

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092018\
 Data File : VL032509.D
 Acq On : 20 Sep 2018 16:07
 Operator : SY/AP
 Sample : VL0920ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 11:19:57 AM

Quant Time: Sep 21 02:46:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 21 02:46:32 2018
 QLast Update : Fri Sep 21 02:33:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1556437	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3570957	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3648340m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2817822	10.40	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.10	85	1262166	6.340	ppbv	99
3) Chlorodifluoromethane	3.03	51	1211765	8.601	ppbv	99
4) Chloromethane	3.19	50	698321	8.186	ppbv	99
5) Vinyl Chloride	3.31	62	666568	7.916	ppbv	97
6) Bromomethane	3.54	94	409107	9.256	ppbv	98
7) Chloroethane	3.62	64	256274	8.793	ppbv	92
8) Dichlorotetrafluoroethane	3.24	85	1447649	8.193	ppbv	100
9) Propene	3.06	41	614878	10.819	ppbv	99
10) Heptane	8.28	43	2091487	10.258	ppbv	98
11) Trichlorofluoromethane	4.03	101	1498784	8.349	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1292397	10.624	ppbv	99
13) Ethanol	3.67	45	140253	7.917	ppbv	97
14) Bromoethene	3.81	108	482733	9.366	ppbv	99
15) Acetone	3.92	43	1310720	9.352	ppbv	99
16) 1,3-Butadiene	3.38	39	529621	8.030	ppbv	99
17) tert-Butyl alcohol	4.39	59	200099	9.277	ppbv #	100
18) 1,1-Dichloroethene	4.38	96	628022	11.296	ppbv	96
19) Isopropyl Alcohol	4.05	45	903273	9.824	ppbv #	98
20) Methylene Chloride	4.43	84	561174	10.500	ppbv	95
21) Allyl Chloride	4.51	41	1087964	11.687	ppbv	100
22) trans-1,2-Dichloroethene	4.99	96	595822	9.877	ppbv	96
23) Vinyl Acetate	5.18	43	2518350	10.840	ppbv	99
24) 1,1-Dichloroethane	5.12	63	1862903	9.731	ppbv	99
25) Ethyl Acetate	5.80	43	3151849	9.523	ppbv	100
26) Hexane	5.81	57	1477987	9.972	ppbv	99
27) Carbon Disulfide	4.65	76	1640292	11.989	ppbv	98
28) Methyl tert-Butyl Ether	5.14	73	1972023	10.837	ppbv	99
29) Chloroform	5.88	83	2163603	9.575	ppbv	100
30) Cyclohexane	7.28	84	1275994	11.758	ppbv	99
31) cis-1,2-Dichloroethene	5.67	61	1431495	10.667	ppbv	98
32) 1,1,1-Trichloroethane	6.65	97	2218377	10.532	ppbv	98
34) 2-Butanone	5.36	43	2086362	8.796	ppbv	100
35) Carbon Tetrachloride	7.17	117	2243920	9.349	ppbv	98
36) Benzene	7.04	78	2970797	9.776	ppbv	99
37) 1,2-Dichloroethane	6.45	62	1691054	9.081	ppbv	99
38) Trichloroethene	8.00	130	1097897	9.511	ppbv	98
39) 1,2-Dichloropropane	7.77	63	1277057	9.822	ppbv	97
40) 1,4-Dioxane	7.99	88	430135	11.027	ppbv	76
41) Tetrahydrofuran	6.18	42	1295892	10.036	ppbv	99
42) Bromodichloromethane	7.96	83	2477287	9.645	ppbv	100
43) Methyl Methacrylate	8.17	69	1287374	9.986	ppbv	99

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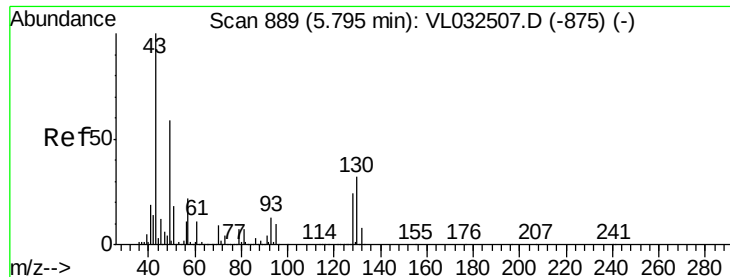
Manual Integrations
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 21 02:46:32 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.03	57	5531473	9.415	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	1766434	12.804	ppbv	96
46) cis-1,3-Dichloropropene	8.88	75	1881337	10.672	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	1363565	9.864	ppbv	99
48) Dibromochloromethane	10.49	129	2233930	11.668	ppbv	100
49) Bromoform	13.24	173	1694496	10.183	ppbv	100
50) 4-Methyl-2-Pentanone	8.91	43	3315053	9.278	ppbv	100
51) 2-Hexanone	10.31	43	2980716	12.951	ppbv	100
52) Tetrachloroethene	11.41	164	968883	10.282	ppbv	97
53) Toluene	9.99	91	3807930	11.988	ppbv	100
54) 1,2-Dibromoethane	10.80	107	2045580	11.021	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.32	131	1487171	9.042	ppbv #	60
57) Chlorobenzene	12.34	112	2638390	9.049	ppbv	99
58) Ethyl Benzene	12.91	91	4748299	10.876	ppbv	97
59) m/p-Xylene	13.19	91	7755969m	19.926	ppbv	
60) o-Xylene	13.89	91	3783471	9.895	ppbv	100
61) Styrene	13.73	104	2824777	11.412	ppbv	99
62) Isopropylbenzene	14.87	105	5369694	9.990	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.88	83	2837169	8.299	ppbv	99
64) n-propylbenzene	15.76	120	1380041	9.821	ppbv	98
65) tert-Butylbenzene	16.95	119	4444309	9.596	ppbv	99
66) Benzyl Chloride	17.19	91	2690505	10.428	ppbv	100
67) sec-Butylbenzene	17.50	105	6565276	9.426	ppbv	99
69) p-Isopropyltoluene	17.86	119	5216831	9.664	ppbv	100
70) n-Butylbenzene	18.75	91	5649958	9.233	ppbv	99
71) 2-Chlorotoluene	15.66	91	4178220	10.175	ppbv	100
72) 4-Ethyltoluene	16.04	105	4395142	10.529	ppbv	99
73) 1,3,5-Trimethylbenzene	16.20	105	4142536	9.905	ppbv	94
74) 1,2,4-Trimethylbenzene	16.97	105	4131130	9.035	ppbv	93
75) 1,3-Dichlorobenzene	17.21	146	2297824	8.470	ppbv	99
76) 1,4-Dichlorobenzene	17.35	146	2256495	8.964	ppbv	100
77) 1,2-Dichlorobenzene	18.03	146	2250021	8.596	ppbv	100
78) Hexachloro-1,3-Butadiene	23.58	225	739929	7.566	ppbv	100
79) Naphthalene	22.46	128	3487659	9.380	ppbv	100
80) Naphthalene, 2-methyl-	25.14	142	1104116	11.160	ppbv	100
81) 1,2,4-Trichlorobenzene	22.18	180	1660108	8.865	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 49 Resp: 1556437

Ion Ratio Lower Upper

49 100

128 41.9 20.7 62.1

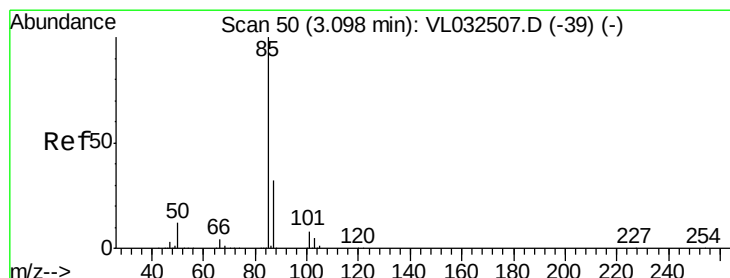
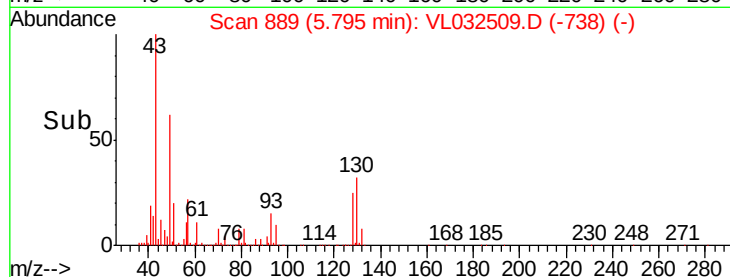
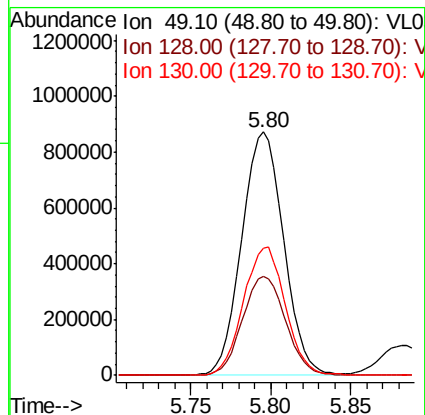
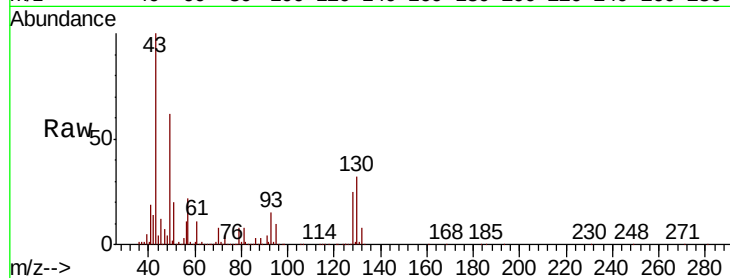
130 53.5 26.6 79.7

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#2

Dichlorodifluoromethane

Concen: 6.340 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.01 min

Lab File: VL032509.D

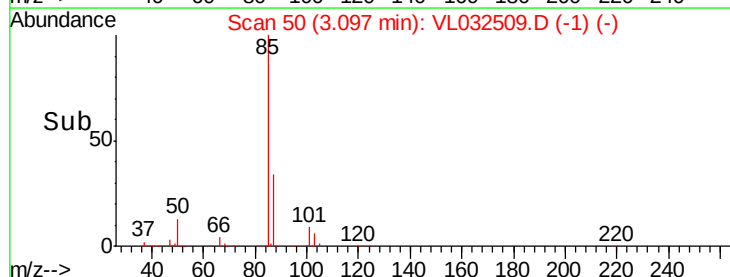
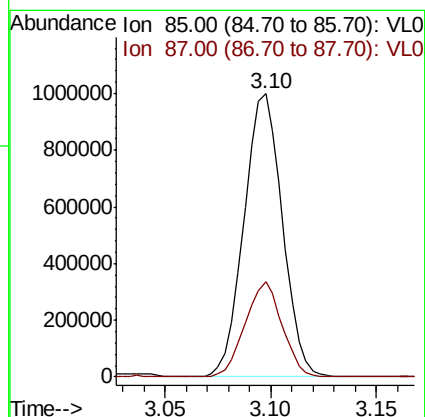
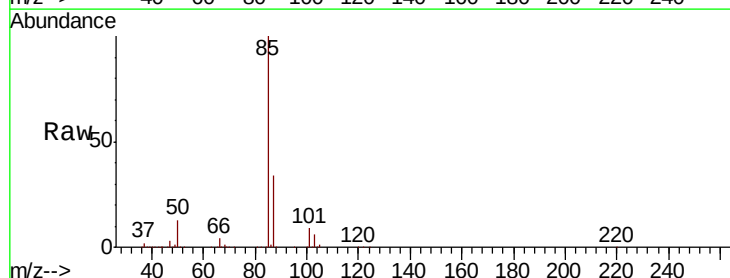
Acq: 20 Sep 2018 16:07

