

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032174.D
 Acq On : 30 Jun 2018 17:08
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:25:59 PM

Quant Time: Jul 02 04:30:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1356789	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.39	114	3175176	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.35	117	3277952m	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	2334884	9.32	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.14	85	1286468	7.20	ppbv	97
3) Chlorodifluoromethane	3.07	51	1554659	9.38	ppbv	96
4) Chloromethane	3.23	50	816632	9.23	ppbv	97
5) Vinyl Chloride	3.35	62	819090	9.16	ppbv	99
6) Bromomethane	3.58	94	478842	9.40	ppbv	99
7) Chloroethane	3.67	64	324650	10.27	ppbv	99
8) Dichlorotetrafluoroethane	3.28	85	1763832	8.85	ppbv	92
9) Propene	3.09	41	673752	8.72	ppbv	98
10) Heptane	8.34	43	2081446	9.24	ppbv	97
11) Trichlorofluoromethane	4.07	101	1817104	9.40	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1167145	9.07	ppbv	92
13) Ethanol	3.72	45	148773	6.35	ppbv	98
14) Bromoethene	3.86	108	560011	9.14	ppbv	99
15) Acetone	3.97	43	1407085	8.87	ppbv	100
16) 1,3-Butadiene	3.42	39	736709	9.73	ppbv	92
17) tert-Butyl alcohol	4.43	59	790399	7.82	ppbv	100
18) 1,1-Dichloroethene	4.43	96	550613	8.94	ppbv	90
19) Isopropyl Alcohol	4.10	45	1037703	7.87	ppbv #	41
20) Methylene Chloride	4.49	84	497256	8.58	ppbv	97
21) Allyl Chloride	4.55	41	966295	8.92	ppbv	97
22) trans-1,2-Dichloroethene	5.04	96	630436	9.79	ppbv	97
23) Vinyl Acetate	5.23	43	2590676	9.00	ppbv	98
24) 1,1-Dichloroethane	5.17	63	1725699	9.36	ppbv	99
25) Ethyl Acetate	5.86	43	3137220	9.56	ppbv	100
26) Hexane	5.87	57	1438936	9.52	ppbv	96
27) Carbon Disulfide	4.70	76	1387556	9.23	ppbv	98
28) Methyl tert-Butyl Ether	5.19	73	2356002	8.82	ppbv	99
29) Chloroform	5.94	83	2200999	10.00	ppbv	99
30) Cyclohexane	7.34	84	1294761	9.09	ppbv	98
31) cis-1,2-Dichloroethene	5.73	61	1501754	9.94	ppbv	94
32) 1,1,1-Trichloroethane	6.71	97	2081832	9.03	ppbv	98
34) 2-Butanone	5.41	43	2033356	10.09	ppbv	99
35) Carbon Tetrachloride	7.23	117	2110718	9.71	ppbv	99
36) Benzene	7.10	78	3096313	10.08	ppbv	98
37) 1,2-Dichloroethane	6.50	62	1718244	11.22	ppbv	97
38) Trichloroethene	8.06	130	1042056	8.68	ppbv	93
39) 1,2-Dichloropropane	7.84	63	1209211	9.98	ppbv	95
40) 1,4-Dioxane	8.05	88	402490	8.47	ppbv #	1
41) Tetrahydrofuran	6.24	42	1254821	10.39	ppbv	97
42) Bromodichloromethane	8.02	83	2410675	10.05	ppbv	96
43) Methyl Methacrylate	8.23	69	1331500	10.45	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032174.D
 Acq On : 30 Jun 2018 17:08
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

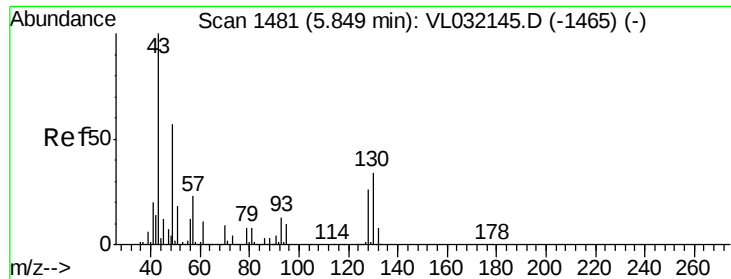
Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:25:59 PM

Quant Time: Jul 02 04:30:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	5129419	9.54	ppbv	99
45) t-1,3-Dichloropropene	9.52	75	1609519	10.20	ppbv	97
46) cis-1,3-Dichloropropene	8.94	75	1889180	10.02	ppbv	97
47) 1,1,2-Trichloroethane	9.72	97	1234286	9.80	ppbv	99
48) Dibromochloromethane	10.56	129	1868153	9.58	ppbv	99
49) Bromoform	13.31	173	1532772	9.39	ppbv	100
50) 4-Methyl-2-Pentanone	8.97	43	3204337	9.71	ppbv	100
51) 2-Hexanone	10.38	43	2721963	9.95	ppbv #	100
52) Tetrachloroethene	11.48	164	927721	8.30	ppbv	95
53) Toluene	10.05	91	3555079	9.57	ppbv	100
54) 1,2-Dibromoethane	10.87	107	1826329	9.64	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.39	131	1323903	9.05	ppbv #	55
57) Chlorobenzene	12.41	112	2586011	9.11	ppbv	98
58) Ethyl Benzene	12.97	91	4914223	9.30	ppbv	96
59) m/p-Xylene	13.26	91	7807507m	18.44	ppbv	
60) o-Xylene	13.96	91	3749615	8.88	ppbv	96
61) Styrene	13.79	104	3114273	9.00	ppbv	95
62) Isopropylbenzene	14.93	105	5379495	8.28	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	2657789	8.13	ppbv	100
64) n-propylbenzene	15.83	120	1405246	8.36	ppbv	85
65) tert-Butylbenzene	17.01	119	4433432	7.77	ppbv	93
66) Benzyl Chloride	17.26	91	2592630	7.36	ppbv	94
67) sec-Butylbenzene	17.57	105	6692950	8.01	ppbv	98
69) p-Isopropyltoluene	17.92	119	5396929	8.05	ppbv	97
70) n-Butylbenzene	18.82	91	5945784	8.50	ppbv	98
71) 2-Chlorotoluene	15.73	91	4310836	8.62	ppbv	94
72) 4-Ethyltoluene	16.11	105	4643118	8.51	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	4367233	8.50	ppbv	92
74) 1,2,4-Trimethylbenzene	17.03	105	4265842	8.23	ppbv	93
75) 1,3-Dichlorobenzene	17.28	146	2342511	7.94	ppbv	98
76) 1,4-Dichlorobenzene	17.41	146	2411593	8.06	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2361952	8.01	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	1453572	14.16	ppbv	99
79) Naphthalene	22.53	128	4410643	9.36	ppbv	100
80) Naphthalene, 2-methyl-	25.19	142	2119704	12.46	ppbv	97
81) 1,2,4-Trichlorobenzene	22.26	180	1947916	9.15	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1356789

Ion Ratio Lower Upper

49 100

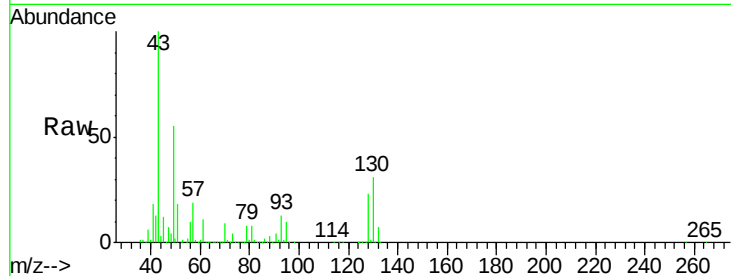
128 43.9 23.4 70.0

130 56.2 30.3 90.9

Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:25:59 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.85

800000

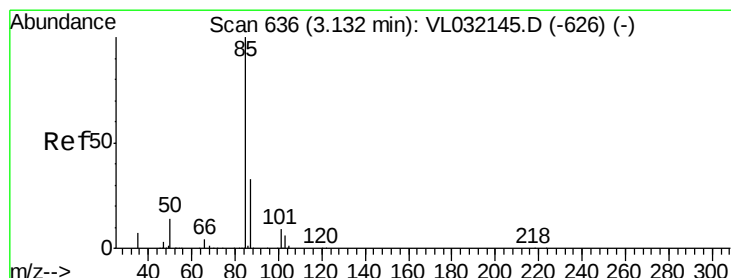
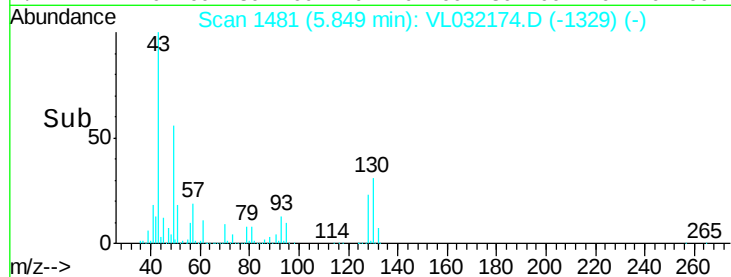
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 7.20 ppbv

RT: 3.14 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032174.D

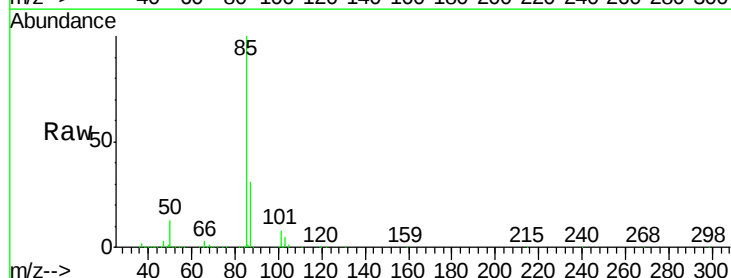
Acq: 30 Jun 2018 17:08

Tgt Ion: 85 Resp: 1286468

Ion Ratio Lower Upper

85 100

87 31.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.14

1000000

800000

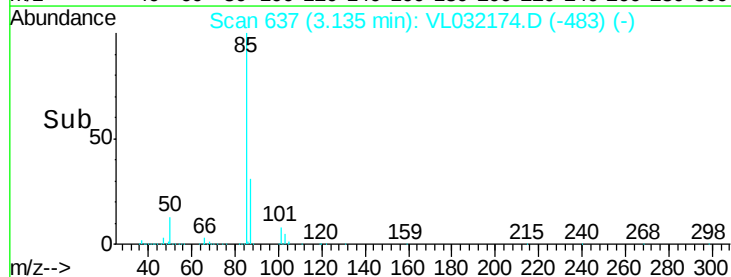
600000

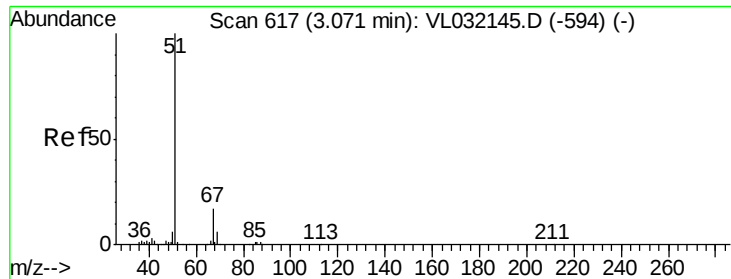
400000

200000

0

Time-->





#3

Chlorodifluoromethane

Concen: 9.38 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1554659

Ion Ratio Lower Upper

51 100

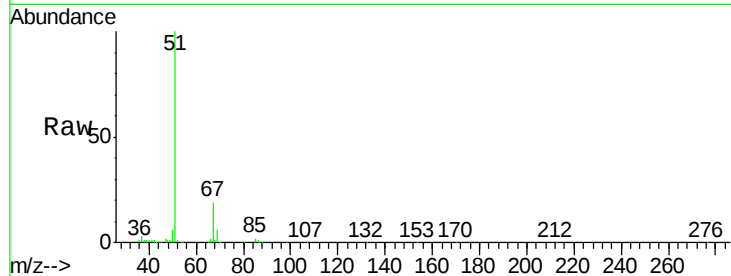
67 18.3 13.2 19.8

Manual Integrations

APPROVED

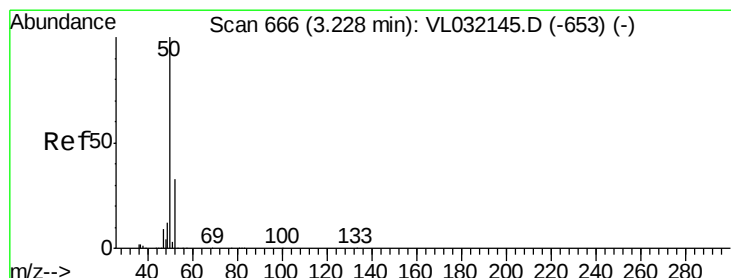
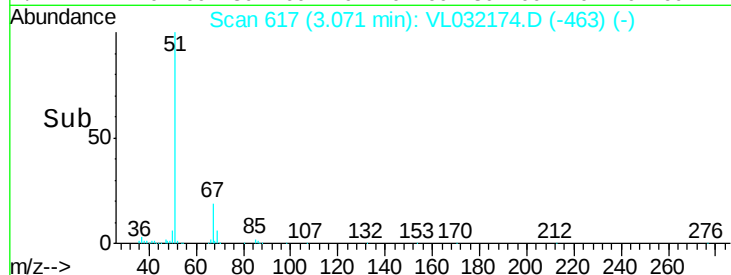
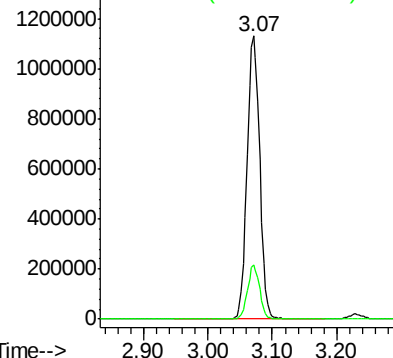
MMDadoda

7/2/2018 4:25:59 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.23 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032174.D

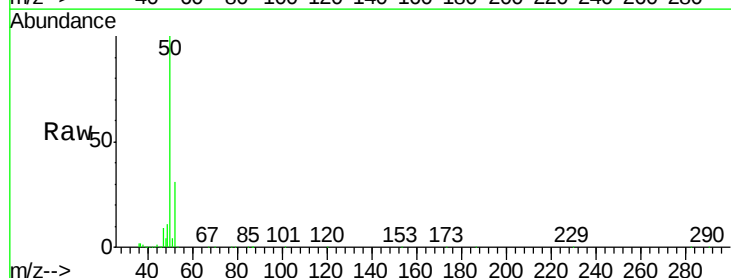
Acq: 30 Jun 2018 17:08

Tgt Ion: 50 Resp: 816632

Ion Ratio Lower Upper

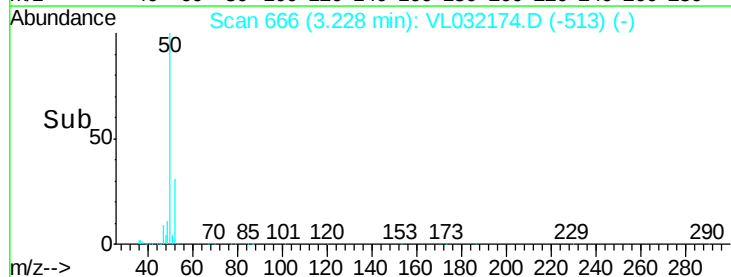
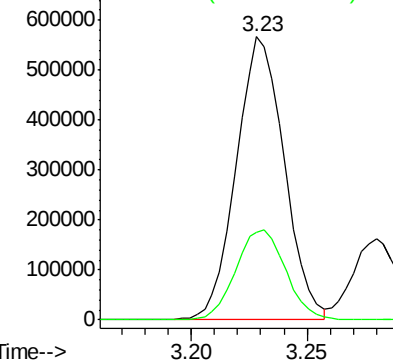
50 100

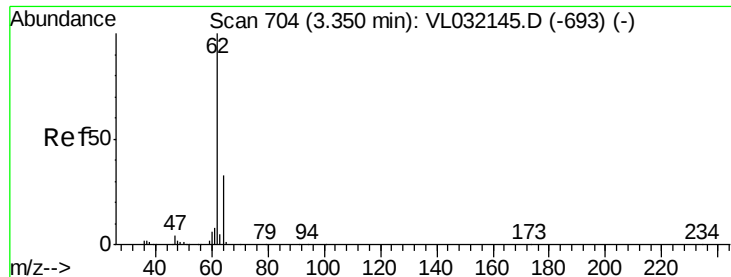
52 31.0 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.16 ppbv

RT: 3.35 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 819090

Ion Ratio Lower Upper

62 100

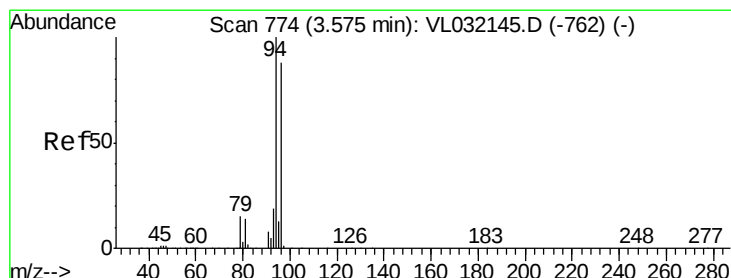
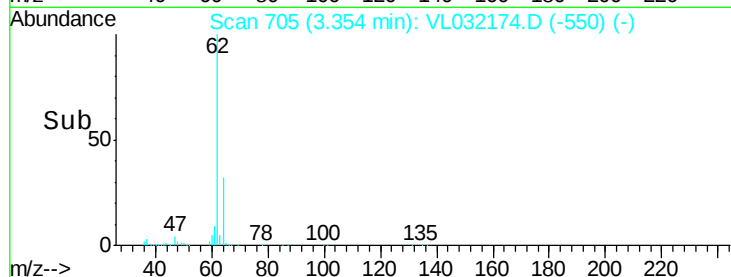
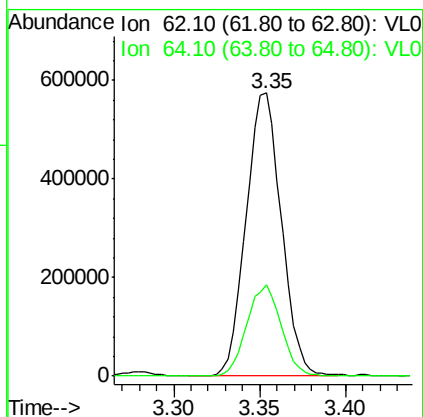
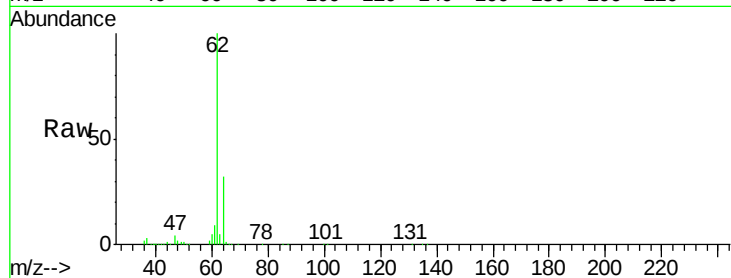
64 32.3 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

7/2/2018 4:25:59 PM



#6

Bromomethane

Concen: 9.40 ppbv

RT: 3.58 min Scan# 775

Delta R.T. -0.01 min

Lab File: VL032174.D

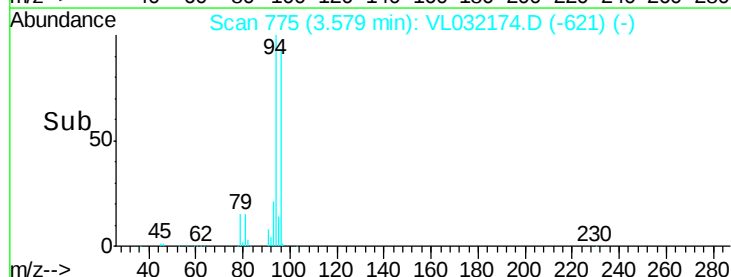
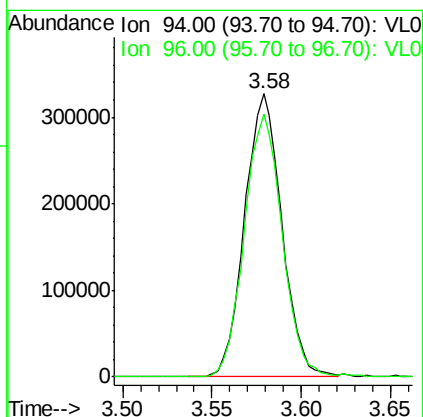
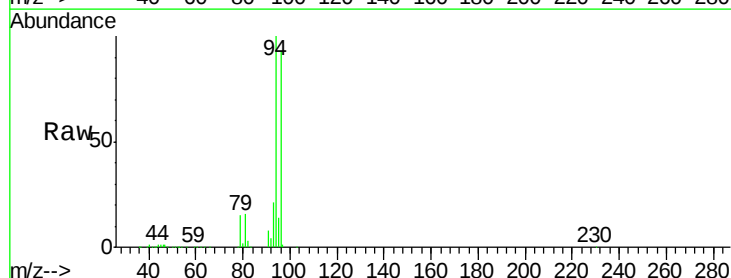
Acq: 30 Jun 2018 17:08

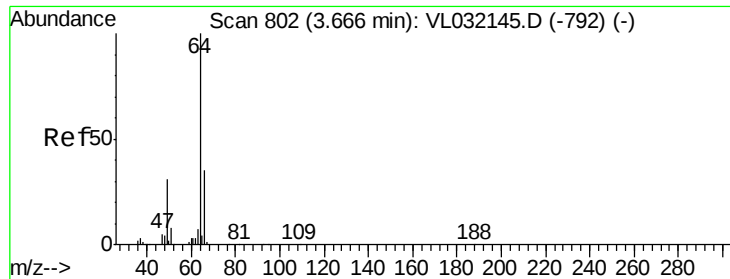
Tgt Ion: 94 Resp: 478842

Ion Ratio Lower Upper

94 100

96 92.7 74.7 112.1





#7

Chloroethane

Concen: 10.27 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 324650

Ion Ratio Lower Upper

64 100

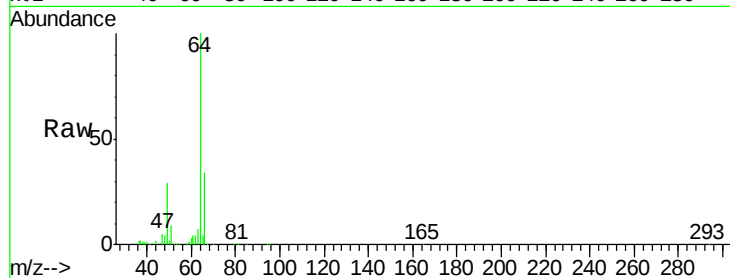
66 34.4 26.9 40.3

Manual Integrations

APPROVED

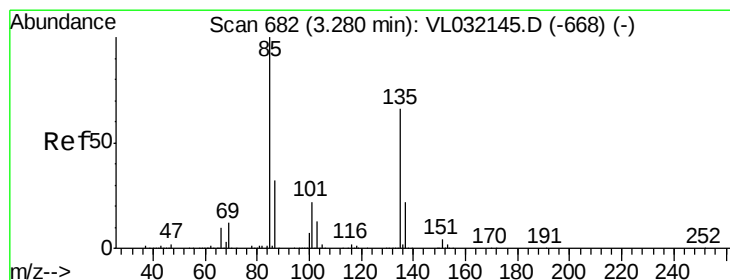
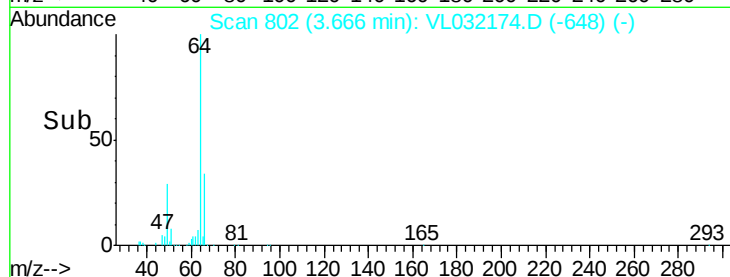
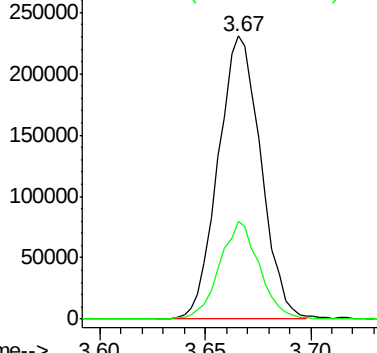
MMDadoda

7/2/2018 4:25:59 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.85 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032174.D

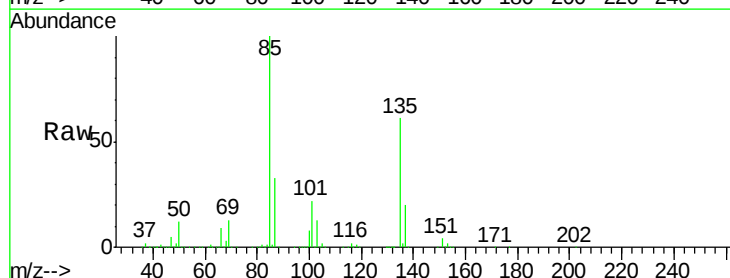
Acq: 30 Jun 2018 17:08

Tgt Ion: 85 Resp: 1763832

Ion Ratio Lower Upper

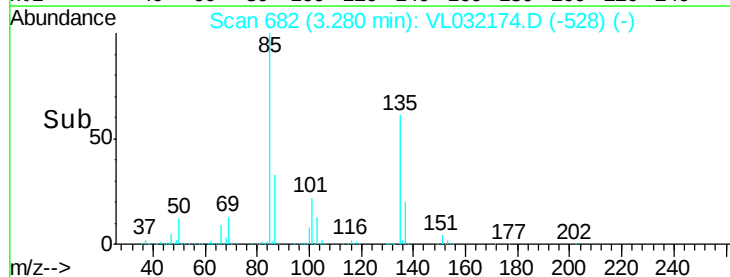
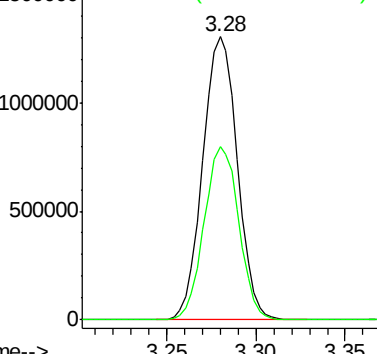
85 100

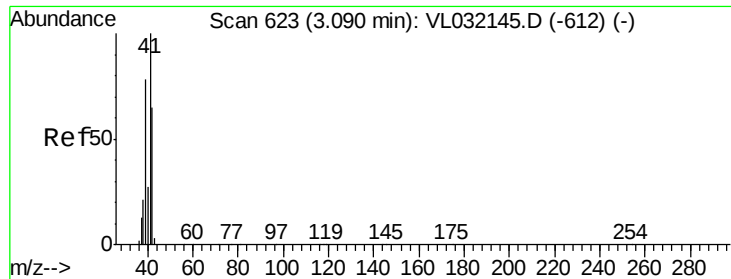
135 61.6 54.6 82.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.72 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 673752

