

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032440.D
 Acq On : 31 Aug 2018 14:02
 Operator : SY/AP
 Sample : VL0831ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Manual Integrations
 APPROVED

apatel
 9/4/2018 8:25:54 AM

Quant Time: Sep 01 02:15:06 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1997195	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	4018422	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	4247617m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	3070083	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.11	85	2602447	10.187	ppbv	99
3) Chlorodifluoromethane	3.04	51	1656625	9.163	ppbv	100
4) Chloromethane	3.20	50	1022479	9.340	ppbv	99
5) Vinyl Chloride	3.32	62	980251	9.072	ppbv	97
6) Bromomethane	3.55	94	551020	9.715	ppbv	99
7) Chloroethane	3.63	64	363440	9.718	ppbv	97
8) Dichlorotetrafluoroethane	3.25	85	2098078	9.253	ppbv	99
9) Propene	3.06	41	745771	10.226	ppbv	98
10) Heptane	8.30	43	2479672	9.478	ppbv	99
11) Trichlorofluoromethane	4.04	101	2074139	9.004	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1432443	9.177	ppbv	99
13) Ethanol	3.68	45	175428	7.717	ppbv	95
14) Bromoethene	3.82	108	641258	9.696	ppbv	99
15) Acetone	3.94	43	1576264	8.764	ppbv	100
16) 1,3-Butadiene	3.40	39	782995	9.252	ppbv	98
17) tert-Butyl alcohol	4.40	59	221749	8.012	ppbv #	100
18) 1,1-Dichloroethene	4.39	96	684870	9.600	ppbv	96
19) Isopropyl Alcohol	4.06	45	1149857	9.746	ppbv	99
20) Methylene Chloride	4.45	84	609637	8.890	ppbv	97
21) Allyl Chloride	4.52	41	1190074	9.963	ppbv	100
22) trans-1,2-Dichloroethene	5.00	96	665624	8.599	ppbv	99
23) Vinyl Acetate	5.20	43	2784497	9.340	ppbv	99
24) 1,1-Dichloroethane	5.13	63	2047906	8.337	ppbv	99
25) Ethyl Acetate	5.81	43	4006482	9.433	ppbv	100
26) Hexane	5.82	57	1868008	9.822	ppbv	99
27) Carbon Disulfide	4.66	76	1821816	10.378	ppbv	99
28) Methyl tert-Butyl Ether	5.15	73	2101339	8.999	ppbv	99
29) Chloroform	5.89	83	2748951	9.480	ppbv	99
30) Cyclohexane	7.30	84	1436437	10.315	ppbv	100
31) cis-1,2-Dichloroethene	5.68	61	1660268	9.641	ppbv	99
32) 1,1,1-Trichloroethane	6.67	97	2508726	9.282	ppbv	99
34) 2-Butanone	5.37	43	2675450	10.024	ppbv	100
35) Carbon Tetrachloride	7.18	117	2567831	9.507	ppbv	99
36) Benzene	7.06	78	3597254	10.519	ppbv	98
37) 1,2-Dichloroethane	6.46	62	2021628	9.647	ppbv	100
38) Trichloroethene	8.01	130	1266603	9.750	ppbv	99
39) 1,2-Dichloropropane	7.79	63	1449214	9.905	ppbv	99
40) 1,4-Dioxane	8.01	88	470030	10.708	ppbv	87
41) Tetrahydrofuran	6.20	42	1555217	10.703	ppbv	99
42) Bromodichloromethane	7.97	83	2831196	9.795	ppbv	97
43) Methyl Methacrylate	8.19	69	1497984	10.325	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032440.D
 Acq On : 31 Aug 2018 14:02
 Operator : SY/AP
 Sample : VL0831ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Manual Integrations
 APPROVED

apatel
 9/4/2018 8:25:54 AM

Quant Time: Sep 01 02:15:06 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M

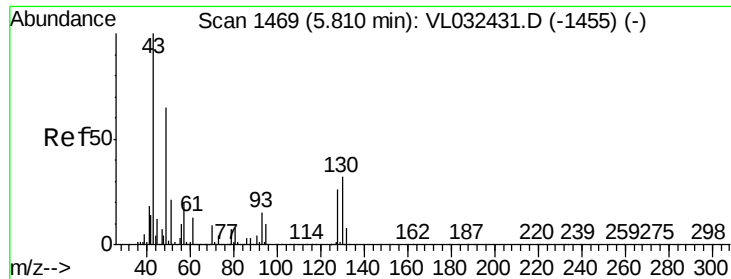
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.04	57	6384820	9.657	ppbv	99
45) t-1,3-Dichloropropene	9.47	75	1963436	12.648	ppbv	97
46) cis-1,3-Dichloropropene	8.89	75	2391249	12.054	ppbv	99
47) 1,1,2-Trichloroethane	9.67	97	1580812	10.162	ppbv	97
48) Dibromochloromethane	10.51	129	2272147	10.546	ppbv	99
49) Bromoform	13.26	173	1984937	10.600	ppbv	100
50) 4-Methyl-2-Pentanone	8.92	43	4199164	10.444	ppbv	100
51) 2-Hexanone	10.32	43	3347643	12.926	ppbv #	100
52) Tetrachloroethene	11.43	164	1160173	10.941	ppbv	99
53) Toluene	10.00	91	4221470	11.810	ppbv	99
54) 1,2-Dibromoethane	10.82	107	2084686	9.981	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.34	131	1657508	8.655	ppbv #	61
57) Chlorobenzene	12.36	112	2968508	8.744	ppbv	99
58) Ethyl Benzene	12.92	91	5385637	10.595	ppbv	98
59) m/p-Xylene	13.21	91	8816131m	19.454	ppbv	
60) o-Xylene	13.91	91	4363917	9.803	ppbv	99
61) Styrene	13.74	104	3299036	11.448	ppbv	100
62) Isopropylbenzene	14.88	105	6096545	9.742	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.89	83	3391535	8.521	ppbv	100
64) n-propylbenzene	15.78	120	1598294	9.770	ppbv	98
65) tert-Butylbenzene	16.96	119	5124355	9.503	ppbv	100
66) Benzyl Chloride	17.21	91	3314528	11.034	ppbv	100
67) sec-Butylbenzene	17.51	105	7674169	9.463	ppbv	100
69) p-Isopropyltoluene	17.87	119	6130390	9.754	ppbv	100
70) n-Butylbenzene	18.77	91	6790066	9.531	ppbv	99
71) 2-Chlorotoluene	15.67	91	4809165	10.059	ppbv	99
72) 4-Ethyltoluene	16.05	105	5109214	10.513	ppbv	100
73) 1,3,5-Trimethylbenzene	16.21	105	4836512	9.933	ppbv	98
74) 1,2,4-Trimethylbenzene	16.98	105	4856303	9.123	ppbv #	92
75) 1,3-Dichlorobenzene	17.22	146	2772466	8.778	ppbv	99
76) 1,4-Dichlorobenzene	17.36	146	2798656	9.549	ppbv	100
77) 1,2-Dichlorobenzene	18.04	146	2782353	9.130	ppbv	99
78) Hexachloro-1,3-Butadiene	23.59	225	1666751	14.638	ppbv	100
79) Naphthalene	22.47	128	4714524	10.891	ppbv	99
80) Naphthalene,2-methyl-	25.15	142	1798626	15.616	ppbv	99
81) 1,2,4-Trichlorobenzene	22.20	180	2225493	10.208	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1468

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

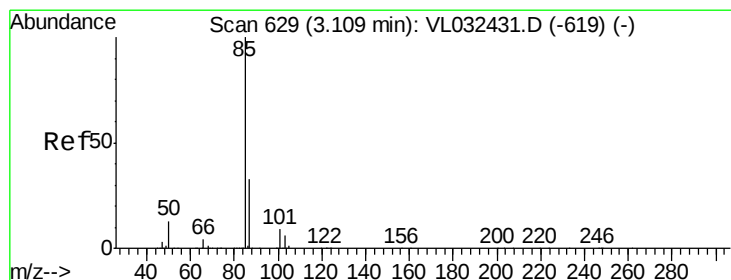
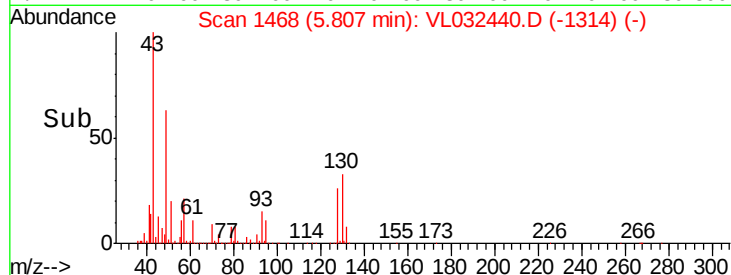
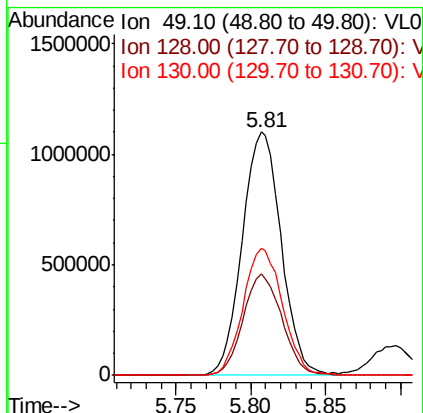
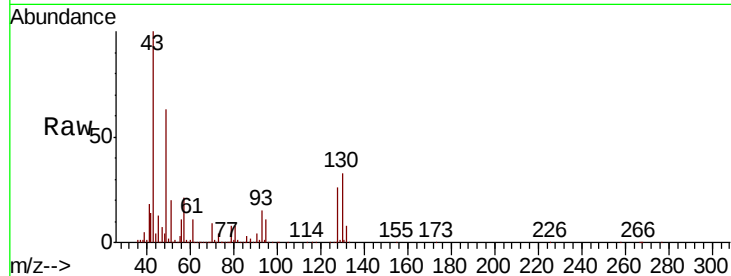
ClientSampleId :

VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
49	100		
128	41.9	20.7	62.1
130	53.0	26.6	79.7

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:54 AM



#2

Dichlorodifluoromethane

Concen: 10.187 ppbv

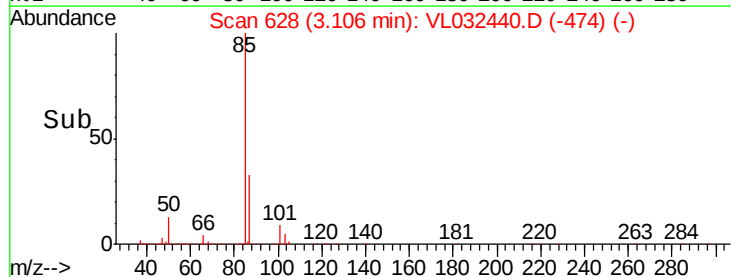
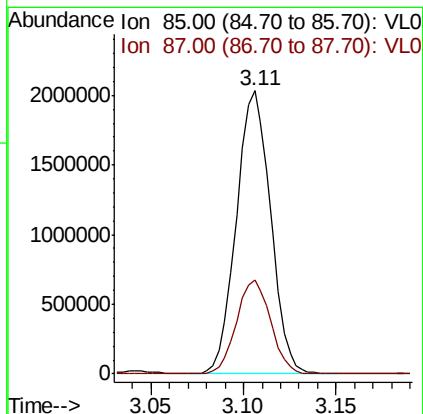
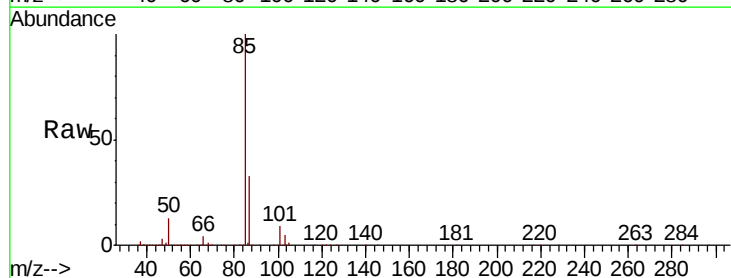
RT: 3.11 min Scan# 628

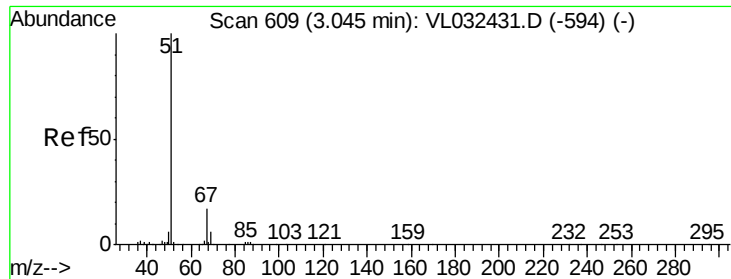
Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.2	39.4





#3

Chlorodifluoromethane

Concen: 9.163 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 51 Resp: 1656625

Ion Ratio Lower Upper

51 100

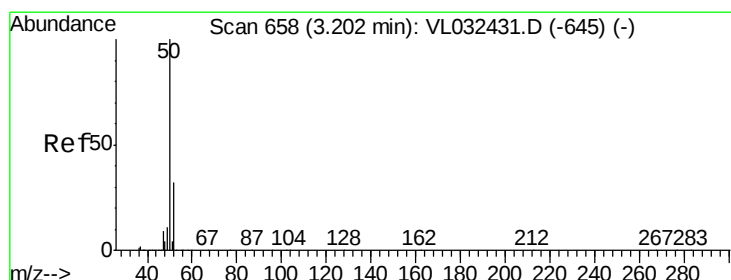
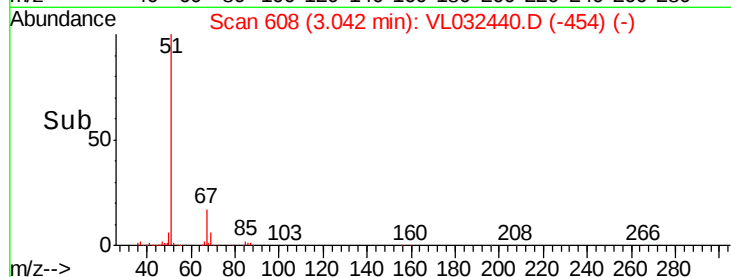
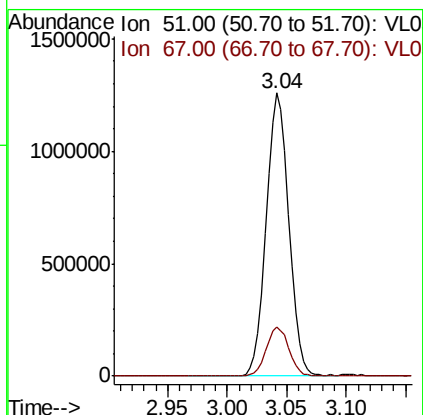
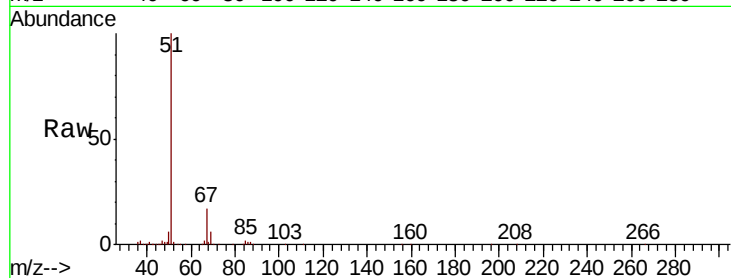
67 17.5 13.8 20.8

Manual Integrations

APPROVED

apatel

9/4/2018 8:25:54 AM



#4

Chloromethane

Concen: 9.340 ppbv

RT: 3.20 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL032440.D

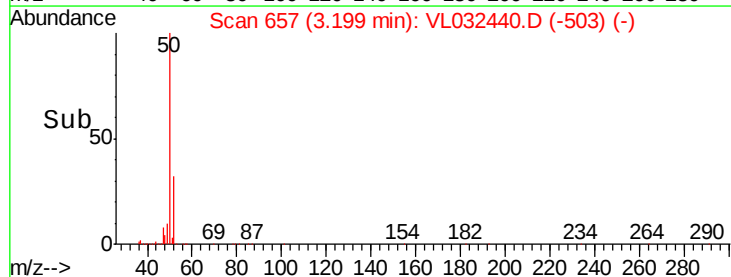
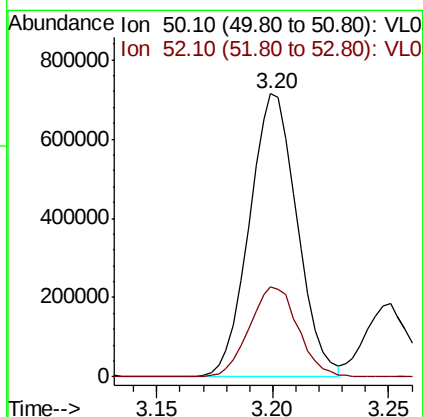
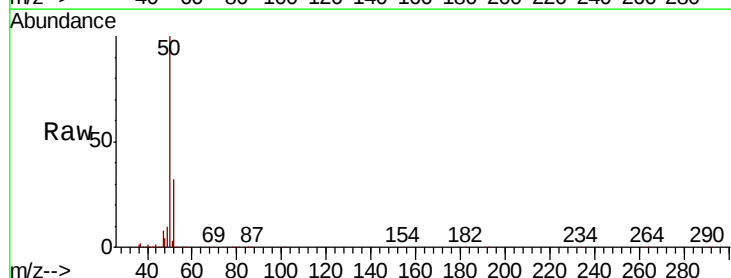
Acq: 31 Aug 2018 14:02

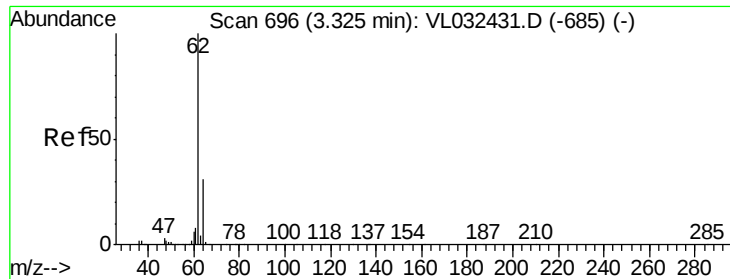
Tgt Ion: 50 Resp: 1022479

Ion Ratio Lower Upper

50 100

52 31.7 25.6 38.4





#5

Vinyl Chloride

Concen: 9.072 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 62 Resp: 980251

Ion Ratio Lower Upper

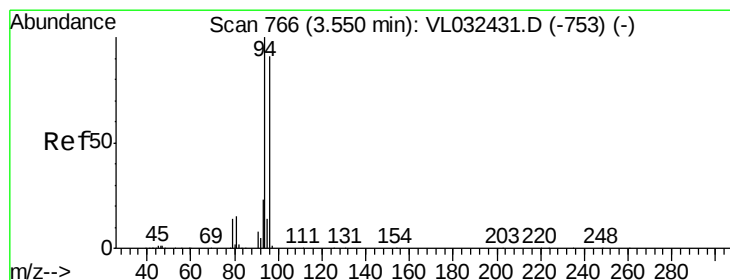
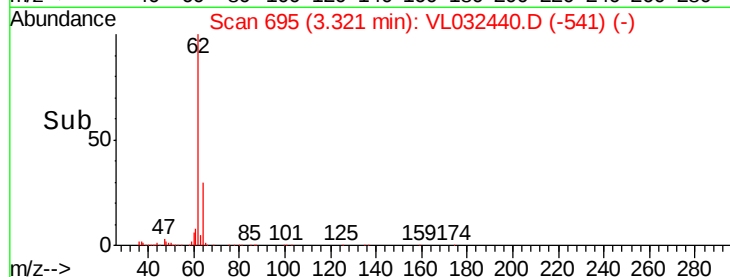
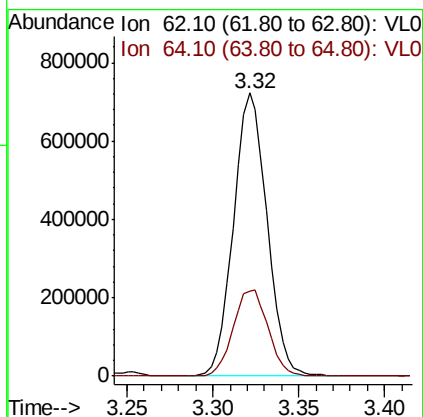
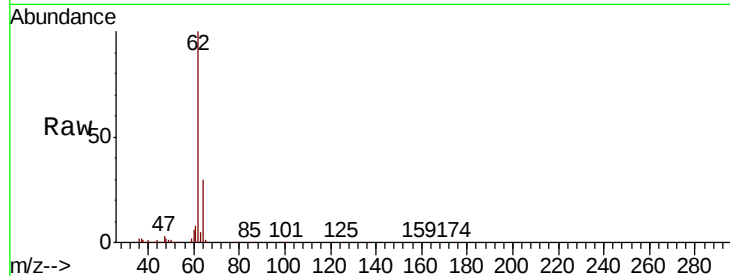
62 100

64 29.8 25.0 37.6

Manual Integrations
APPROVED

apatel

9/4/2018 8:25:54 AM



#6

Bromomethane

Concen: 9.715 ppbv

RT: 3.55 min Scan# 765

Delta R.T. -0.00 min

Lab File: VL032440.D

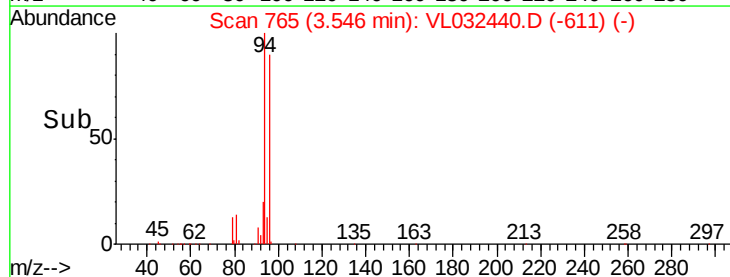
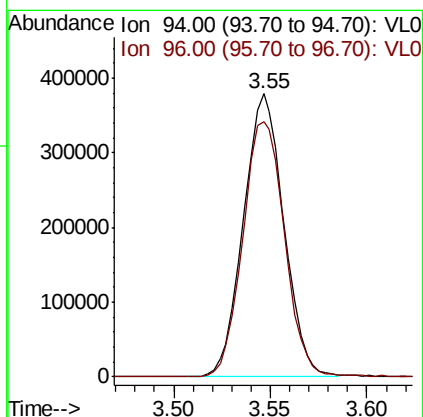
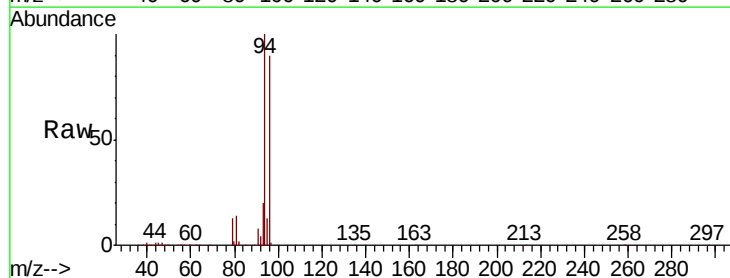
Acq: 31 Aug 2018 14:02

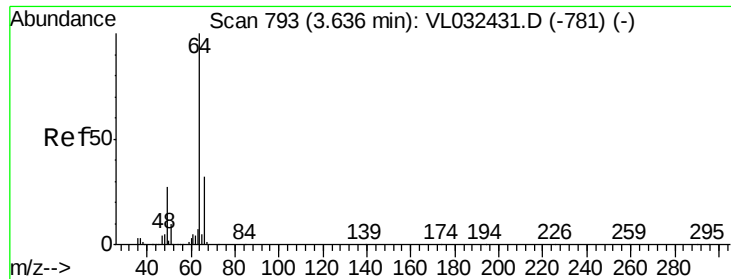
Tgt Ion: 94 Resp: 551020

Ion Ratio Lower Upper

94 100

96 90.4 72.8 109.2





#7

Chloroethane

Concen: 9.718 ppbv

RT: 3.63 min Scan# 792

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 64 Resp: 363440

Ion Ratio Lower Upper

64 100

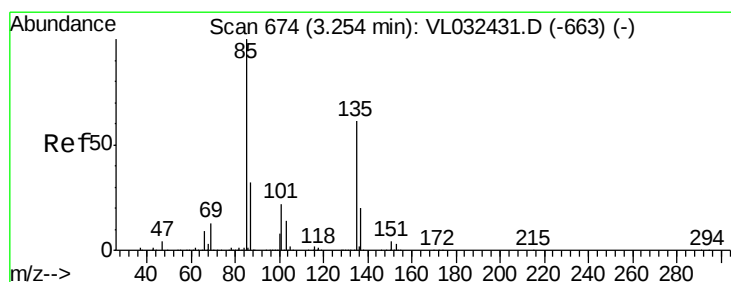
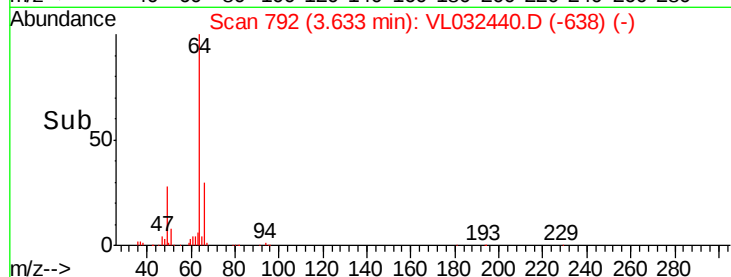
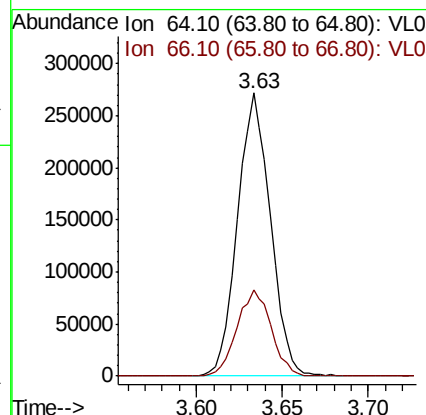
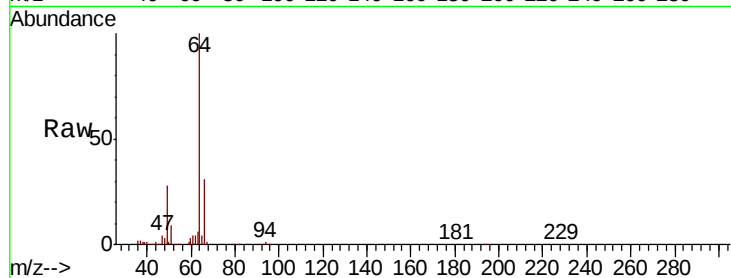
66 30.6 25.8 38.6

Manual Integrations

APPROVED

apatel

9/4/2018 8:25:54 AM



#8

Dichlorotetrafluoroethane

Concen: 9.253 ppbv

RT: 3.25 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032440.D

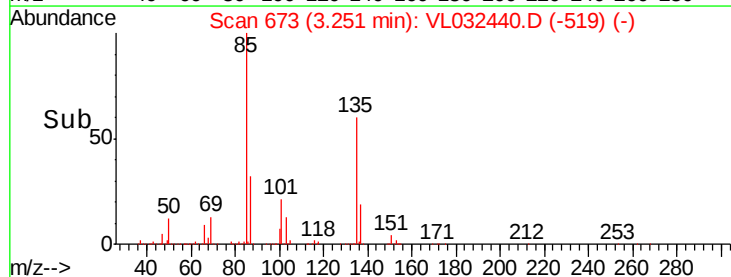
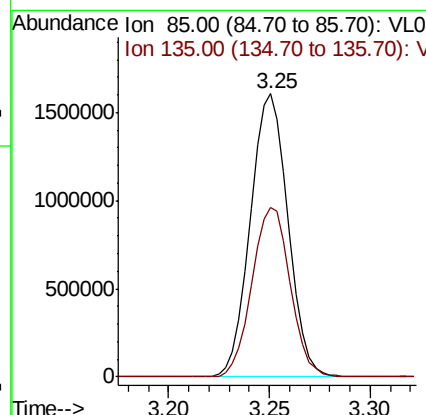
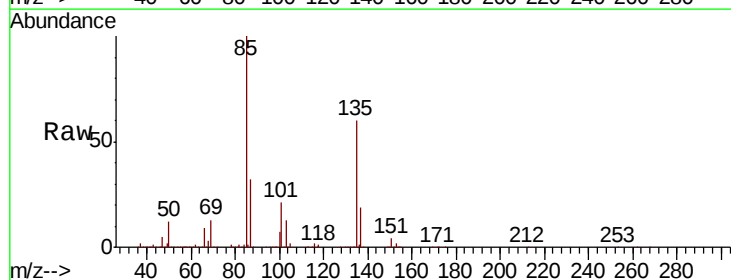
Acq: 31 Aug 2018 14:02