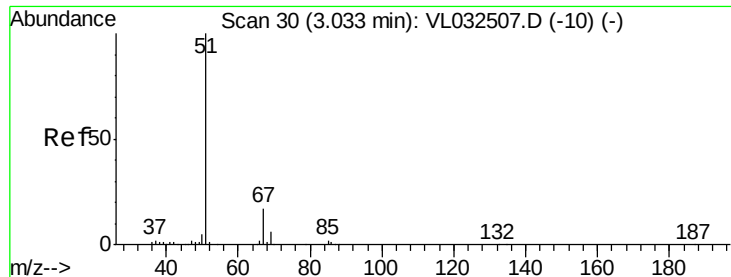
Tgt Ion: 85 Resp: 1262166

Ion Ratio Lower Upper

85 100

87 33.6 26.2 39.4





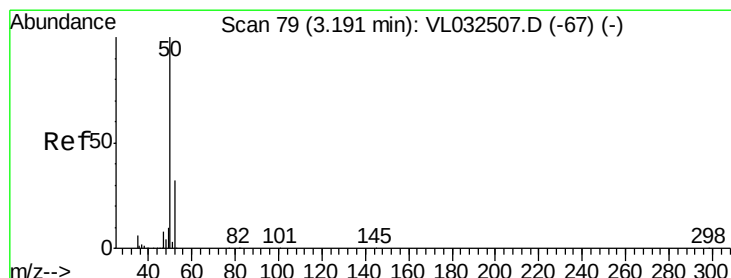
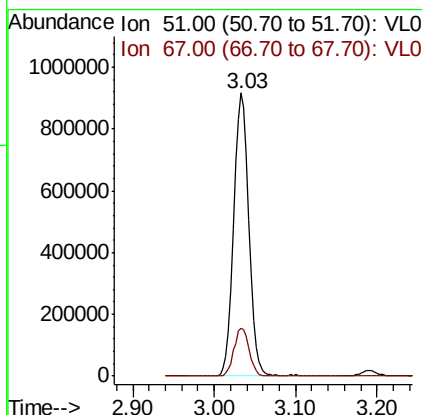
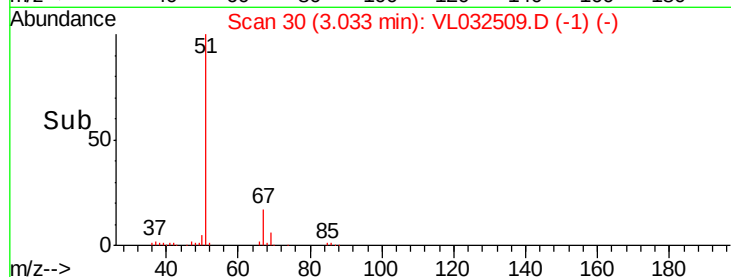
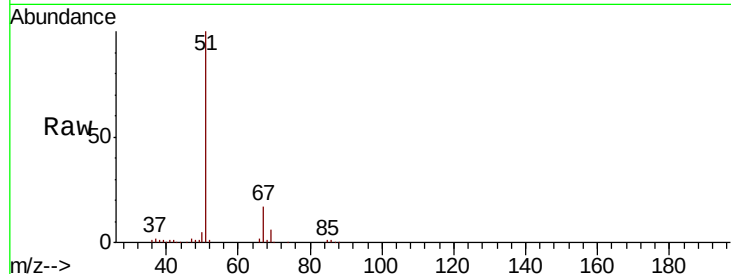
#3
Chlorodifluoromethane
Concen: 8.601 ppbv
RT: 3.03 min Scan# 30
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion: 51 Resp: 1211765
Ion Ratio Lower Upper
51 100
67 17.0 13.8 20.8

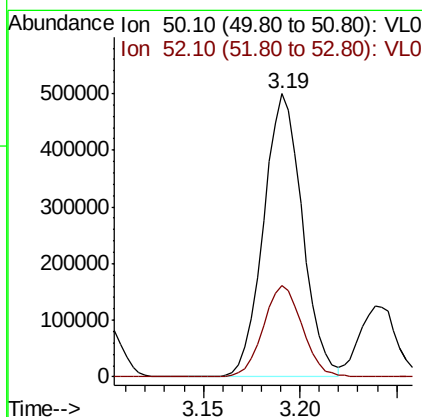
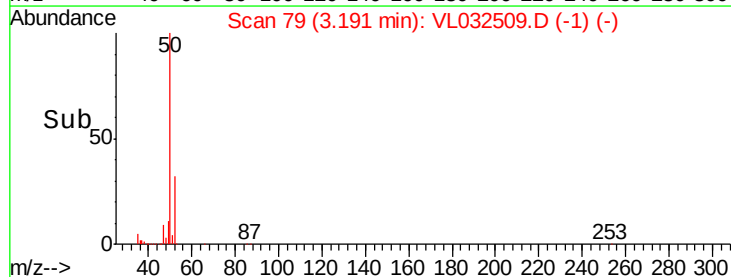
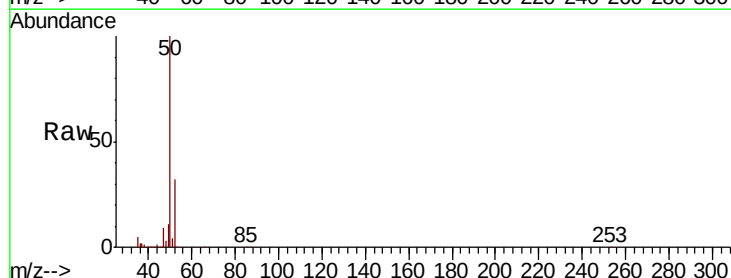
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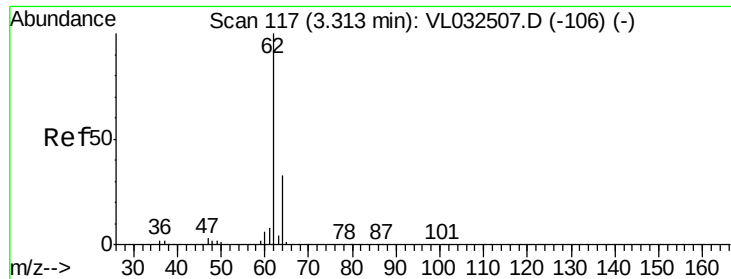
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#4
Chloromethane
Concen: 8.186 ppbv
RT: 3.19 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 50 Resp: 698321
Ion Ratio Lower Upper
50 100
52 32.5 25.6 38.4





#5

Vinyl Chloride

Concen: 7.916 ppbv

RT: 3.31 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 62 Resp: 666568

Ion Ratio Lower Upper

62 100

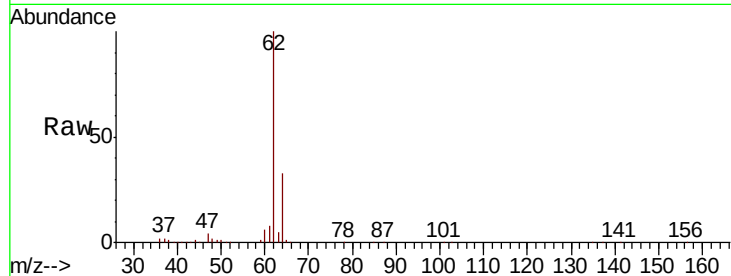
64 32.8 25.0 37.6

Manual Integrations

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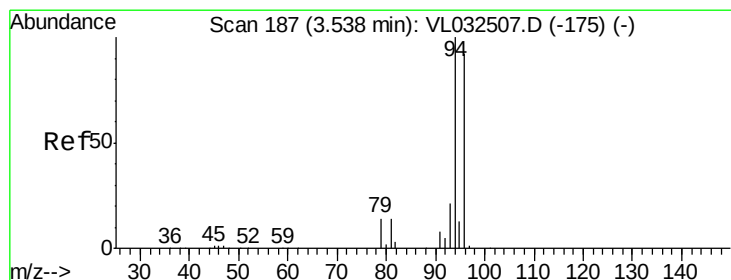
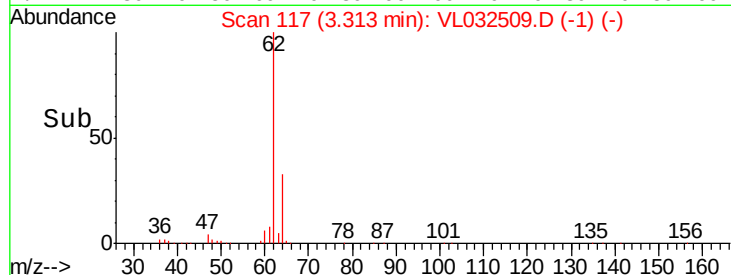
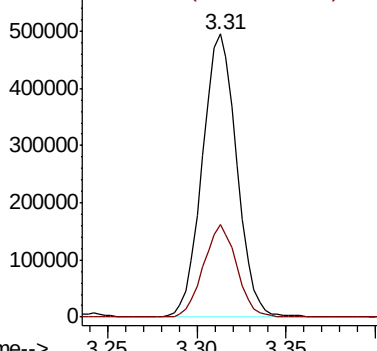
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.256 ppbv

RT: 3.54 min Scan# 187

Delta R.T. -0.01 min

Lab File: VL032509.D

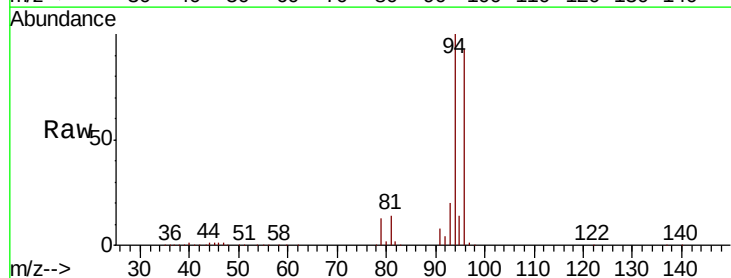
Acq: 20 Sep 2018 16:07

Tgt Ion: 94 Resp: 409107

Ion Ratio Lower Upper

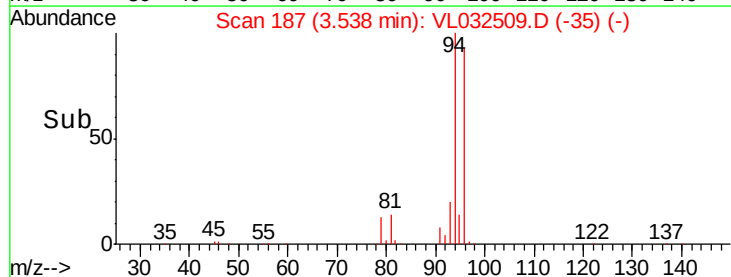
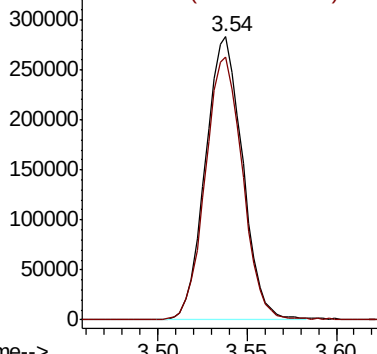
94 100

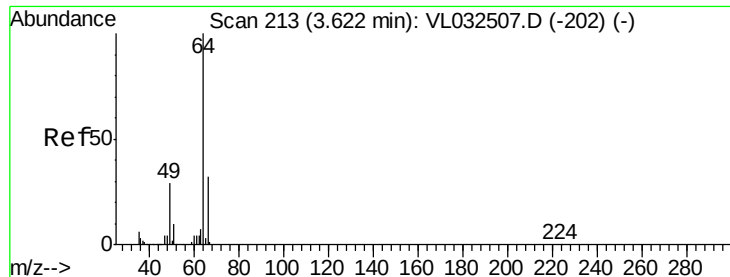
96 92.7 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.793 ppbv

RT: 3.62 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 64 Resp: 256274

Ion Ratio Lower Upper

64 100

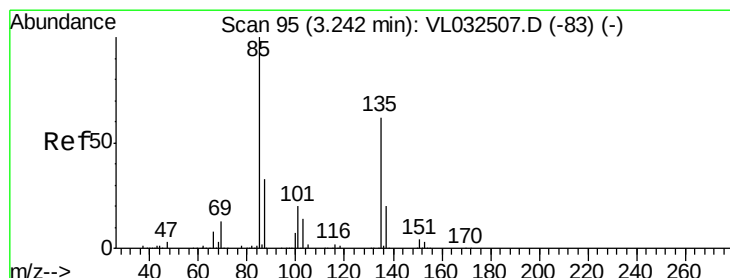
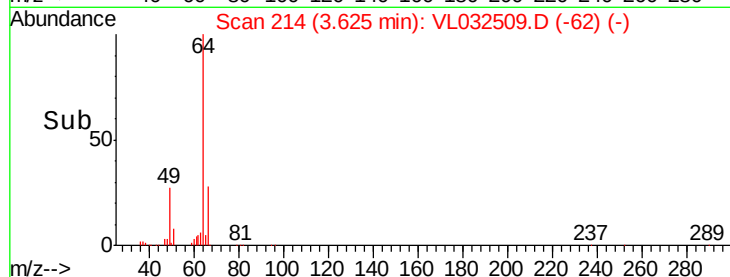
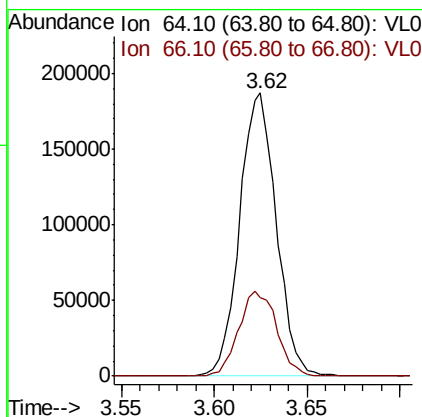
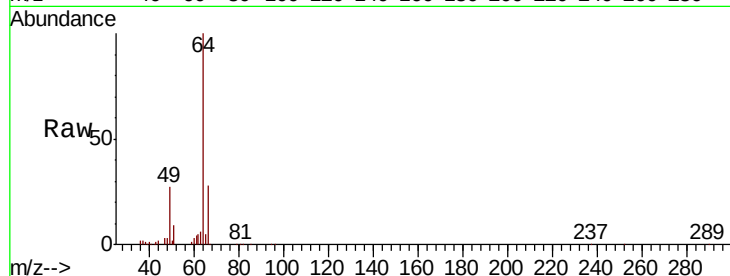
66 27.7 25.8 38.6

