

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032654.D
 Acq On : 18 Oct 2018 16:47
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:04:21 PM

Quant Time: Oct 18 17:17:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 17:17:17 2018
 QLast Update : Thu Oct 18 11:41:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1681042	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4224410	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4275144	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	3119050	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	262339	1.582	ppbv	98
3) Chlorodifluoromethane	3.02	51	281111	1.999	ppbv	97
4) Chloromethane	3.18	50	158005	2.058	ppbv	97
5) Vinyl Chloride	3.30	62	156525	2.023	ppbv	100
6) Bromomethane	3.53	94	99542	2.037	ppbv	97
7) Chloroethane	3.61	64	60360	1.993	ppbv	96
8) Dichlorotetrafluoroethane	3.23	85	382487	2.018	ppbv	94
9) Propene	3.05	41	113901	2.209	ppbv	98
10) Heptane	8.26	43	453393	2.348	ppbv	100
11) Trichlorofluoromethane	4.02	101	493507	2.285	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	411468	2.602	ppbv	92
13) Ethanol	3.66	45	34471m	2.160	ppbv	
14) Bromoethene	3.80	108	129547	2.239	ppbv	100
15) Acetone	3.92	43	356765	2.385	ppbv	99
16) 1,3-Butadiene	3.37	39	122425	2.210	ppbv	85
17) tert-Butyl alcohol	4.38	59	120833	8.850	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	189340	2.655	ppbv	92
19) Isopropyl Alcohol	4.04	45	243634	2.306	ppbv	99
20) Methylene Chloride	4.42	84	175140	2.613	ppbv	93
21) Allyl Chloride	4.49	41	295082	2.628	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	174191	2.115	ppbv	86
23) Vinyl Acetate	5.17	43	596387	2.506	ppbv	100
24) 1,1-Dichloroethane	5.10	63	467572	2.119	ppbv	100
25) Ethyl Acetate	5.78	43	756995	2.139	ppbv	99
26) Hexane	5.79	57	368656	2.312	ppbv	96
27) Carbon Disulfide	4.63	76	448991	2.330	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	550929	2.750	ppbv	99
29) Chloroform	5.86	83	593226	2.123	ppbv	99
30) Cyclohexane	7.26	84	292896	2.329	ppbv	88
31) cis-1,2-Dichloroethene	5.65	61	353557	2.308	ppbv	96
32) 1,1,1-Trichloroethane	6.63	97	580213	2.081	ppbv	99
34) 2-Butanone	5.35	43	493201	2.104	ppbv	99
35) Carbon Tetrachloride	7.15	117	616107	1.882	ppbv	98
36) Benzene	7.02	78	740023	2.161	ppbv	97
37) 1,2-Dichloroethane	6.43	62	449427	1.914	ppbv	98
38) Trichloroethene	7.98	130	279757	2.173	ppbv	97
39) 1,2-Dichloropropane	7.75	63	273812	1.966	ppbv	97
40) 1,4-Dioxane	7.99	88	89878	1.868	ppbv #	87
41) Tetrahydrofuran	6.17	42	269919	2.170	ppbv	99
42) Bromodichloromethane	7.93	83	617496	1.929	ppbv	95
43) Methyl Methacrylate	8.16	69	271114	2.042	ppbv	98

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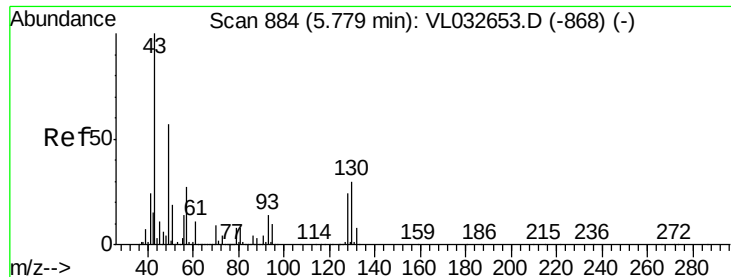
Manual Integrations
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Quant Time: Oct 18 17:17:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	1277341	2.104	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	355383	2.047	ppbv	93
46) cis-1,3-Dichloropropene	8.85	75	405931	2.054	ppbv	94
47) 1,1,2-Trichloroethane	9.63	97	334224	2.008	ppbv	96
48) Dibromochloromethane	10.47	129	558477	1.975	ppbv	100
49) Bromoform	13.22	173	440726	2.063	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	729882	2.115	ppbv	99
51) 2-Hexanone	10.30	43	562876	2.074	ppbv #	97
52) Tetrachloroethene	11.39	164	269552m	2.391	ppbv	
53) Toluene	9.96	91	872262	2.234	ppbv	99
54) 1,2-Dibromoethane	10.77	107	436519	1.831	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.30	131	390623	1.990	ppbv #	1
57) Chlorobenzene	12.32	112	655150	2.015	ppbv	95
58) Ethyl Benzene	12.88	91	1096606	2.284	ppbv	98
59) m/p-Xylene	13.14	91	1926416m	4.495	ppbv	
60) o-Xylene	13.87	91	934753	2.189	ppbv	98
61) Styrene	13.70	104	640636	2.475	ppbv	98
62) Isopropylbenzene	14.84	105	1294660	2.128	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.85	83	676676	1.795	ppbv	98
64) n-propylbenzene	15.74	120	323538	2.099	ppbv	97
65) tert-Butylbenzene	16.92	119	1141211	2.211	ppbv	99
66) Benzyl Chloride	17.17	91	567982	1.951	ppbv	99
67) sec-Butylbenzene	17.47	105	1613953	2.077	ppbv	99
69) p-Isopropyltoluene	17.83	119	1304454	2.218	ppbv	99
70) n-Butylbenzene	18.73	91	1367463	2.111	ppbv	98
71) 2-Chlorotoluene	15.63	91	935883	2.081	ppbv	98
72) 4-Ethyltoluene	16.02	105	1012711	2.194	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	953592	2.077	ppbv	96
74) 1,2,4-Trimethylbenzene	16.94	105	1034614	2.047	ppbv #	91
75) 1,3-Dichlorobenzene	17.18	146	586162	1.995	ppbv	98
76) 1,4-Dichlorobenzene	17.32	146	543071	2.028	ppbv	98
77) 1,2-Dichlorobenzene	18.00	146	560733	1.985	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	278117	1.759	ppbv	98
79) Naphthalene	22.43	128	682088	1.984	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	121359	1.818	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	337550m	1.978	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1681042

Ion Ratio Lower Upper

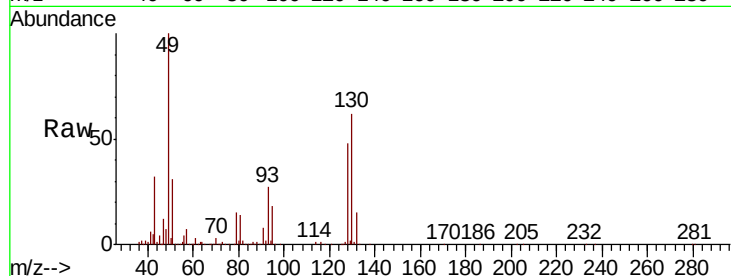
49 100

128 48.6 22.3 66.8

130 62.4 28.4 85.3

Manual Integrations
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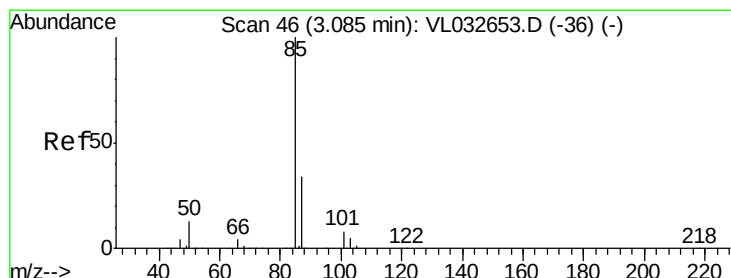
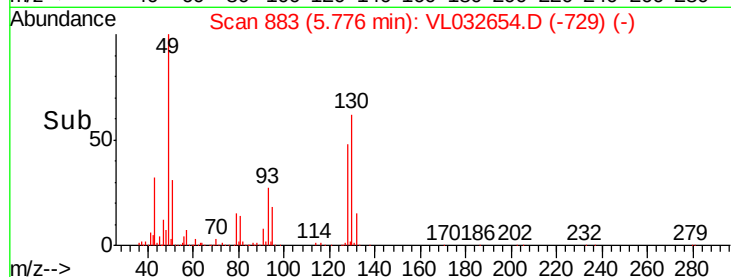
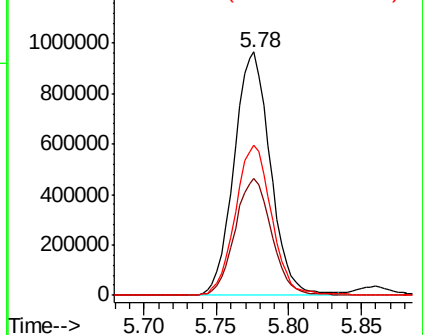
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.582 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032654.D

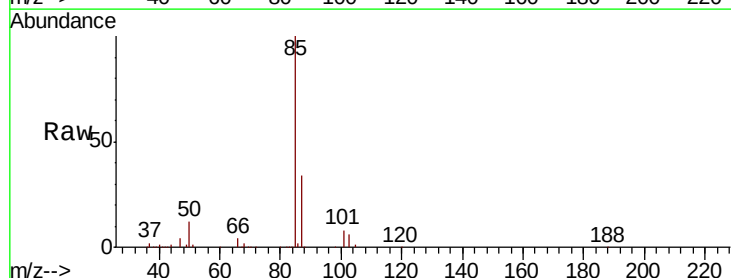
Acq: 18 Oct 2018 16:47

Tgt Ion: 85 Resp: 262339

Ion Ratio Lower Upper

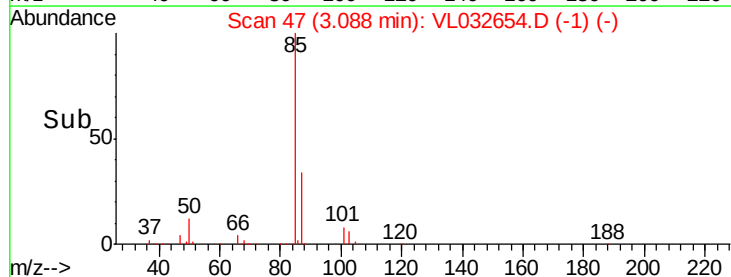
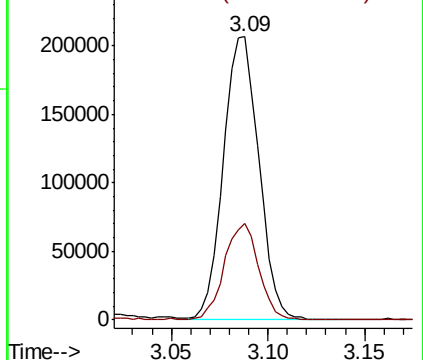
85 100

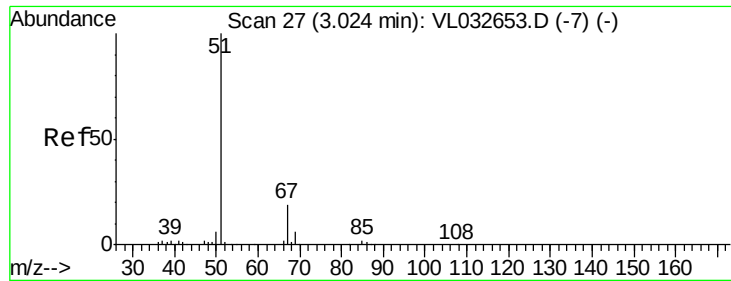
87 33.9 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.999 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 281111

Ion Ratio Lower Upper

51 100

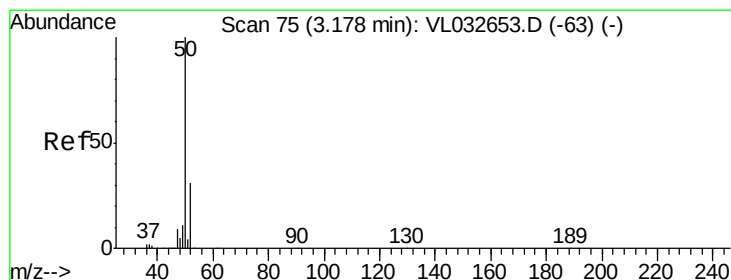
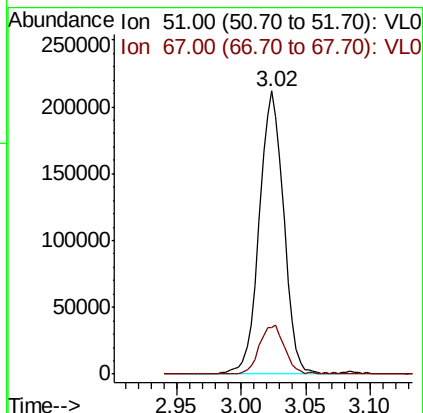
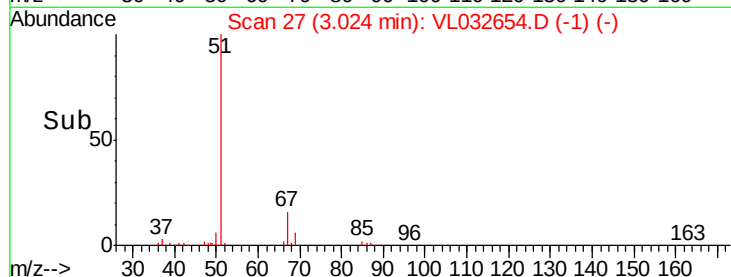
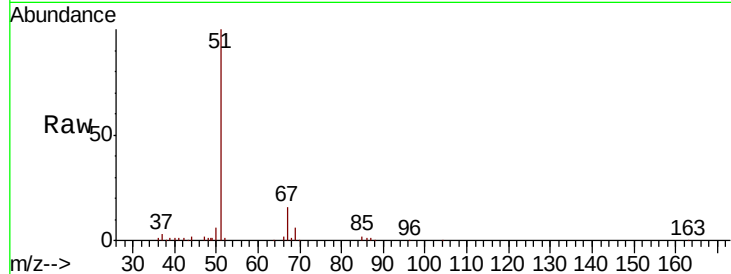
67 17.8 15.2 22.8

Manual Integrations

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#4

Chloromethane

Concen: 2.058 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032654.D

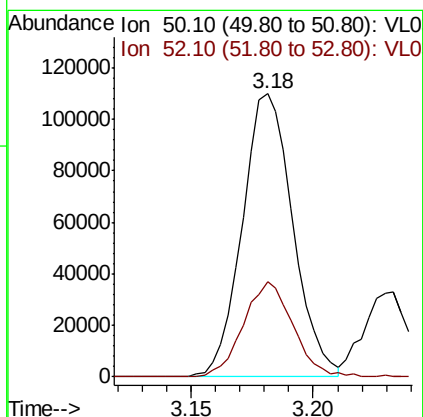
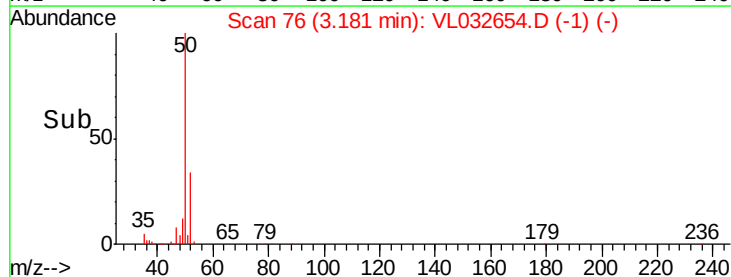
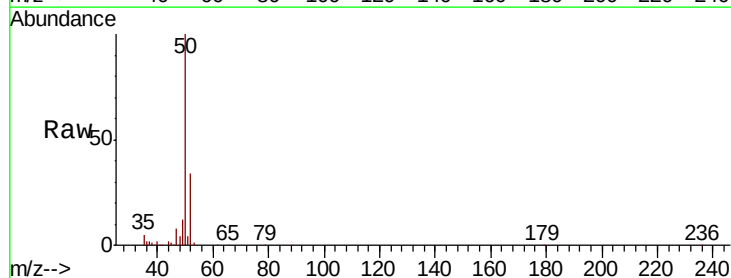
Acq: 18 Oct 2018 16:47

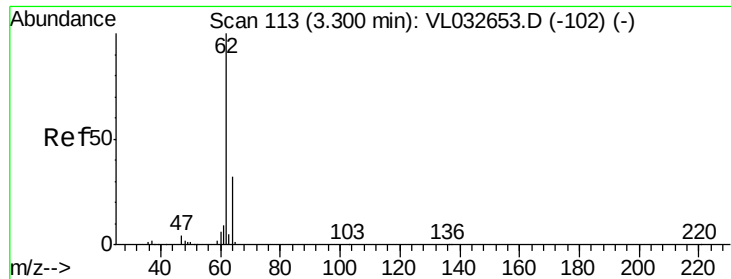
Tgt Ion: 50 Resp: 158005

Ion Ratio Lower Upper

50 100

52 33.9 25.9 38.9





#5

Vinyl Chloride

Concen: 2.023 ppbv

RT: 3.30 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 156525

Ion Ratio Lower Upper

62 100

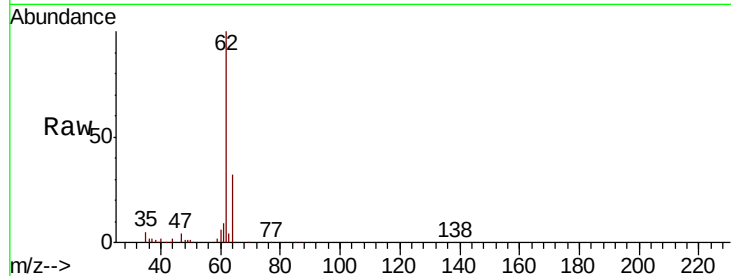
64 31.9 25.5 38.3

Manual Integrations

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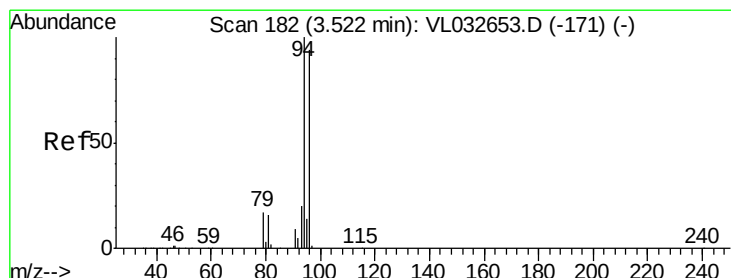
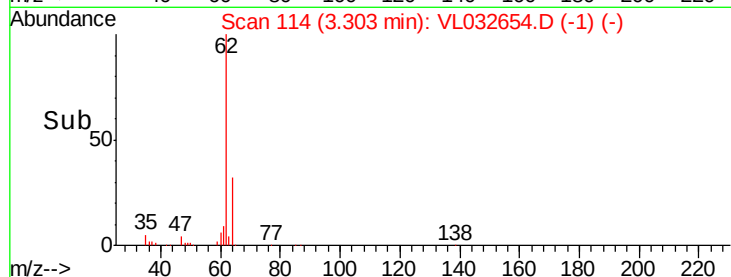
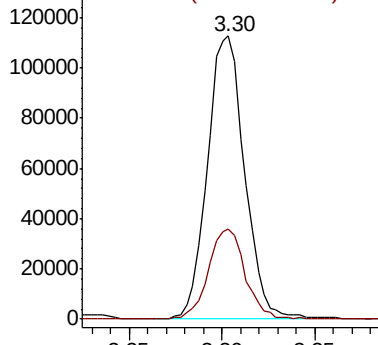
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 2.037 ppbv

RT: 3.53 min Scan# 184

Delta R.T. 0.01 min

Lab File: VL032654.D

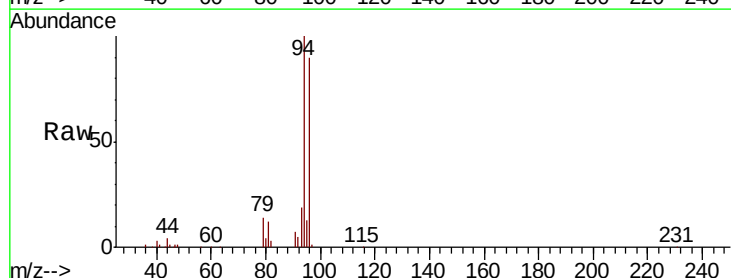
Acq: 18 Oct 2018 16:47

Tgt Ion: 94 Resp: 99542

Ion Ratio Lower Upper

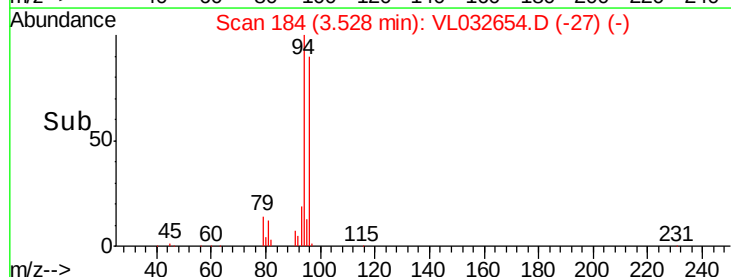
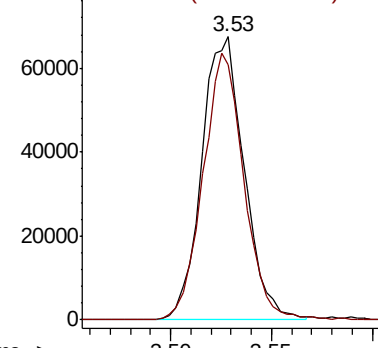
94 100

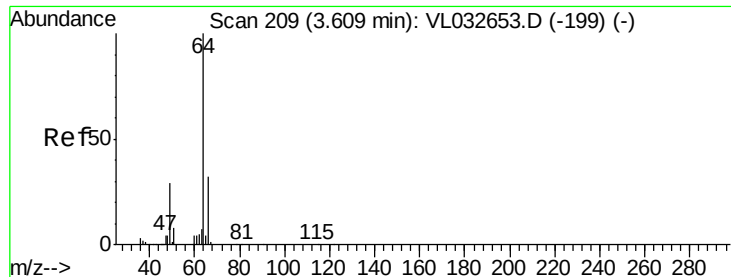
96 89.9 69.8 104.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.993 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tot Ion: 64 Resp: 60360

Ion Ratio Lower Upper

64 100

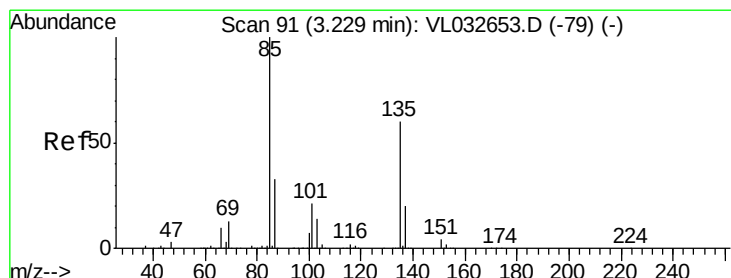
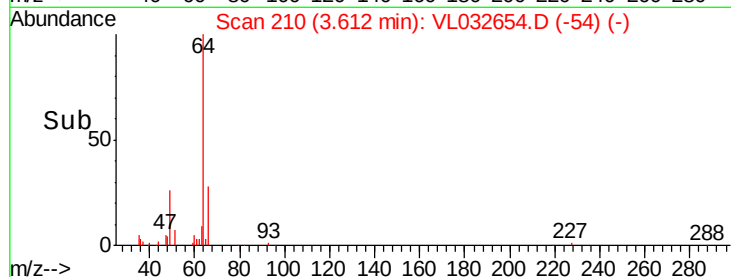
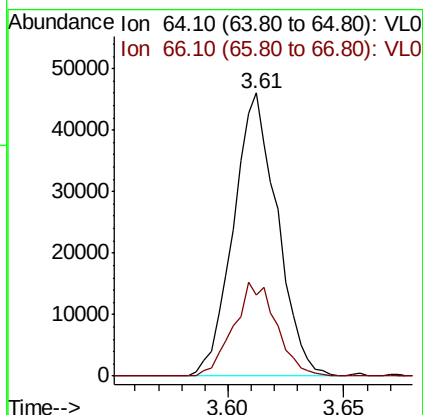
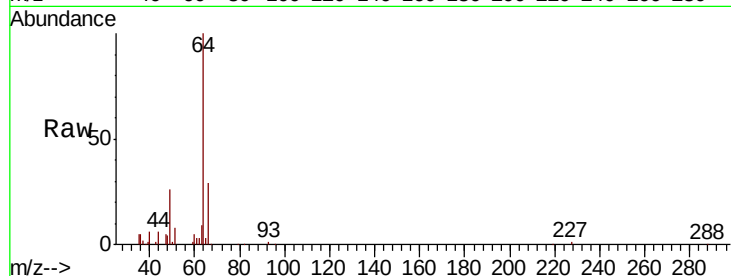
66 28.5 24.4 36.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 2.018 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032654.D

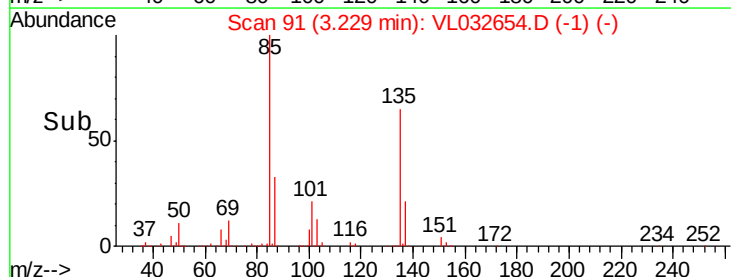
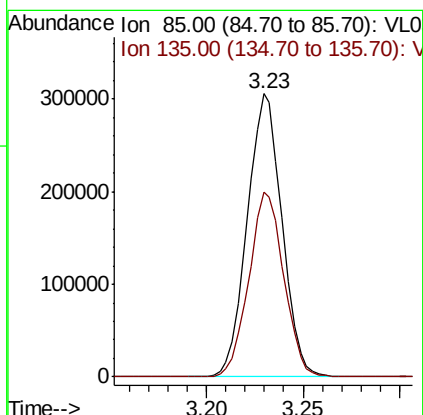
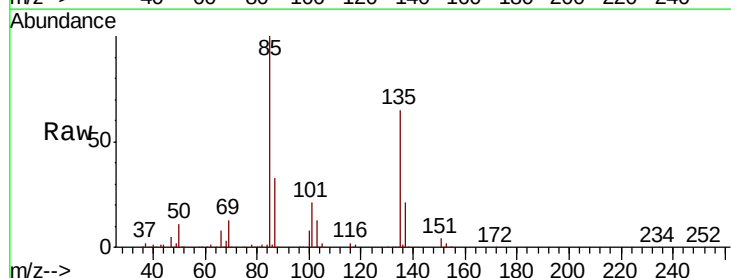
Acq: 18 Oct 2018 16:47