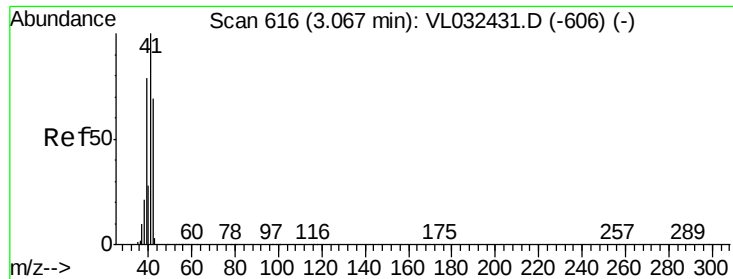
Tgt Ion: 85 Resp: 2098078

Ion Ratio Lower Upper

85 100

135 61.3 48.6 72.8





#9

Propene

Concen: 10.226 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 41 Resp: 745771

Ion Ratio Lower Upper

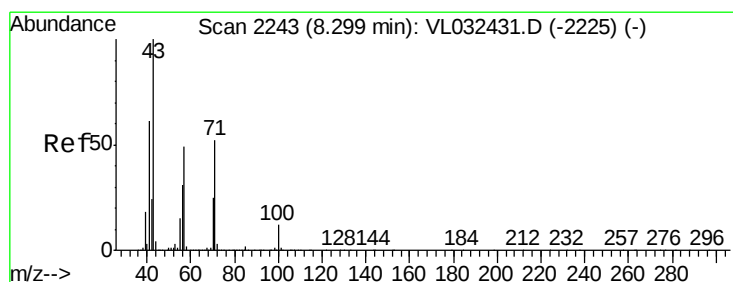
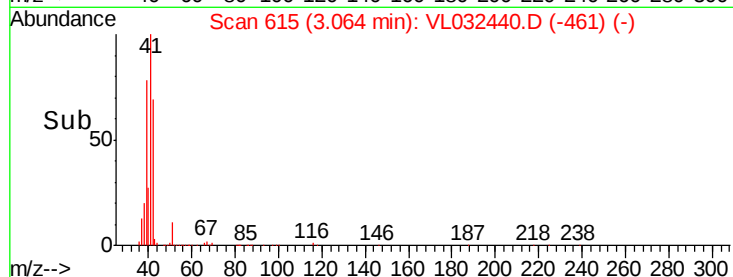
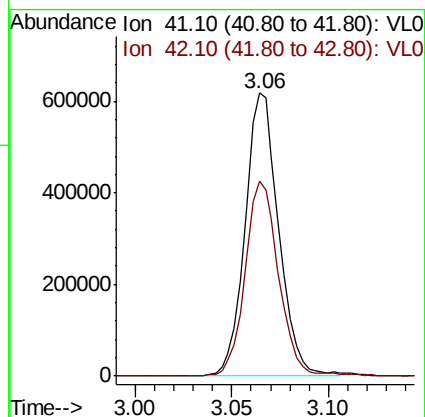
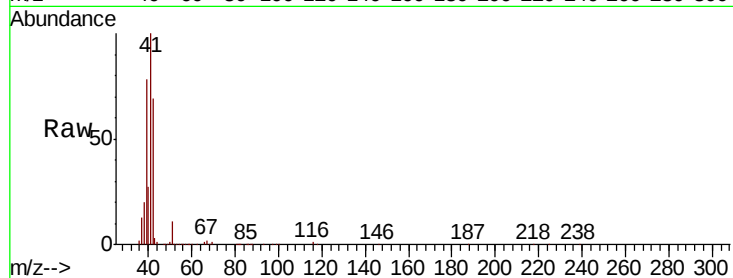
41 100

42 69.4 56.6 84.8

Manual Integrations
APPROVED

apatel

9/4/2018 8:25:54 AM



#10

Heptane

Concen: 9.478 ppbv

RT: 8.30 min Scan# 2242

Delta R.T. -0.00 min

Lab File: VL032440.D

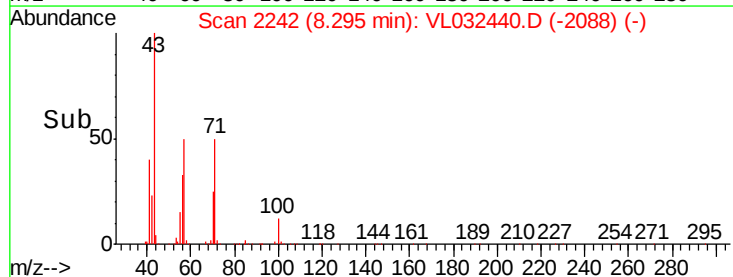
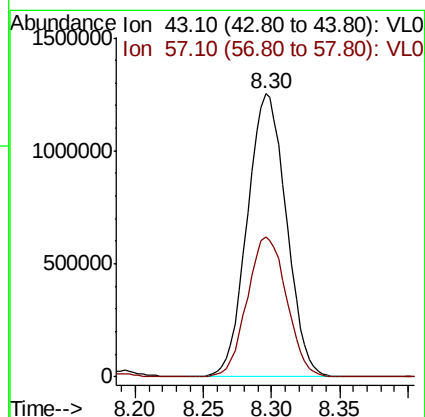
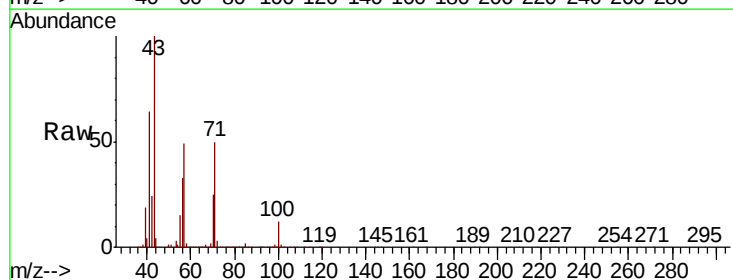
Acq: 31 Aug 2018 14:02

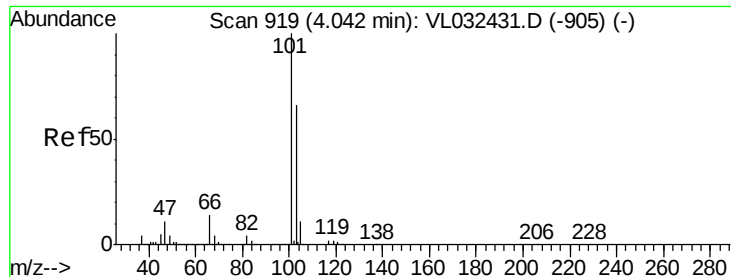
Tgt Ion: 43 Resp: 2479672

Ion Ratio Lower Upper

43 100

57 50.1 39.6 59.4





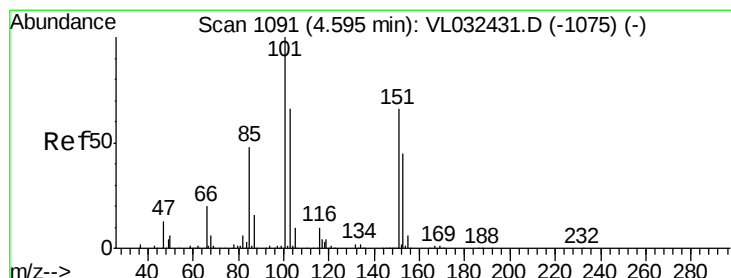
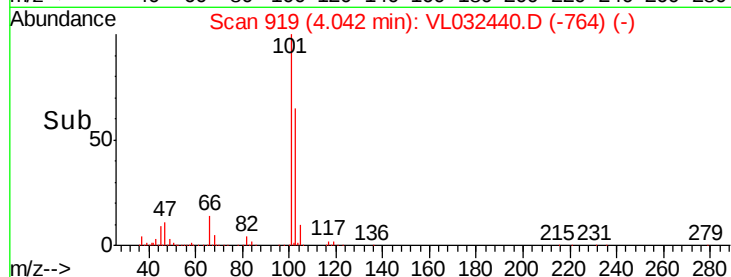
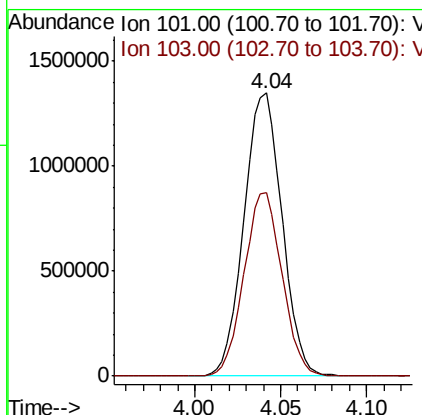
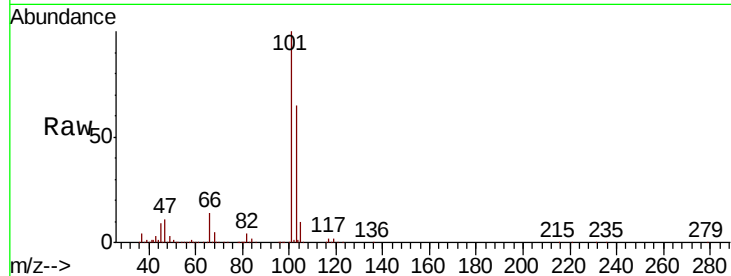
#11
 Trichlorofluoromethane
 Concen: 9.004 ppbv
 RT: 4.04 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion:101 Resp: 2074139
 Ion Ratio Lower Upper
 101 100
 103 65.0 52.8 79.2

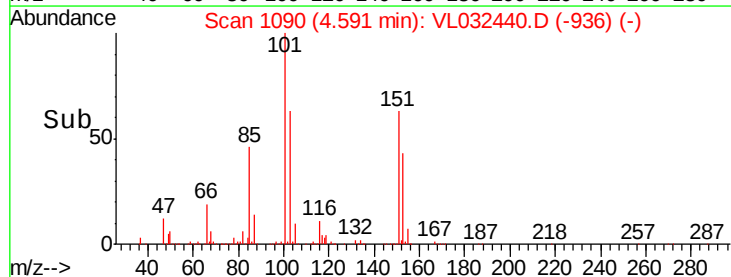
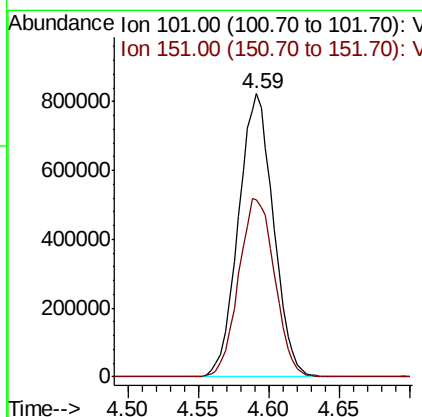
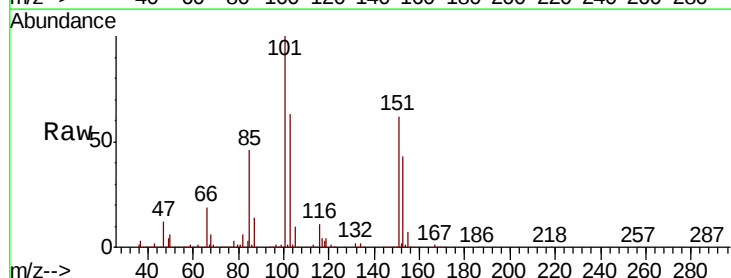
Manual Integrations
 APPROVED

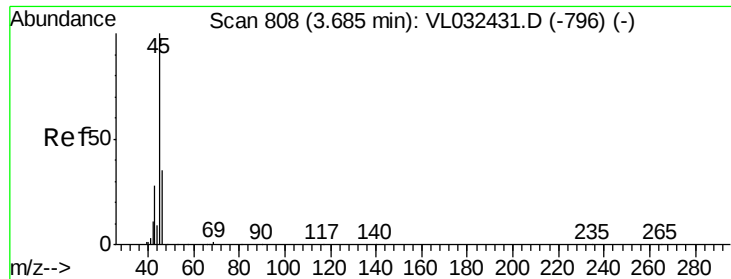
apatel
 9/4/2018 8:25:54 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.177 ppbv
 RT: 4.59 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion:101 Resp: 1432443
 Ion Ratio Lower Upper
 101 100
 151 65.1 52.6 78.8





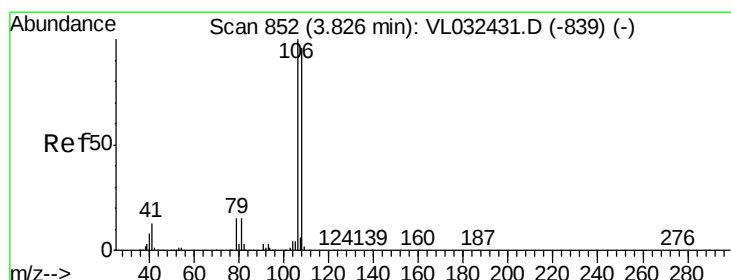
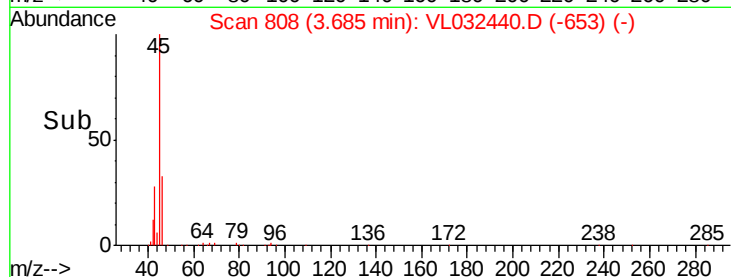
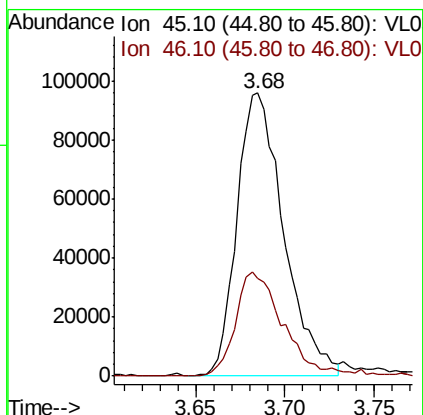
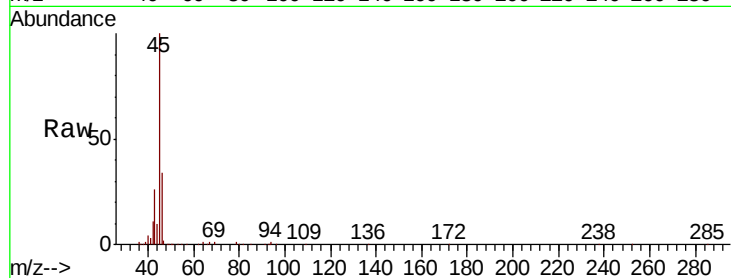
#13
Ethanol
Concen: 7.717 ppbv
RT: 3.68 min Scan# 808
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.3	14.2	56.8

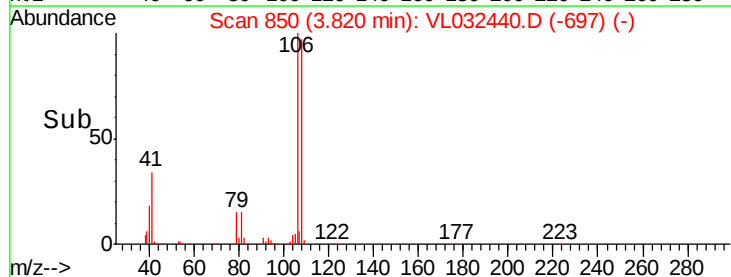
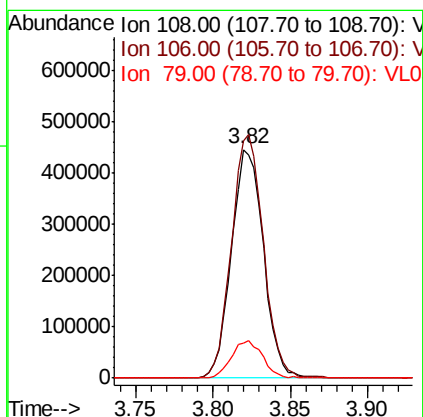
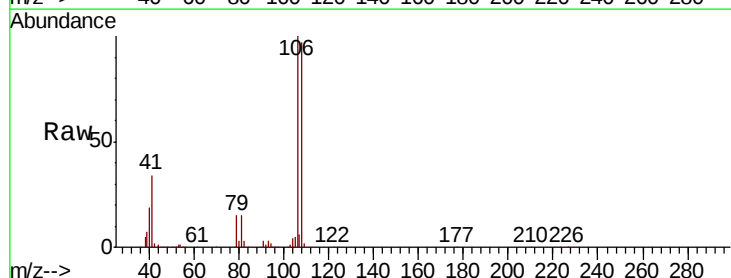
Manual Integrations
APPROVED

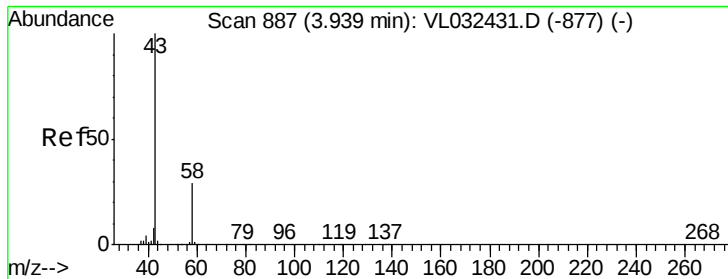
apatel
9/4/2018 8:25:54 AM



#14
Bromoethene
Concen: 9.696 ppbv
RT: 3.82 min Scan# 850
Delta R.T. -0.01 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.2	85.5	128.3
79	16.4	13.0	19.6





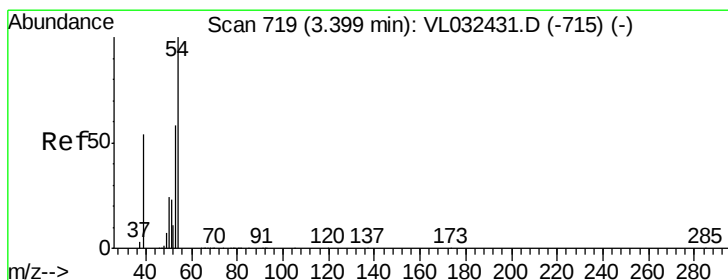
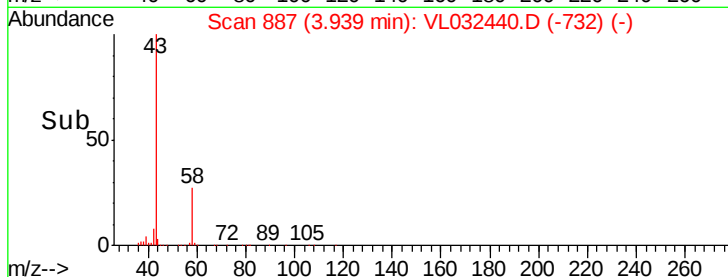
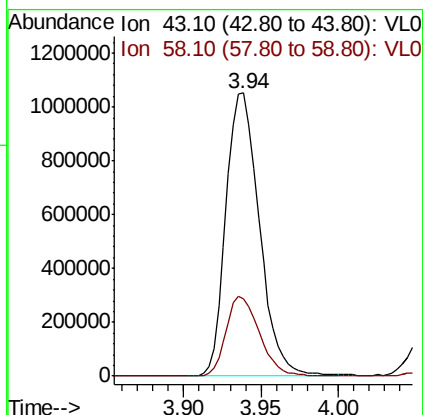
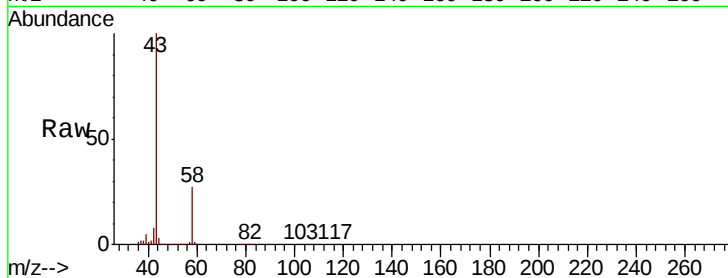
#15
Acetone
Concen: 8.764 ppbv
RT: 3.94 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion: 43 Resp: 1576264
Ion Ratio Lower Upper
43 100
58 28.2 22.6 33.8

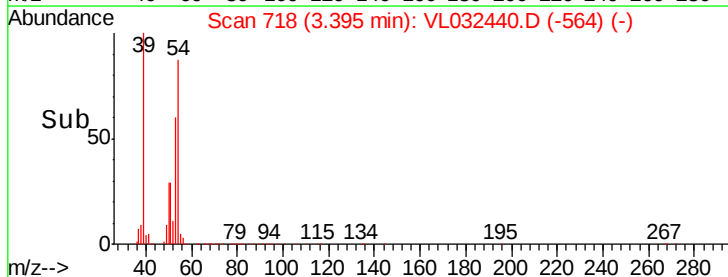
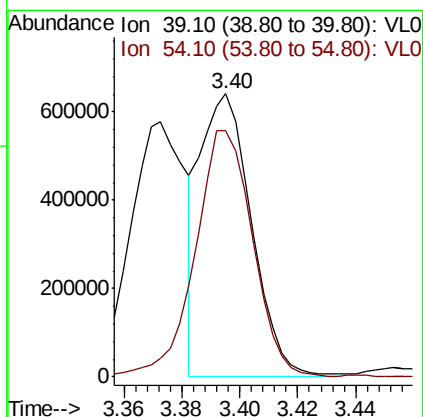
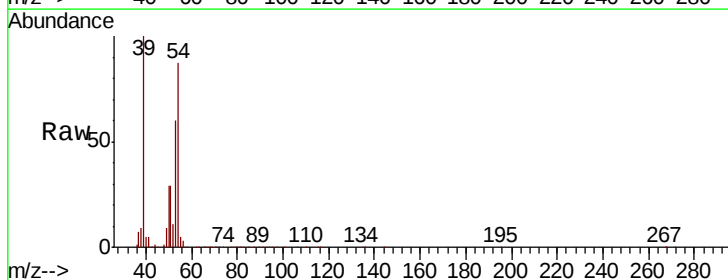
Manual Integrations
APPROVED

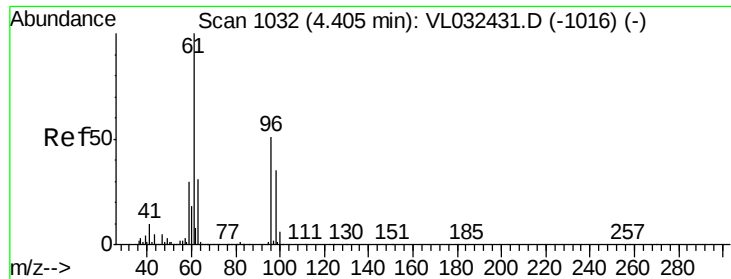
apatel
9/4/2018 8:25:54 AM



#16
1,3-Butadiene
Concen: 9.252 ppbv
RT: 3.40 min Scan# 718
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion: 39 Resp: 782995
Ion Ratio Lower Upper
39 100
54 99.3 80.8 121.2





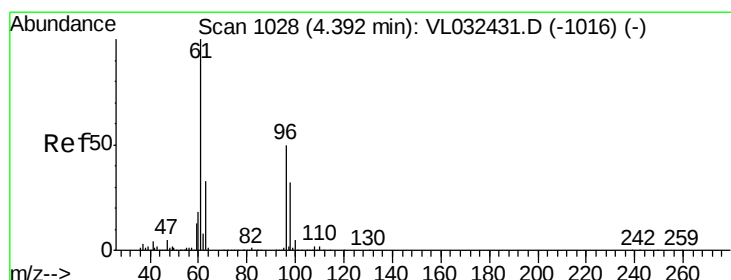
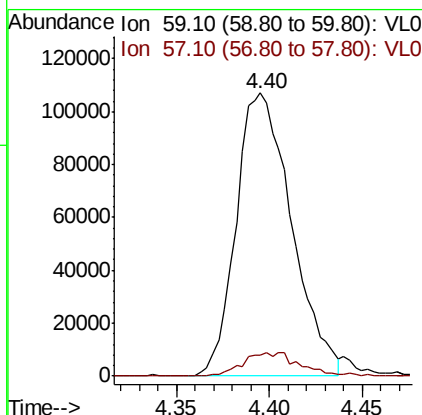
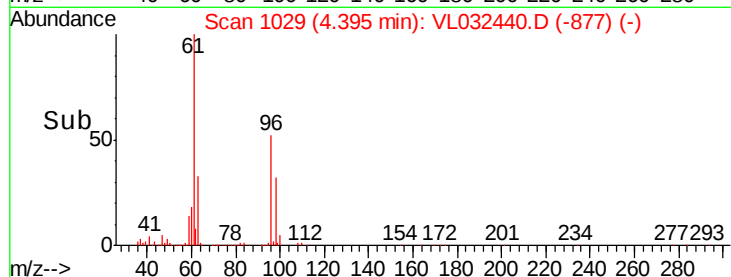
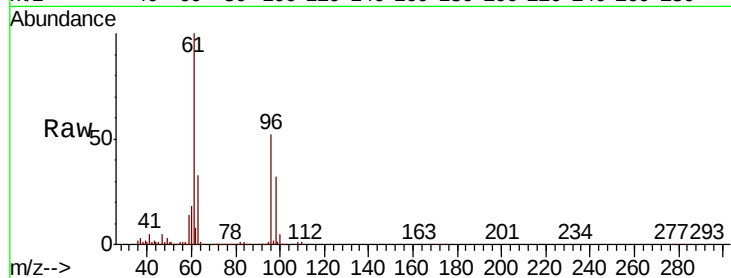
#17
 tert-Butyl alcohol
 Concen: 8.012 ppbv
 RT: 4.40 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion: 59 Resp: 221749
 Ion Ratio Lower Upper
 59 100
 57 8.7 0.0 0.0#

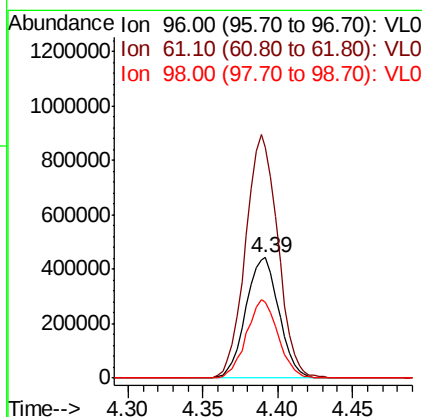
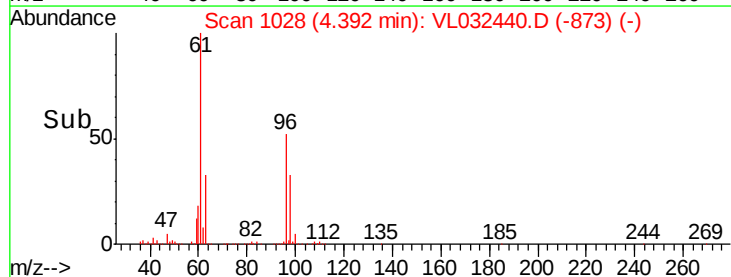
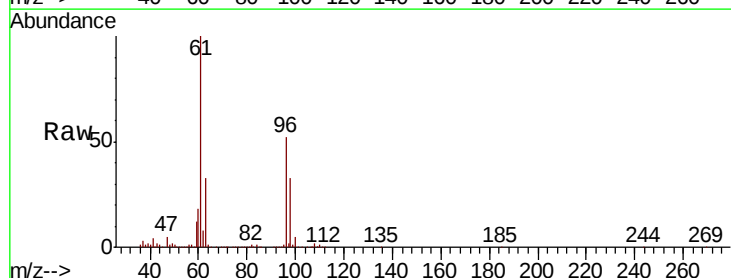
Manual Integrations
 APPROVED

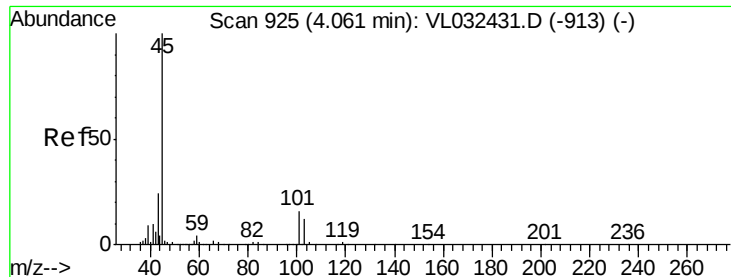
apatel
 9/4/2018 8:25:54 AM



#18
 1,1-Dichloroethene
 Concen: 9.600 ppbv
 RT: 4.39 min Scan# 1028
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion: 96 Resp: 684870
 Ion Ratio Lower Upper
 96 100
 61 192.3 159.2 238.8
 98 63.3 51.0 76.4





#19

Isopropyl Alcohol

Concen: 9.746 ppbv

RT: 4.06 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion: 45 Resp: 1149857

Ion Ratio Lower Upper

45 100

58 2.7 2.0 3.0

Instrument :

MSVOA_L

ClientSampleId :