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#8

Dichlorotetrafluoroethane

Concen: 8.193 ppbv

RT: 3.24 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL032509.D

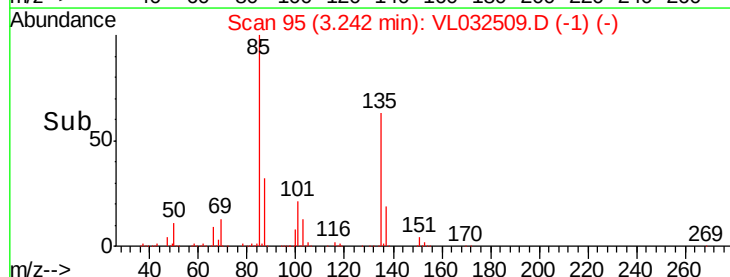
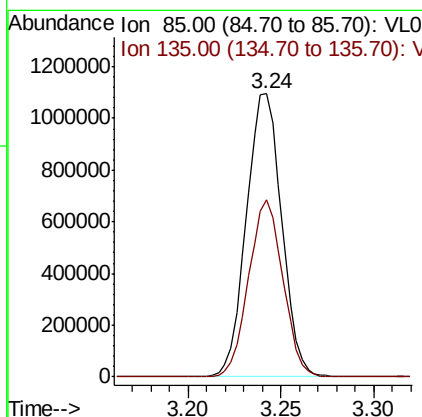
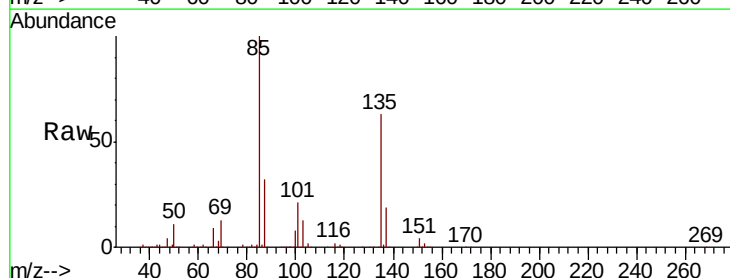
Acq: 20 Sep 2018 16:07

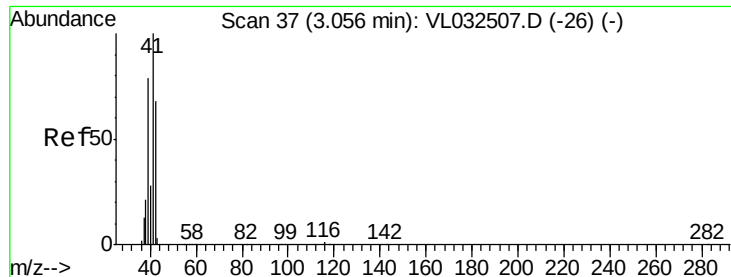
Tgt Ion: 85 Resp: 1447649

Ion Ratio Lower Upper

85 100

135 60.7 48.6 72.8





#9

Propene

Concen: 10.819 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 41 Resp: 614878

Ion Ratio Lower Upper

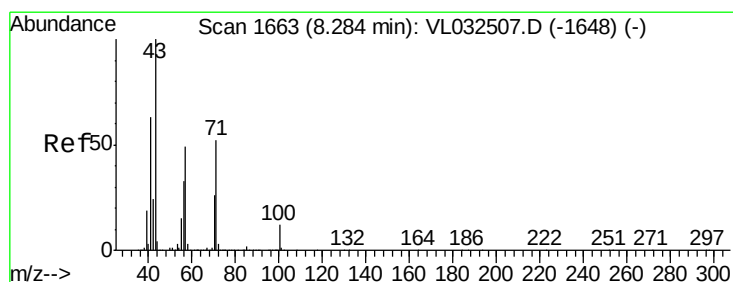
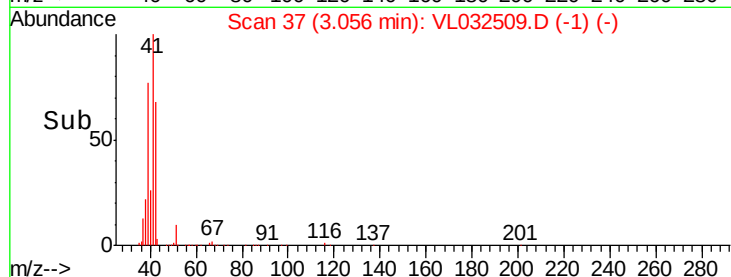
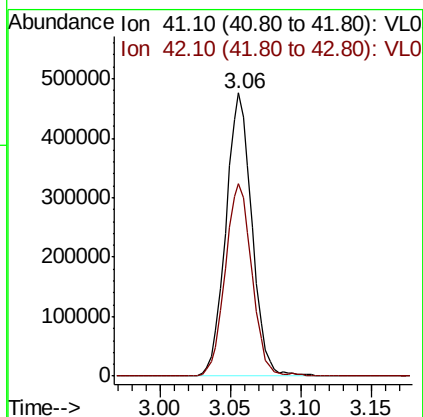
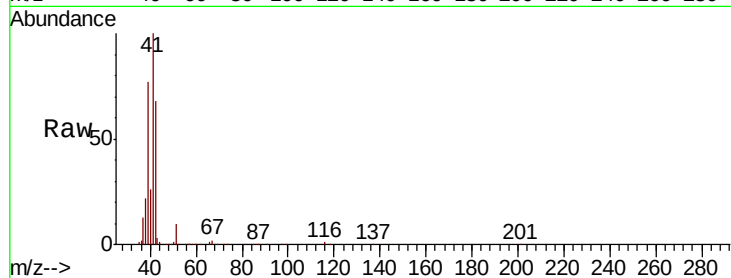
41 100

42 69.7 56.6 84.8

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#10

Heptane

Concen: 10.258 ppbv

RT: 8.28 min Scan# 1663

Delta R.T. -0.01 min

Lab File: VL032509.D

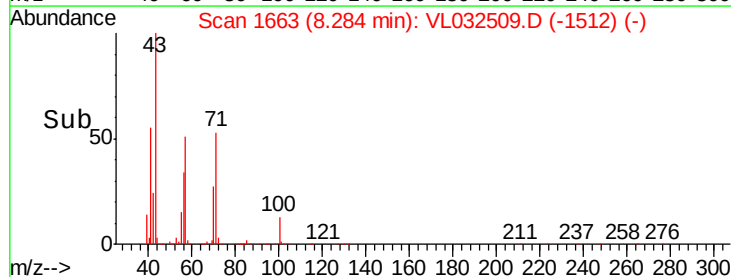
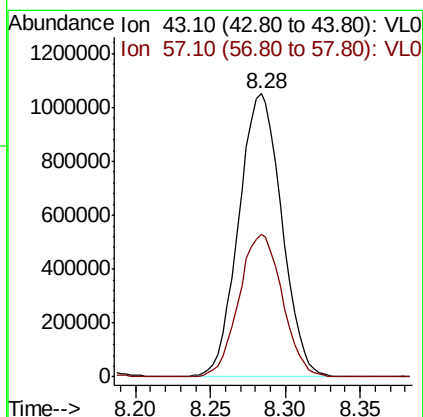
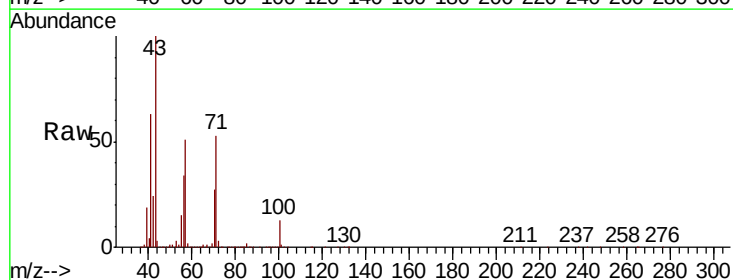
Acq: 20 Sep 2018 16:07

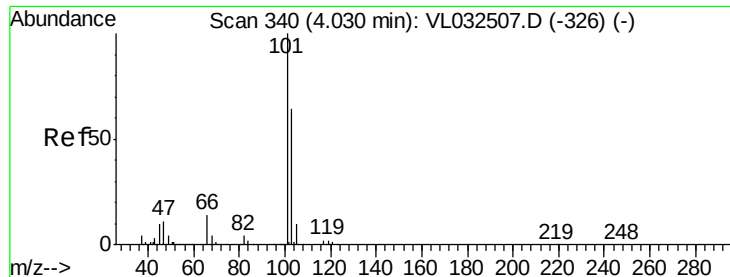
Tgt Ion: 43 Resp: 2091487

Ion Ratio Lower Upper

43 100

57 51.0 39.6 59.4





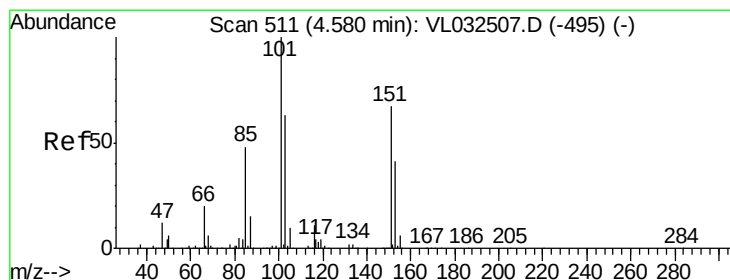
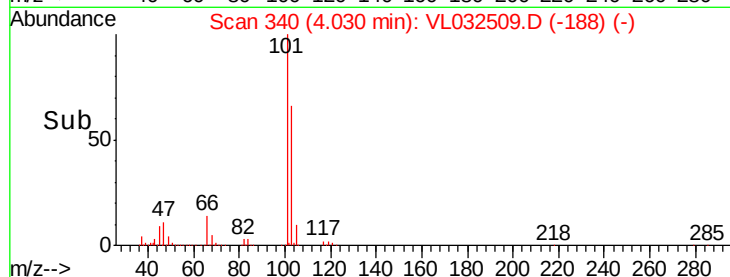
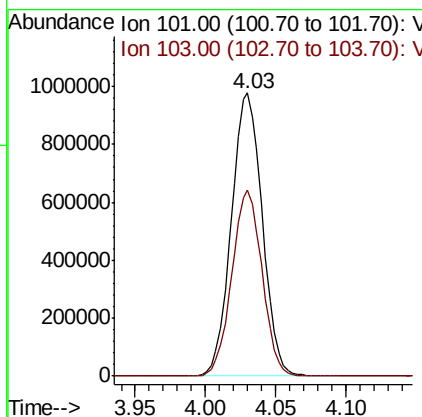
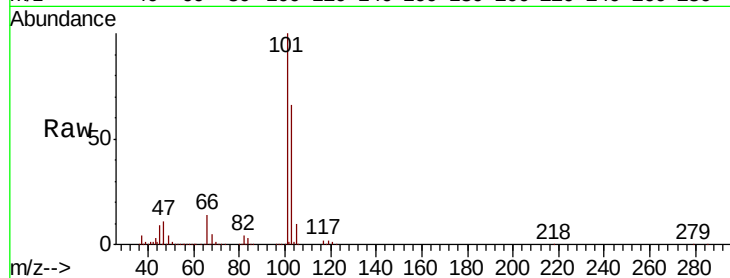
#11
 Trichlorofluoromethane
 Concen: 8.349 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion:101 Resp: 1498784
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.8 79.2

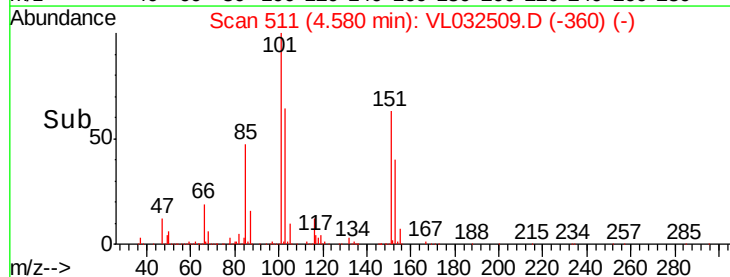
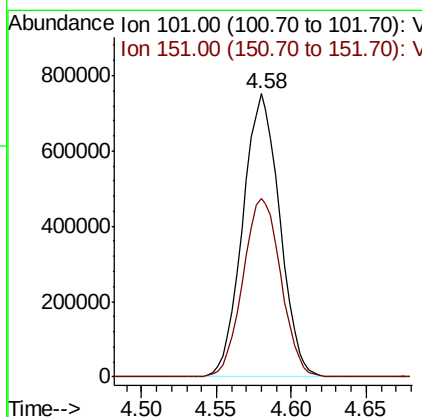
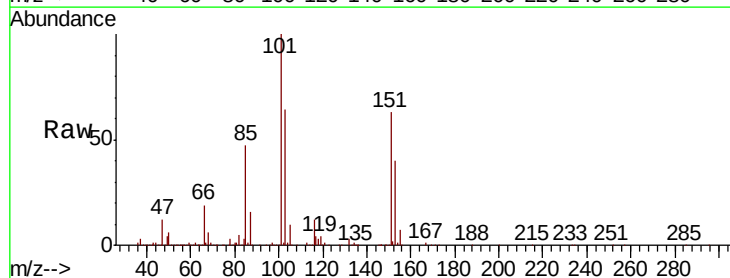
Manual Integrations
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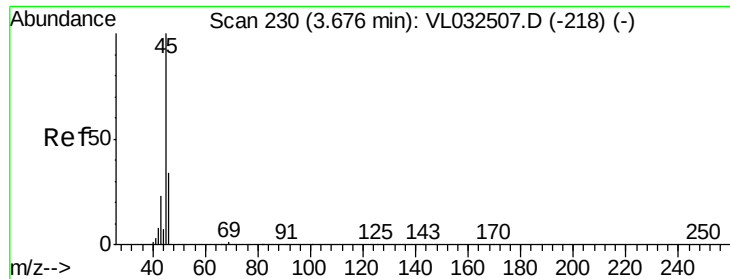
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.624 ppbv
 RT: 4.58 min Scan# 511
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion:101 Resp: 1292397
 Ion Ratio Lower Upper
 101 100
 151 64.9 52.6 78.8