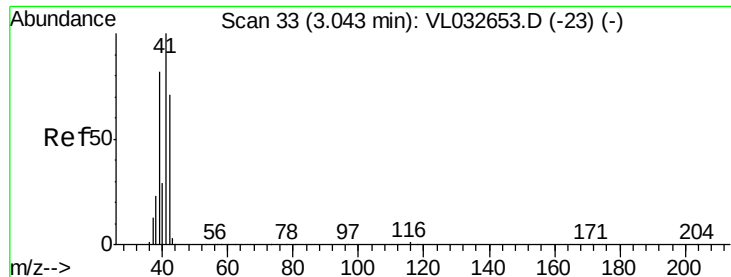
Tgt Ion: 85 Resp: 382487

Ion Ratio Lower Upper

85 100

135 65.8 49.0 73.4





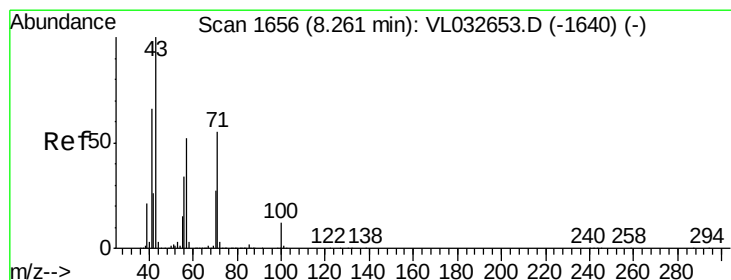
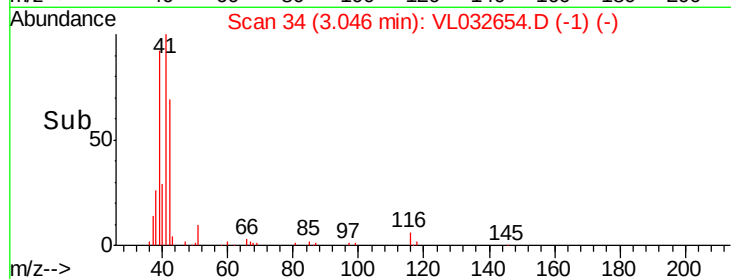
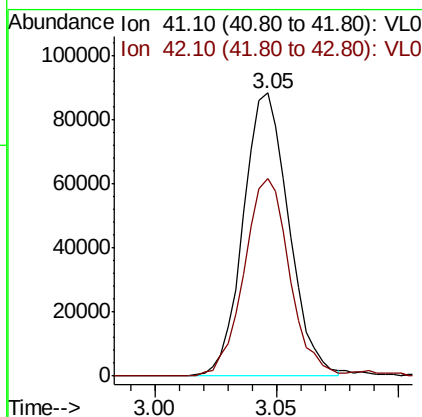
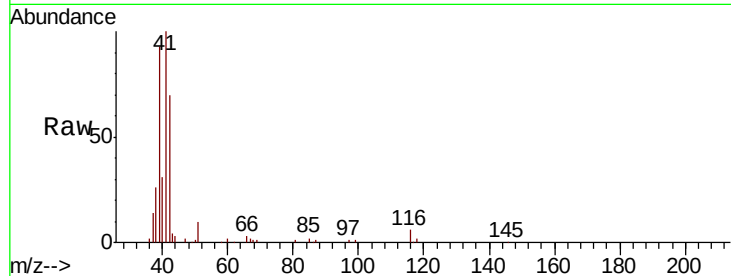
#9
 Propene
 Concen: 2.209 ppbv
 RT: 3.05 min Scan# 34
 Delta R.T. 0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 41 Resp: 113901
 Ion Ratio Lower Upper
 41 100
 42 71.1 55.4 83.0

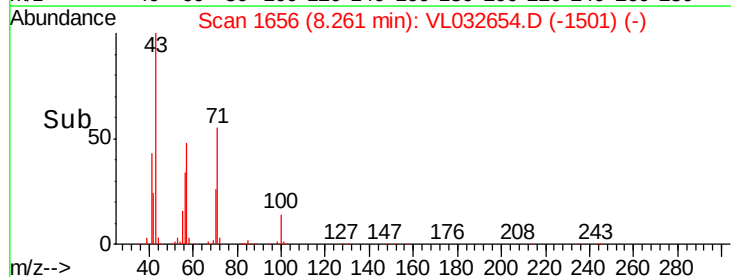
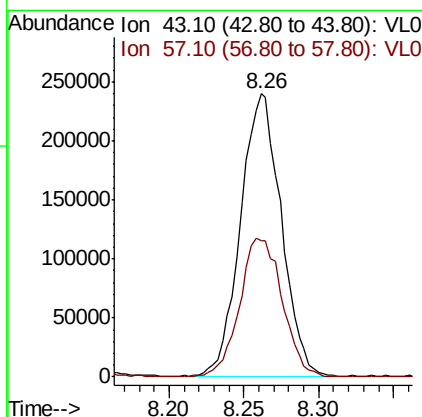
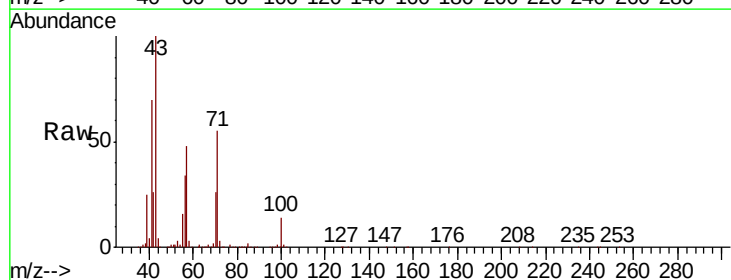
Manual Integrations
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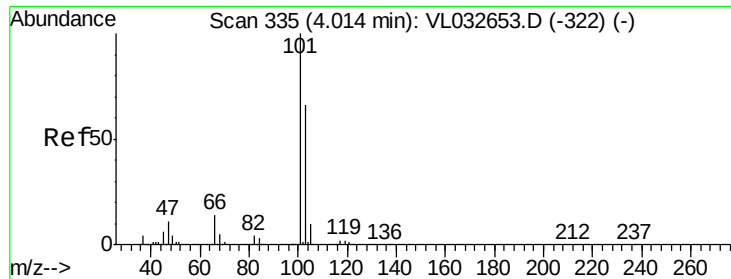
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#10
 Heptane
 Concen: 2.348 ppbv
 RT: 8.26 min Scan# 1656
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion: 43 Resp: 453393
 Ion Ratio Lower Upper
 43 100
 57 51.6 41.5 62.3





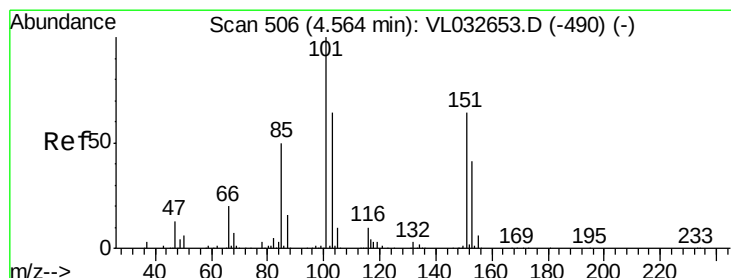
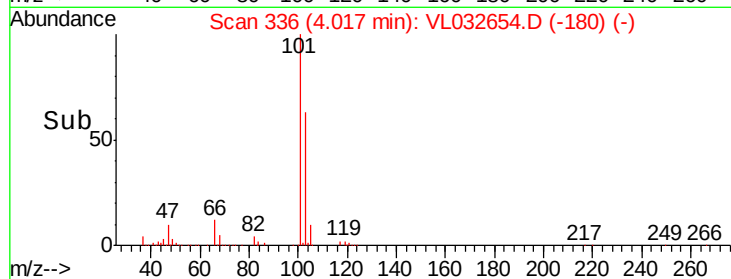
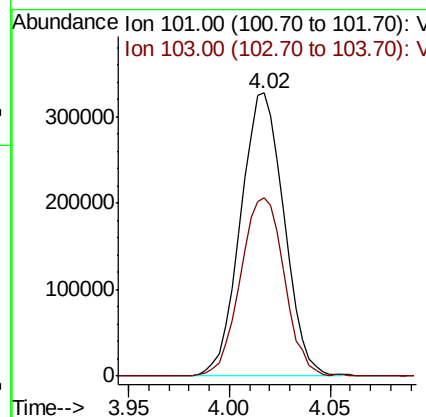
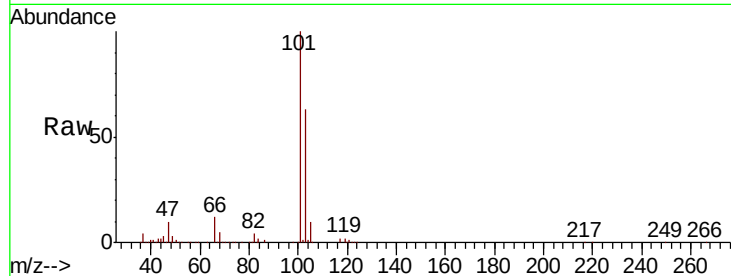
#11
 Trichlorofluoromethane
 Concen: 2.285 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.2	51.4	77.2

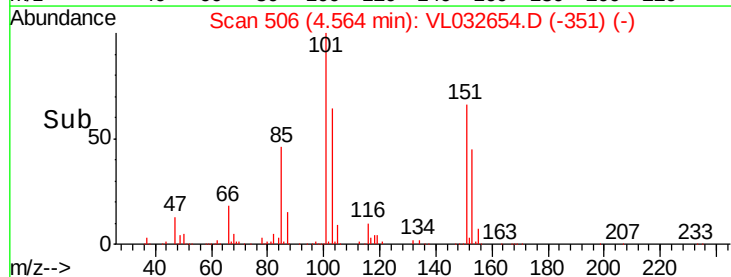
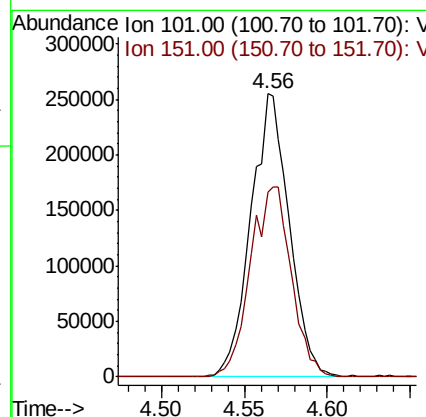
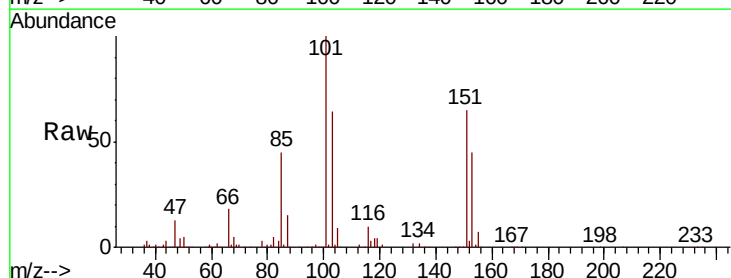
Manual Integrations
 APPROVED

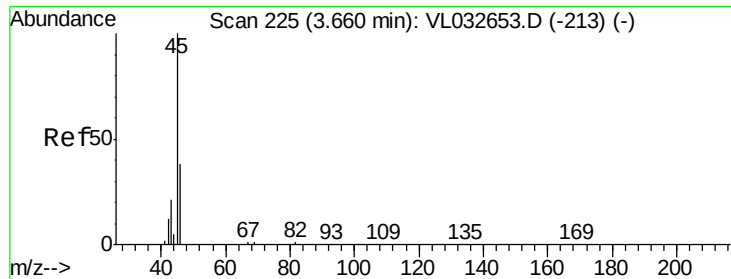
MMDadoda
 10/24/2018 12:04:21 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.602 ppbv
 RT: 4.56 min Scan# 506
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.6	52.3	78.5





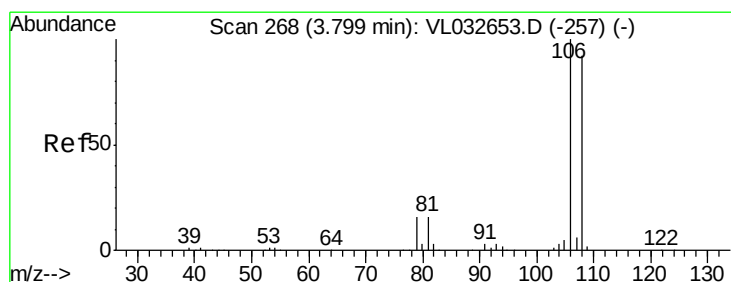
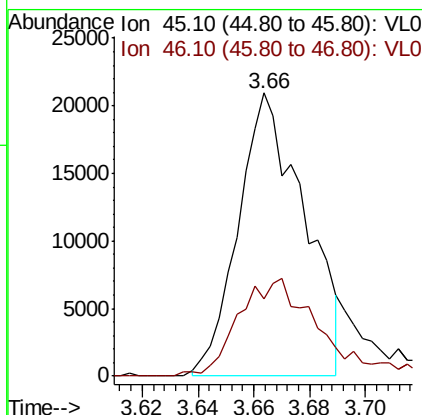
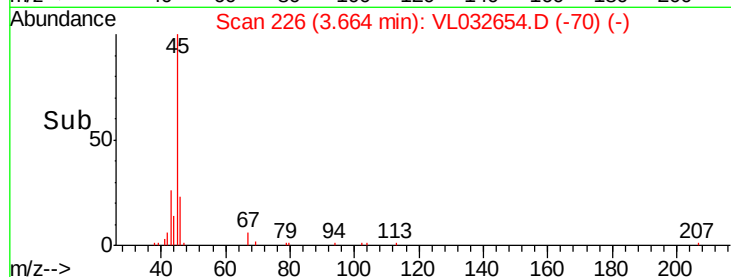
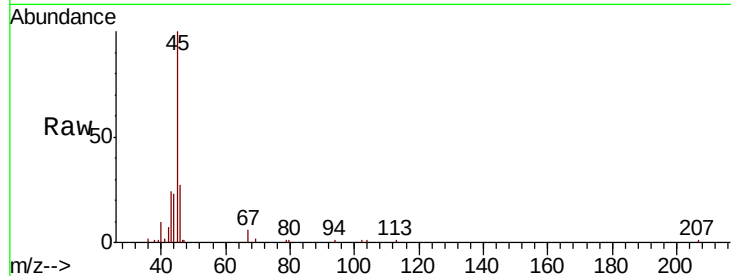
#13
Ethanol
Concen: 2.160 ppbv m
RT: 3.66 min Scan# 226
Delta R.T. 0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 34471
Ion Ratio Lower Upper
45 100
46 43.0 15.4 61.8

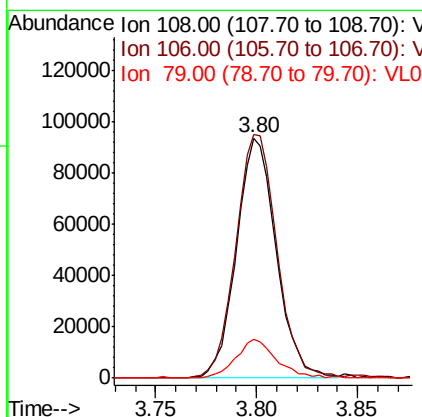
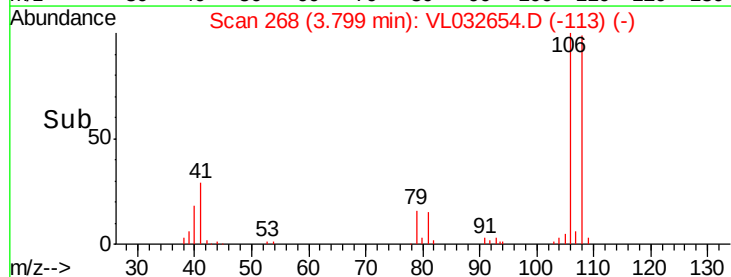
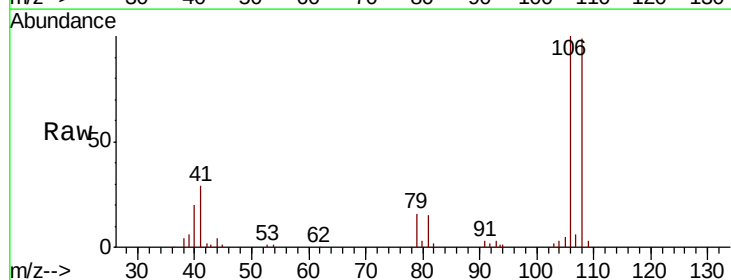
Manual Integrations
APPROVED

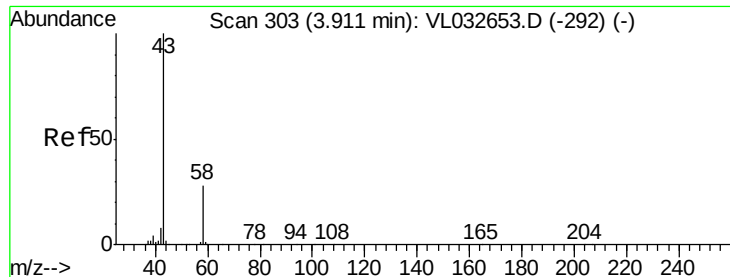
MMDadoda
10/24/2018 12:04:21 PM



#14
Bromoethene
Concen: 2.239 ppbv
RT: 3.80 min Scan# 268
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion: 108 Resp: 129547
Ion Ratio Lower Upper
108 100
106 106.0 85.0 127.4
79 16.8 13.7 20.5





#15

Acetone

Concen: 2.385 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 356765

Ion Ratio Lower Upper

43 100

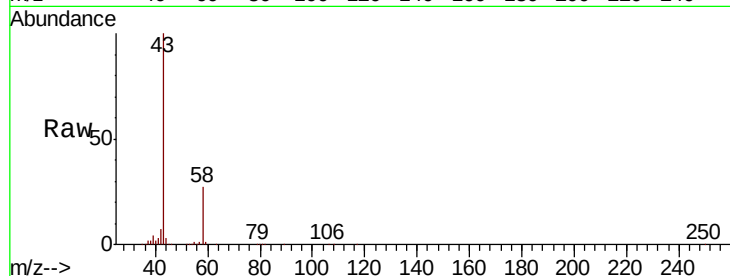
58 28.2 22.1 33.1

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.92

250000

200000

150000

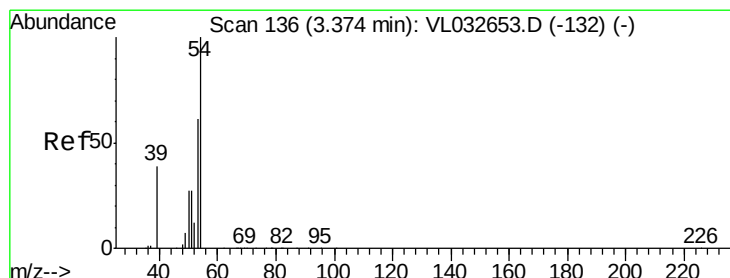
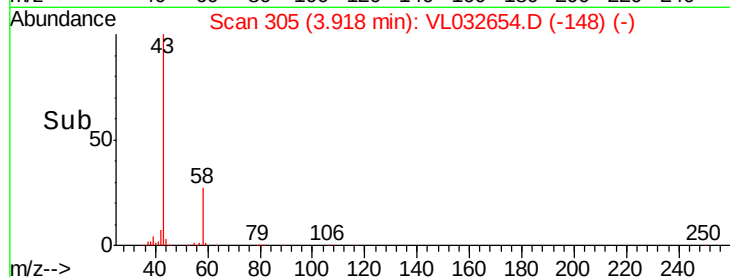
100000

50000

0

Time-->

3.85 3.90 3.95 4.00



#16

1,3-Butadiene

Concen: 2.210 ppbv

RT: 3.37 min Scan# 136

Delta R.T. -0.00 min

Lab File: VL032654.D

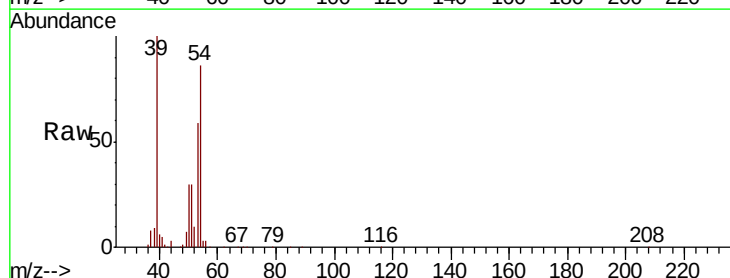
Acq: 18 Oct 2018 16:47

Tgt Ion: 39 Resp: 122425

Ion Ratio Lower Upper

39 100

54 97.0 90.4 135.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.37

120000

100000

80000

60000

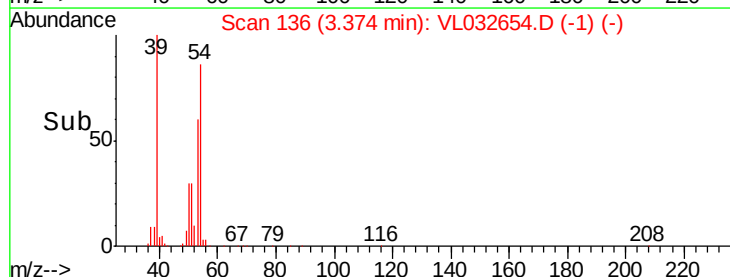
40000

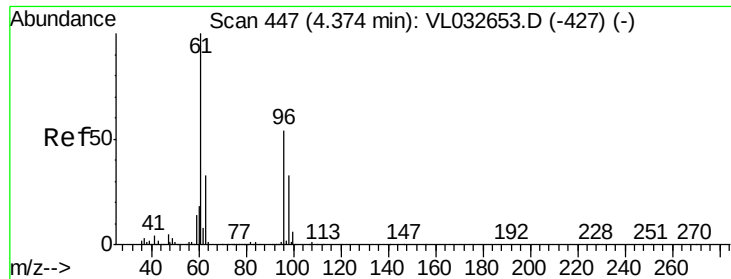
20000

0

Time-->

3.34 3.36 3.38 3.40 3.42





#17

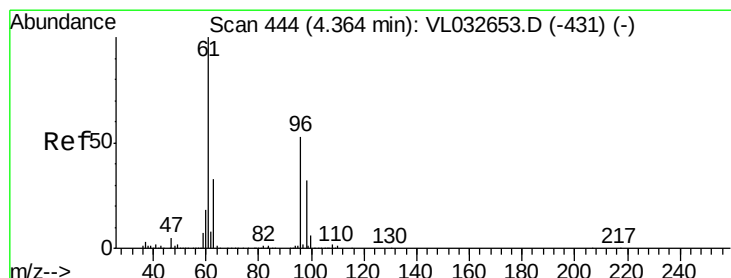
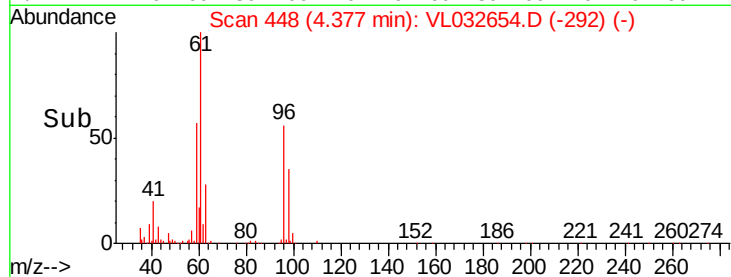
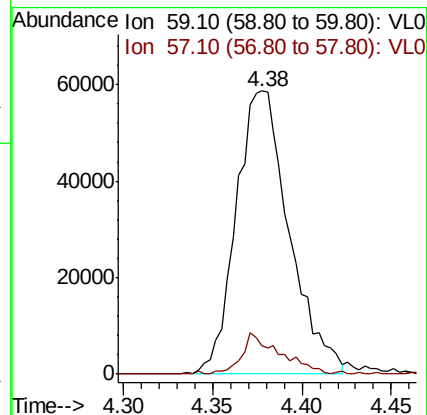
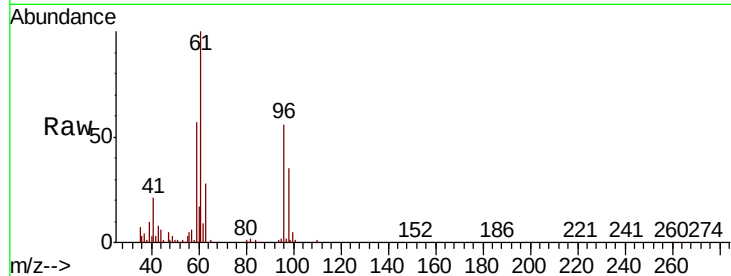
tert-Butyl alcohol
Concen: 8.850 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	0.0	0.0#

Manual Integrations
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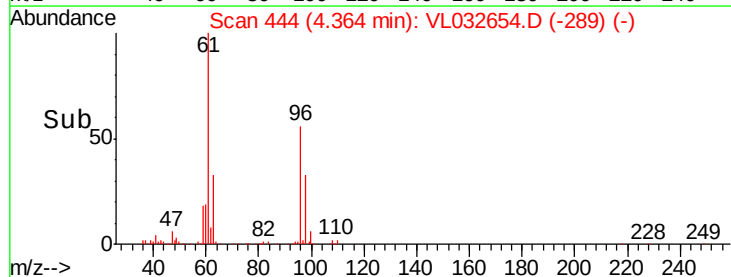
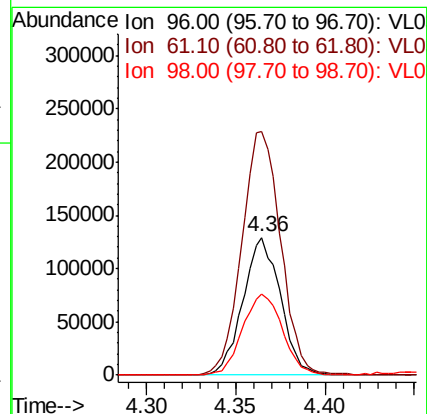
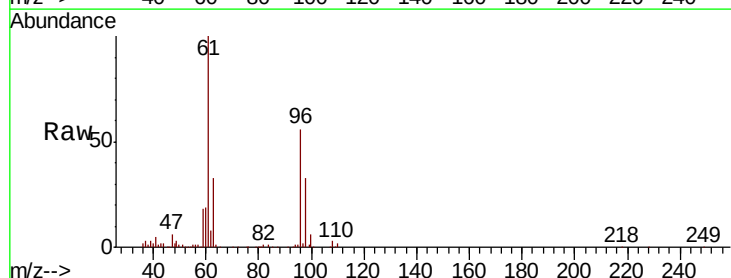
MMDadoda
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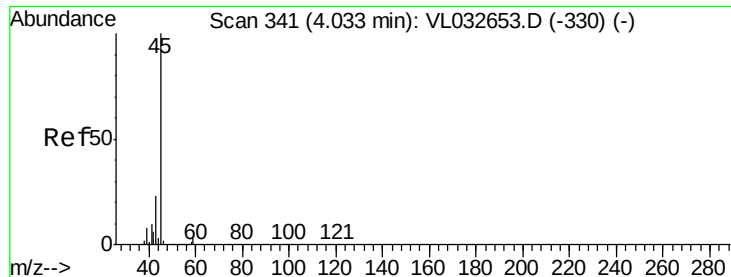


#18

1,1-Dichloroethene
Concen: 2.655 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.9	151.6	227.4
98	58.8	50.6	75.8





#19

Isopropyl Alcohol

Concen: 2.306 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.01 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 243634

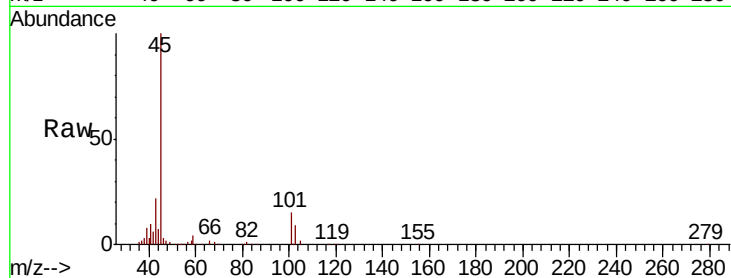
Ion Ratio Lower Upper

45 100

58 2.9 2.0 3.0

Manual Integrations
APPROVED

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

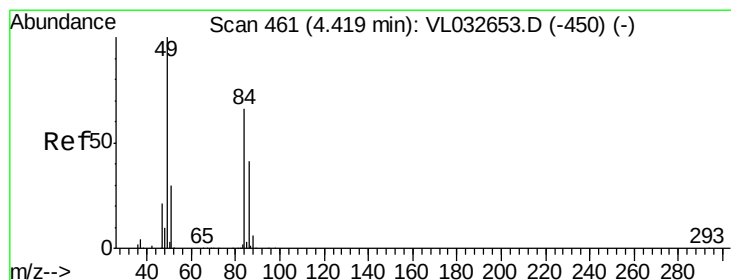
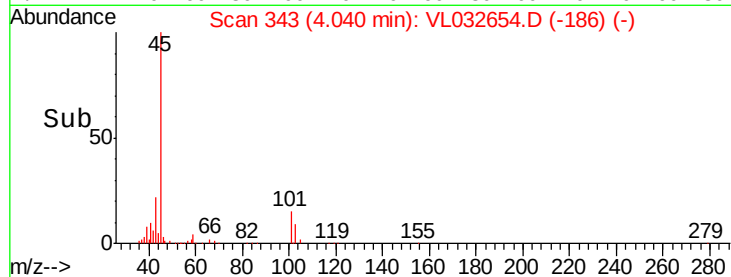
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 2.613 ppbv

