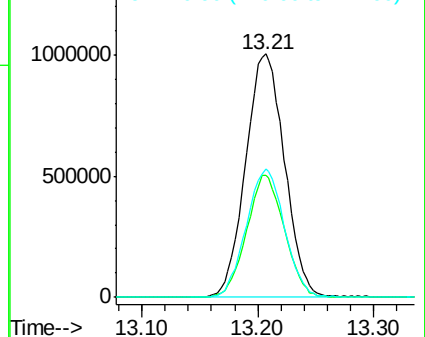
MMDadoda
1/8/2019 12:00:59 AM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.390 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033061.D

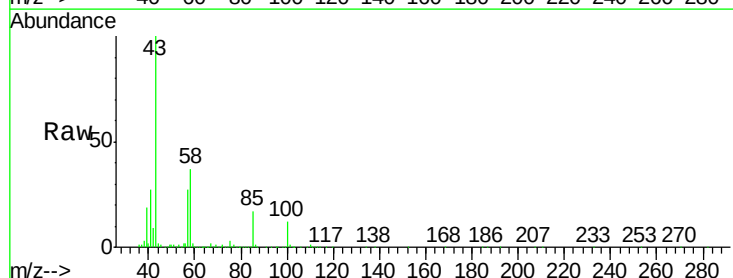
Acq: 4 Jan 2019 9:14

Tgt Ion: 43 Resp: 2907617

Ion Ratio Lower Upper

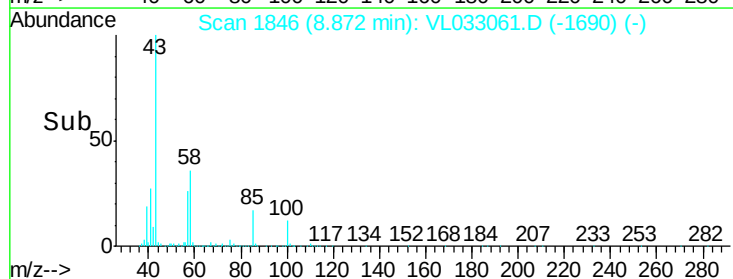
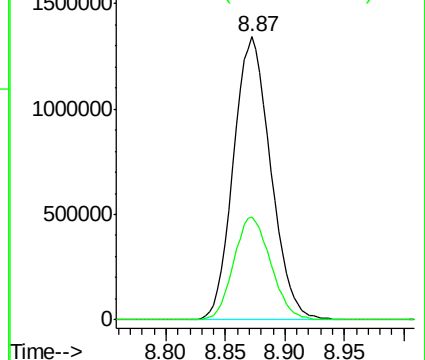
43 100

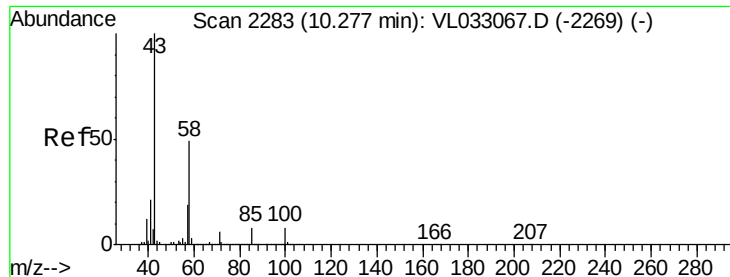
58 36.4 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.595 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2216554

Ion Ratio Lower Upper

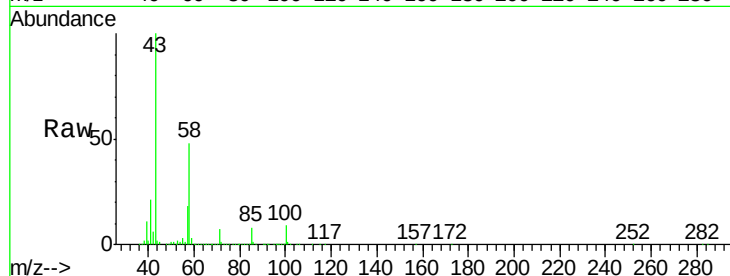
43 100

58 48.7 39.0 58.6

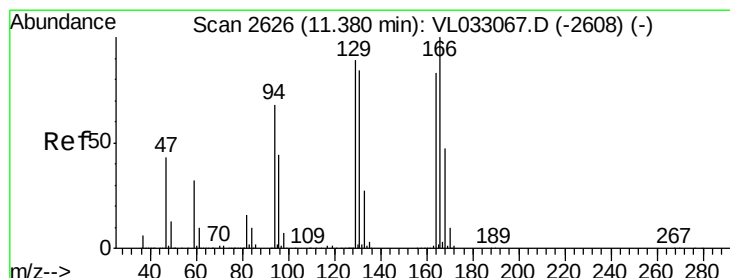
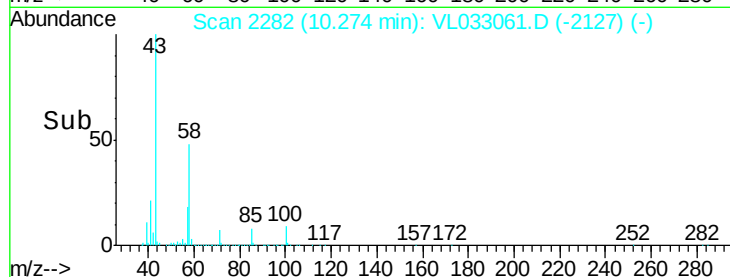
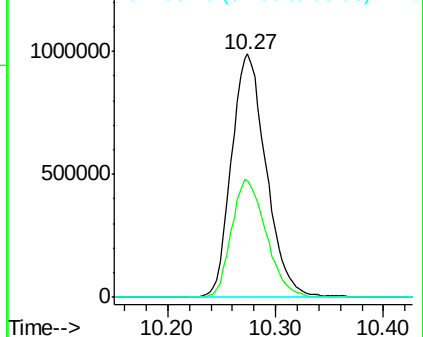
98 0.5 0.4 0.6

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:59 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.493 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Tgt Ion:164 Resp: 1115322

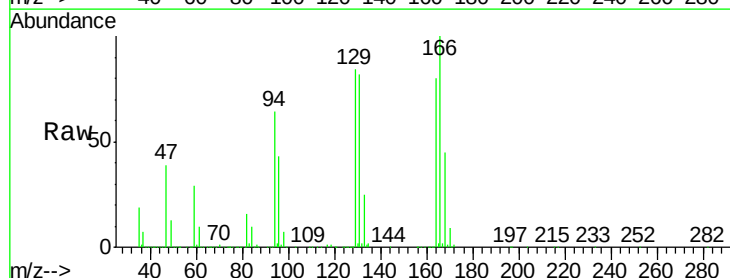
Ion Ratio Lower Upper

164 100

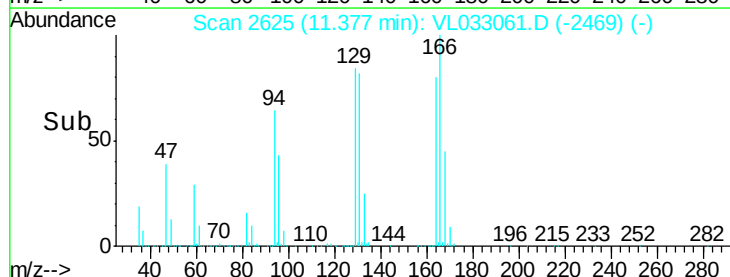
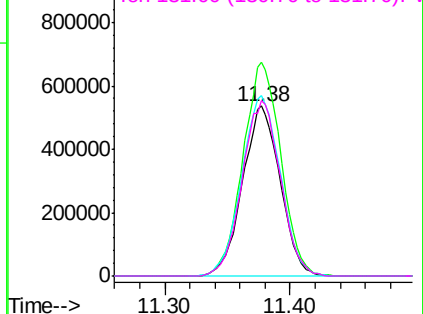
166 125.4 100.8 151.2

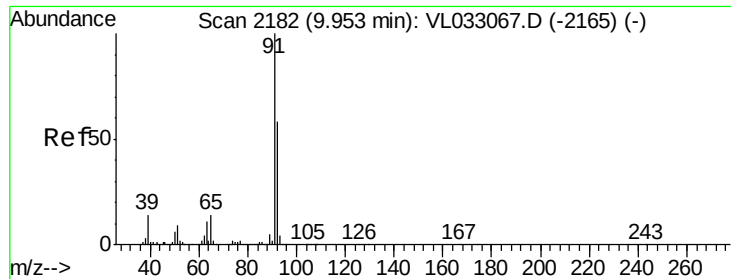
129 105.9 84.6 126.8

131 103.3 80.7 121.1



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.591 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 3538591

Ion Ratio Lower Upper

91 100

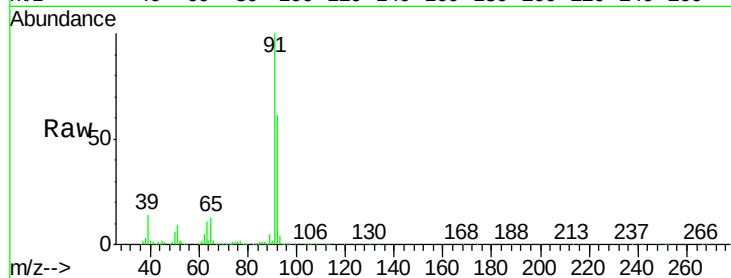
92 60.2 47.7 71.5

Manual Integrations

APPROVED

MMDadoda

1/8/2019 12:00:59 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

2000000

1500000

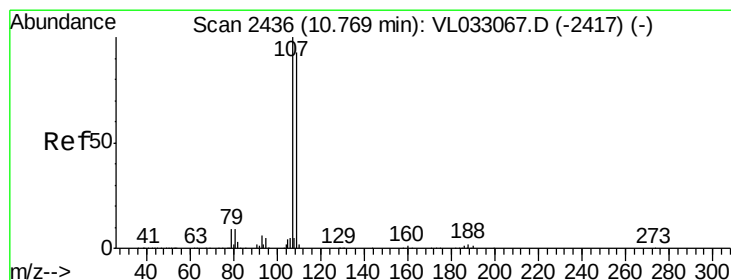
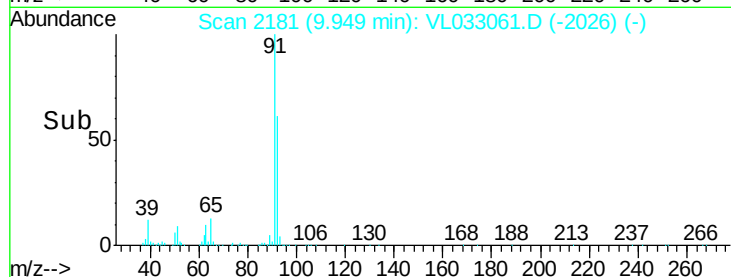
1000000