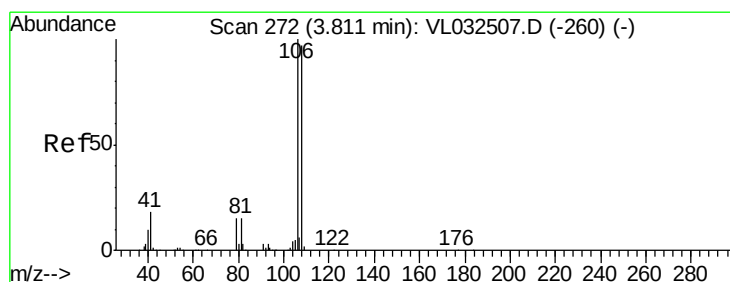
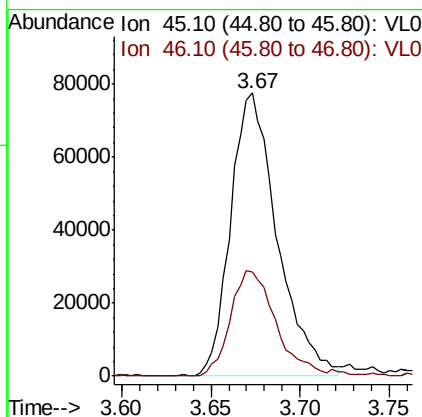
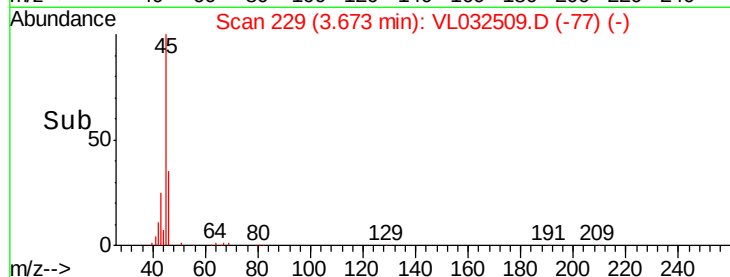
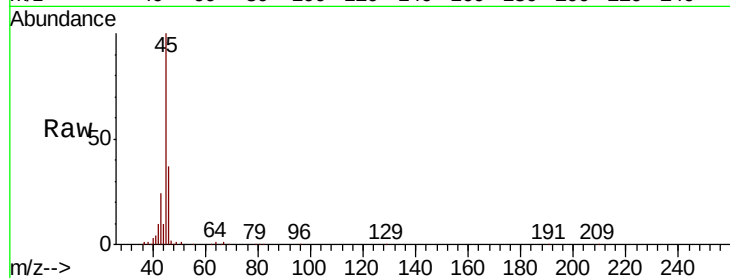
#13
Ethanol
Concen: 7.917 ppbv
RT: 3.67 min Scan# 229
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.4	14.2	56.8

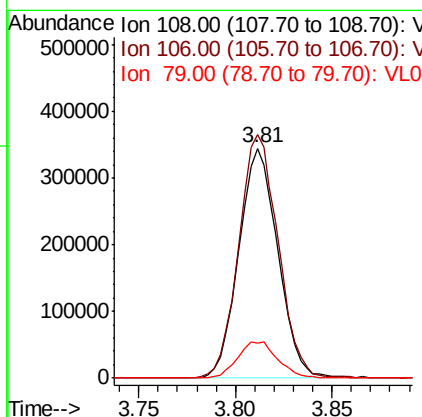
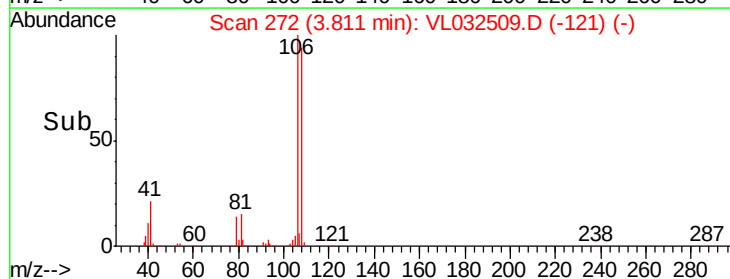
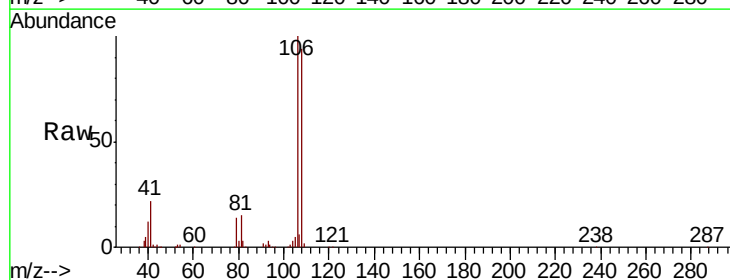
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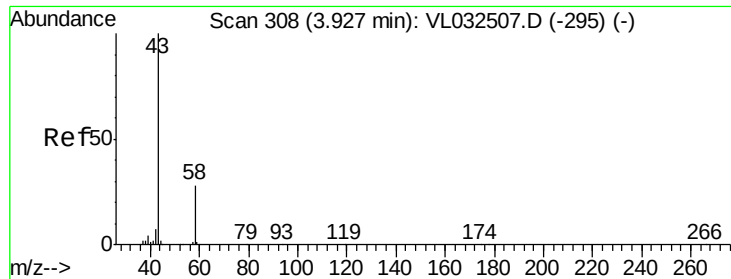
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#14
Bromoethene
Concen: 9.366 ppbv
RT: 3.81 min Scan# 272
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.3	85.5	128.3
79	16.9	13.0	19.6





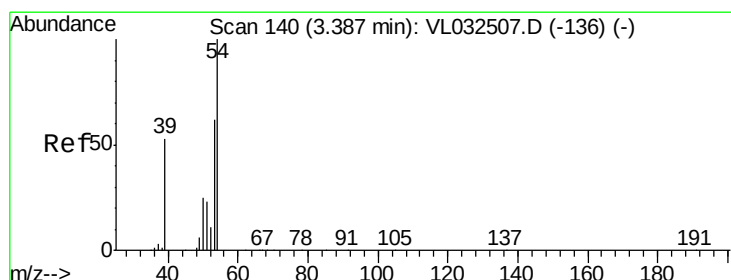
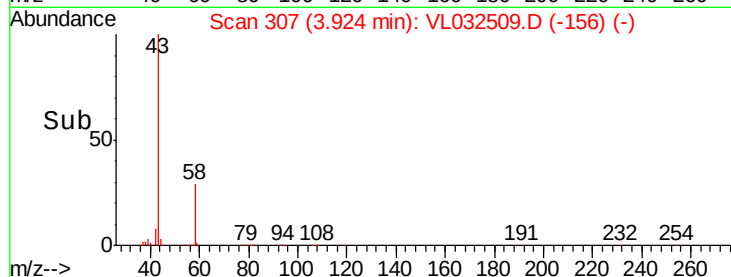
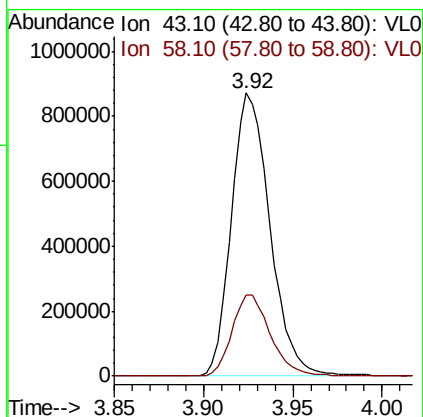
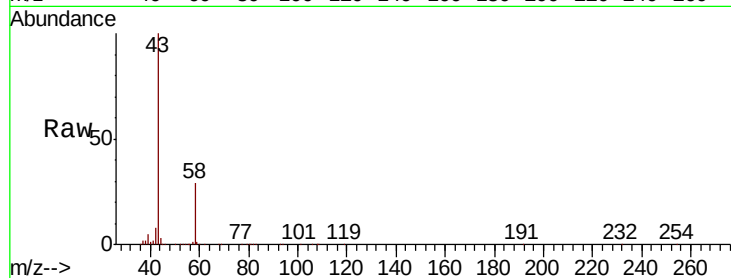
#15
Acetone
Concen: 9.352 ppbv
RT: 3.92 min Scan# 307
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion: 43 Resp: 1310720
Ion Ratio Lower Upper
43 100
58 28.7 22.6 33.8

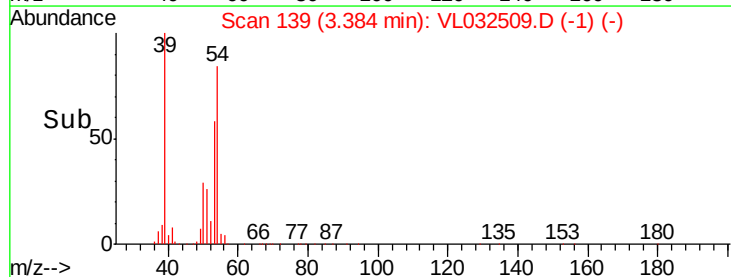
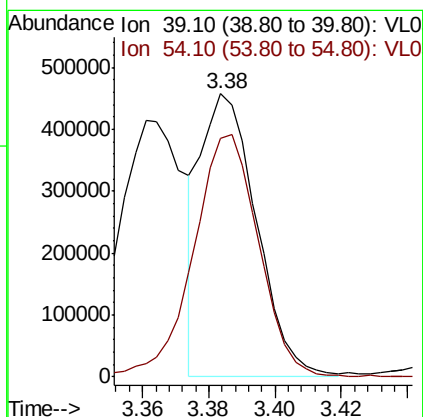
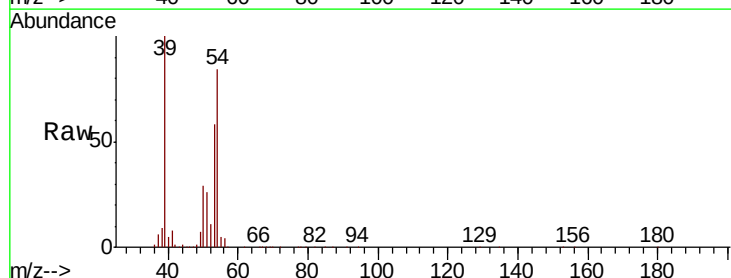
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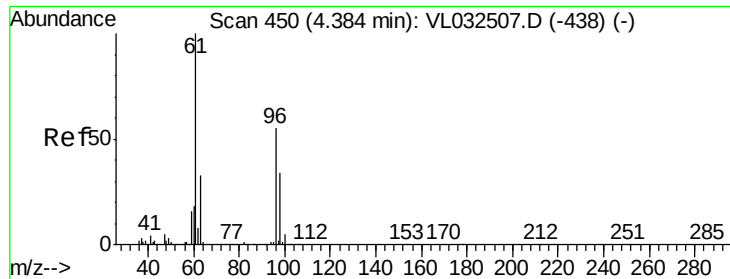
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#16
1,3-Butadiene
Concen: 8.030 ppbv
RT: 3.38 min Scan# 139
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 39 Resp: 529621
Ion Ratio Lower Upper
39 100
54 102.2 80.8 121.2





#17

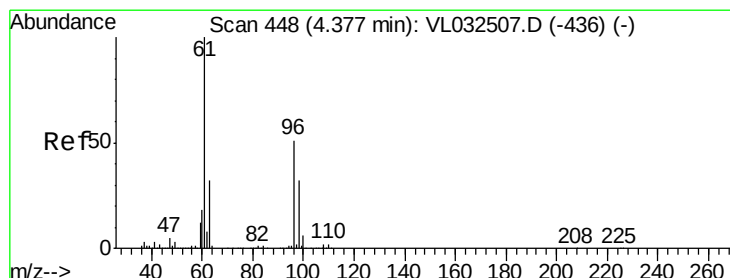
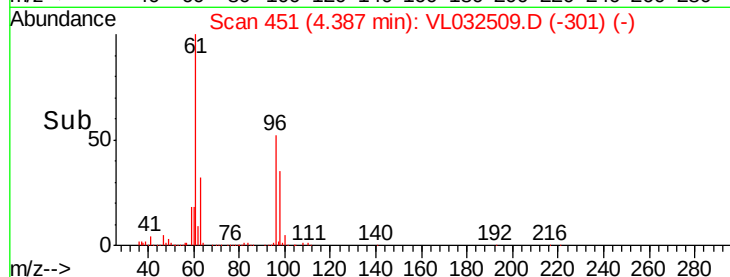
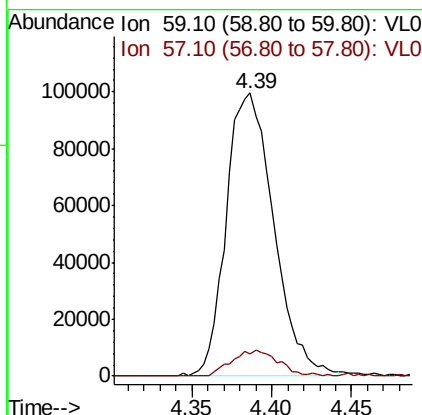
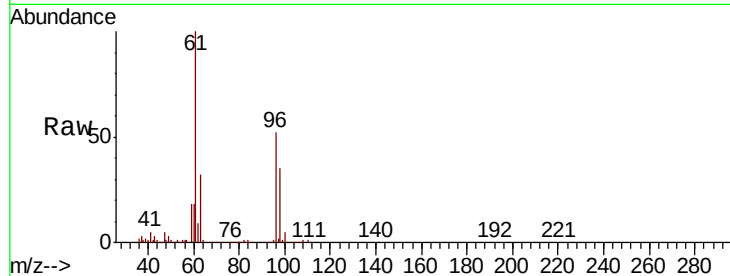
tert-Butyl alcohol
Concen: 9.277 ppbv
RT: 4.39 min Scan# 451
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	200099		
57	9.6	0.0	0.0	0.0