RT: 4.42 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion: 84 Resp: 175140

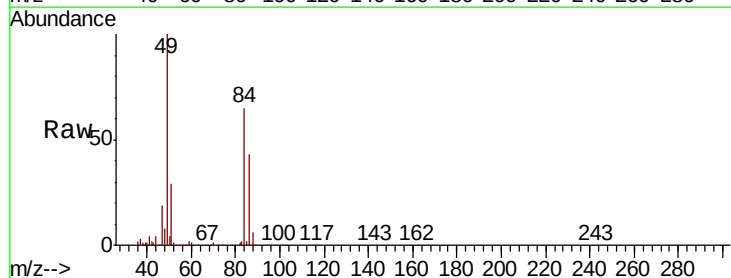
Ion Ratio Lower Upper

84 100

49 152.3 113.5 170.3

51 43.4 34.8 52.2

86 65.7 47.9 71.9



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

250000

200000

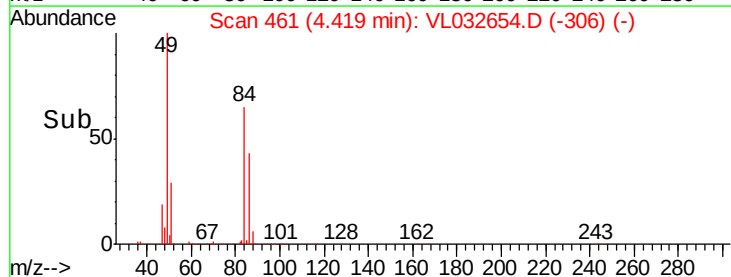
150000

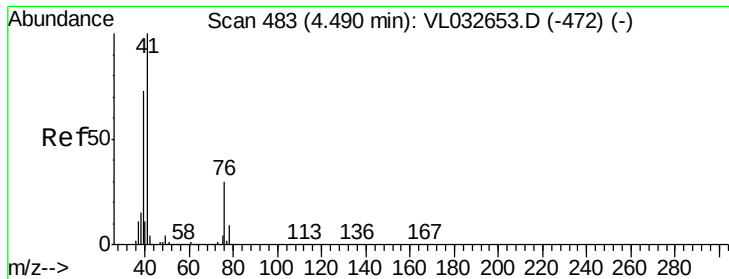
100000

50000

0

Time-->





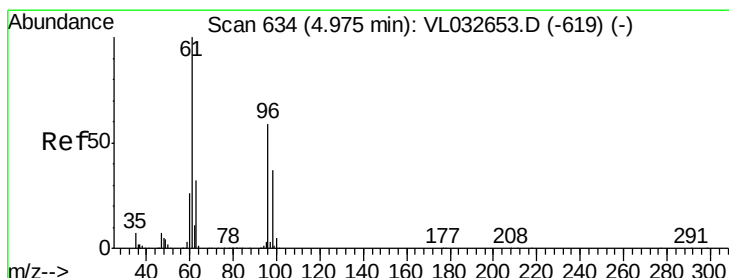
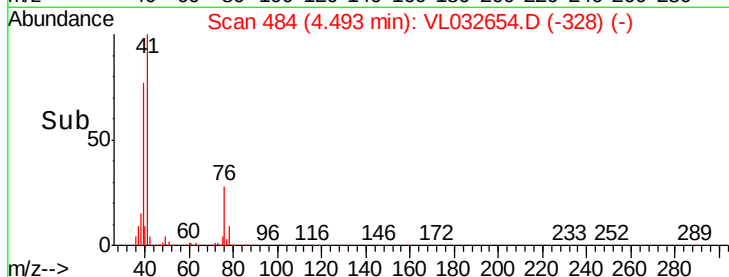
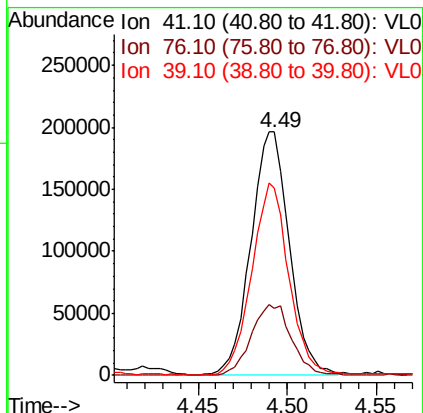
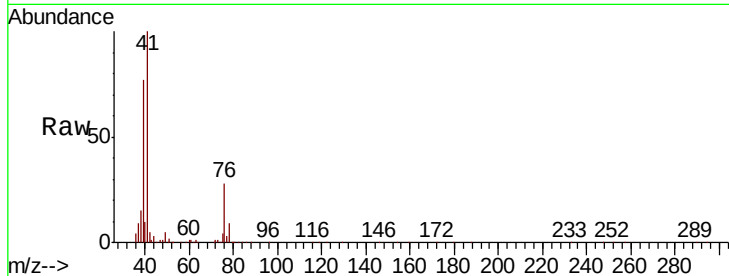
#21
Allvl Chloride
Concen: 2.628 ppbv
RT: 4.49 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:	41	Resp:	295082
Ion Ratio	Lower	Upper	
41	100		
76	30.6	24.3	36.5
39	76.8	60.3	90.5

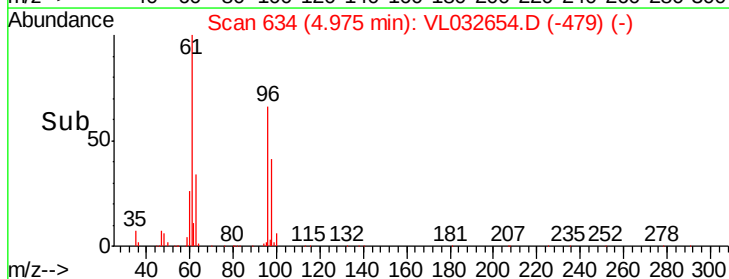
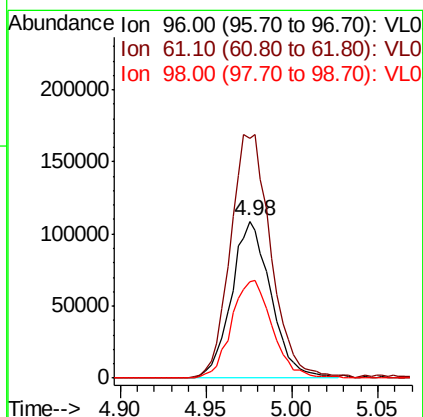
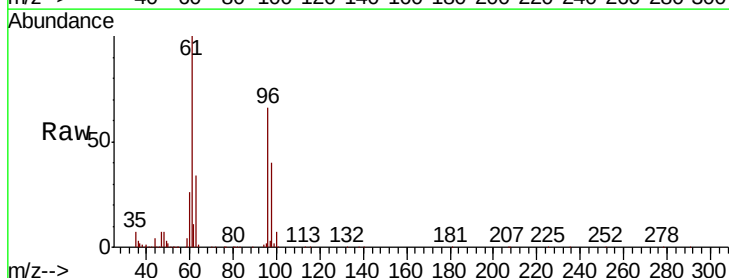
Manual Integrations
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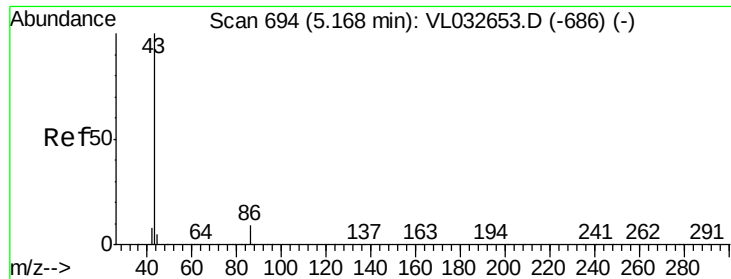
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 2.115 ppbv
RT: 4.98 min Scan# 634
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion:	96	Resp:	174191
Ion Ratio	Lower	Upper	
96	100		
61	152.1	140.4	210.6
98	61.7	55.0	82.6





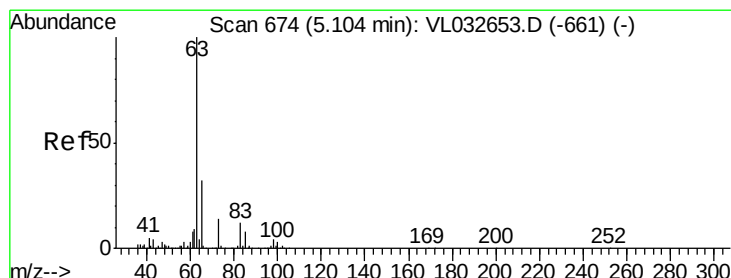
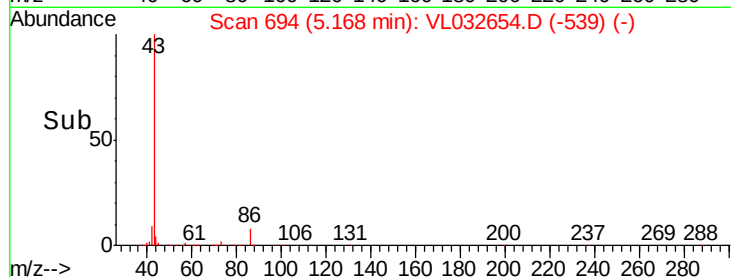
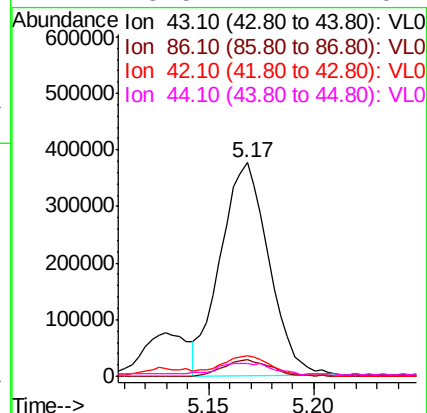
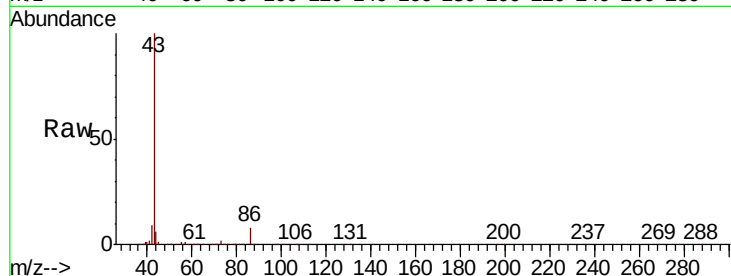
#23
 Vinyl Acetate
 Concen: 2.506 ppbv
 RT: 5.17 min Scan# 694
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		596387		
86	7.8		6.1	9.1	
42	9.3		7.4	11.2	
44	5.5		4.2	6.2	

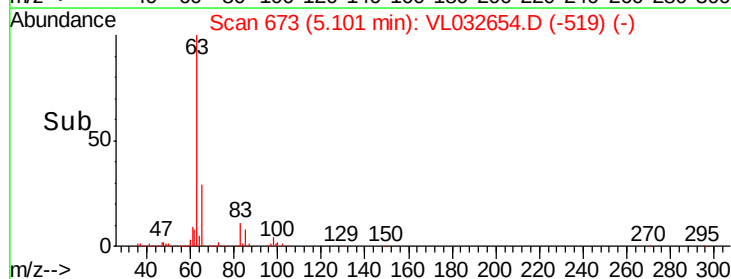
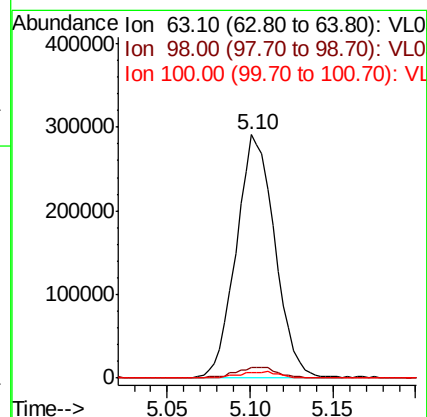
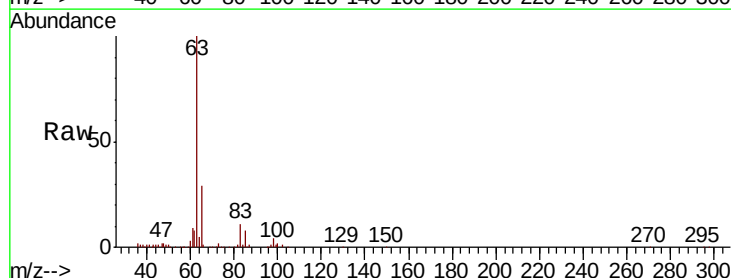
Manual Integrations
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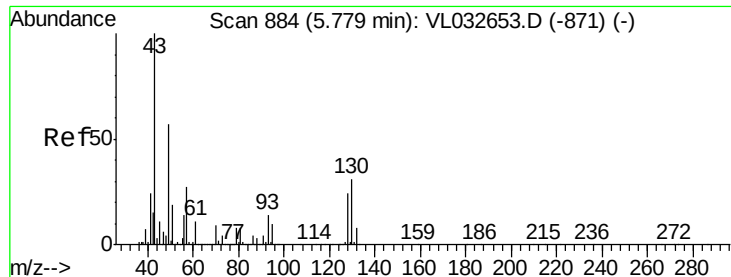
MMDadoda
 10/24/2018 12:04:21 PM



#24
 1,1-Dichloroethane
 Concen: 2.119 ppbv
 RT: 5.10 min Scan# 673
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		467572		
98	4.3		2.1	6.3	
100	2.2		1.2	3.6	





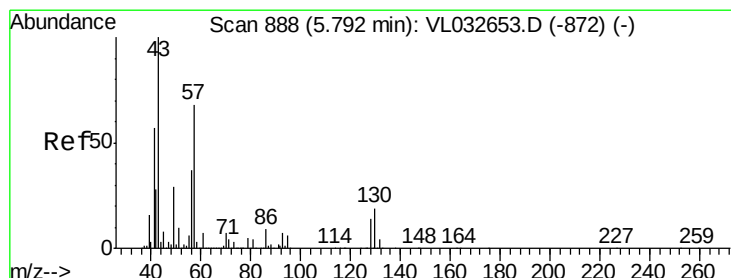
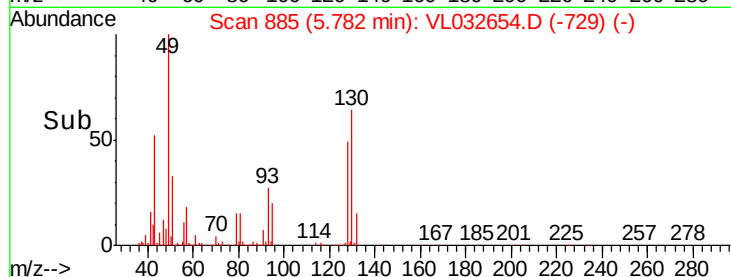
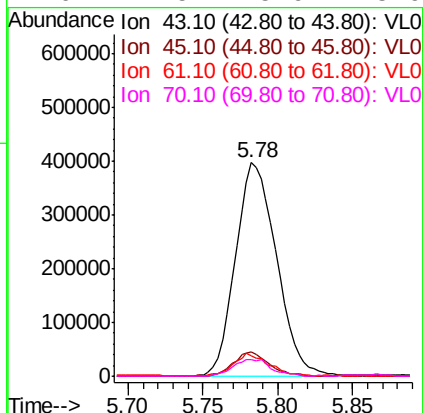
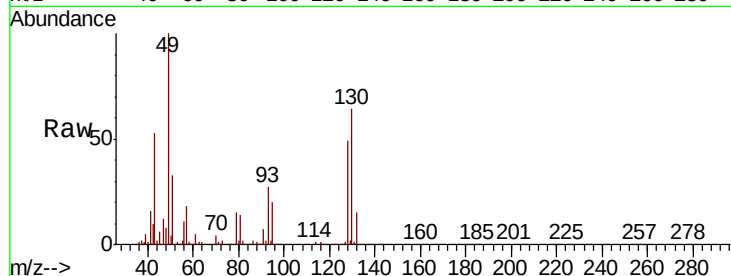
#25
Ethyl Acetate
Concen: 2.139 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		756995		
45	9.9	8.0	12.0		
61	9.1	8.0	12.0		
70	7.5	5.9	8.9		

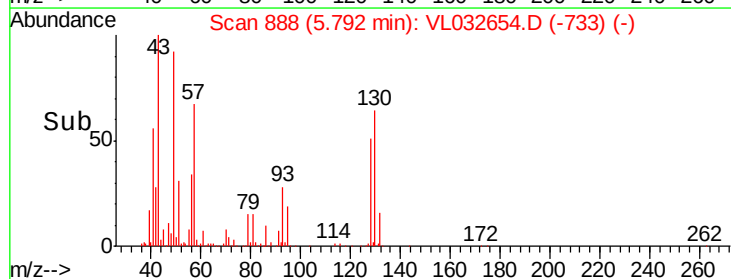
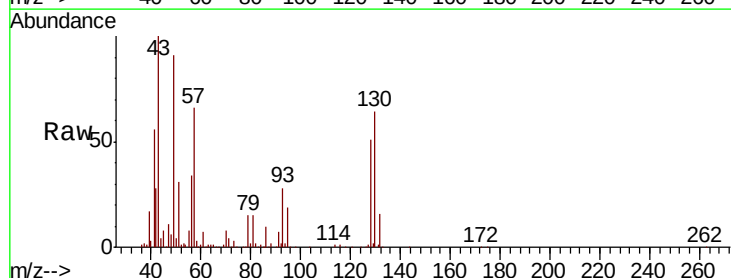
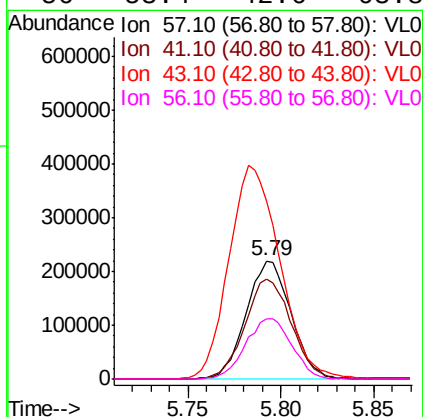
Manual Integrations
APPROVED

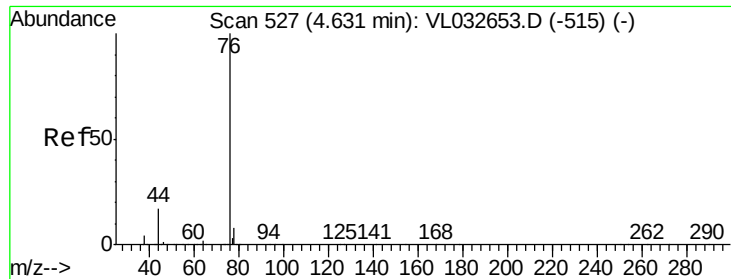
MMDadoda
10/24/2018 12:04:21 PM



#26
Hexane
Concen: 2.312 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		368656		
41	87.9	67.4	101.0		
43	206.3	171.9	257.9		
56	53.4	42.6	63.8		





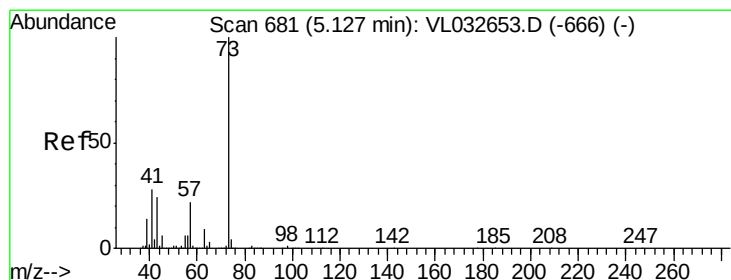
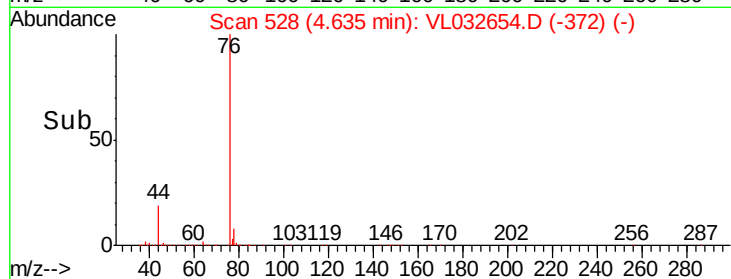
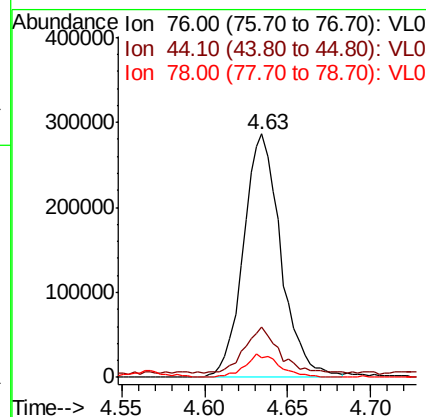
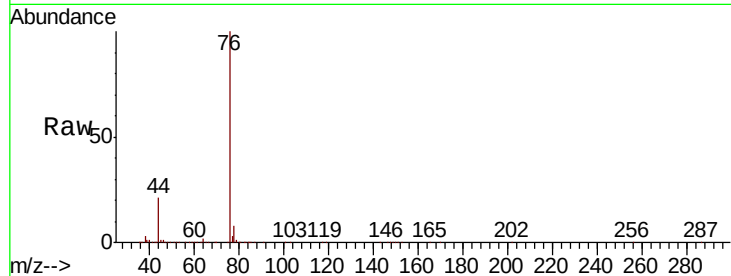
#27
Carbon Disulfide
Concen: 2.330 ppbv
RT: 4.63 min Scan# 528
Delta R.T. 0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.3	13.7	20.5
78	9.0	7.4	11.2

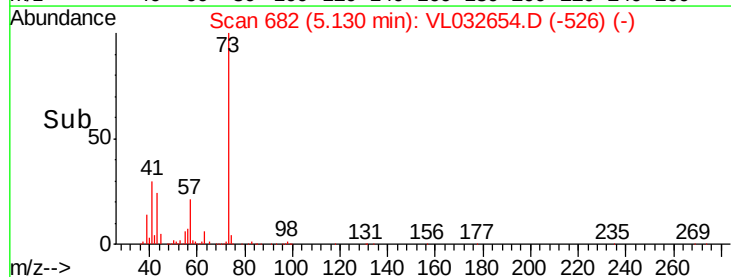
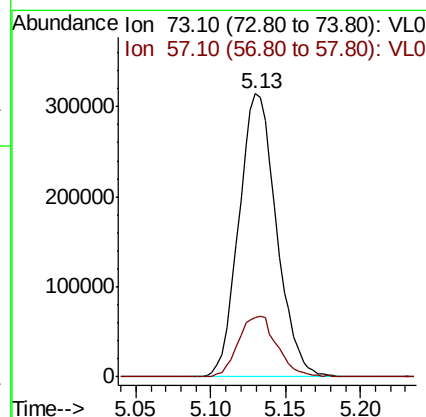
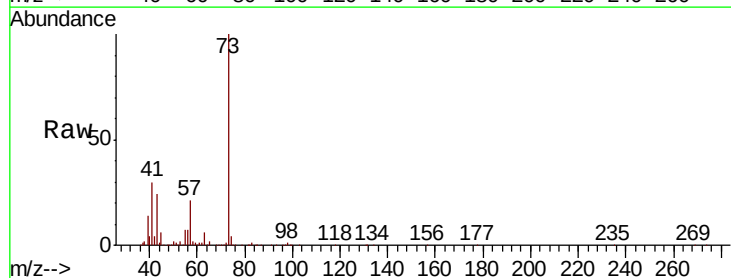
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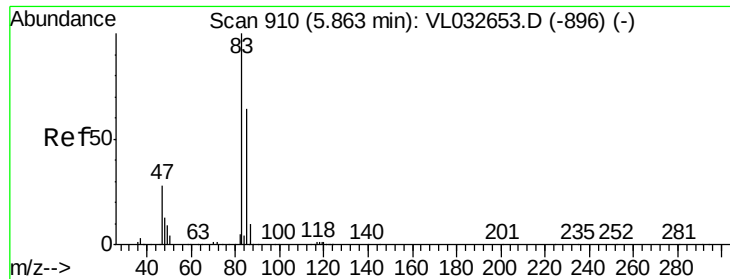
MMDadoda
10/24/2018 12:04:21 PM



#28
Methyl tert-Butyl Ether
Concen: 2.750 ppbv
RT: 5.13 min Scan# 682
Delta R.T. 0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.0	27.0





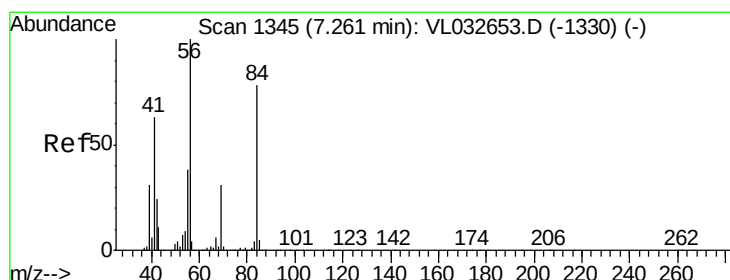
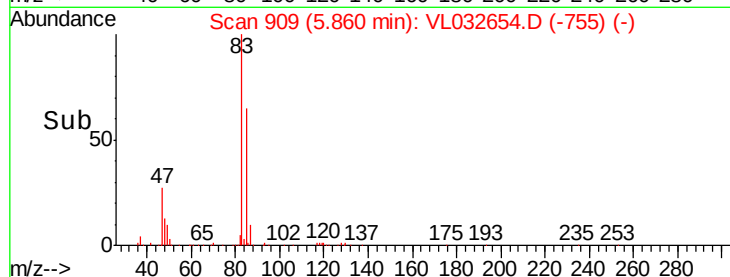
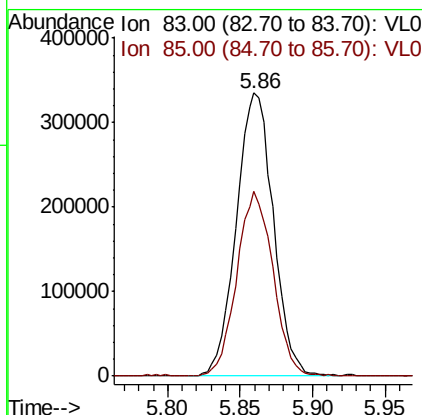
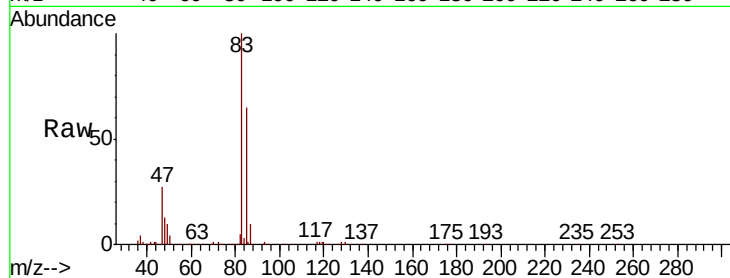
#29
Chloroform
Concen: 2.123 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	593226
Ion Ratio	100	Lower	Upper
83	100		
85	65.1	53.0	79.6