500000

0

9.90 9.95 10.00

Time-->



#54

1,2-Dibromoethane

Concen: 9.478 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033061.D

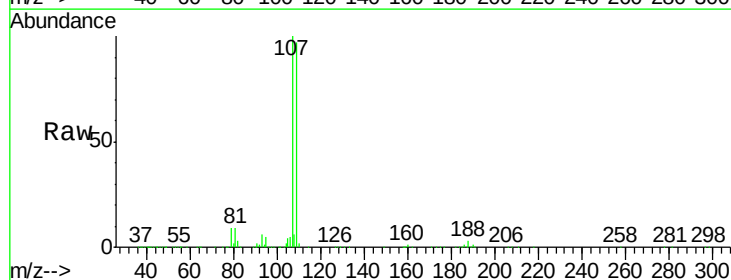
Acq: 4 Jan 2019 9:14

Tgt Ion: 107 Resp: 2023912

Ion Ratio Lower Upper

107 100

109 96.8 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

1000000

800000

600000

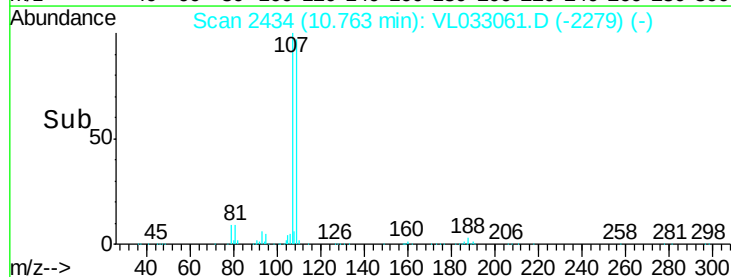
400000

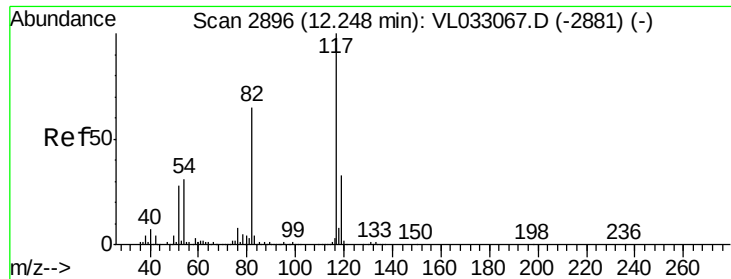
200000

0

10.70 10.76 10.80

Time-->





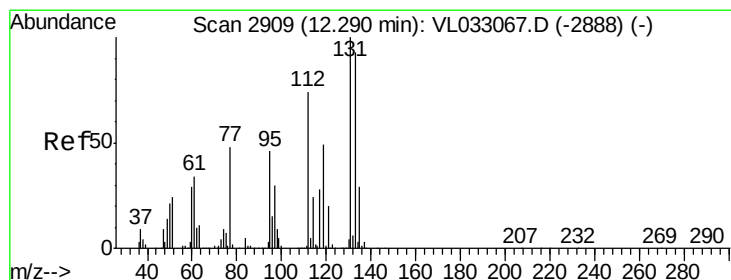
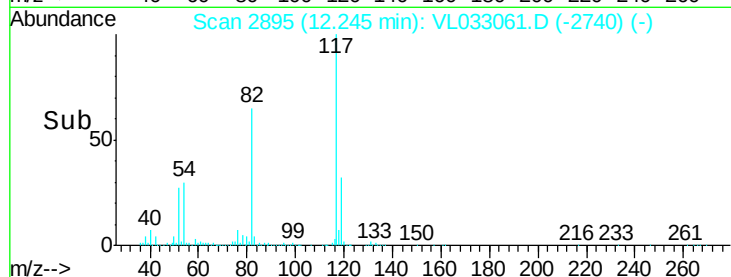
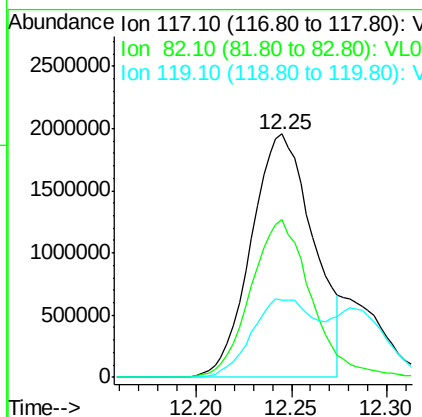
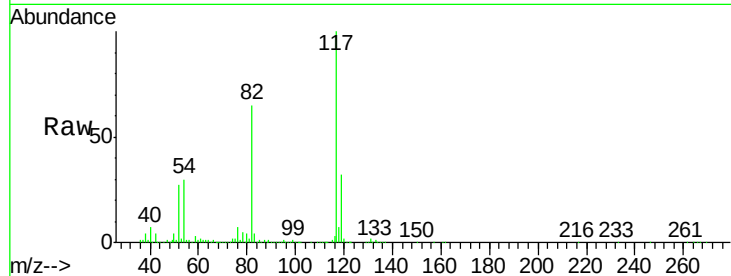
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 4444748
Ion Ratio Lower Upper
117 100
82 63.1 48.9 73.3
119 57.6 24.6 37.0#

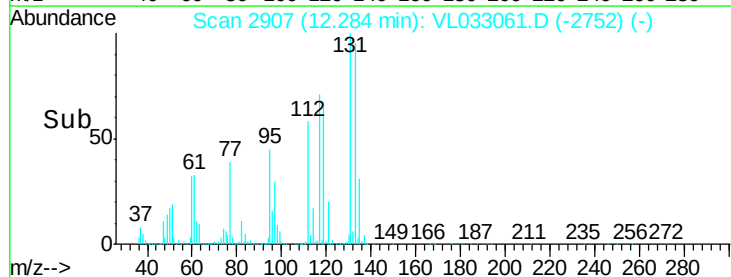
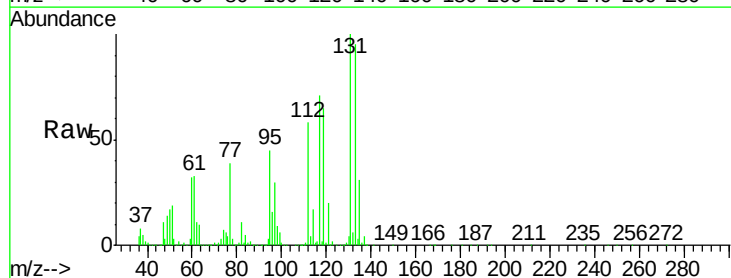
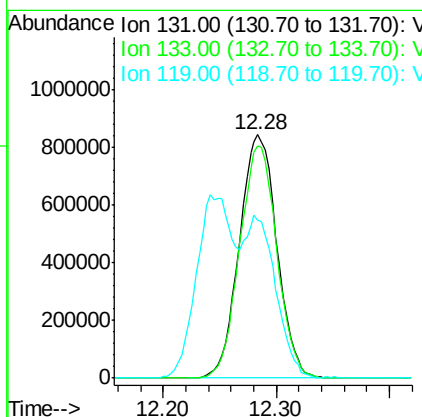
Manual Integrations
APPROVED

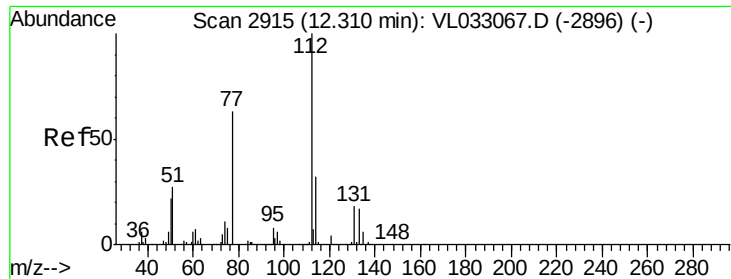
MMDadoda
1/8/2019 12:00:59 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.634 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion:131 Resp: 1942270
Ion Ratio Lower Upper
131 100
133 94.9 76.0 114.0
119 55.7 44.2 66.2





#57

Chlorobenzene

Concen: 8.847 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 3188428

Ion Ratio Lower Upper

112 100

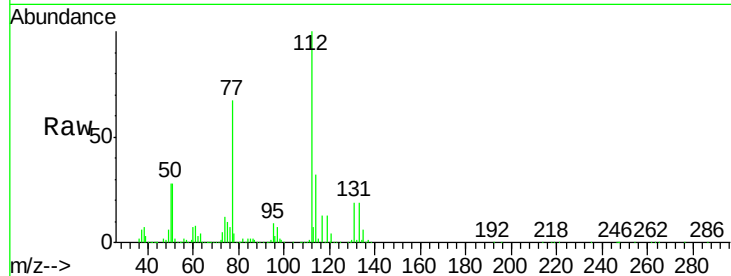
77 66.7 53.4 80.0

114 31.9 30.0 36.6

Manual Integrations
APPROVED

MMDadoda

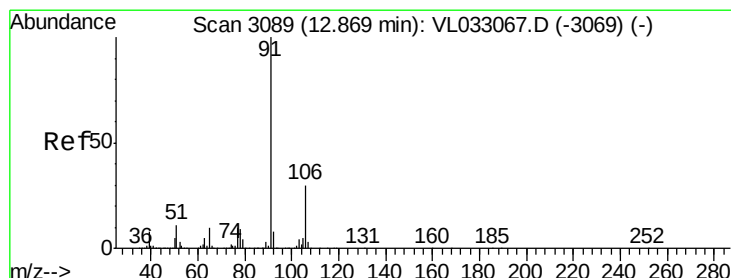
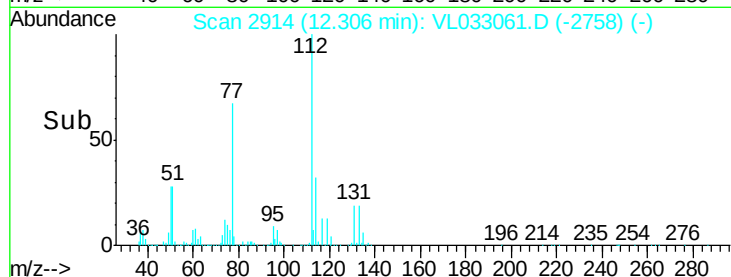
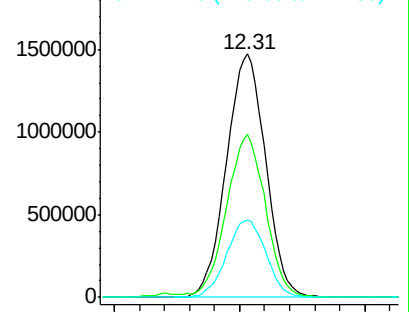
1/8/2019 12:00:59 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.130 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL033061.D