Manual Integrations
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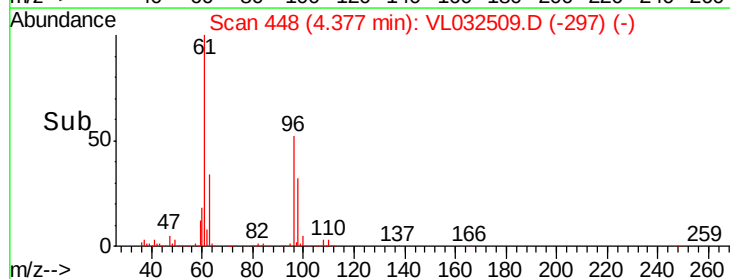
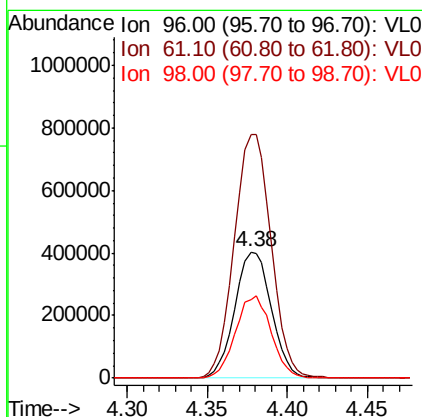
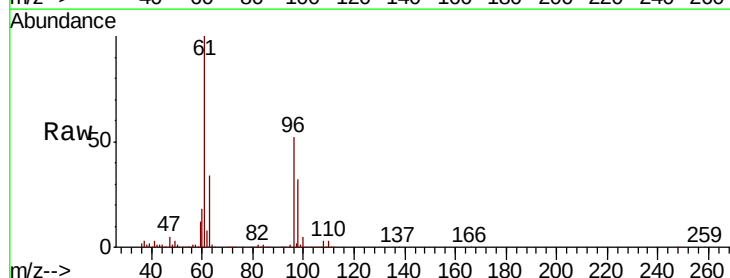
MMDadoda
9/24/2018 11:19:57 AM

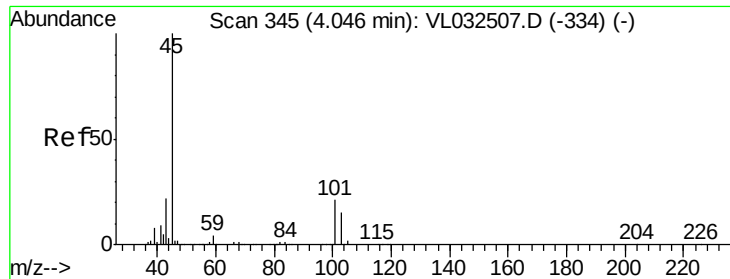


#18

1,1-Dichloroethene
Concen: 11.296 ppbv
RT: 4.38 min Scan# 448
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	628022		
61	192.5	159.2	238.8	
98	62.2	51.0	76.4	





#19

Isopropyl Alcohol

Concen: 9.824 ppbv

RT: 4.05 min Scan# 345

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 45 Resp: 903273

Ion Ratio Lower Upper

45 100

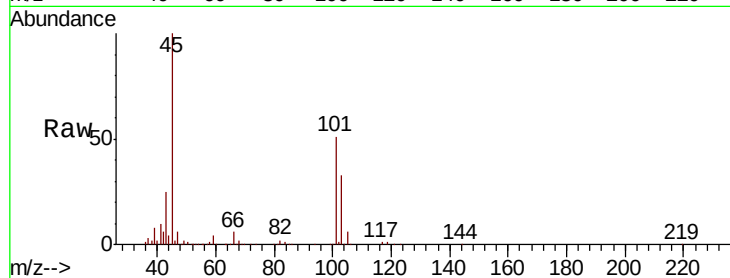
58 1.8 2.0 3.0#

Manual Integrations

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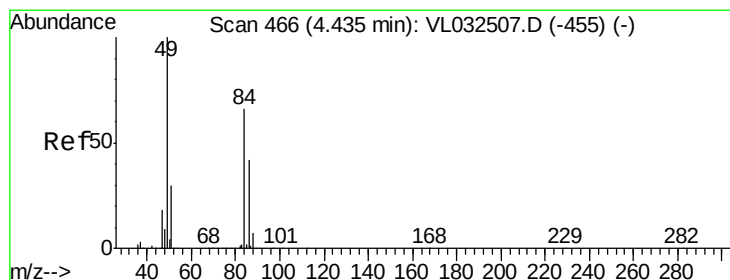
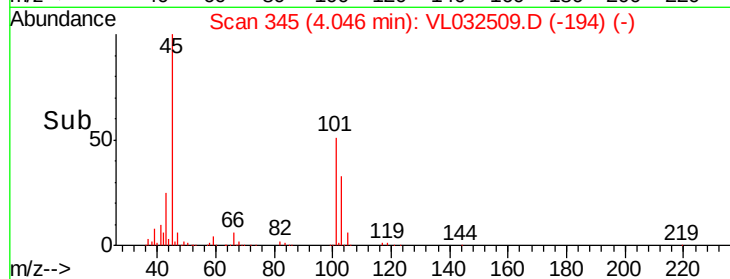
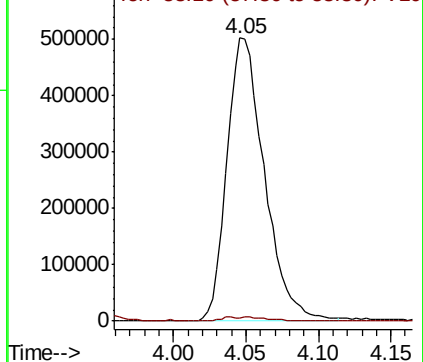
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.500 ppbv

RT: 4.43 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 84 Resp: 561174

Ion Ratio Lower Upper

84 100

49 156.7 119.1 178.7

51 46.5 35.2 52.8

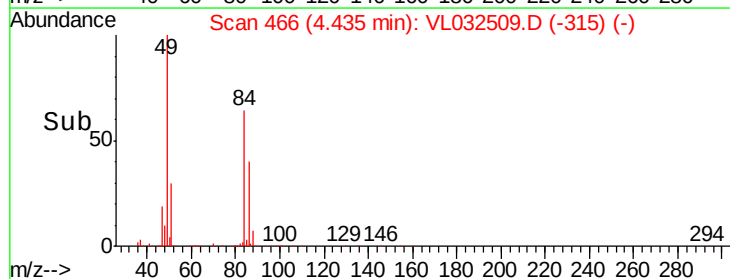
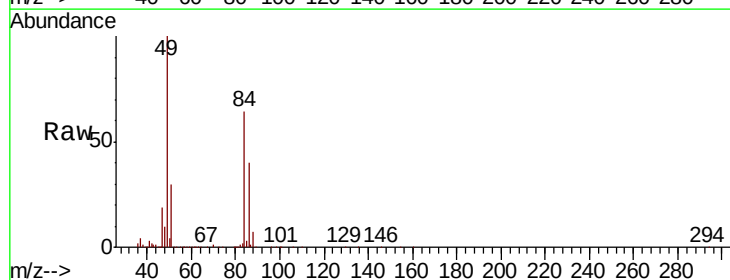
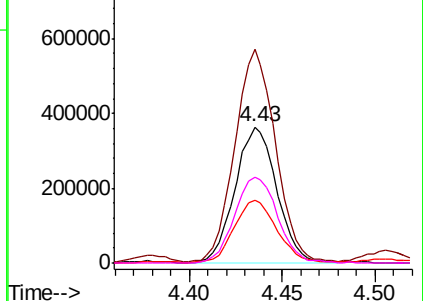
86 63.8 49.4 74.2

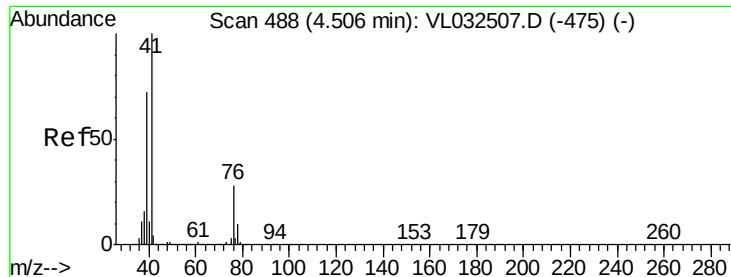
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





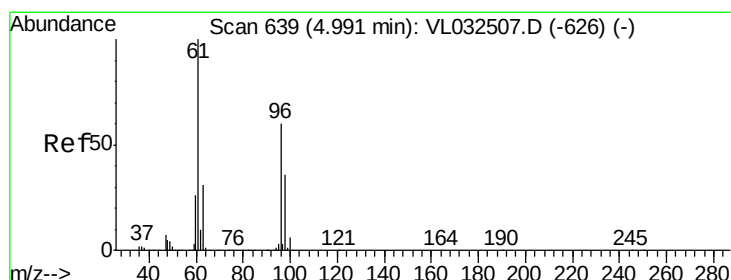
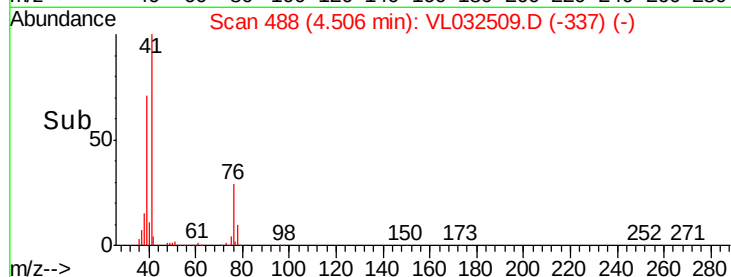
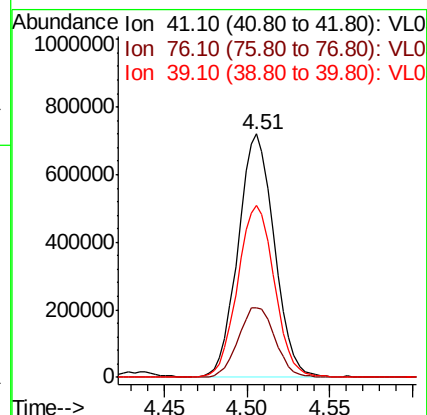
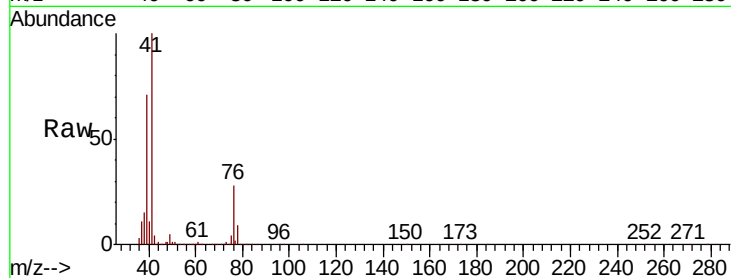
#21
Allvl Chloride
Concen: 11.687 ppbv
RT: 4.51 min Scan# 488
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.5	23.6	35.4
39	72.0	57.7	86.5