Ion Ratio Lower Upper

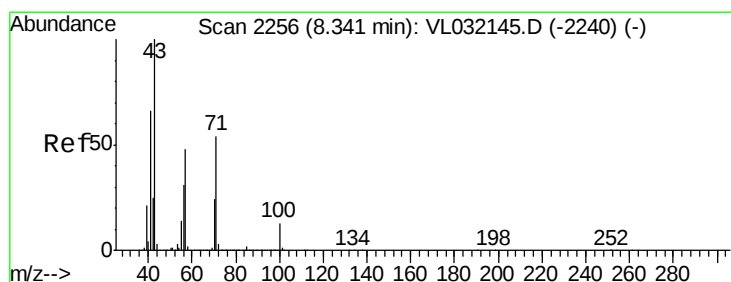
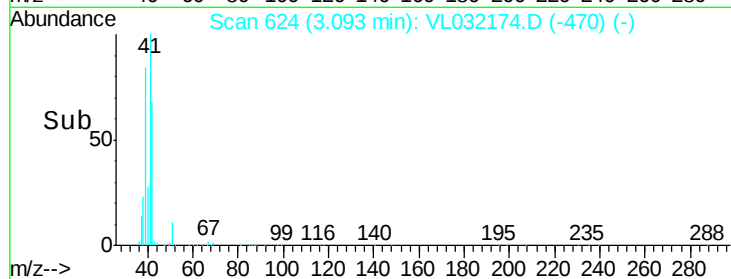
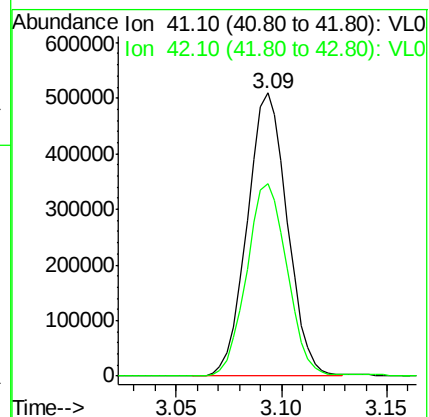
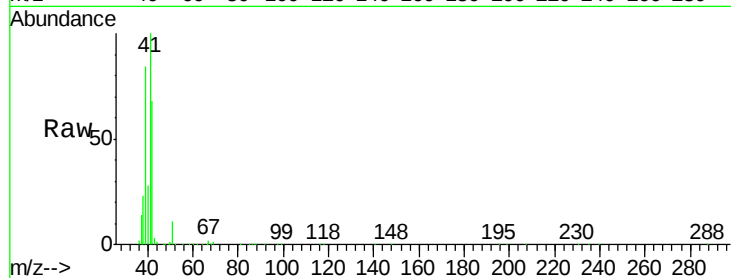
41 100

42 69.0 56.2 84.4

Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:25:59 PM



#10

Heptane

Concen: 9.24 ppbv

RT: 8.34 min Scan# 2257

Delta R.T. -0.01 min

Lab File: VL032174.D

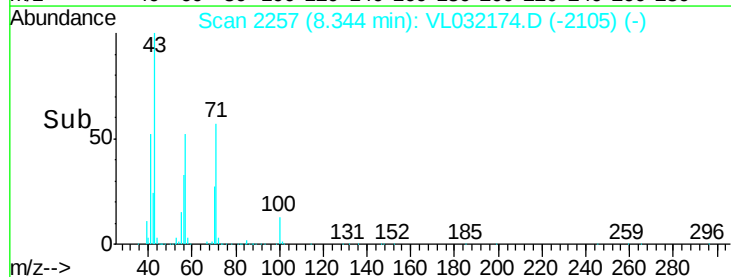
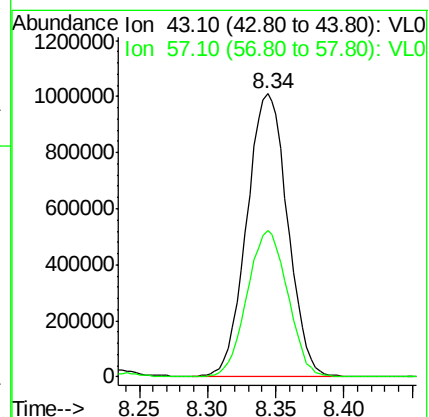
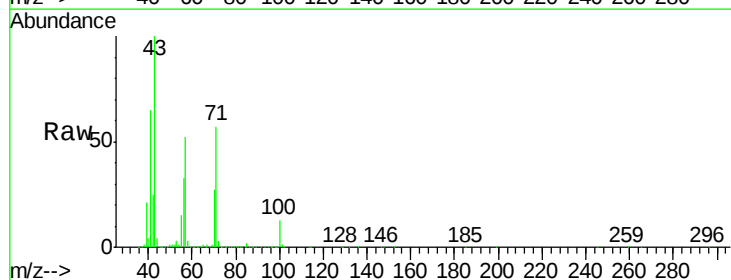
Acq: 30 Jun 2018 17:08

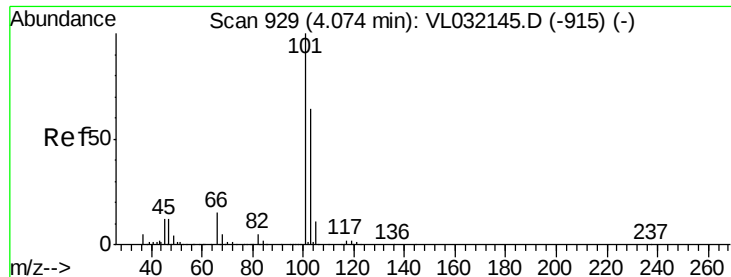
Tgt Ion: 43 Resp: 2081446

Ion Ratio Lower Upper

43 100

57 51.8 39.8 59.8





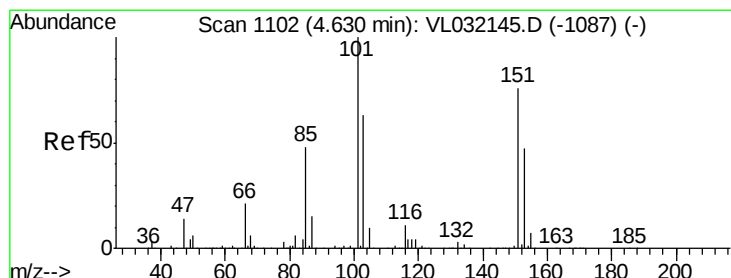
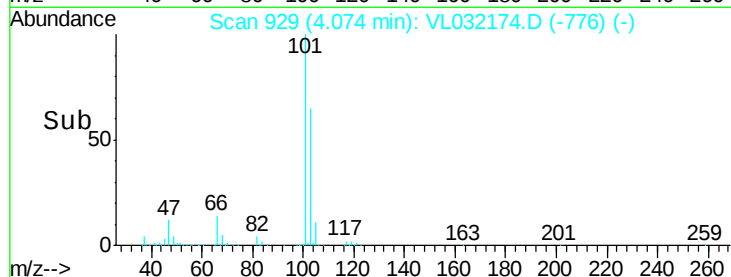
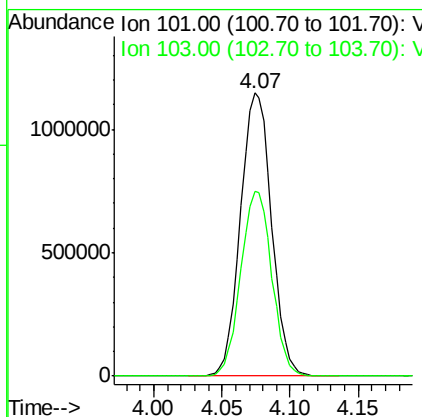
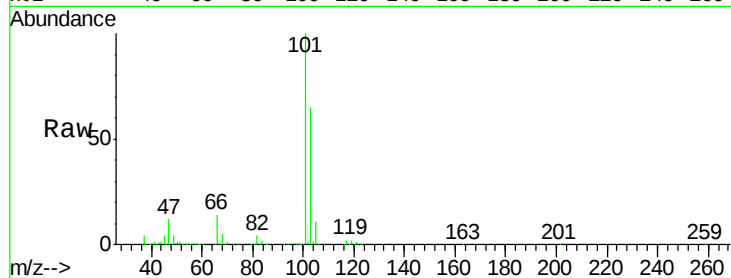
#11
 Trichlorofluoromethane
 Concen: 9.40 ppbv
 RT: 4.07 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1817104
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.4 77.0

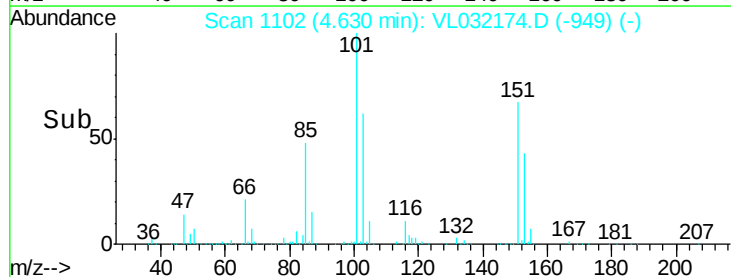
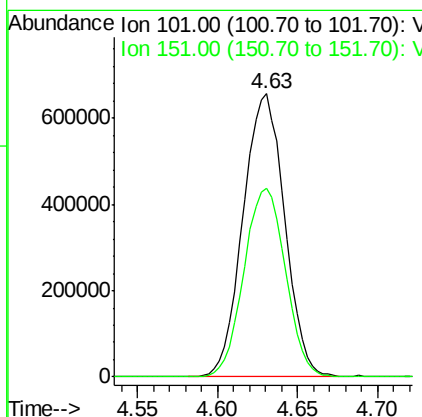
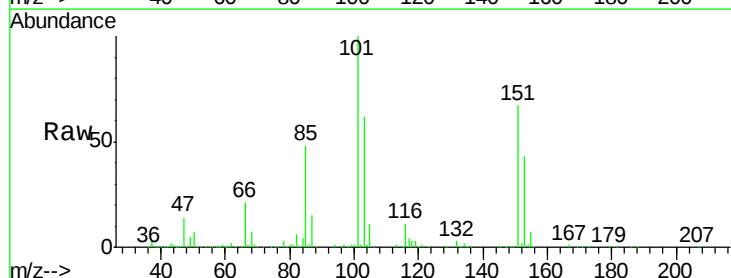
Manual Integrations
 APPROVED

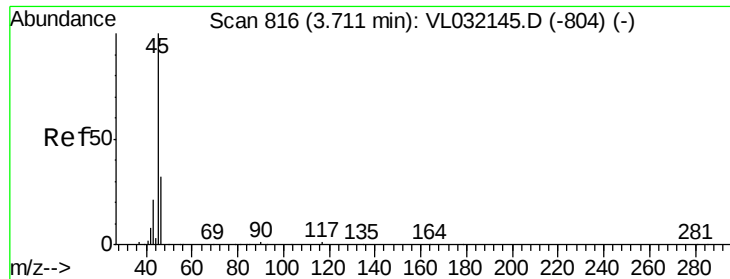
MMDadoda
 7/2/2018 4:25:59 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.07 ppbv
 RT: 4.63 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion:101 Resp: 1167145
 Ion Ratio Lower Upper
 101 100
 151 66.7 58.8 88.2





#13

Ethanol

Concen: 6.35 ppbv

RT: 3.72 min Scan# 819

Delta R.T. -0.00 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 148773

Ion Ratio Lower Upper

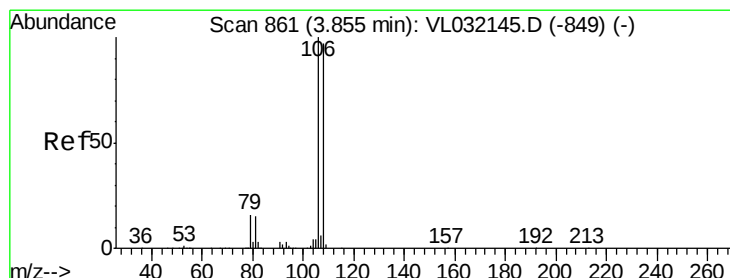
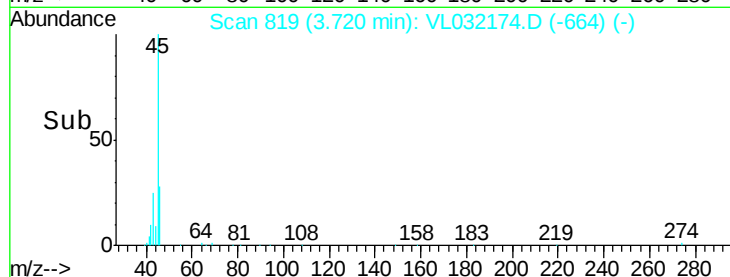
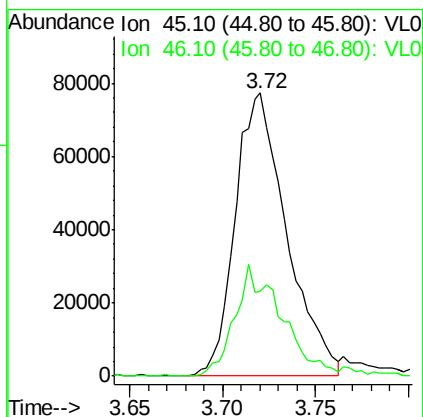
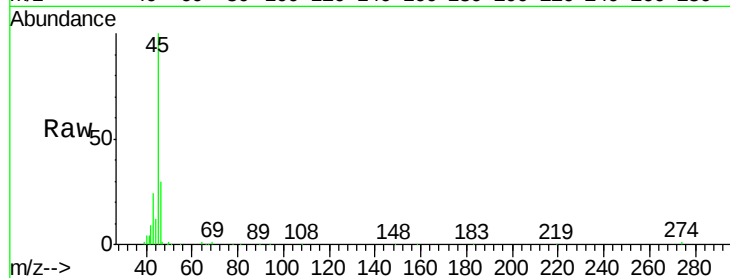
45 100

46 37.7 14.6 58.4

Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:25:59 PM



#14

Bromoethene

Concen: 9.14 ppbv

RT: 3.86 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

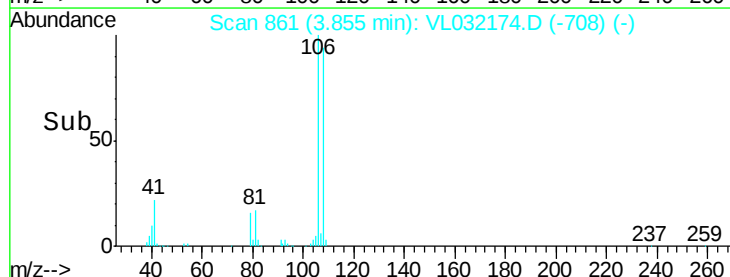
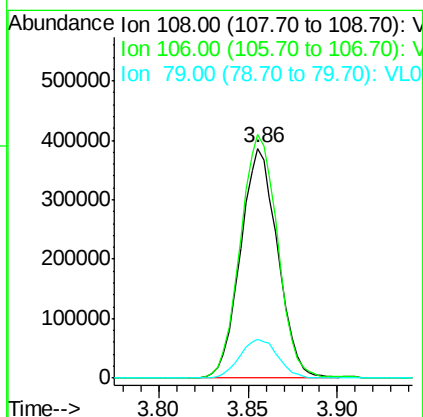
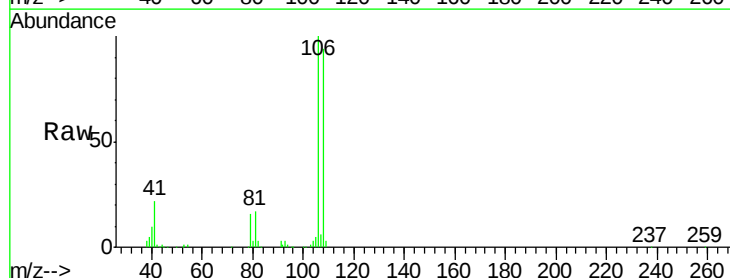
Tgt Ion: 108 Resp: 560011

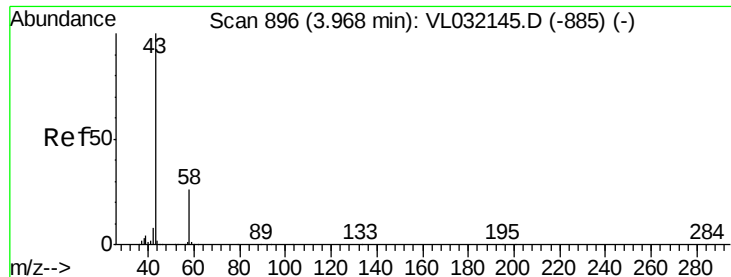
Ion Ratio Lower Upper

108 100

106 107.3 86.3 129.5

79 17.6 12.7 19.1





#15

Acetone

Concen: 8.87 ppbv

RT: 3.97 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Tot Ion: 43 Resp: 1407085

Ion Ratio Lower Upper

43 100

58 26.6 21.4 32.0

Instrument :

MSVOA_L

ClientSampleId :

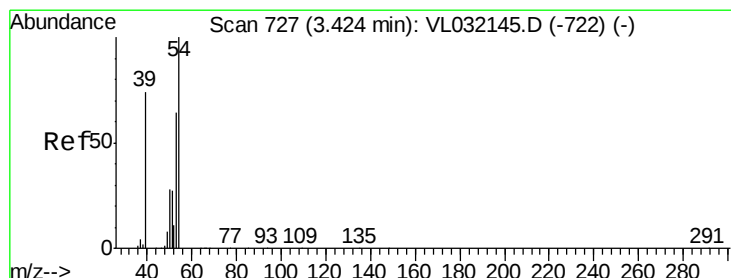
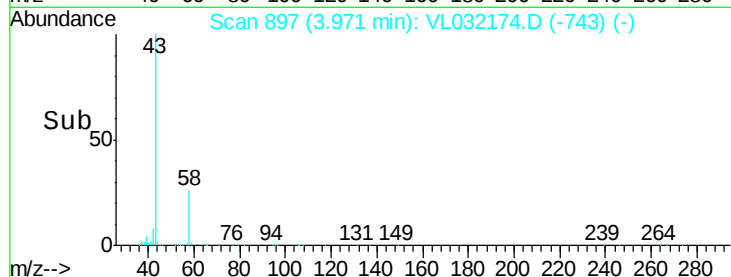
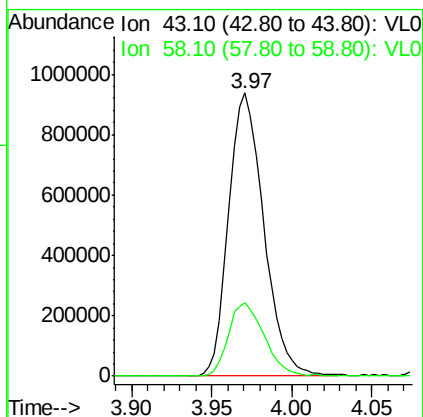
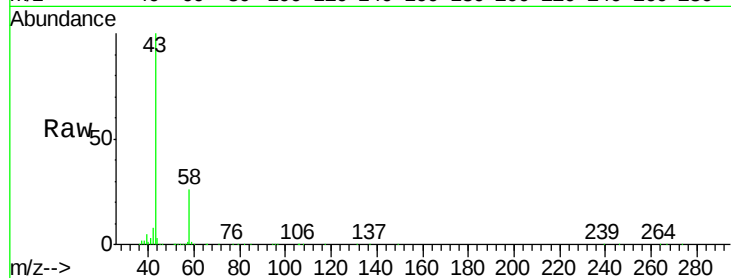
VSTDCCC010EC

Manual Integrations

APPROVED

MMDadoda

7/2/2018 4:25:59 PM



#16

1,3-Butadiene

Concen: 9.73 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032174.D

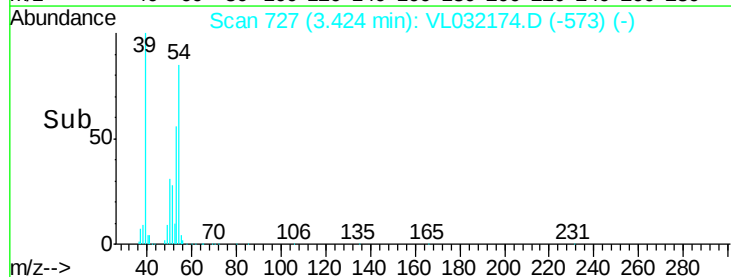
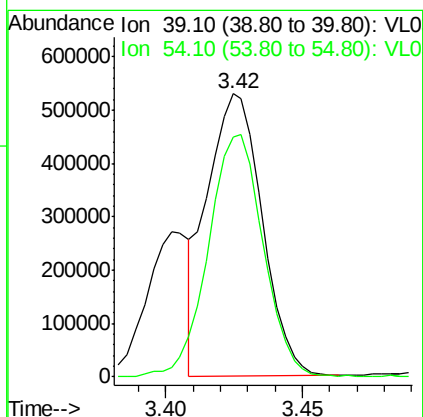
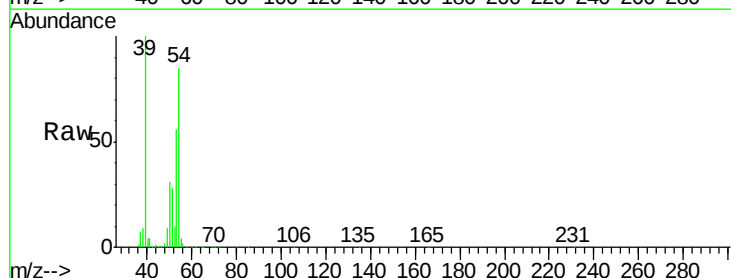
Acq: 30 Jun 2018 17:08

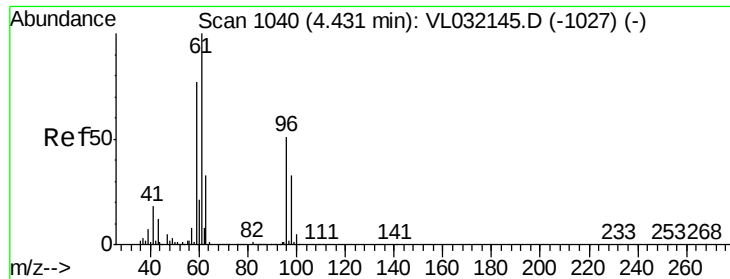
Tgt Ion: 39 Resp: 736709

Ion Ratio Lower Upper

39 100

54 87.0 75.8 113.6





#17

tert-Butyl alcohol

Concen: 7.82 ppbv

RT: 4.43 min Scan# 1040

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 59 Resp: 790399

Ion Ratio Lower Upper

59 100

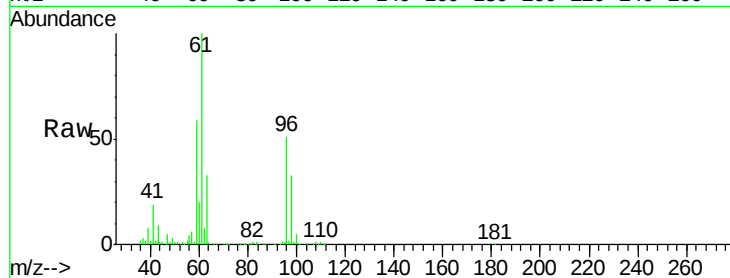
57 10.1 8.2 12.2

Manual Integrations

APPROVED

MMDadoda

7/2/2018 4:25:59 PM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.43

400000

300000

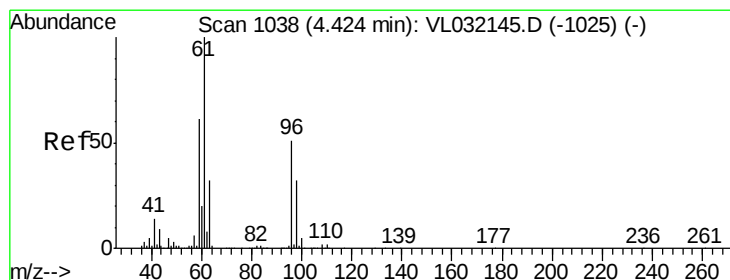
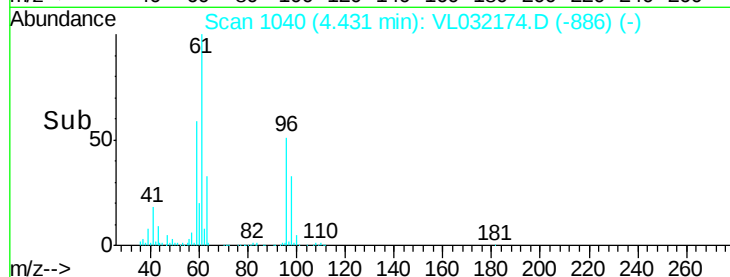
200000

100000

0

4.35 4.40 4.45 4.50 4.55

Time-->



#18

1,1-Dichloroethene

Concen: 8.94 ppbv

RT: 4.43 min Scan# 1039

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

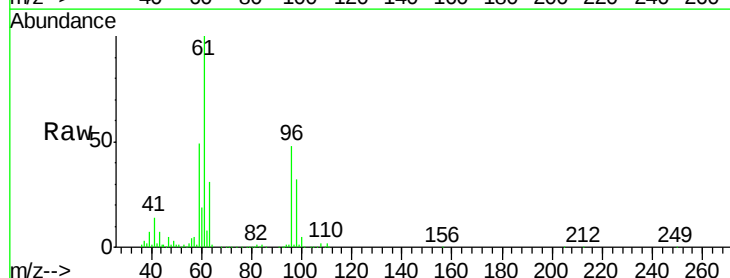
Tgt Ion: 96 Resp: 550613

Ion Ratio Lower Upper

96 100

61 210.0 154.1 231.1

98 67.2 50.3 75.5



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

1000000

800000

600000

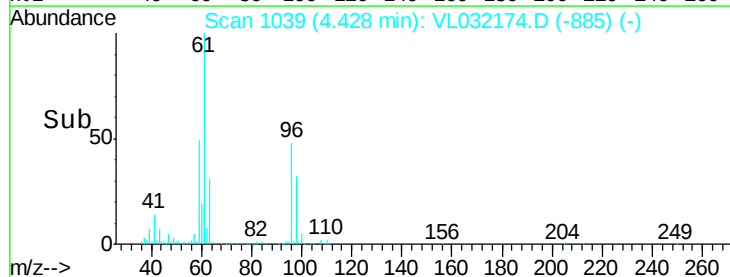
400000

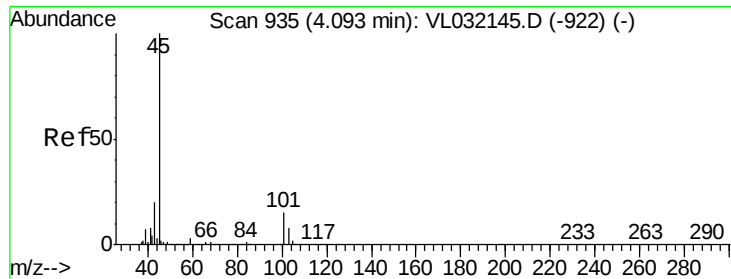
200000

0

4.35 4.40 4.45 4.50

Time-->





#19

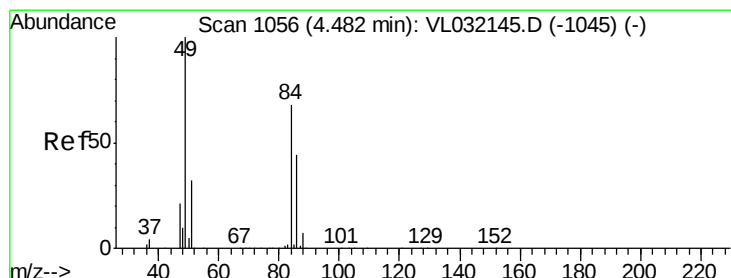
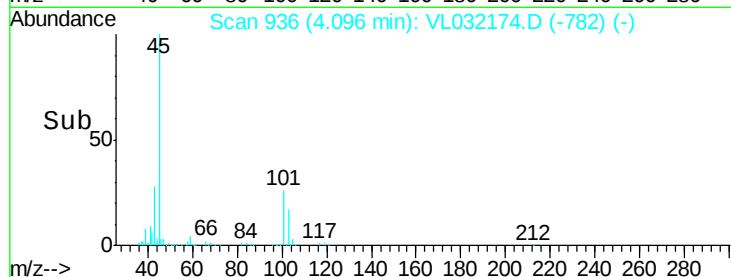
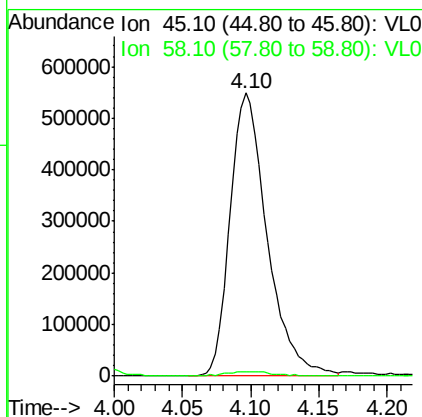
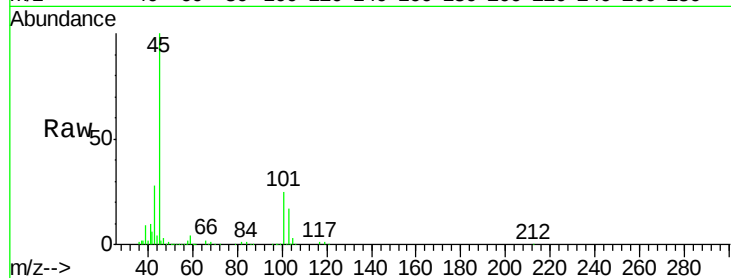
Isopropyl Alcohol
 Concen: 7.87 ppbv
 RT: 4.10 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 1037703
 Ion Ratio Lower Upper
 45 100
 58 1.9 29.4 44.0#