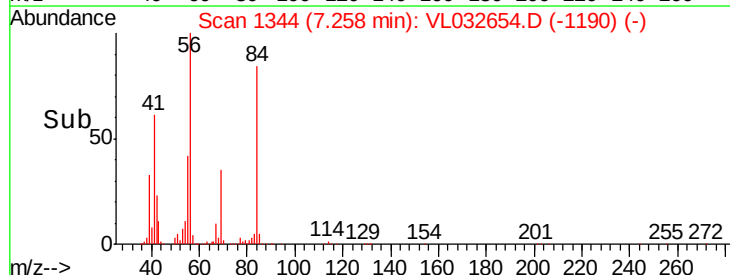
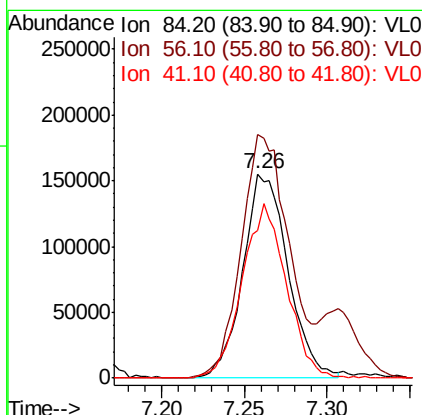
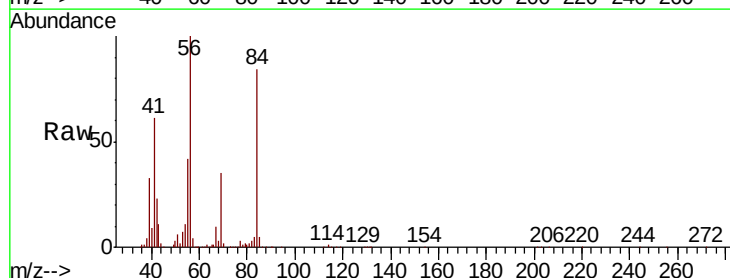
Manual Integrations
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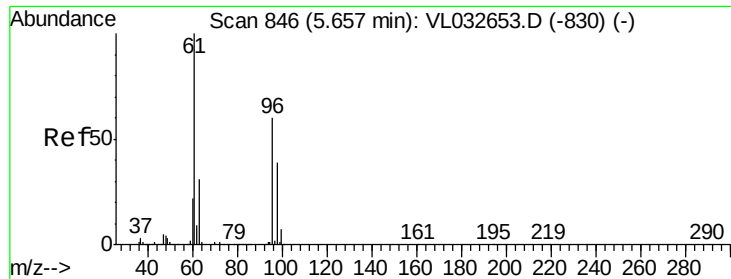
MMDadoda
10/24/2018 12:04:21 PM



#30
Cyclohexane
Concen: 2.329 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion	84	Resp	292896
Ion Ratio	100	Lower	Upper
84	100		
56	155.2	108.3	162.5
41	84.3	64.8	97.2





#31

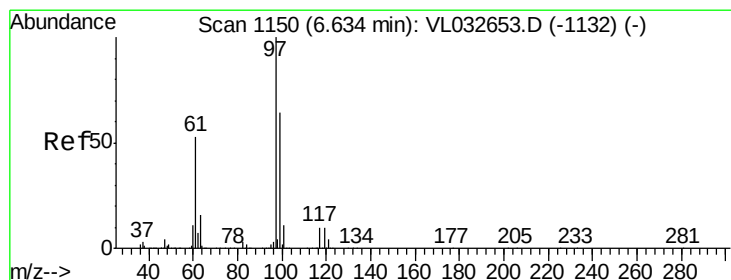
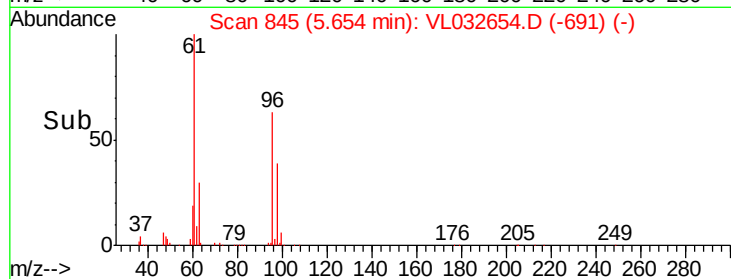
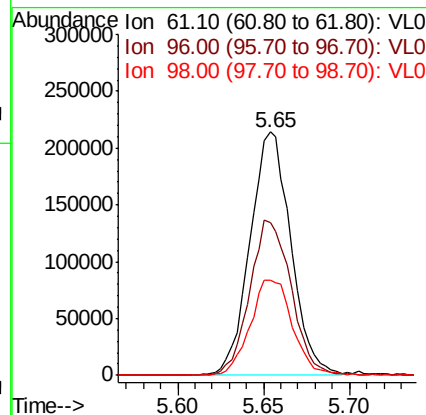
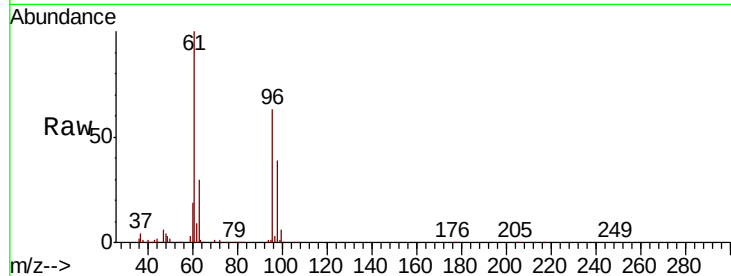
cis-1,2-Dichloroethene
 Concen: 2.308 ppbv
 RT: 5.65 min Scan# 845
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.4	51.8	77.6
98	39.3	33.8	50.6

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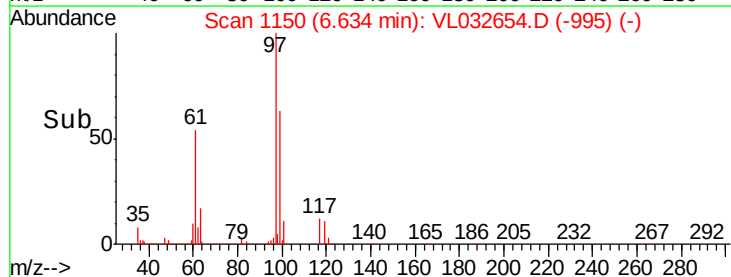
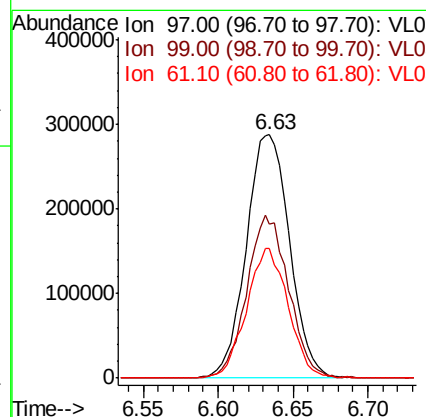
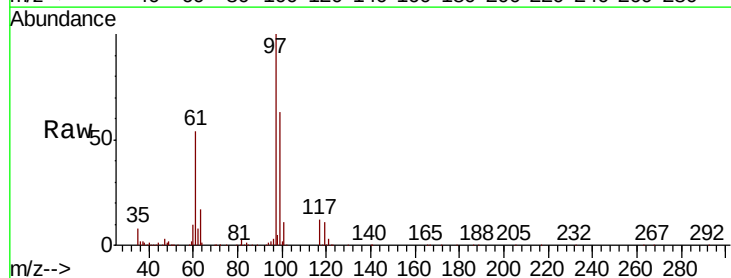
MMDadoda
 10/24/2018 12:04:21 PM

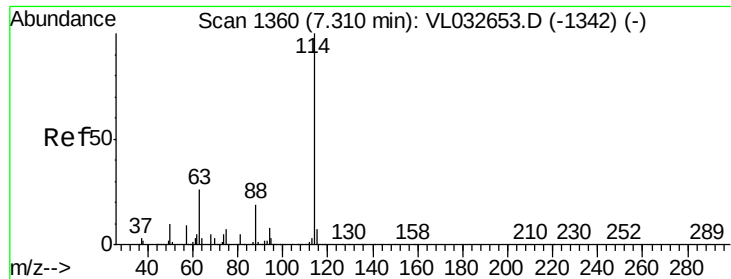


#32

1,1,1-Trichloroethane
 Concen: 2.081 ppbv
 RT: 6.63 min Scan# 1150
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.0	78.0
61	51.4	40.7	61.1





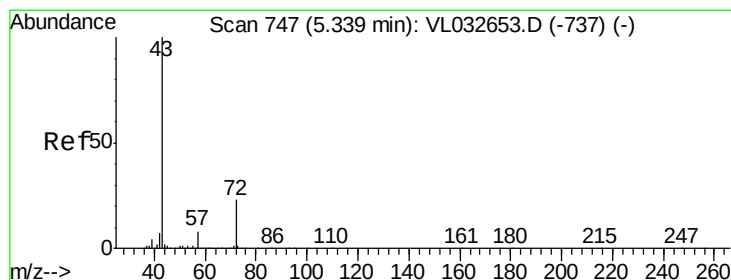
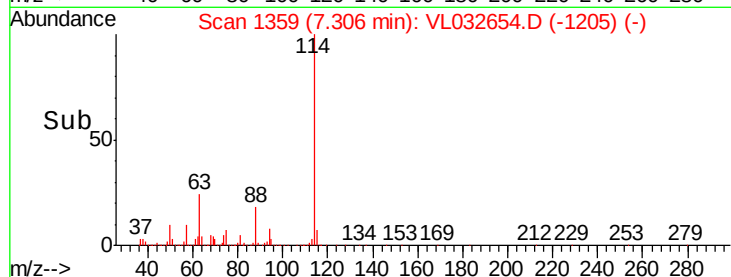
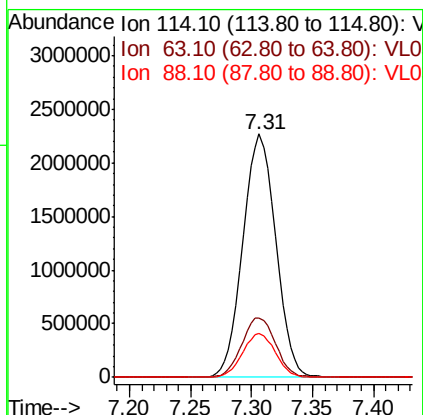
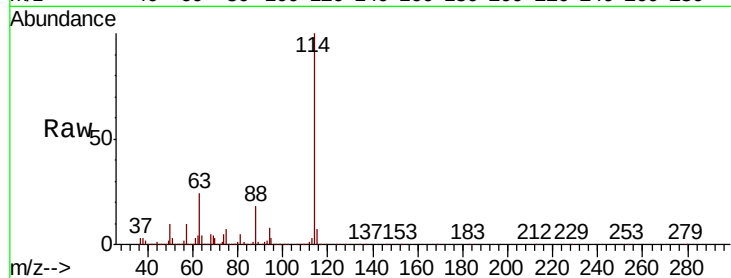
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.7	32.5
88	18.0	14.9	22.3

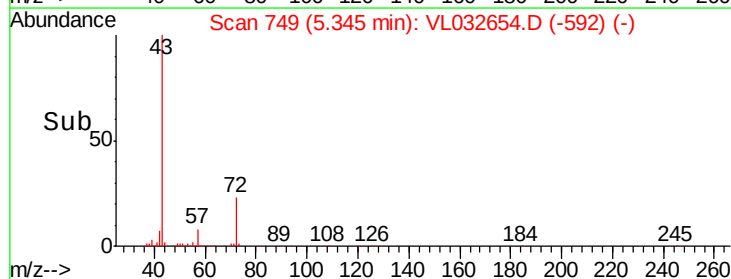
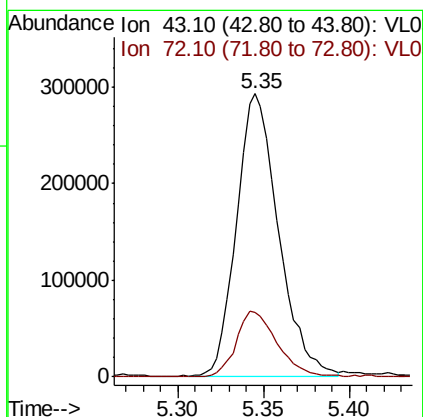
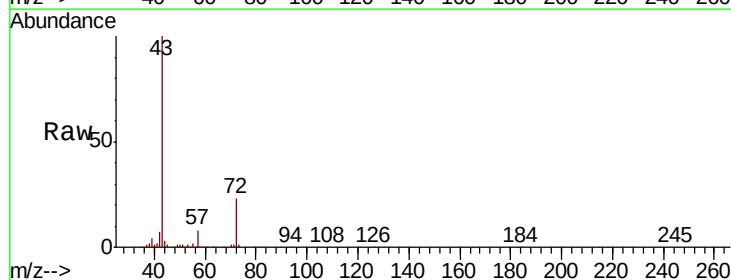
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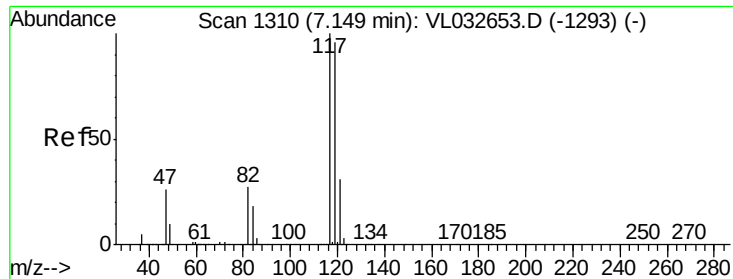
MMDadoda
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#34
 2-Butanone
 Concen: 2.104 ppbv
 RT: 5.35 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.6	27.8





#35

Carbon Tetrachloride

Concen: 1.882 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

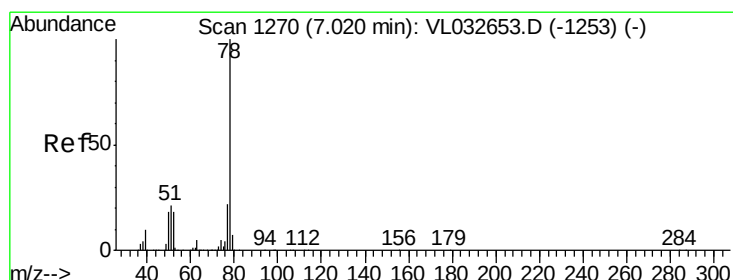
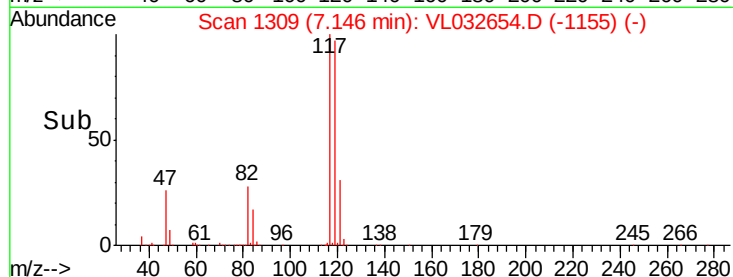
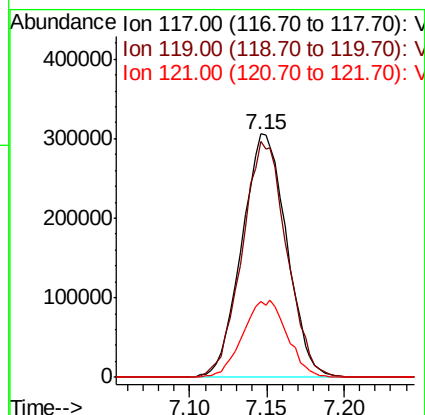
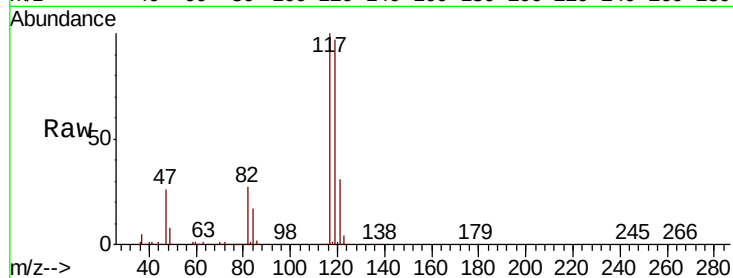
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	616107
Ion Ratio		Lower	Upper
117	100		
119	96.5	75.7	113.5
121	31.3	24.7	37.1

Manual Integrations
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#36

Benzene

Concen: 2.161 ppbv

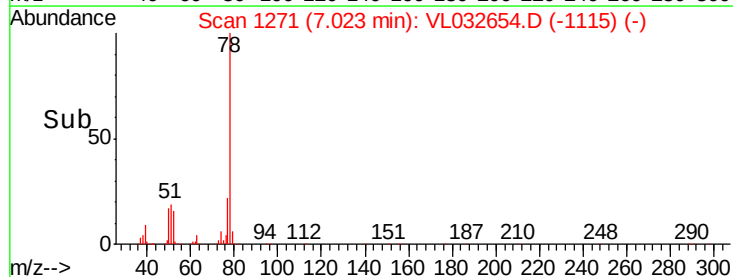
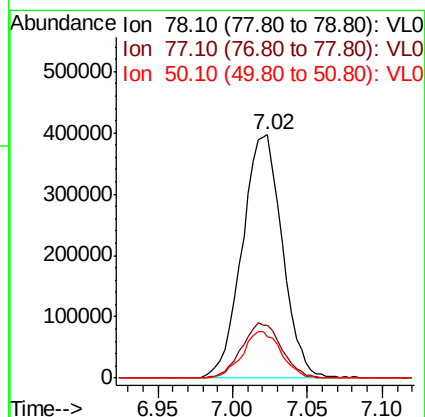
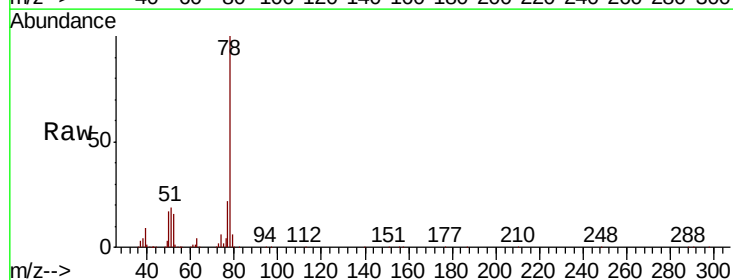
RT: 7.02 min Scan# 1271

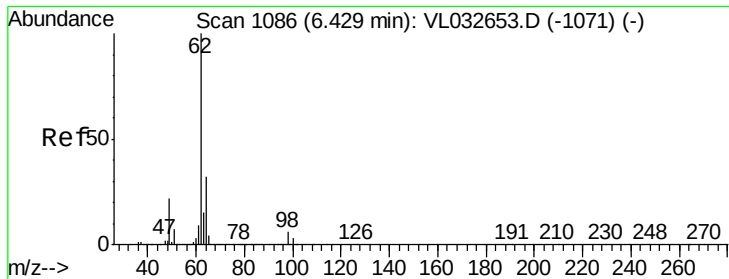
Delta R.T. 0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:	78	Resp:	740023
Ion Ratio		Lower	Upper
78	100		
77	21.6	18.1	27.1
50	17.1	15.1	22.7





#37

1,2-Dichloroethane

Concen: 1.914 ppbv

RT: 6.43 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 449427

Ion Ratio Lower Upper

62 100

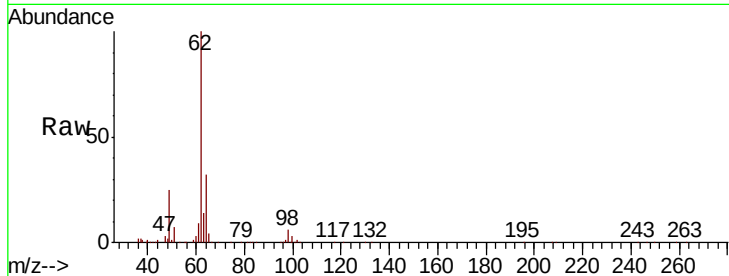
98 6.2 4.4 6.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

300000

250000

200000

150000

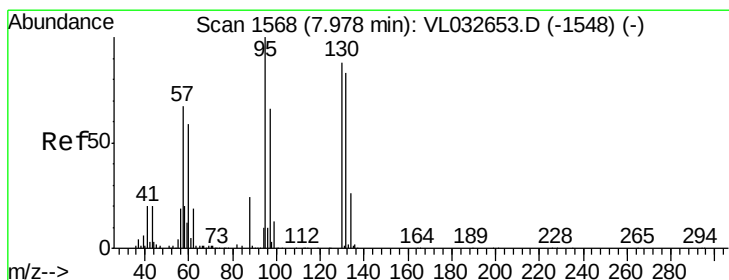
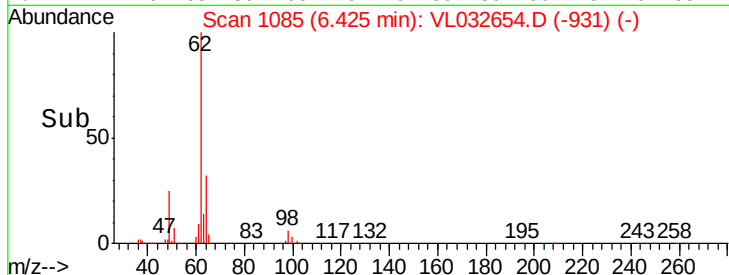
100000

50000

0

6.35 6.40 6.45 6.50

Time-->



#38

Trichloroethene

Concen: 2.173 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:130 Resp: 279757

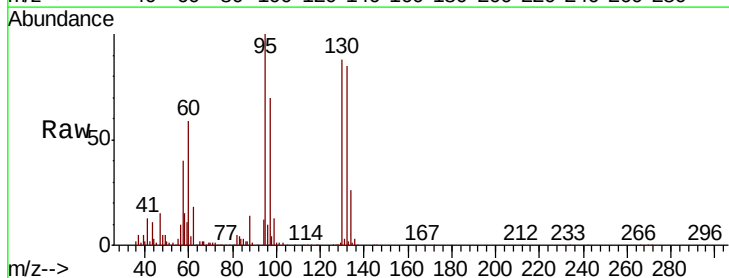
Ion Ratio Lower Upper

130 100

95 113.3 93.4 140.0

132 96.8 76.5 114.7

97 79.2 60.2 90.2



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

250000

200000

150000

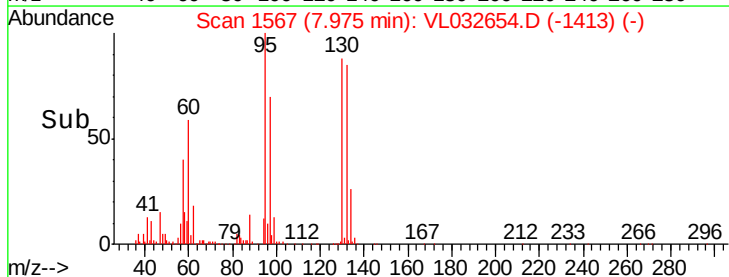
100000

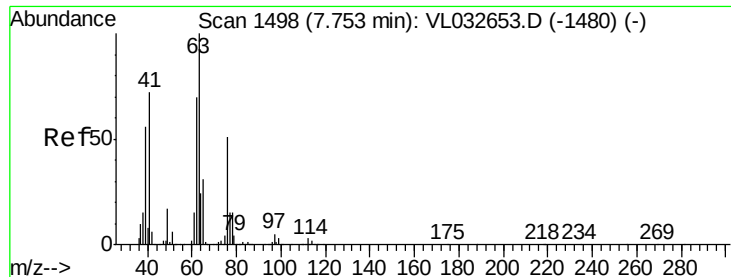
50000

0

7.90 7.95 8.00 8.05

Time-->





#39

1,2-Dichloropropane

Concen: 1.966 ppbv

RT: 7.75 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

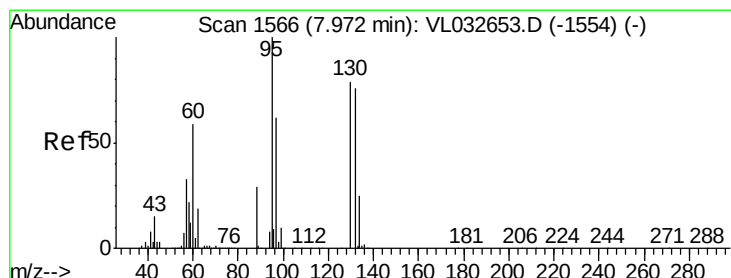
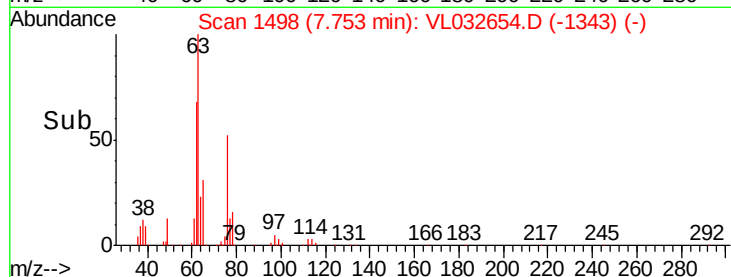
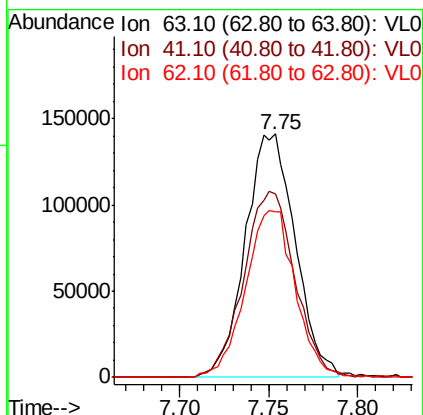
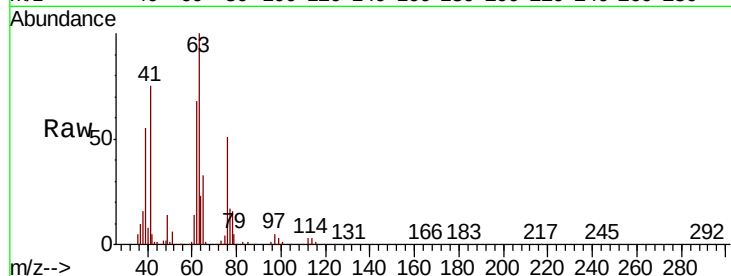
ClientSampleId :

VSTDIC002

Tot Ion:	63	Resp:	273812
Ion Ratio	Lower	Upper	
63	100		
41	75.2	56.2	84.4
62	67.9	54.4	81.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 1.868 ppbv