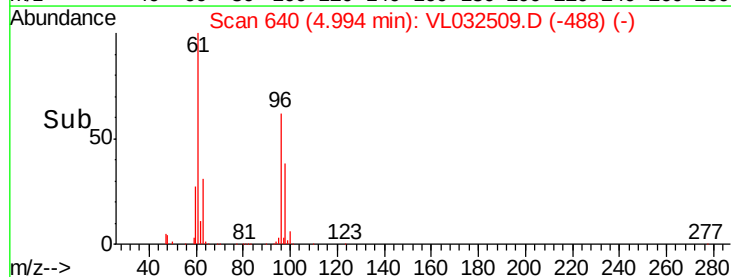
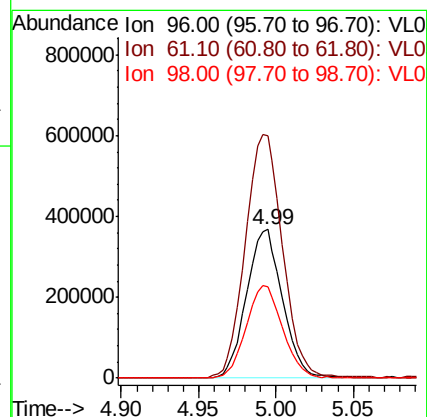
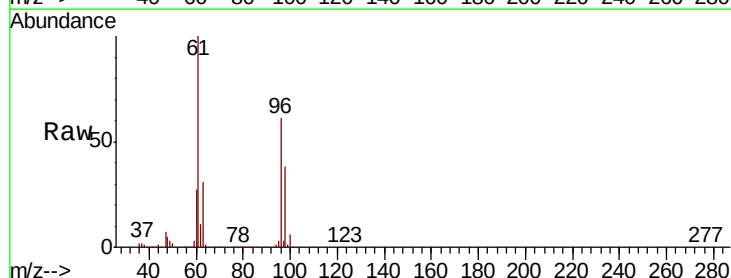
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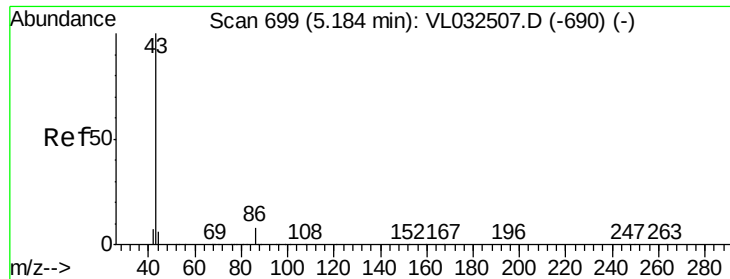
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#22
trans-1,2-Dichloroethene
Concen: 9.877 ppbv
RT: 4.99 min Scan# 640
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.8	136.2	204.4
98	61.7	50.4	75.6





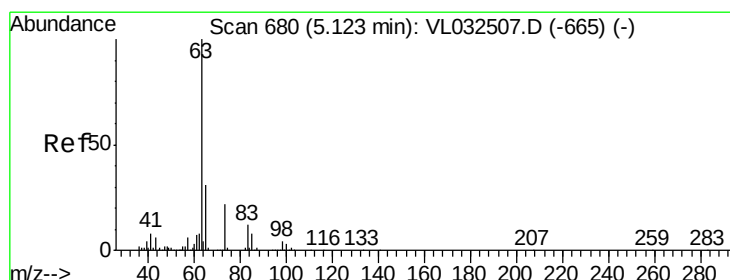
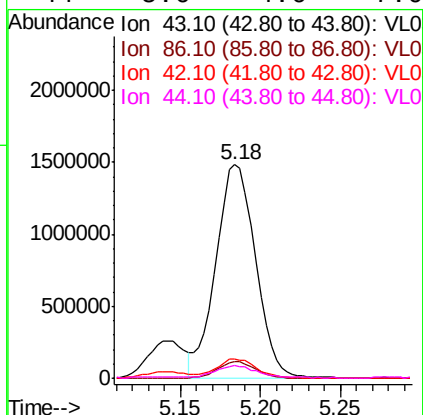
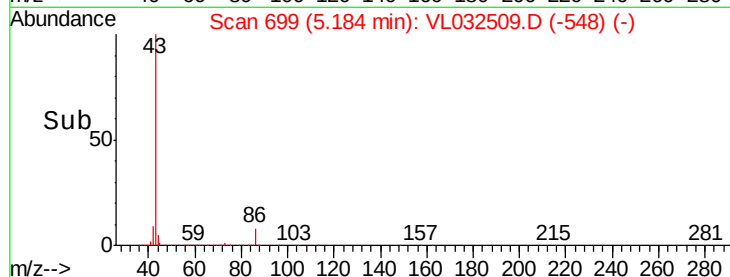
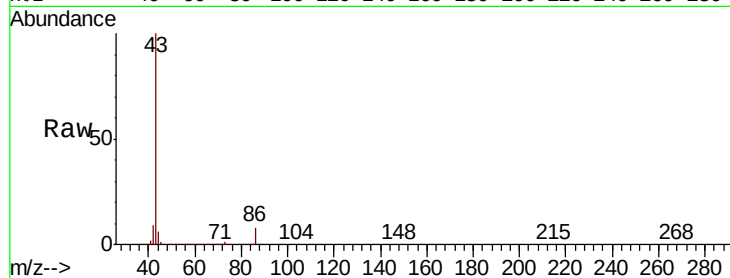
#23
 Vinyl Acetate
 Concen: 10.840 ppbv
 RT: 5.18 min Scan# 699
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion	43	Resp	2518350
Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.9	8.9
42	9.1	6.9	10.3
44	5.6	4.6	7.0

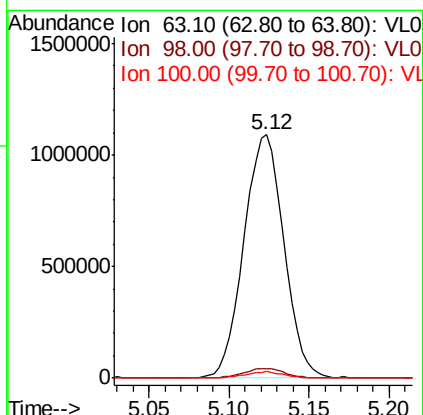
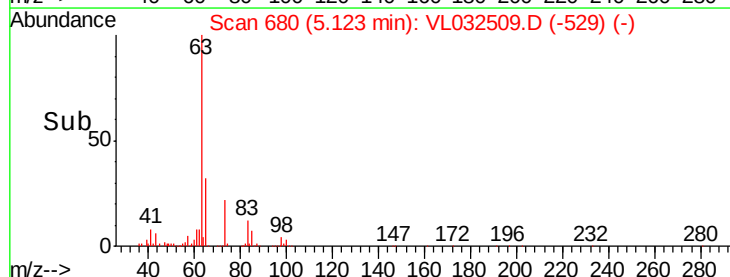
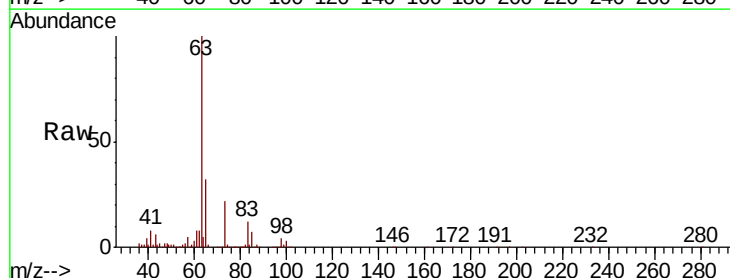
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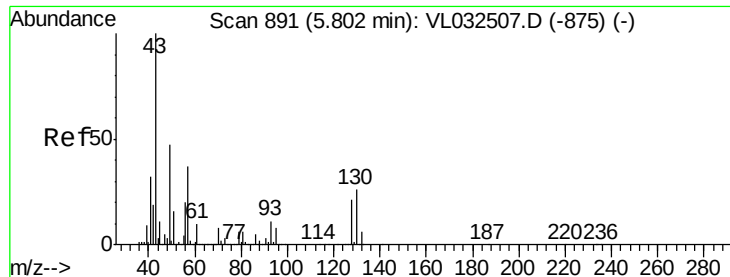
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#24
 1,1-Dichloroethane
 Concen: 9.731 ppbv
 RT: 5.12 min Scan# 680
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion	63	Resp	1862903
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.1	6.5
100	2.8	1.5	4.4





#25

Ethyl Acetate

Concen: 9.523 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 43 Resp: 3151849

Ion Ratio Lower Upper

43 100

45 9.9 8.0 12.0

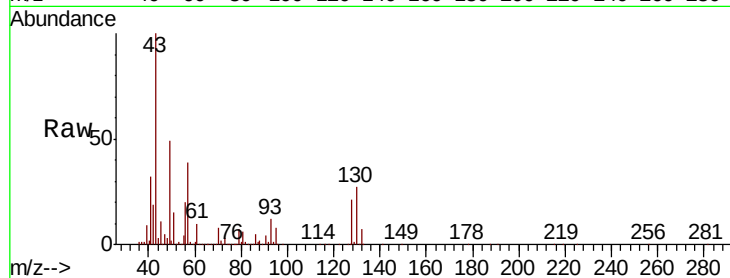
61 9.4 7.6 11.4

70 7.3 5.8 8.8

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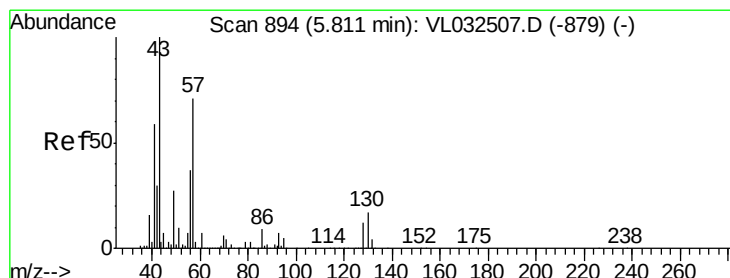
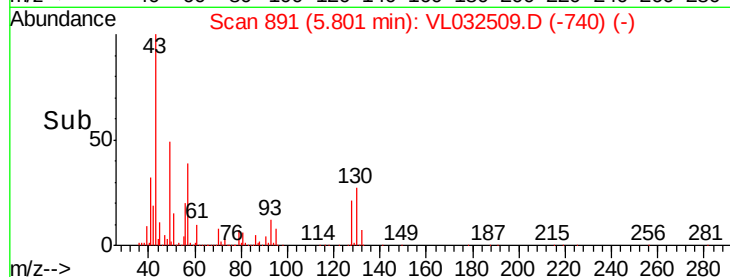
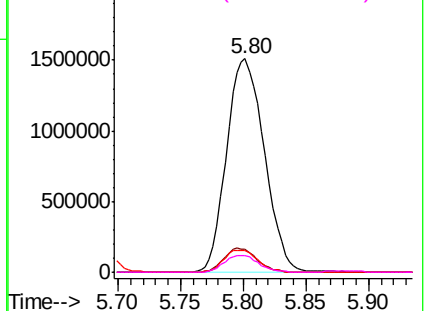


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.972 ppbv

RT: 5.81 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 57 Resp: 1477987

Ion Ratio Lower Upper

57 100

41 84.6 69.0 103.4

43 213.4 172.1 258.1

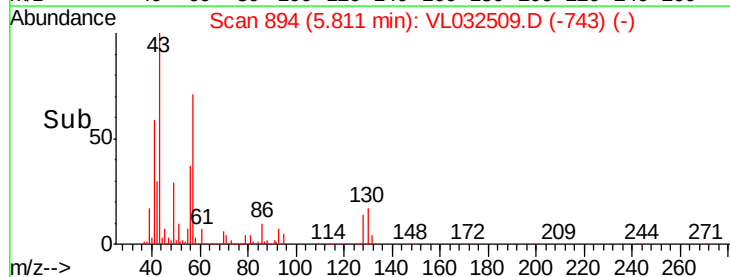
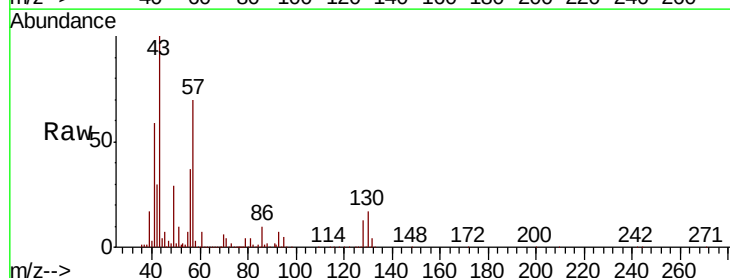
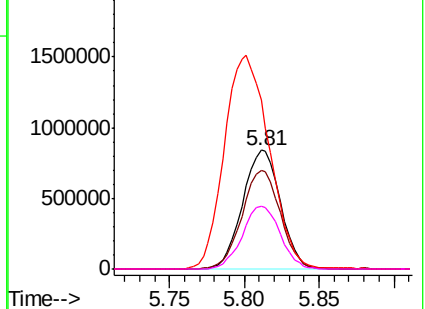
56 52.7 42.2 63.2

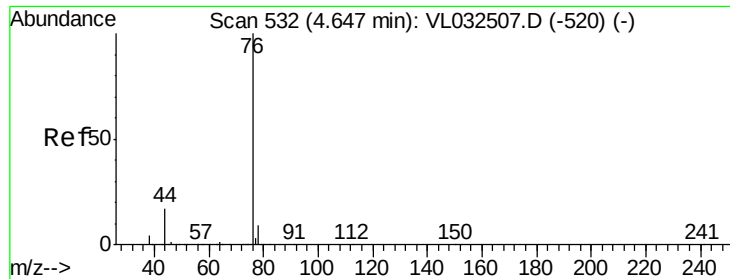
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





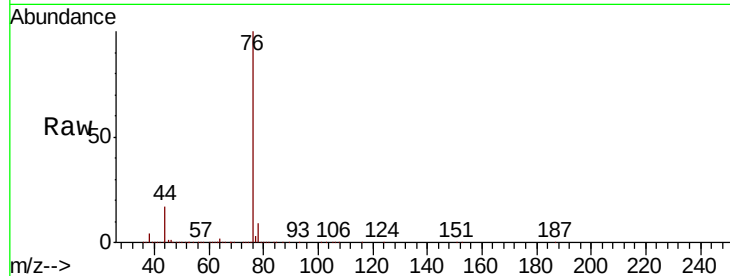
#27
Carbon Disulfide
Concen: 11.989 ppbv
RT: 4.65 min Scan# 532
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