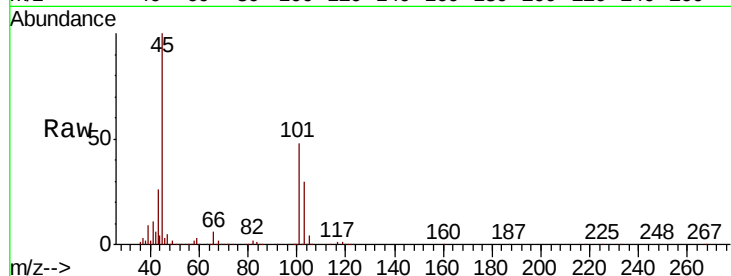
VL0831ABS01

Manual Integrations

APPROVED

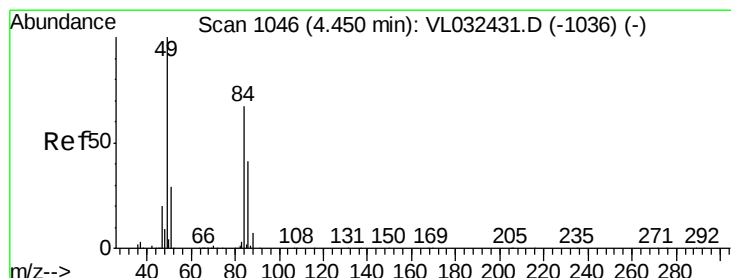
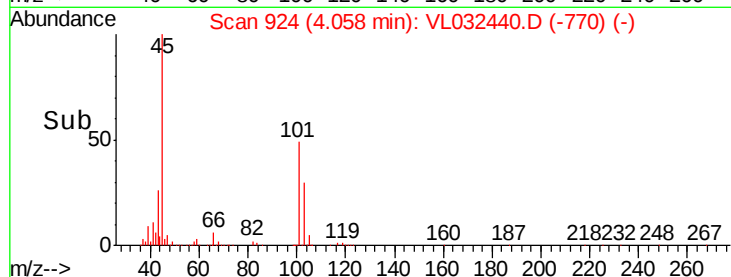
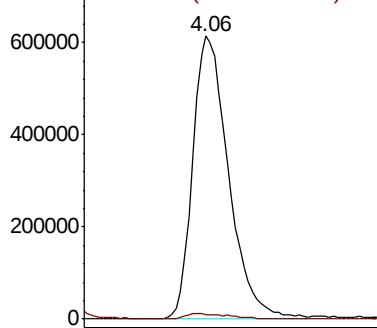
apatel

9/4/2018 8:25:54 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.890 ppbv

RT: 4.45 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion: 84 Resp: 609637

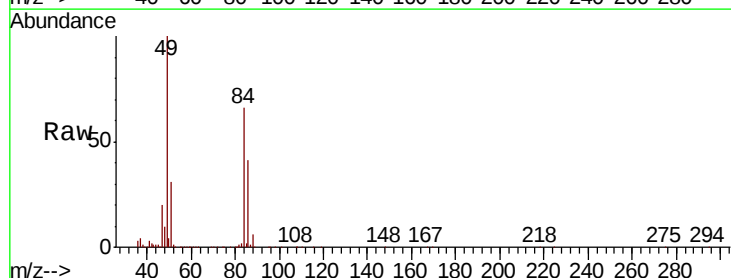
Ion Ratio Lower Upper

84 100

49 151.8 119.1 178.7

51 47.7 35.2 52.8

86 62.6 49.4 74.2

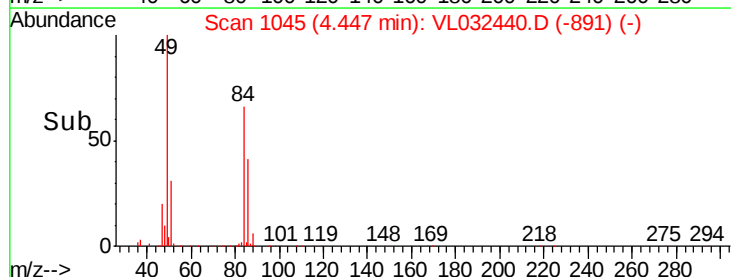
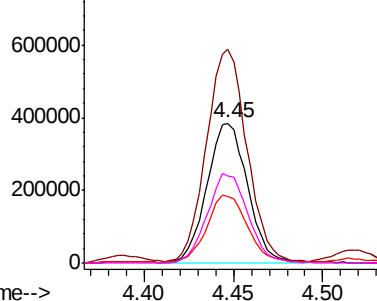


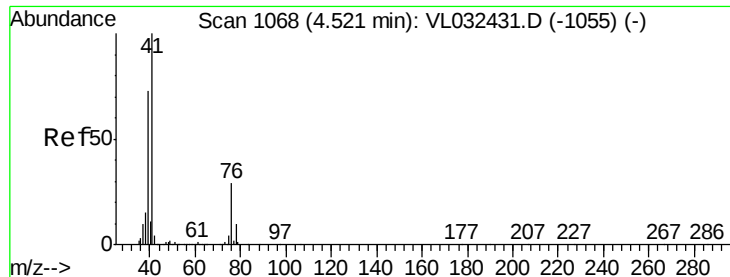
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





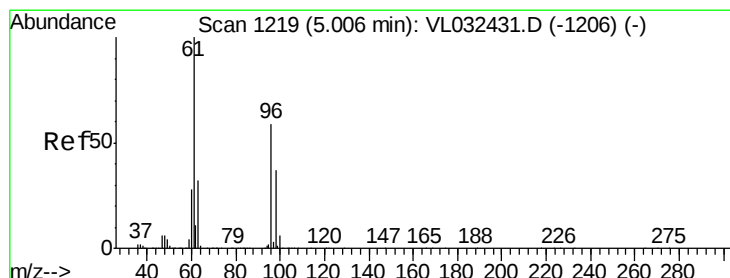
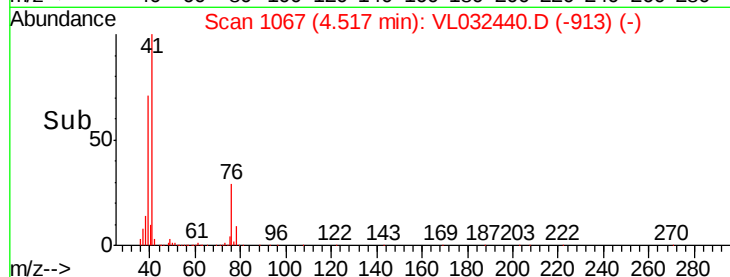
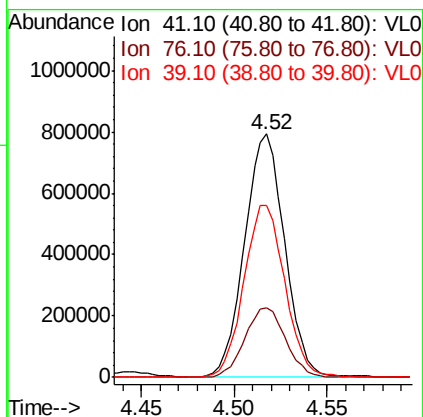
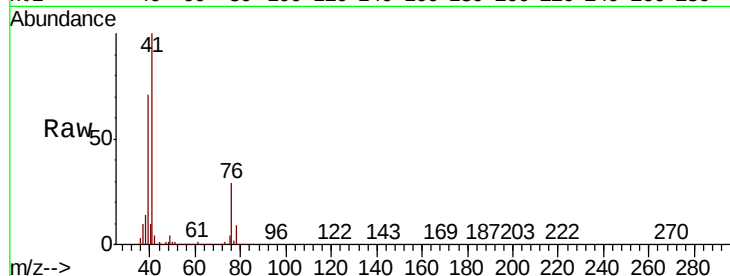
#21
 Allyl Chloride
 Concen: 9.963 ppbv
 RT: 4.52 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0831ABS01

Tgt Ion: 41 Resp: 1190074
 Ion Ratio Lower Upper
 41 100
 76 29.4 23.6 35.4
 39 72.6 57.7 86.5

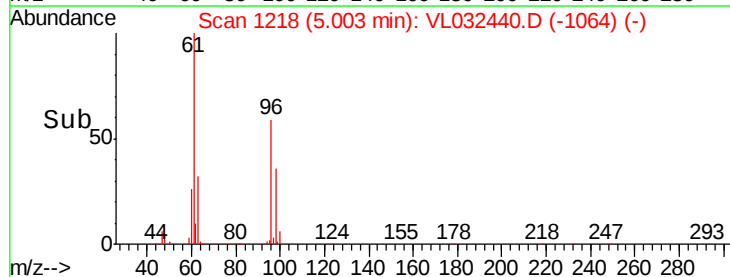
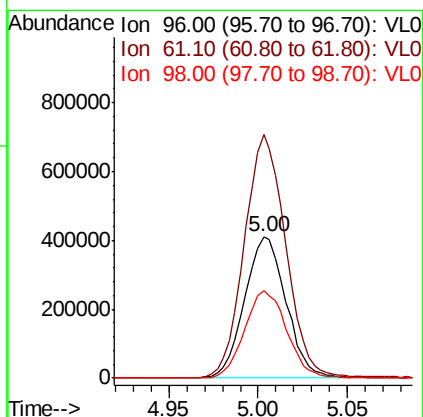
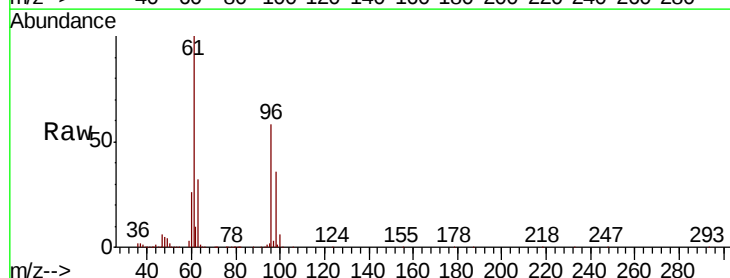
Manual Integrations
 APPROVED

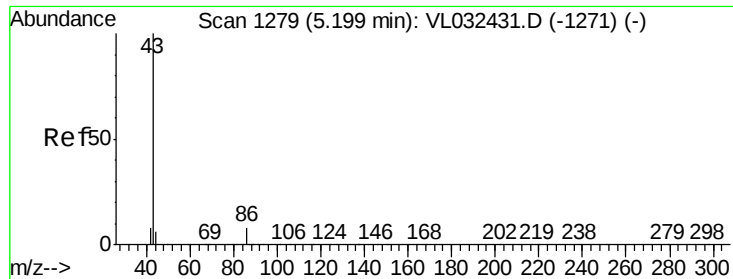
apatel
 9/4/2018 8:25:54 AM



#22
 trans-1,2-Dichloroethene
 Concen: 8.599 ppbv
 RT: 5.00 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion: 96 Resp: 665624
 Ion Ratio Lower Upper
 96 100
 61 172.2 136.2 204.4
 98 61.9 50.4 75.6





#23

Vinyl Acetate

Concen: 9.340 ppbv

RT: 5.20 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

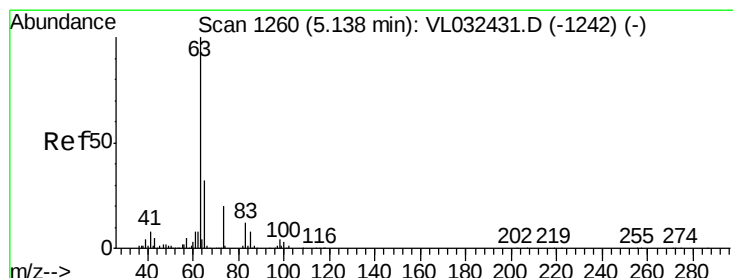
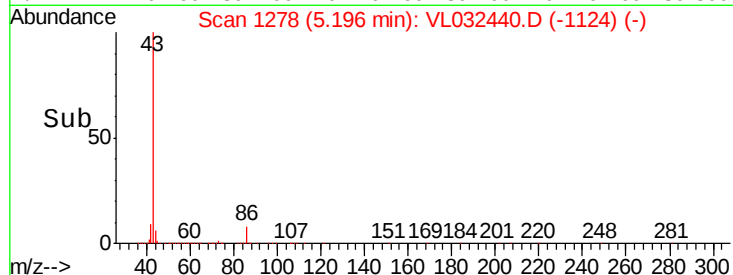
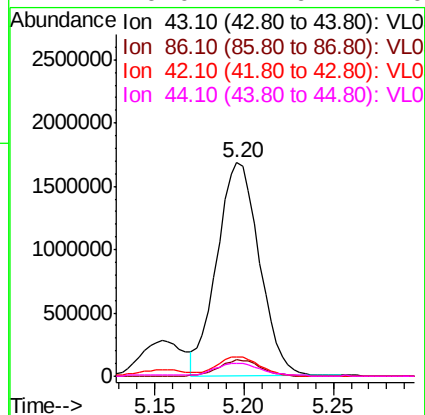
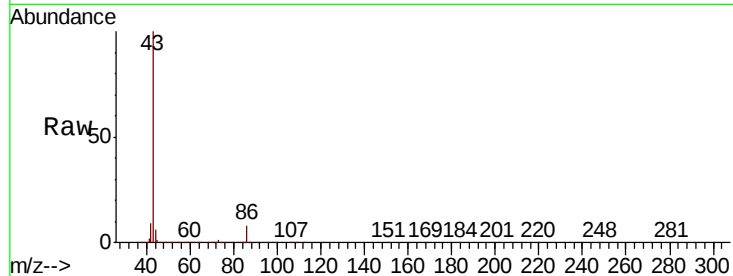
ClientSampleId :

VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.9	8.9
42	8.8	6.9	10.3
44	6.0	4.6	7.0

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:54 AM



#24

1,1-Dichloroethane

Concen: 8.337 ppbv

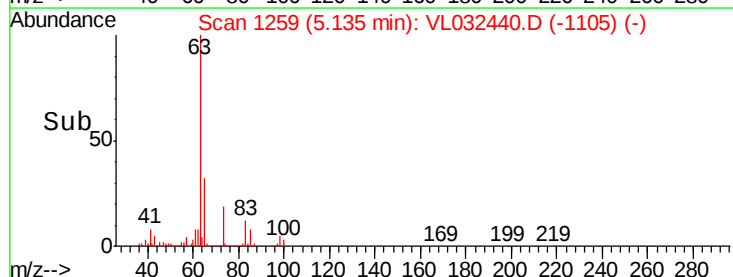
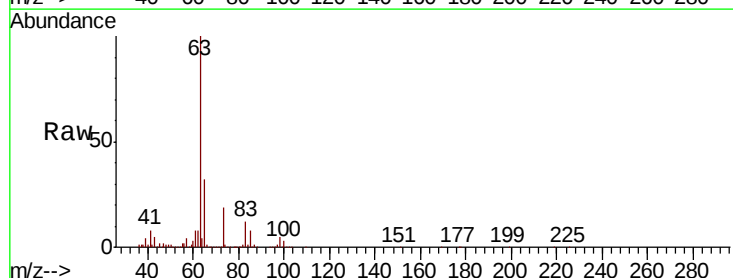
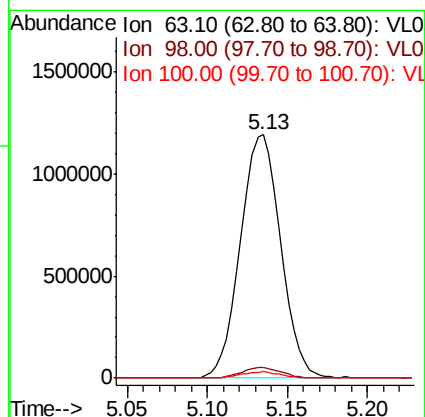
RT: 5.13 min Scan# 1259

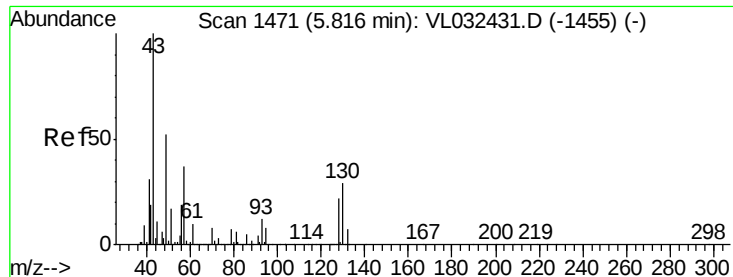
Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.1	6.5
100	2.6	1.5	4.4





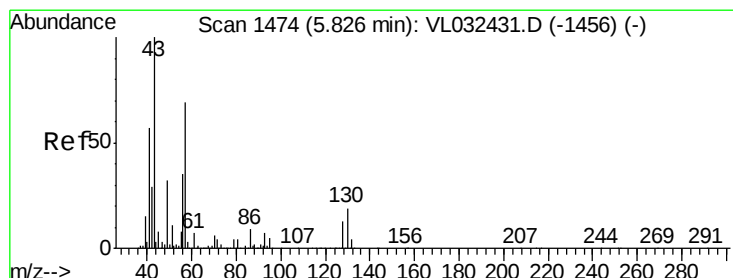
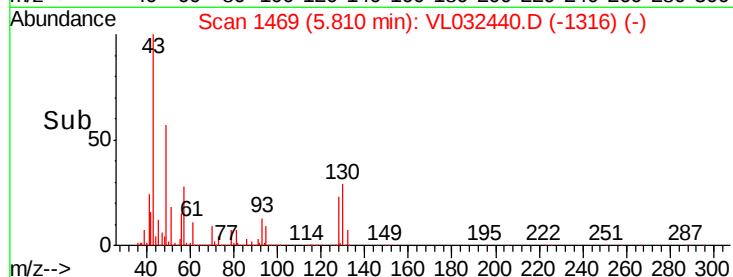
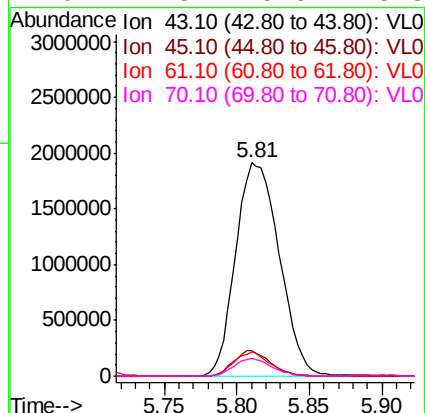
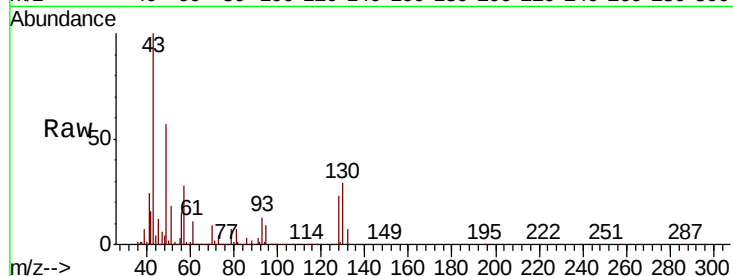
#25
Ethyl Acetate
Concen: 9.433 ppbv
RT: 5.81 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.0	12.0
61	9.5	7.6	11.4
70	7.3	5.8	8.8

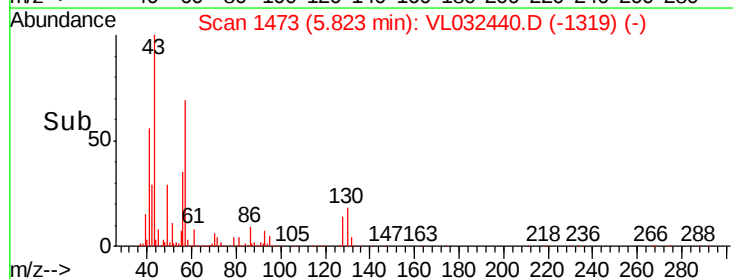
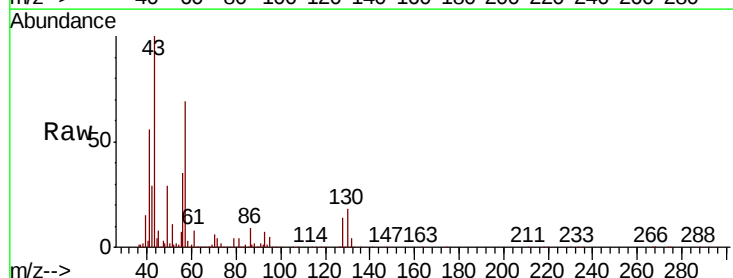
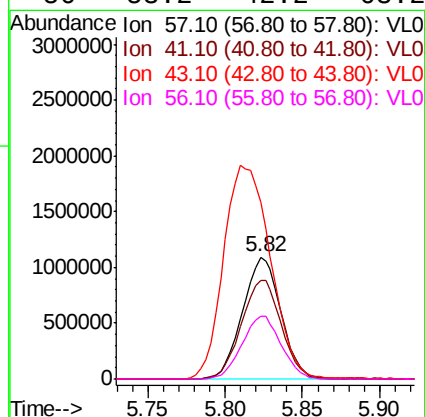
Manual Integrations
APPROVED

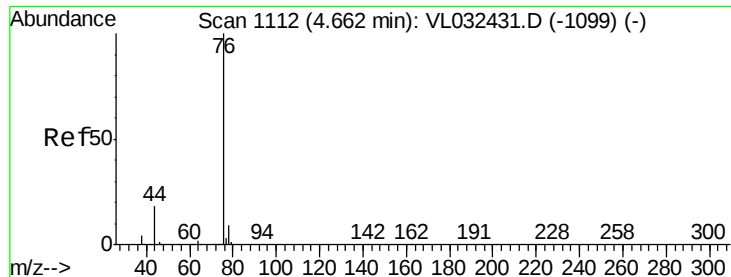
apatel
9/4/2018 8:25:54 AM



#26
Hexane
Concen: 9.822 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.1	69.0	103.4
43	216.0	172.1	258.1
56	53.2	42.2	63.2





#27

Carbon Disulfide

Concen: 10.378 ppbv

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

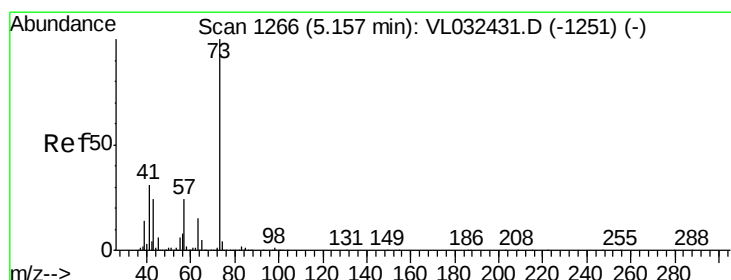
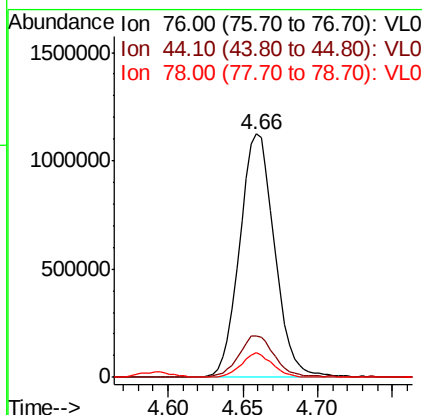
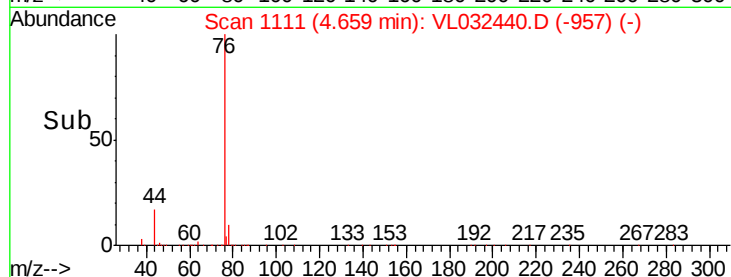
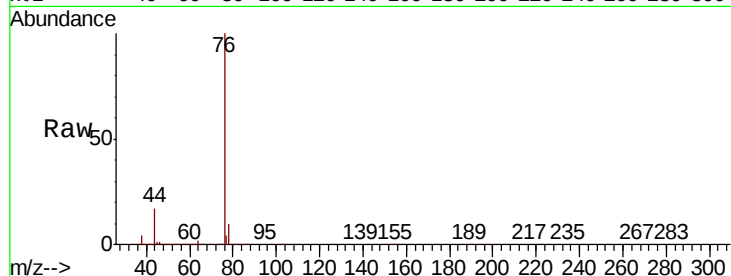
ClientSampleId :

VL0831ABS01

Tgt Ion:	76	Resp:	1821816
Ion	Ratio	Lower	Upper
76	100		
44	17.0	14.0	21.0
78	9.3	7.5	11.3

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:54 AM



#28

Methyl tert-Butyl Ether

Concen: 8.999 ppbv

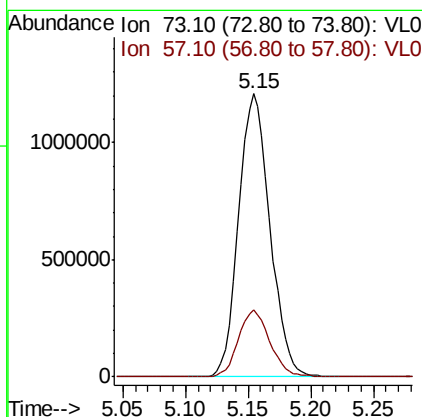
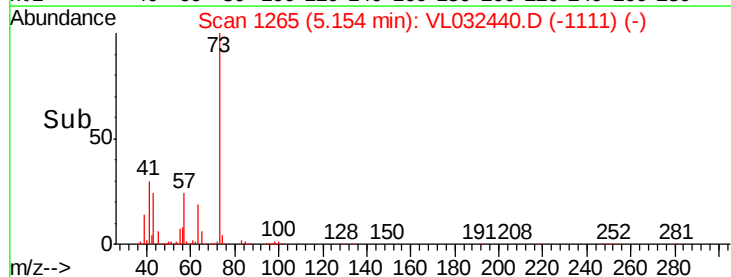
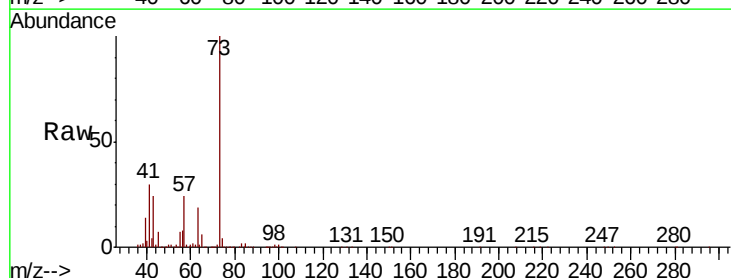
RT: 5.15 min Scan# 1265

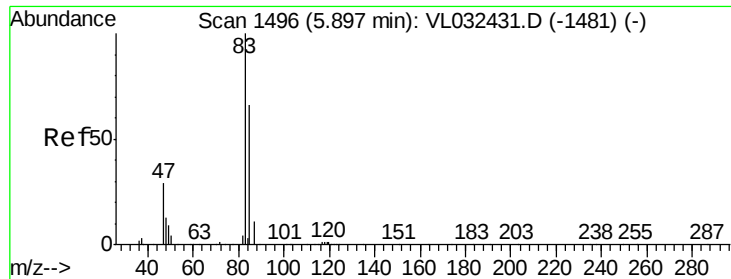
Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion:	73	Resp:	2101339
Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.3	28.9





#29

Chloroform

Concen: 9.480 ppbv

RT: 5.89 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 83 Resp: 2748951

Ion Ratio Lower Upper

83 100

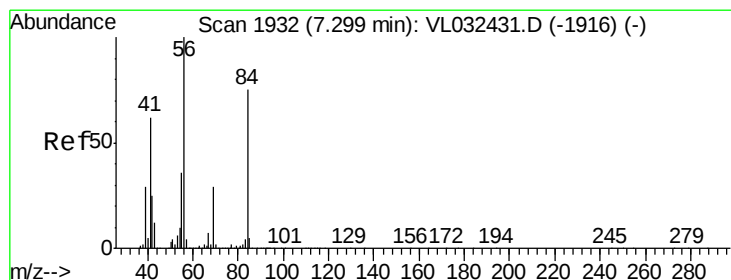
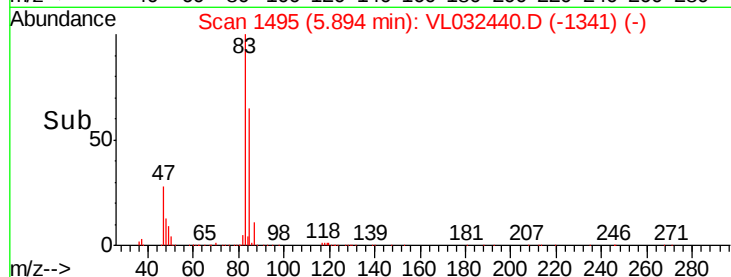
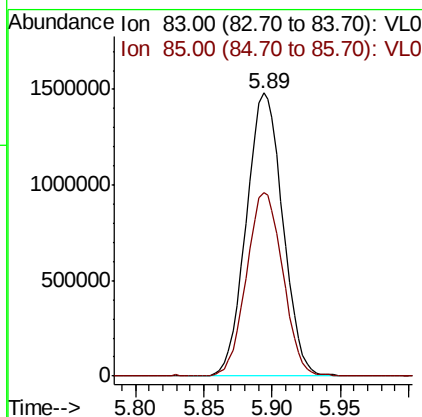
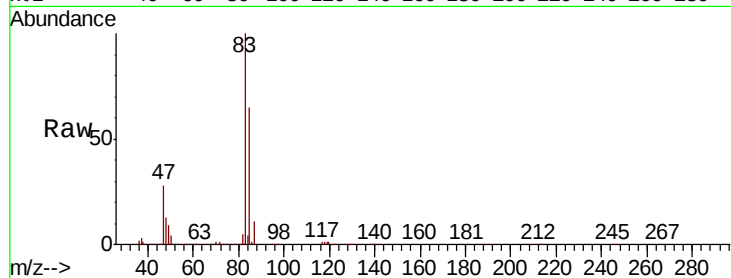
85 64.9 52.5 78.7