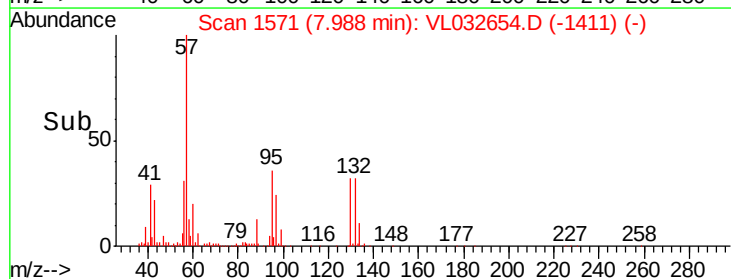
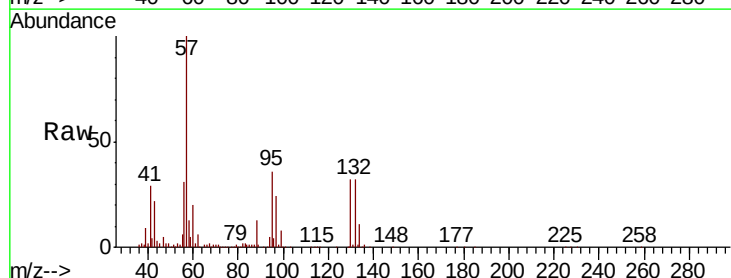
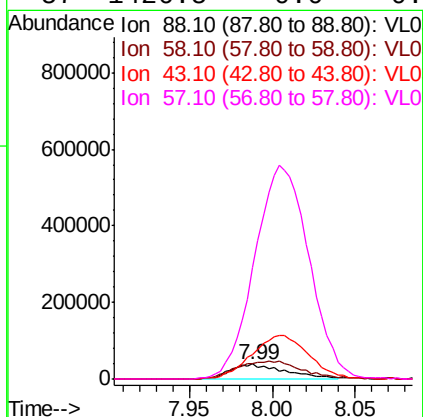
RT: 7.99 min Scan# 1571

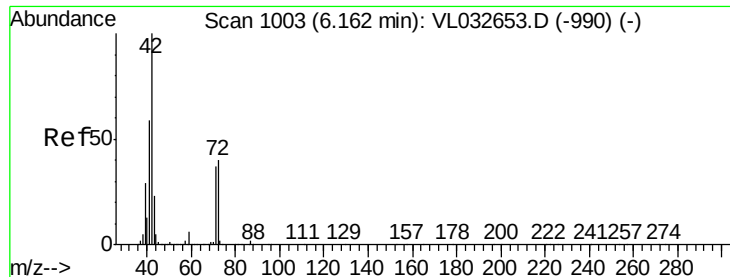
Delta R.T. 0.02 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:	88	Resp:	89878
Ion Ratio	Lower	Upper	
88	100		
58	145.6	104.0	156.0
43	308.9	0.0	0.0#
57	1426.5	0.0	0.0#





#41

Tetrahydrofuran

Concen: 2.170 ppbv

RT: 6.17 min Scan# 1006

Delta R.T. 0.01 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

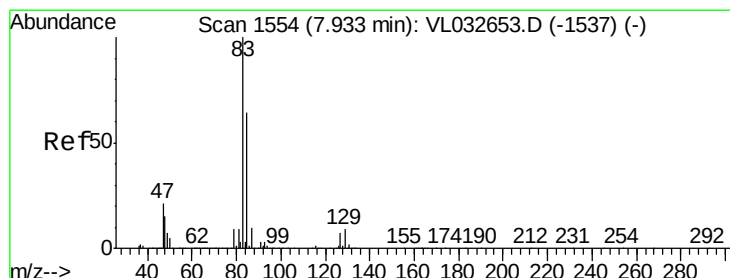
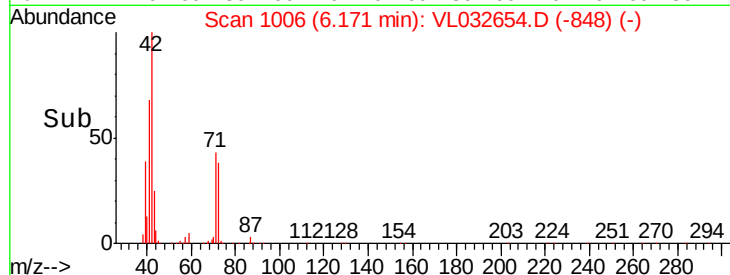
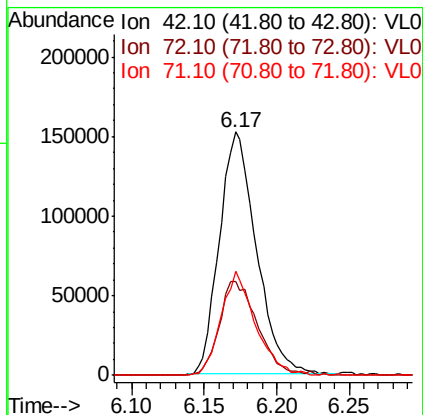
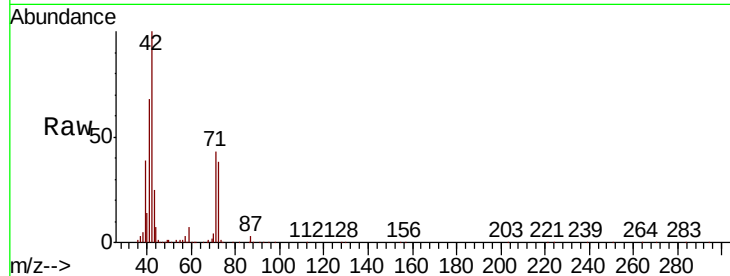
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	269919
Ion	Ratio	Lower	Upper
42	100		
72	40.6	32.4	48.6
71	40.1	31.3	46.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 1.929 ppbv

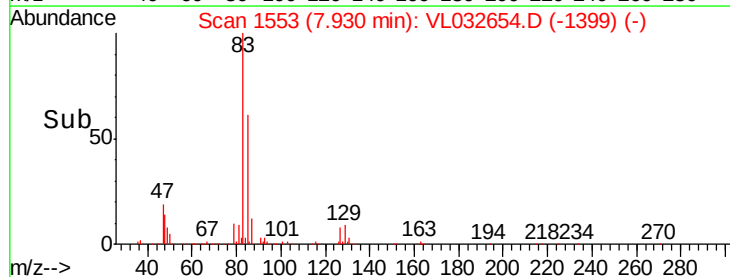
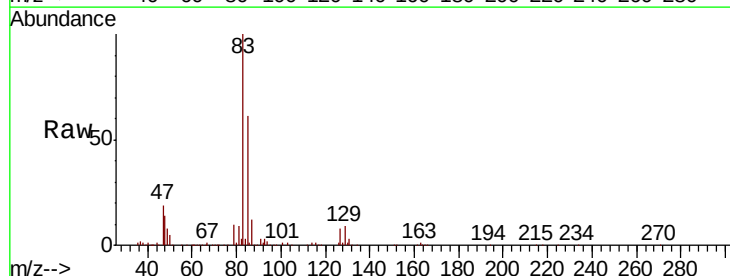
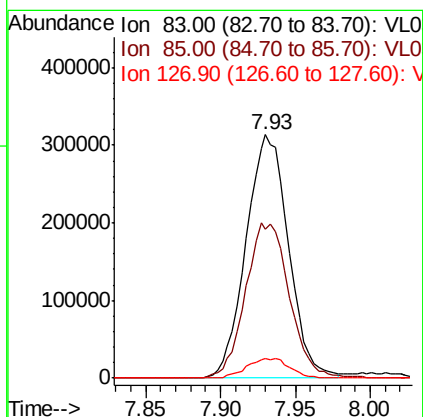
RT: 7.93 min Scan# 1553

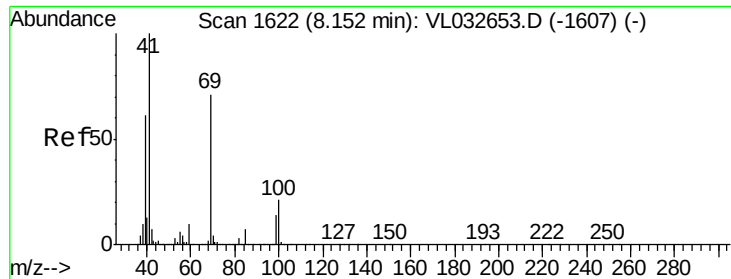
Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:	83	Resp:	617496
Ion	Ratio	Lower	Upper
83	100		
85	61.1	52.4	78.6
127	8.3	6.1	9.1





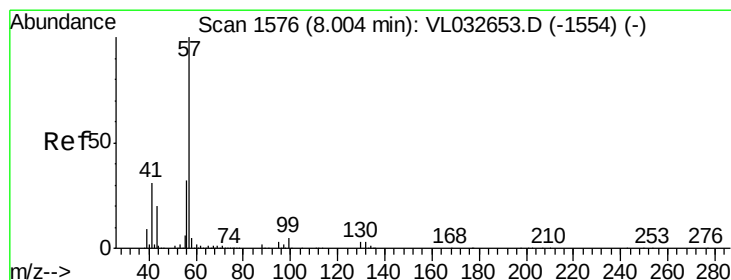
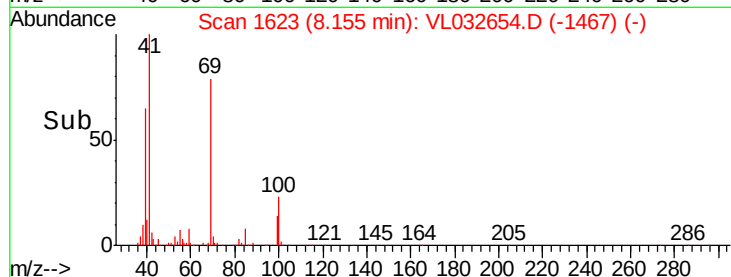
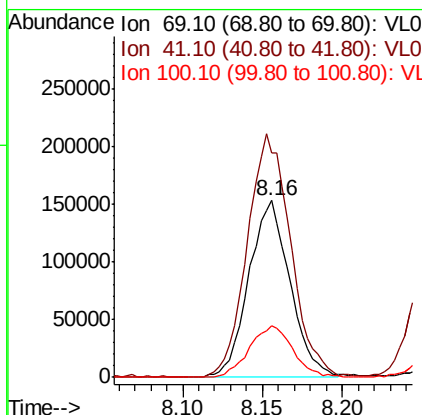
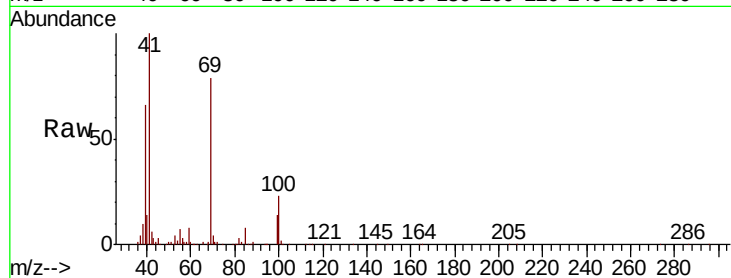
#43
Methyl Methacrylate
Concen: 2.042 ppbv
RT: 8.16 min Scan# 1623
Delta R.T. 0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	144.6	113.2	169.8
100	30.8	24.4	36.6

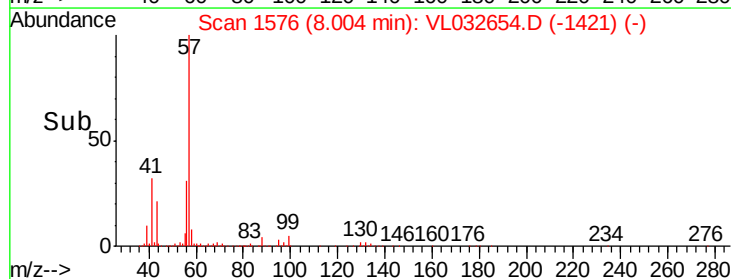
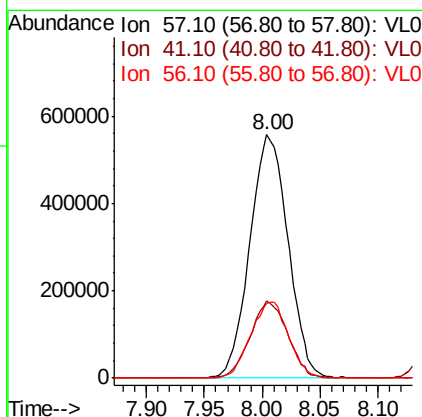
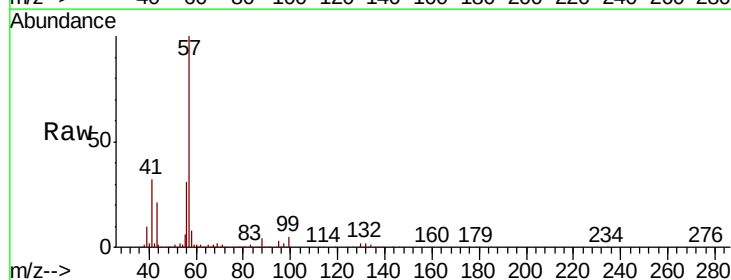
Manual Integrations
APPROVED

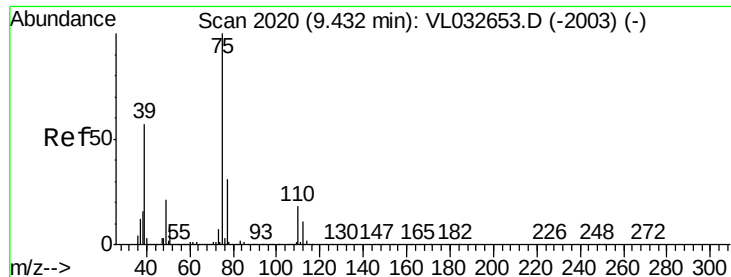
MMDadoda
10/24/2018 12:04:21 PM



#44
2,2,4-Trimethylpentane
Concen: 2.104 ppbv
RT: 8.00 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.5	24.7	37.1
56	31.1	25.0	37.4





#45

t-1,3-Dichloropropene

Concen: 2.047 ppbv

RT: 9.43 min Scan# 2020

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tot Ion: 75 Resp: 355383

Ion Ratio Lower Upper

75 100

77 27.5 25.3 37.9

Instrument :

MSVOA_L

ClientSampleId :

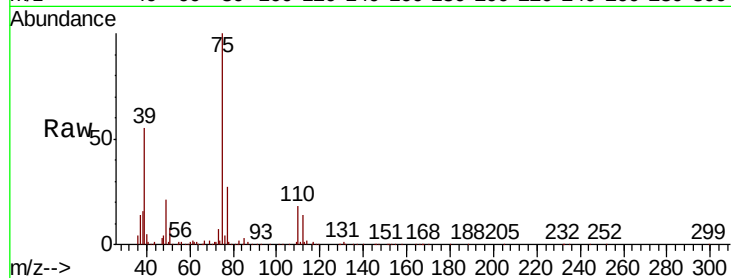
VSTDIC002

Manual Integrations

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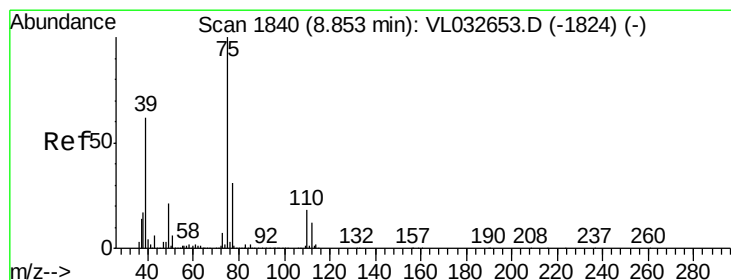
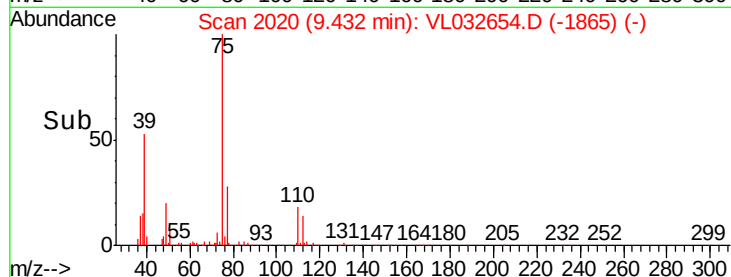
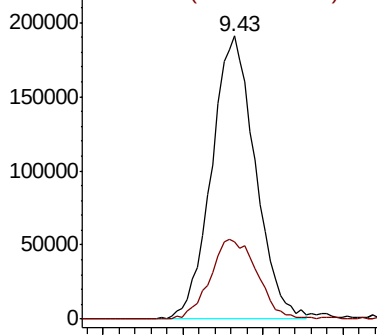
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 2.054 ppbv

RT: 8.85 min Scan# 1840

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

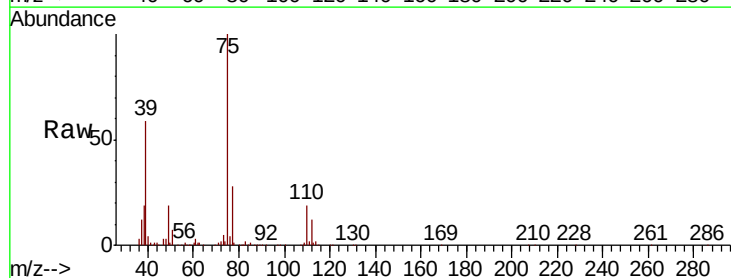
Tgt Ion: 75 Resp: 405931

Ion Ratio Lower Upper

75 100

39 58.9 50.9 76.3

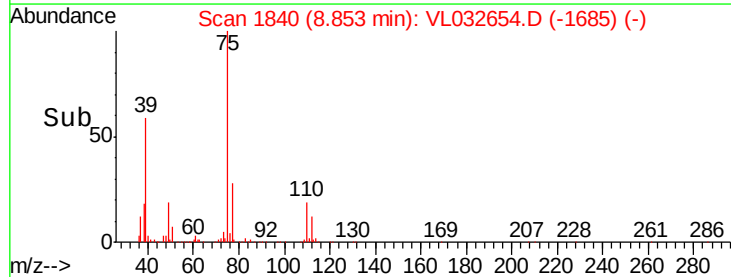
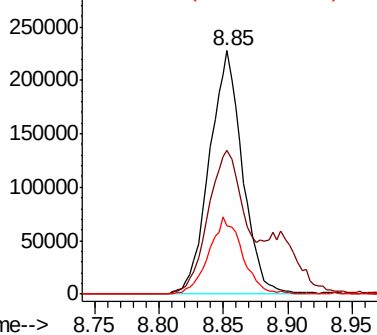
77 28.2 25.8 38.6

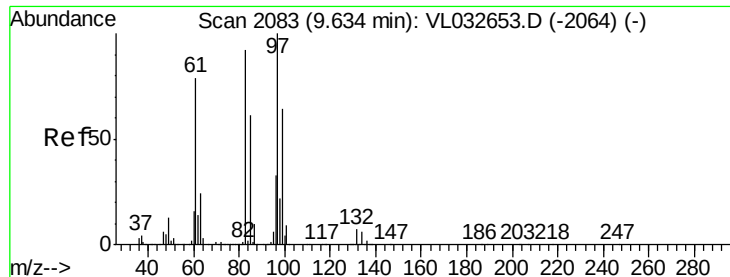


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





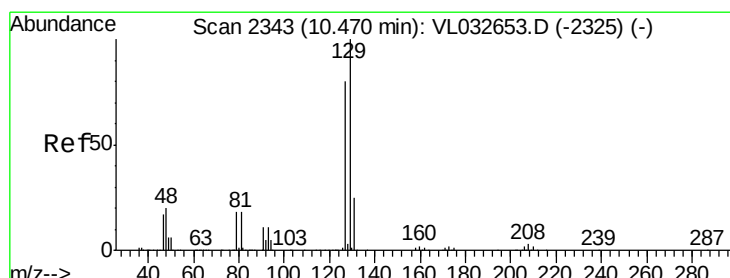
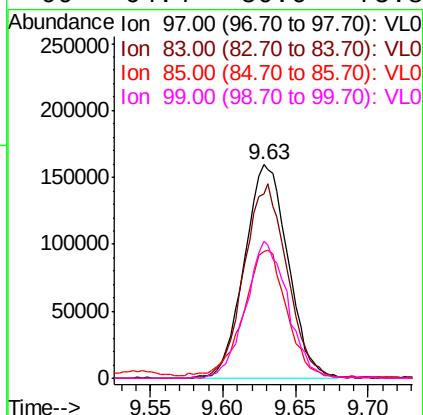
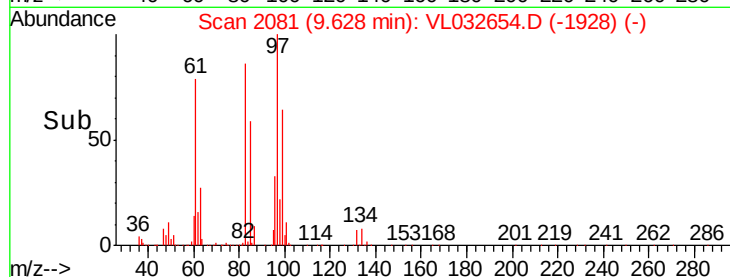
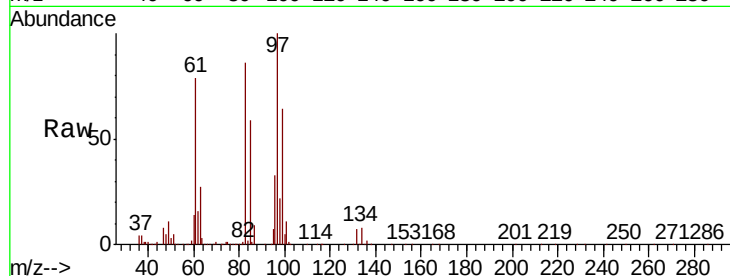
#47
 1,1,2-Trichloroethane
 Concen: 2.008 ppbv
 RT: 9.63 min Scan# 2081
 Delta R.T. -0.01 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		334224		
83	86.3	73.5	110.3		
85	58.9	45.8	68.6		
99	64.4	50.6	75.8		

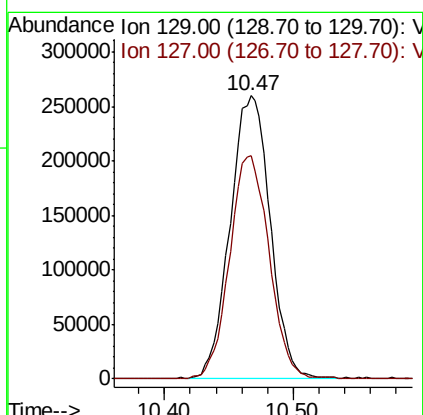
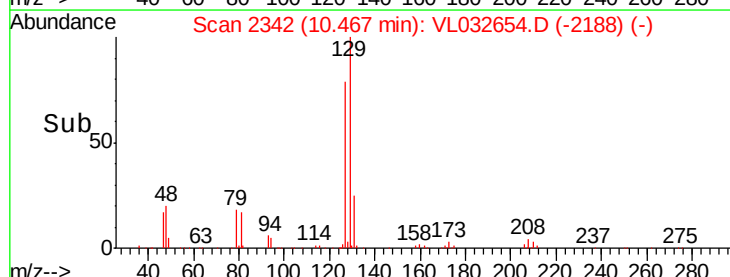
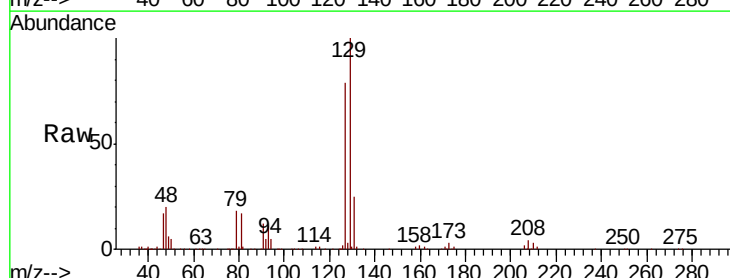
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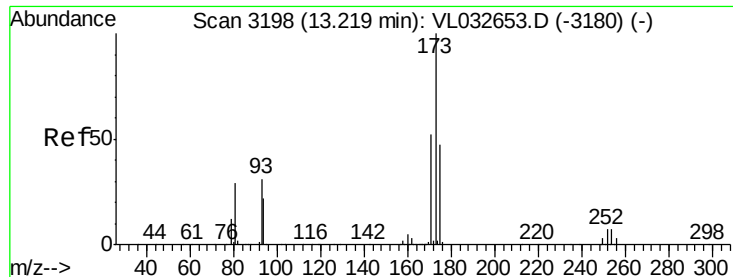
MMDadoda
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#48
 Dibromochloromethane
 Concen: 1.975 ppbv
 RT: 10.47 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		558477		
127	78.4	39.1	117.5		





#49

Bromoform

Concen: 2.063 ppbv

RT: 13.22 min Scan# 3198

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

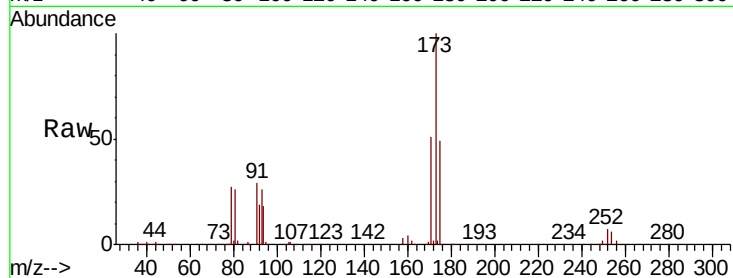
ClientSampleId :

VSTDIC002

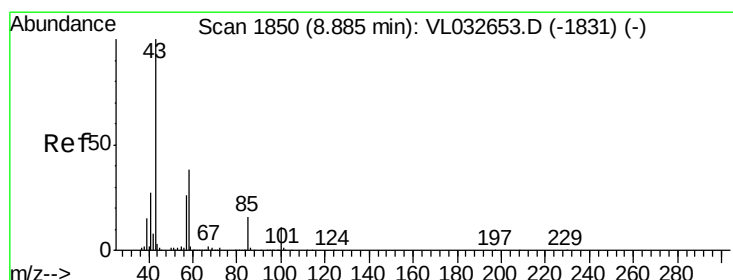
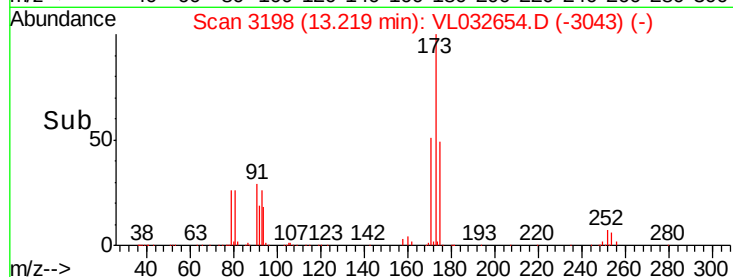
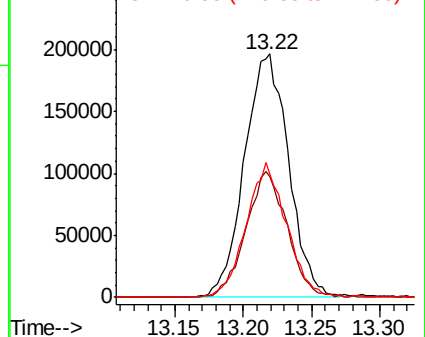
Tot Ion:	173	Resp:	440726
Ion Ratio	Lower	Upper	
173	100		
175	48.6	39.0	58.4
171	51.3	42.2	63.2

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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: 2.115 ppbv

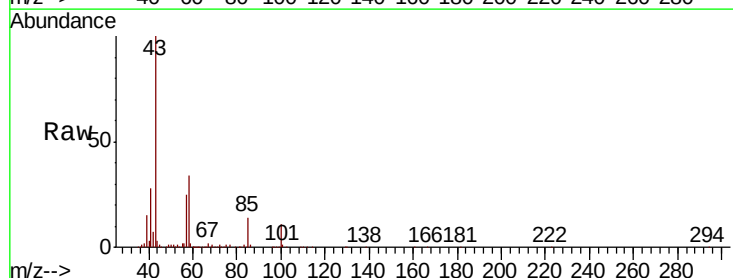
RT: 8.89 min Scan# 1852

Delta R.T. 0.01 min

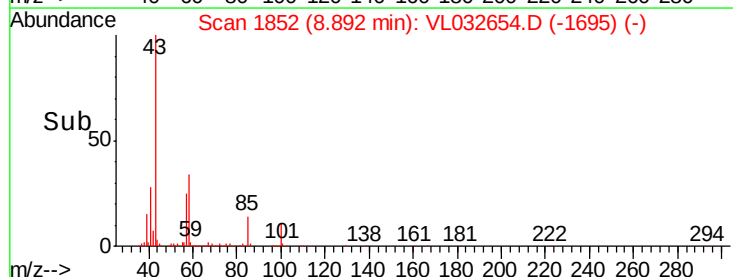
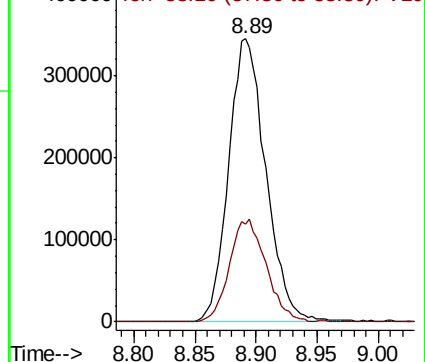
Lab File: VL032654.D