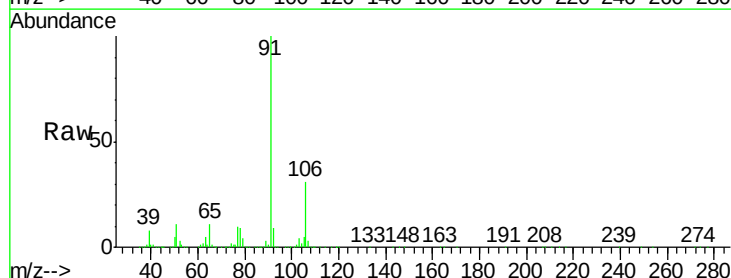
Acq: 4 Jan 2019 9:14

Tgt Ion: 91 Resp: 5539074

Ion Ratio Lower Upper

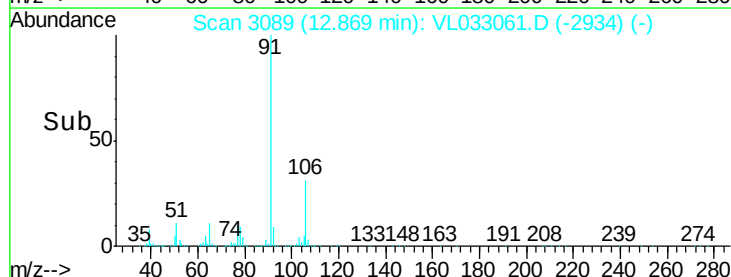
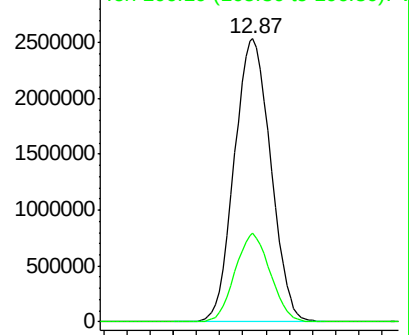
91 100

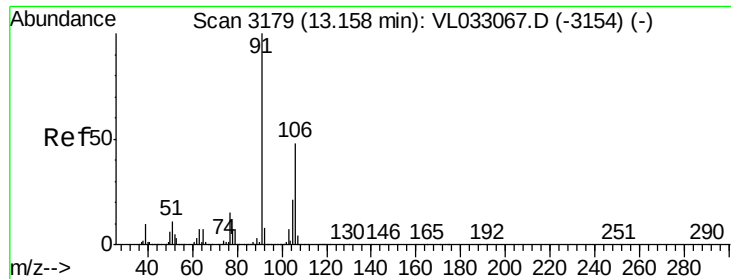
106 31.4 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





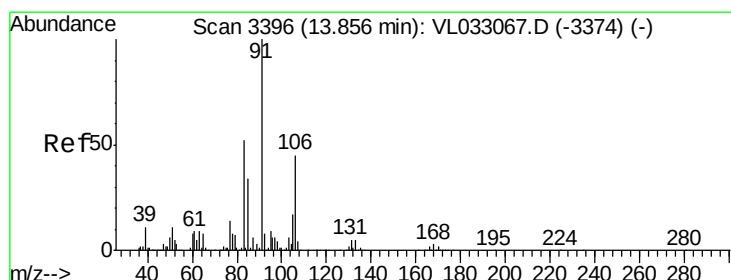
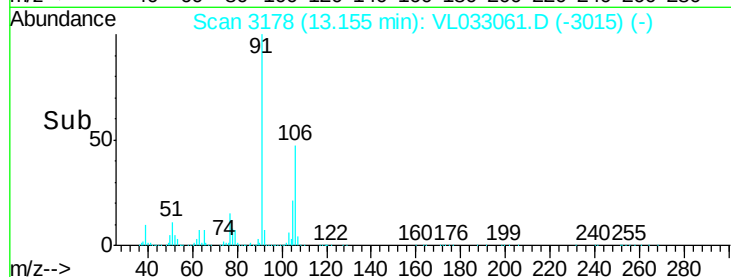
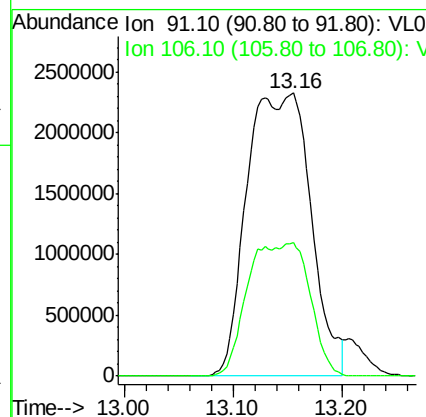
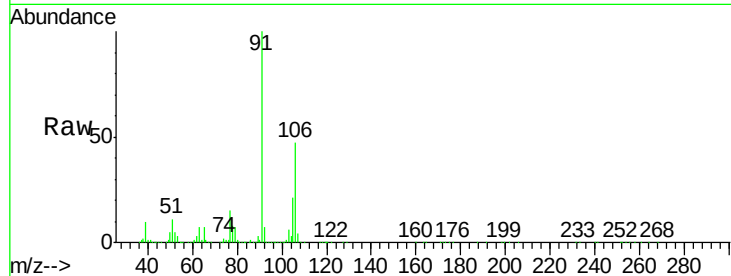
#59
m/p-Xylene
Concen: 18.622 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. 0.02 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 9456207
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

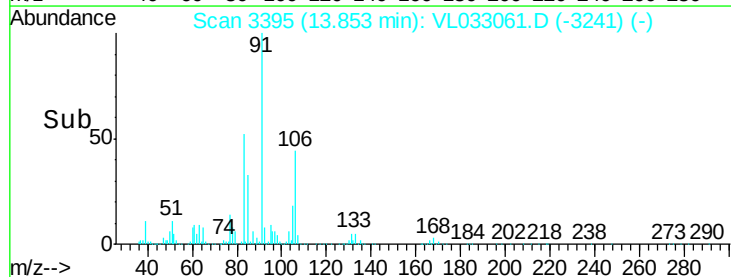
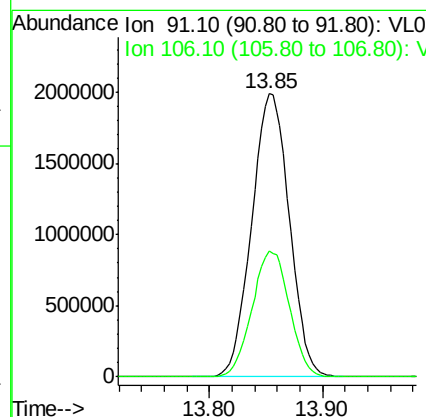
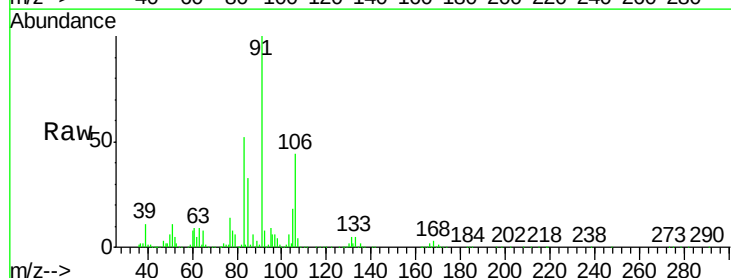
Manual Integrations
APPROVED

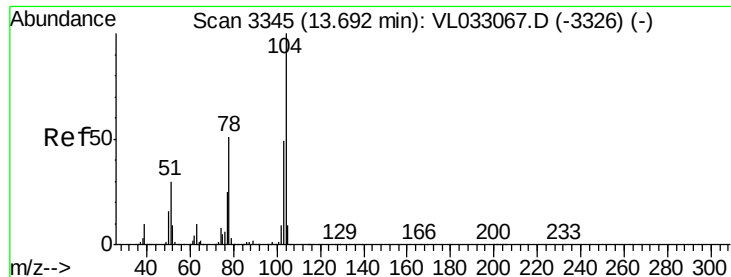
MMDadoda
1/8/2019 12:00:59 AM



#60
o-Xylene
Concen: 9.237 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion: 91 Resp: 4584928
Ion Ratio Lower Upper
91 100
106 44.3 22.1 66.5





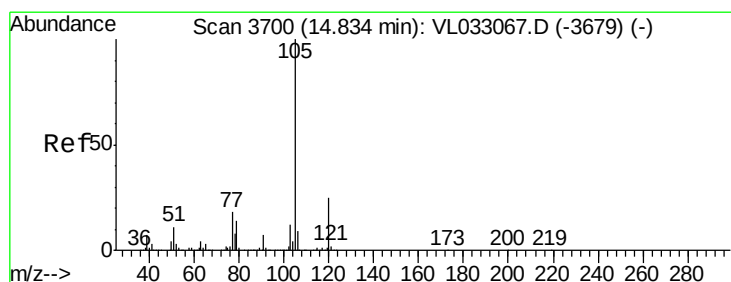
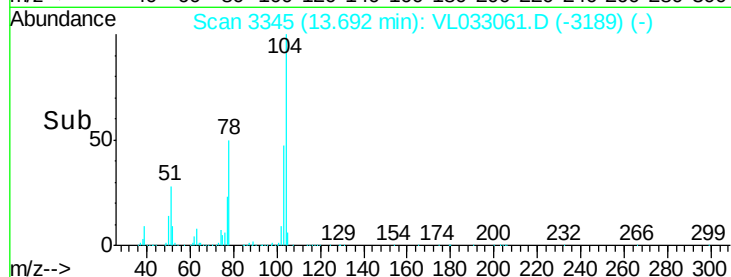
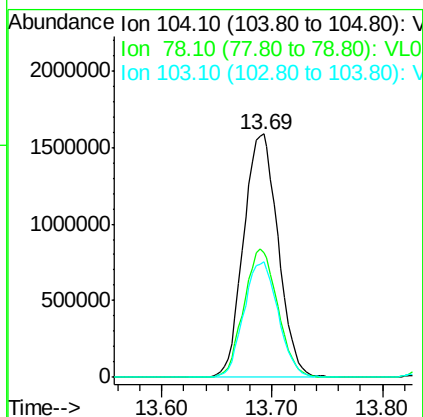
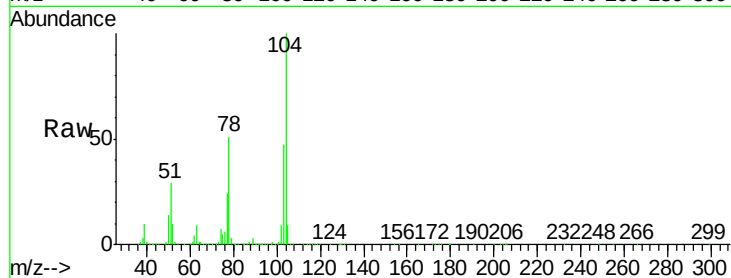
#61
Stvrene
Concen: 10.730 ppbv
RT: 13.69 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:104 Resp: 3434871
Ion Ratio Lower Upper
104 100
78 52.0 41.6 62.4
103 47.3 38.1 57.1