Manual Integrations

APPROVED

apatel

9/4/2018 8:25:54 AM



#30

Cyclohexane

Concen: 10.315 ppbv

RT: 7.30 min Scan# 1931

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

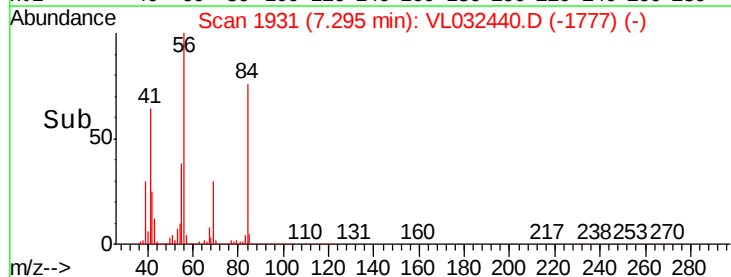
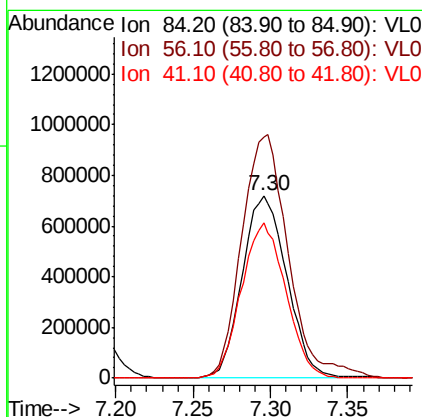
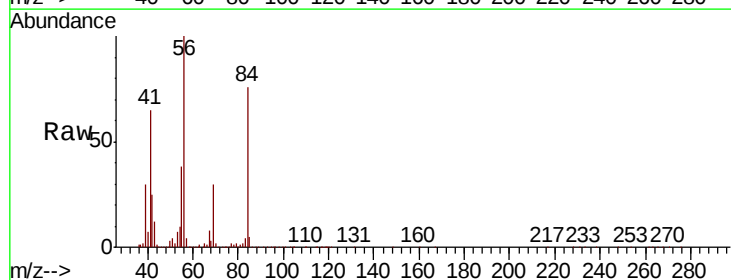
Tgt Ion: 84 Resp: 1436437

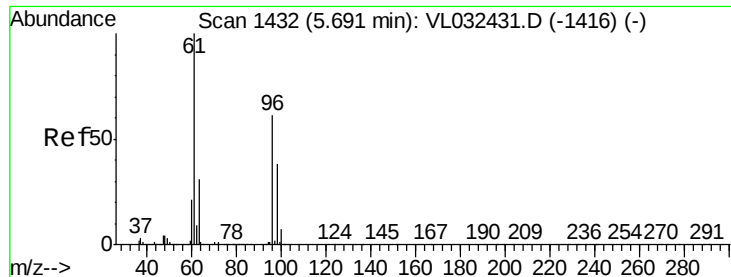
Ion Ratio Lower Upper

84 100

56 141.1 113.5 170.3

41 85.3 68.1 102.1





#31

cis-1,2-Dichloroethene

Concen: 9.641 ppbv

RT: 5.68 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

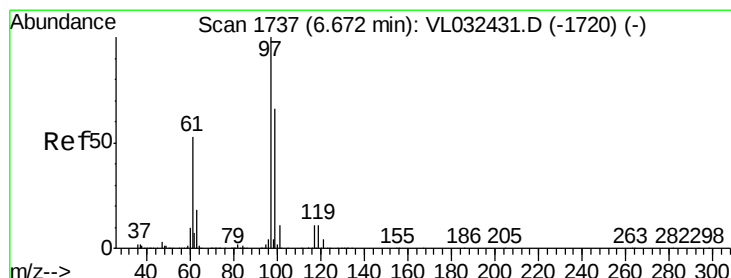
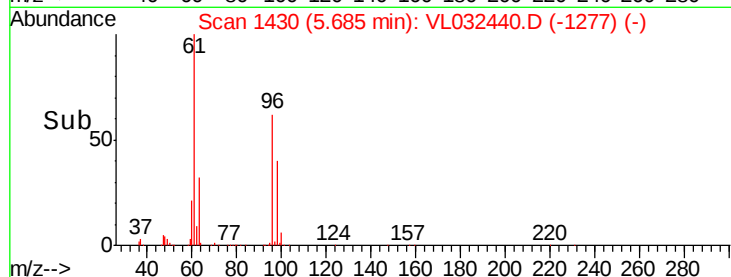
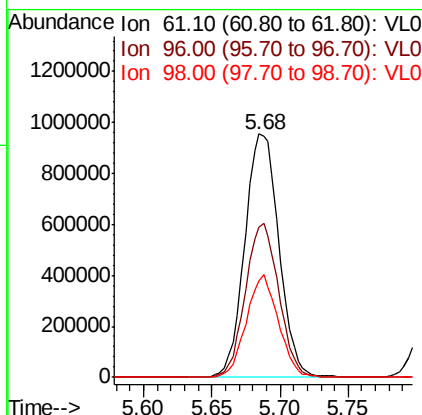
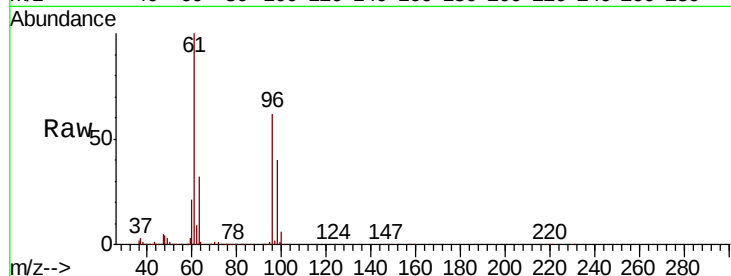
ClientSampleId :

VL0831ABS01

Tgt Ion:	61	Resp:	1660268
Ion	Ratio	Lower	Upper
61	100		
96	61.6	49.2	73.8
98	39.6	30.7	46.1

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:54 AM



#32

1,1,1-Trichloroethane

Concen: 9.282 ppbv

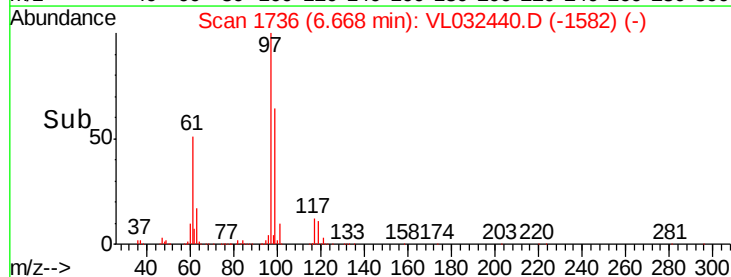
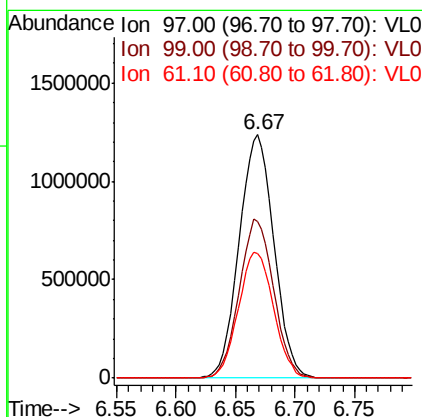
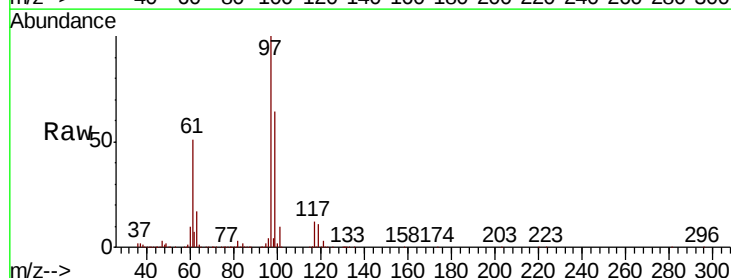
RT: 6.67 min Scan# 1736

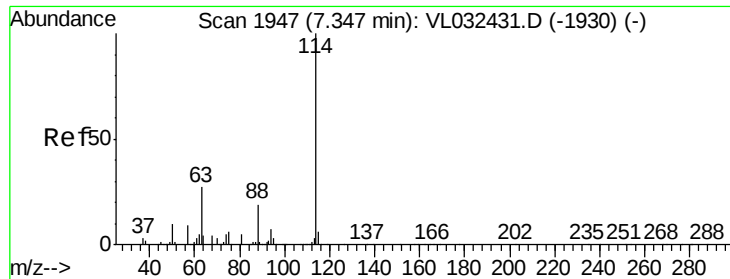
Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion:	97	Resp:	2508726
Ion	Ratio	Lower	Upper
97	100		
99	64.5	52.1	78.1
61	52.3	42.5	63.7





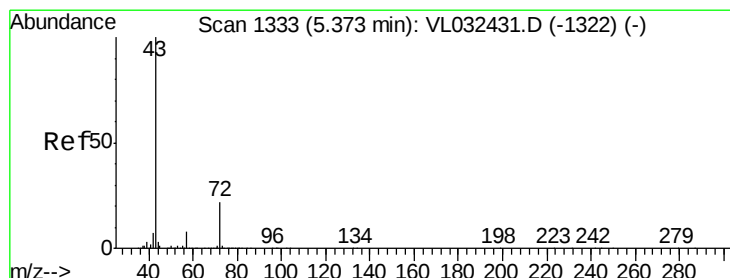
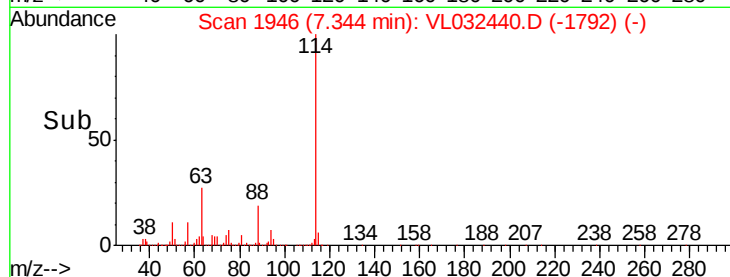
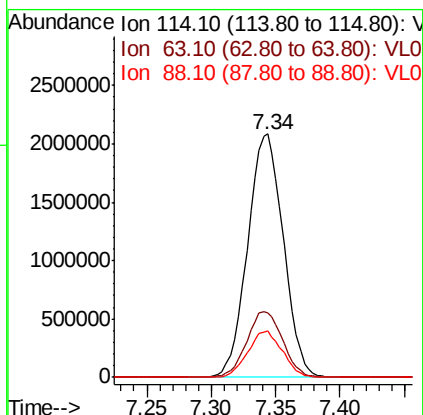
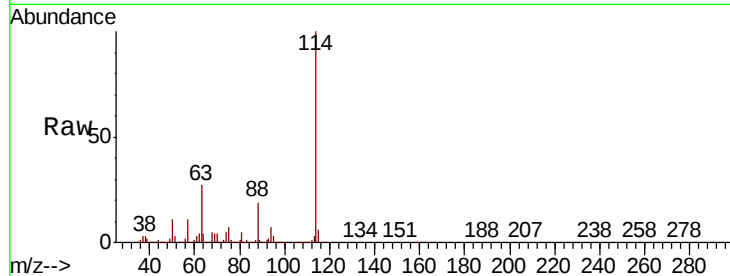
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.34 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion: 114 Resp: 4018422
 Ion Ratio Lower Upper
 114 100
 63 27.5 22.2 33.4
 88 18.5 15.0 22.4

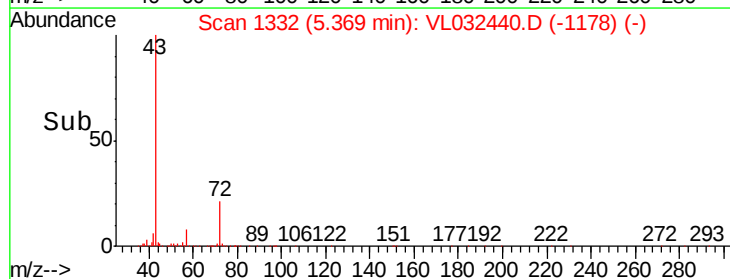
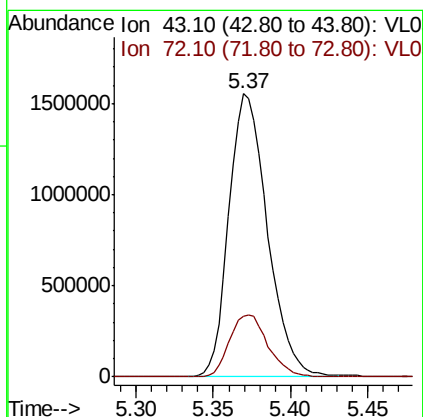
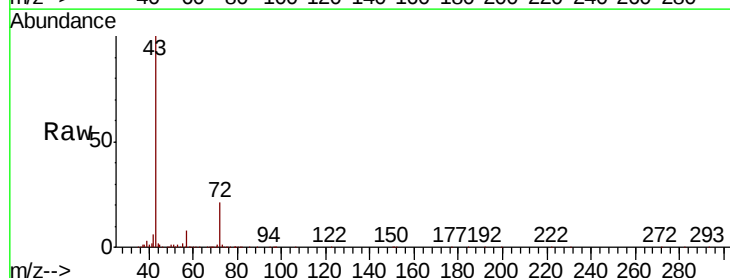
Manual Integrations
 APPROVED

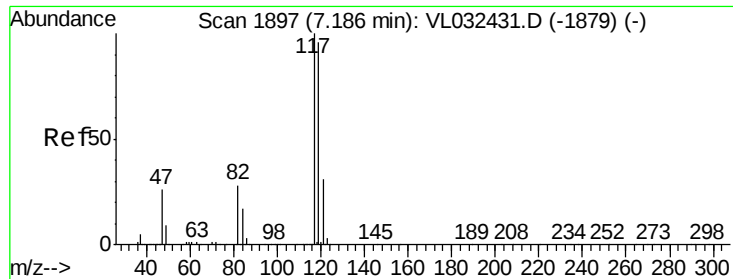
apatel
 9/4/2018 8:25:54 AM



#34
 2-Butanone
 Concen: 10.024 ppbv
 RT: 5.37 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion: 43 Resp: 2675450
 Ion Ratio Lower Upper
 43 100
 72 22.1 17.8 26.6





#35

Carbon Tetrachloride

Concen: 9.507 ppbv

RT: 7.18 min Scan# 1896

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

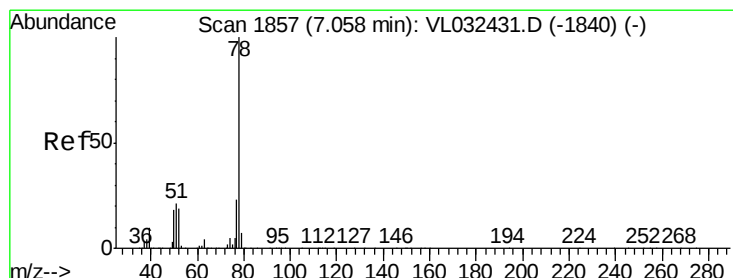
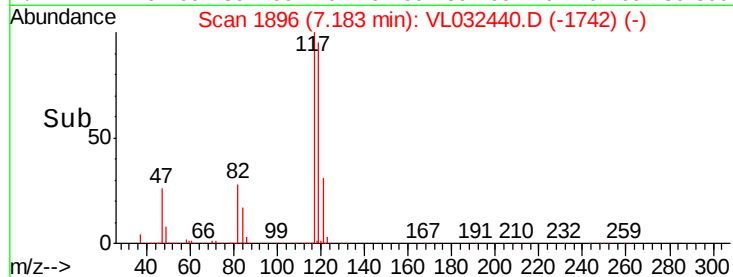
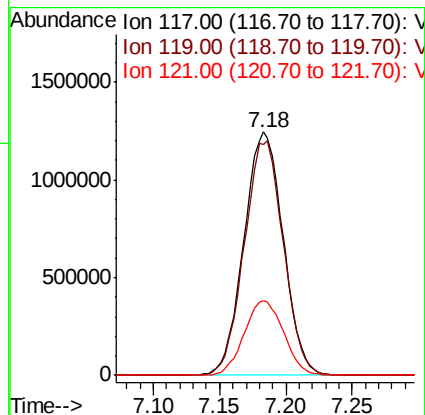
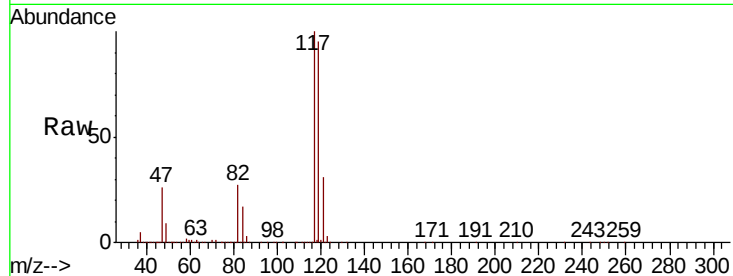
ClientSampleId :

VL0831ABS01

Tgt Ion:	117	Resp:	2567831
Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.6	115.0
121	30.9	24.6	36.8

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:54 AM



#36

Benzene

Concen: 10.519 ppbv

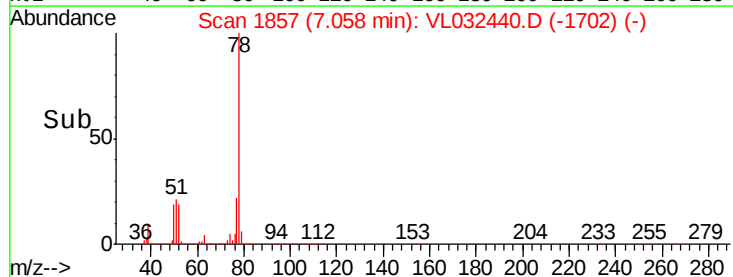
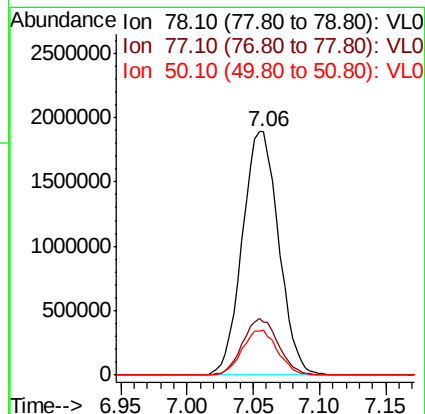
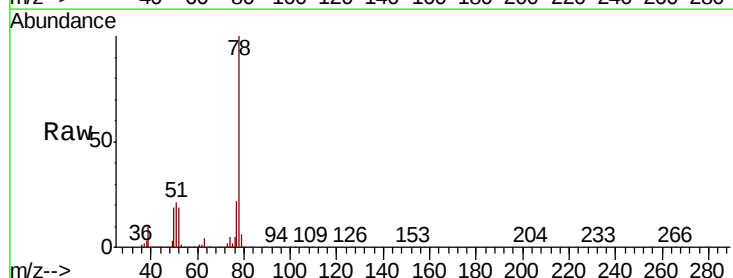
RT: 7.06 min Scan# 1857

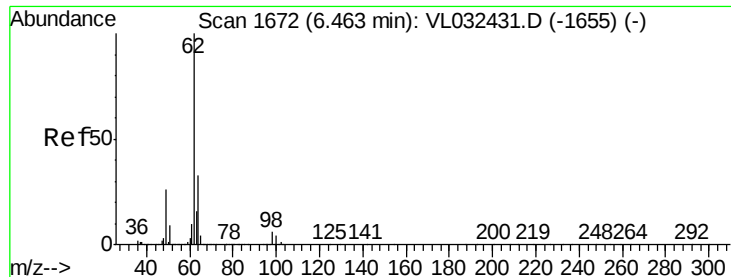
Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion:	78	Resp:	3597254
Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.4	27.6
50	18.7	14.4	21.6





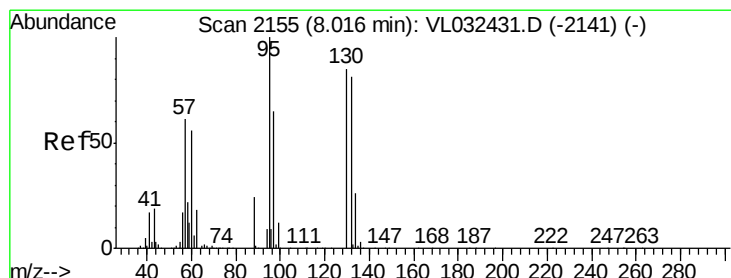
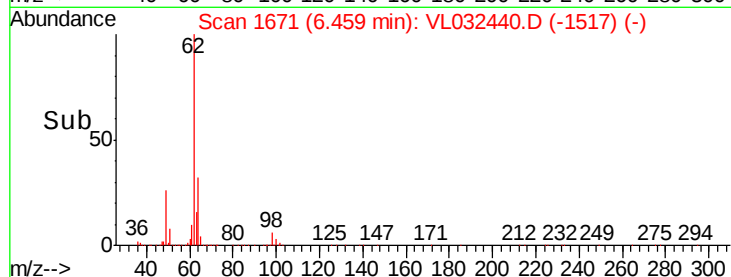
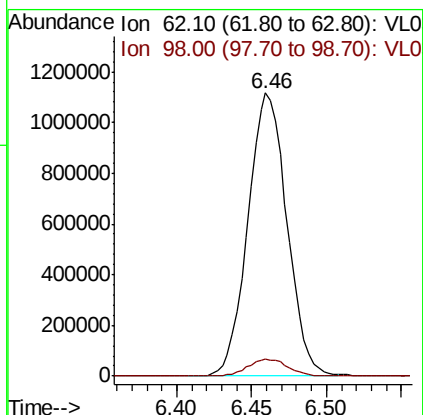
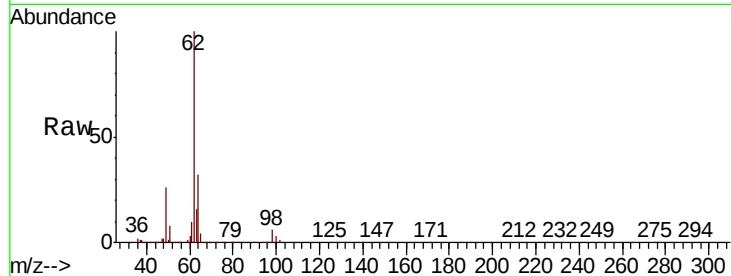
#37
 1,2-Dichloroethane
 Concen: 9.647 ppbv
 RT: 6.46 min Scan# 1671
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion: 62 Resp: 2021628
 Ion Ratio Lower Upper
 62 100
 98 6.2 5.0 7.6

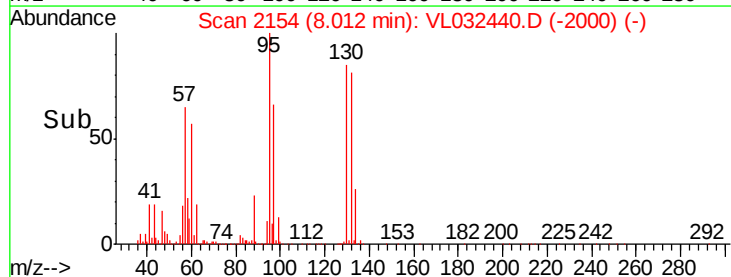
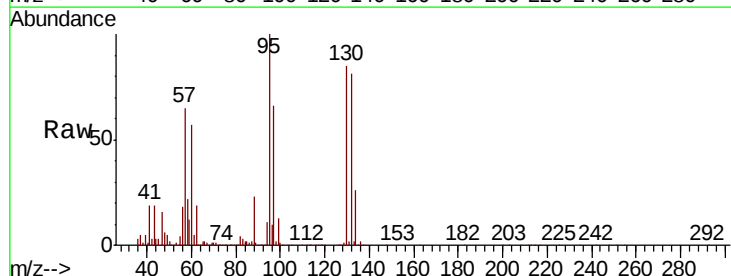
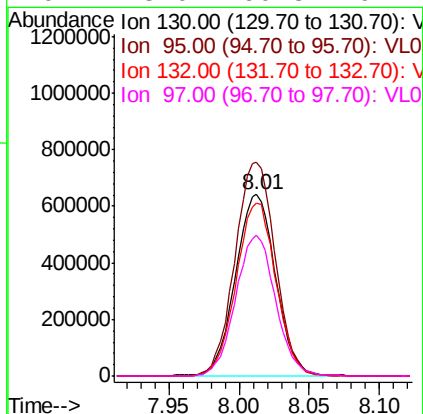
Manual Integrations
 APPROVED

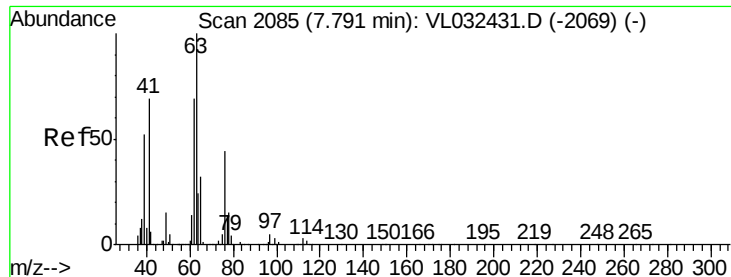
apatel
 9/4/2018 8:25:54 AM



#38
 Trichloroethene
 Concen: 9.750 ppbv
 RT: 8.01 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion: 130 Resp: 1266603
 Ion Ratio Lower Upper
 130 100
 95 117.8 94.2 141.4
 132 95.4 76.2 114.4
 97 78.0 60.8 91.2





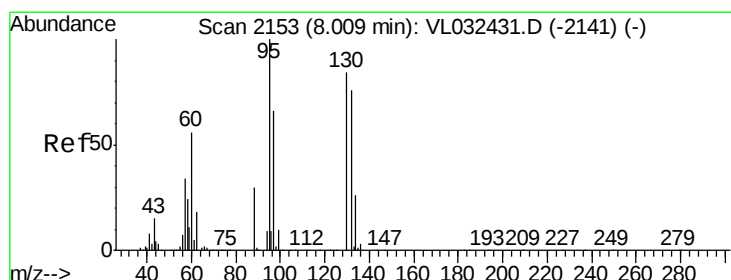
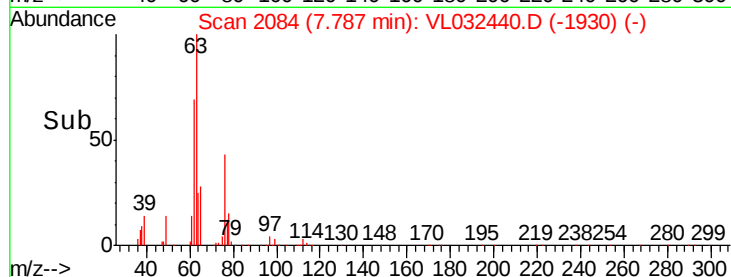
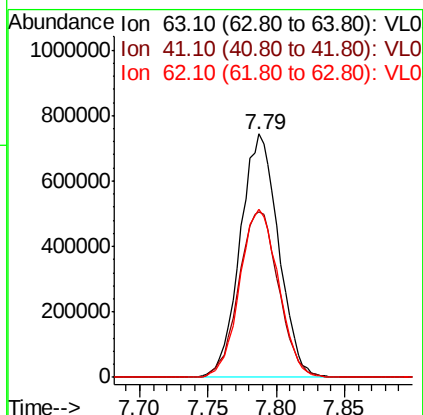
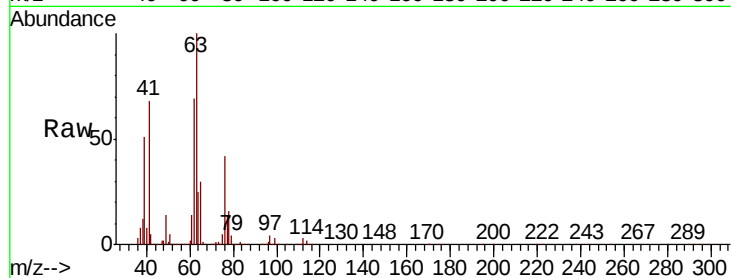
#39
 1,2-Dichloropropane
 Concen: 9.905 ppbv
 RT: 7.79 min Scan# 2084
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
63	100		
41	67.8	55.4	83.0
62	68.8	55.4	83.0