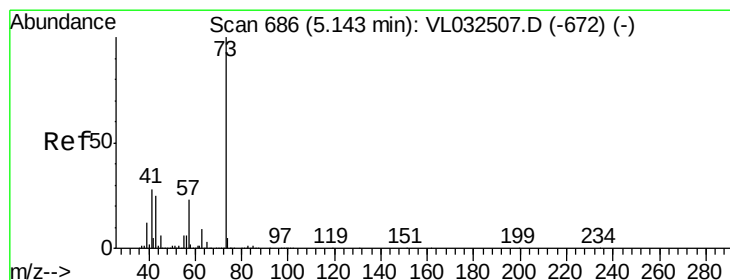
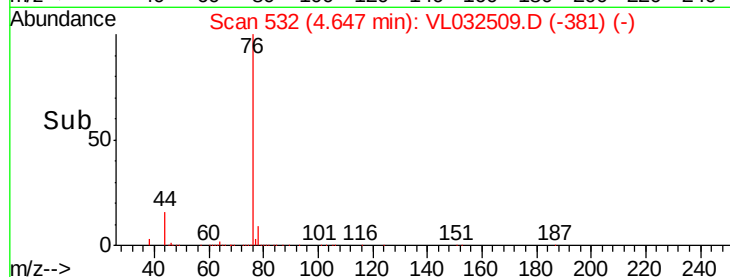
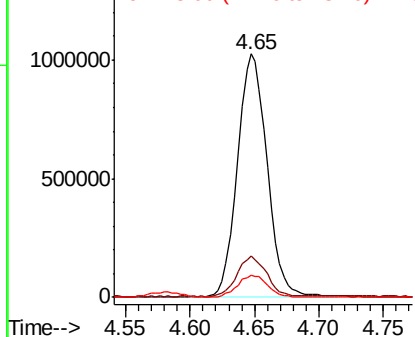
Tot Ion	Ratio	Lower	Upper
76	100		
44	16.6	14.0	21.0
78	9.2	7.5	11.3

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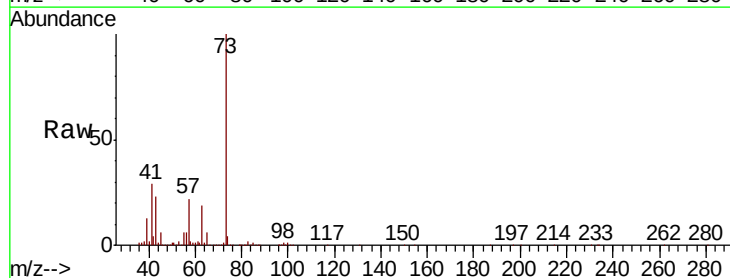


Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

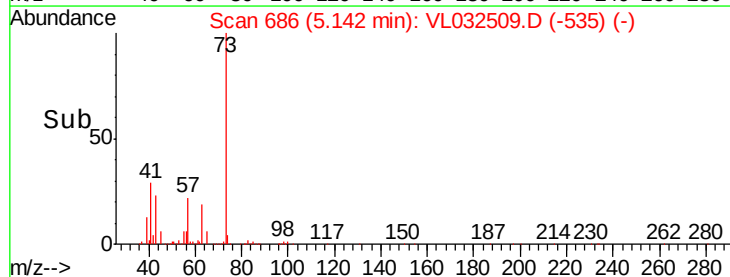
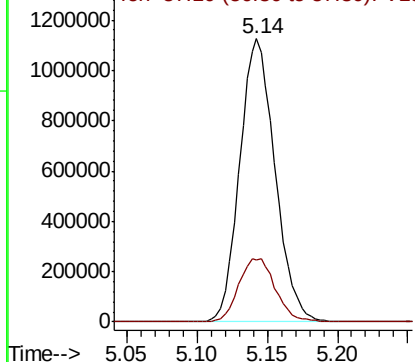


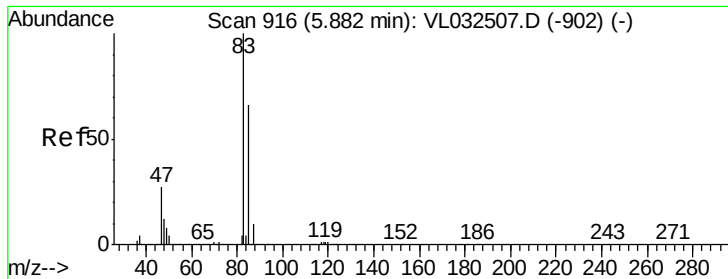
#28
Methyl tert-Butyl Ether
Concen: 10.837 ppbv
RT: 5.14 min Scan# 686
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.3	28.9



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





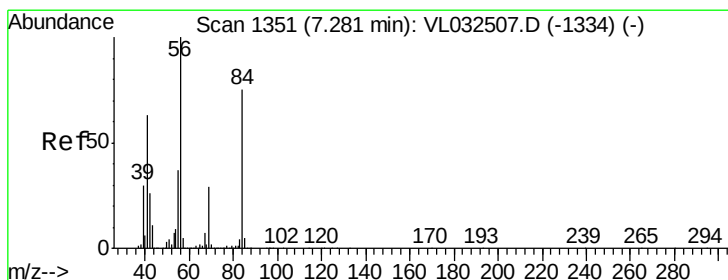
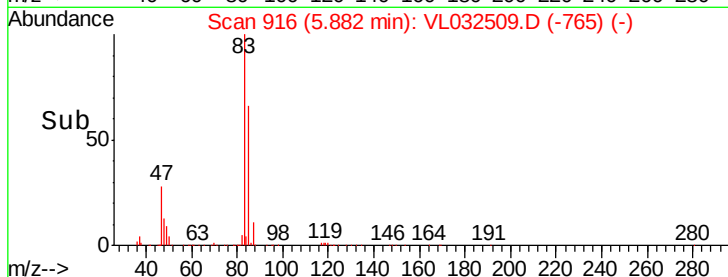
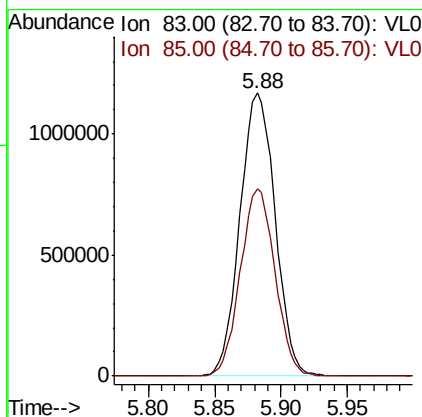
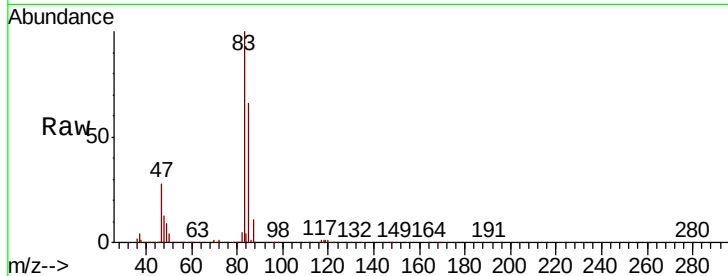
#29
Chloroform
Concen: 9.575 ppbv
RT: 5.88 min Scan# 916
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion: 83 Resp: 2163603
Ion Ratio Lower Upper
83 100
85 66.0 52.5 78.7

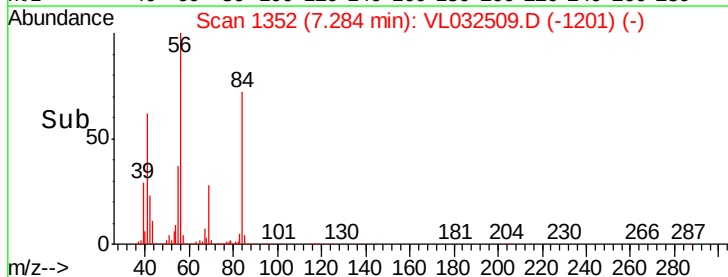
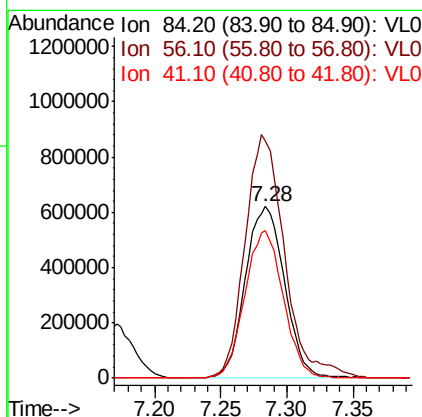
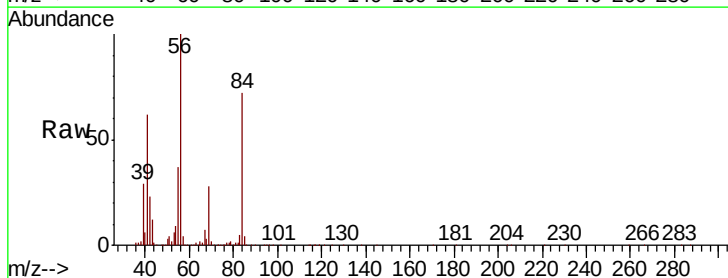
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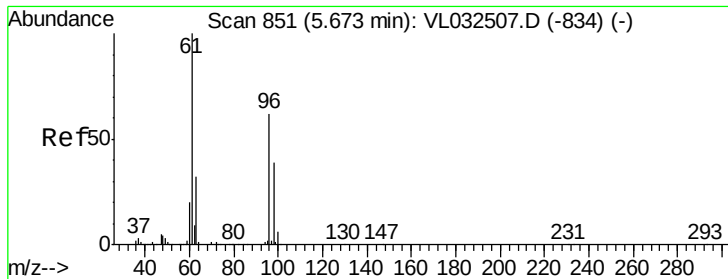
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#30
Cyclohexane
Concen: 11.758 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 84 Resp: 1275994
Ion Ratio Lower Upper
84 100
56 142.8 113.5 170.3
41 84.4 68.1 102.1





#31

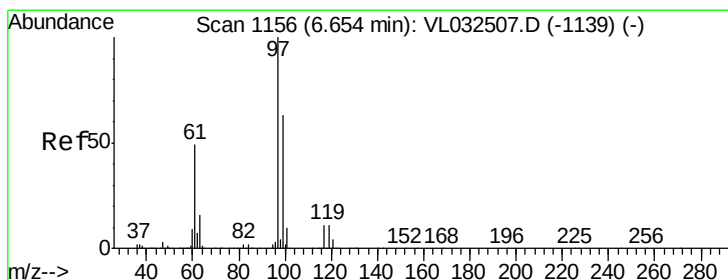
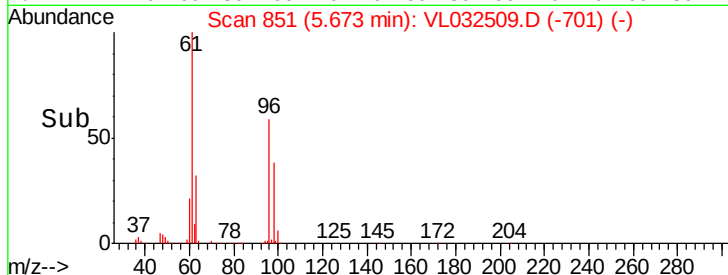
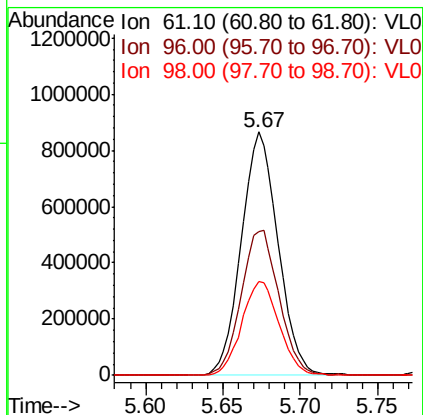
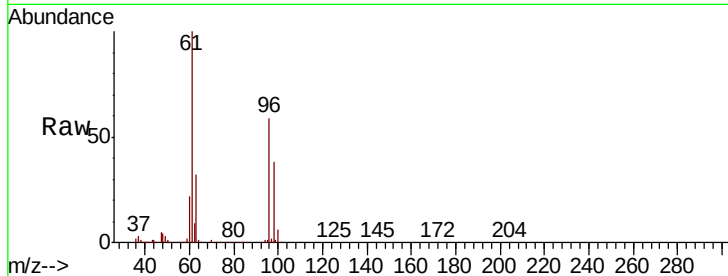
cis-1,2-Dichloroethene
 Concen: 10.667 ppbv
 RT: 5.67 min Scan# 851
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion	61	Resp	1431495
Ion	Ratio	Lower	Upper
61	100		
96	59.2	49.2	73.8
98	38.3	30.7	46.1