Manual Integrations
 APPROVED

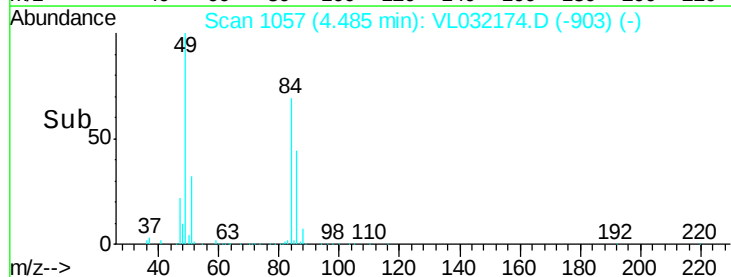
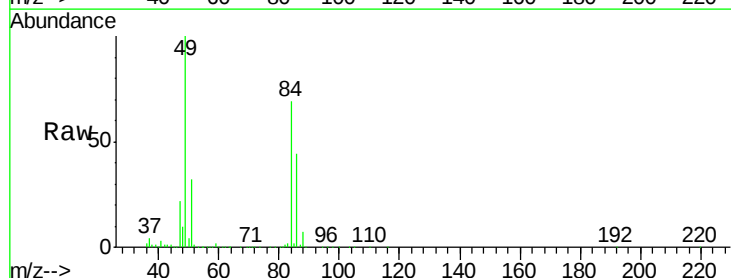
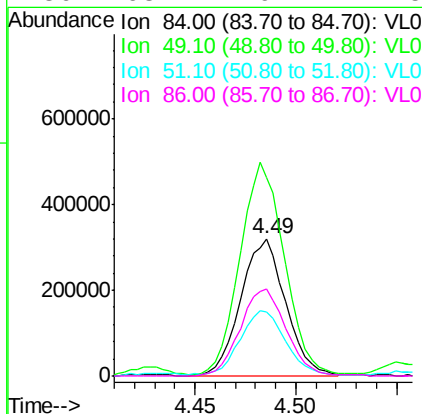
MMDadoda
 7/2/2018 4:25:59 PM

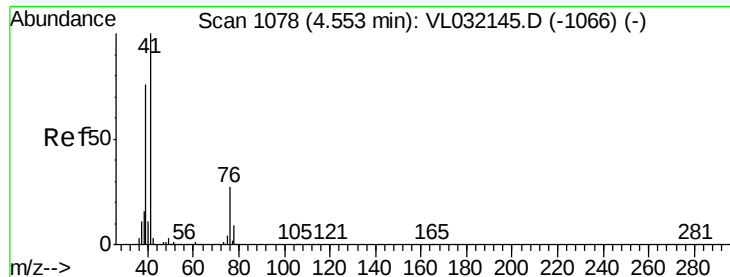


#20

Methylene Chloride
 Concen: 8.58 ppbv
 RT: 4.49 min Scan# 1057
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion: 84 Resp: 497256
 Ion Ratio Lower Upper
 84 100
 49 143.5 119.6 179.4
 51 45.8 36.3 54.5
 86 63.4 49.7 74.5





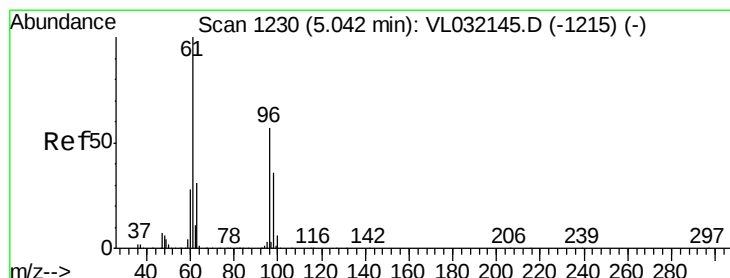
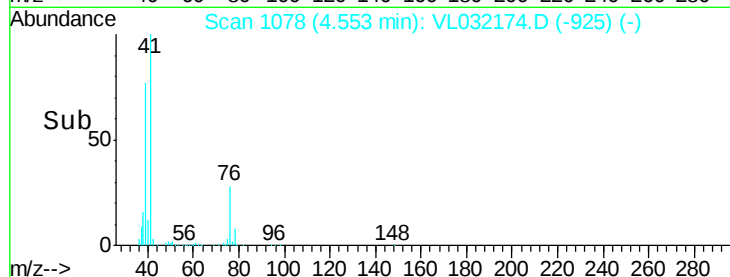
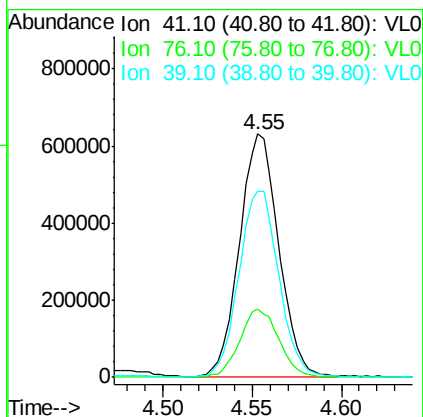
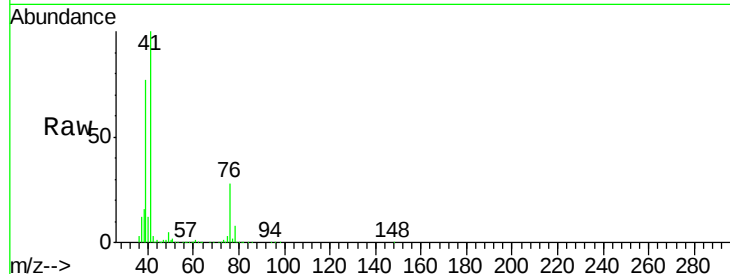
#21
Allvl Chloride
Concen: 8.92 ppbv
RT: 4.55 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
41	100	966295		
76	28.5		22.5	33.7
39	78.7		60.5	90.7

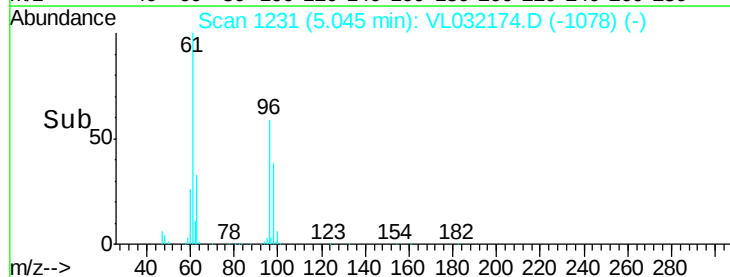
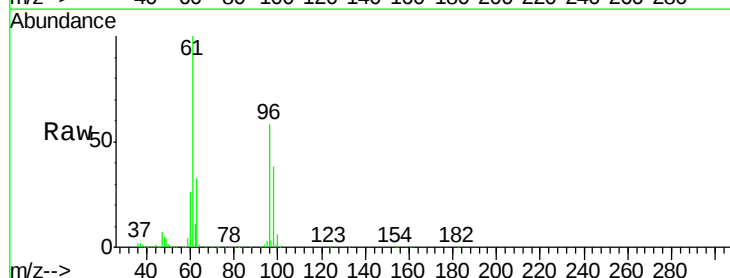
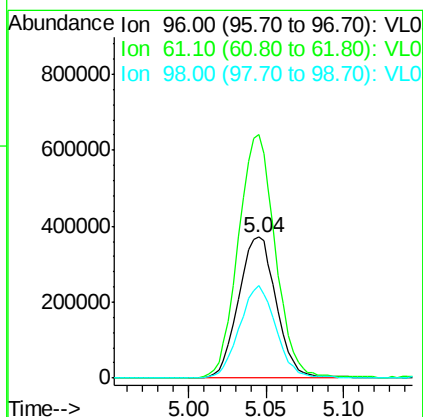
Manual Integrations
APPROVED

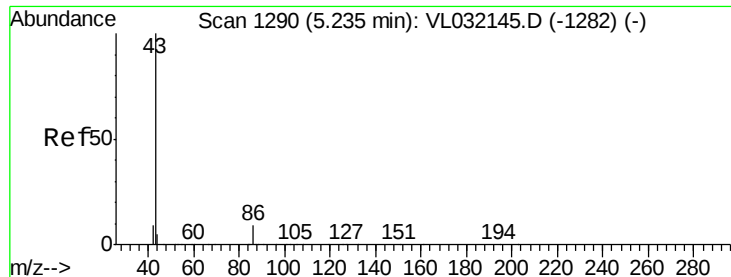
MMDadoda
7/2/2018 4:25:59 PM



#22
trans-1,2-Dichloroethene
Concen: 9.79 ppbv
RT: 5.04 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	630436		
61	172.5		135.2	202.8
98	65.4		49.7	74.5





#23

Vinyl Acetate

Concen: 9.00 ppbv

RT: 5.23 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2590676

Ion Ratio Lower Upper

43 100

86 7.6 6.2 9.4

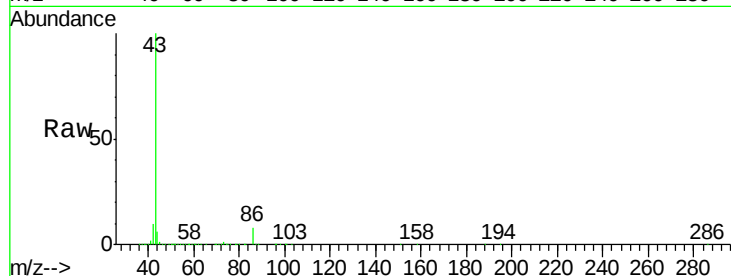
42 9.8 6.9 10.3

44 5.5 3.8 5.8

Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:25:59 PM

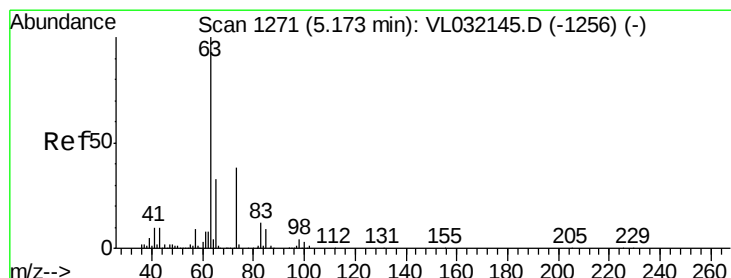
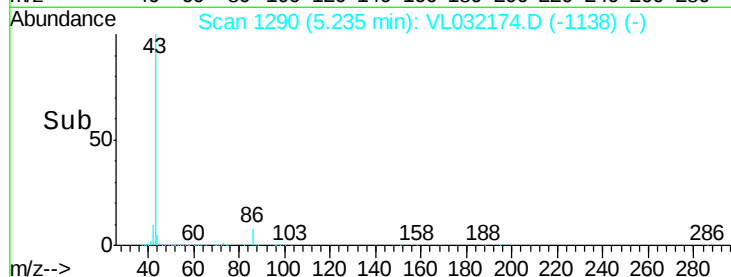
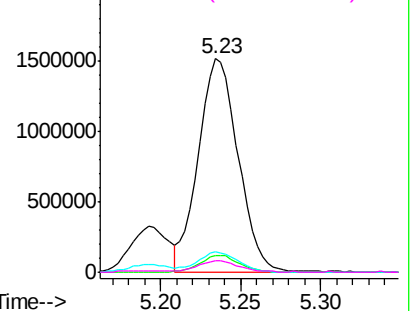


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.36 ppbv

RT: 5.17 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

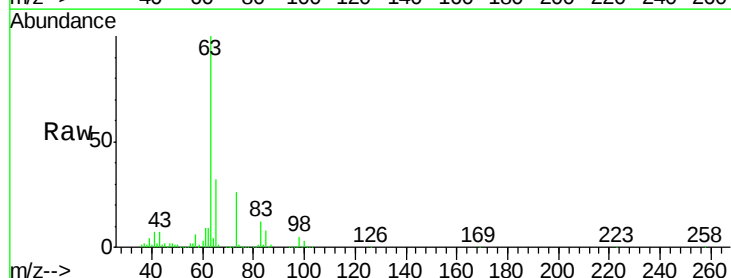
Tgt Ion: 63 Resp: 1725699

Ion Ratio Lower Upper

63 100

98 4.6 2.4 7.2

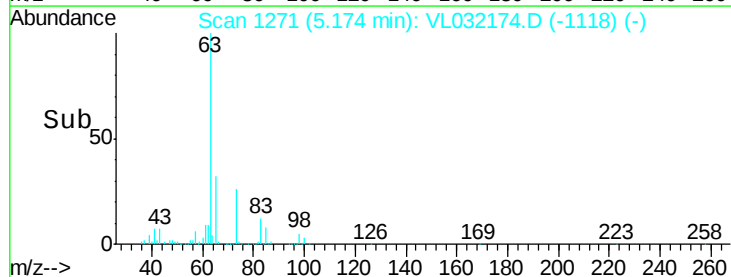
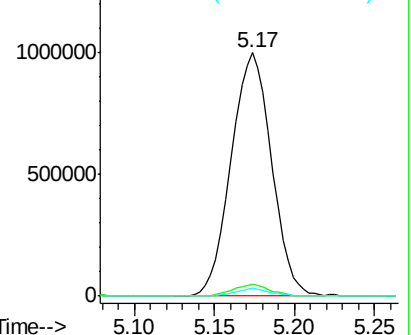
100 3.1 1.7 5.0

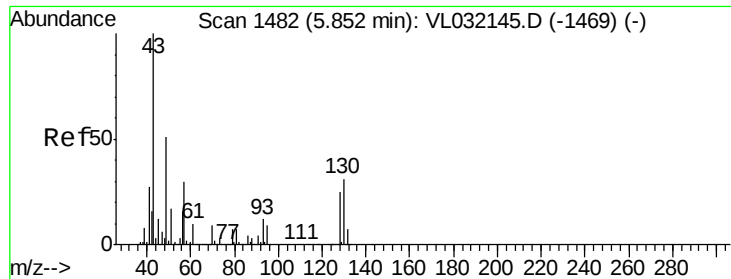


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





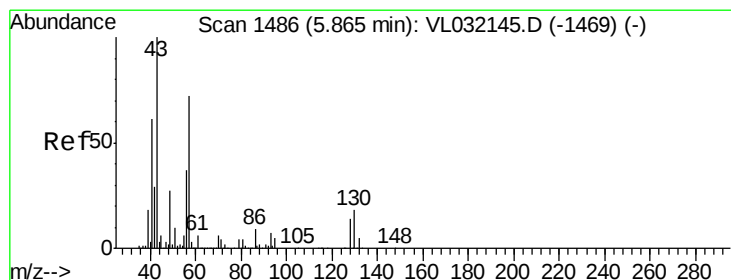
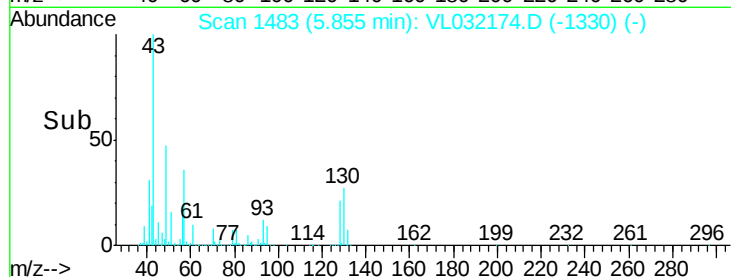
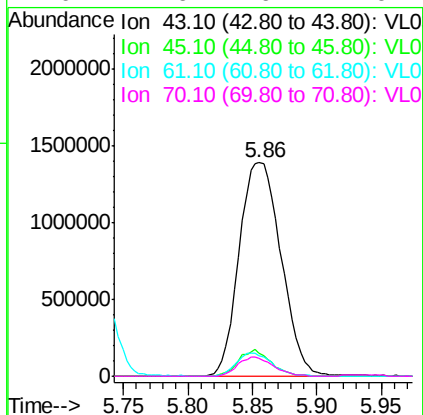
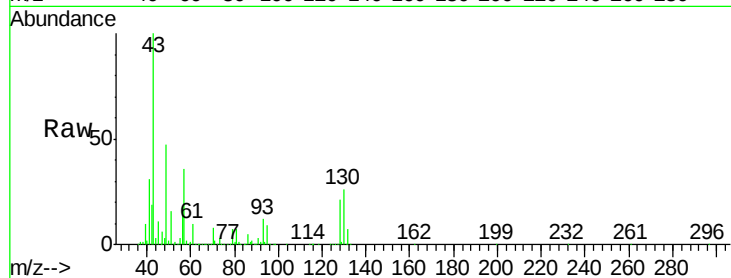
#25
Ethyl Acetate
Concen: 9.56 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	9.5	7.4	11.0
70	7.6	6.1	9.1

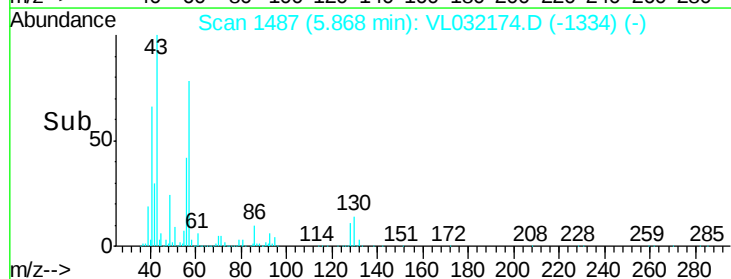
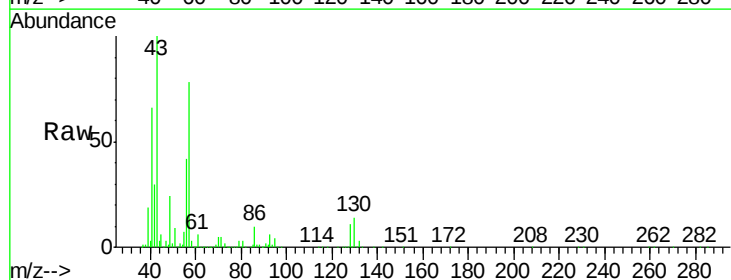
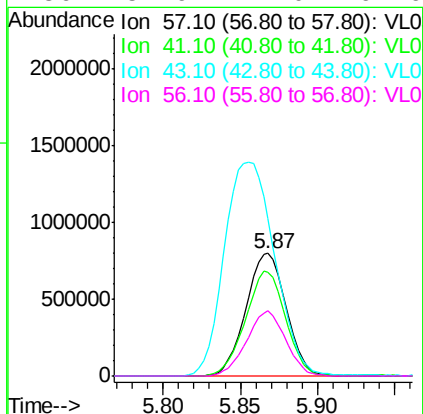
Manual Integrations
APPROVED

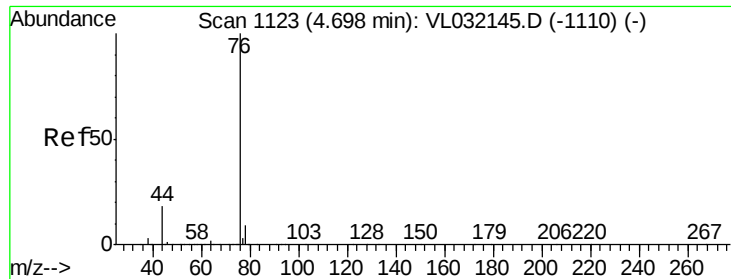
MMDadoda
7/2/2018 4:25:59 PM



#26
Hexane
Concen: 9.52 ppbv
RT: 5.87 min Scan# 1487
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.2	68.6	103.0
43	219.3	168.6	252.8
56	51.9	41.0	61.6





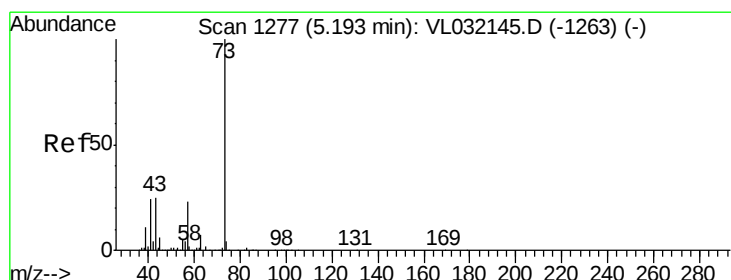
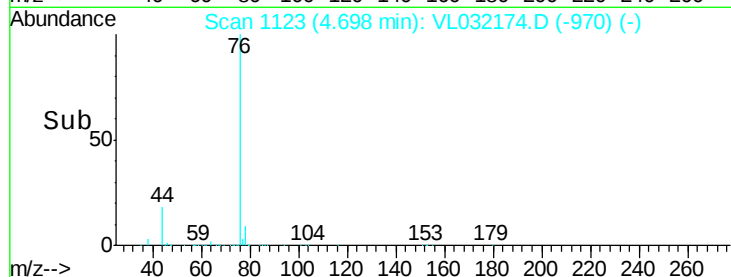
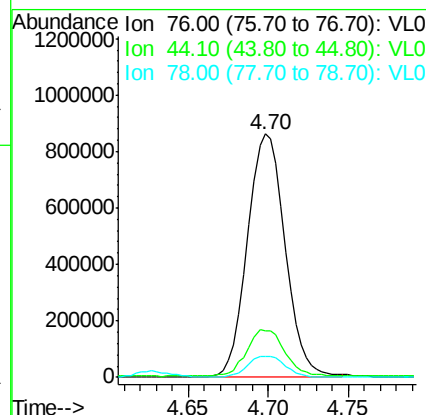
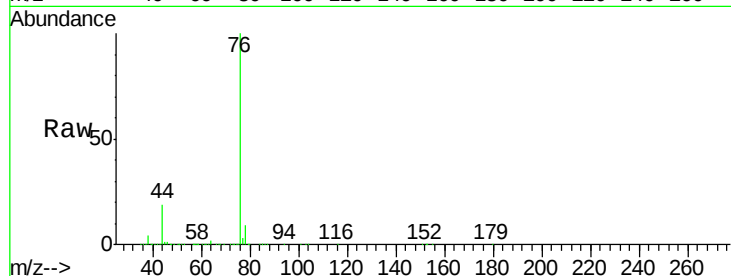
#27
Carbon Disulfide
Concen: 9.23 ppbv
RT: 4.70 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.9	15.1	22.7
78	8.8	7.2	10.8

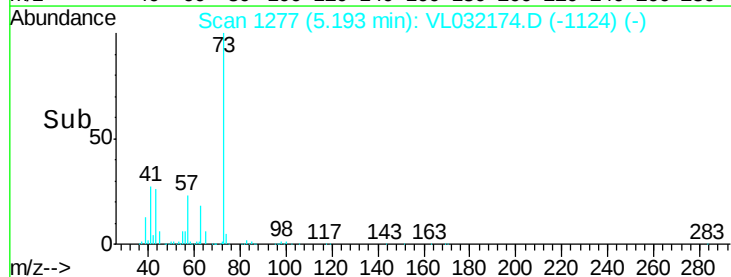
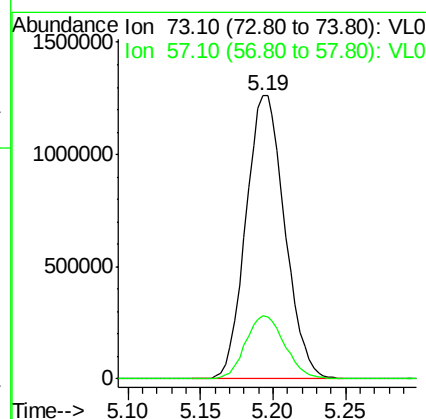
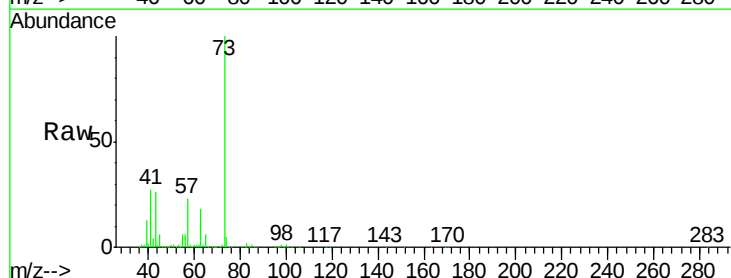
Manual Integrations
APPROVED

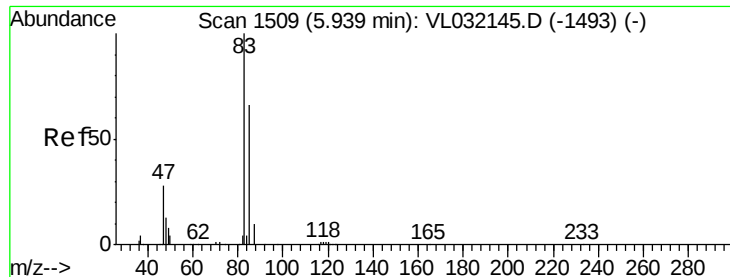
MMDadoda
7/2/2018 4:25:59 PM



#28
Methyl tert-Butyl Ether
Concen: 8.82 ppbv
RT: 5.19 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.6	27.8





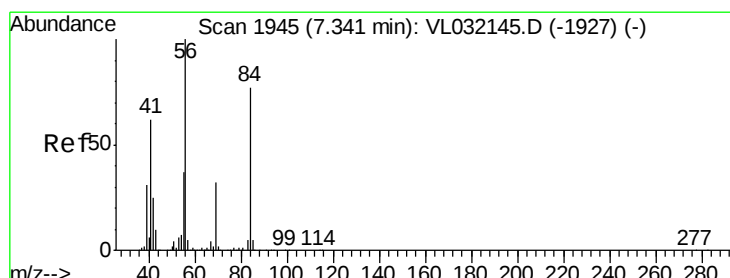
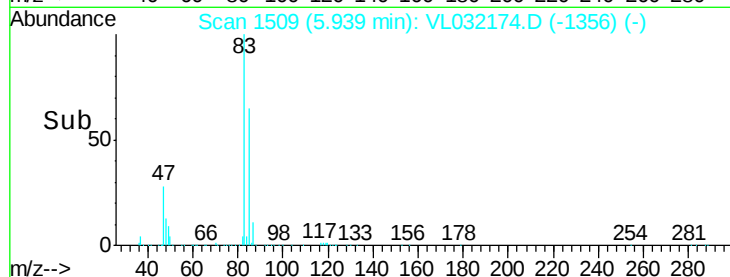
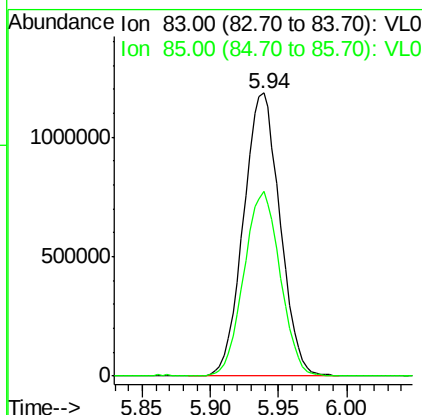
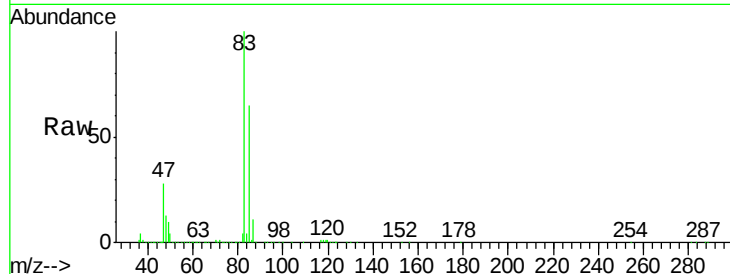
#29
Chloroform
Concen: 10.00 ppbv
RT: 5.94 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2200999
Ion Ratio Lower Upper
83 100
85 64.9 51.6 77.4