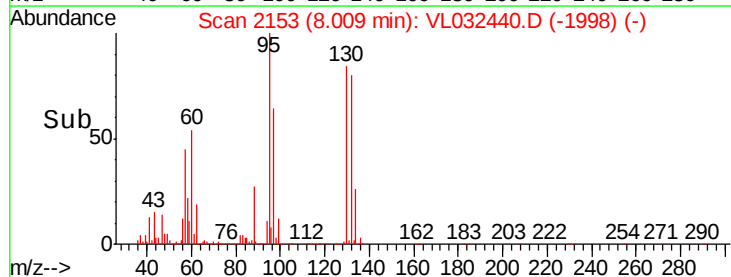
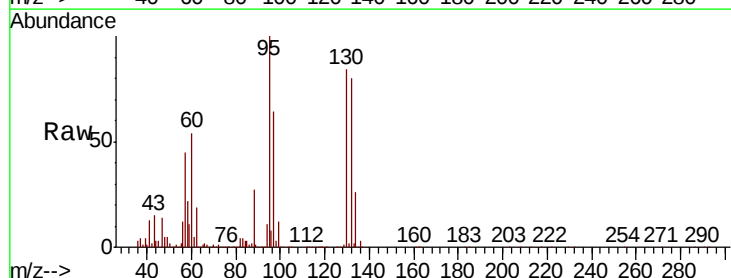
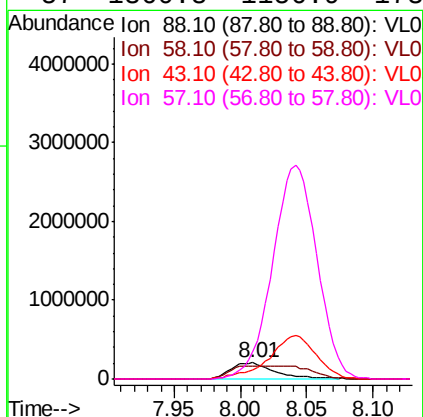
Manual Integrations
 APPROVED

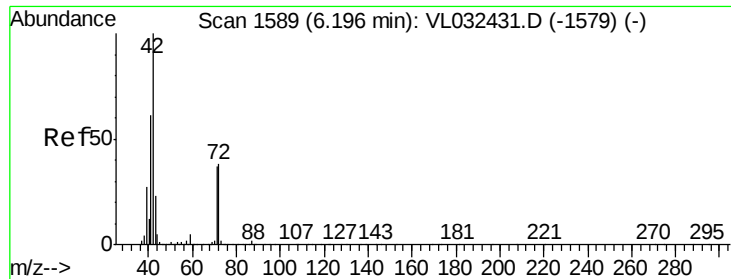
apatel
 9/4/2018 8:25:54 AM



#40
 1,4-Dioxane
 Concen: 10.708 ppbv
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
88	100		
58	146.7	119.7	179.5
43	294.4	253.0	379.4
57	1360.8	1156.9	1735.3





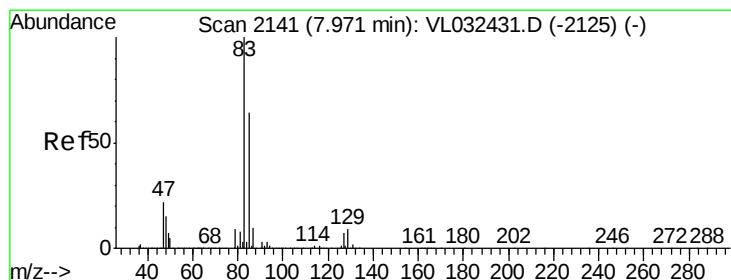
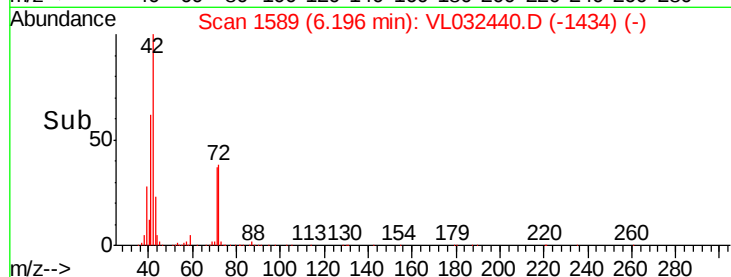
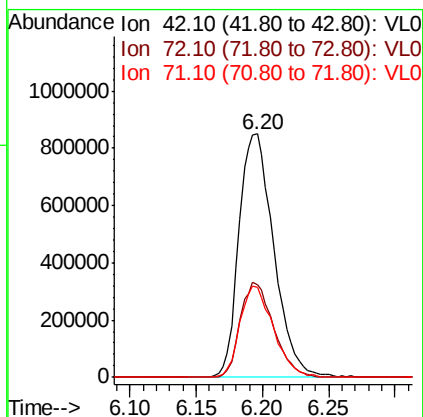
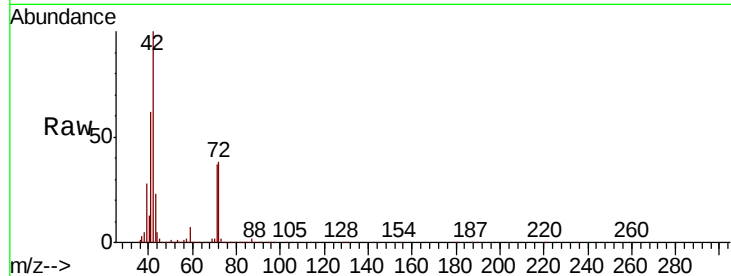
#41
Tetrahydrofuran
Concen: 10.703 ppbv
RT: 6.20 min Scan# 1589
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.6	29.5	44.3
71	36.2	28.3	42.5

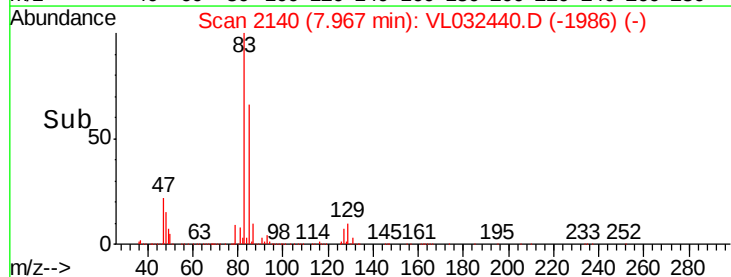
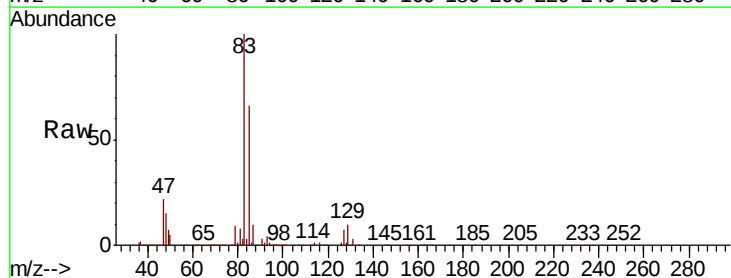
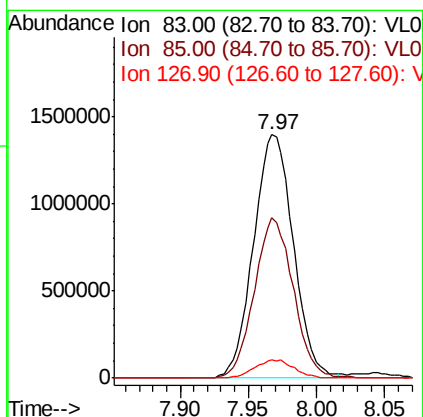
Manual Integrations
APPROVED

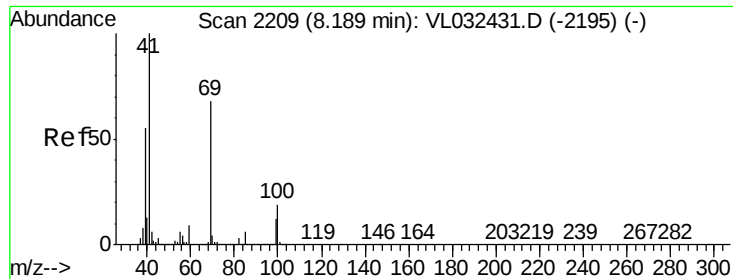
apatel
9/4/2018 8:25:54 AM



#42
Bromodichloromethane
Concen: 9.795 ppbv
RT: 7.97 min Scan# 2140
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.1	76.7
127	7.3	5.8	8.8





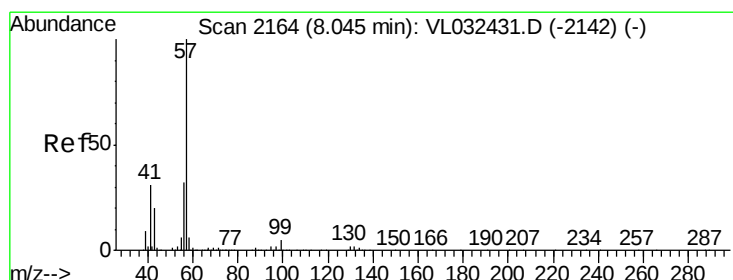
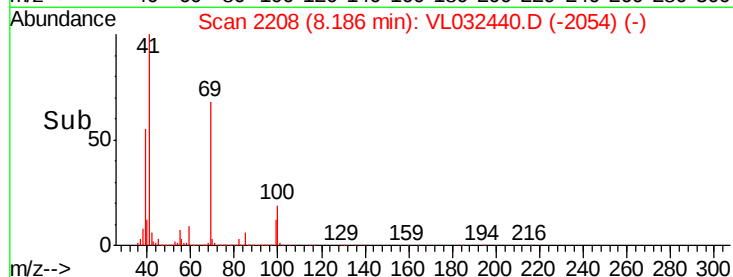
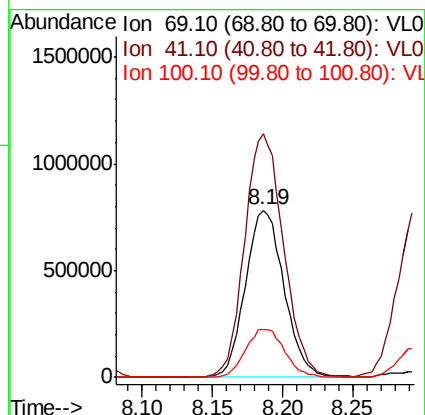
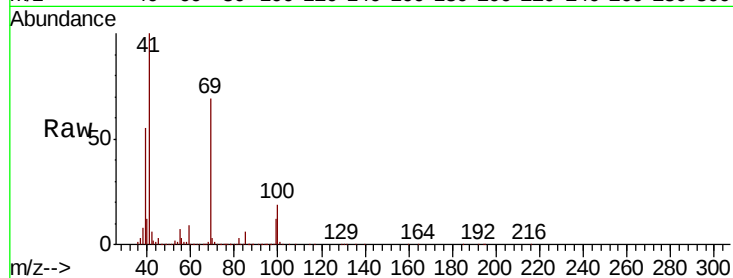
#43
Methyl Methacrylate
Concen: 10.325 ppbv
RT: 8.19 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion: 69 Resp: 1497984
Ion Ratio Lower Upper
69 100
41 146.8 117.1 175.7
100 29.2 23.4 35.2

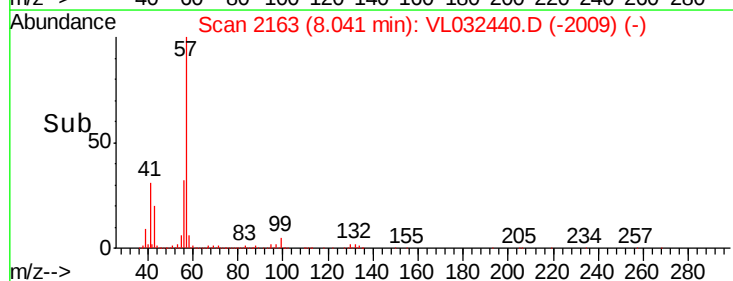
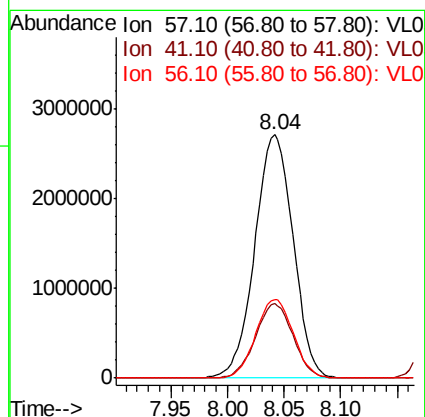
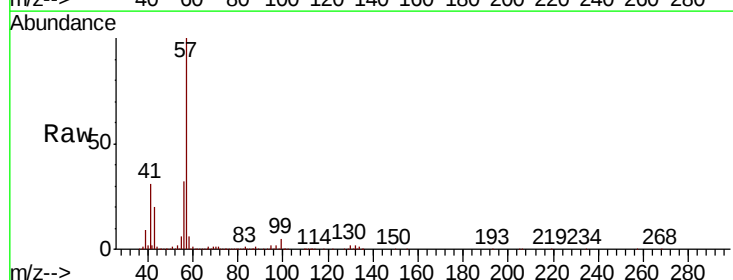
Manual Integrations
APPROVED

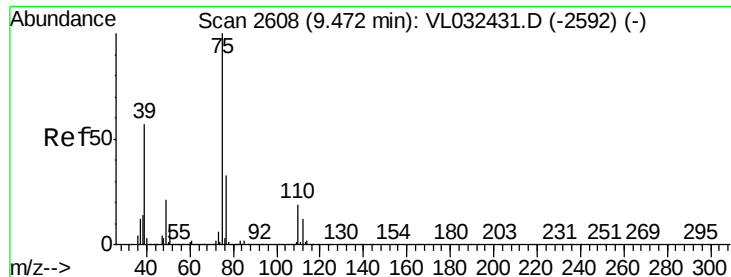
apatel
9/4/2018 8:25:54 AM



#44
2,2,4-Trimethylpentane
Concen: 9.657 ppbv
RT: 8.04 min Scan# 2163
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion: 57 Resp: 6384820
Ion Ratio Lower Upper
57 100
41 30.1 24.4 36.6
56 31.8 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 12.648 ppbv

RT: 9.47 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 75 Resp: 1963436

Ion Ratio Lower Upper

75 100

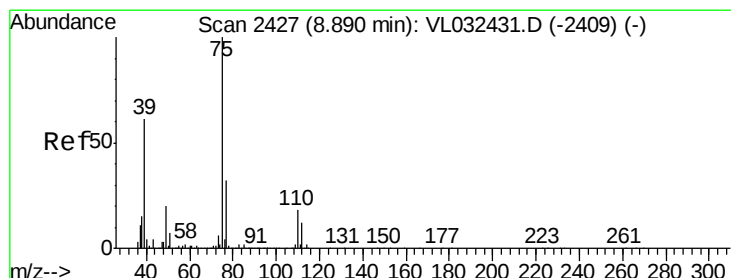
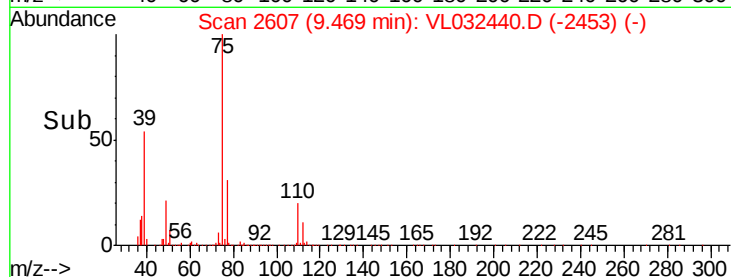
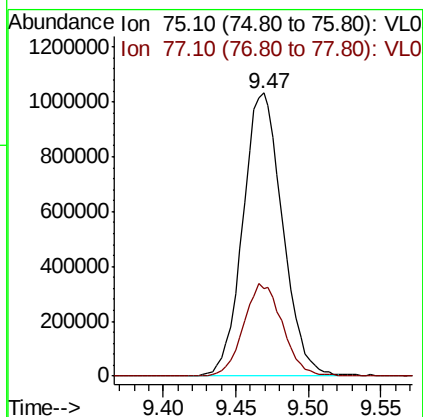
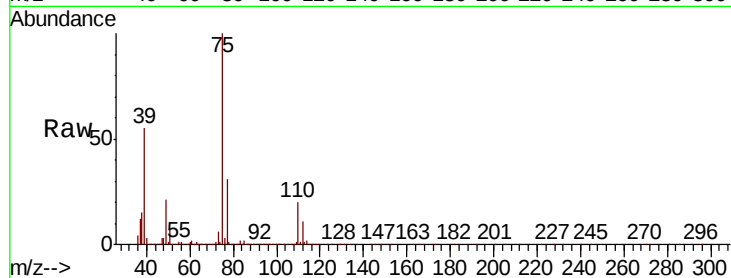
77 30.8 26.2 39.2

Manual Integrations

APPROVED

apatel

9/4/2018 8:25:54 AM



#46

cis-1,3-Dichloropropene

Concen: 12.054 ppbv

RT: 8.89 min Scan# 2426

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

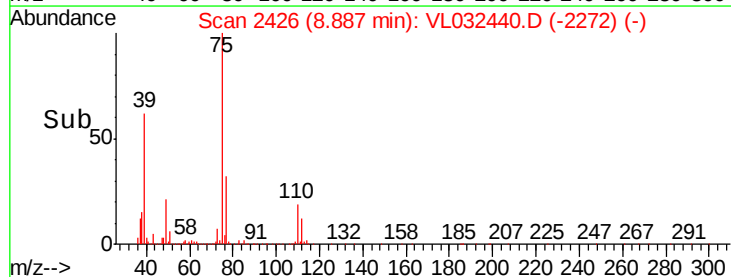
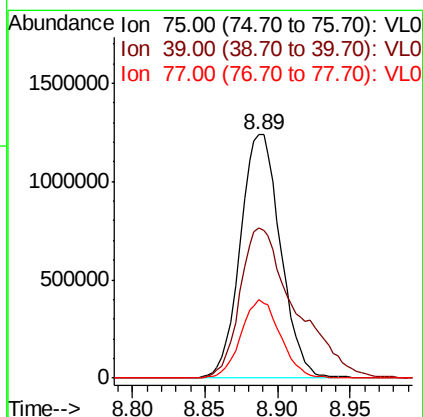
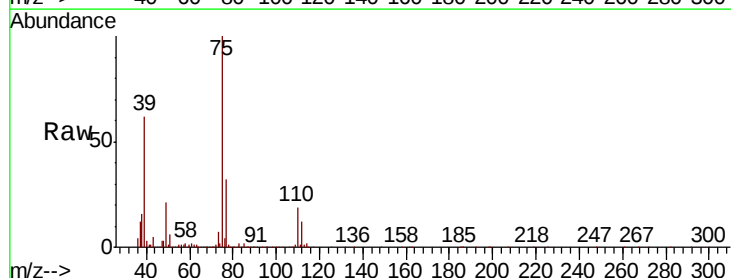
Tgt Ion: 75 Resp: 2391249

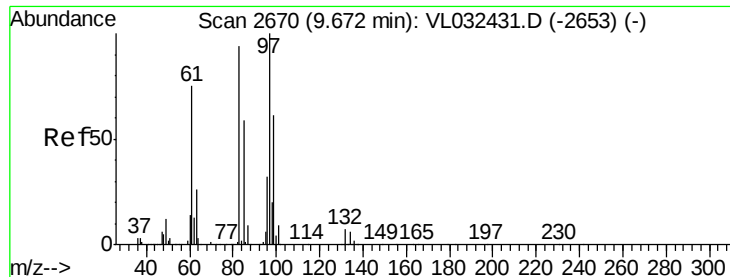
Ion Ratio Lower Upper

75 100

39 61.6 48.9 73.3

77 32.3 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 10.162 ppbv

RT: 9.67 min Scan# 2669

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 97 Resp: 1580812

Ion Ratio Lower Upper

97 100

83 97.4 75.0 112.4

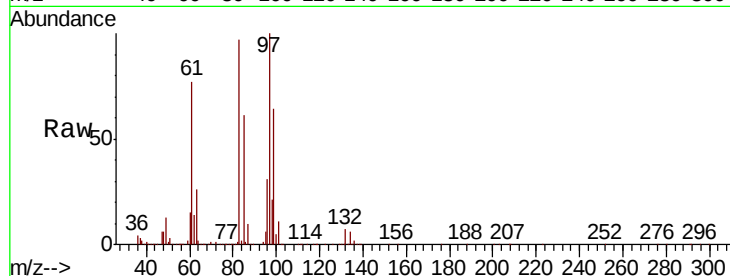
85 60.7 47.5 71.3

99 64.0 49.0 73.6

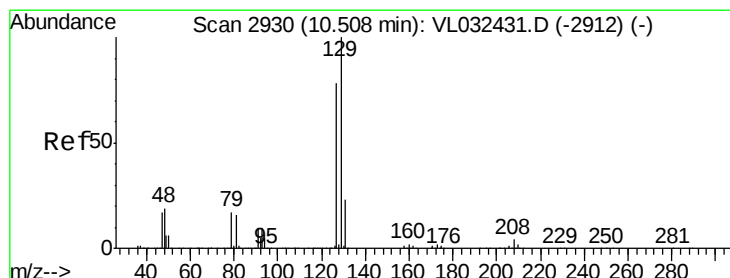
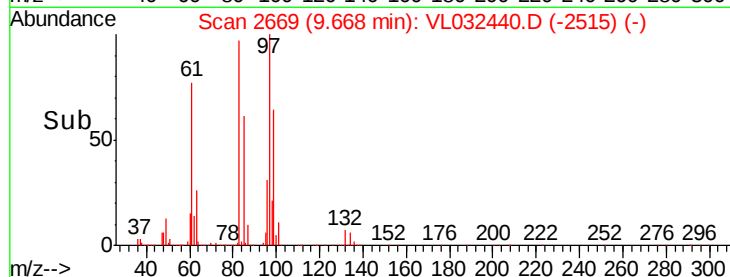
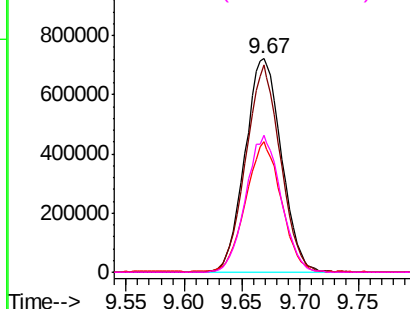
Manual Integrations
APPROVED

apatel

9/4/2018 8:25:54 AM



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.546 ppbv

RT: 10.51 min Scan# 2930

Delta R.T. -0.00 min

Lab File: VL032440.D

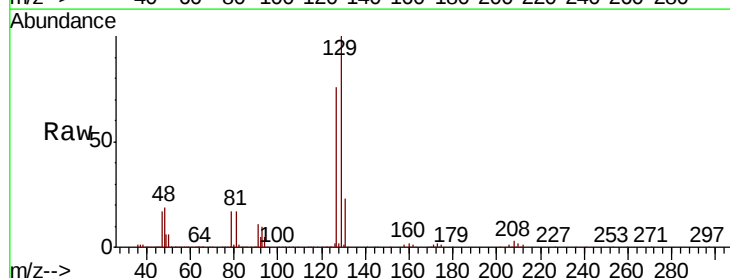
Acq: 31 Aug 2018 14:02

Tgt Ion: 129 Resp: 2272147

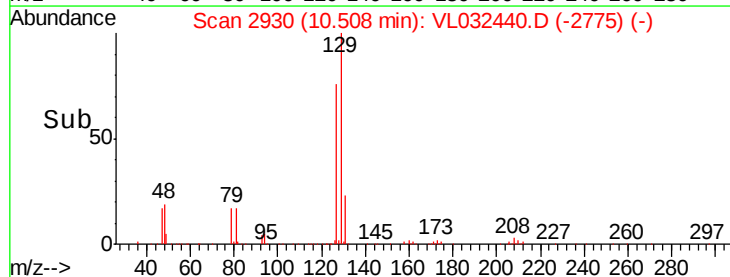
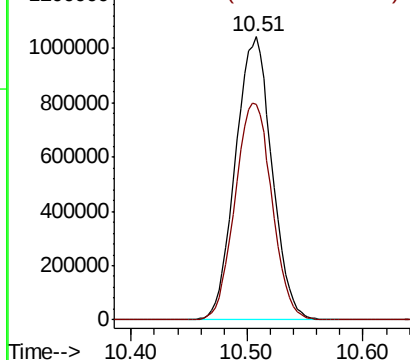
Ion Ratio Lower Upper

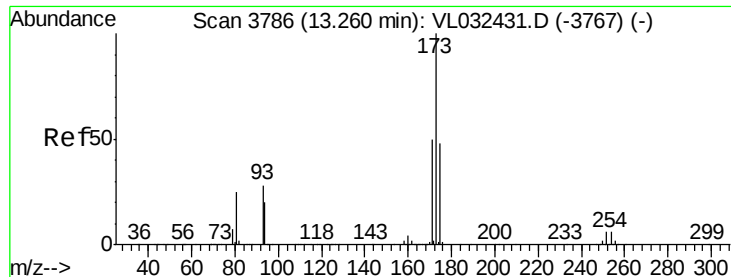
129 100

127 77.8 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.600 ppbv

RT: 13.26 min Scan# 3786

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

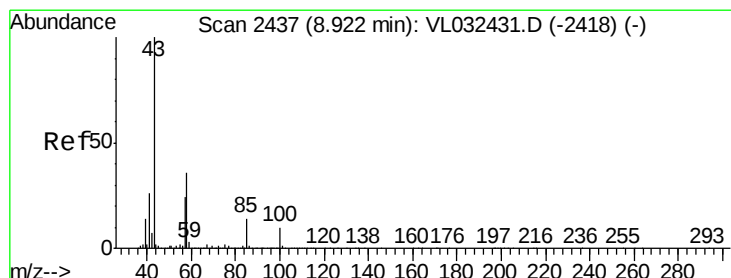
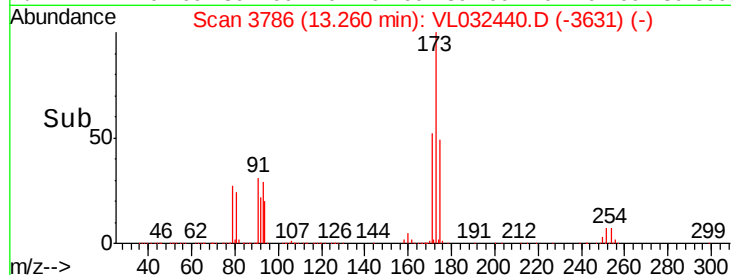
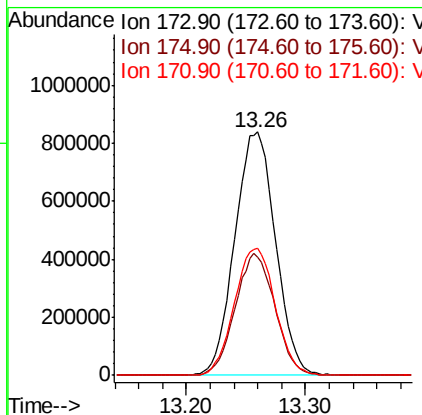
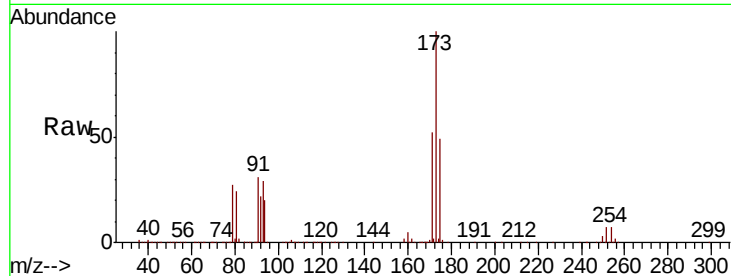
ClientSampled :

VL0831ABS01

Tgt Ion:	173	Resp:	1984937
Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.9	58.3
171	52.5	41.6	62.4