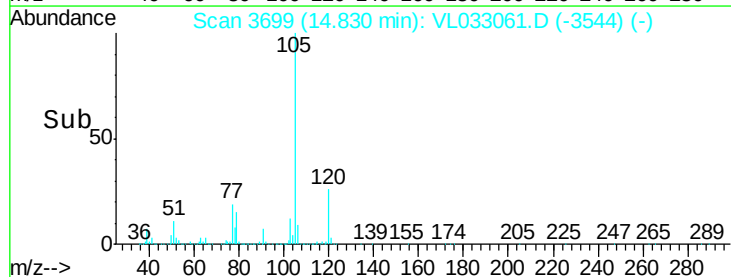
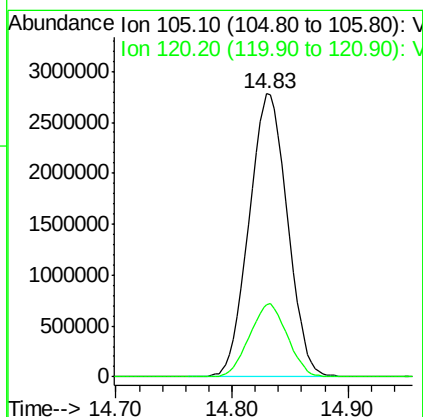
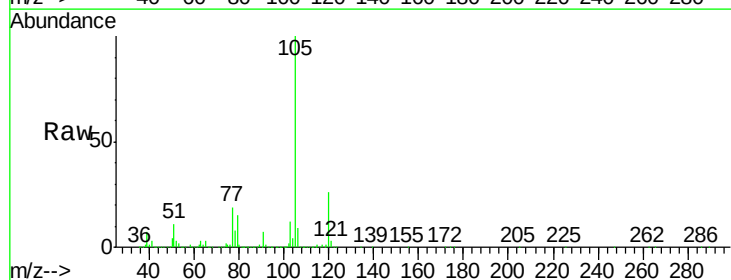
Manual Integrations
APPROVED

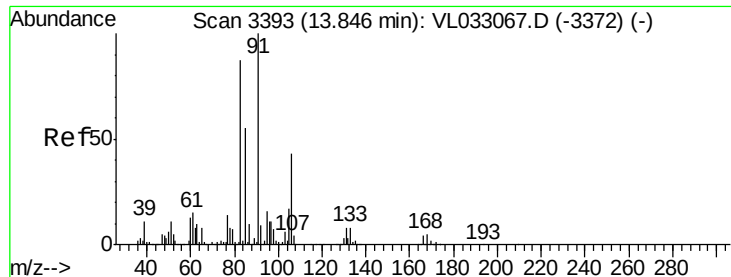
MMDadoda
1/8/2019 12:00:59 AM



#62
Isopropylbenzene
Concen: 9.040 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion:105 Resp: 6409242
Ion Ratio Lower Upper
105 100
120 25.5 20.4 30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 7.991 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 83 Resp: 3104891

Ion Ratio Lower Upper

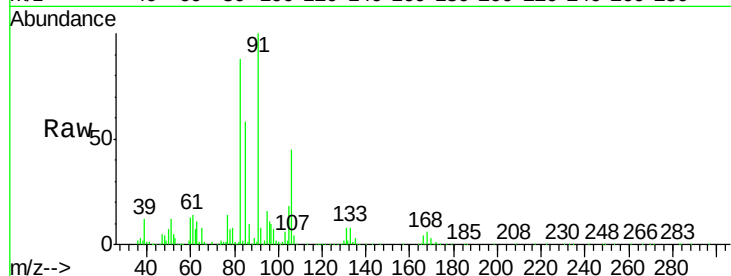
83 100

131 9.8 4.8 14.4

85 65.2 32.6 97.8

Manual Integrations
APPROVED

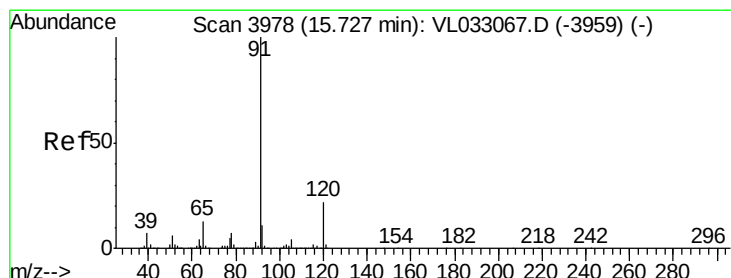
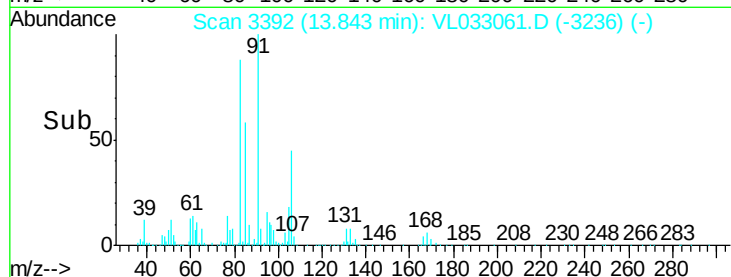
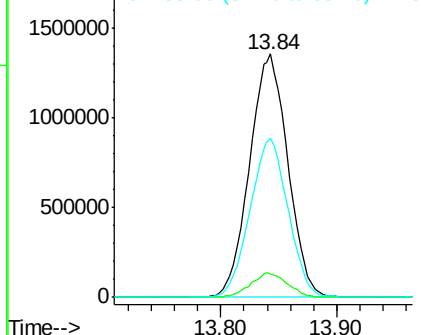
MMDadoda
1/8/2019 12:00:59 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.398 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. 0.00 min

Lab File: VL033061.D

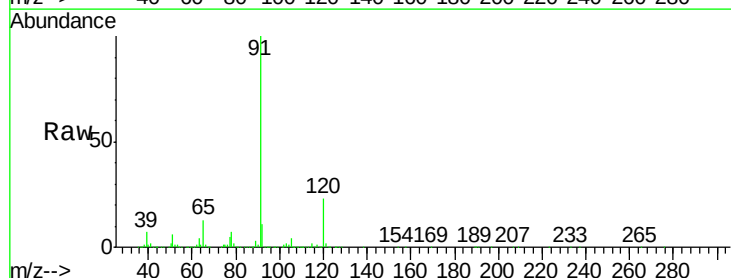
Acq: 4 Jan 2019 9:14

Tgt Ion:120 Resp: 1643024

Ion Ratio Lower Upper

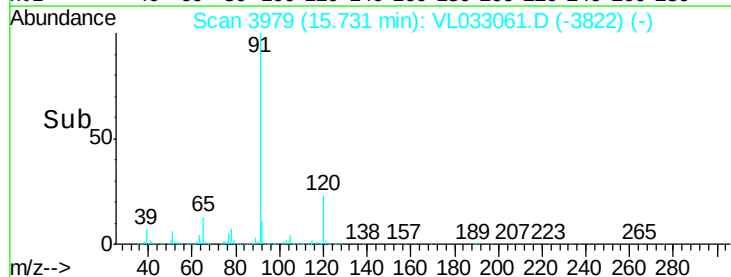
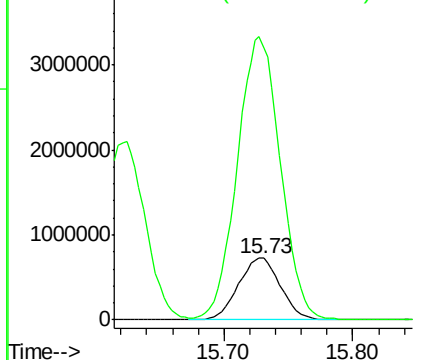
120 100

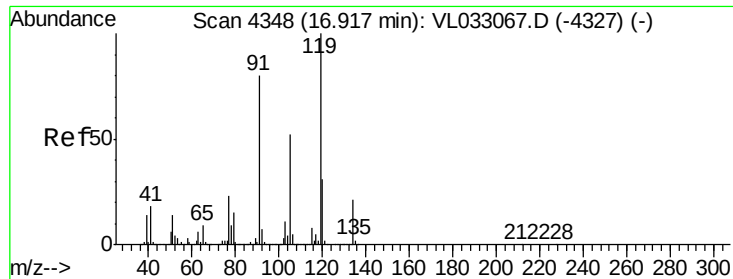
91 471.1 378.7 568.1



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





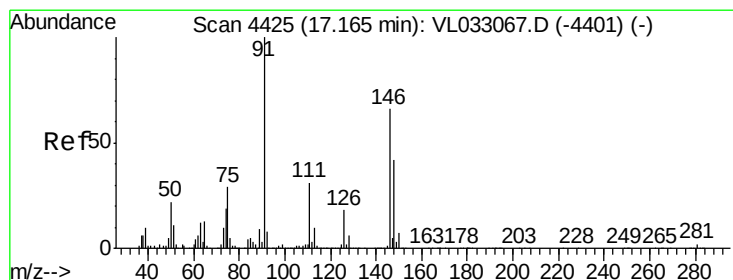
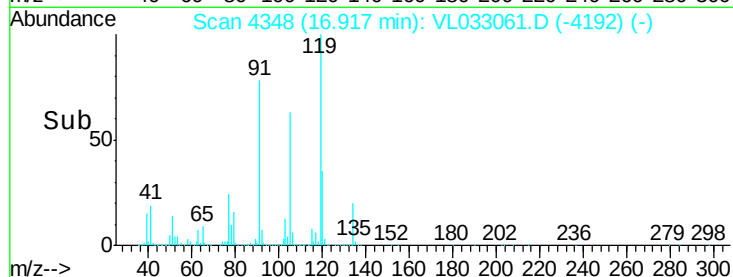
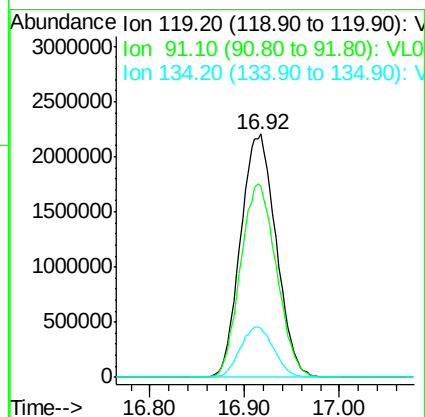
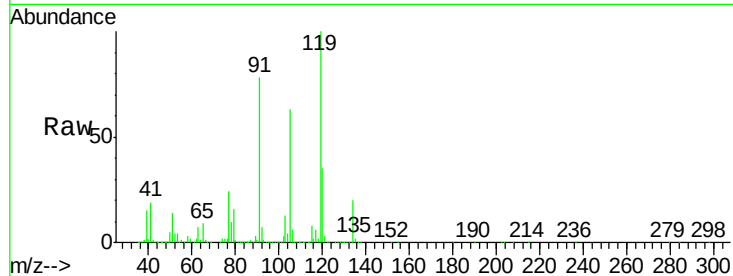
#65
 tert-Butylbenzene
 Concen: 9.097 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 119 Resp: 5741020
 Ion Ratio Lower Upper
 119 100
 91 80.8 64.6 97.0
 134 19.7 15.8 23.8