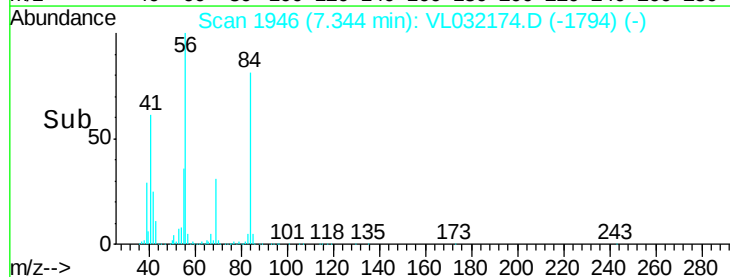
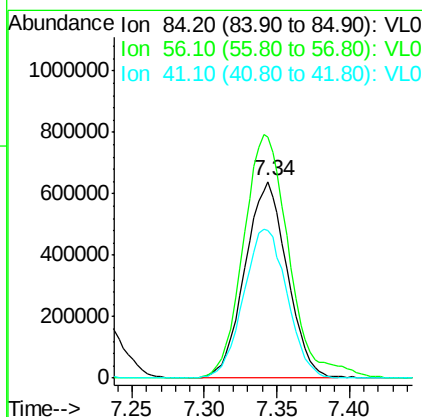
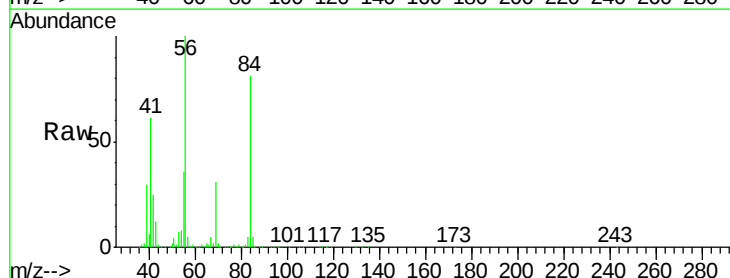
Manual Integrations
APPROVED

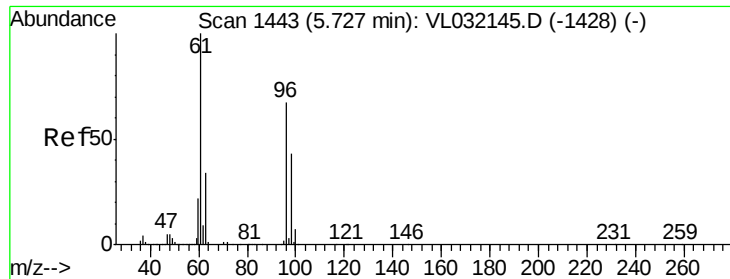
MMDadoda
7/2/2018 4:25:59 PM



#30
Cyclohexane
Concen: 9.09 ppbv
RT: 7.34 min Scan# 1946
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion: 84 Resp: 1294761
Ion Ratio Lower Upper
84 100
56 134.2 109.1 163.7
41 78.1 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 9.94 ppbv

RT: 5.73 min Scan# 1444

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

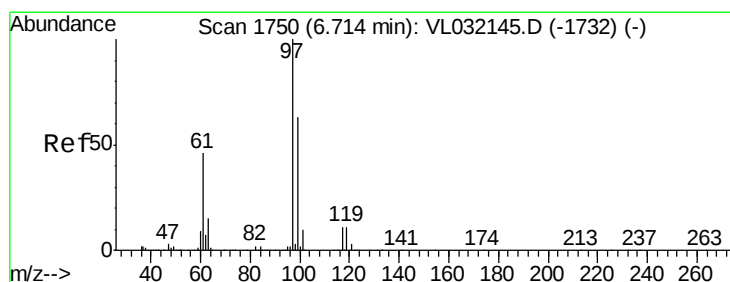
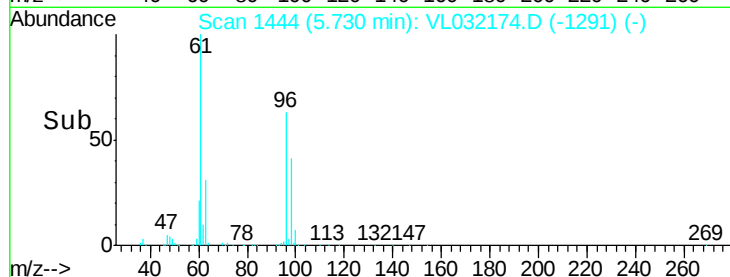
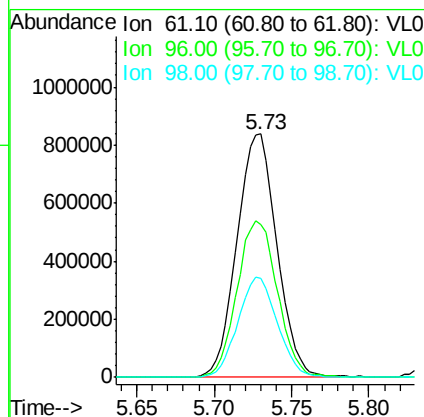
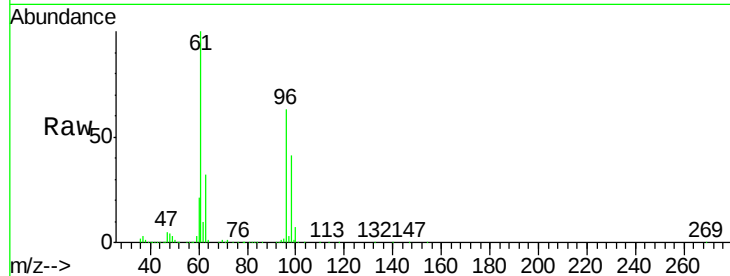
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	1501754
Ion	Ratio	Lower	Upper
61	100		
96	62.7	54.2	81.4
98	40.5	34.6	52.0

Manual Integrations
APPROVED

MMDadoda
7/2/2018 4:25:59 PM



#32

1,1,1-Trichloroethane

Concen: 9.03 ppbv

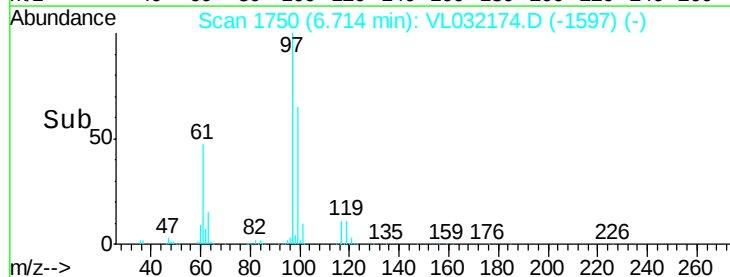
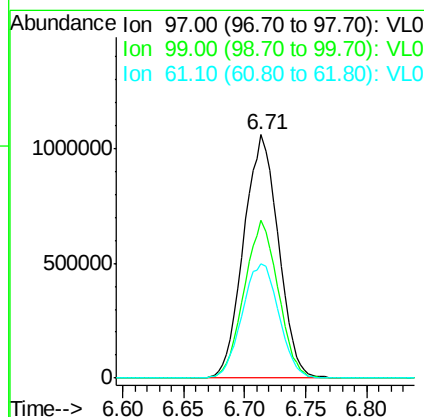
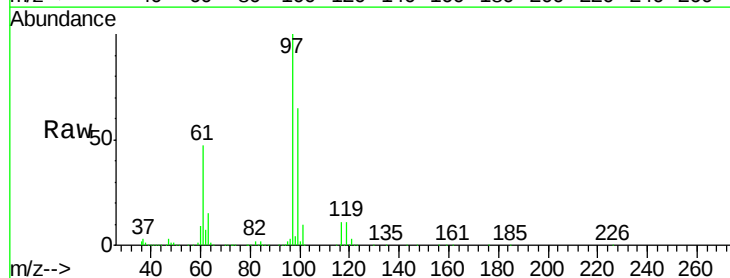
RT: 6.71 min Scan# 1750

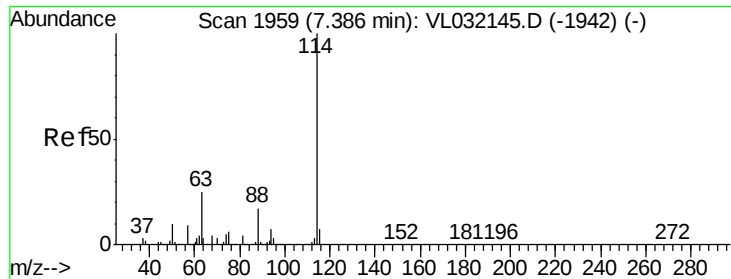
Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Tgt Ion:	97	Resp:	2081832
Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.3	76.9
61	49.8	38.4	57.6





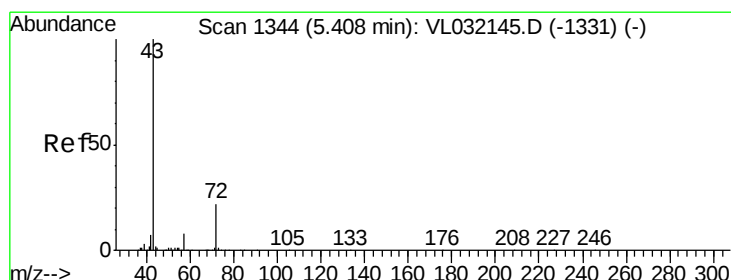
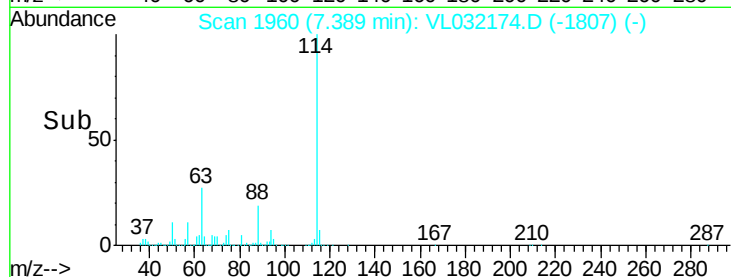
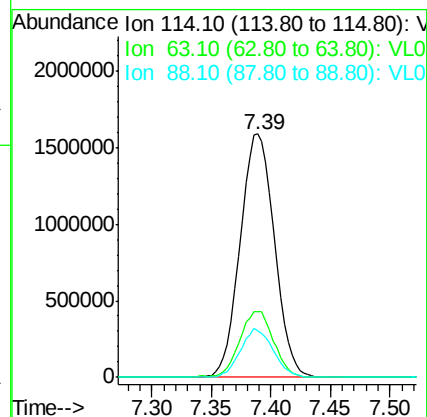
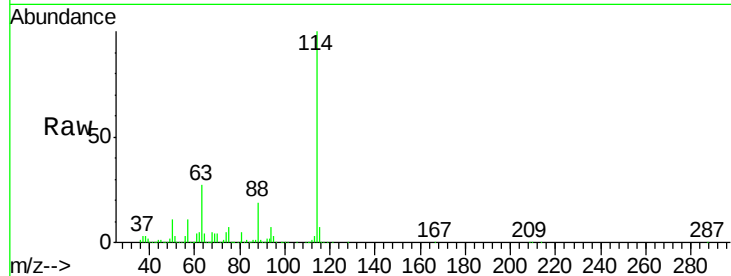
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.39 min Scan# 1960
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	19.1	28.7
88	19.0	13.9	20.9

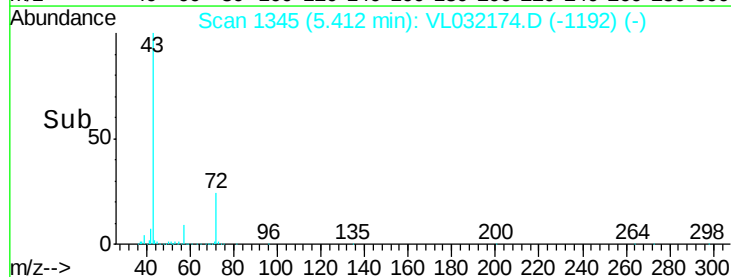
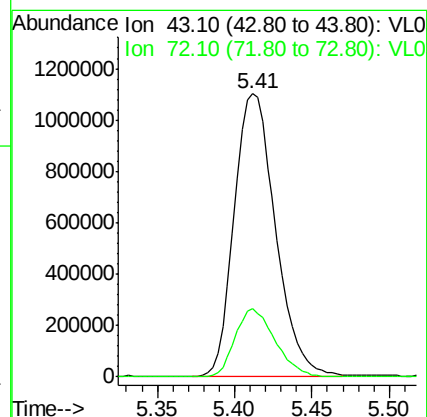
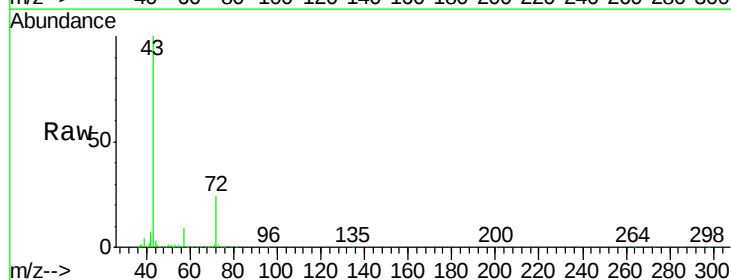
Manual Integrations
 APPROVED

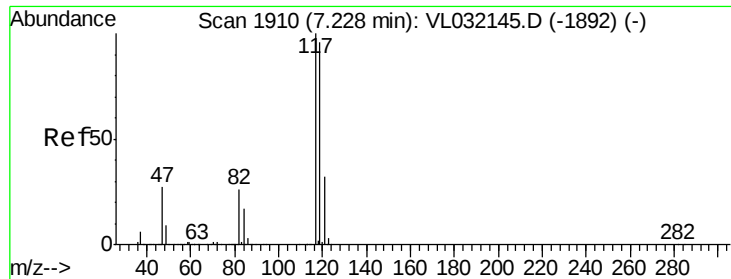
MMDadoda
 7/2/2018 4:25:59 PM



#34
 2-Butanone
 Concen: 10.09 ppbv
 RT: 5.41 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.4	27.6





#35

Carbon Tetrachloride

Concen: 9.71 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2110718

Ion Ratio Lower Upper

117 100

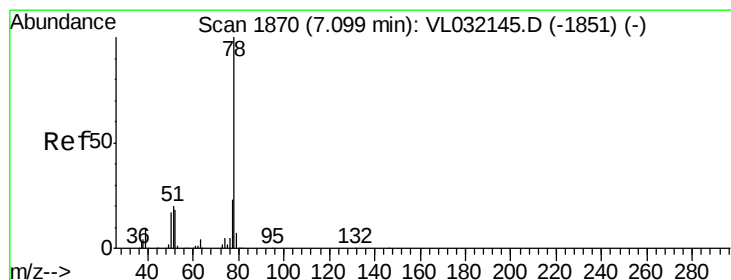
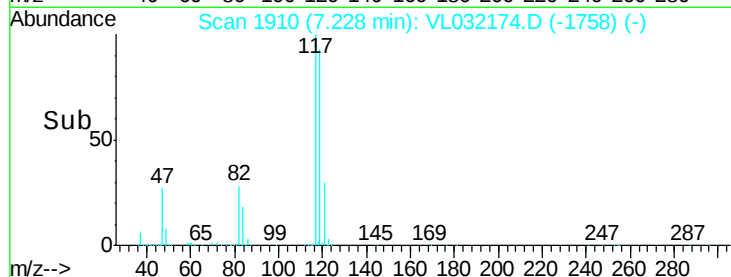
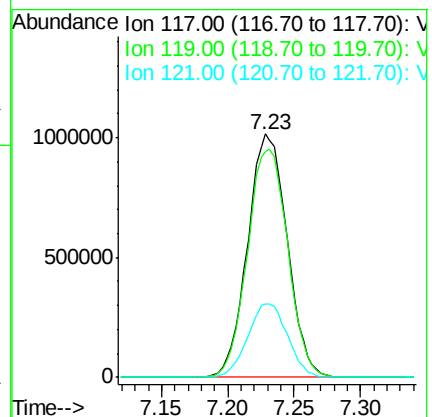
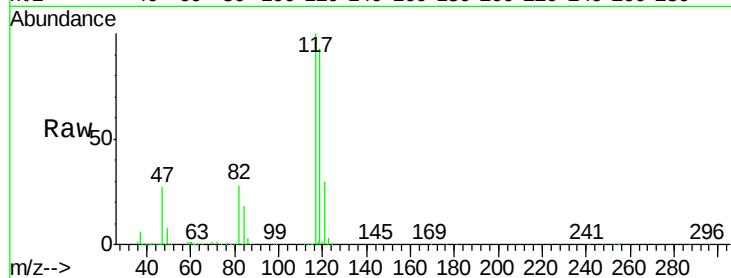
119 92.9 74.8 112.2

121 30.3 24.0 36.0

Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:25:59 PM



#36

Benzene

Concen: 10.08 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

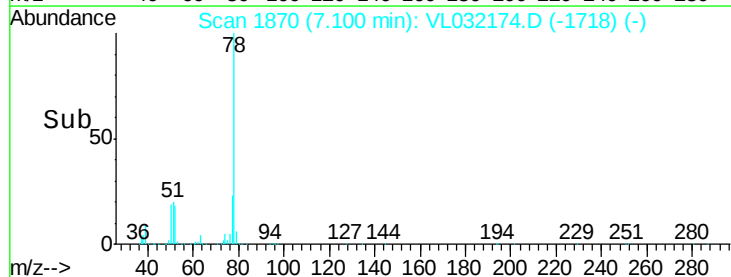
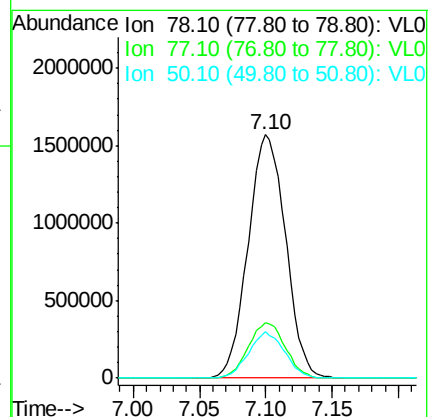
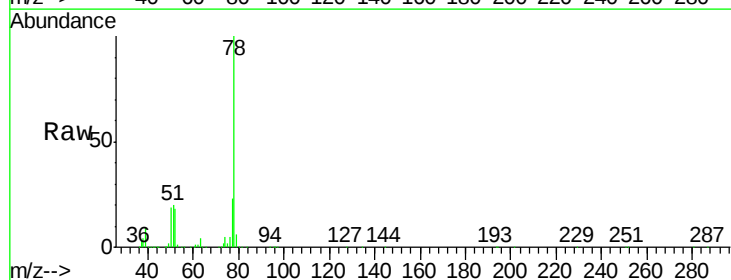
Tgt Ion: 78 Resp: 3096313

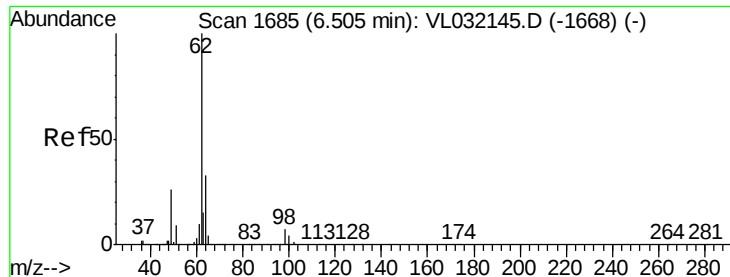
Ion Ratio Lower Upper

78 100

77 22.8 17.7 26.5

50 19.0 14.0 21.0





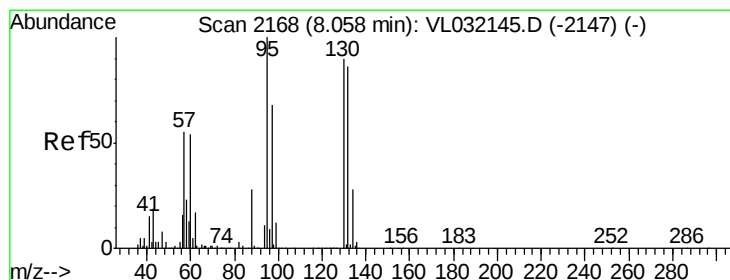
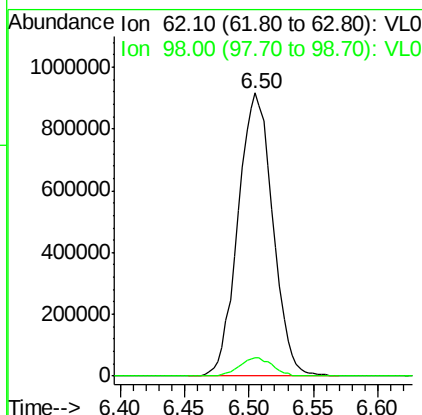
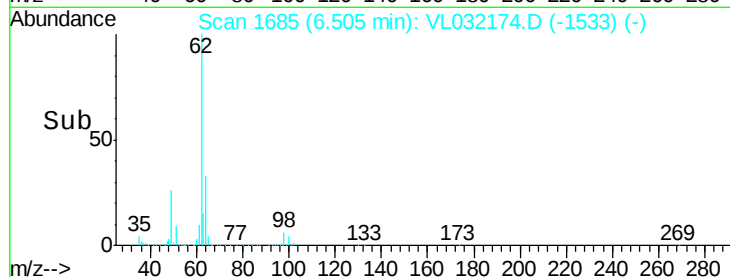
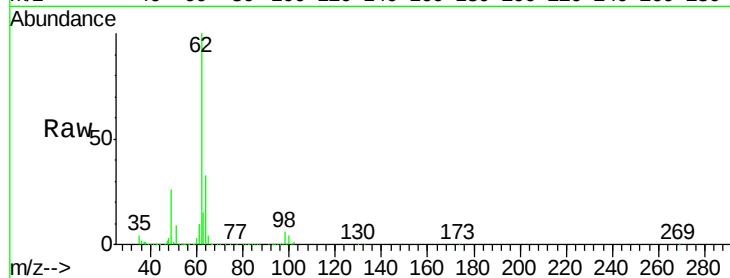
#37
 1,2-Dichloroethane
 Concen: 11.22 ppbv
 RT: 6.50 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.8	8.6

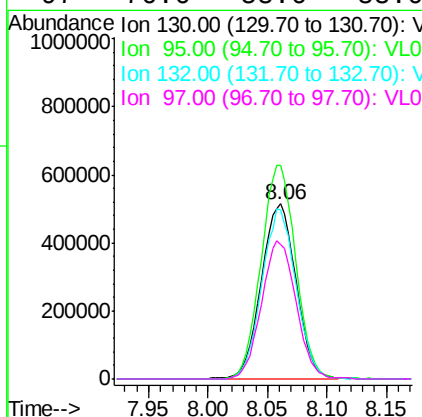
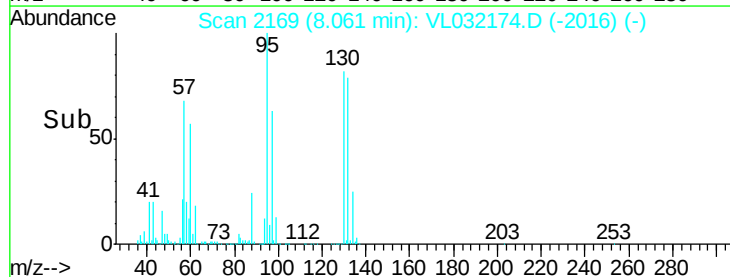
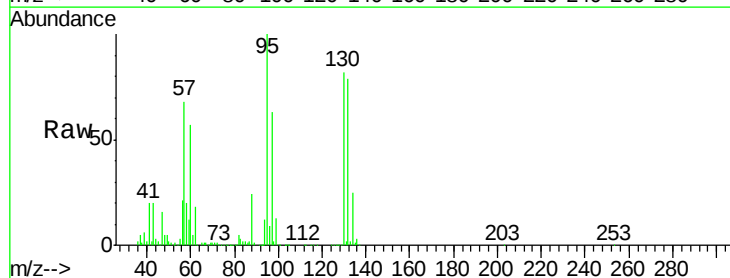
Manual Integrations
 APPROVED

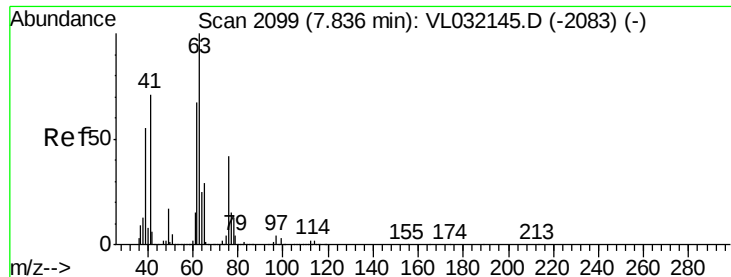
MMDadoda
 7/2/2018 4:25:59 PM



#38
 Trichloroethene
 Concen: 8.68 ppbv
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	122.0	88.1	132.1
132	96.8	74.6	112.0
97	76.6	58.6	88.0





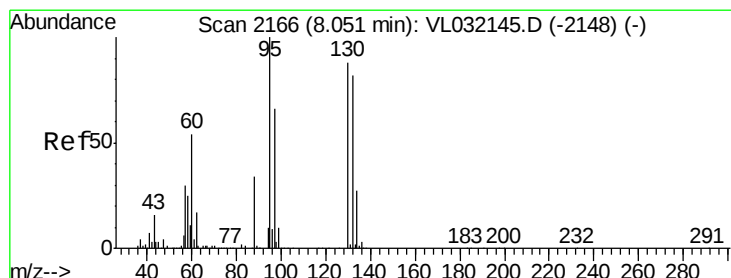
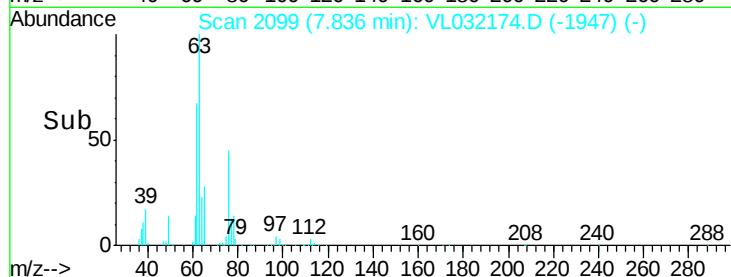
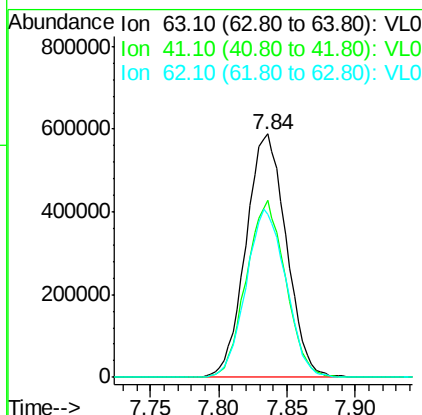
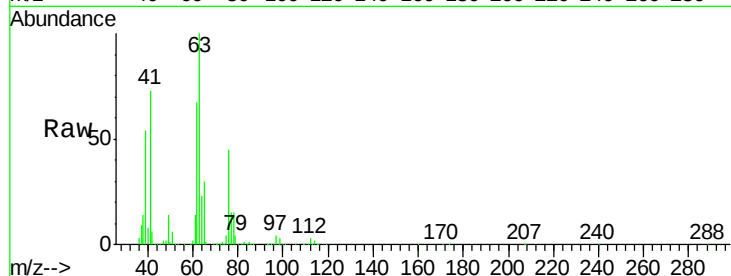
#39
 1,2-Dichloropropane
 Concen: 9.98 ppbv
 RT: 7.84 min Scan# 2099
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.6	53.3	79.9
62	67.1	54.8	82.2

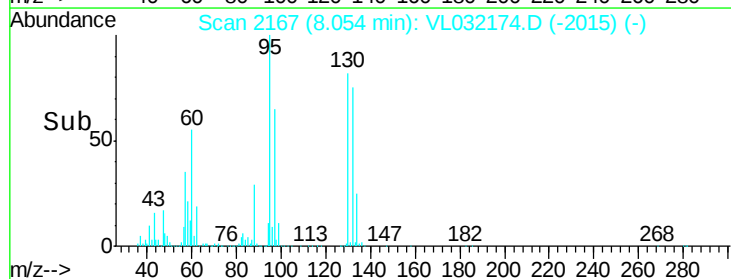
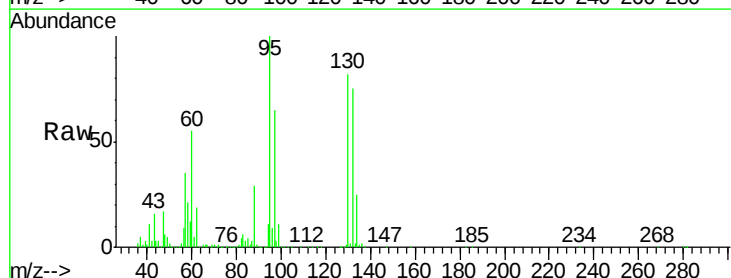
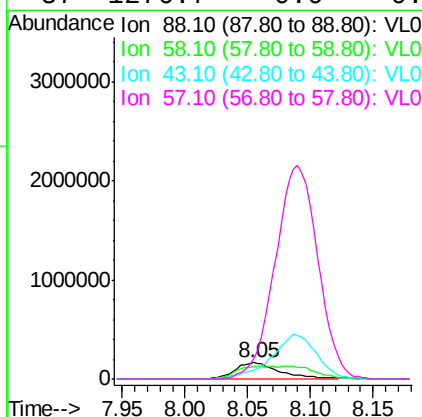
Manual Integrations
 APPROVED