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:54 AM



#50

4-Methyl-2-Pentanone

Concen: 10.444 ppbv

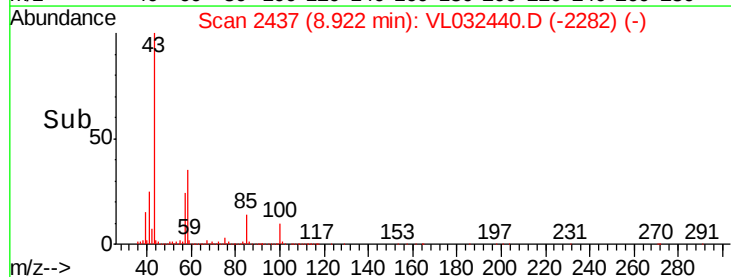
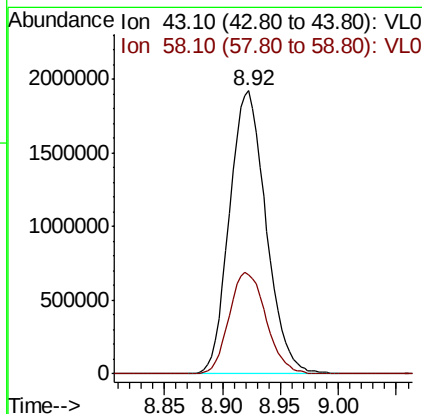
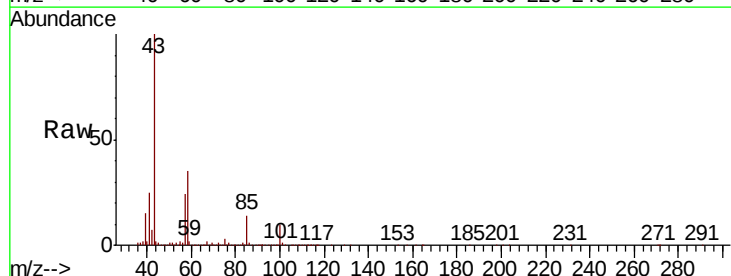
RT: 8.92 min Scan# 2437

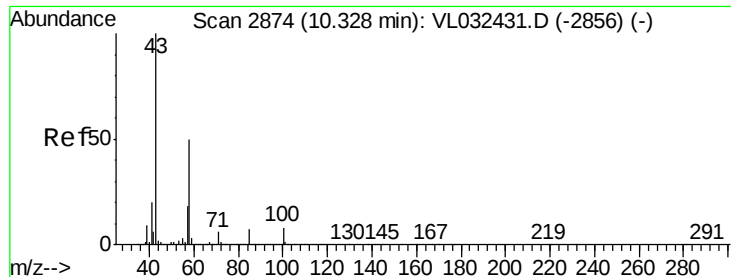
Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion:	43	Resp:	4199164
Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.0	43.4





#51

2-Hexanone

Concen: 12.926 ppbv

RT: 10.32 min Scan# 2872

Delta R.T. -0.01 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 43 Resp: 3347643

Ion Ratio Lower Upper

43 100

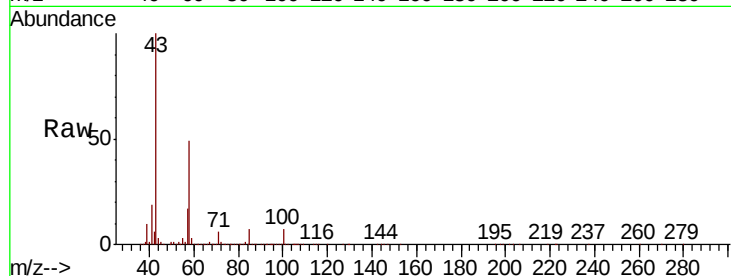
58 48.8 39.2 58.8

98 0.3 0.4 0.6#

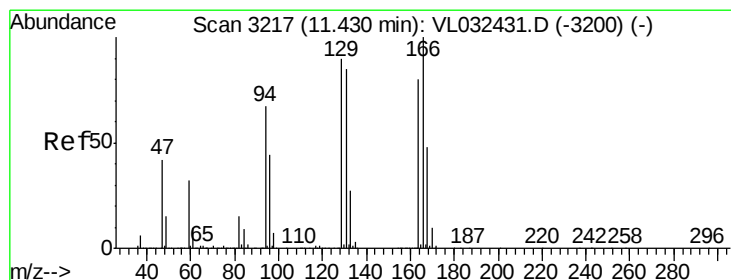
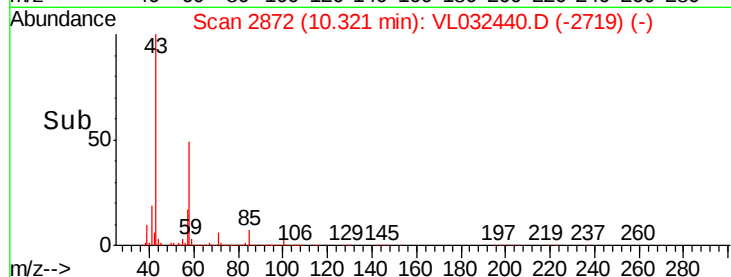
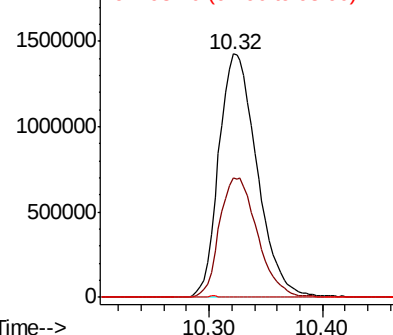
Manual Integrations
APPROVED

apatel

9/4/2018 8:25:54 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: 10.941 ppbv

RT: 11.43 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion: 164 Resp: 1160173

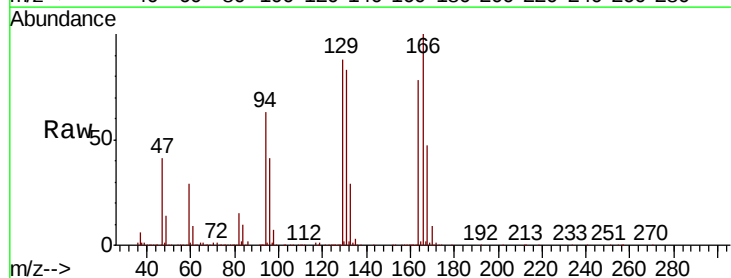
Ion Ratio Lower Upper

164 100

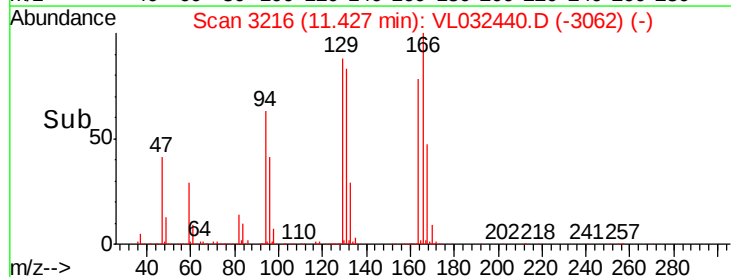
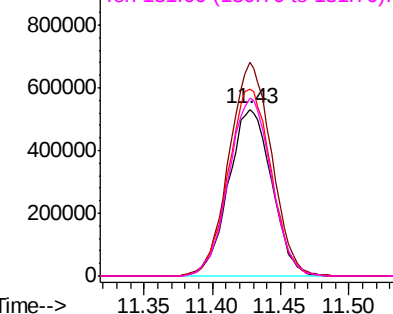
166 128.0 100.6 150.8

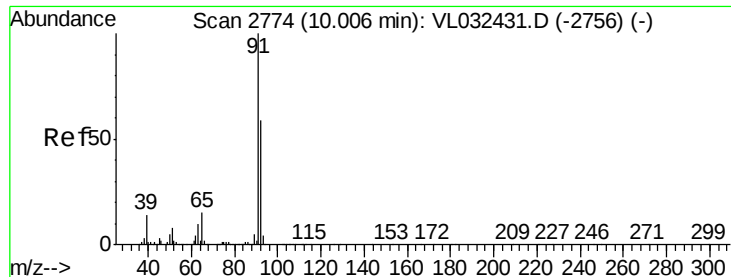
129 112.4 89.9 134.9

131 106.4 85.9 128.9



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: 11.810 ppbv

RT: 10.00 min Scan# 2772

Delta R.T. -0.01 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 91 Resp: 4221470

Ion Ratio Lower Upper

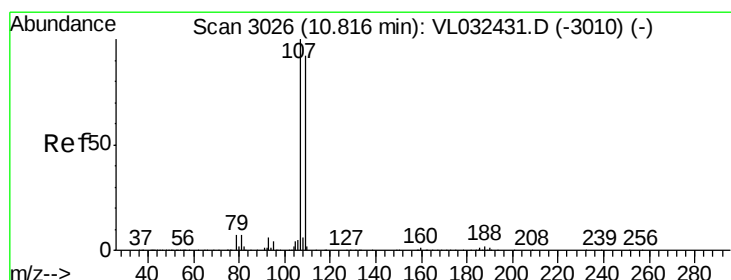
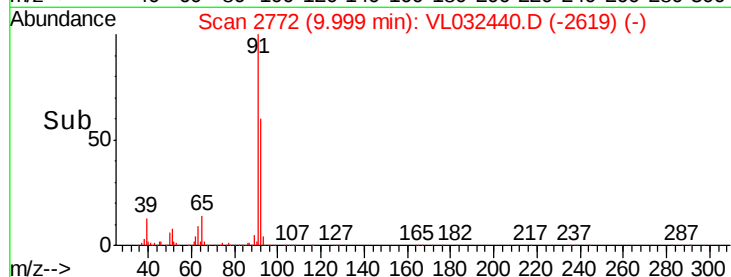
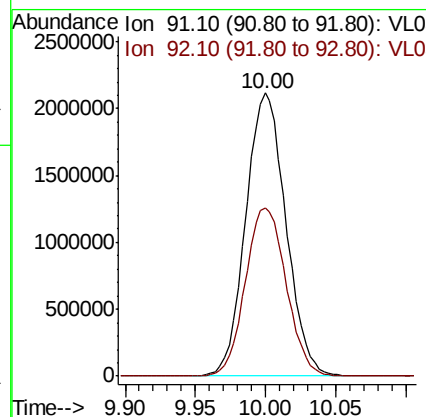
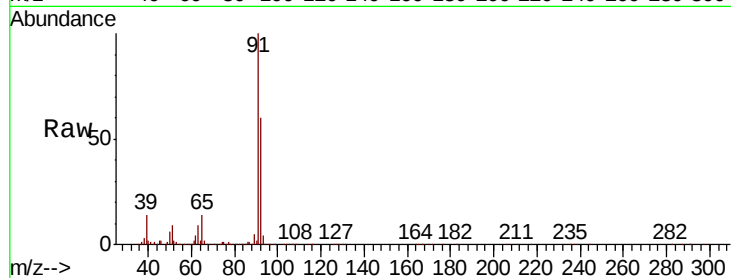
91 100

92 60.6 48.1 72.1

Manual Integrations
APPROVED

apatel

9/4/2018 8:25:54 AM



#54

1,2-Dibromoethane

Concen: 9.981 ppbv

RT: 10.82 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VL032440.D

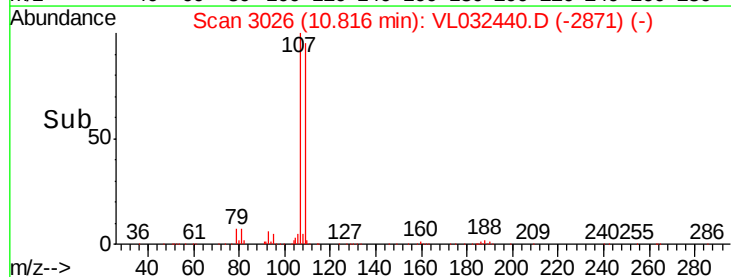
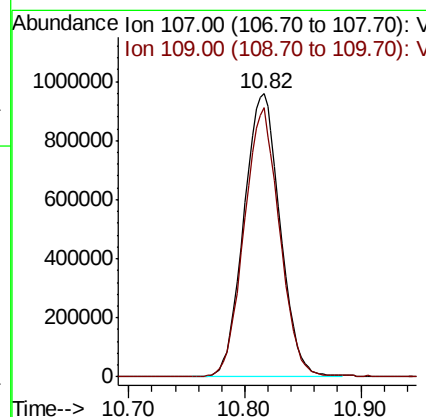
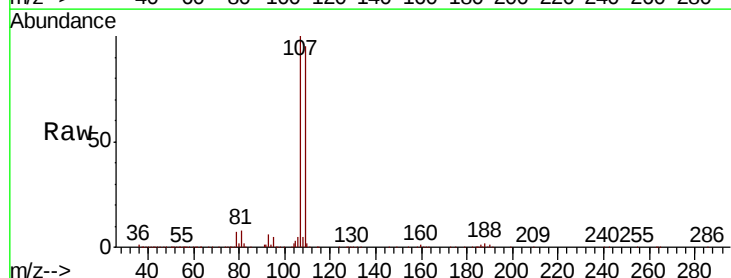
Acq: 31 Aug 2018 14:02

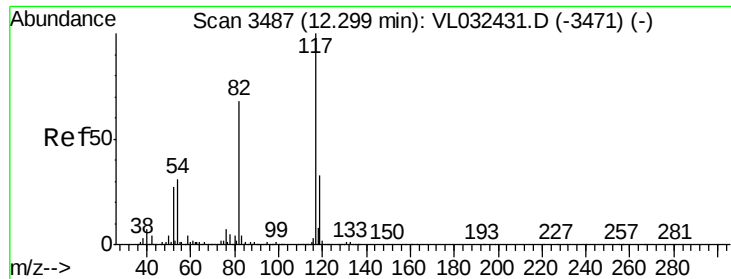
Tgt Ion: 107 Resp: 2084686

Ion Ratio Lower Upper

107 100

109 95.3 73.9 110.9





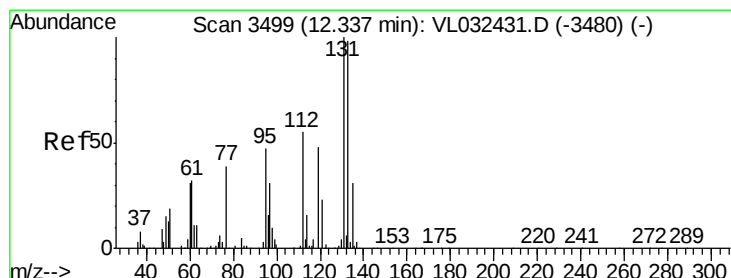
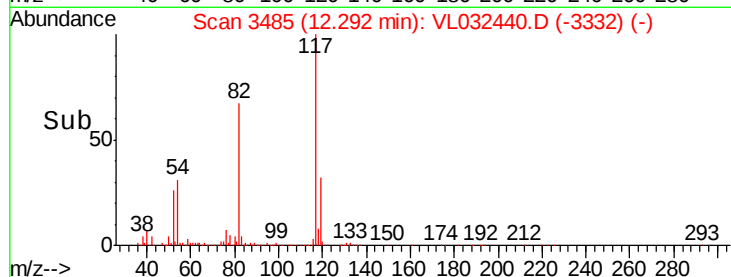
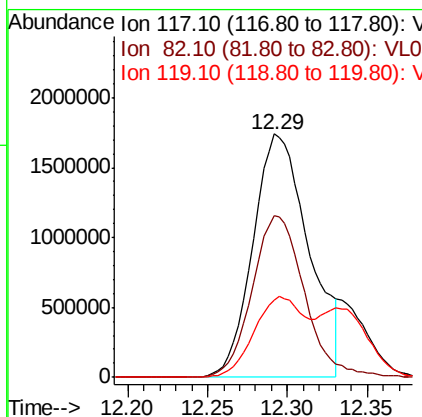
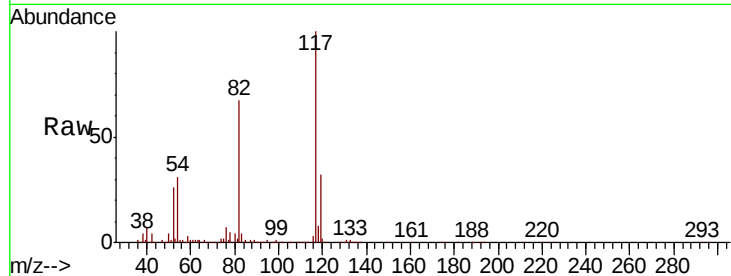
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	62.4	53.0	79.6
119	29.5	45.9	68.9#

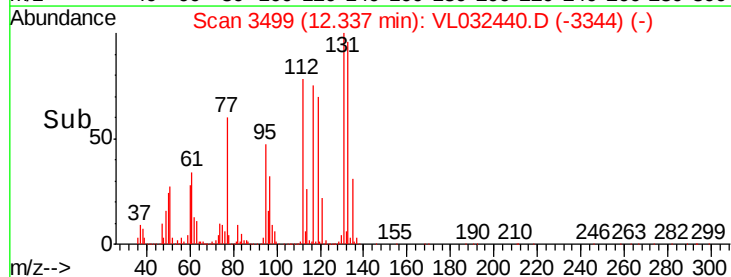
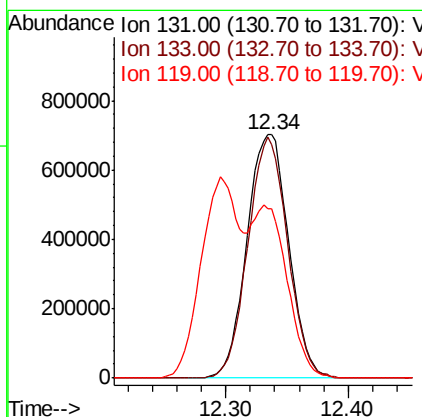
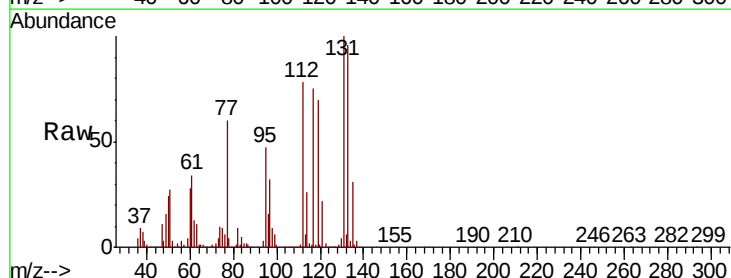
Manual Integrations
APPROVED

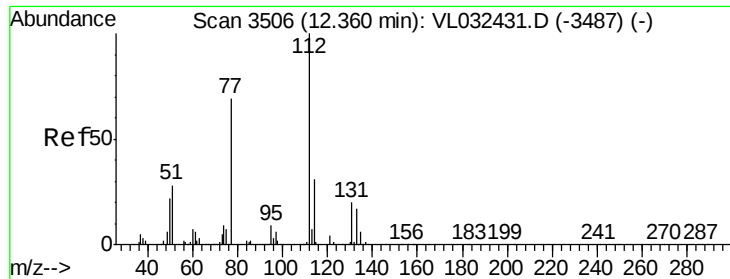
apatel
9/4/2018 8:25:54 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.655 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.7	77.0	115.4
119	64.6	114.2	171.2#





#57

Chlorobenzene

Concen: 8.744 ppbv

RT: 12.36 min Scan# 3505

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 112 Resp: 2968508

Ion Ratio Lower Upper

112 100

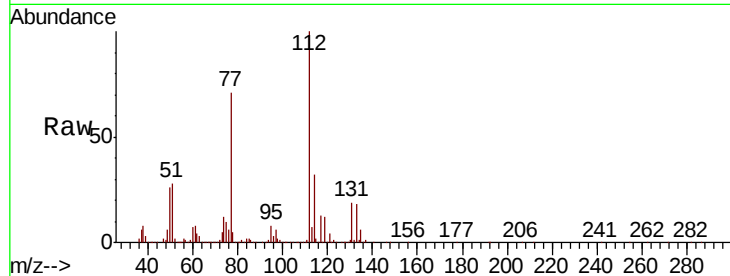
77 70.5 56.1 84.1

114 31.8 27.8 34.0

Manual Integrations
APPROVED

apatel

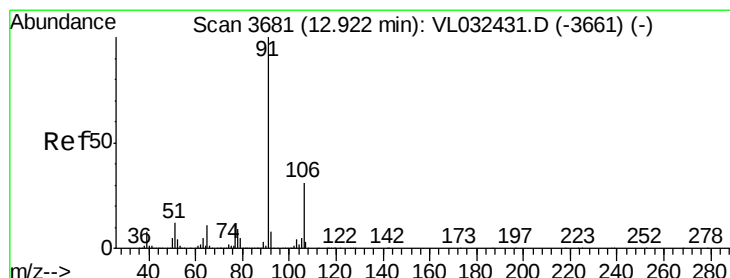
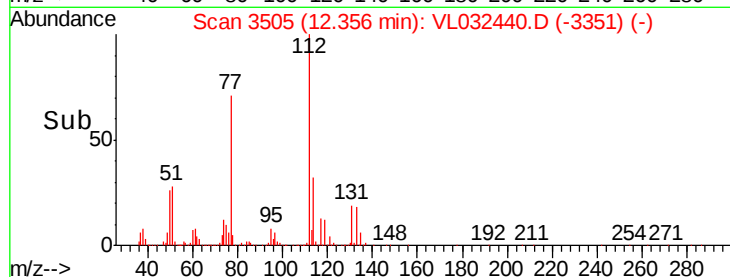
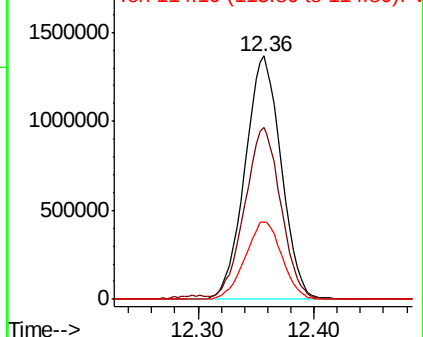
9/4/2018 8:25:54 AM



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: 10.595 ppbv

RT: 12.92 min Scan# 3680

Delta R.T. -0.00 min

Lab File: VL032440.D

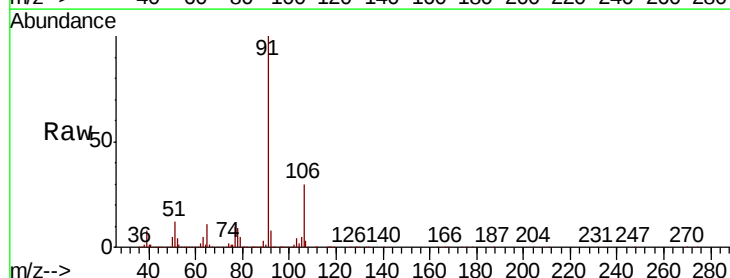
Acq: 31 Aug 2018 14:02

Tgt Ion: 91 Resp: 5385637

Ion Ratio Lower Upper

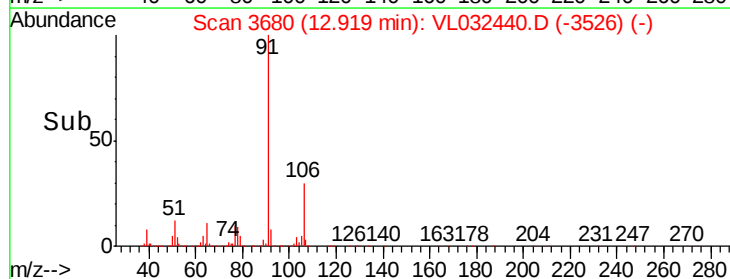
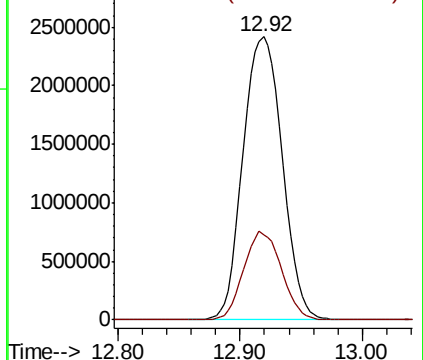
91 100

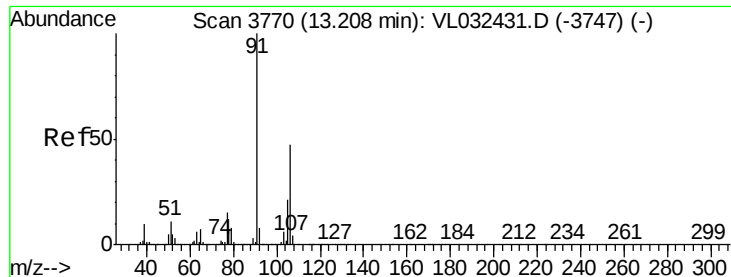
106 30.0 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





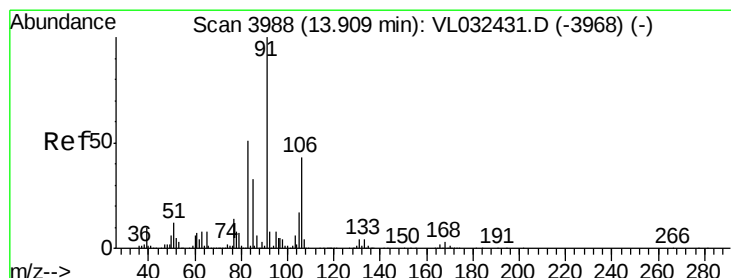
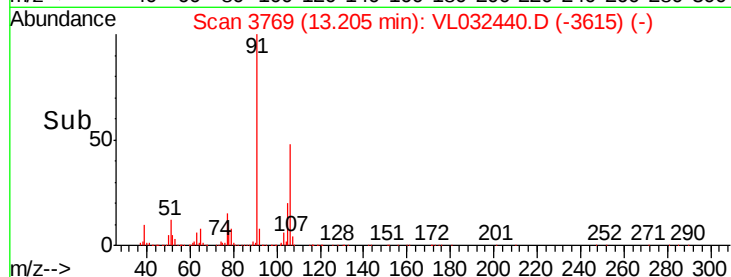
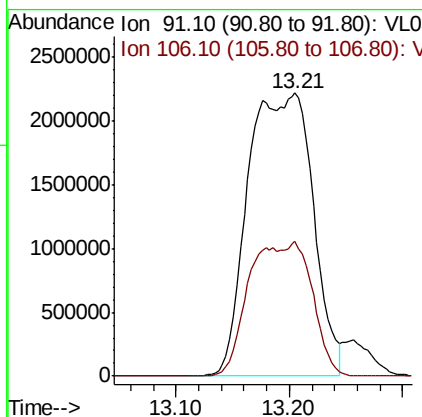
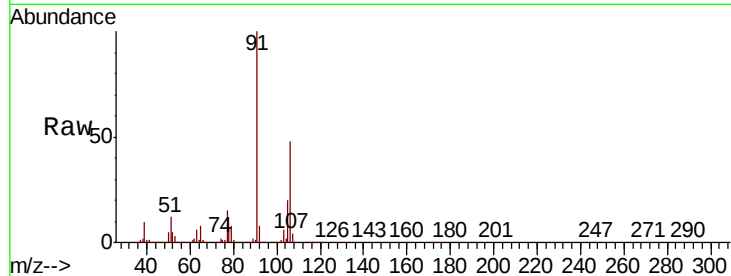
#59
m/p-Xylene
Concen: 19.454 ppbv m
RT: 13.21 min Scan# 3769
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion: 91 Resp: 8816131
Ion Ratio Lower Upper
91 100
106 46.2 36.6 55.0

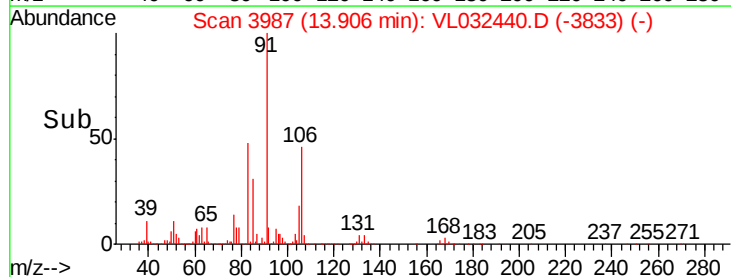
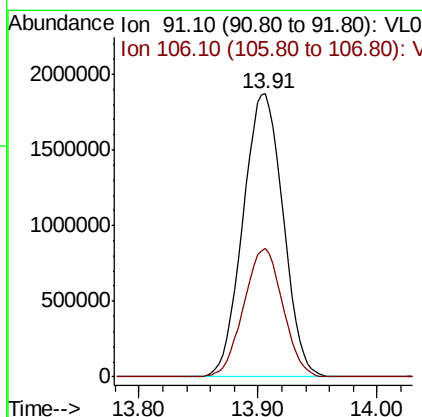
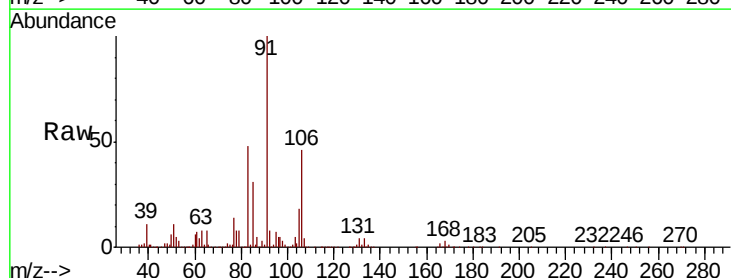
Manual Integrations
APPROVED