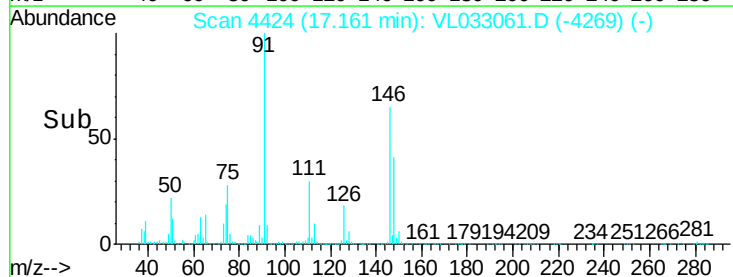
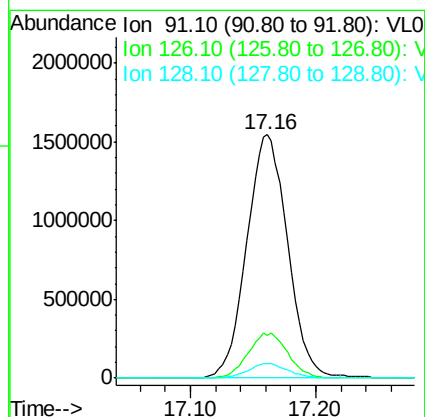
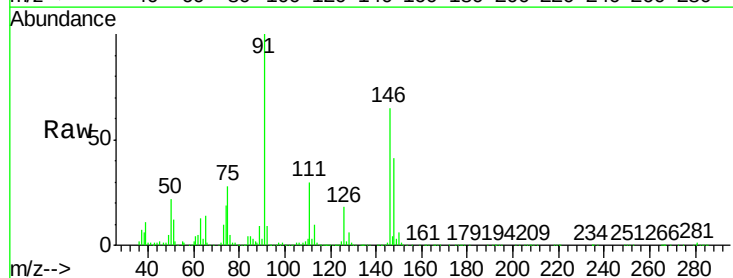
Manual Integrations
 APPROVED

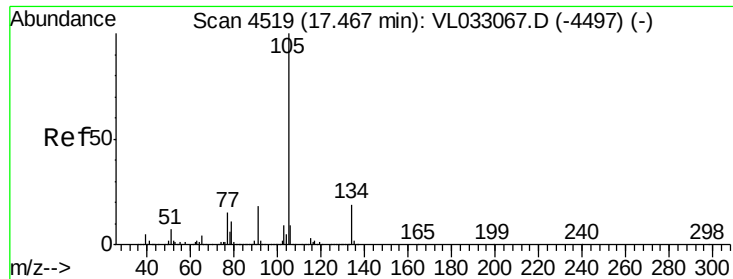
MMDadoda
 1/8/2019 12:00:59 AM



#66
 Benzyl Chloride
 Concen: 9.848 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion: 91 Resp: 3493216
 Ion Ratio Lower Upper
 91 100
 126 18.1 14.4 21.6
 128 5.8 4.5 6.7





#67

sec-Butylbenzene

Concen: 8.921 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 7938040

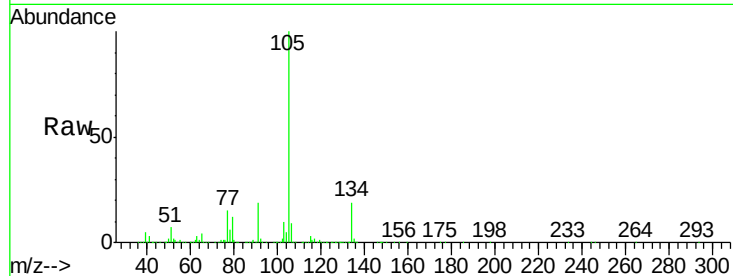
Ion Ratio Lower Upper

105 100

134 18.3 14.6 21.8

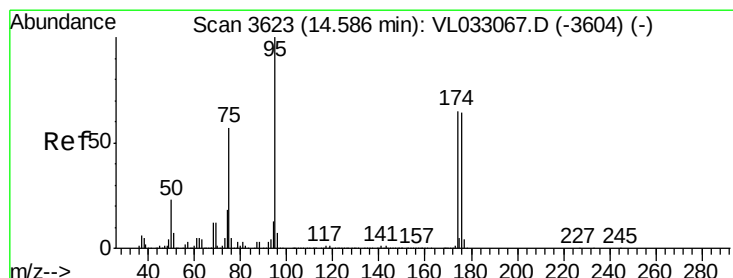
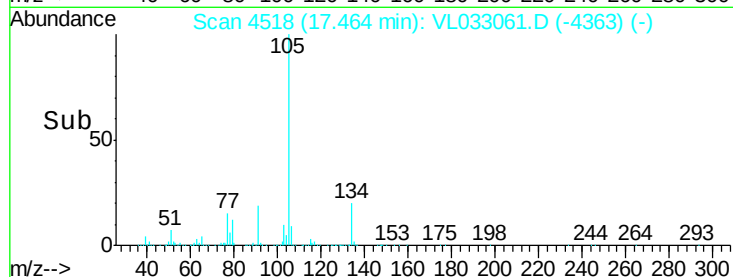
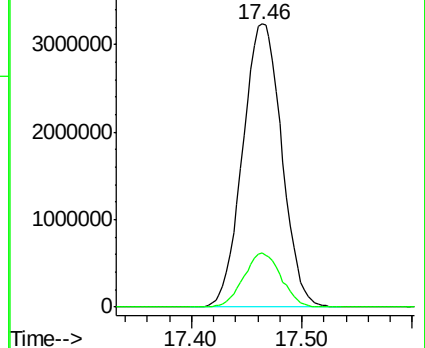
Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:59 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: 10.168 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

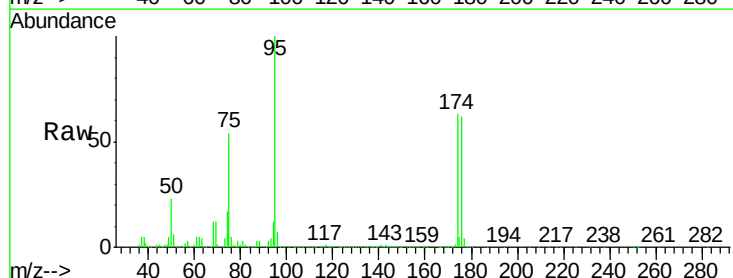
Tgt Ion: 95 Resp: 3370965

Ion Ratio Lower Upper

95 100

174 64.3 51.9 77.9

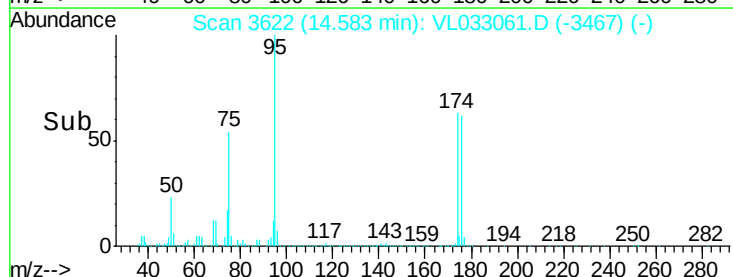
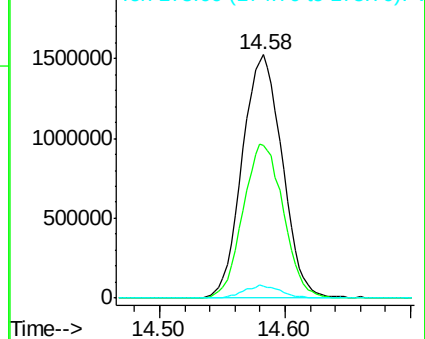
175 4.8 3.9 5.9

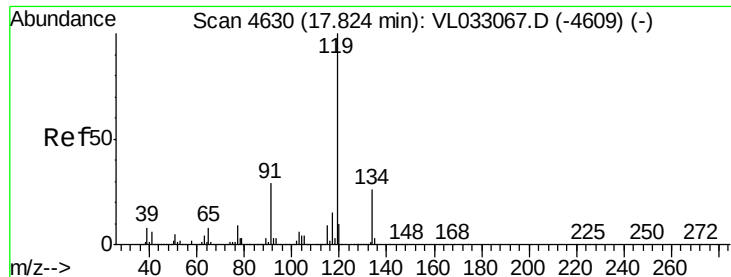


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





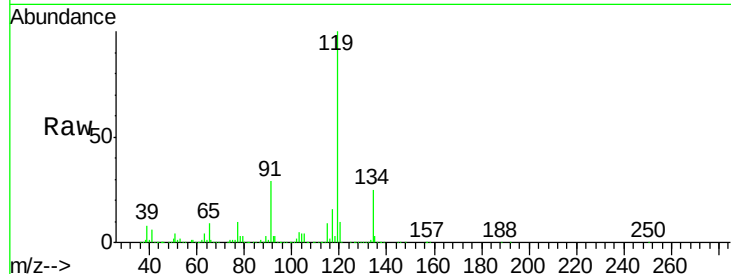
#69
 p-Isopropyltoluene
 Concen: 9.185 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

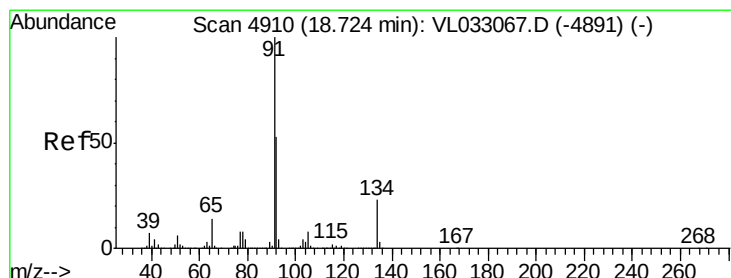
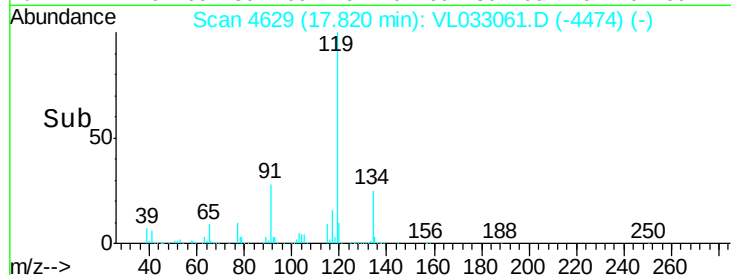
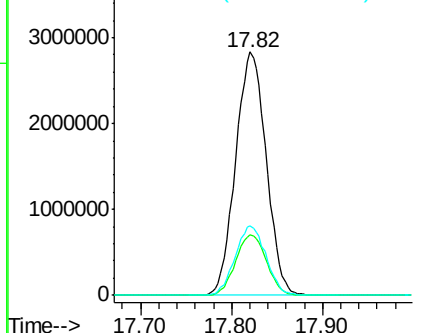
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.1	30.1
91	28.7	23.0	34.4