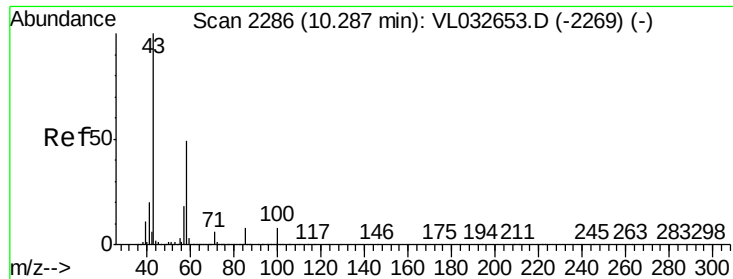
Acq: 18 Oct 2018 16:47

Tgt Ion:	43	Resp:	729882
Ion Ratio	Lower	Upper	
43	100		
58	36.2	29.7	44.5



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





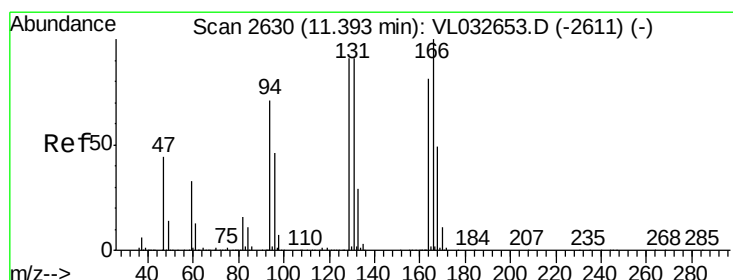
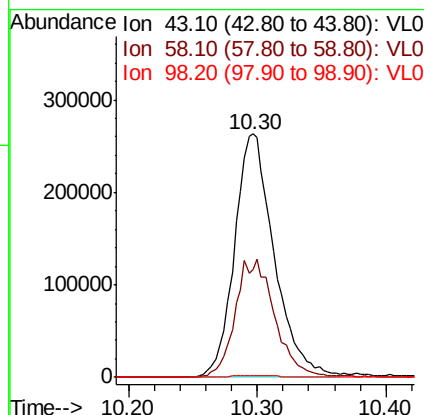
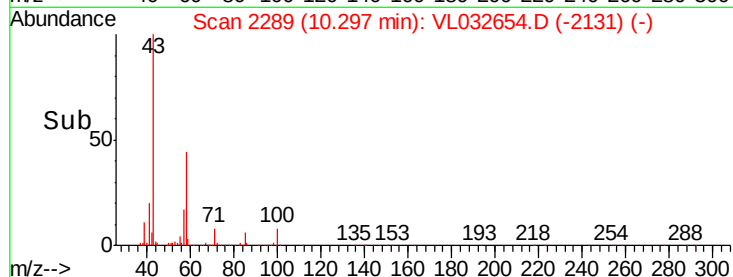
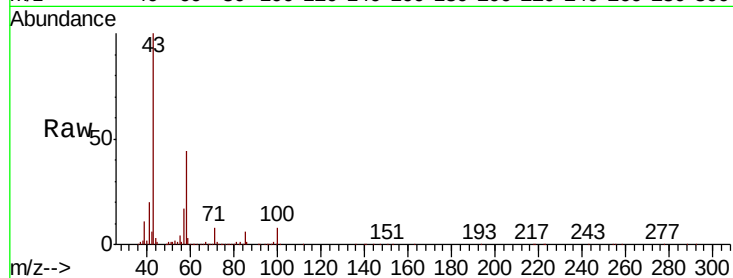
#51
2-Hexanone
Concen: 2.074 ppbv
RT: 10.30 min Scan# 2289
Delta R.T. 0.01 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.5	40.4	60.6
98	1.1	0.4	0.6

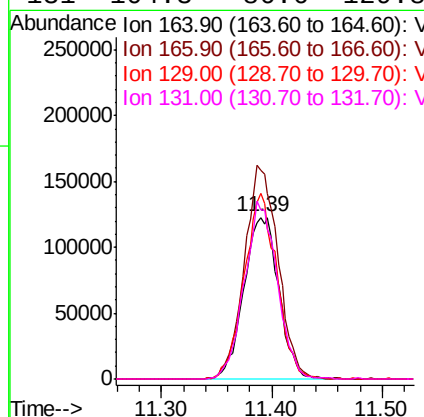
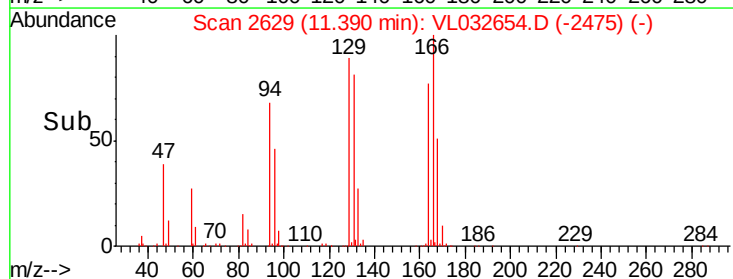
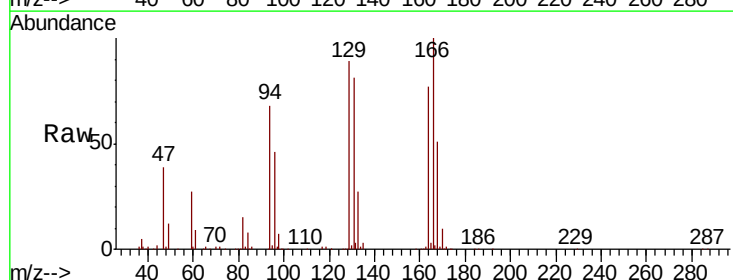
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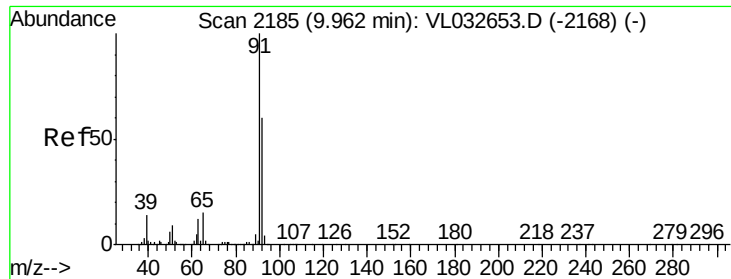
MMDadoda
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#52
Tetrachloroethene
Concen: 2.391 ppbv m
RT: 11.39 min Scan# 2629
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.1	100.5	150.7
129	115.1	90.0	135.0
131	104.3	86.6	129.8





#53

Toluene

Concen: 2.234 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 872262

Ion Ratio Lower Upper

91 100

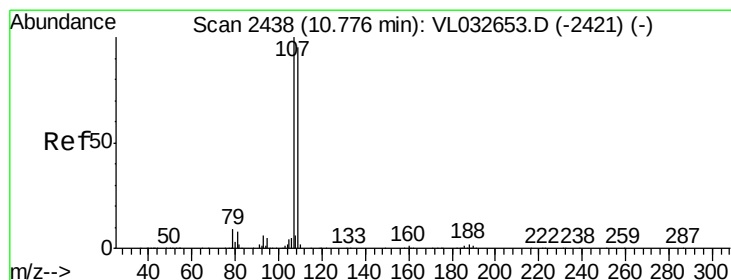
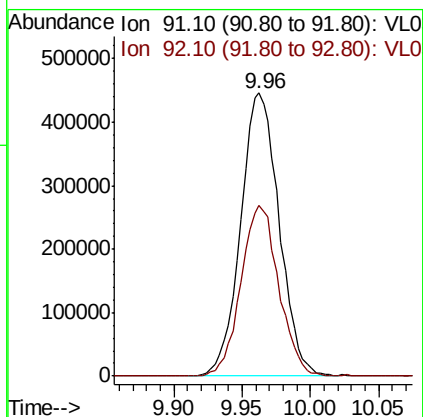
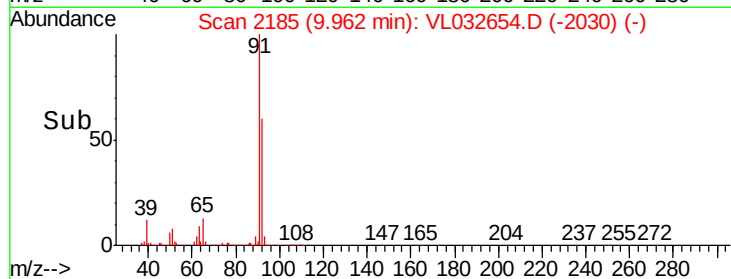
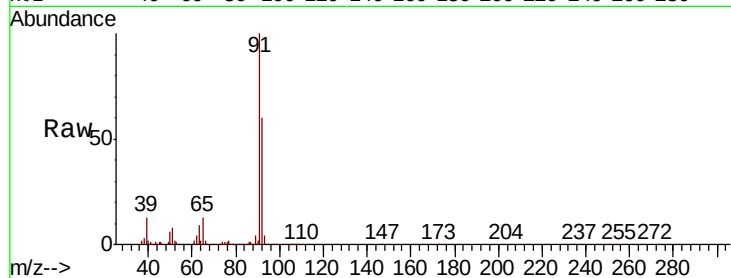
92 59.9 48.4 72.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 1.831 ppbv

RT: 10.77 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032654.D

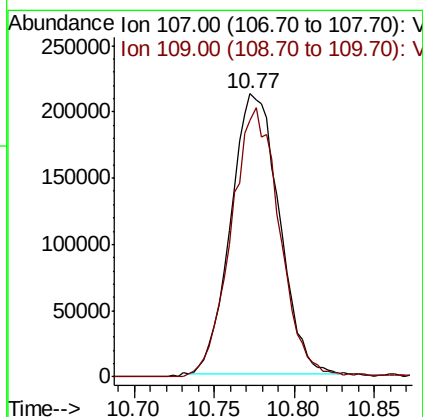
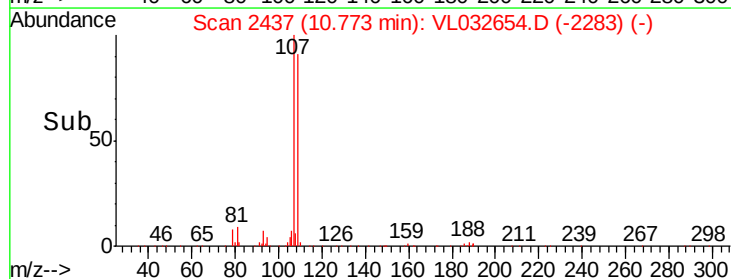
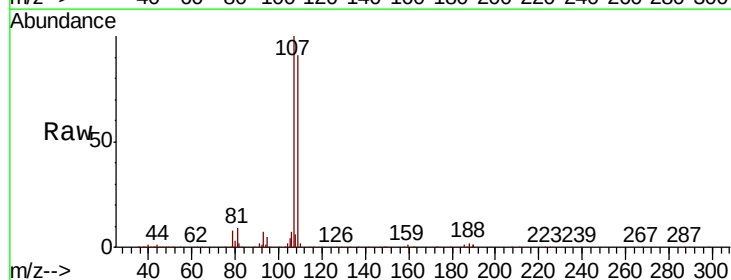
Acq: 18 Oct 2018 16:47

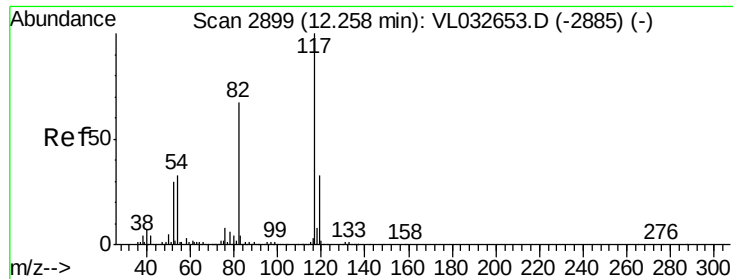
Tgt Ion: 107 Resp: 436519

Ion Ratio Lower Upper

107 100

109 90.5 75.3 112.9





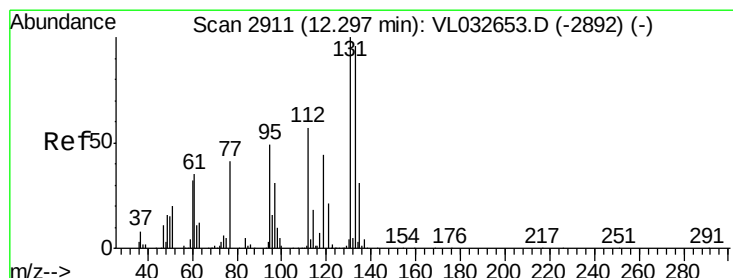
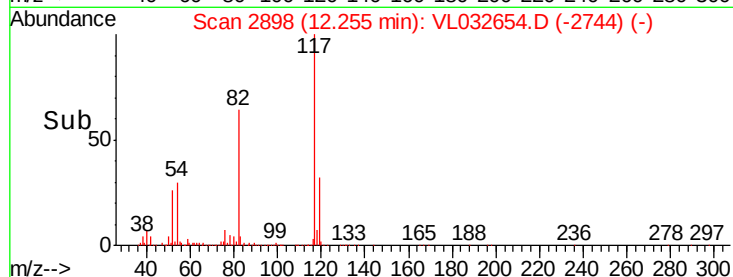
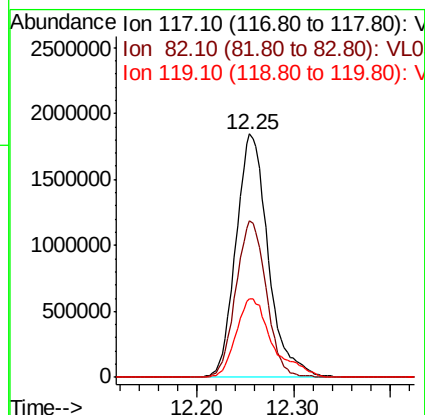
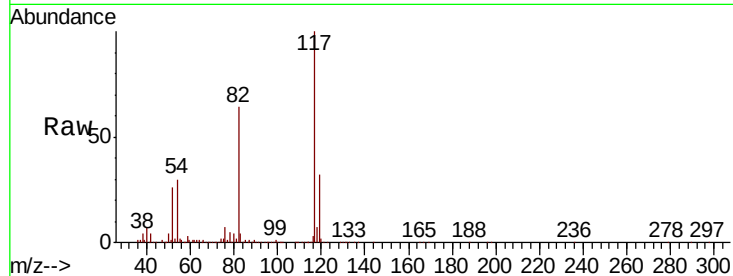
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:117 Resp: 4275144
Ion Ratio Lower Upper
117 100
82 61.1 52.7 79.1
119 36.4 26.7 40.1

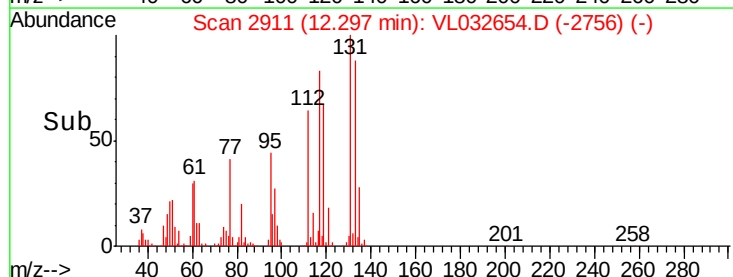
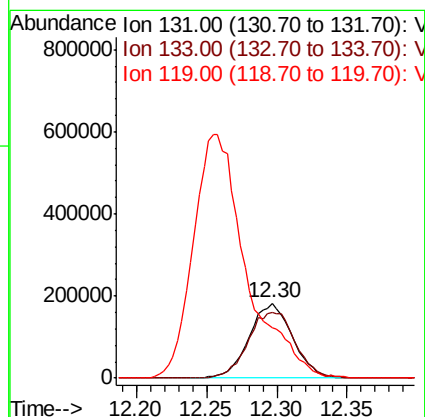
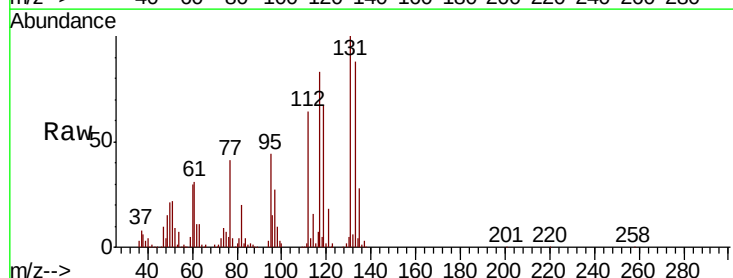
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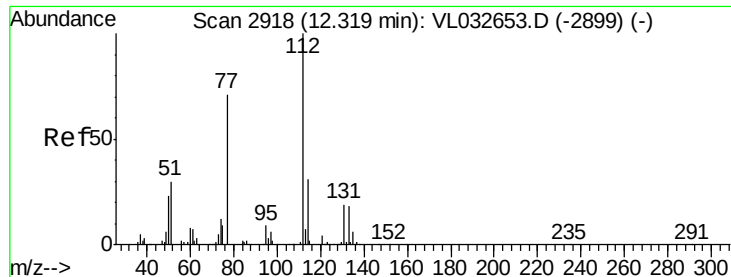
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.990 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion:131 Resp: 390623
Ion Ratio Lower Upper
131 100
133 96.1 75.4 113.2
119 397.8 49.1 73.7#





#57

Chlorobenzene

Concen: 2.015 ppbv

RT: 12.32 min Scan# 2918

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

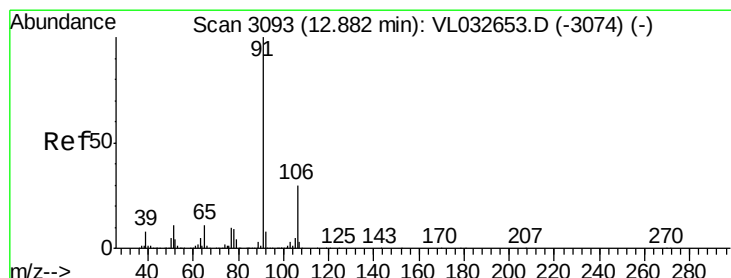
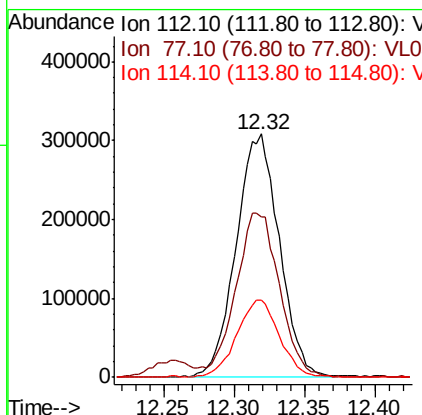
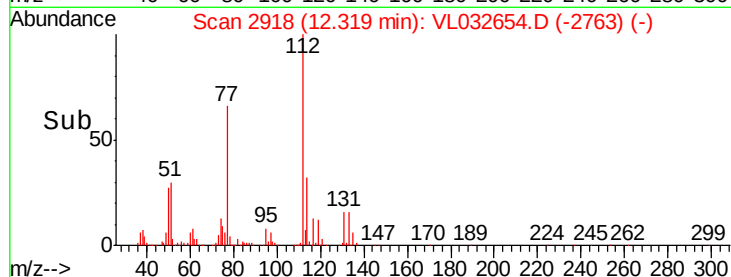
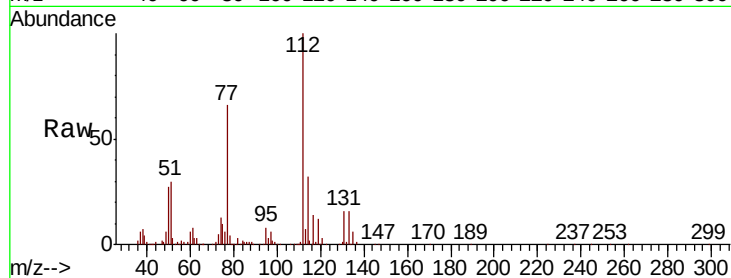
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	655150
Ion Ratio	Lower	Upper	
112	100		
77	65.7	56.8	85.2
114	31.8	30.3	37.1

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#58

Ethyl Benzene

Concen: 2.284 ppbv

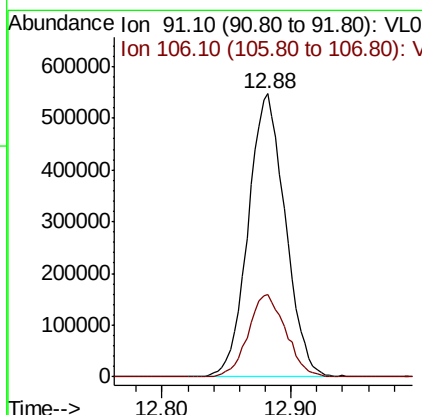
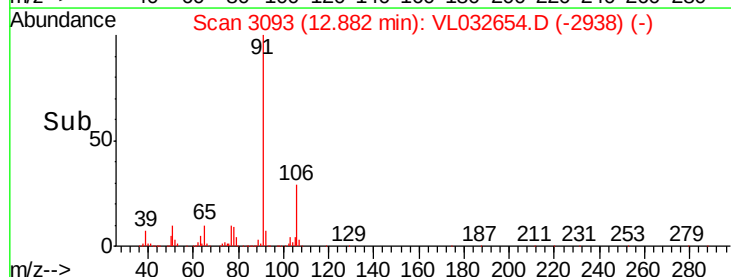
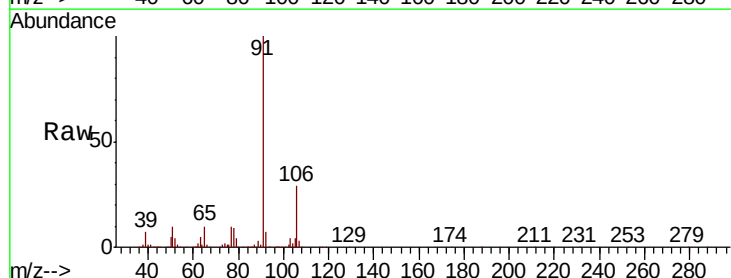
RT: 12.88 min Scan# 3093

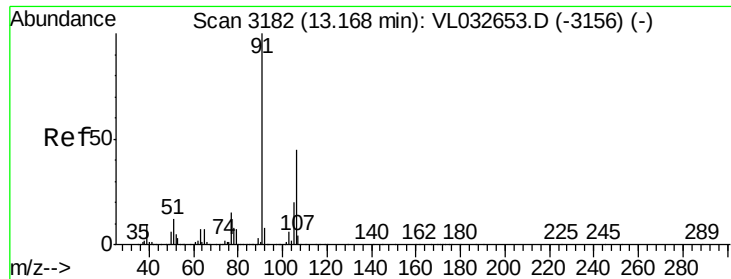
Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:	91	Resp:	1096606
Ion Ratio	Lower	Upper	
91	100		
106	29.2	24.2	36.2





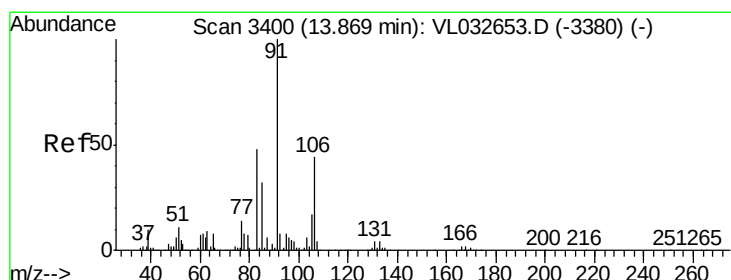
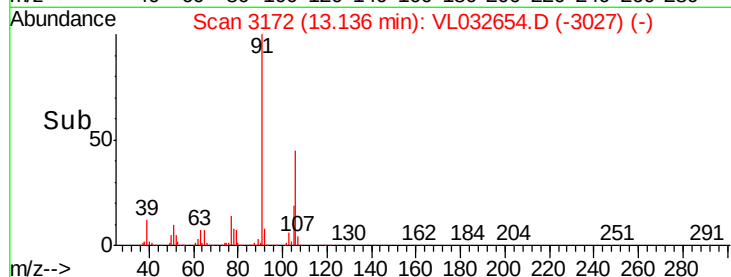
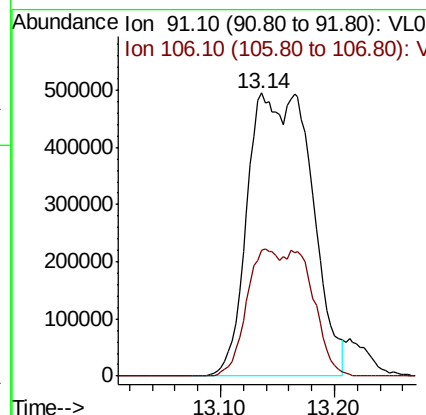
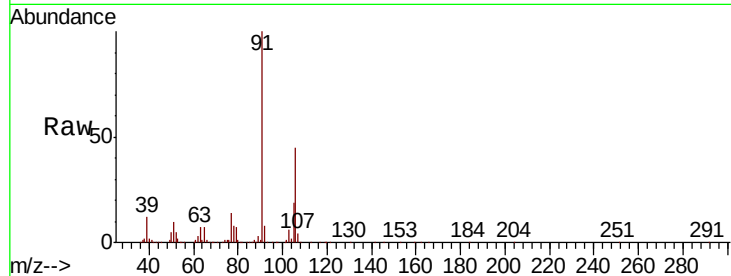
#59
m/p-Xylene
Concen: 4.495 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. -0.03 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1926416
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#

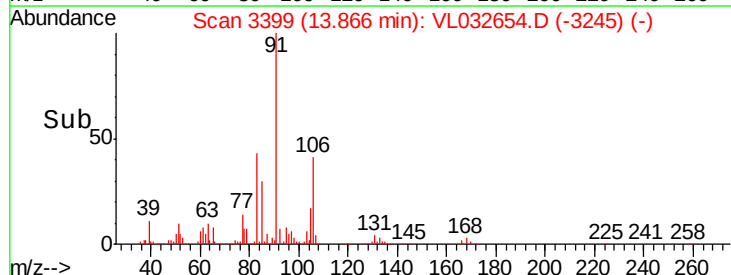
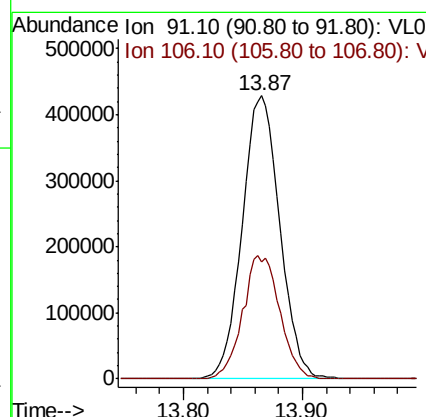
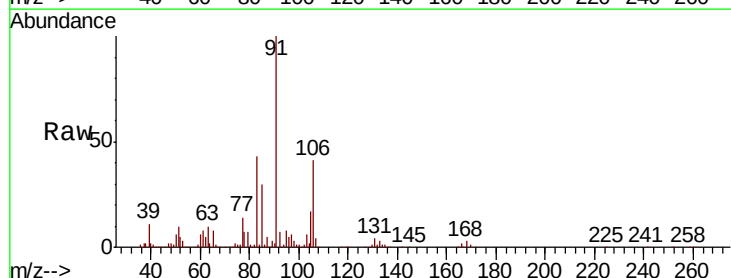
Manual Integrations
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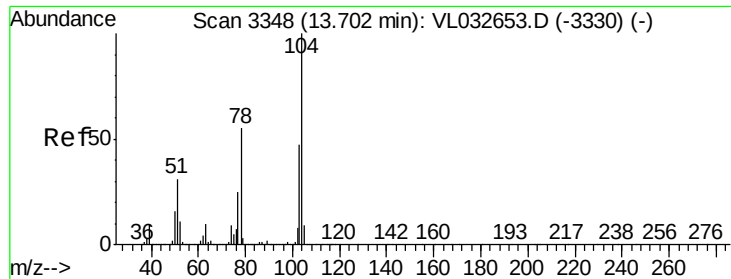
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#60
o-Xylene
Concen: 2.189 ppbv
RT: 13.87 min Scan# 3399
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion: 91 Resp: 934753
Ion Ratio Lower Upper
91 100
106 43.1 22.1 66.1