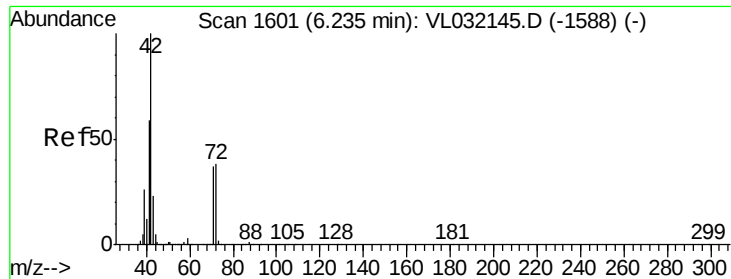
MMDadoda
 7/2/2018 4:25:59 PM



#40
 1,4-Dioxane
 Concen: 8.47 ppbv
 RT: 8.05 min Scan# 2167
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
88	100		
58	135.7	47.4	71.0#
43	280.1	0.0	0.0#
57	1276.7	0.0	0.0#





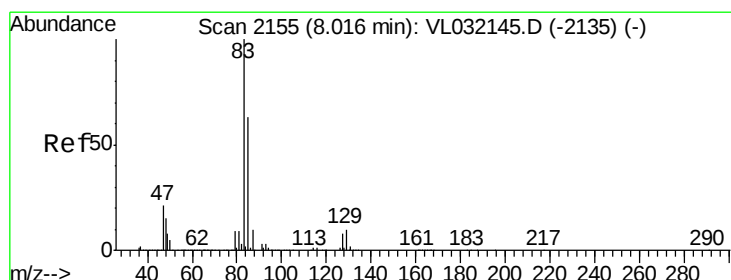
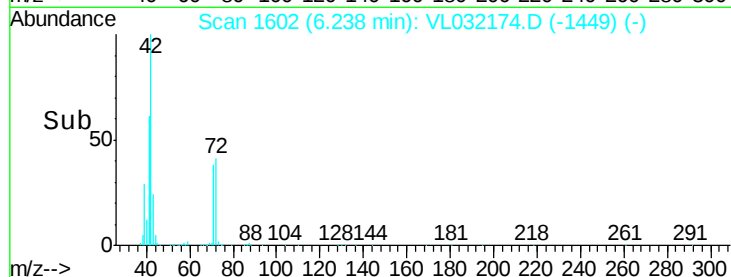
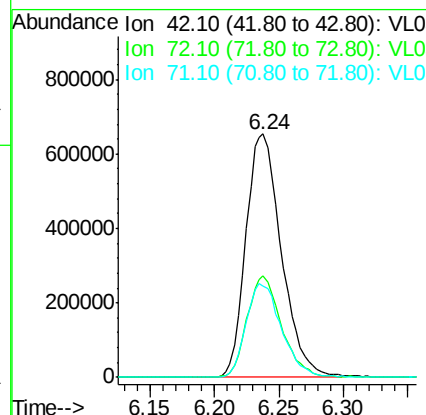
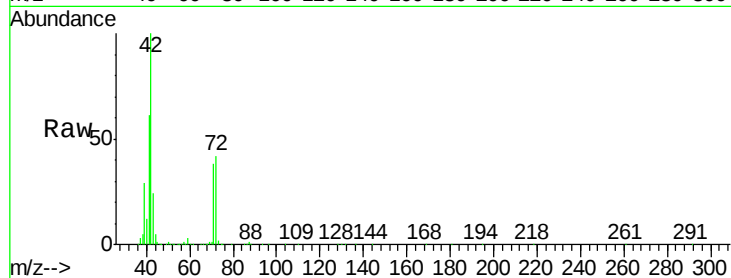
#41
Tetrahydrofuran
Concen: 10.39 ppbv
RT: 6.24 min Scan# 1602
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.6	31.1	46.7
71	39.0	29.5	44.3

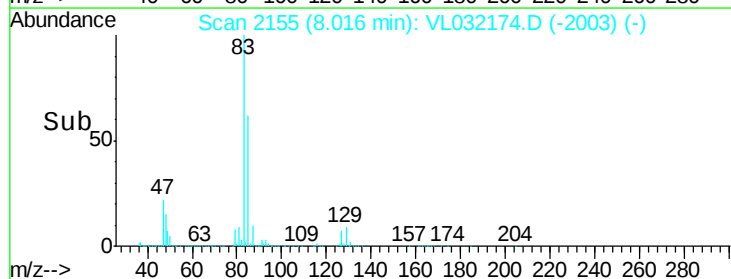
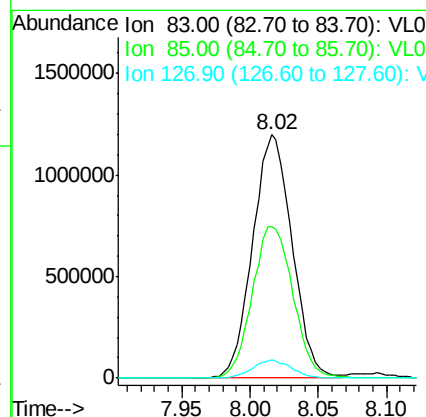
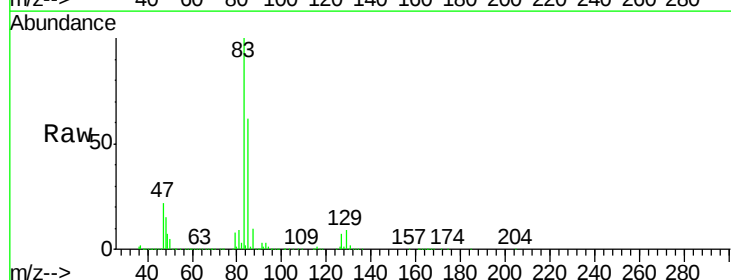
Manual Integrations
APPROVED

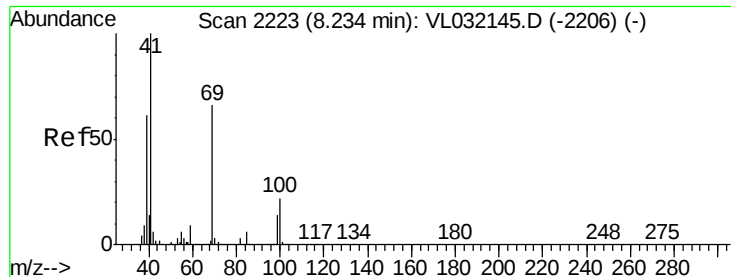
MMDadoda
7/2/2018 4:25:59 PM



#42
Bromodichloromethane
Concen: 10.05 ppbv
RT: 8.02 min Scan# 2155
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.6	79.0
127	7.3	6.5	9.7





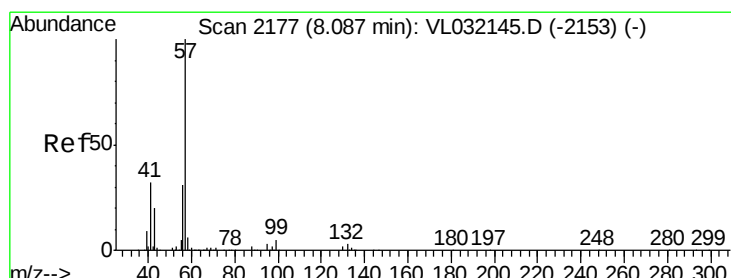
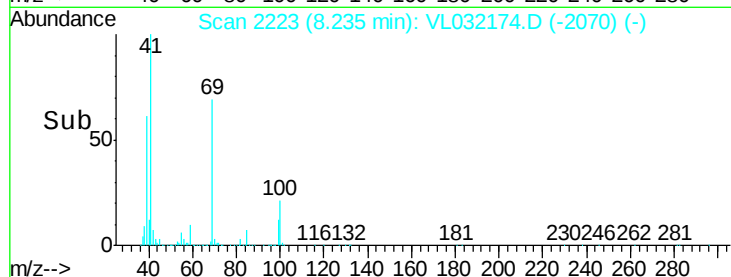
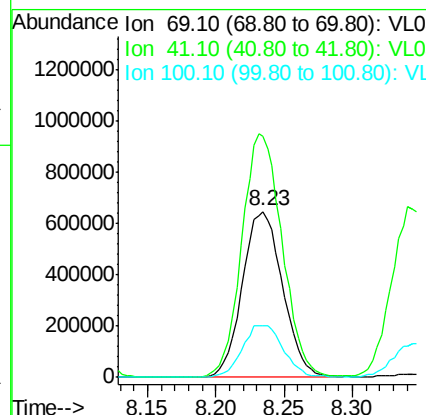
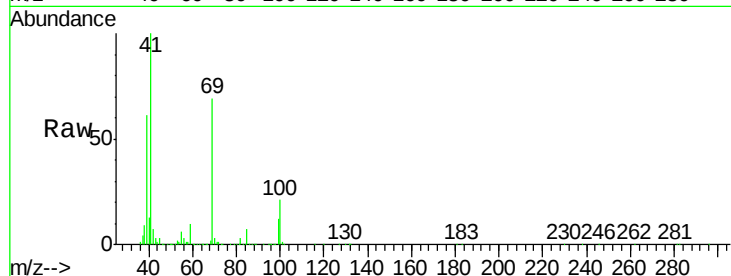
#43
Methvl Methacrylate
Concen: 10.45 ppbv
RT: 8.23 min Scan# 2223
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1331500
Ion Ratio Lower Upper
69 100
41 145.9 118.2 177.4
100 31.7 27.4 41.2

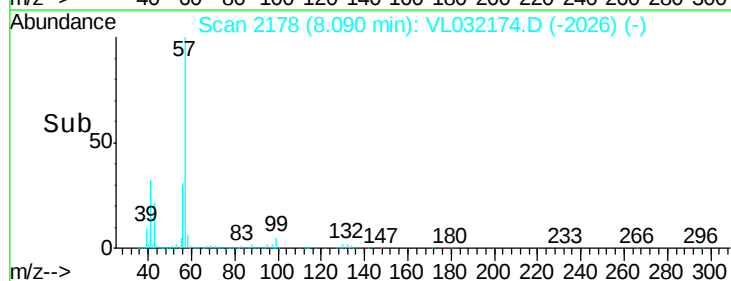
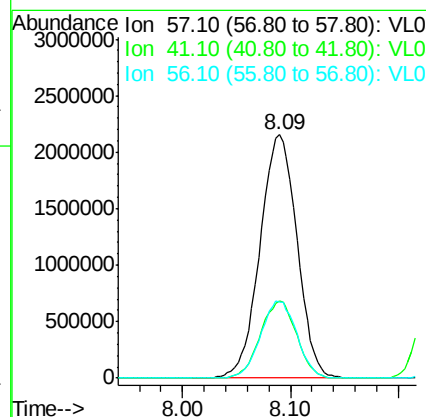
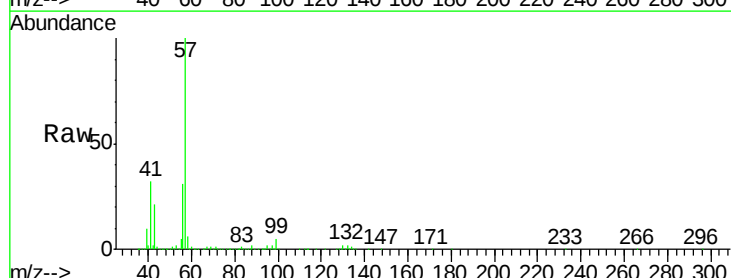
Manual Integrations
APPROVED

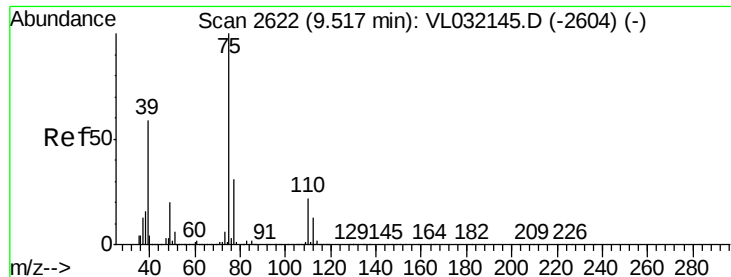
MMDadoda
7/2/2018 4:25:59 PM



#44
2,2,4-Trimethylpentane
Concen: 9.54 ppbv
RT: 8.09 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion: 57 Resp: 5129419
Ion Ratio Lower Upper
57 100
41 31.0 24.3 36.5
56 31.1 25.1 37.7





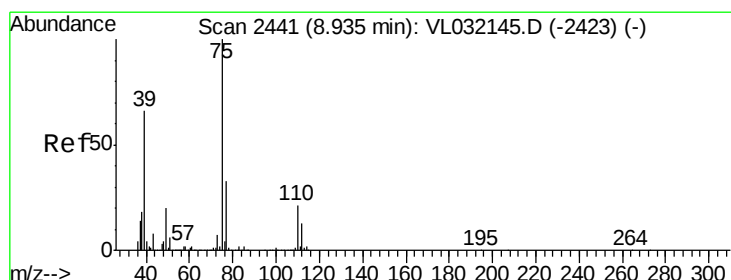
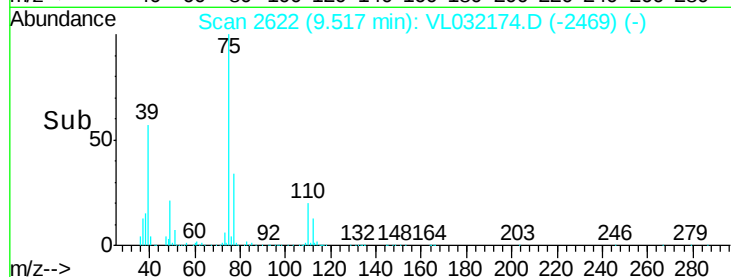
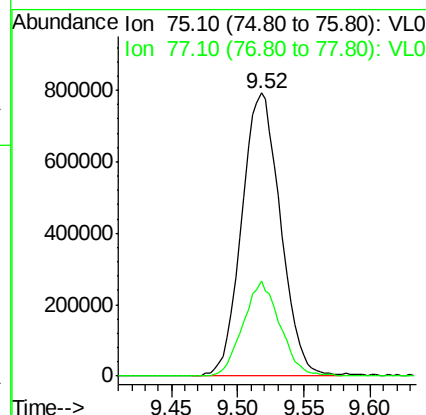
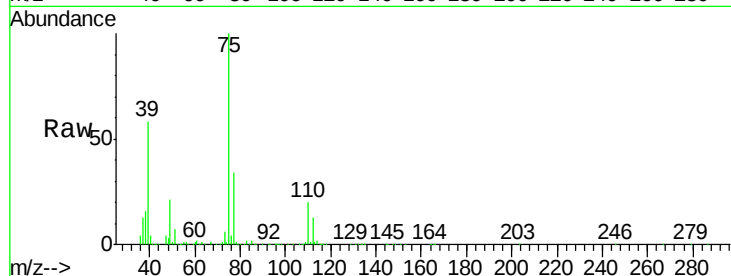
#45
t-1,3-Dichloropropene
Concen: 10.20 ppbv
RT: 9.52 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1609519
Ion Ratio Lower Upper
75 100
77 33.7 25.6 38.4

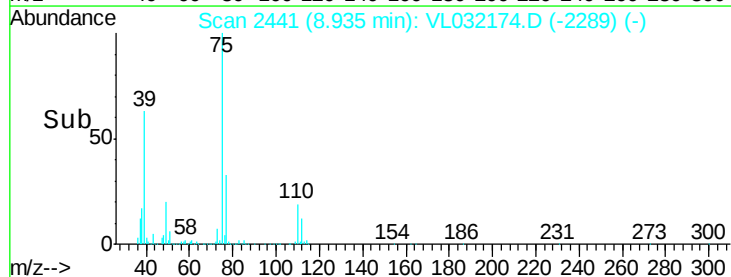
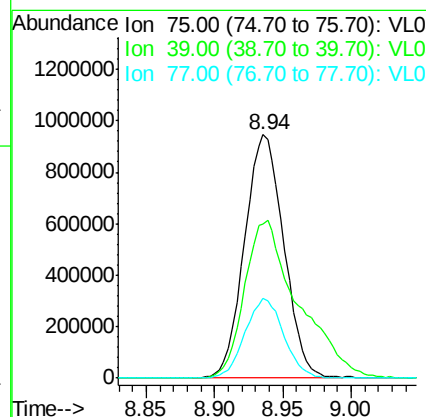
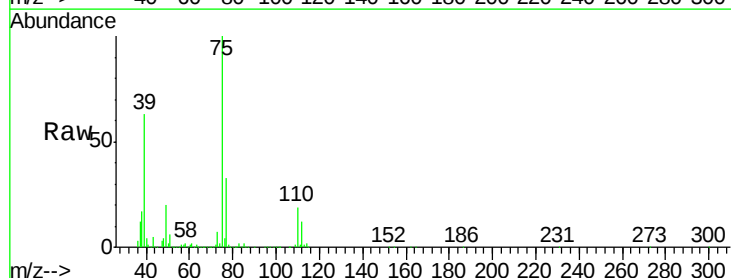
Manual Integrations
APPROVED

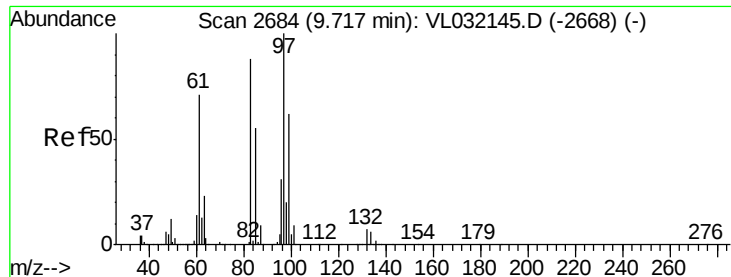
MMDadoda
7/2/2018 4:25:59 PM



#46
cis-1,3-Dichloropropene
Concen: 10.02 ppbv
RT: 8.94 min Scan# 2441
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion: 75 Resp: 1889180
Ion Ratio Lower Upper
75 100
39 63.1 51.9 77.9
77 32.5 24.3 36.5





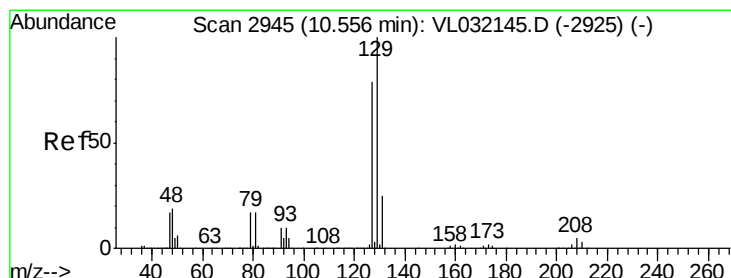
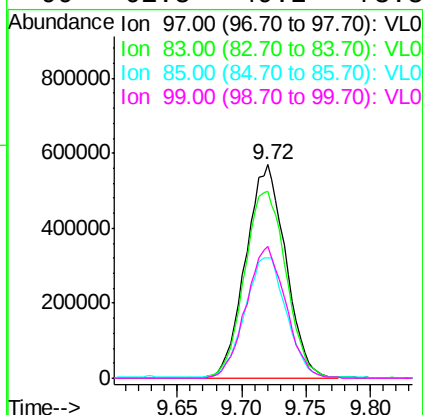
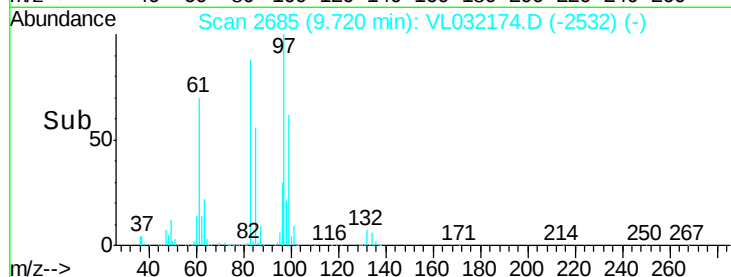
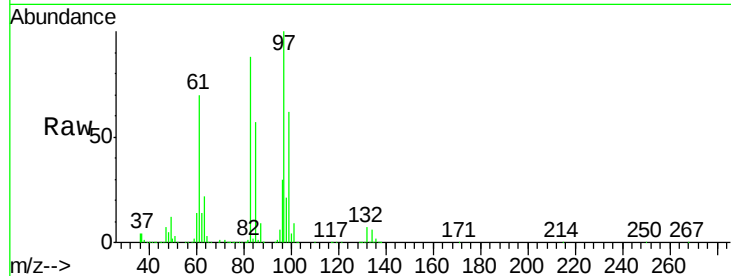
#47
 1,1,2-Trichloroethane
 Concen: 9.80 ppbv
 RT: 9.72 min Scan# 2685
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.6	71.0	106.4
85	56.0	44.2	66.4
99	61.8	49.2	73.8

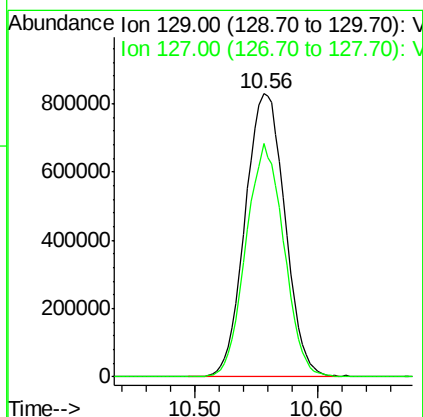
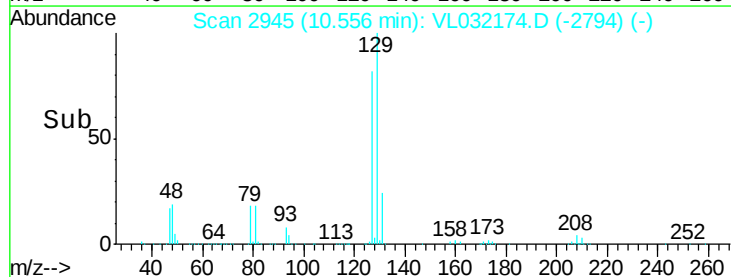
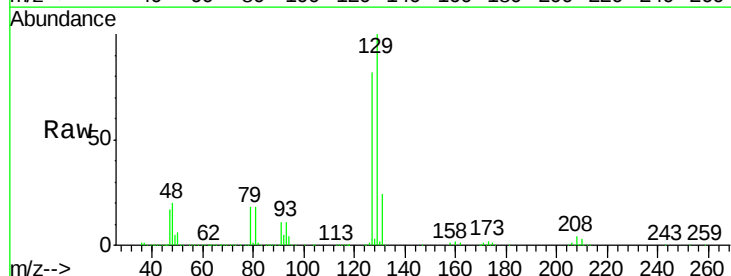
Manual Integrations
 APPROVED

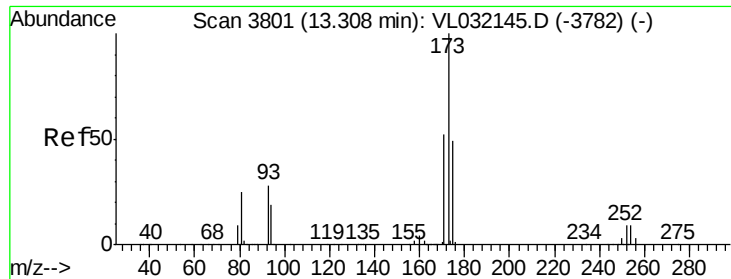
MMDadoda
 7/2/2018 4:25:59 PM



#48
 Dibromochloromethane
 Concen: 9.58 ppbv
 RT: 10.56 min Scan# 2945
 Delta R.T. -0.02 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.1	117.5





#49

Bromoform

Concen: 9.39 ppbv

RT: 13.31 min Scan# 3802

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1532772

Ion Ratio Lower Upper

173 100

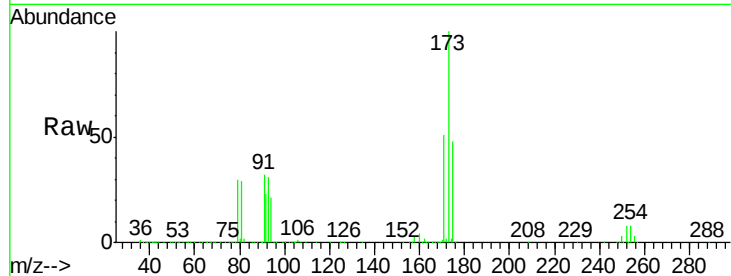
175 48.9 39.4 59.0

171 52.5 41.8 62.8

Manual Integrations
APPROVED

MMDadoda

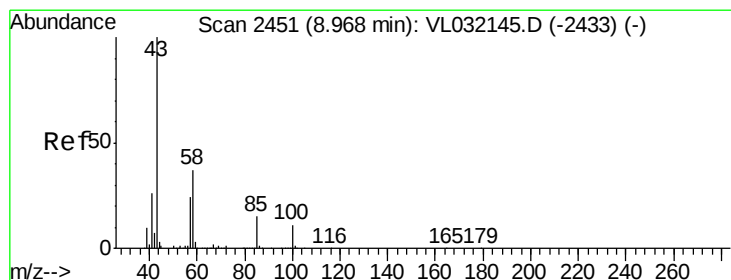
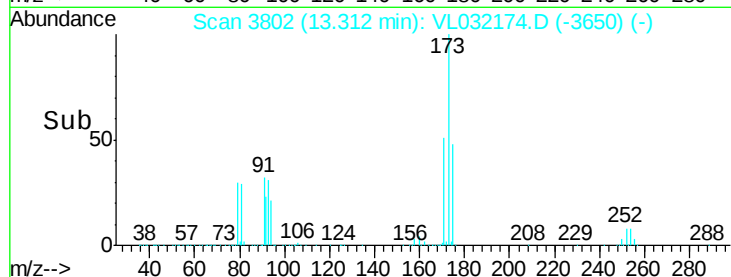
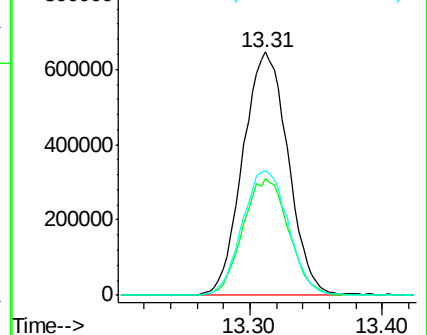
7/2/2018 4:25:59 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.71 ppbv

RT: 8.97 min Scan# 2452

Delta R.T. -0.01 min

Lab File: VL032174.D

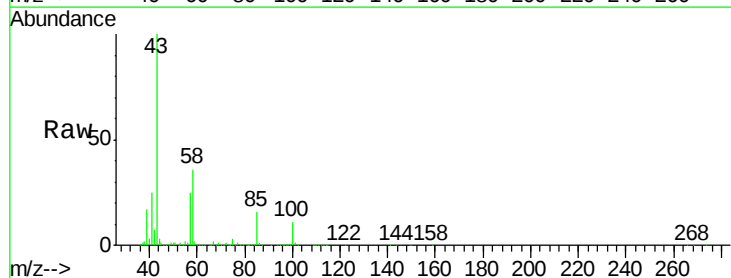
Acq: 30 Jun 2018 17:08

Tgt Ion: 43 Resp: 3204337

Ion Ratio Lower Upper

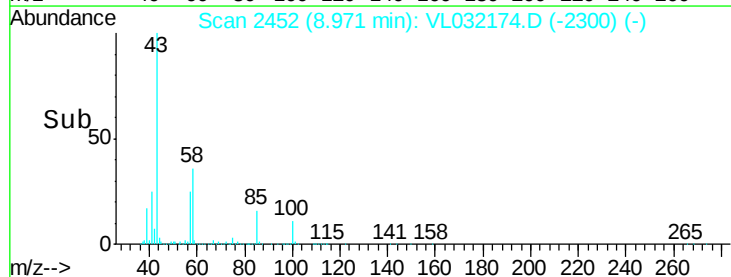
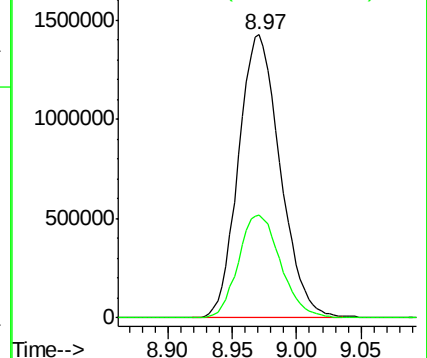
43 100