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:00:59 AM

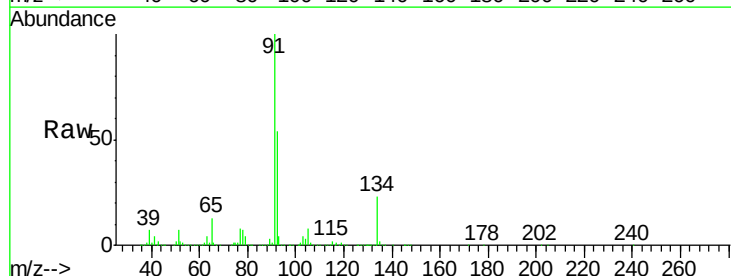


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

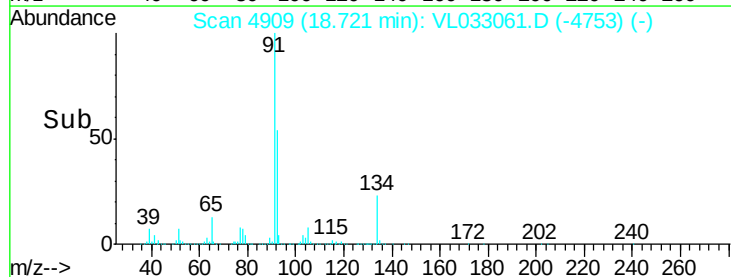
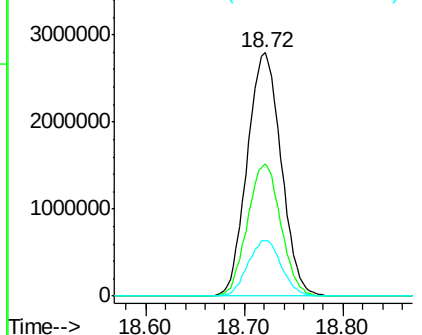


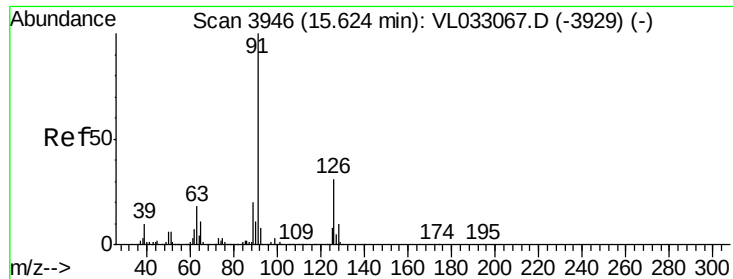
#70
 n-Butylbenzene
 Concen: 9.014 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	42.4	63.6
134	22.7	18.0	27.0



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: 9.530 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4786403

Ion Ratio Lower Upper

91 100

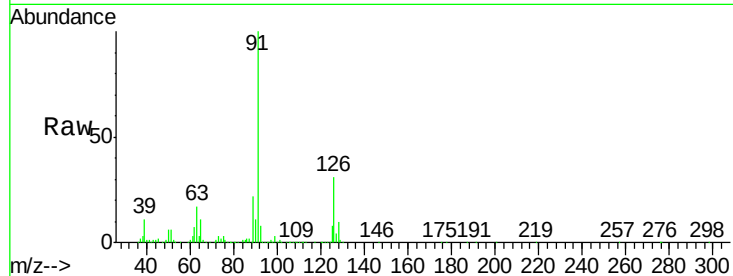
126 31.0 12.4 49.6

Manual Integrations

APPROVED

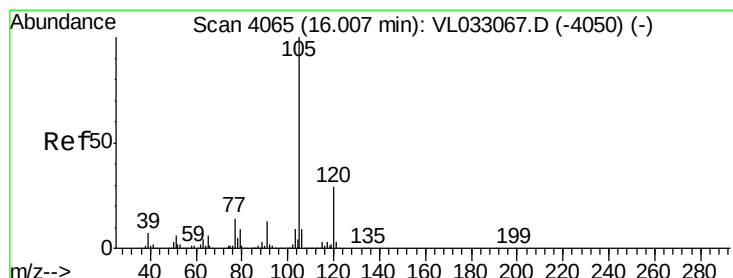
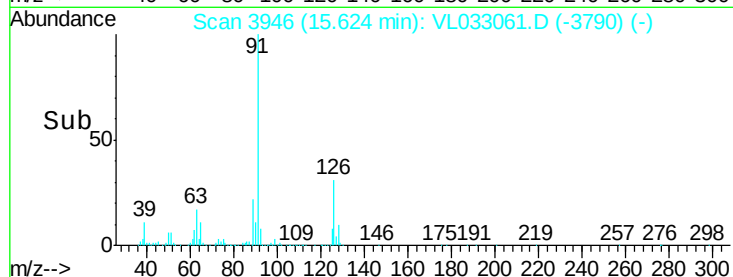
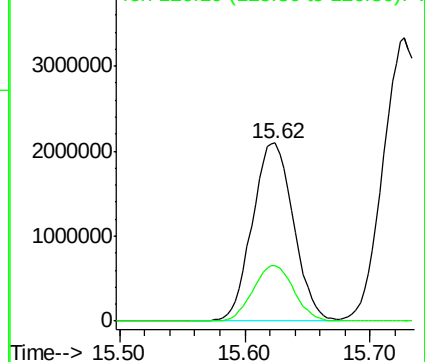
MMDadoda

1/8/2019 12:00:59 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.577 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. 0.00 min

Lab File: VL033061.D

Acq: 4 Jan 2019 9:14

Tgt Ion: 105 Resp: 5296756

Ion Ratio Lower Upper

105 100

120 28.8 23.0 34.6

91 13.1 10.3 15.5

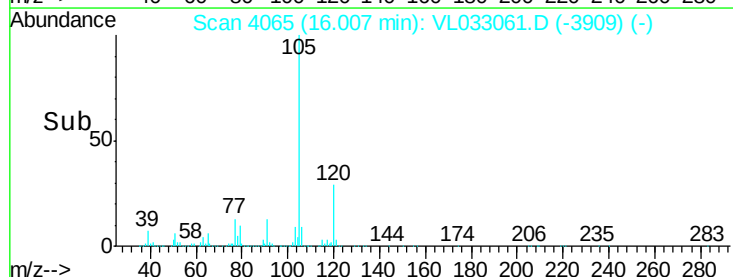
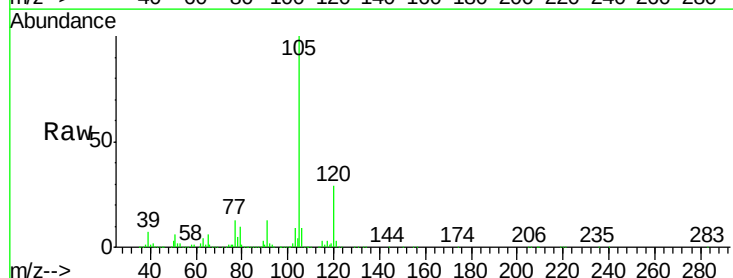
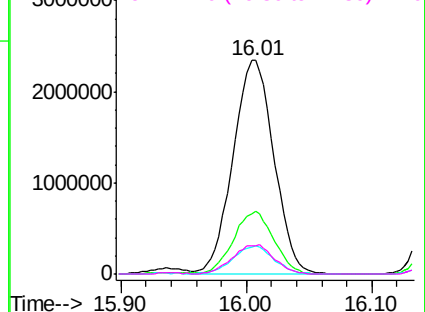
77 13.7 11.1 16.7

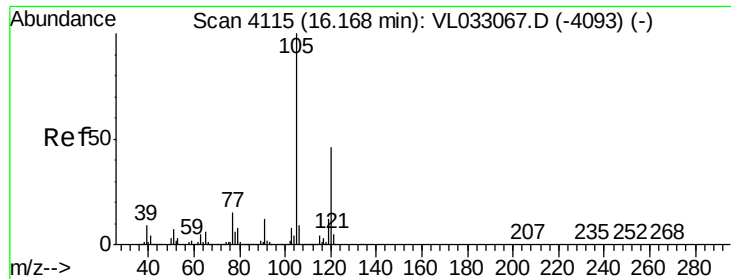
Abundance Ion 105.10 (104.80 to 105.80): V

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





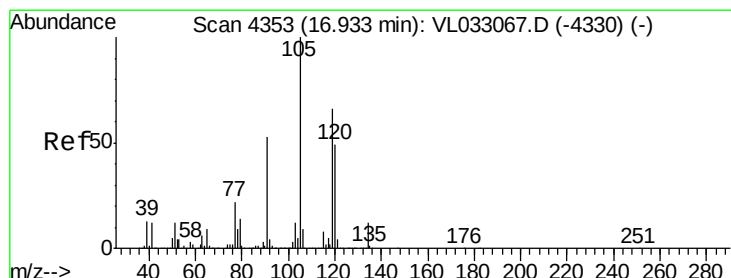
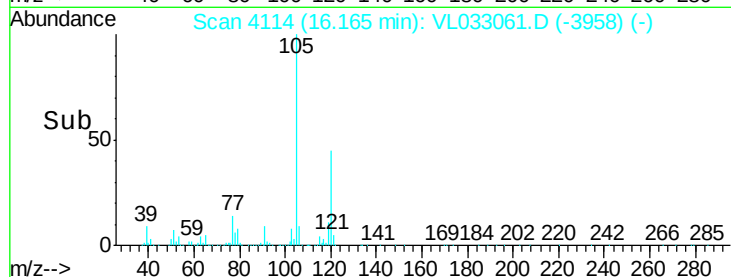
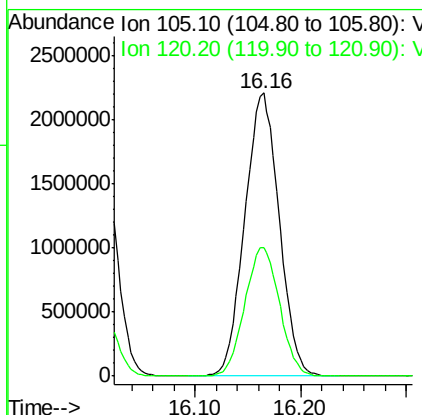
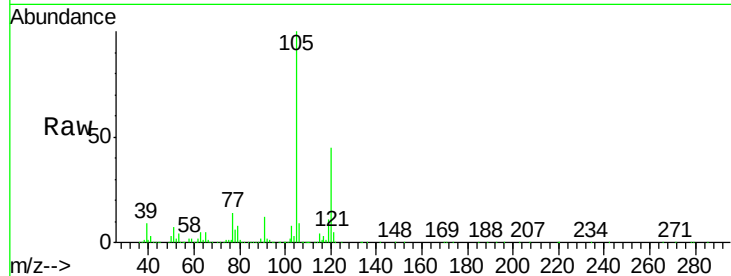
#73
 1,3,5-Trimethylbenzene
 Concen: 9.282 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:105 Resp: 5010980
 Ion Ratio Lower Upper
 105 100
 120 45.3 36.1 54.1