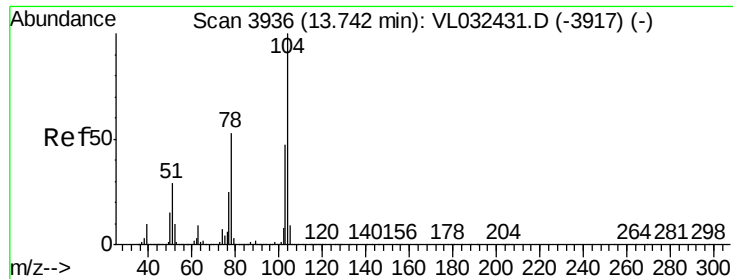
apatel
9/4/2018 8:25:54 AM



#60
o-Xylene
Concen: 9.803 ppbv
RT: 13.91 min Scan# 3987
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion: 91 Resp: 4363917
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.7





#61

Styrene

Concen: 11.448 ppbv

RT: 13.74 min Scan# 3935

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

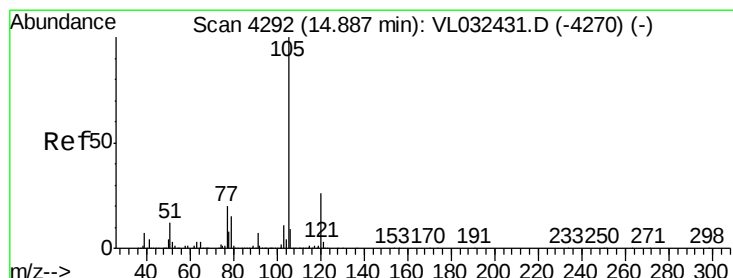
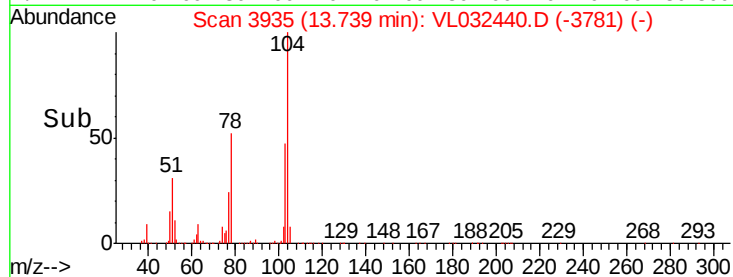
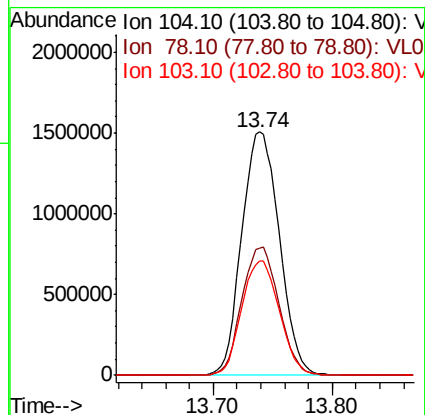
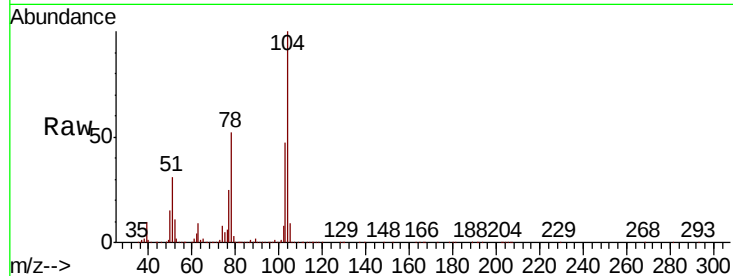
ClientSampleId :

VL0831ABS01

Tgt Ion:	104	Resp:	3299036
Ion Ratio	Lower	Upper	
104	100		
78	52.2	41.8	62.8
103	47.4	38.0	57.0

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:54 AM



#62

Isopropylbenzene

Concen: 9.742 ppbv

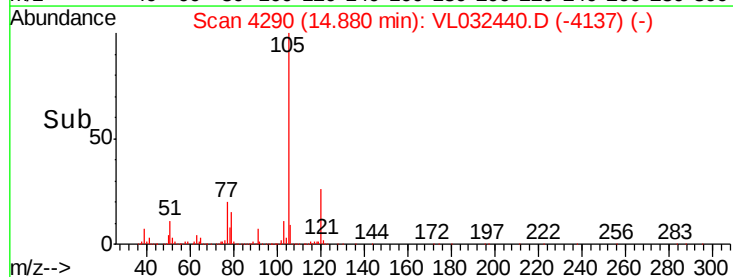
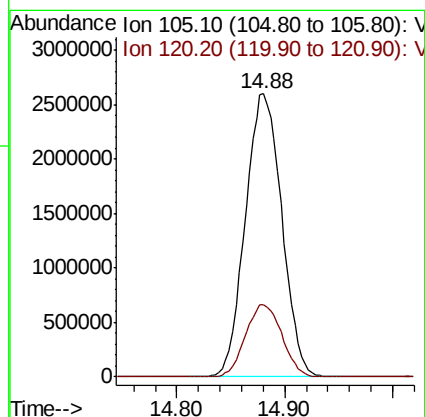
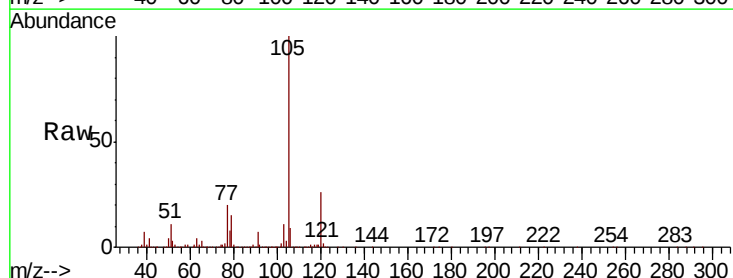
RT: 14.88 min Scan# 4290

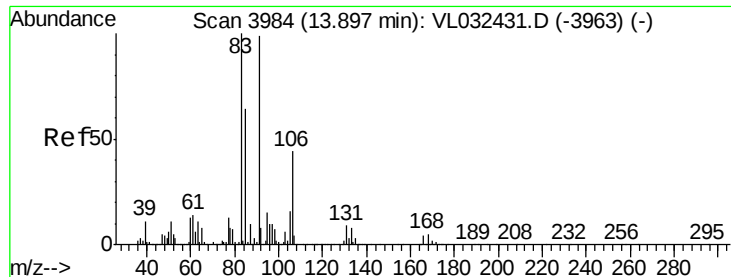
Delta R.T. -0.01 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion:	105	Resp:	6096545
Ion Ratio	Lower	Upper	
105	100		
120	25.6	20.6	31.0





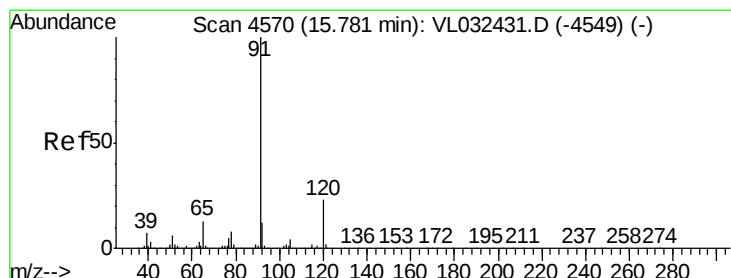
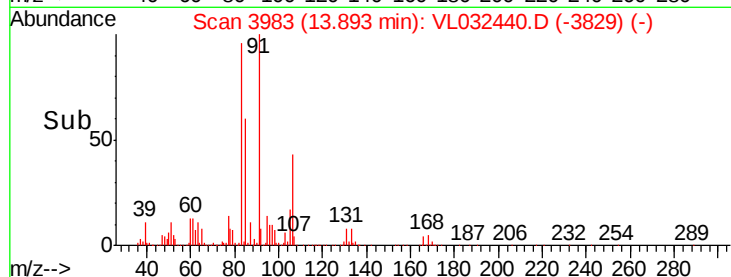
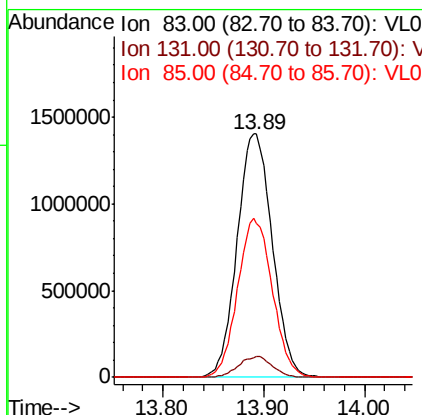
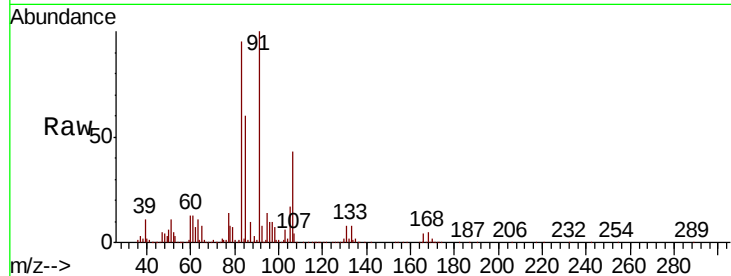
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.521 ppbv
 RT: 13.89 min Scan# 3983
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion: 83 Resp: 3391535
 Ion Ratio Lower Upper
 83 100
 131 8.4 4.3 12.8
 85 64.4 32.3 96.8

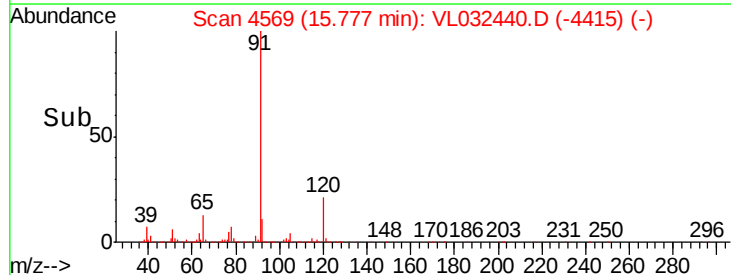
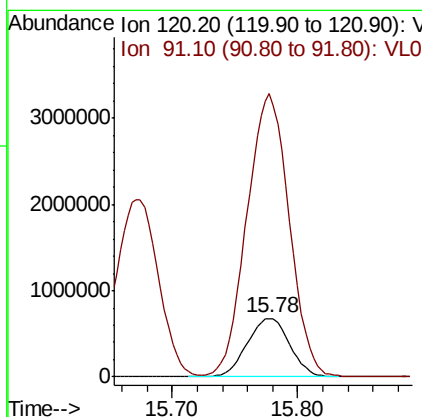
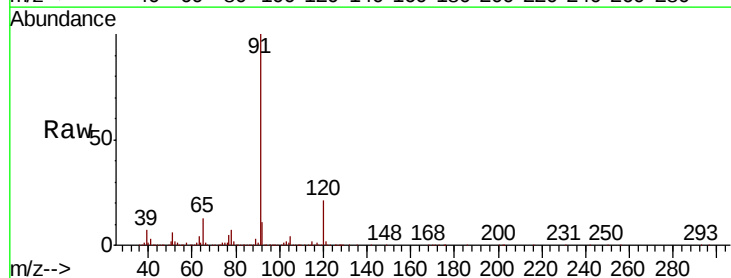
Manual Integrations
 APPROVED

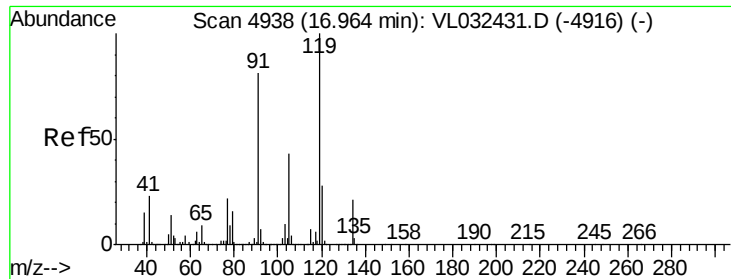
apatel
 9/4/2018 8:25:54 AM



#64
 n-propylbenzene
 Concen: 9.770 ppbv
 RT: 15.78 min Scan# 4569
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion: 120 Resp: 1598294
 Ion Ratio Lower Upper
 120 100
 91 482.1 381.8 572.6





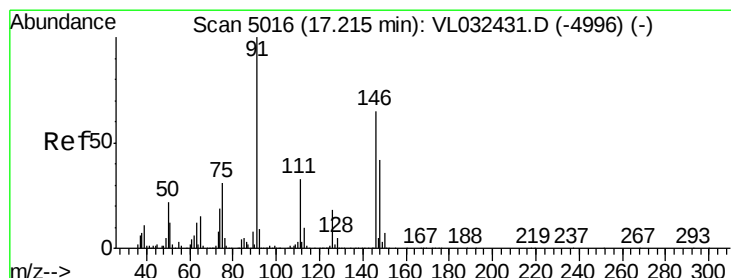
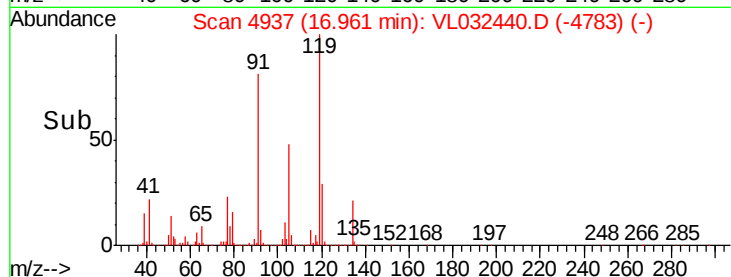
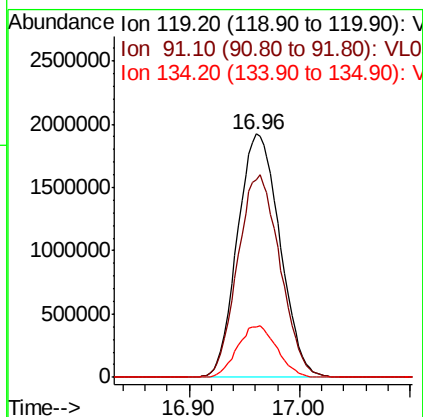
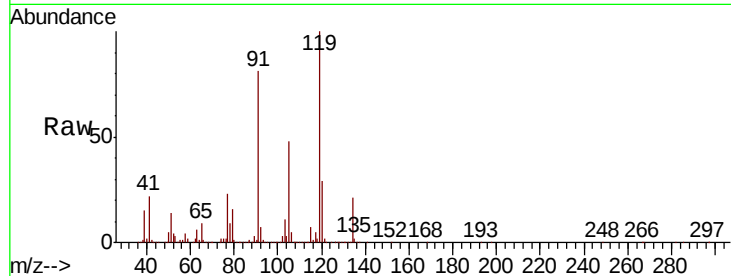
#65
tert-Butylbenzene
Concen: 9.503 ppbv
RT: 16.96 min Scan# 4937
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
119	100		
91	83.4	66.5	99.7
134	19.8	16.0	24.0

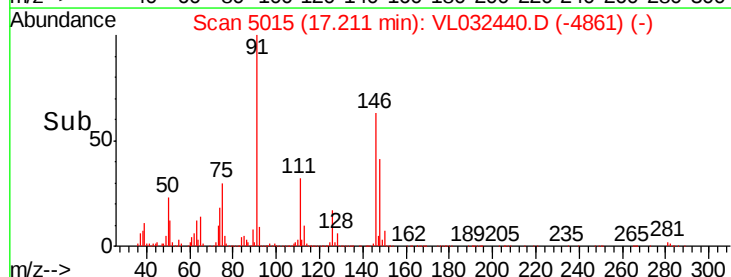
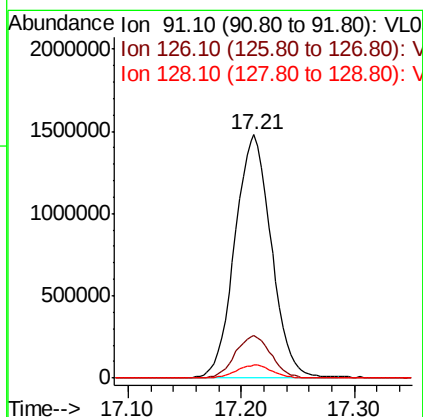
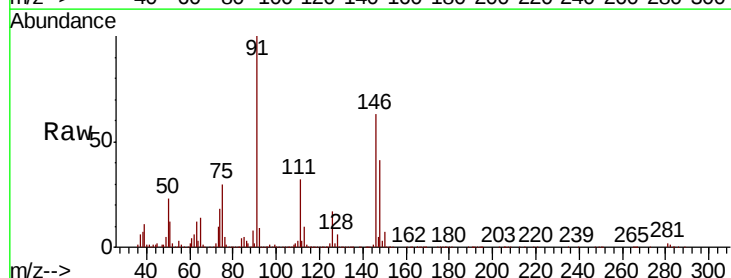
Manual Integrations
APPROVED

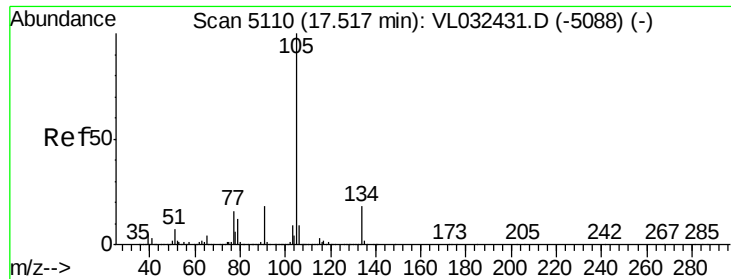
apatel
9/4/2018 8:25:54 AM



#66
Benzyl Chloride
Concen: 11.034 ppbv
RT: 17.21 min Scan# 5015
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.4	13.8	20.8
128	5.4	4.4	6.6





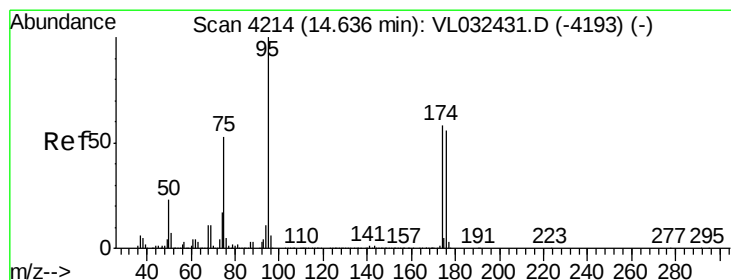
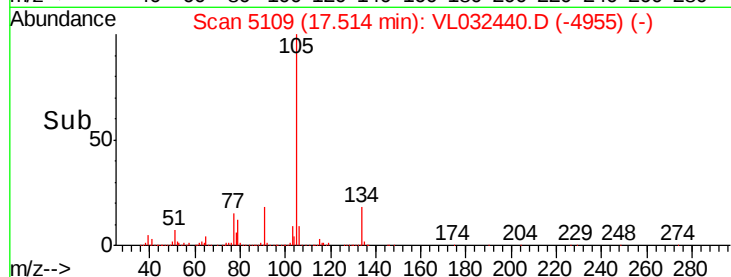
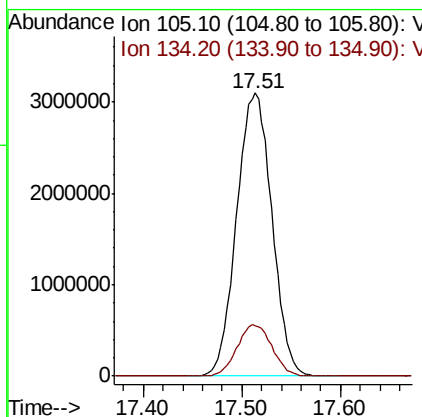
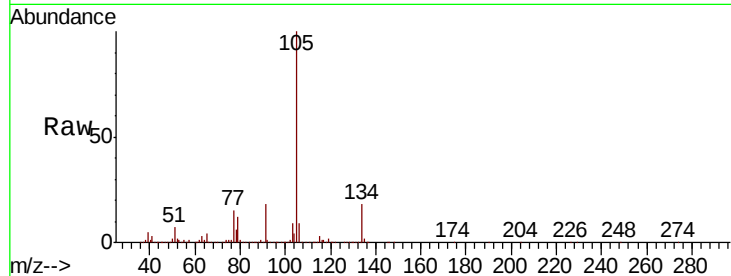
#67
 sec-Butylbenzene
 Concen: 9.463 ppbv
 RT: 17.51 min Scan# 5109
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion: 105 Resp: 7674169
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.4 21.6

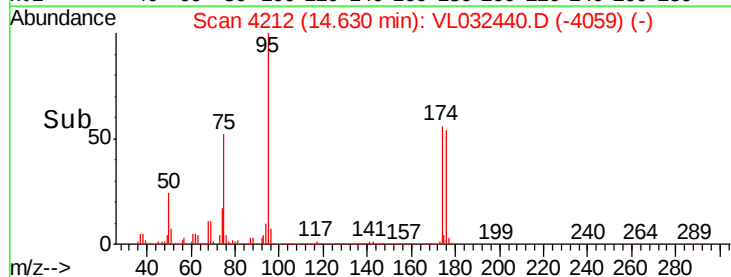
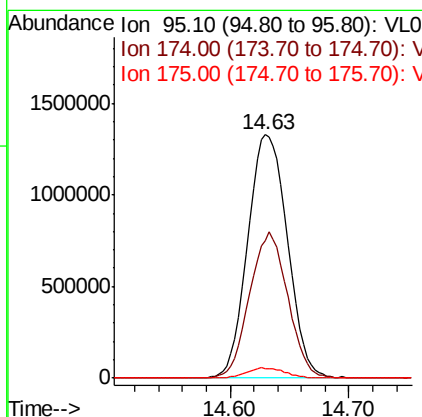
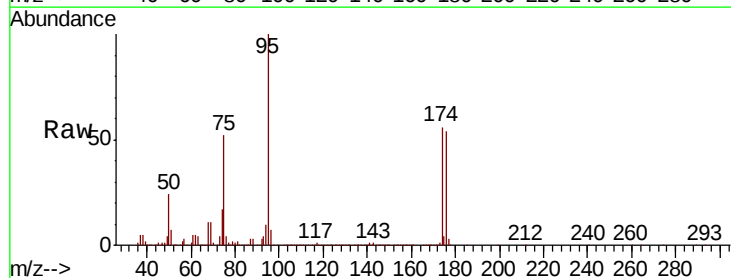
Manual Integrations
 APPROVED

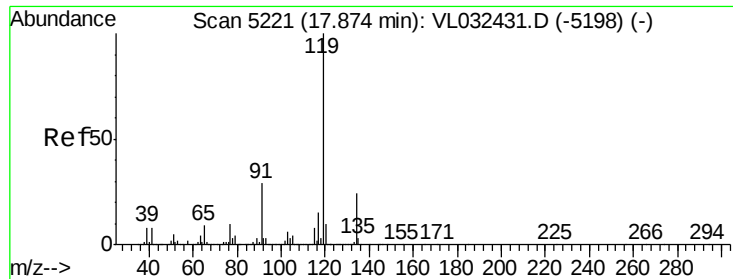
apatel
 9/4/2018 8:25:54 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.735 ppbv
 RT: 14.63 min Scan# 4212
 Delta R.T. -0.01 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion: 95 Resp: 3070083
 Ion Ratio Lower Upper
 95 100
 174 57.8 46.3 69.5
 175 4.1 3.4 5.0





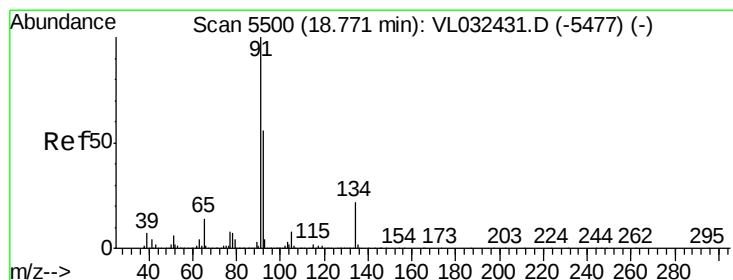
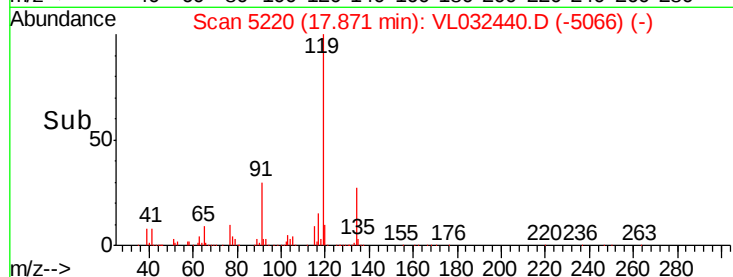
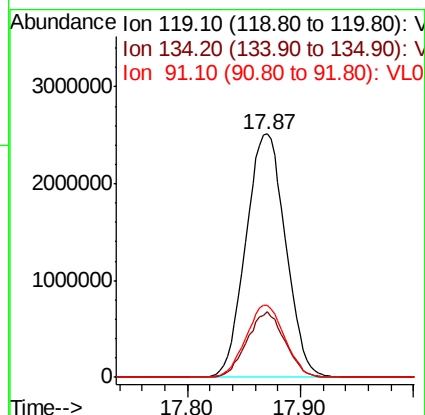
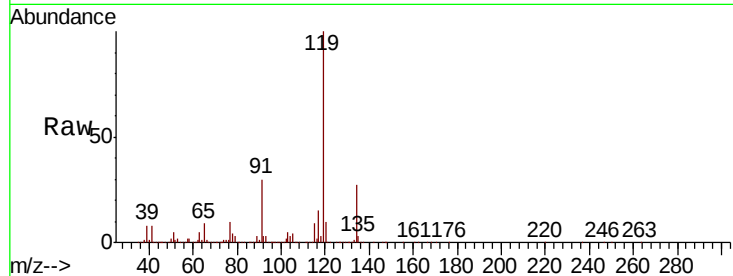
#69
p-Isopropyltoluene
Concen: 9.754 ppbv
RT: 17.87 min Scan# 5220
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.4	30.6
91	29.0	23.4	35.2

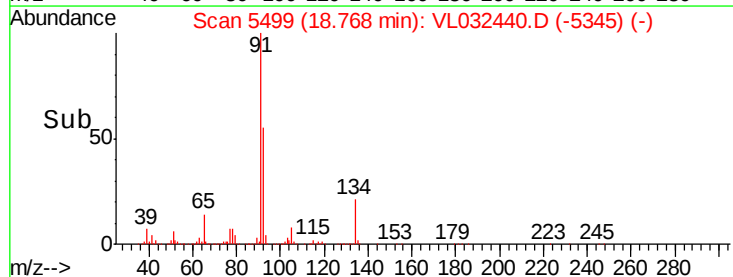
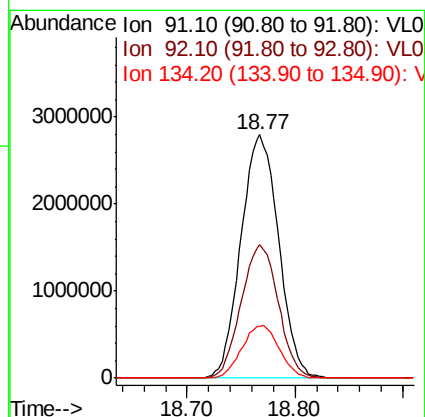
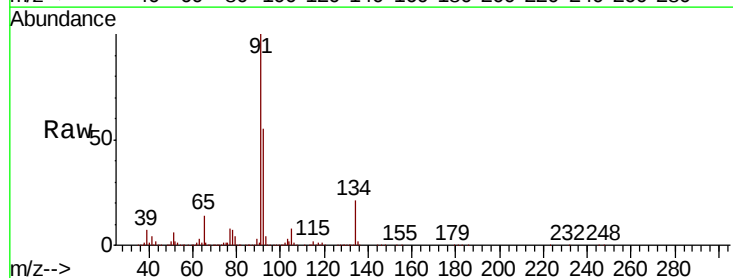
Manual Integrations
APPROVED

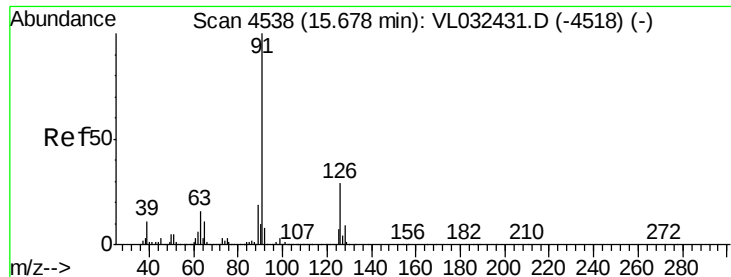
apatel
9/4/2018 8:25:54 AM



#70
n-Butylbenzene
Concen: 9.531 ppbv
RT: 18.77 min Scan# 5499
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.8	65.8
134	21.6	17.4	26.0





#71

2-Chlorotoluene

Concen: 10.059 ppbv

RT: 15.67 min Scan# 4536

Delta R.T. -0.01 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

ClientSampleId :