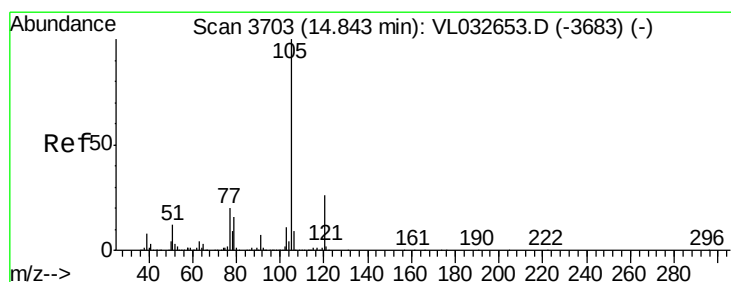
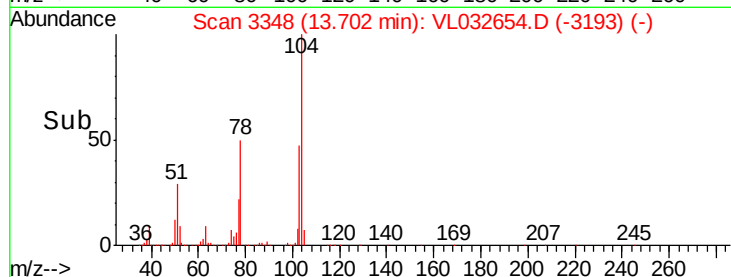
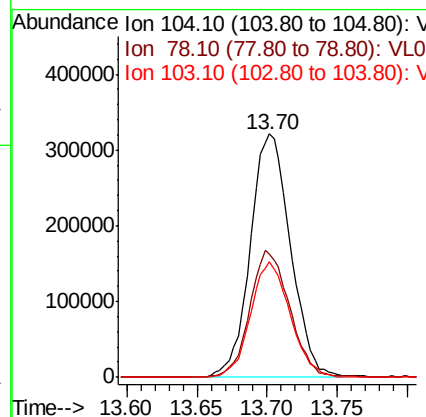
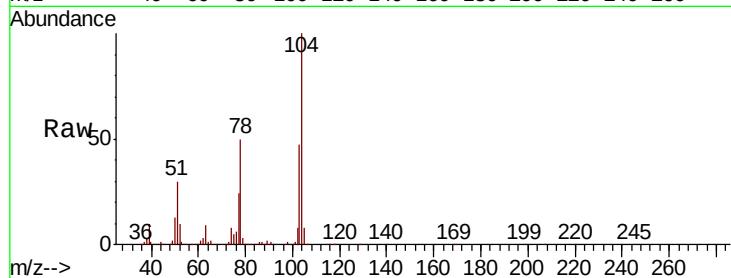
#61
Stvrene
Concen: 2.475 ppbv
RT: 13.70 min Scan# 3348
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.7	42.8	64.2
103	47.1	37.4	56.0

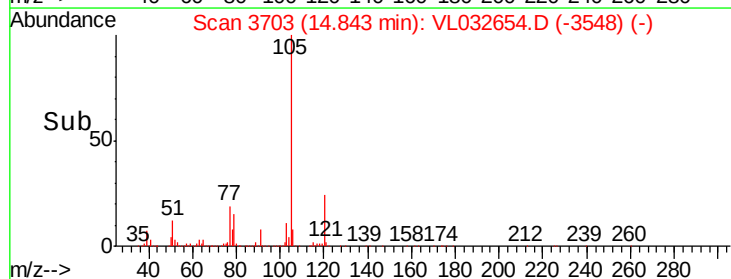
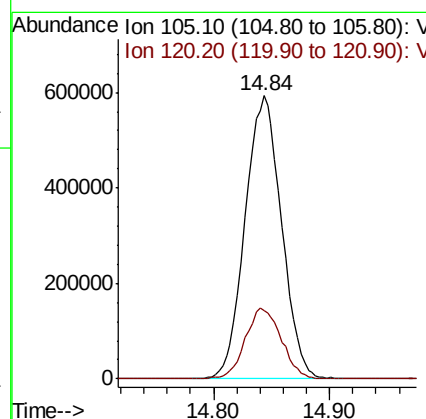
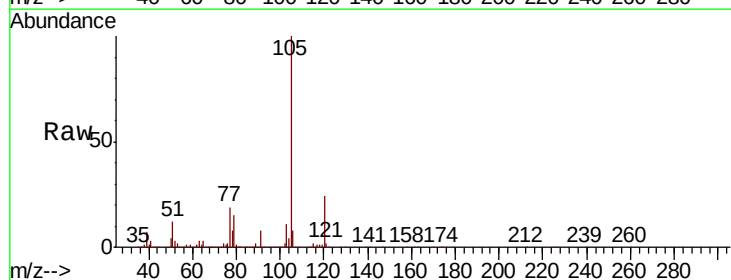
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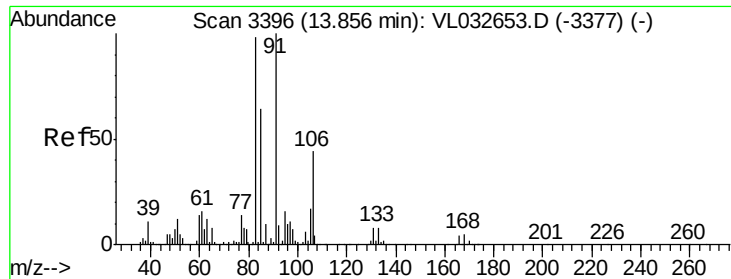
MMDadoda
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#62
Isopropylbenzene
Concen: 2.128 ppbv
RT: 14.84 min Scan# 3703
Delta R.T. -0.00 min
Lab File: VL032654.D
Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.8	20.5	30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 1.795 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

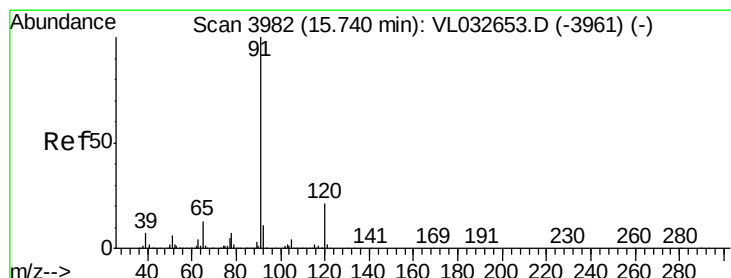
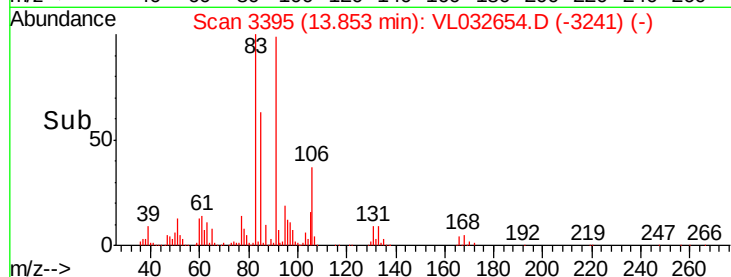
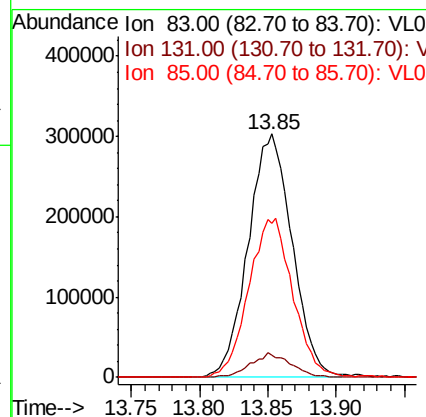
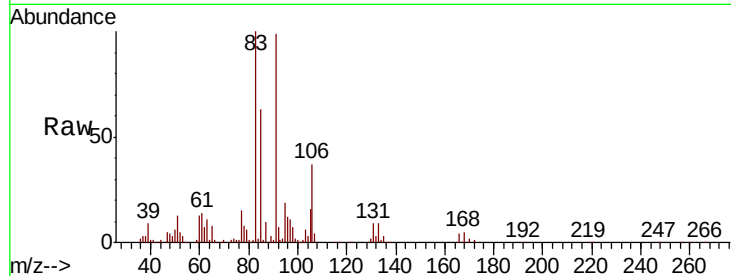
ClientSampleId :

VSTDIC002

Tot Ion:	83	Resp:	676676
Ion Ratio	Lower	Upper	
83	100		
131	9.2	4.3	12.9
85	65.8	32.3	96.9

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#64

n-propylbenzene

Concen: 2.099 ppbv

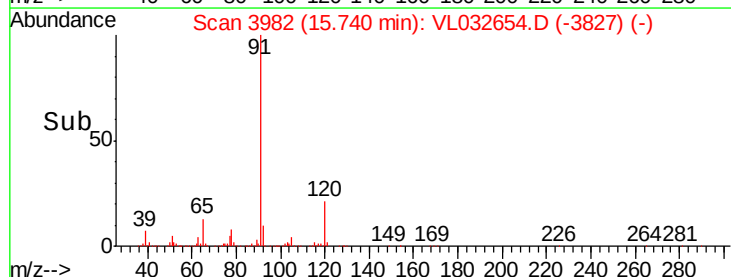
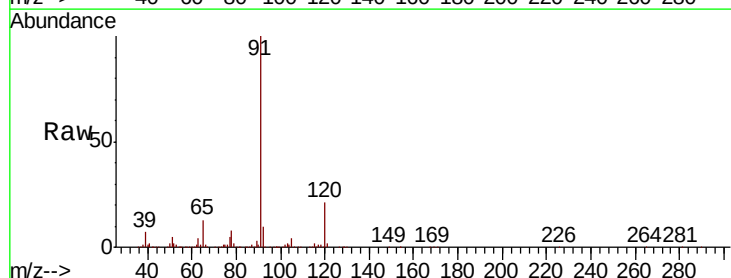
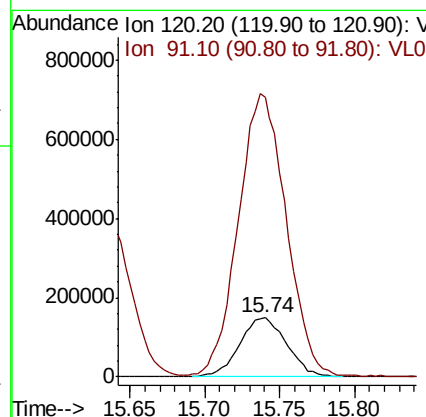
RT: 15.74 min Scan# 3982

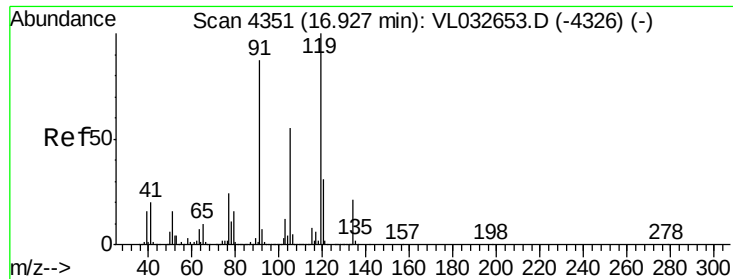
Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:	120	Resp:	323538
Ion Ratio	Lower	Upper	
120	100		
91	495.2	390.2	585.2





#65

tert-Butylbenzene

Concen: 2.211 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:119 Resp: 1141211

Ion Ratio Lower Upper

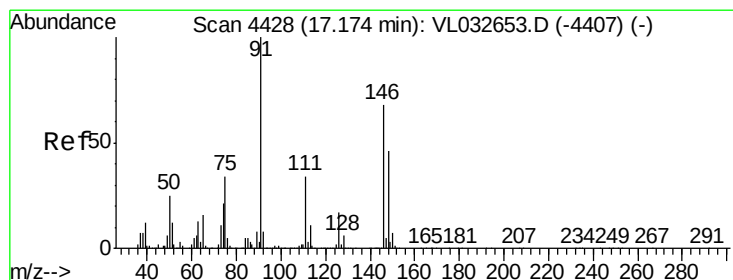
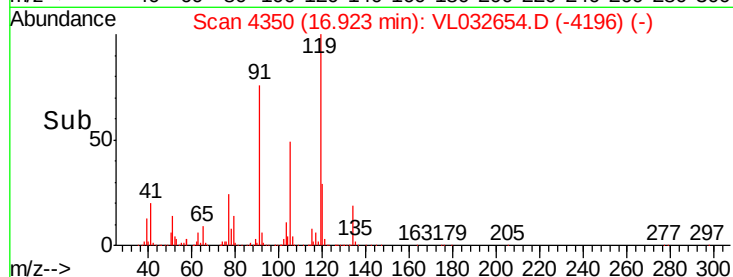
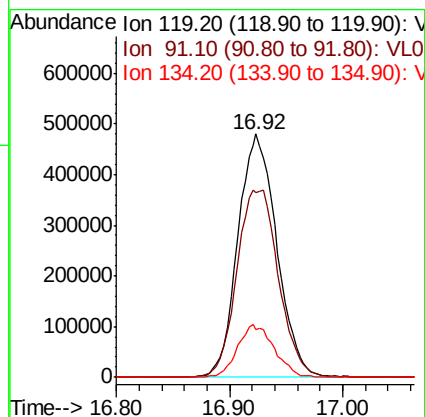
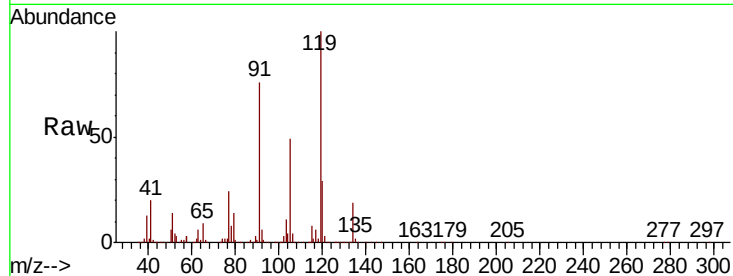
119 100

91 83.4 67.8 101.8

134 20.4 15.8 23.8

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#66

Benzyl Chloride

Concen: 1.951 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

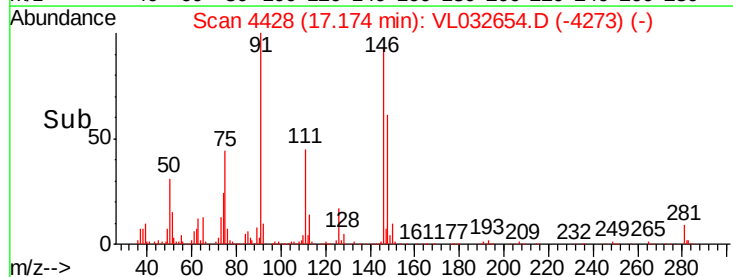
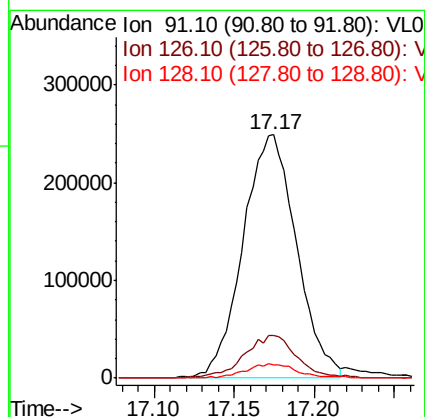
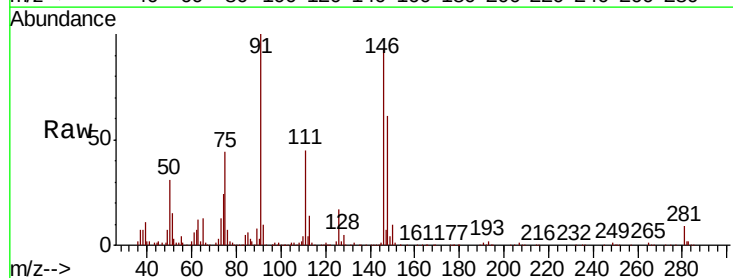
Tgt Ion: 91 Resp: 567982

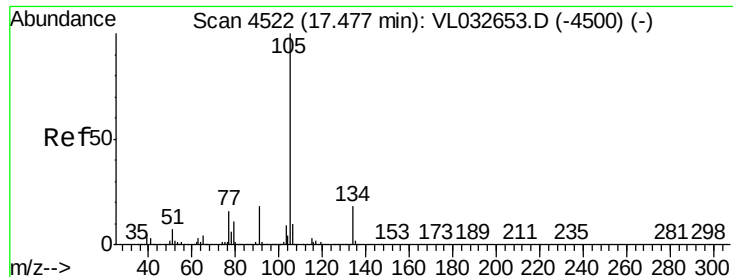
Ion Ratio Lower Upper

91 100

126 17.7 13.9 20.9

128 5.8 4.3 6.5





#67

sec-Butylbenzene

Concen: 2.077 ppbv

RT: 17.47 min Scan# 4521

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1613953

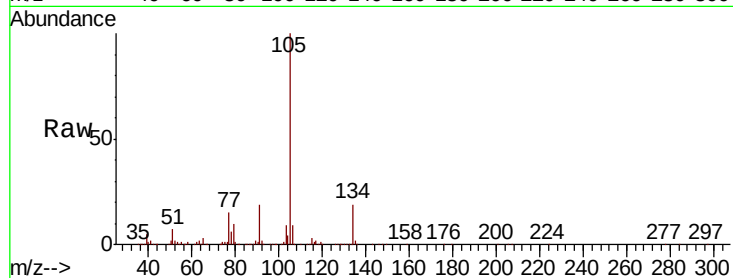
Ion Ratio Lower Upper

105 100

134 18.0 14.2 21.2

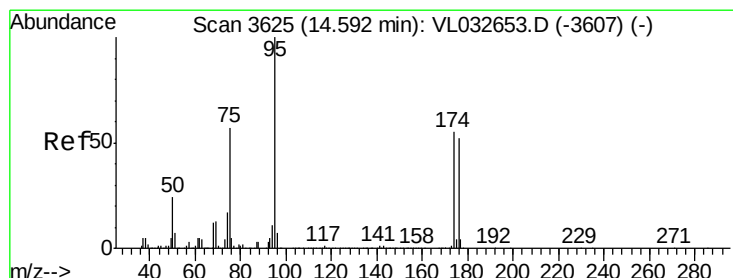
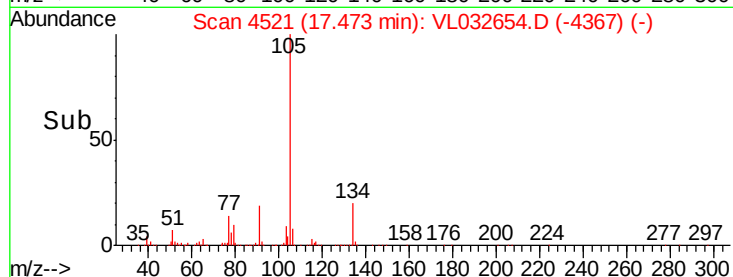
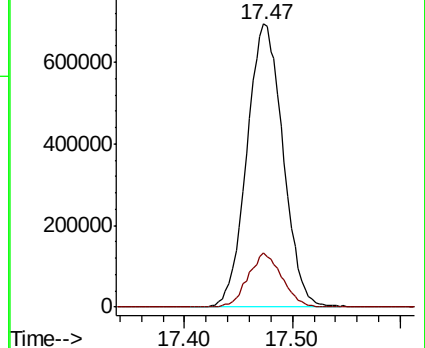
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.690 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

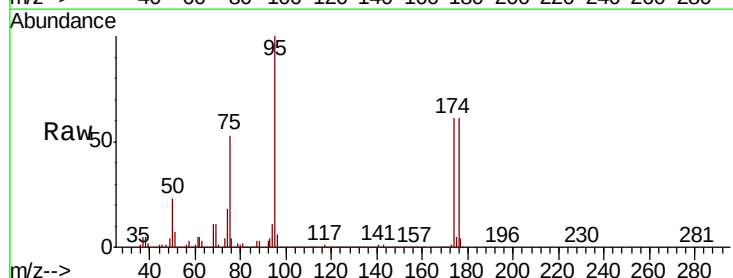
Tgt Ion: 95 Resp: 3119050

Ion Ratio Lower Upper

95 100

174 64.4 46.0 69.0

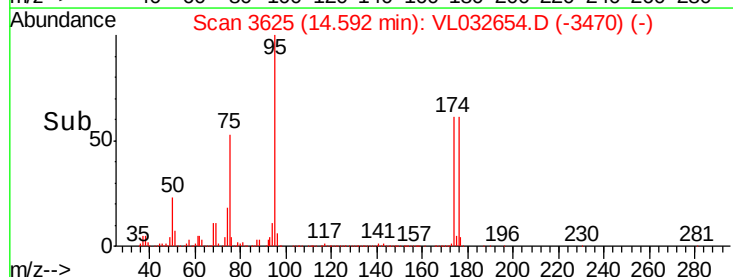
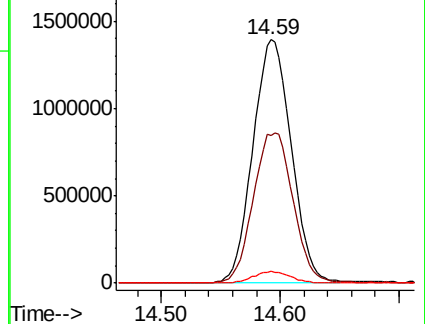
175 4.6 3.4 5.0

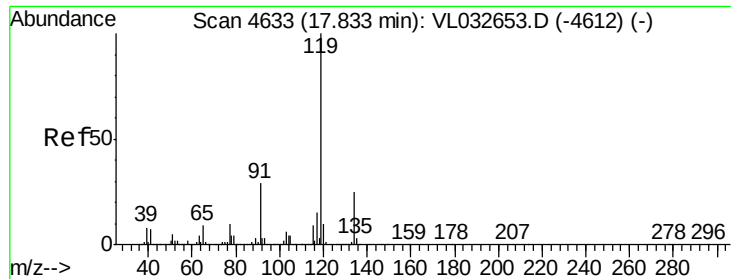


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





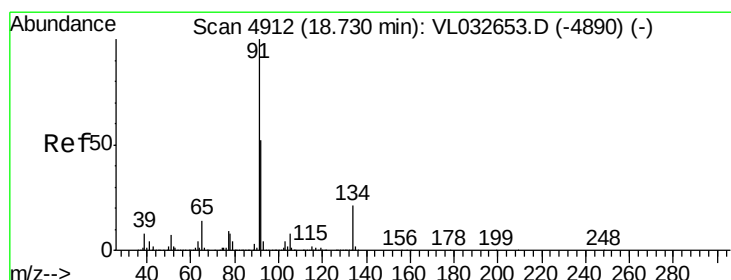
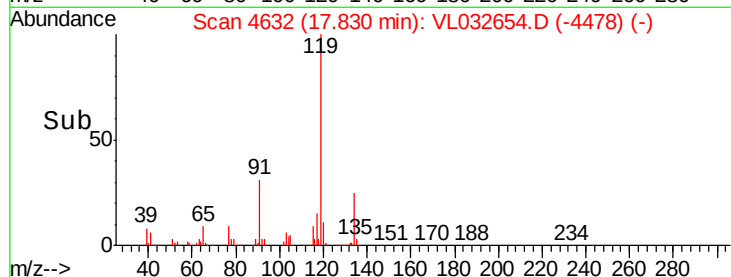
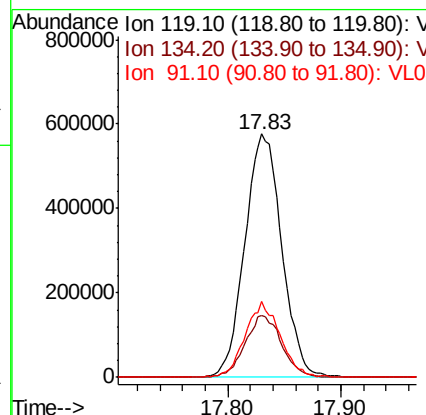
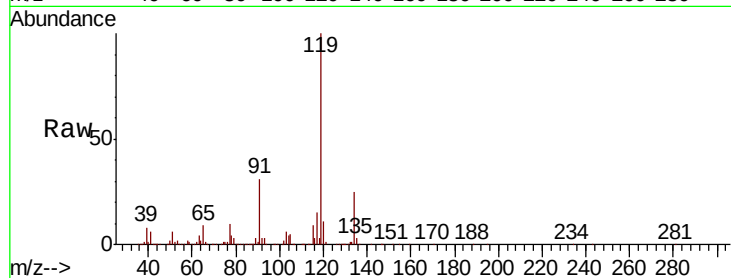
#69
 p-Isopropyltoluene
 Concen: 2.218 ppbv
 RT: 17.83 min Scan# 4632
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.2	30.2
91	29.5	24.0	36.0

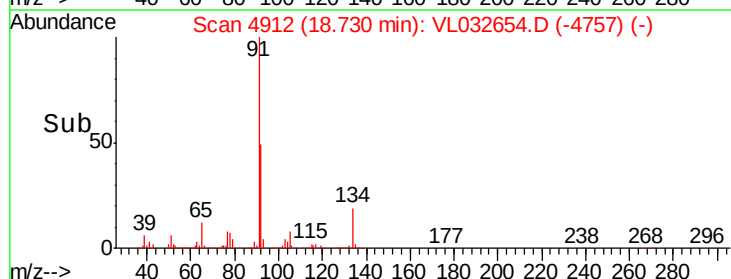
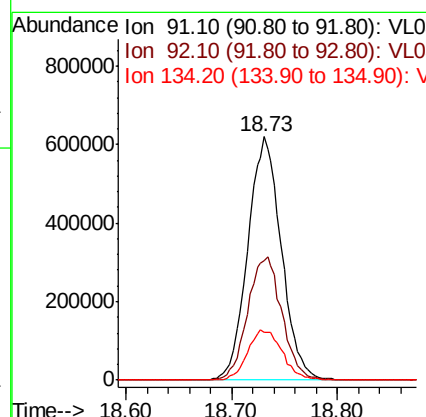
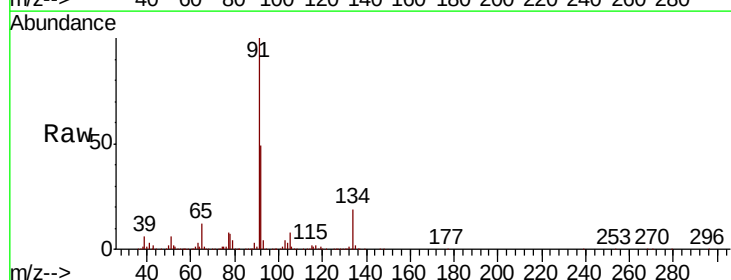
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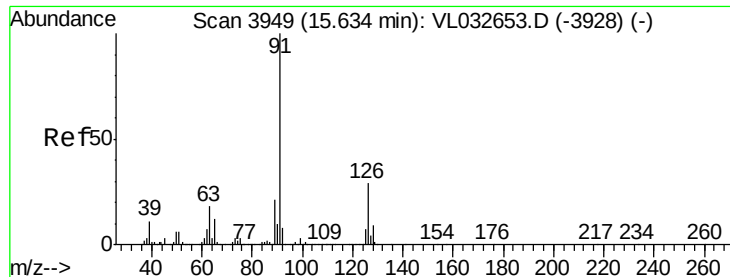
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#70
 n-Butylbenzene
 Concen: 2.111 ppbv
 RT: 18.73 min Scan# 4912
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.9	43.0	64.4
134	21.5	17.0	25.6