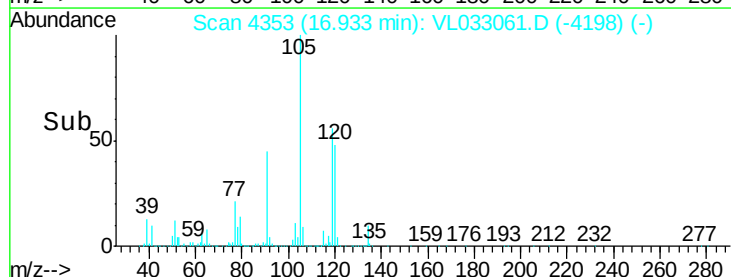
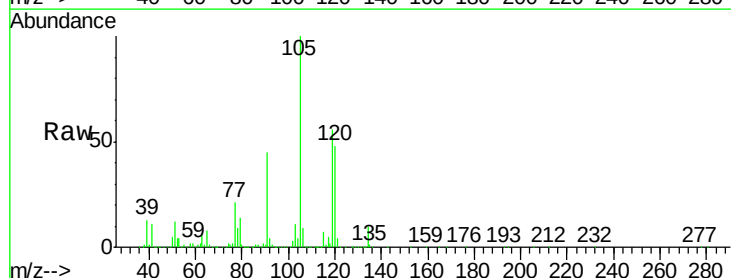
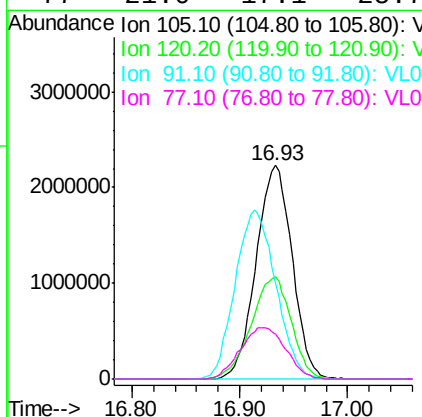
Manual Integrations
 APPROVED

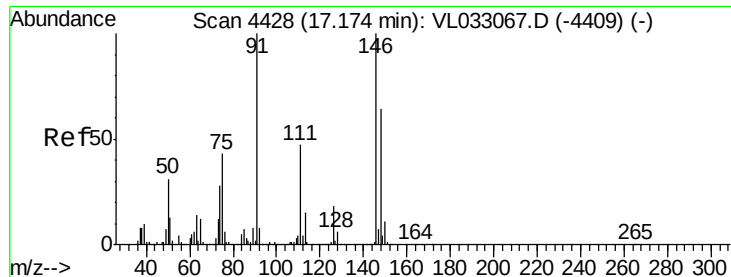
MMDadoda
 1/8/2019 12:00:59 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.717 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion:105 Resp: 5169124
 Ion Ratio Lower Upper
 105 100
 120 48.0 37.0 55.4
 91 45.1 35.4 53.0
 77 21.0 17.1 25.7





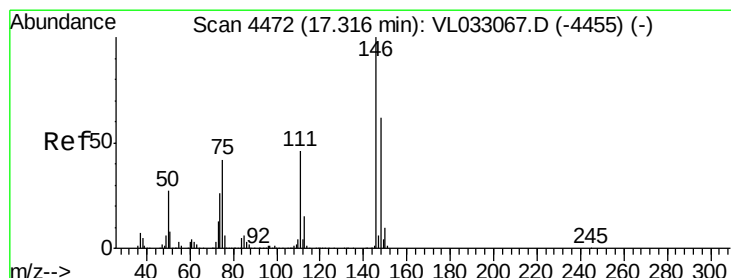
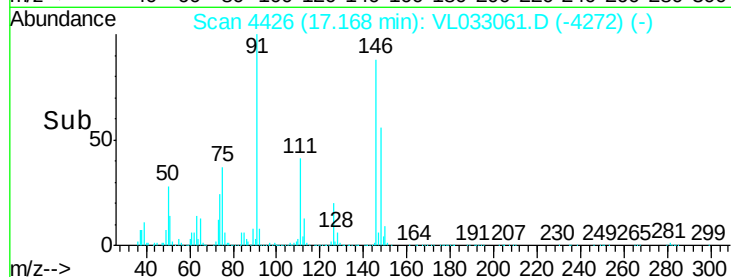
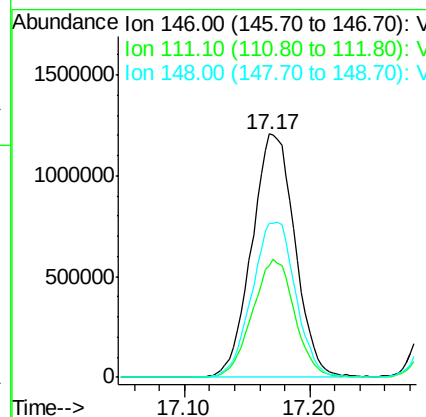
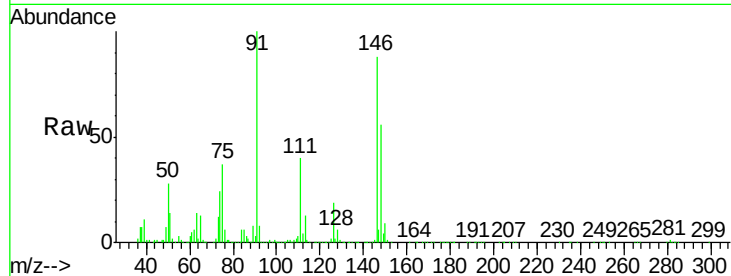
#75
 1,3-Dichlorobenzene
 Concen: 8.318 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.01 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 2888339
 Ion Ratio Lower Upper
 146 100
 111 47.5 23.4 70.2
 148 64.5 32.1 96.3

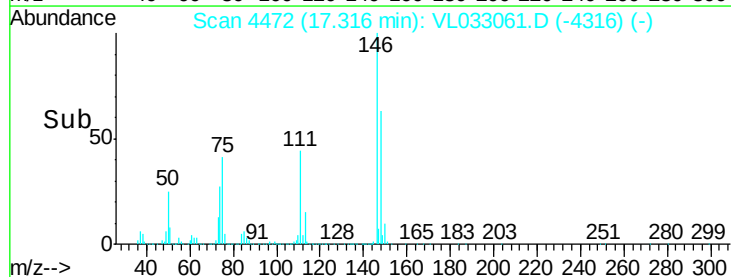
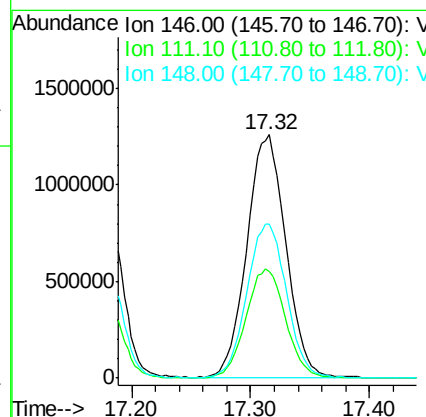
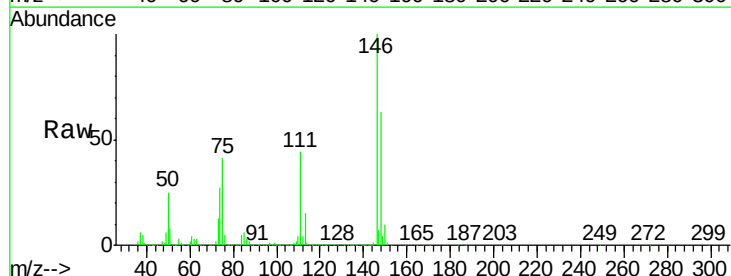
Manual Integrations
 APPROVED

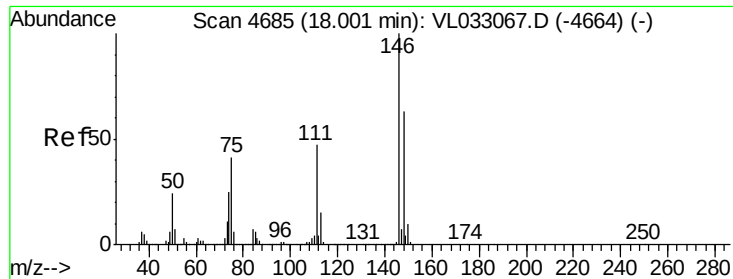
MMDadoda
 1/8/2019 12:00:59 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.022 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion:146 Resp: 2850115
 Ion Ratio Lower Upper
 146 100
 111 45.7 22.7 68.1
 148 64.8 32.4 97.2





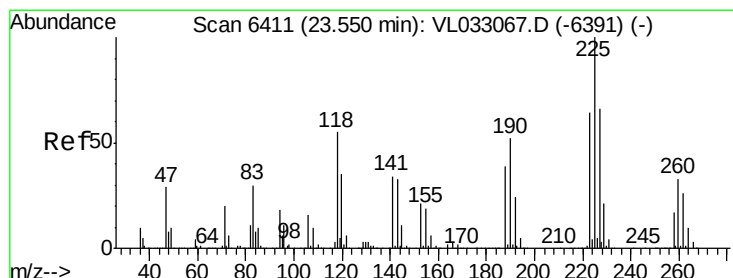
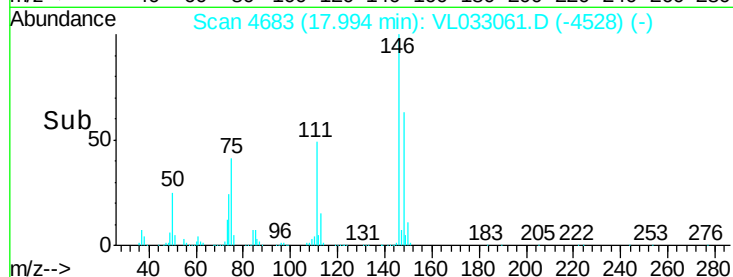
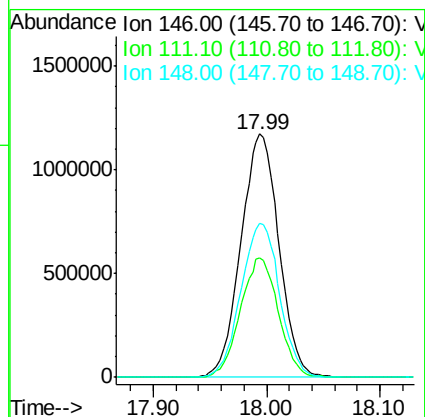
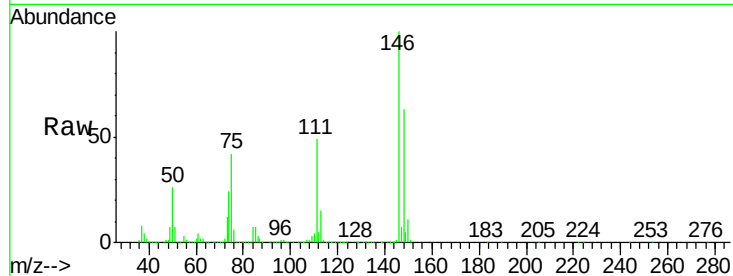
#77
 1,2-Dichlorobenzene
 Concen: 8.605 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. -0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 2735059
 Ion Ratio Lower Upper
 146 100
 111 49.1 24.4 73.2
 148 64.7 32.3 96.9