VL0831ABS01

Tgt Ion: 91 Resp: 4809165

Ion Ratio Lower Upper

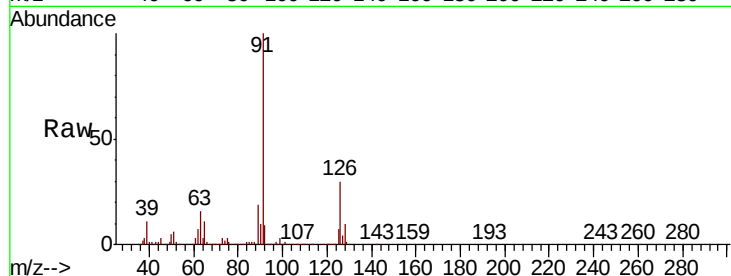
91 100

126 29.5 11.9 47.7

Manual Integrations
APPROVED

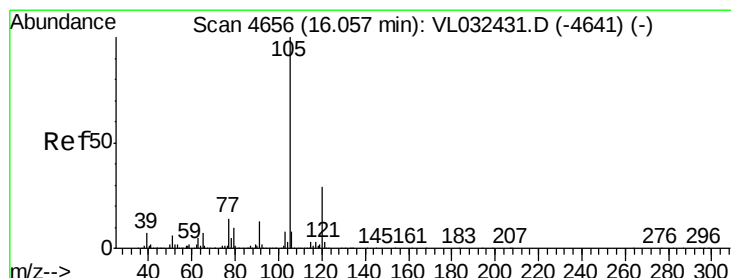
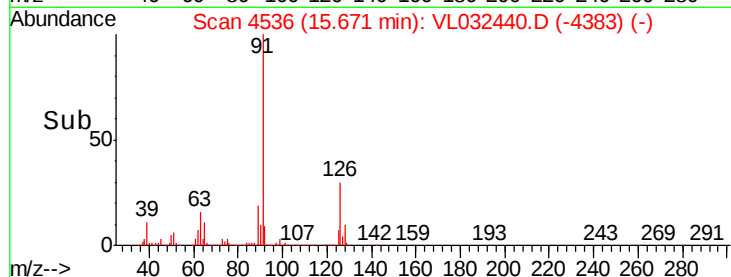
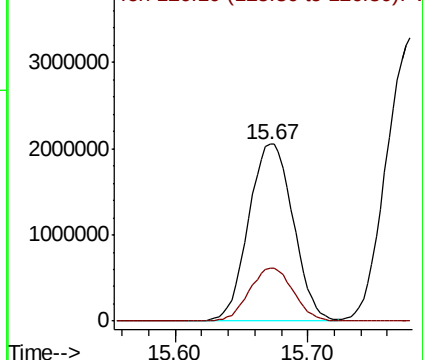
apatel

9/4/2018 8:25:54 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.513 ppbv

RT: 16.05 min Scan# 4655

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion: 105 Resp: 5109214

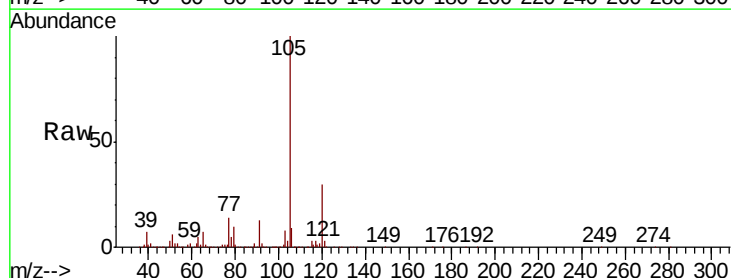
Ion Ratio Lower Upper

105 100

120 29.2 23.5 35.3

91 12.7 10.2 15.2

77 13.9 11.1 16.7

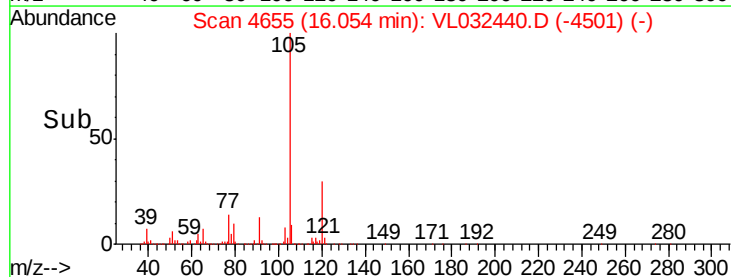
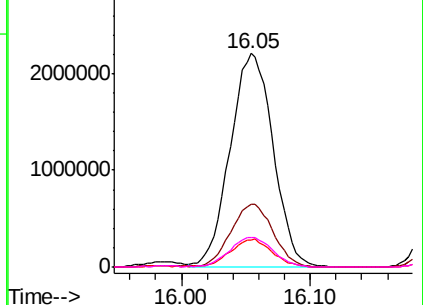


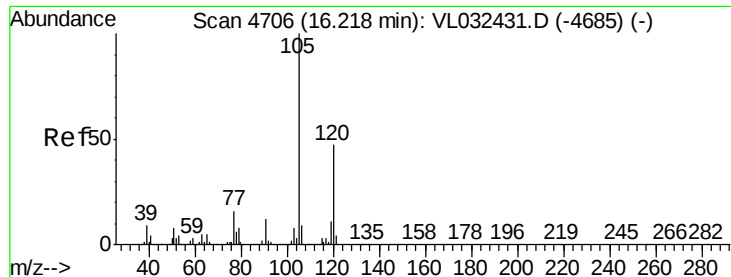
Abundance Ion 105.10 (104.80 to 105.80): V

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





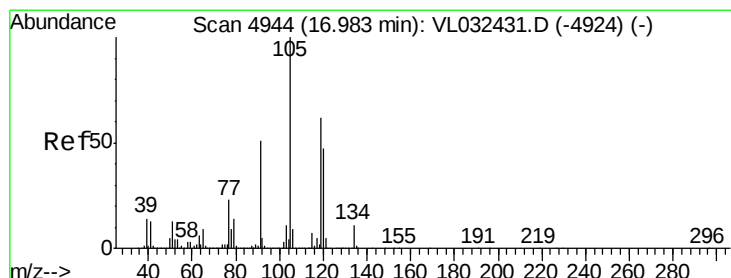
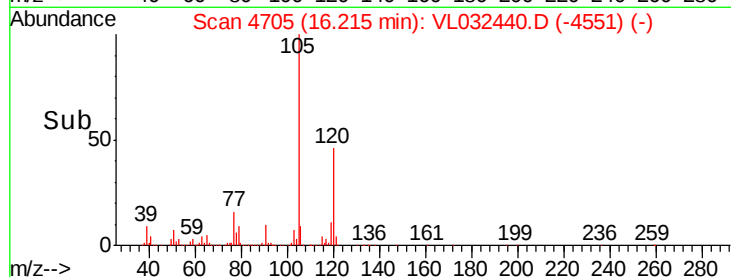
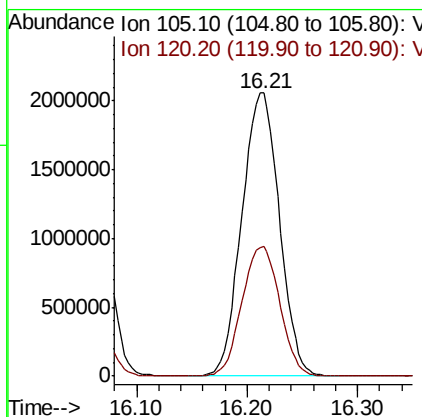
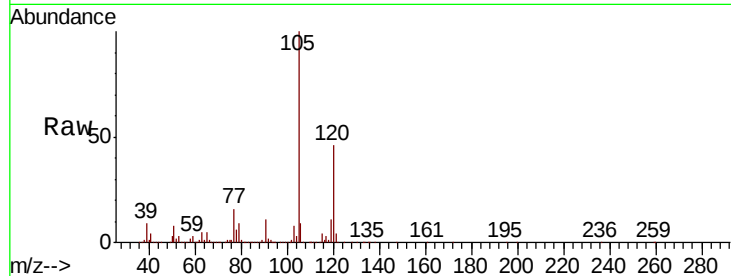
#73
 1,3,5-Trimethylbenzene
 Concen: 9.933 ppbv
 RT: 16.21 min Scan# 4705
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion:105 Resp: 4836512
 Ion Ratio Lower Upper
 105 100
 120 46.0 37.9 56.9

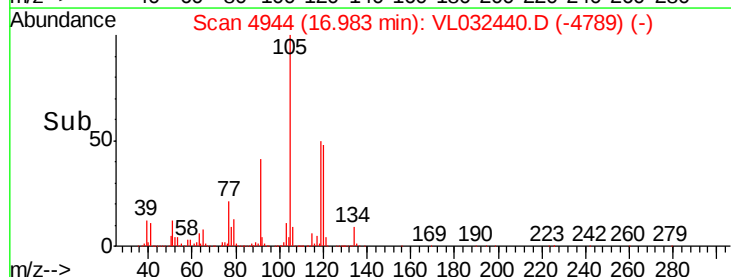
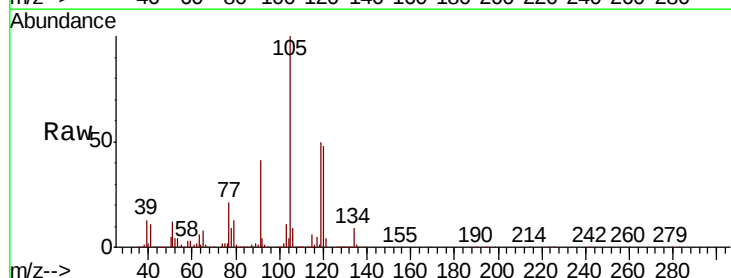
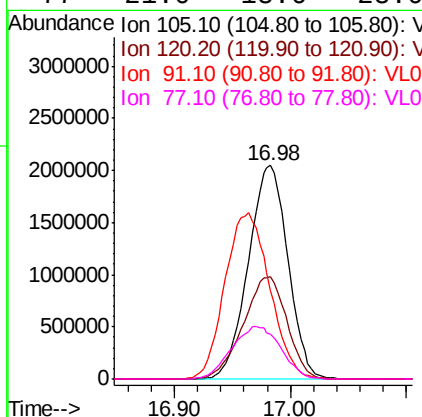
Manual Integrations
 APPROVED

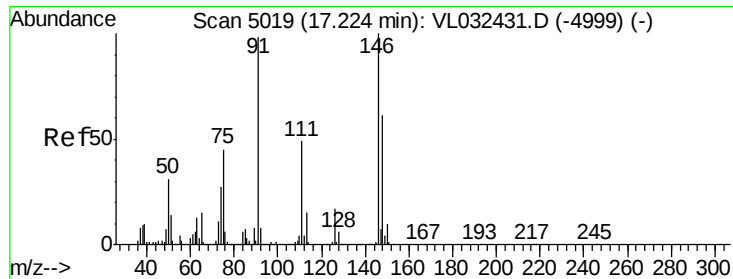
apatel
 9/4/2018 8:25:54 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.123 ppbv
 RT: 16.98 min Scan# 4944
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion:105 Resp: 4856303
 Ion Ratio Lower Upper
 105 100
 120 48.0 37.8 56.8
 91 41.2 41.4 62.0#
 77 21.0 18.6 28.0





#75

1,3-Dichlorobenzene

Concen: 8.778 ppbv

RT: 17.22 min Scan# 5018

Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Instrument :

MSVOA_L

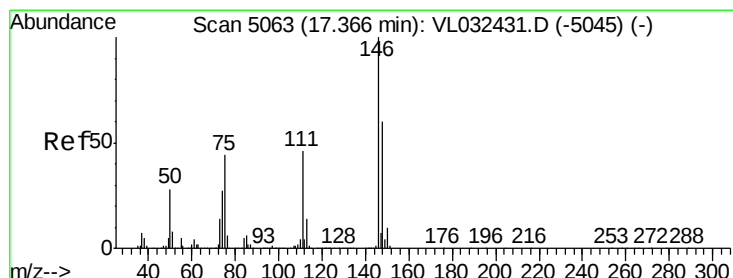
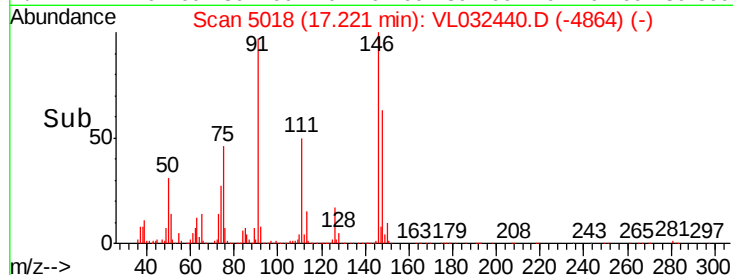
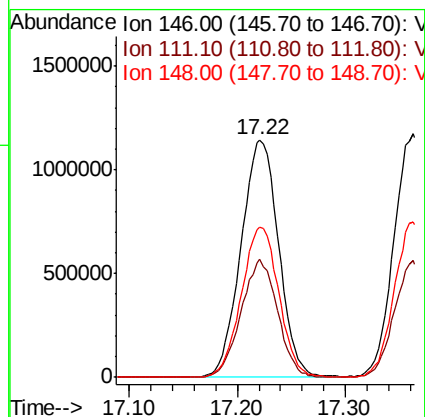
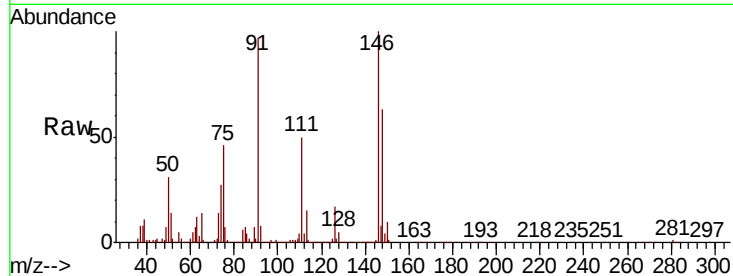
ClientSampleId :

VL0831ABS01

Tgt Ion:	146	Resp:	2772466
Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.5	73.5
148	63.3	32.0	96.2

Manual Integrations
APPROVED

apatel
9/4/2018 8:25:54 AM



#76

1,4-Dichlorobenzene

Concen: 9.549 ppbv

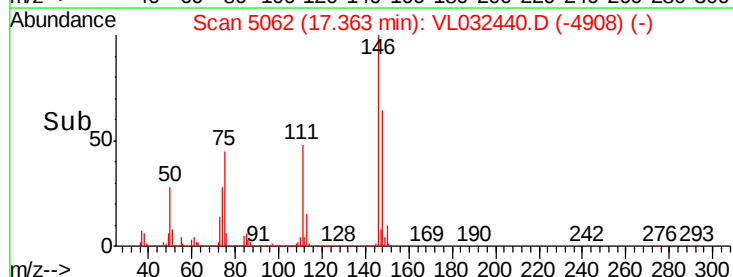
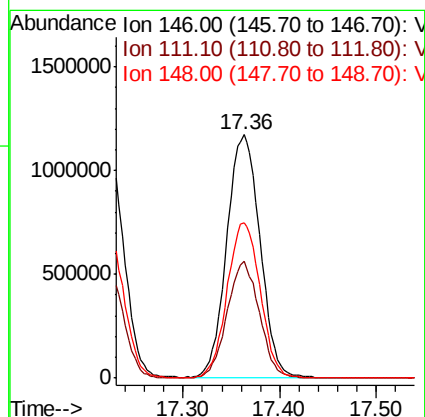
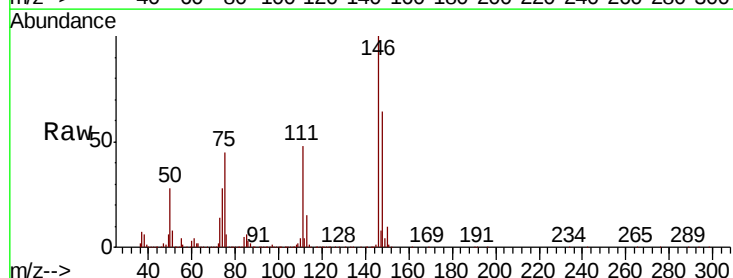
RT: 17.36 min Scan# 5062

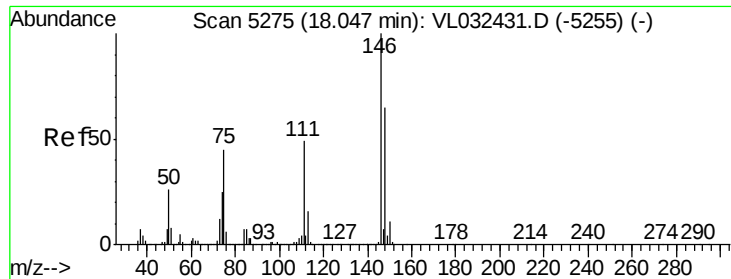
Delta R.T. -0.00 min

Lab File: VL032440.D

Acq: 31 Aug 2018 14:02

Tgt Ion:	146	Resp:	2798656
Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.4	70.2
148	63.9	32.0	96.2





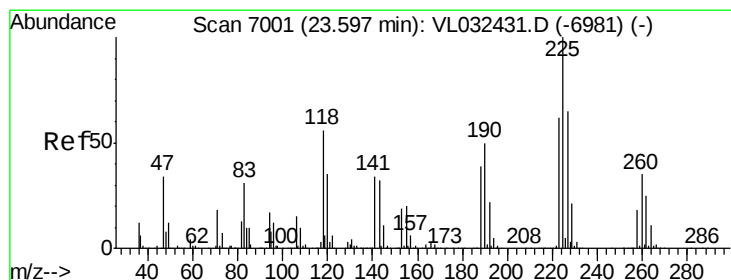
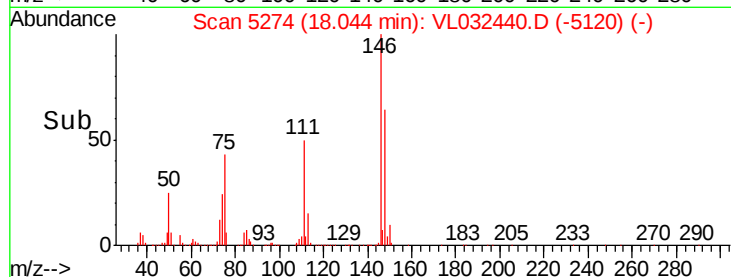
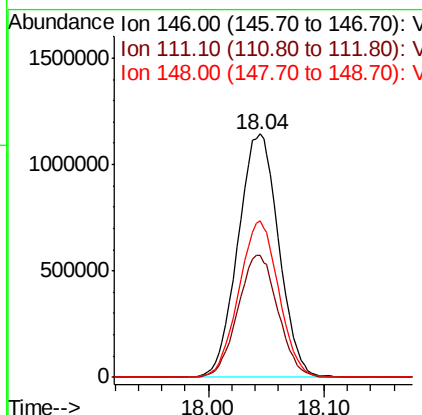
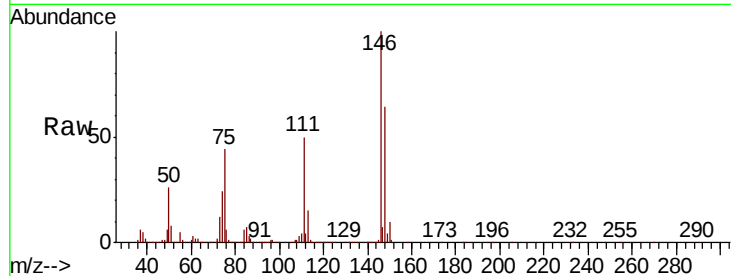
#77
 1,2-Dichlorobenzene
 Concen: 9.130 ppbv
 RT: 18.04 min Scan# 5274
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion:146 Resp: 2782353
 Ion Ratio Lower Upper
 146 100
 111 49.7 24.9 74.8
 148 63.1 32.0 96.0

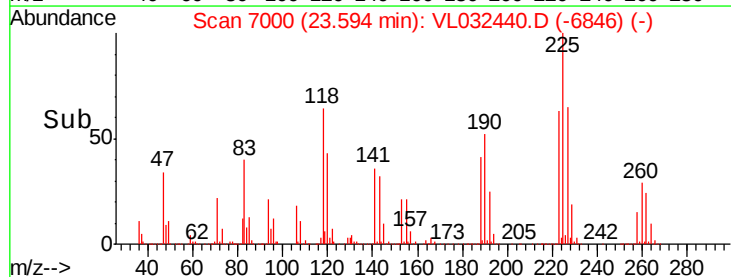
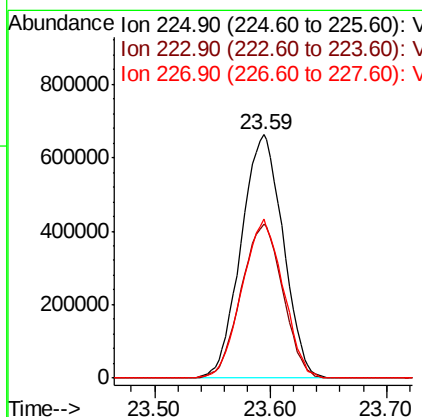
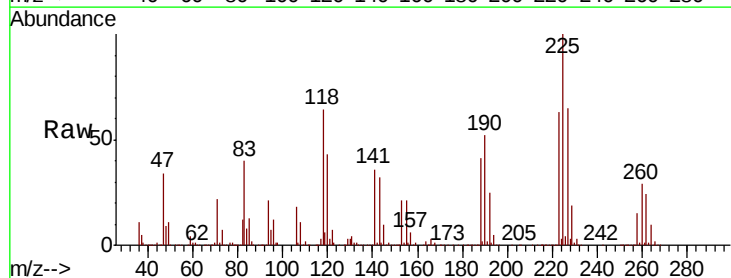
Manual Integrations
 APPROVED

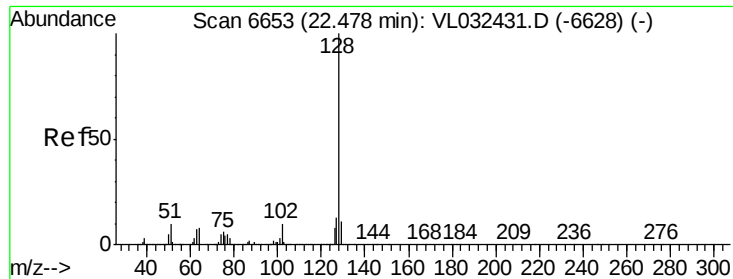
apatel
 9/4/2018 8:25:54 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 14.638 ppbv
 RT: 23.59 min Scan# 7000
 Delta R.T. -0.00 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Tgt Ion:225 Resp: 1666751
 Ion Ratio Lower Upper
 225 100
 223 62.9 50.6 76.0
 227 64.0 51.2 76.8





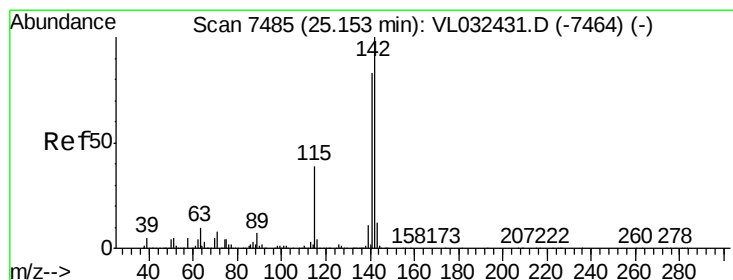
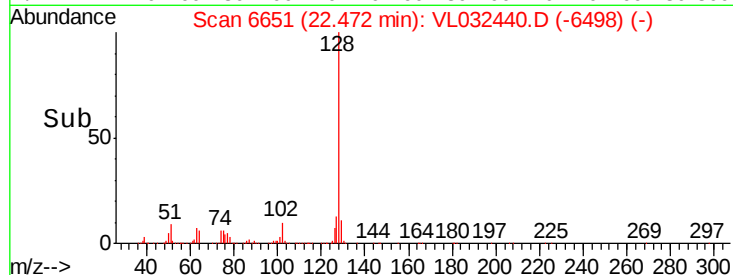
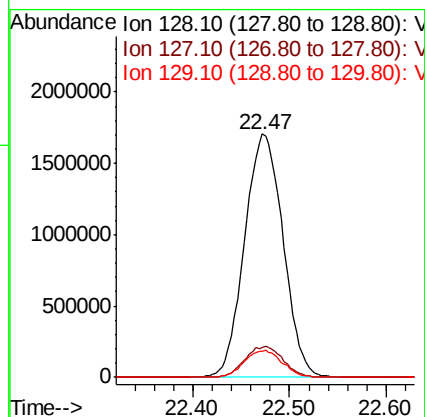
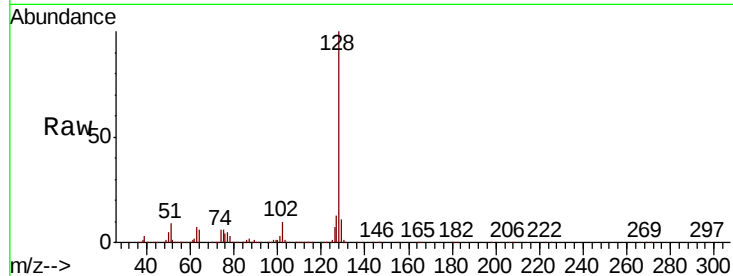
#79
Naphthalene
Concen: 10.891 ppbv
RT: 22.47 min Scan# 6651
Delta R.T. -0.01 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Instrument :
MSVOA_L
ClientSampleId :
VL0831ABS01

Tgt Ion:128 Resp: 4714524
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.2
129 10.9 8.5 12.7

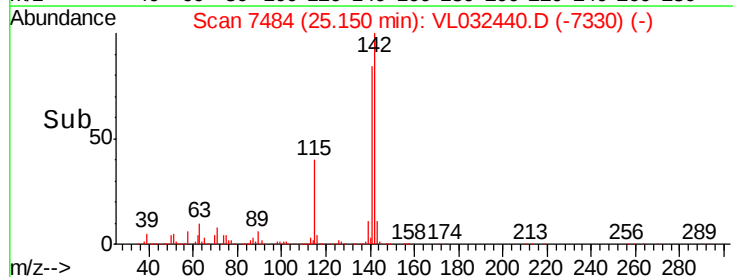
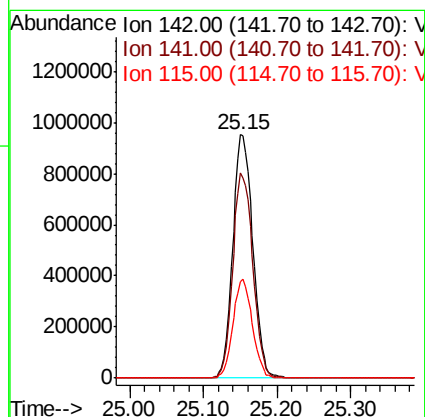
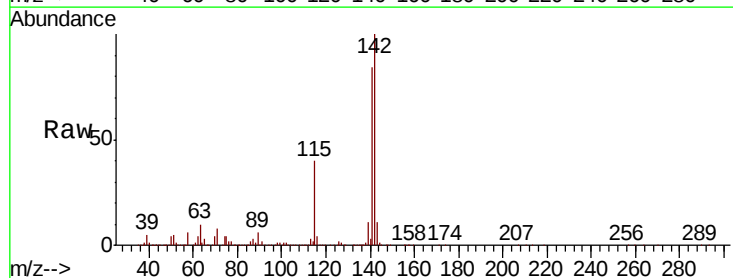
Manual Integrations
APPROVED

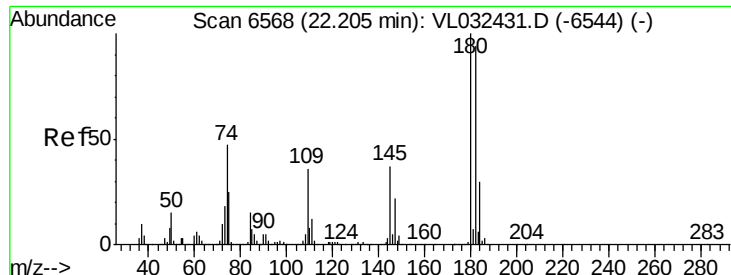
apatel
9/4/2018 8:25:54 AM



#80
Naphthalene, 2-methyl-
Concen: 15.616 ppbv
RT: 25.15 min Scan# 7484
Delta R.T. -0.00 min
Lab File: VL032440.D
Acq: 31 Aug 2018 14:02

Tgt Ion:142 Resp: 1798626
Ion Ratio Lower Upper
142 100
141 84.4 67.0 100.6
115 39.5 31.3 46.9





#81
 1,2,4-Trichlorobenzene
 Concen: 10.208 ppbv
 RT: 22.20 min Scan# 6565
 Delta R.T. -0.01 min
 Lab File: VL032440.D
 Acq: 31 Aug 2018 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0831ABS01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.1	114.1
184	30.3	23.8	35.8

Manual Integrations
 APPROVED

apatel
 9/4/2018 8:25:54 AM