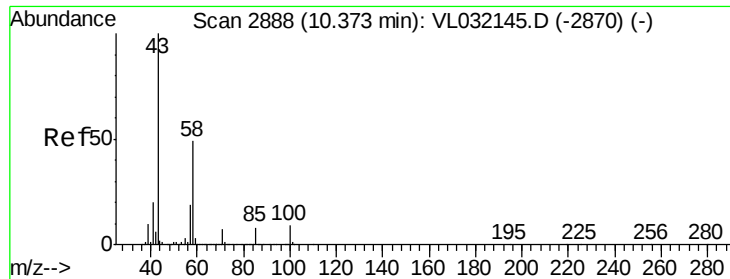
58 37.0 29.8 44.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





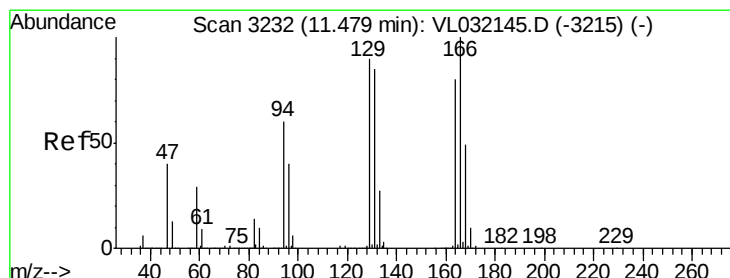
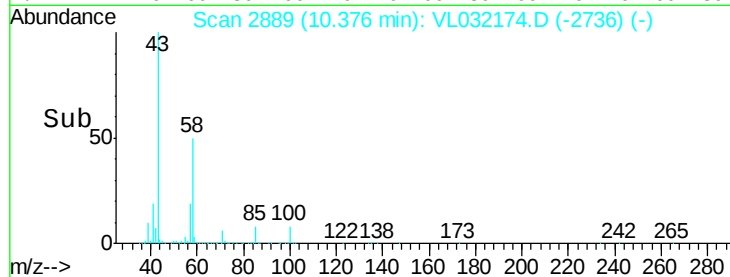
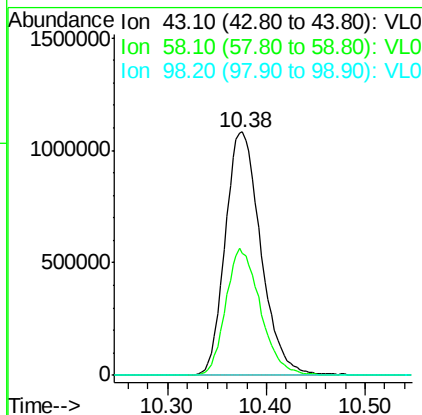
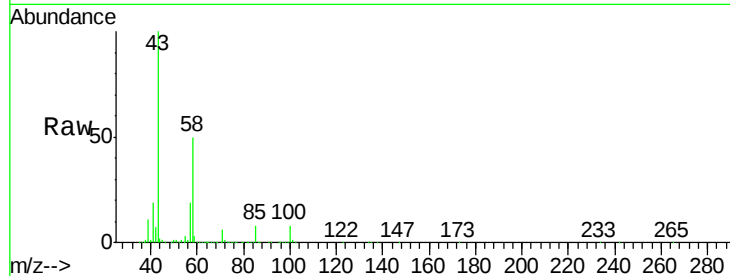
#51
2-Hexanone
Concen: 9.95 ppbv
RT: 10.38 min Scan# 2889
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2721963
Ion Ratio Lower Upper
43 100
58 50.7 40.6 60.8
98 0.1 0.1 0.1#

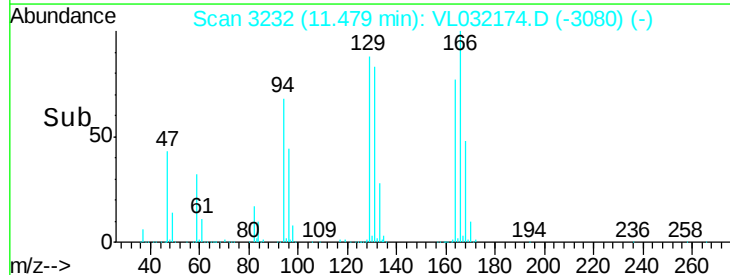
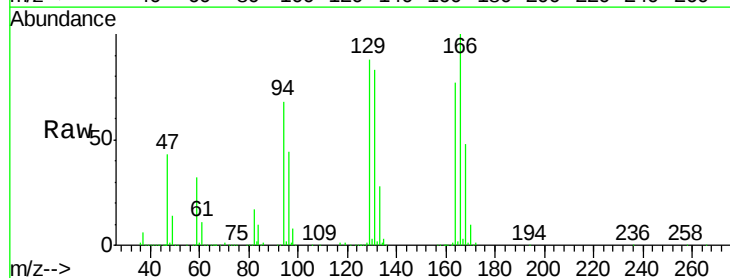
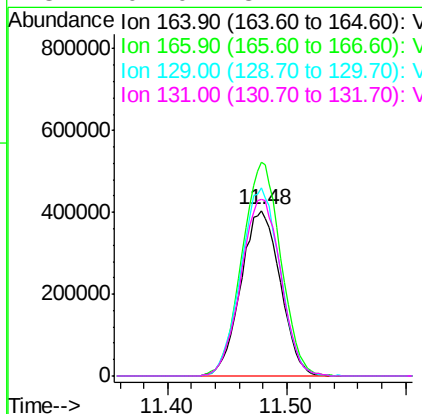
Manual Integrations
APPROVED

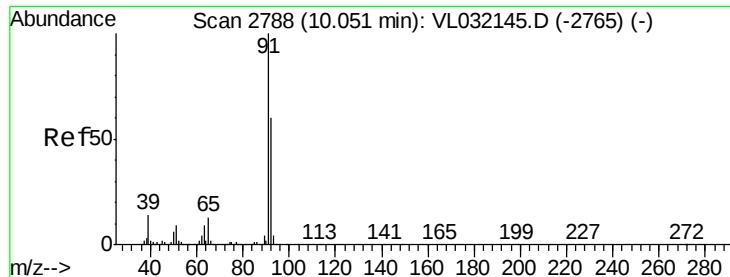
MMDadoda
7/2/2018 4:25:59 PM



#52
Tetrachloroethene
Concen: 8.30 ppbv
RT: 11.48 min Scan# 3232
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion: 164 Resp: 927721
Ion Ratio Lower Upper
164 100
166 129.0 100.6 151.0
129 113.6 84.0 126.0
131 107.0 82.7 124.1





#53

Toluene

Concen: 9.57 ppbv

RT: 10.05 min Scan# 2788

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3555079

Ion Ratio Lower Upper

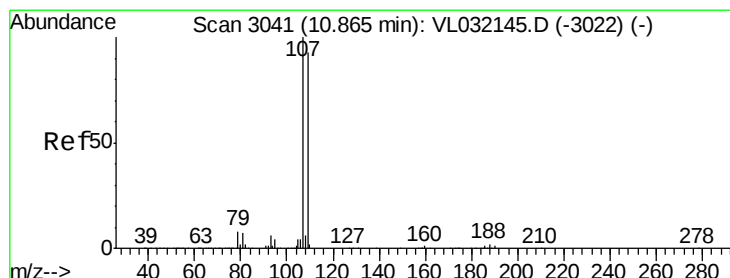
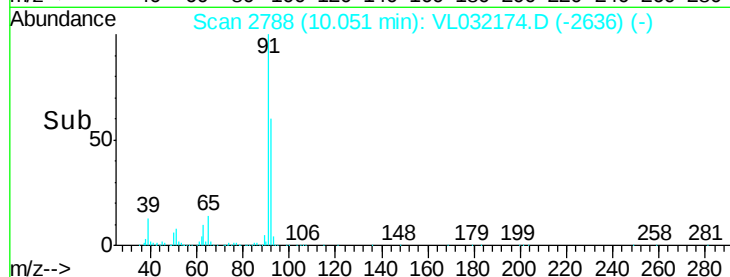
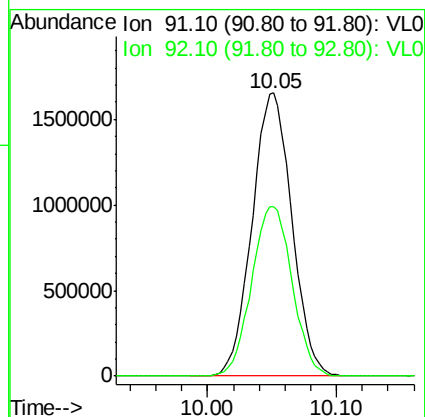
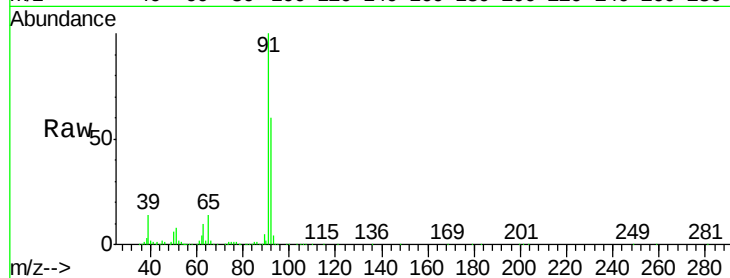
91 100

92 61.1 49.2 73.8

Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:25:59 PM



#54

1,2-Dibromoethane

Concen: 9.64 ppbv

RT: 10.87 min Scan# 3042

Delta R.T. -0.01 min

Lab File: VL032174.D

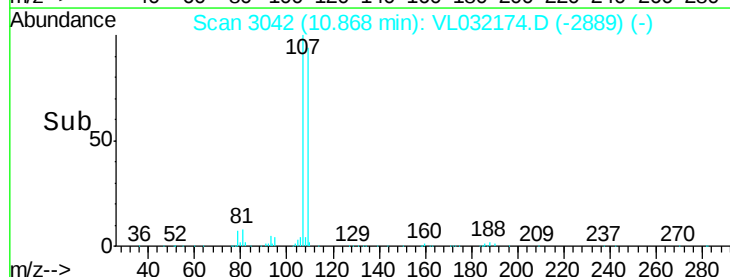
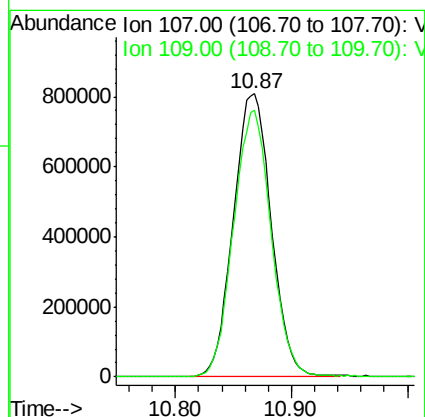
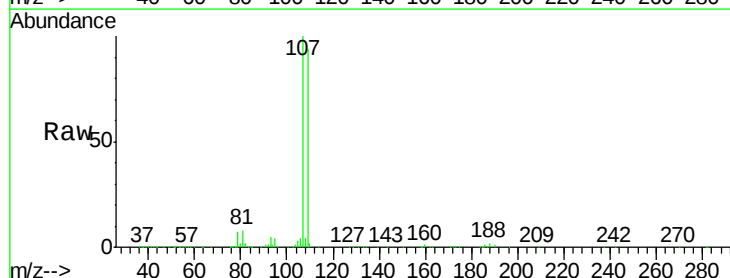
Acq: 30 Jun 2018 17:08

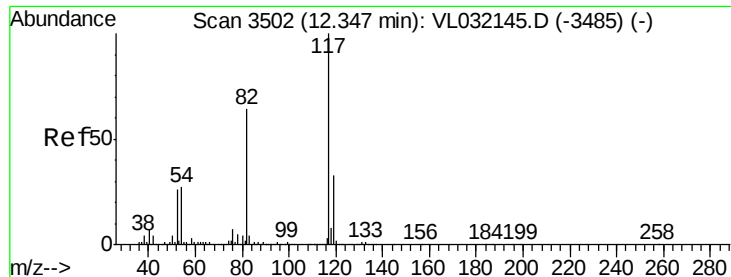
Tgt Ion: 107 Resp: 1826329

Ion Ratio Lower Upper

107 100

109 94.3 75.0 112.4





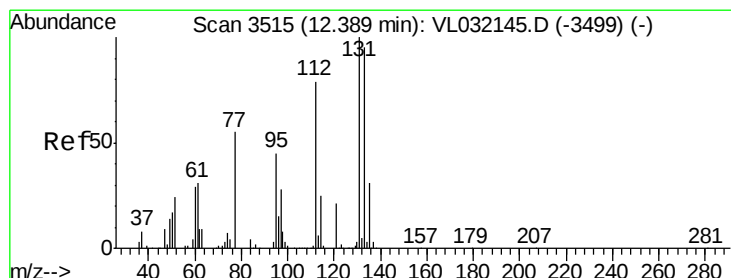
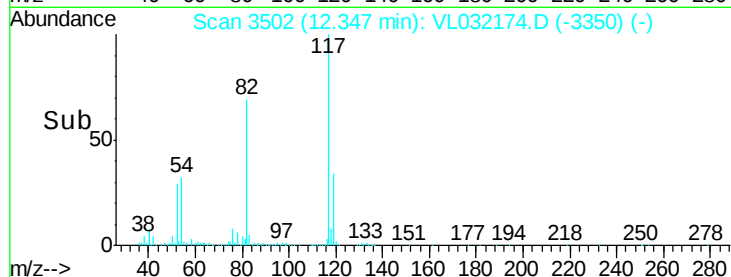
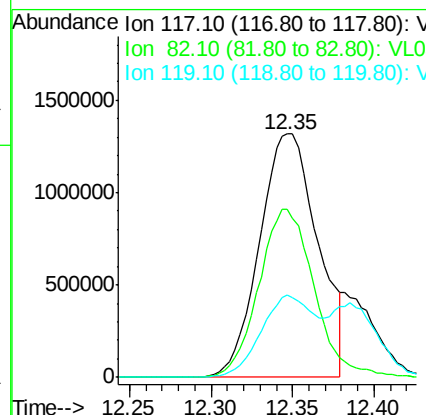
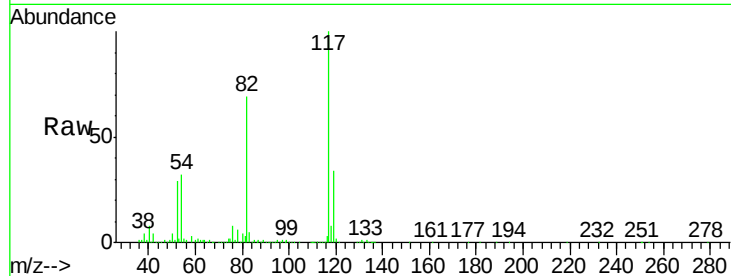
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.35 min Scan# 3502
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.9	47.8	71.8
119	29.9	43.3	64.9#

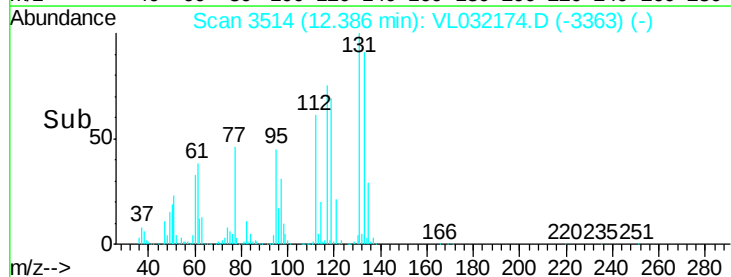
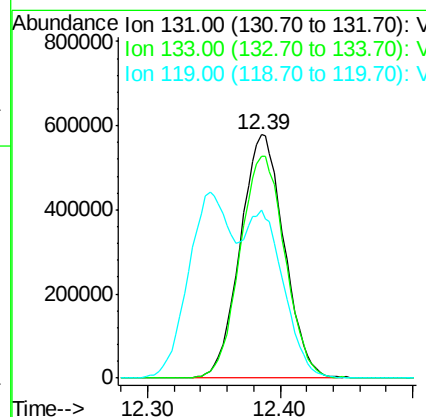
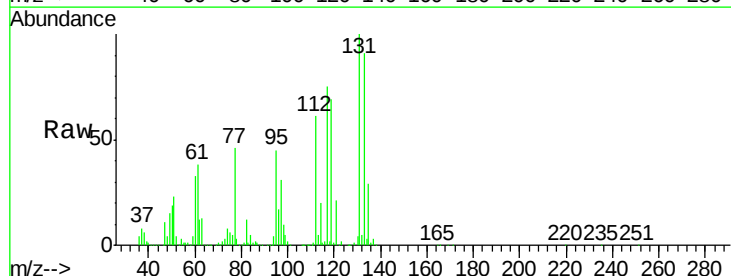
Manual Integrations
APPROVED

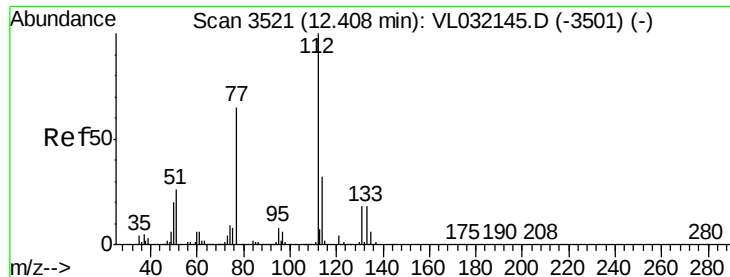
MMDadoda
7/2/2018 4:25:59 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.05 ppbv
RT: 12.39 min Scan# 3514
Delta R.T. -0.02 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.1	75.5	113.3
119	54.9	118.4	177.6#





#57

Chlorobenzene

Concen: 9.11 ppbv

RT: 12.41 min Scan# 3522

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

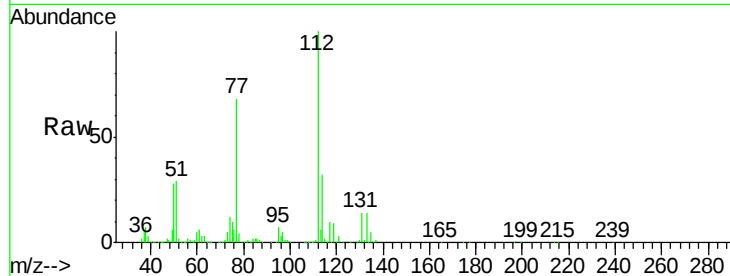
ClientSampleId :

VSTDCCC010EC

Tot Ion:	112	Resp:	2586011
Ion	Ratio	Lower	Upper
112	100		
77	68.0	52.6	78.8
114	31.8	27.9	34.1

Manual Integrations
APPROVED

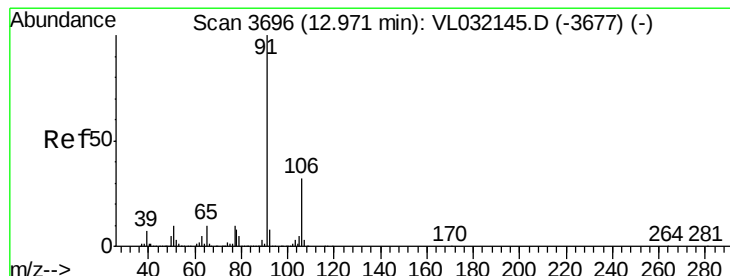
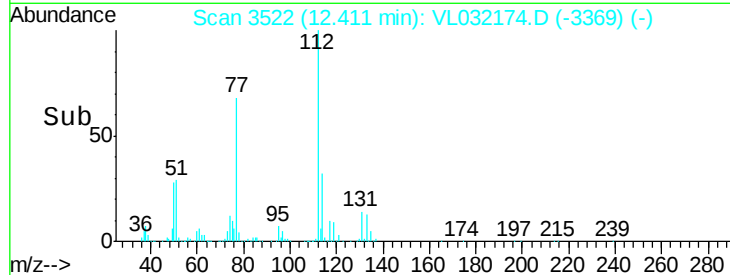
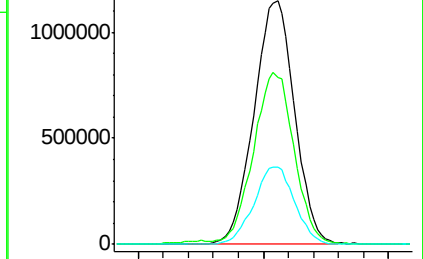
MMDadoda
7/2/2018 4:25:59 PM



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: 9.30 ppbv

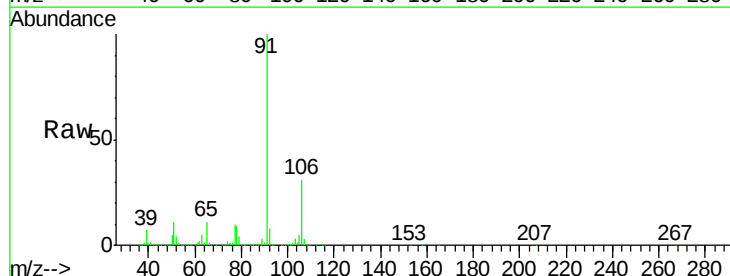
RT: 12.97 min Scan# 3696

Delta R.T. -0.01 min

Lab File: VL032174.D

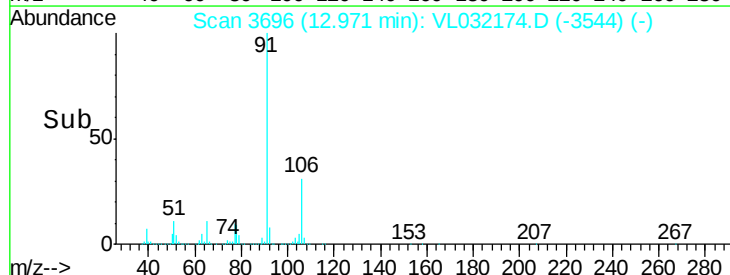
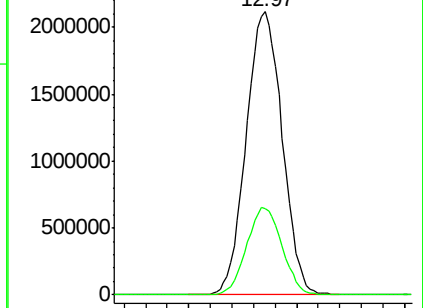
Acq: 30 Jun 2018 17:08

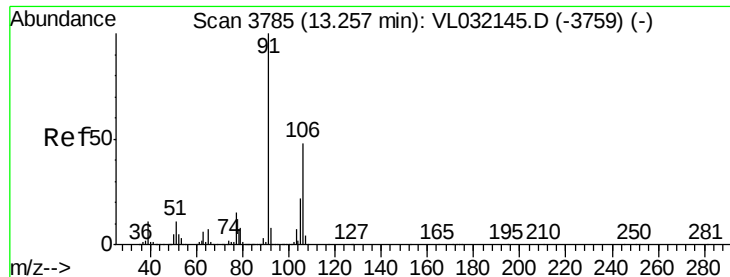
Tgt Ion:	91	Resp:	4914223
Ion	Ratio	Lower	Upper
91	100		
106	30.6	26.5	39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





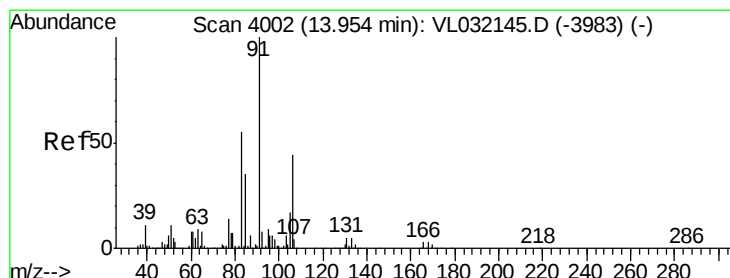
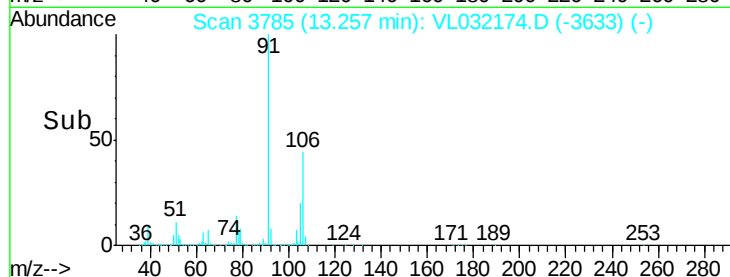
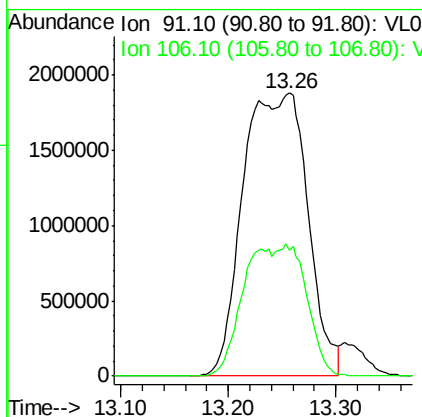
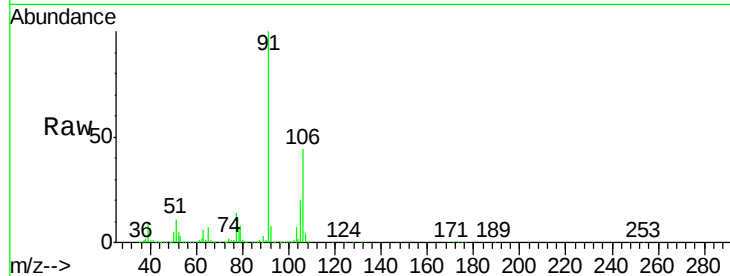
#59
m/p-Xylene
Concen: 18.44 ppbv m
RT: 13.26 min Scan# 3785
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7807507
Ion Ratio Lower Upper
91 100
106 45.1 38.6 58.0

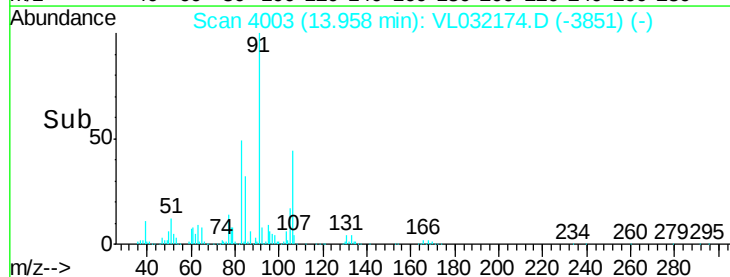
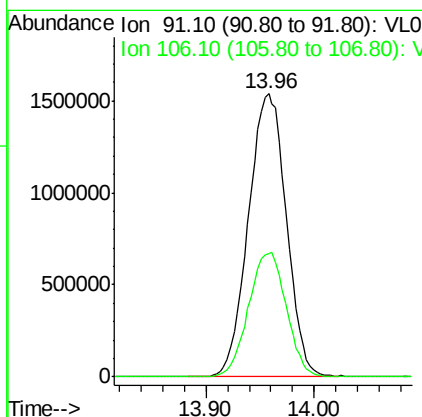
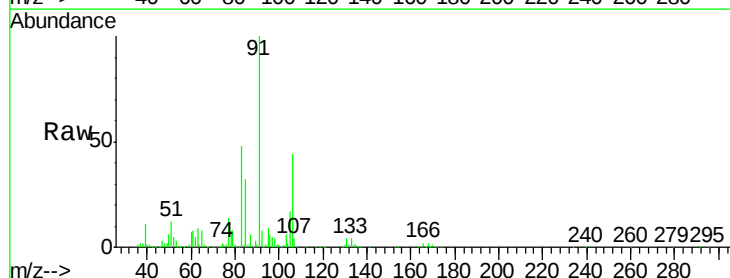
Manual Integrations
APPROVED