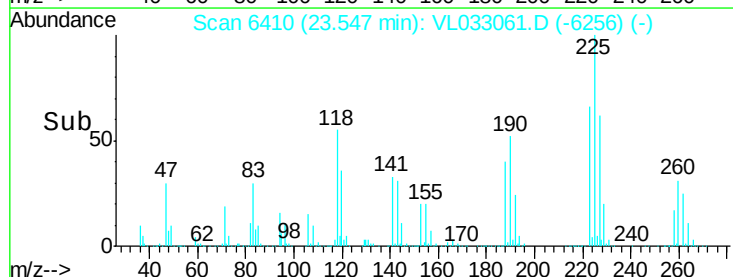
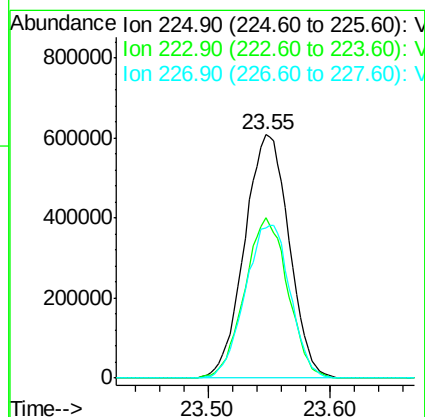
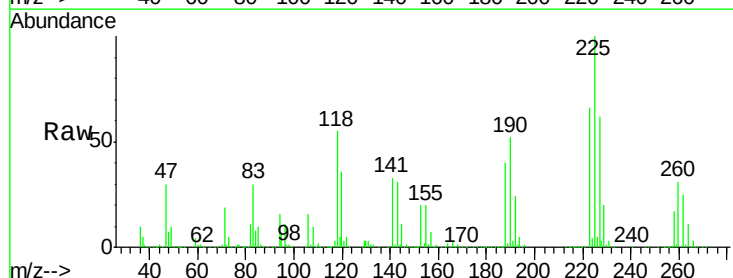
Manual Integrations
 APPROVED

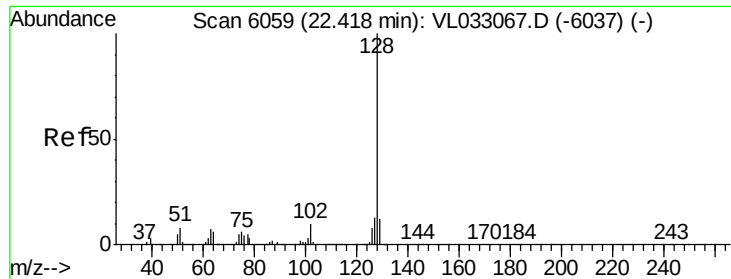
MMDadoda
 1/8/2019 12:00:59 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.872 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Tgt Ion:225 Resp: 1535165
 Ion Ratio Lower Upper
 225 100
 223 64.0 51.0 76.6
 227 63.7 51.0 76.4





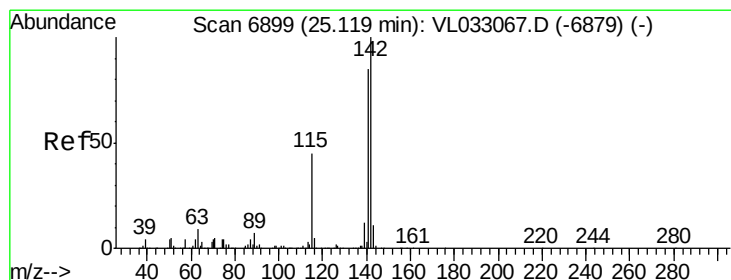
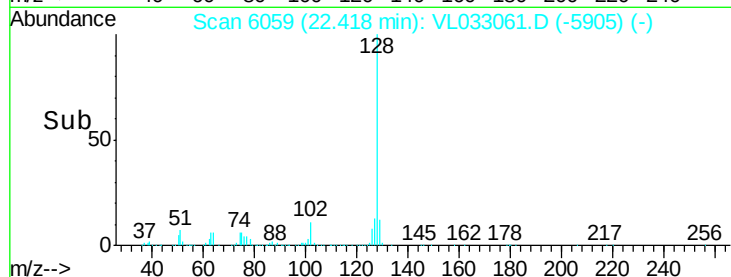
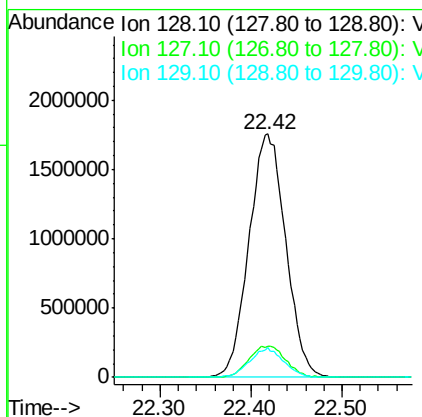
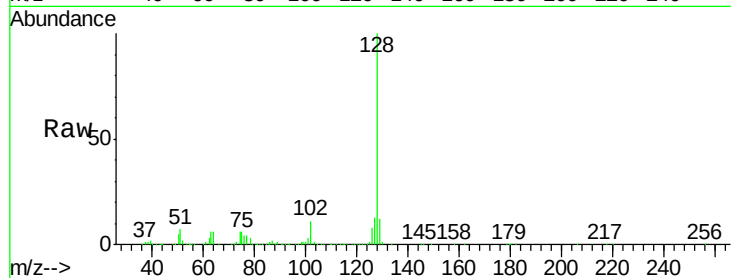
#79
Naphthalene
Concen: 9.127 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. -0.01 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:128 Resp: 4917133
Ion Ratio Lower Upper
128 100
127 12.8 11.0 16.6
129 12.0 9.4 14.0

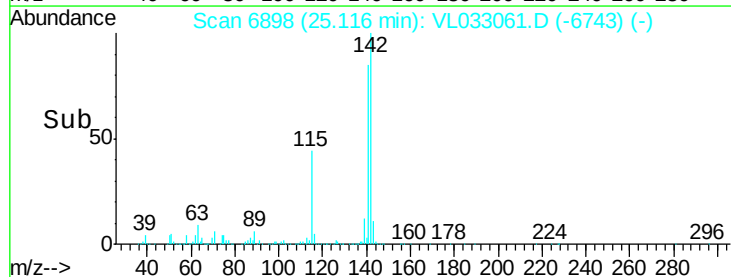
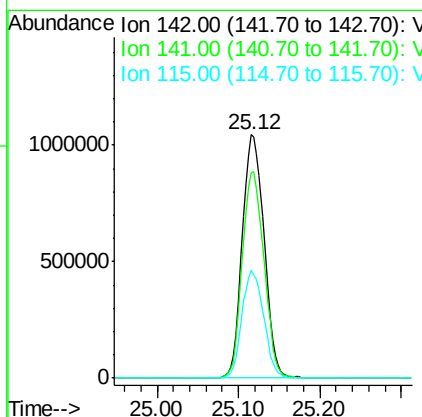
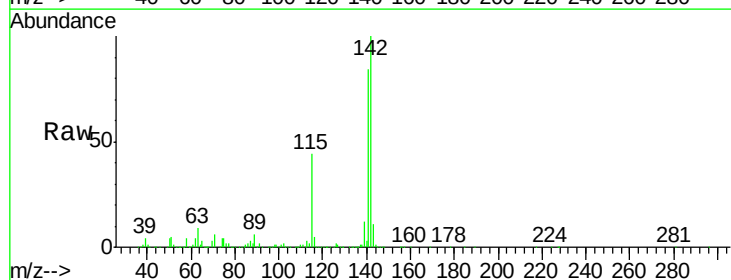
Manual Integrations
APPROVED

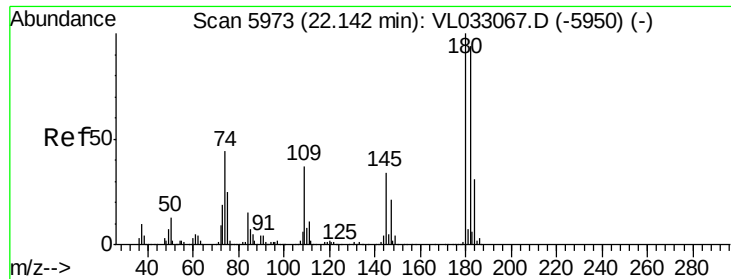
MMDadoda
1/8/2019 12:00:59 AM



#80
Naphthalene, 2-methyl-
Concen: 12.863 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033061.D
Acq: 4 Jan 2019 9:14

Tgt Ion:142 Resp: 1921659
Ion Ratio Lower Upper
142 100
141 84.7 68.6 103.0
115 44.4 35.6 53.4





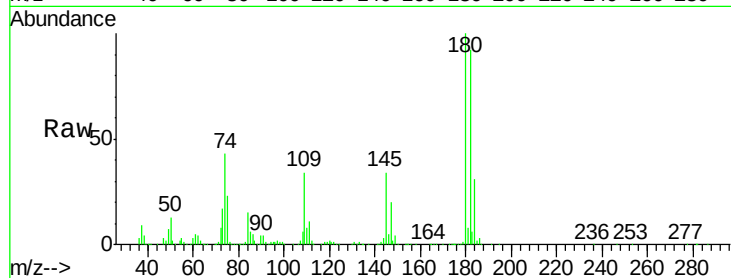
#81
 1,2,4-Trichlorobenzene
 Concen: 9.249 ppbv m
 RT: 22.15 min Scan# 5975
 Delta R.T. 0.00 min
 Lab File: VL033061.D
 Acq: 4 Jan 2019 9:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:00:59 AM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