#71

2-Chlorotoluene

Concen: 2.081 ppbv

RT: 15.63 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 935883

Ion Ratio Lower Upper

91 100

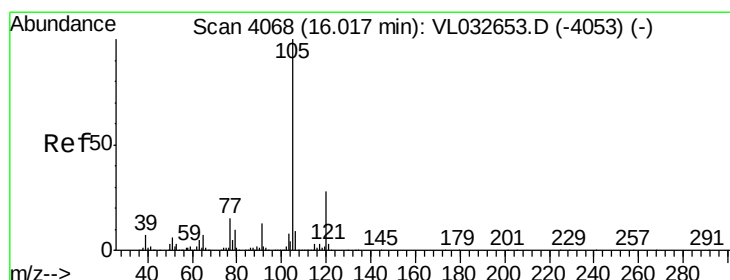
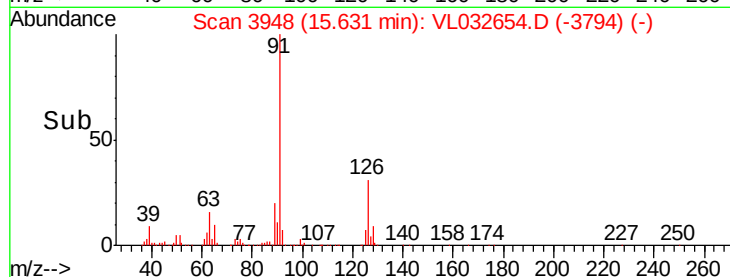
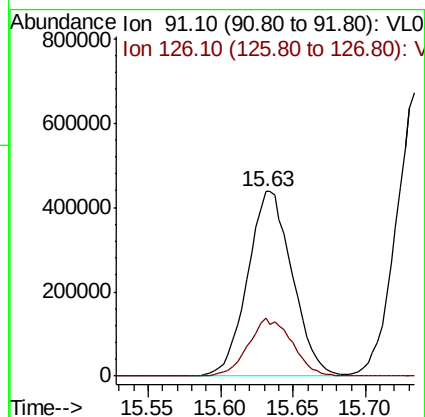
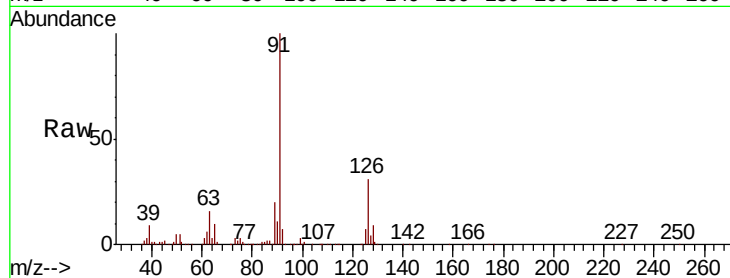
126 30.9 11.8 47.4

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#72

4-Ethyltoluene

Concen: 2.194 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:105 Resp: 1012711

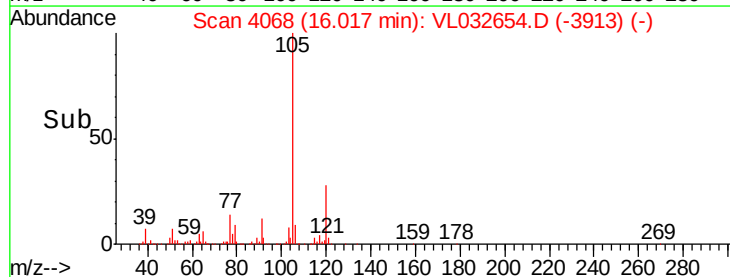
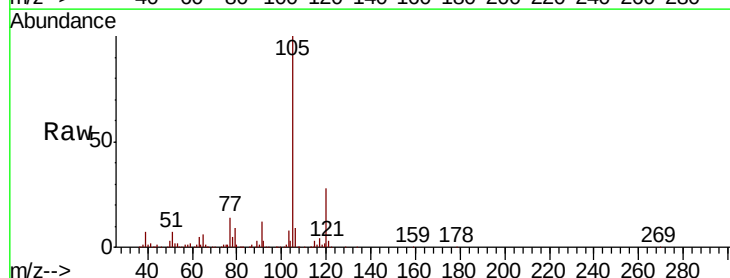
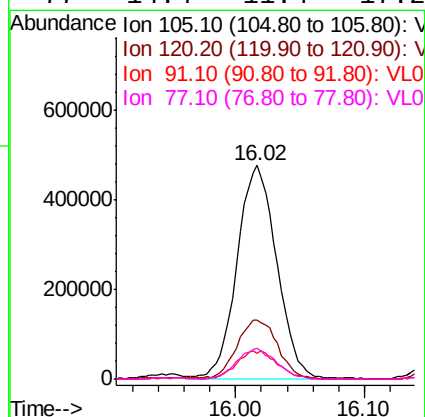
Ion Ratio Lower Upper

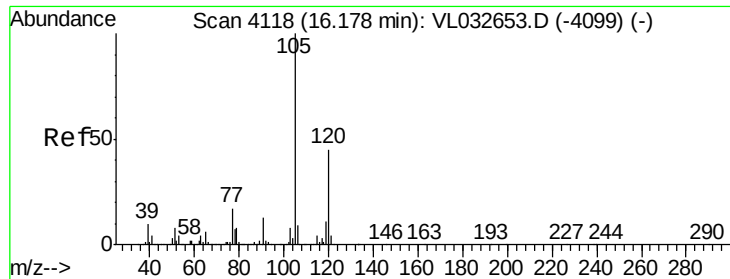
105 100

120 28.9 23.7 35.5

91 13.6 10.4 15.6

77 14.4 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 2.077 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. -0.01 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 953592

Ion Ratio Lower Upper

105 100

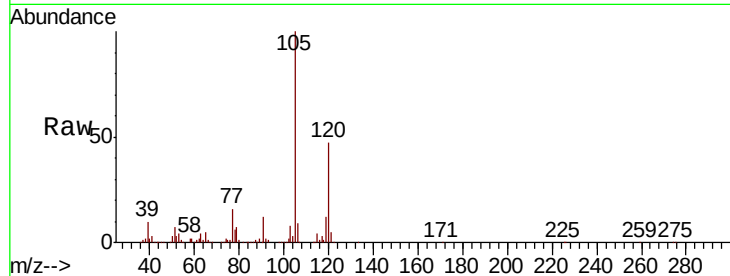
120 46.7 35.4 53.2

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.17

400000

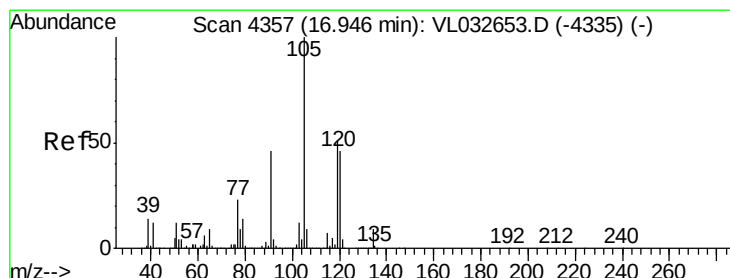
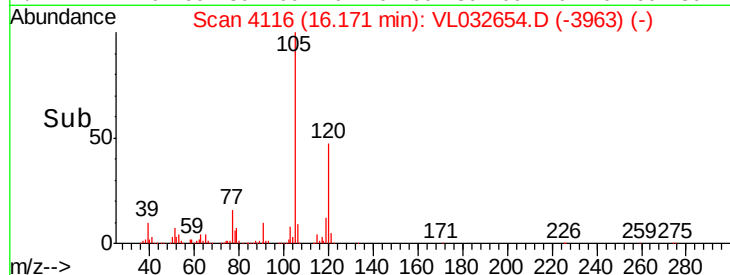
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.047 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:105 Resp: 1034614

Ion Ratio Lower Upper

105 100

120 46.0 35.8 53.8

91 52.7 33.2 49.8#

77 22.5 16.2 24.4

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

16.94

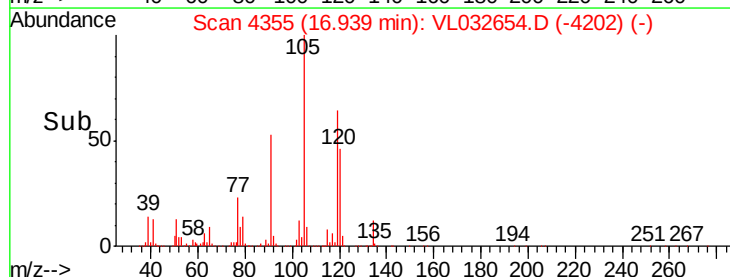
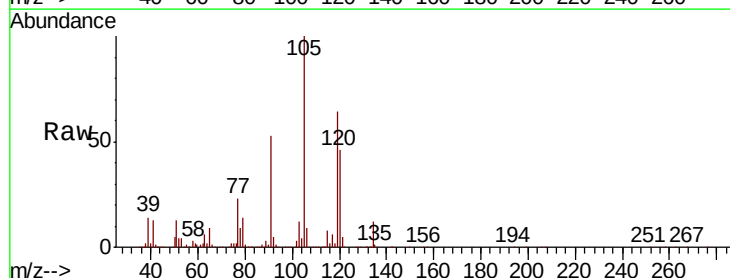
600000

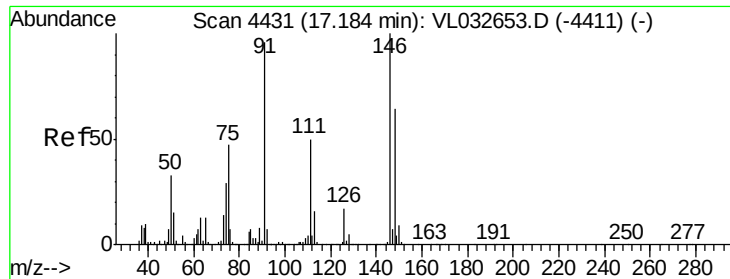
400000

200000

0

Time-->





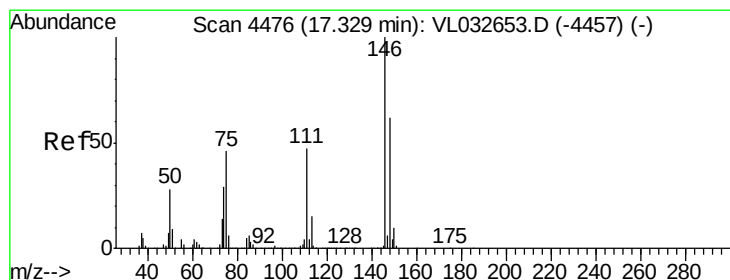
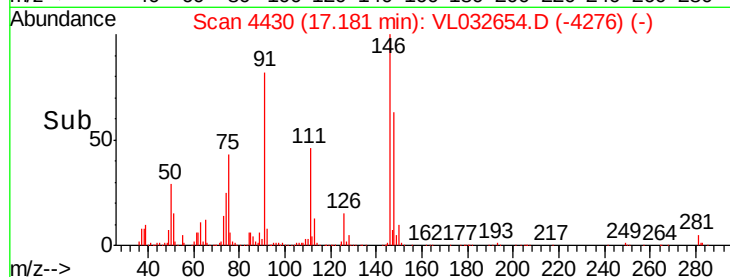
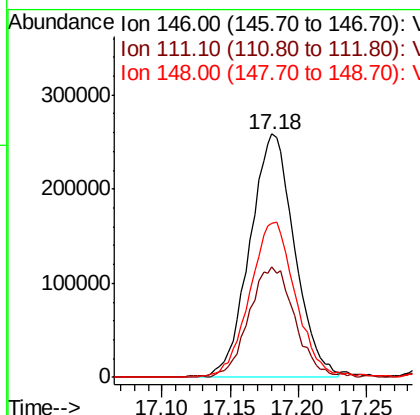
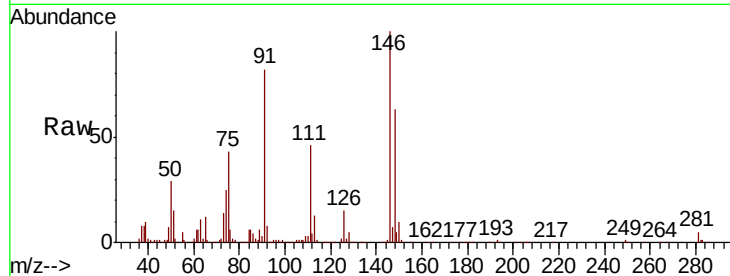
#75
 1,3-Dichlorobenzene
 Concen: 1.995 ppbv
 RT: 17.18 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	24.4	73.2
148	66.0	31.9	95.9

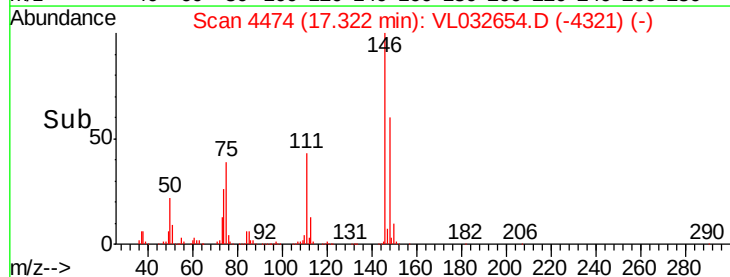
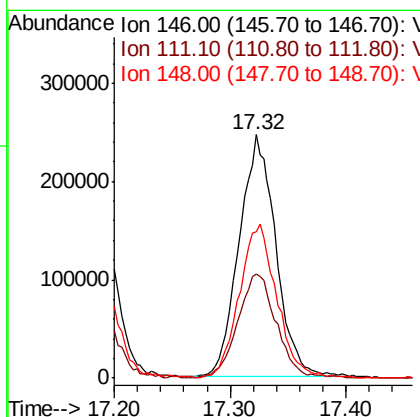
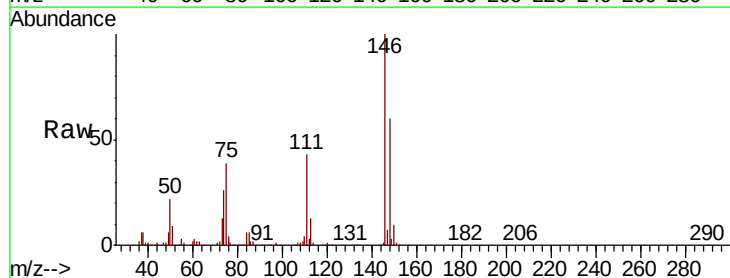
Manual Integrations
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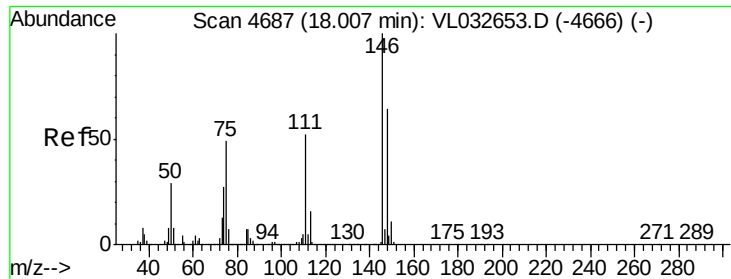
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#76
 1,4-Dichlorobenzene
 Concen: 2.028 ppbv
 RT: 17.32 min Scan# 4474
 Delta R.T. -0.01 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.5	23.7	71.1
148	65.1	32.1	96.3





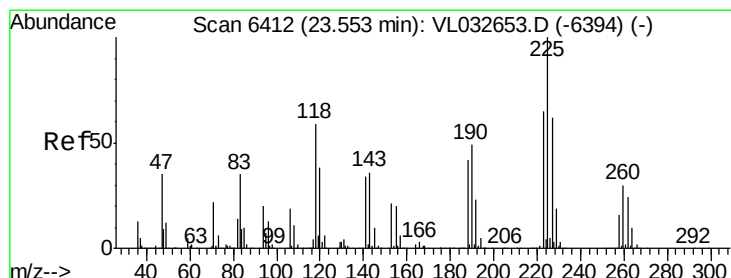
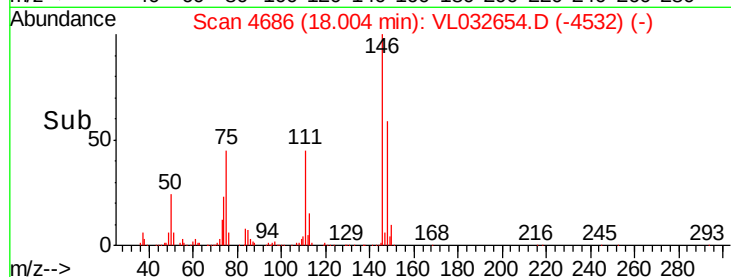
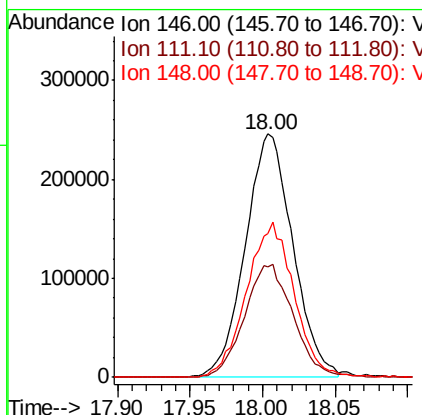
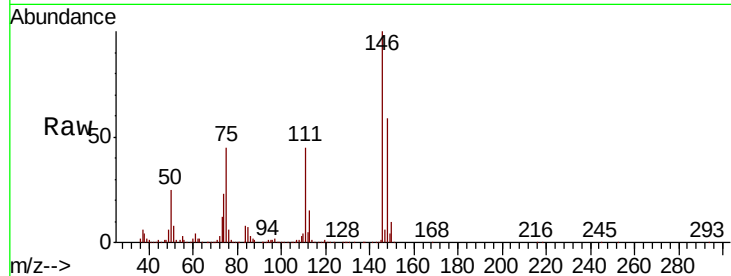
#77
 1,2-Dichlorobenzene
 Concen: 1.985 ppbv
 RT: 18.00 min Scan# 4686
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	25.3	75.8
148	64.0	31.9	95.9

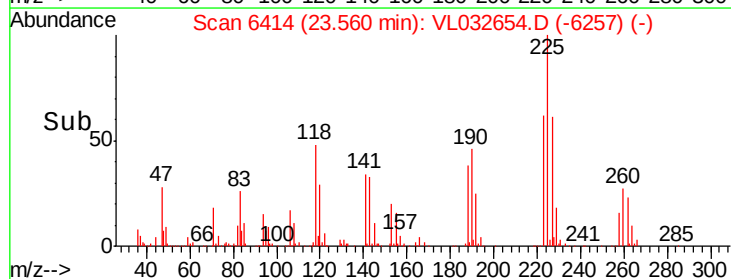
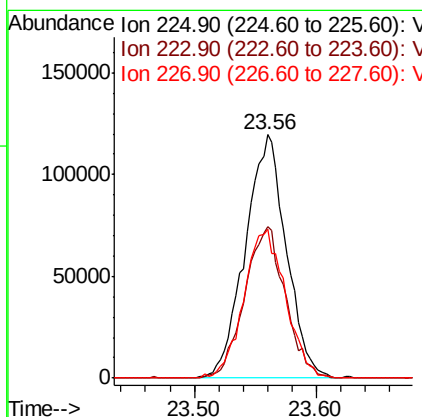
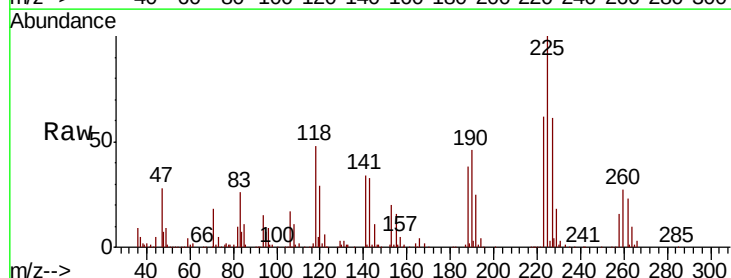
Manual Integrations
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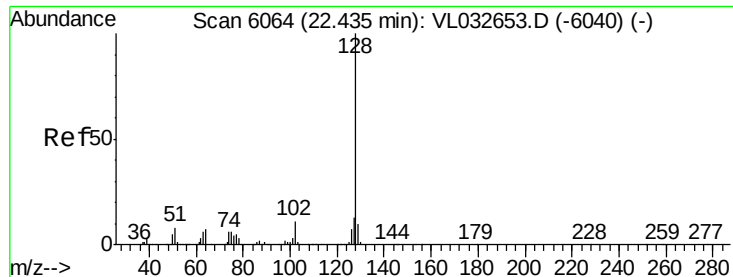
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.759 ppbv
 RT: 23.56 min Scan# 6414
 Delta R.T. 0.01 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.4	50.7	76.1
227	62.1	50.7	76.1





#79

Naphthalene

Concen: 1.984 ppbv

RT: 22.43 min Scan# 6064

Delta R.T. -0.00 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Instrument :

MSVOA_L

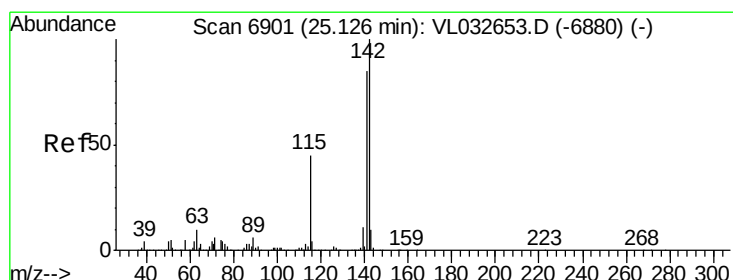
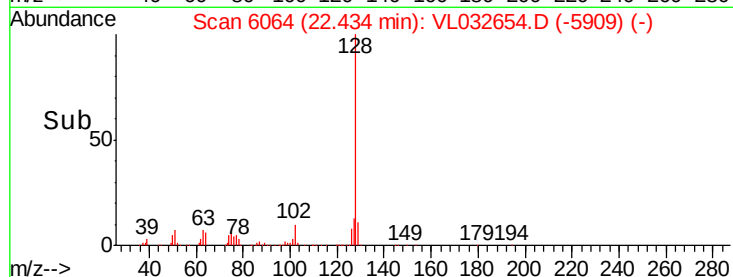
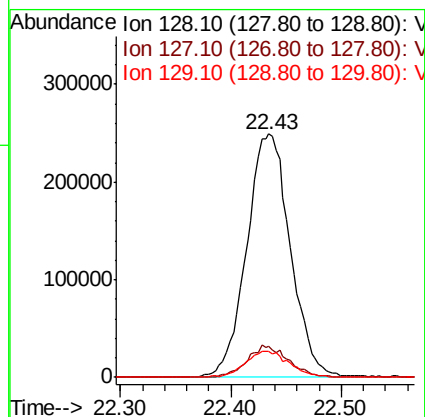
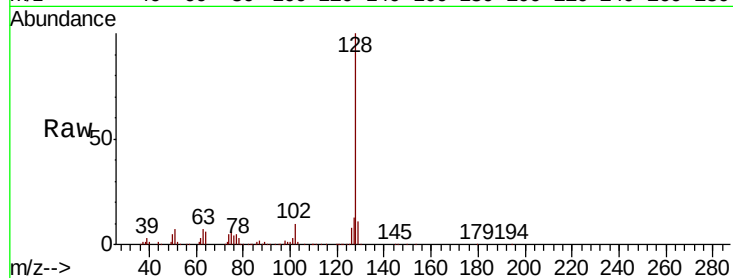
ClientSampleId :

VSTDIC002

Tot Ion:	128	Resp:	682088
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.3	15.5
129	10.7	8.6	13.0

Manual Integrations
APPROVED

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10/24/2018 12:04:21 PM



#80

Naphthalene, 2-methyl-

Concen: 1.818 ppbv

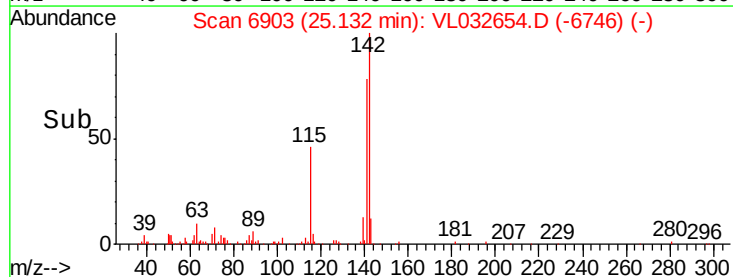
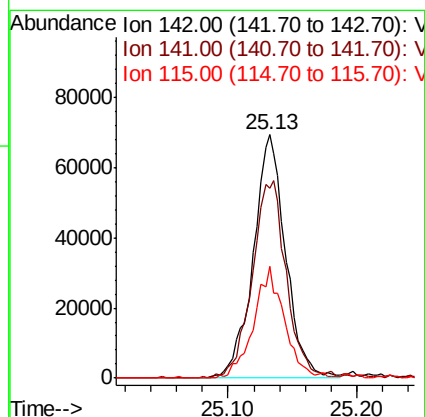
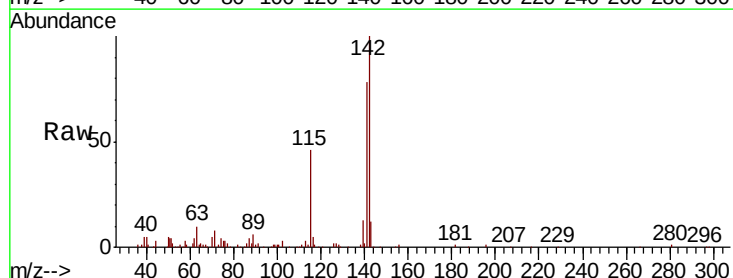
RT: 25.13 min Scan# 6903

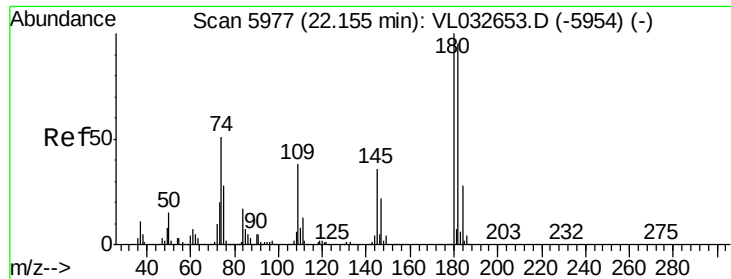
Delta R.T. 0.01 min

Lab File: VL032654.D

Acq: 18 Oct 2018 16:47

Tgt Ion:	142	Resp:	121359
Ion Ratio	Lower	Upper	
142	100		
141	85.9	67.5	101.3
115	44.3	33.5	50.3





#81
 1,2,4-Trichlorobenzene
 Concen: 1.978 ppbv m
 RT: 22.15 min Scan# 5976
 Delta R.T. -0.00 min
 Lab File: VL032654.D
 Acq: 18 Oct 2018 16:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	337550		
182	96.9		76.5	114.7
184	0.0		24.7	37.1#

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:04:21 PM