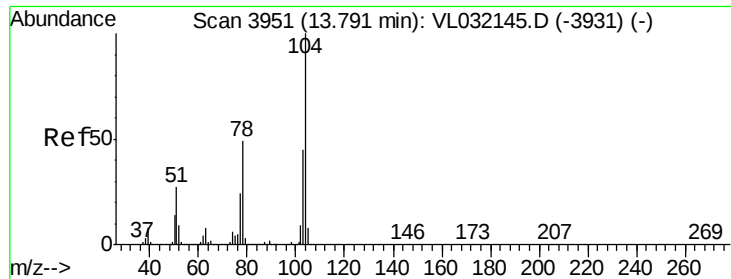
MMDadoda
7/2/2018 4:25:59 PM



#60
o-Xylene
Concen: 8.88 ppbv
RT: 13.96 min Scan# 4003
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion: 91 Resp: 3749615
Ion Ratio Lower Upper
91 100
106 43.8 23.3 69.8





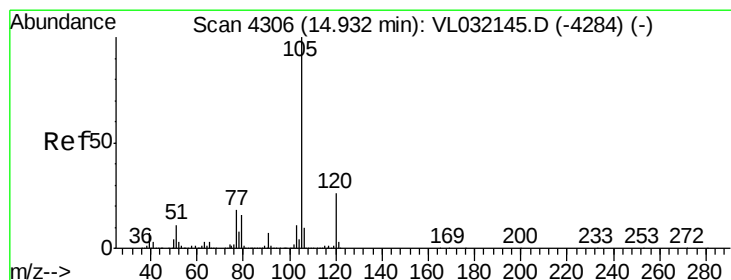
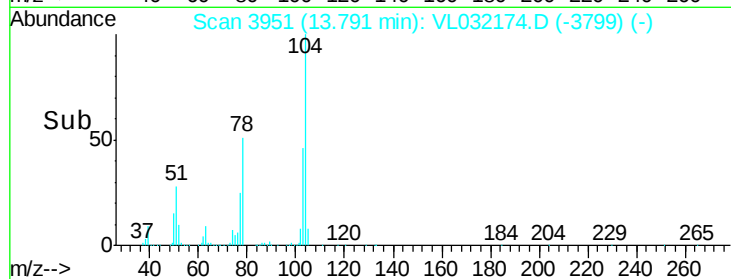
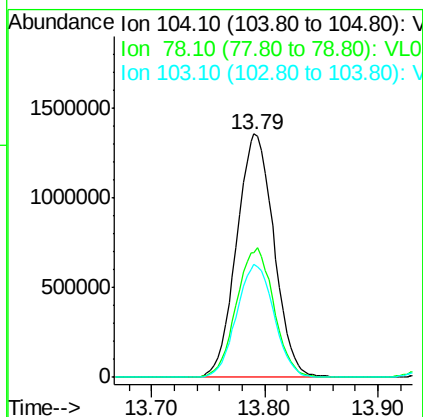
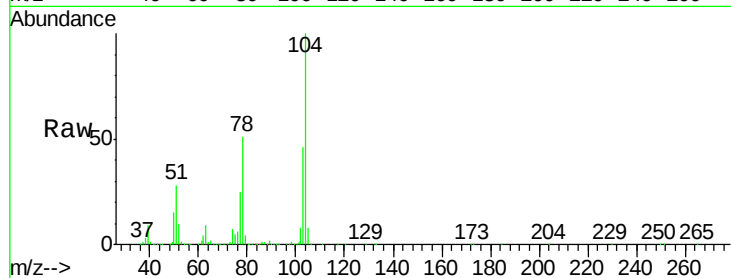
#61
Stvrene
Concen: 9.00 ppbv
RT: 13.79 min Scan# 3951
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.4	37.9	56.9
103	46.7	36.6	55.0

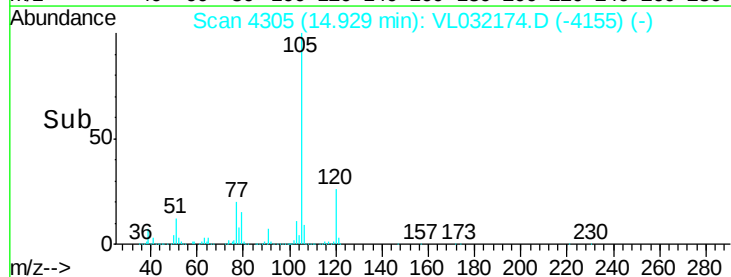
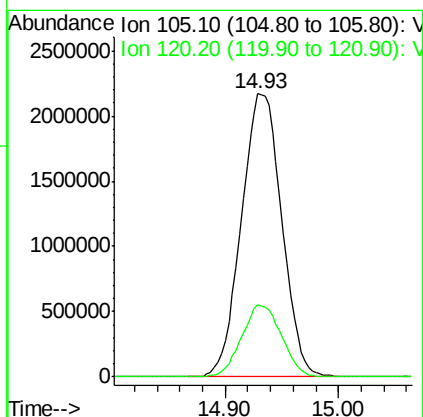
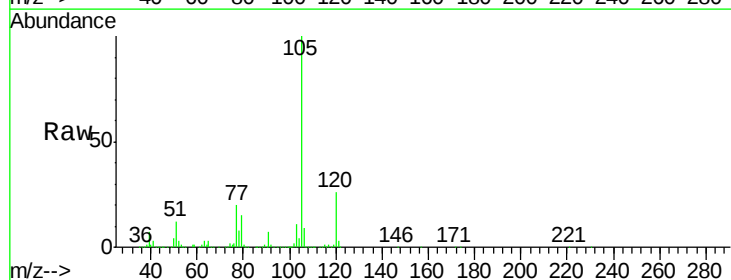
Manual Integrations
APPROVED

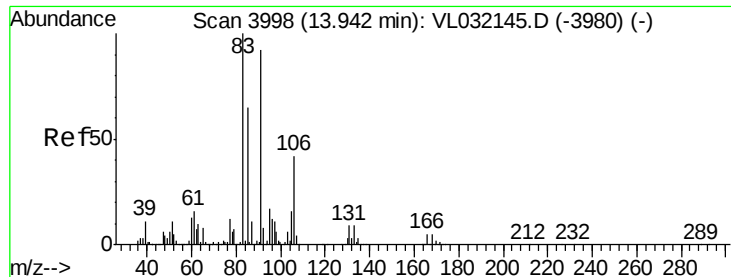
MMDadoda
7/2/2018 4:25:59 PM



#62
Isopropylbenzene
Concen: 8.28 ppbv
RT: 14.93 min Scan# 4305
Delta R.T. -0.02 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	21.0	31.4





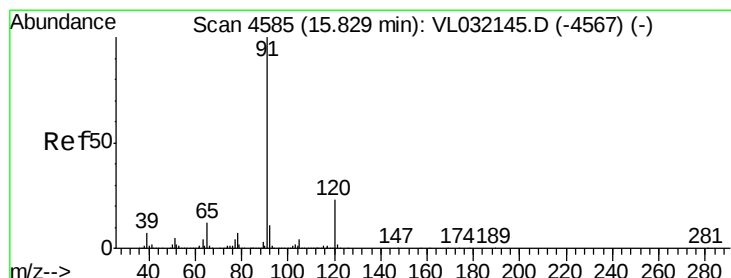
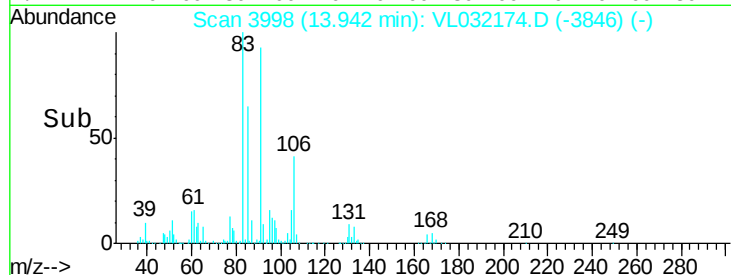
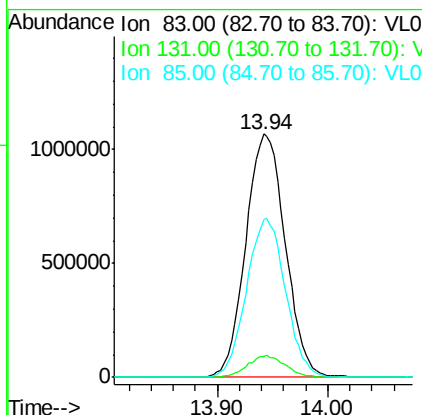
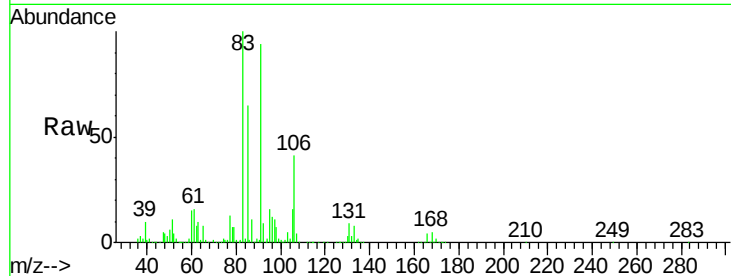
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.13 ppbv
 RT: 13.94 min Scan# 3998
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2657789
Ion Ratio	Lower	Upper	
83	100		
131	8.6	4.6	13.8
85	64.6	32.4	97.2

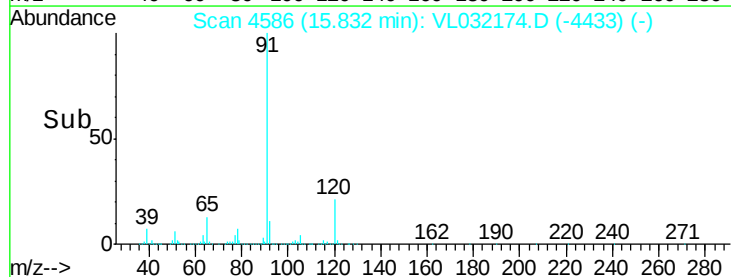
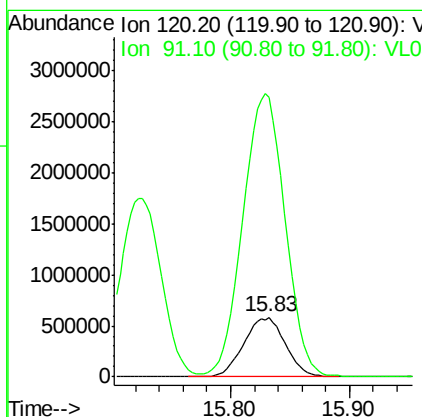
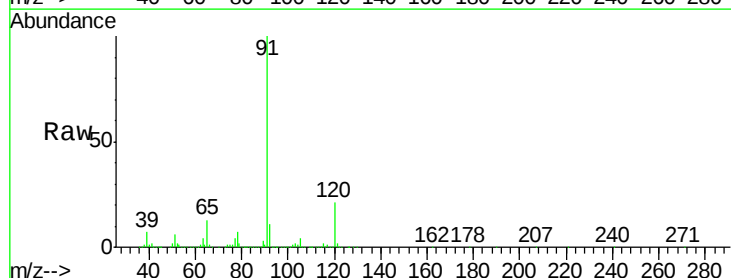
Manual Integrations
 APPROVED

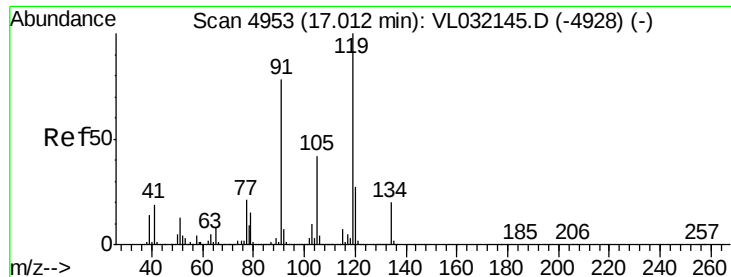
MMDadoda
 7/2/2018 4:25:59 PM



#64
 n-propylbenzene
 Concen: 8.36 ppbv
 RT: 15.83 min Scan# 4586
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion	120	Resp	1405246
Ion Ratio	Lower	Upper	
120	100		
91	485.1	357.4	536.0





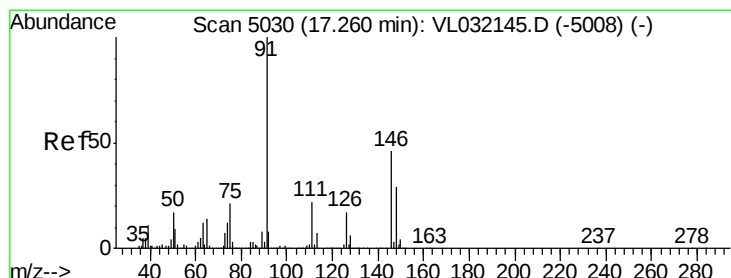
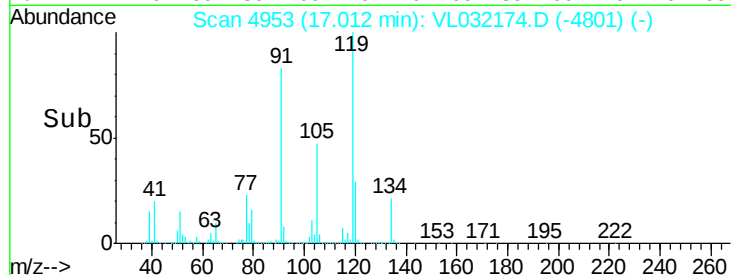
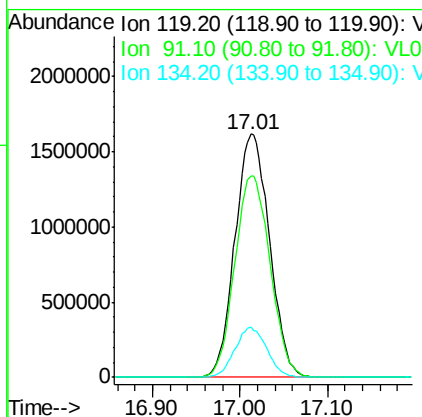
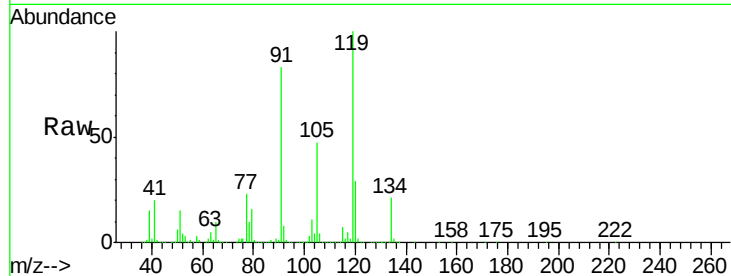
#65
tert-Butylbenzene
Concen: 7.77 ppbv
RT: 17.01 min Scan# 4953
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 119 Resp: 4433432
Ion Ratio Lower Upper
119 100
91 84.7 62.2 93.2
134 19.1 16.2 24.2

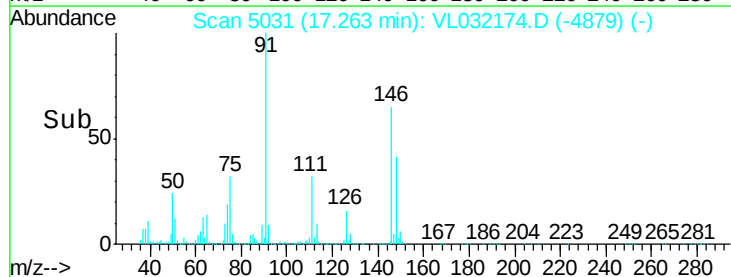
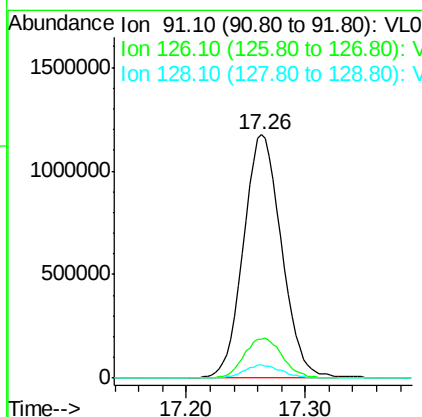
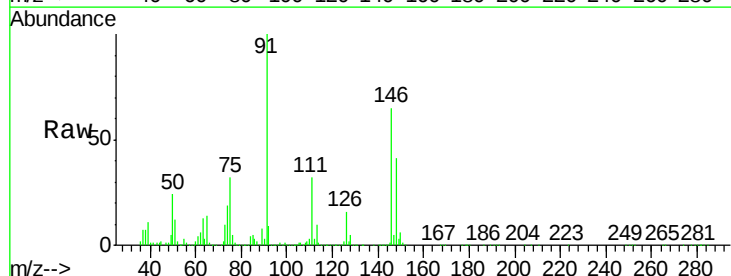
Manual Integrations
APPROVED

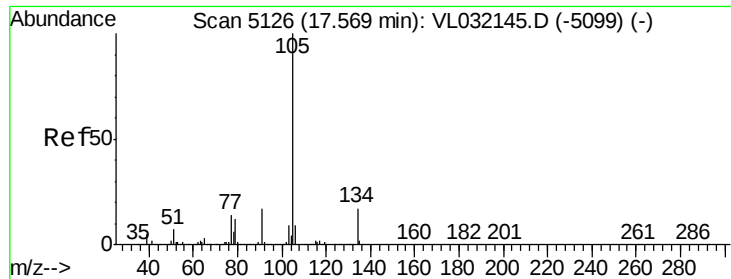
MMDadoda
7/2/2018 4:25:59 PM



#66
Benzyl Chloride
Concen: 7.36 ppbv
RT: 17.26 min Scan# 5031
Delta R.T. -0.01 min
Lab File: VL032174.D
Acq: 30 Jun 2018 17:08

Tgt Ion: 91 Resp: 2592630
Ion Ratio Lower Upper
91 100
126 16.7 15.7 23.5
128 5.3 5.2 7.8





#67

sec-Butylbenzene

Concen: 8.01 ppbv

RT: 17.57 min Scan# 5125

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6692950

Ion Ratio Lower Upper

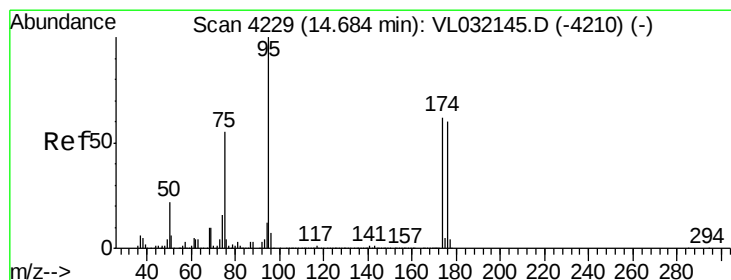
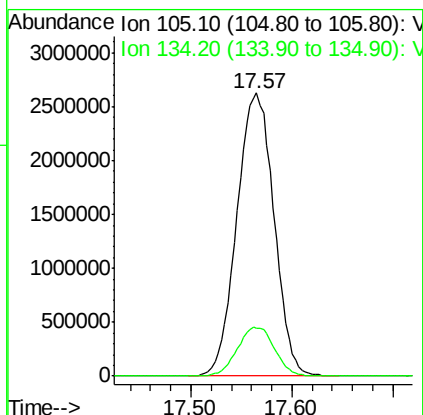
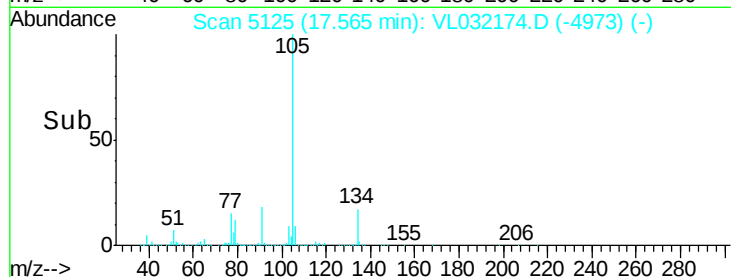
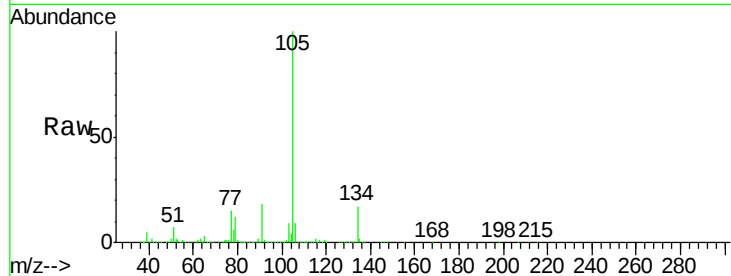
105 100

134 17.4 14.7 22.1

Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:25:59 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.32 ppbv

RT: 14.68 min Scan# 4229

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

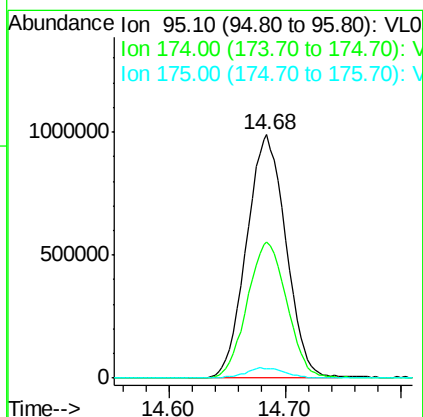
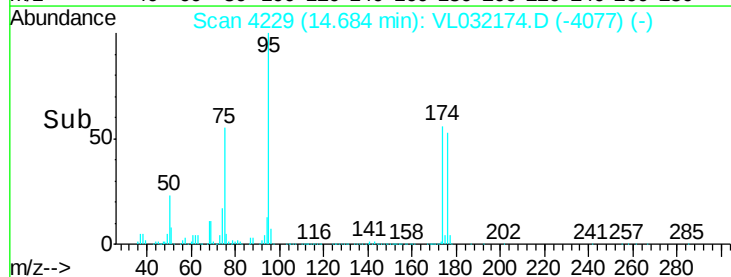
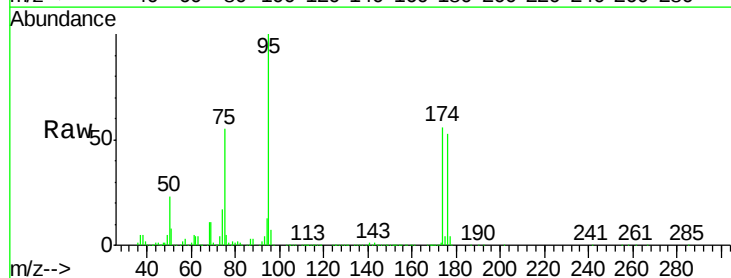
Tgt Ion: 95 Resp: 2334884

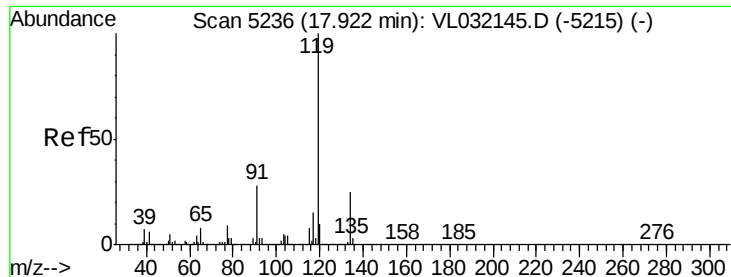
Ion Ratio Lower Upper

95 100

174 56.7 52.1 78.1

175 4.2 4.0 6.0





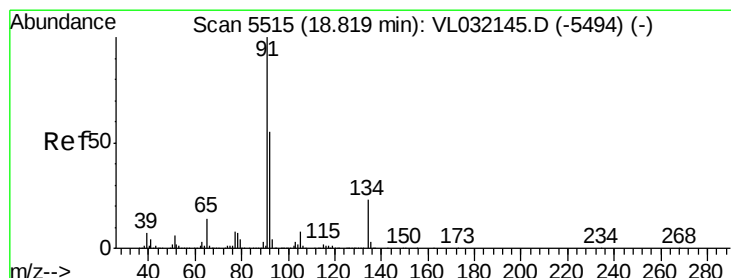
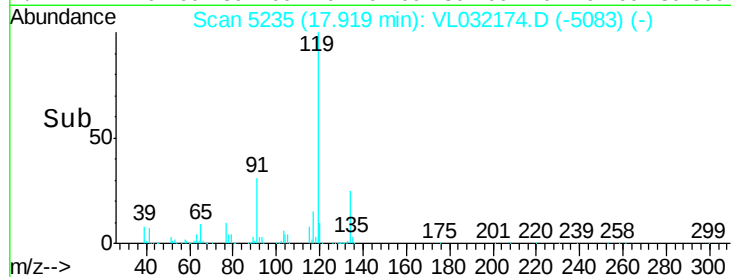
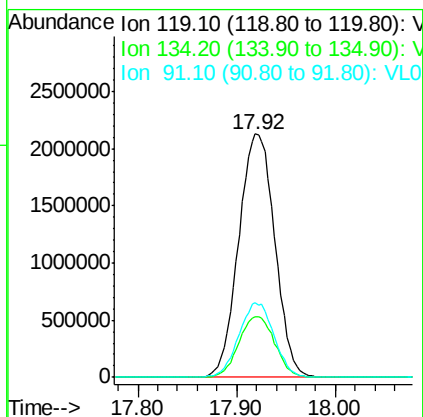
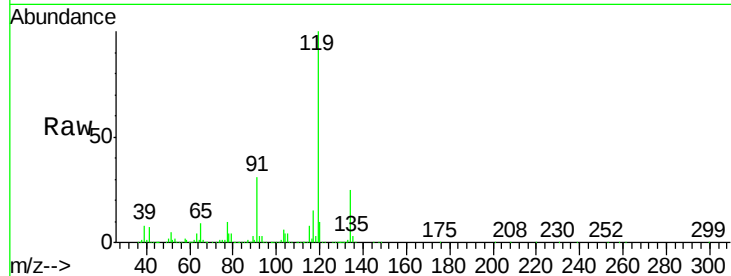
#69
 p-Isopropyltoluene
 Concen: 8.05 ppbv
 RT: 17.92 min Scan# 5235
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.7	31.1
91	29.8	21.8	32.8

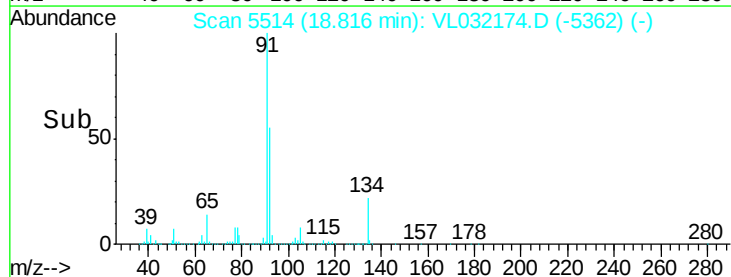
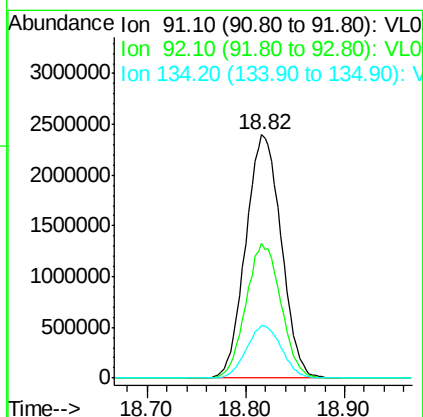
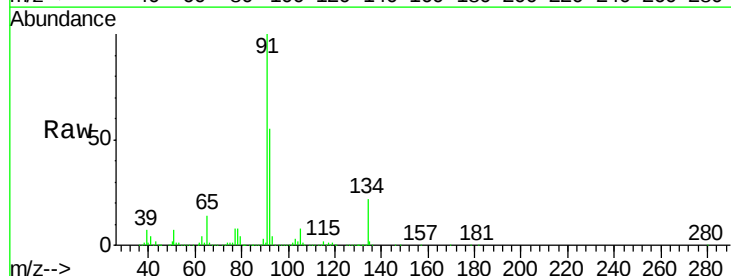
Manual Integrations
 APPROVED

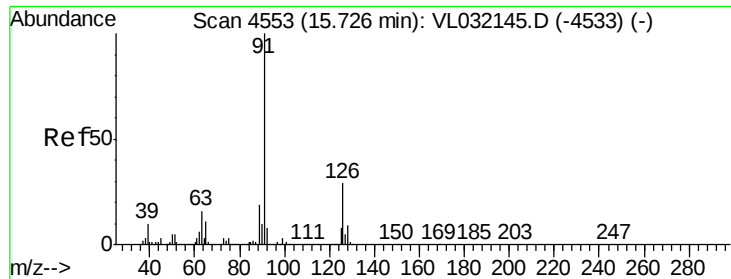
MMDadoda
 7/2/2018 4:25:59 PM



#70
 n-Butylbenzene
 Concen: 8.50 ppbv
 RT: 18.82 min Scan# 5514
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.7	65.5
134	21.4	18.9	28.3





#71

2-Chlorotoluene

Concen: 8.62 ppbv

RT: 15.73 min Scan# 4553

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4310836

Ion Ratio Lower Upper

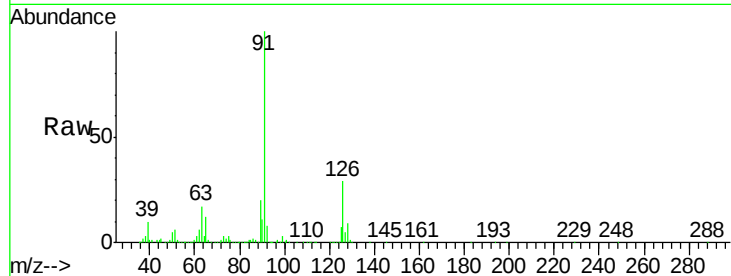
91 100

126 28.8 12.8 51.0

Manual Integrations
APPROVED

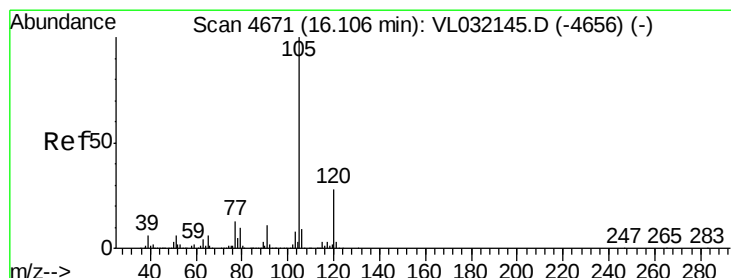
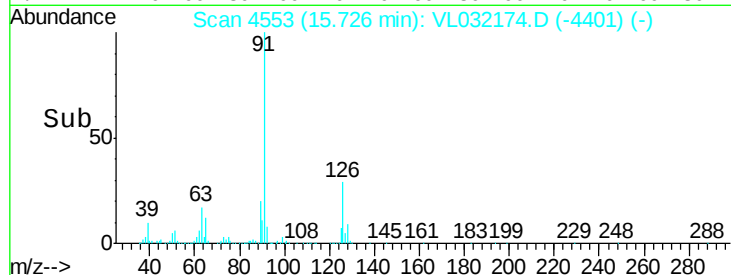
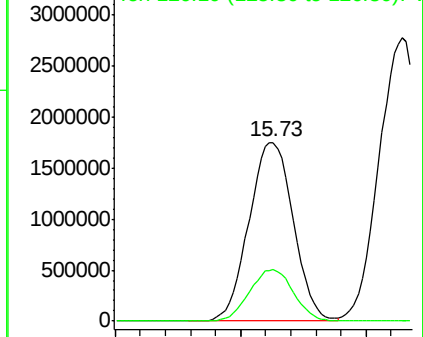
MMDadoda

7/2/2018 4:25:59 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.51 ppbv

RT: 16.11 min Scan# 4671

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Tgt Ion:105 Resp: 4643118

Ion Ratio Lower Upper

105 100

120 28.8 24.3 36.5

91 12.6 9.4 14.0

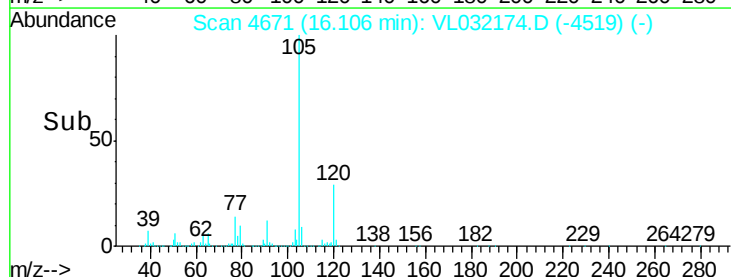
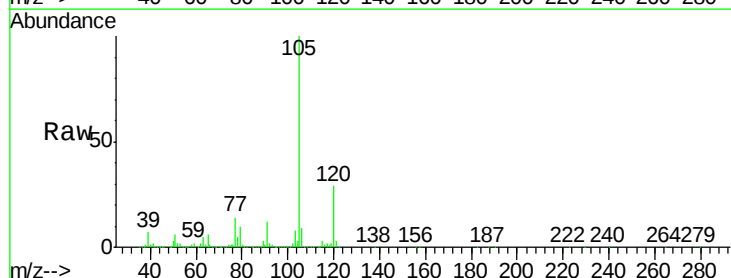
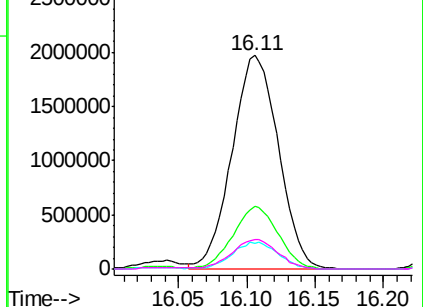
77 13.8 10.2 15.2

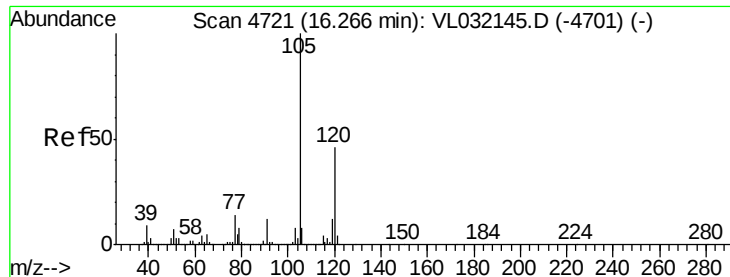
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





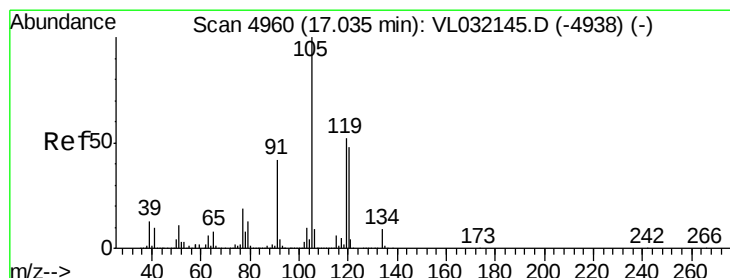
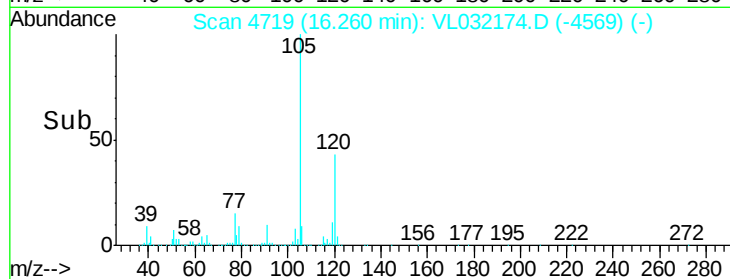
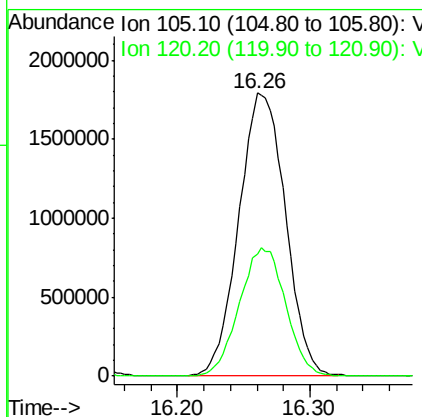
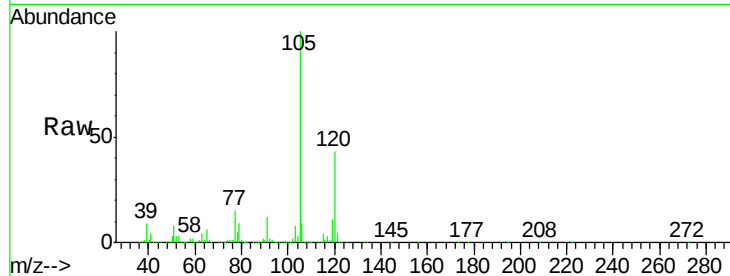
#73
 1,3,5-Trimethylbenzene
 Concen: 8.50 ppbv
 RT: 16.26 min Scan# 4719
 Delta R.T. -0.02 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 4367233
 Ion Ratio Lower Upper
 105 100
 120 42.9 38.6 57.8

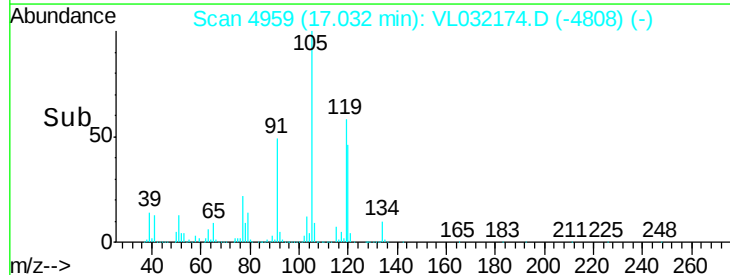
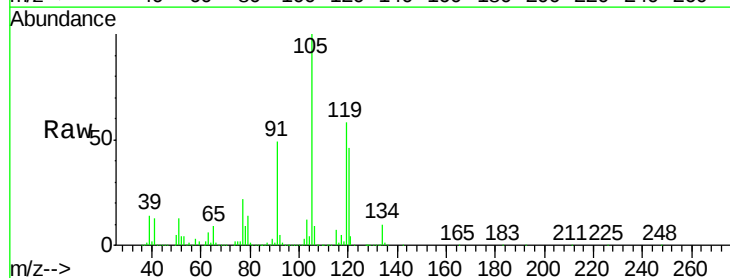
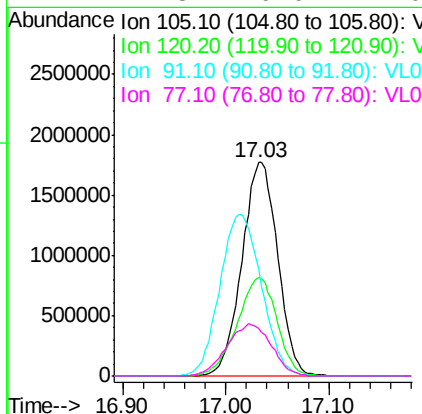
Manual Integrations
 APPROVED

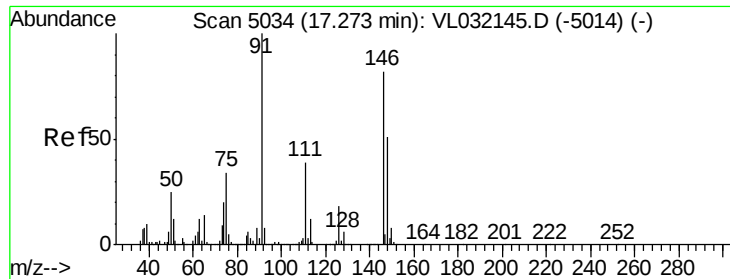
MMDadoda
 7/2/2018 4:25:59 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.23 ppbv
 RT: 17.03 min Scan# 4959
 Delta R.T. -0.02 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Tgt Ion:105 Resp: 4265842
 Ion Ratio Lower Upper
 105 100
 120 46.2 38.8 58.2
 91 49.3 33.6 50.4
 77 22.3 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 7.94 ppbv

RT: 17.28 min Scan# 5035

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2342511

Ion Ratio Lower Upper

146 100

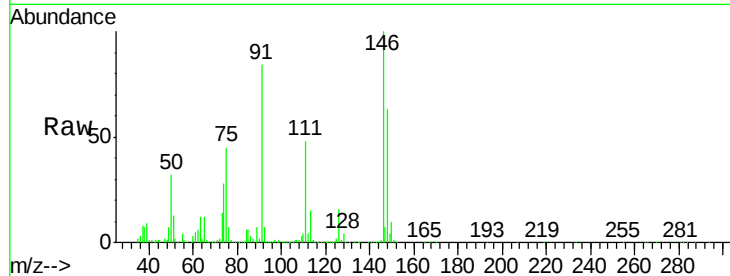
111 49.6 22.9 68.8

148 63.6 31.7 95.1

Manual Integrations
APPROVED

MMDadoda

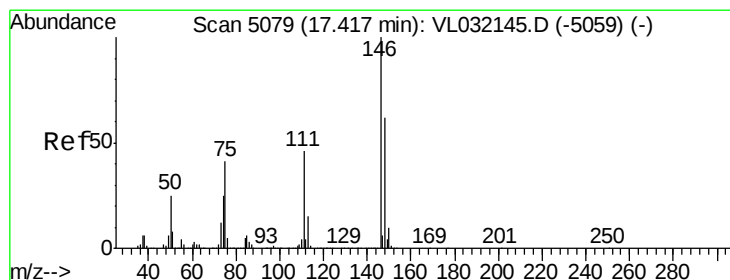
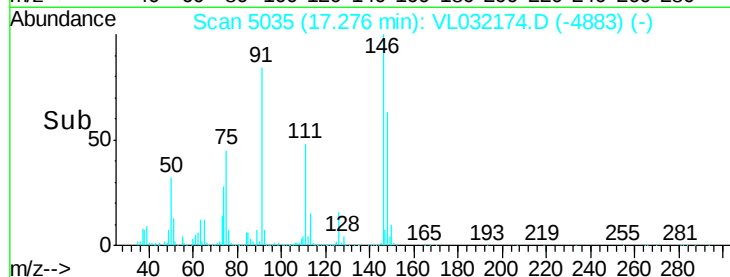
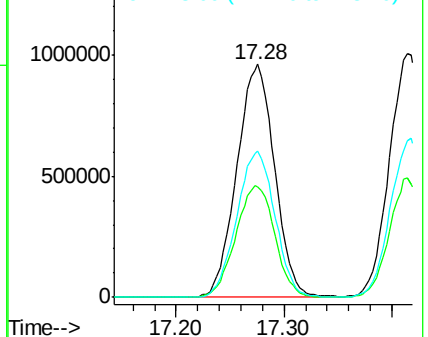
7/2/2018 4:25:59 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.06 ppbv

RT: 17.41 min Scan# 5078

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

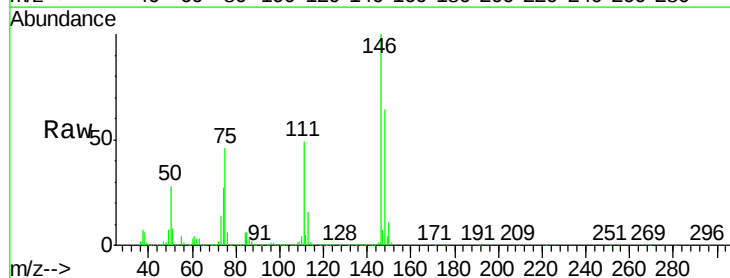
Tgt Ion:146 Resp: 2411593

Ion Ratio Lower Upper

146 100

111 48.6 21.9 65.8

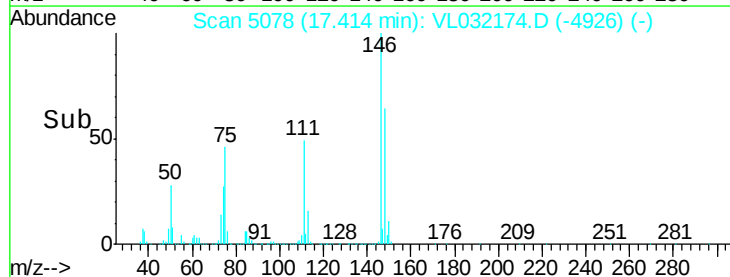
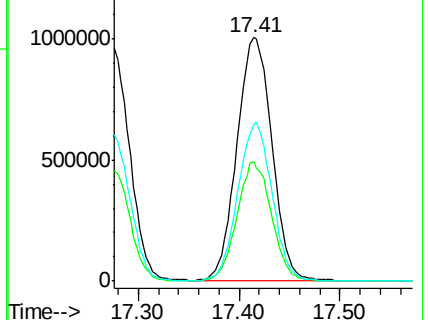
148 64.0 32.1 96.5

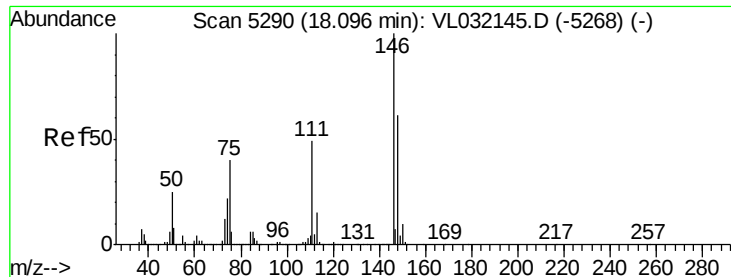


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.01 ppbv

RT: 18.09 min Scan# 5289

Delta R.T. -0.02 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2361952

Ion Ratio Lower Upper

146 100

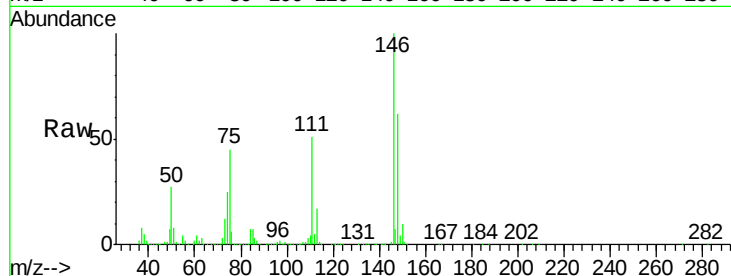
111 51.1 23.4 70.3

148 63.8 32.0 96.0

Manual Integrations
APPROVED

MMDadoda

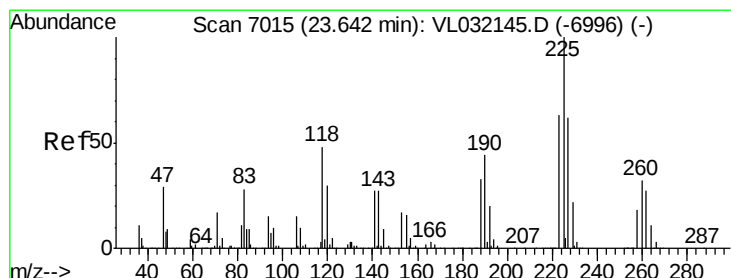
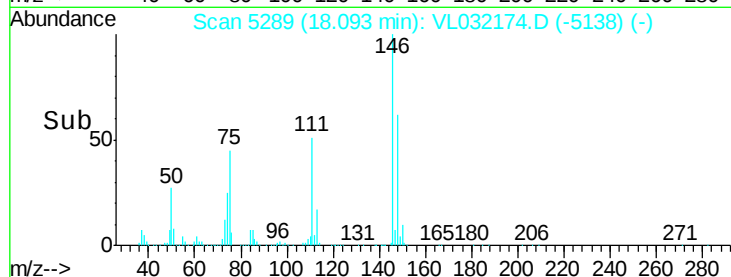
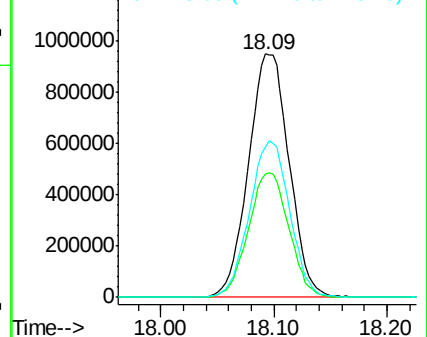
7/2/2018 4:25:59 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 14.16 ppbv

RT: 23.64 min Scan# 7015

Delta R.T. -0.02 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

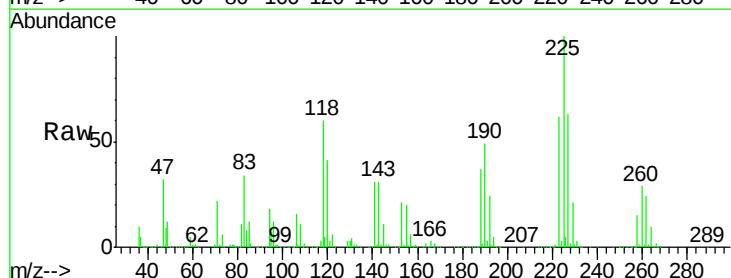
Tgt Ion:225 Resp: 1453572

Ion Ratio Lower Upper

225 100

223 63.9 51.0 76.4

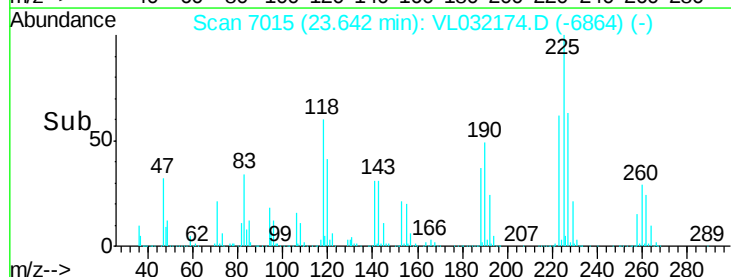
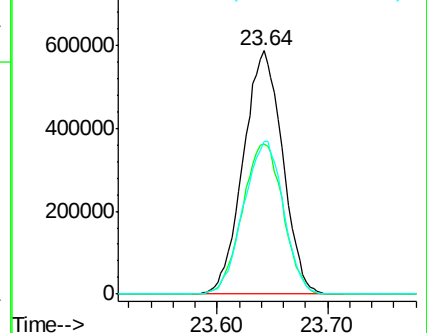
227 63.5 51.4 77.0

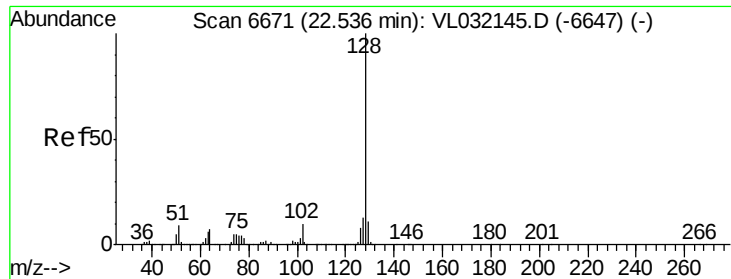


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.36 ppbv

RT: 22.53 min Scan# 6670

Delta R.T. -0.02 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 4410643

Ion Ratio Lower Upper

128 100

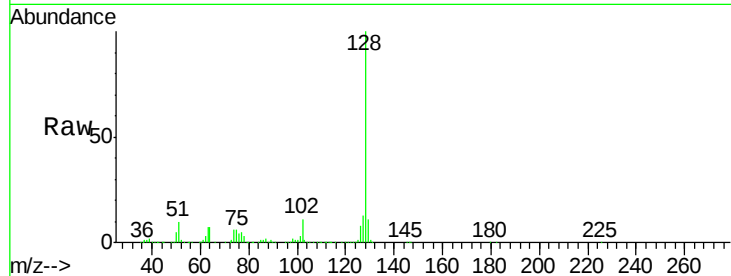
127 13.1 10.5 15.7

129 11.0 9.0 13.6

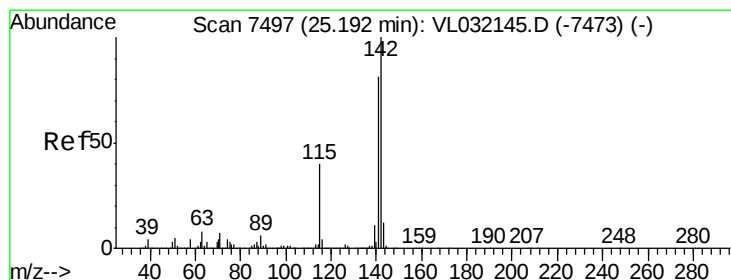
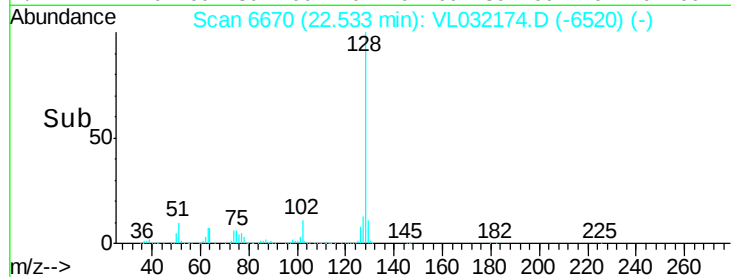
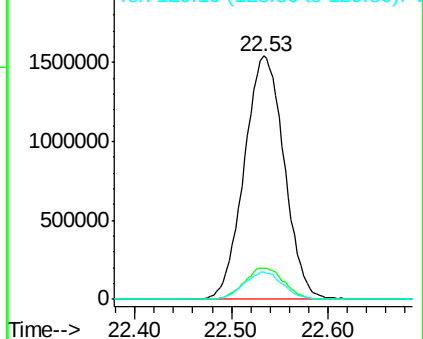
Manual Integrations
APPROVED

MMDadoda

7/2/2018 4:25:59 PM



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 12.46 ppbv

RT: 25.19 min Scan# 7497

Delta R.T. -0.01 min

Lab File: VL032174.D

Acq: 30 Jun 2018 17:08

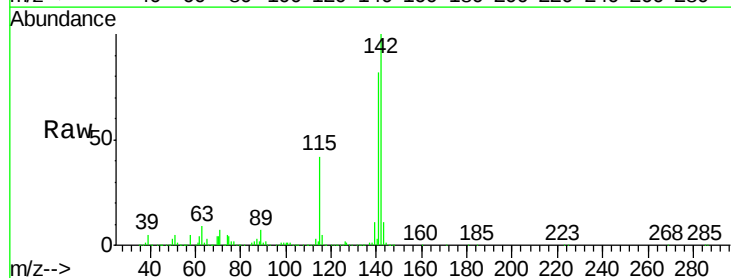
Tgt Ion:142 Resp: 2119704

Ion Ratio Lower Upper

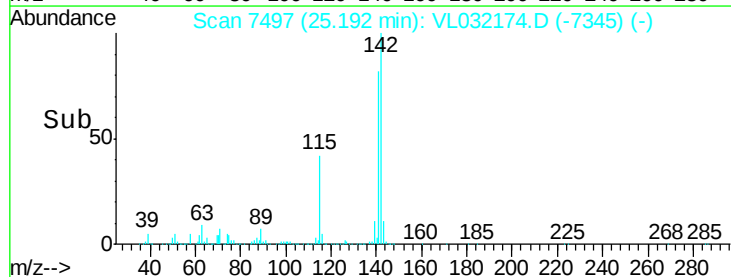
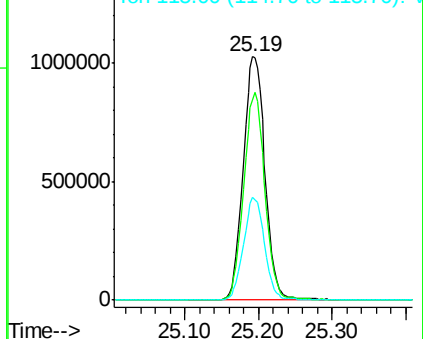
142 100

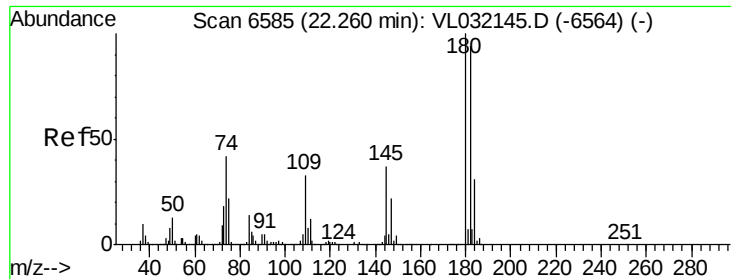
141 83.7 65.8 98.6

115 41.0 29.4 44.0



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.15 ppbv
 RT: 22.26 min Scan# 6585
 Delta R.T. -0.01 min
 Lab File: VL032174.D
 Acq: 30 Jun 2018 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.2	114.4
184	30.4	24.4	36.6

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:25:59 PM