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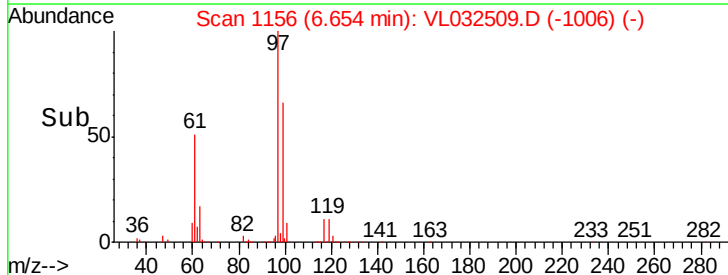
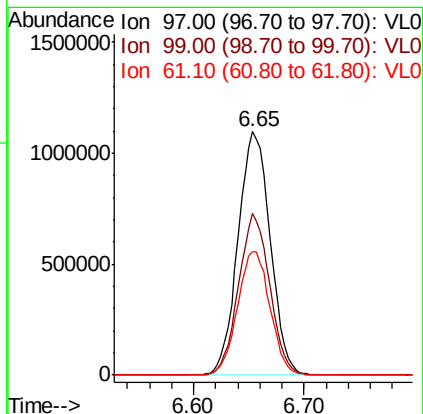
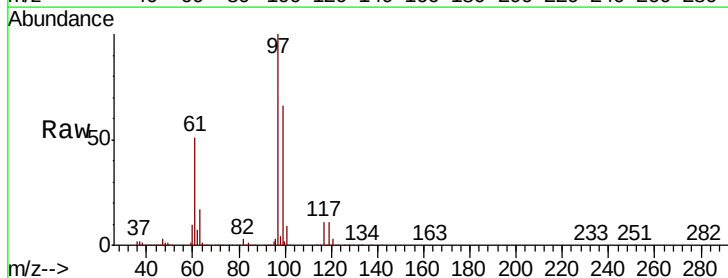
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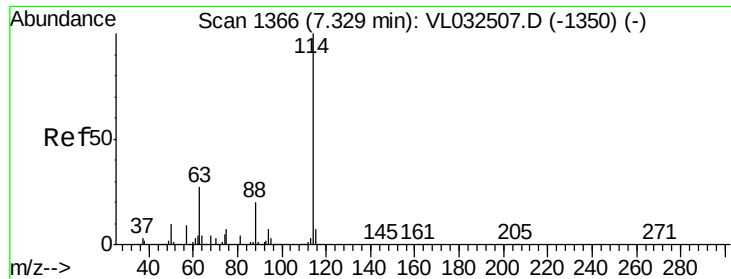


#32

1,1,1-Trichloroethane
 Concen: 10.532 ppbv
 RT: 6.65 min Scan# 1156
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion	97	Resp	2218377
Ion	Ratio	Lower	Upper
97	100		
99	64.3	52.1	78.1
61	51.2	42.5	63.7





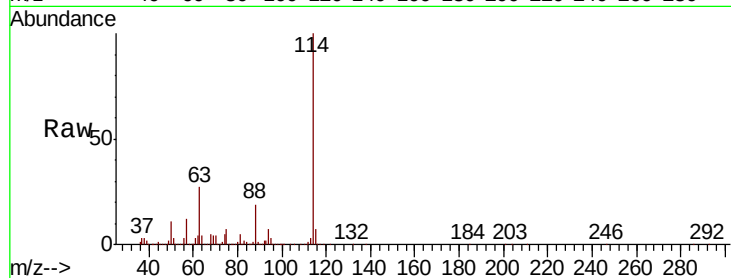
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1366
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

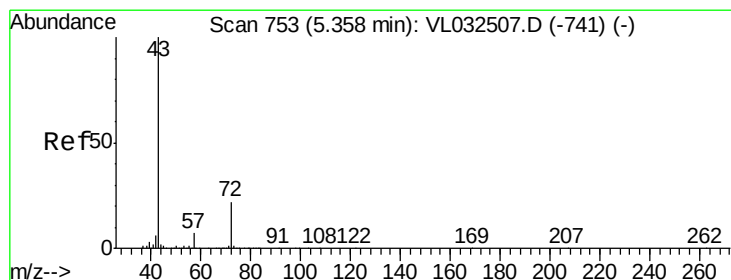
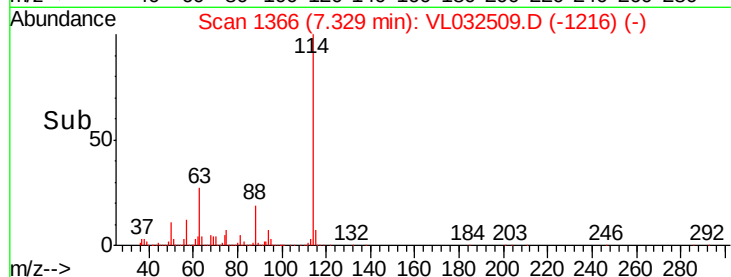
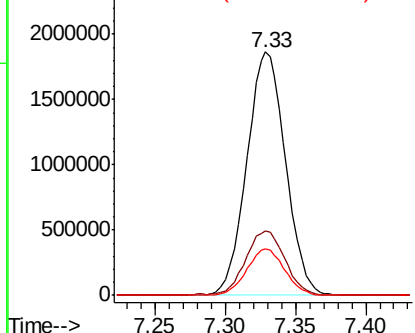
Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.2	33.4
88	18.8	15.0	22.4

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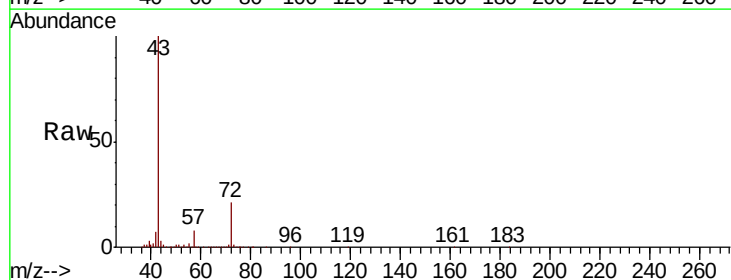


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

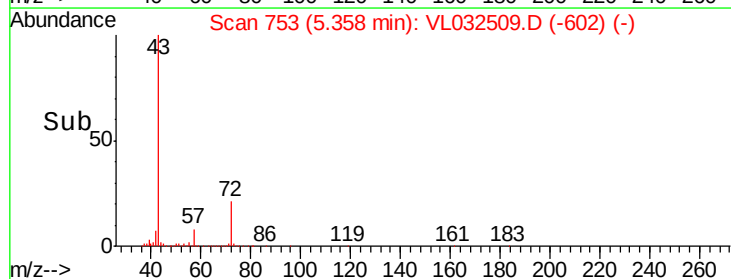
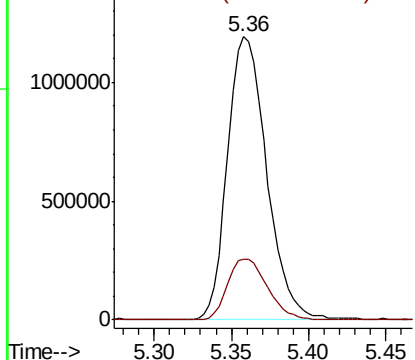


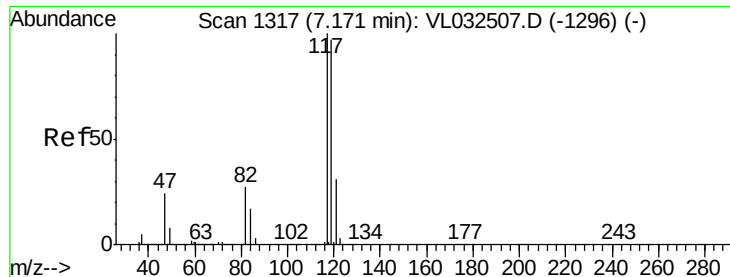
#34
 2-Butanone
 Concen: 8.796 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	17.8	26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.349 ppbv

RT: 7.17 min Scan# 1316

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion:117 Resp: 2243920

Ion Ratio Lower Upper

117 100

119 93.4 76.6 115.0

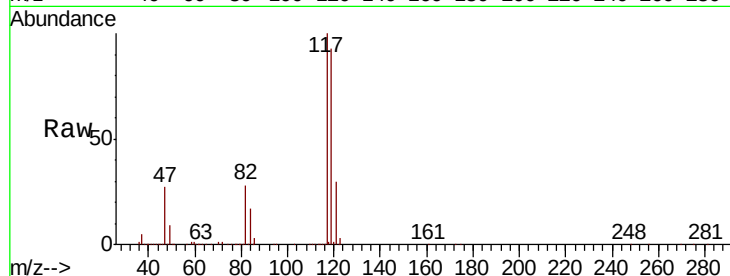
121 29.9 24.6 36.8

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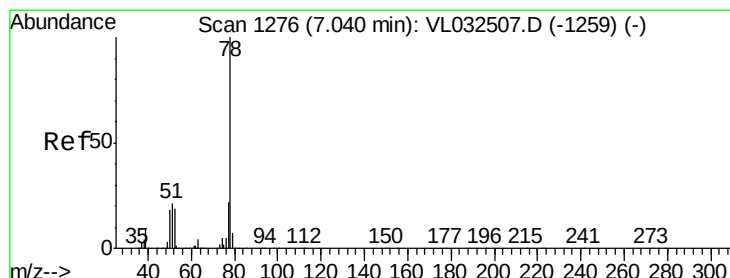
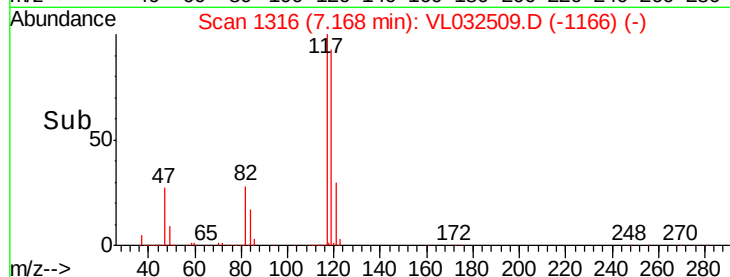
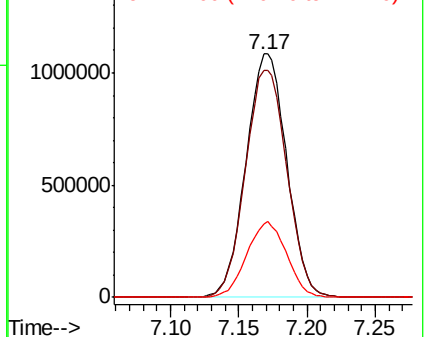
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.776 ppbv

RT: 7.04 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

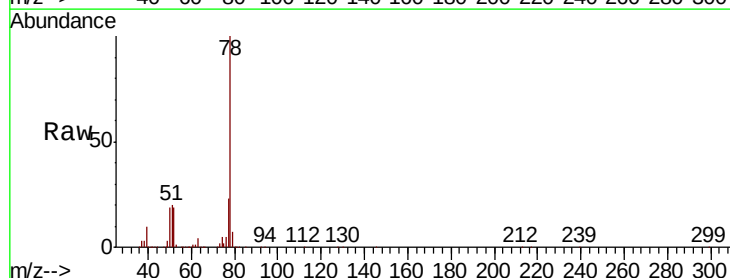
Tgt Ion: 78 Resp: 2970797

Ion Ratio Lower Upper

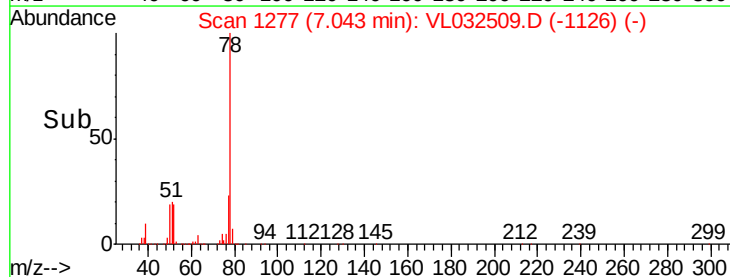
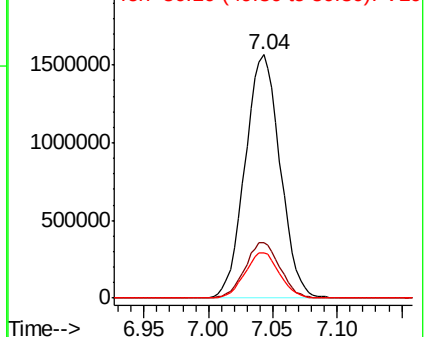
78 100

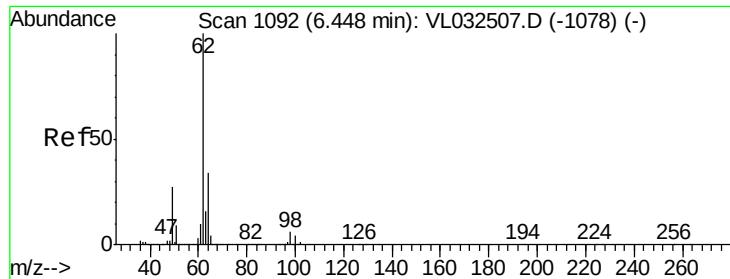
77 22.7 18.4 27.6

50 18.5 14.4 21.6



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





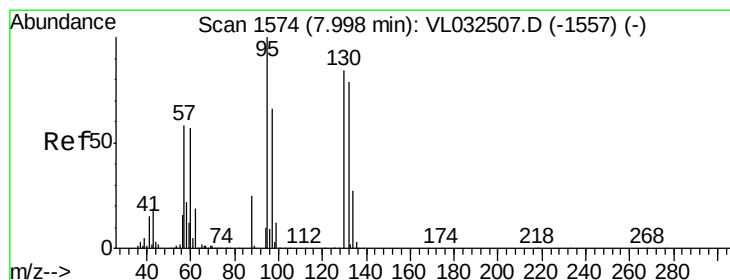
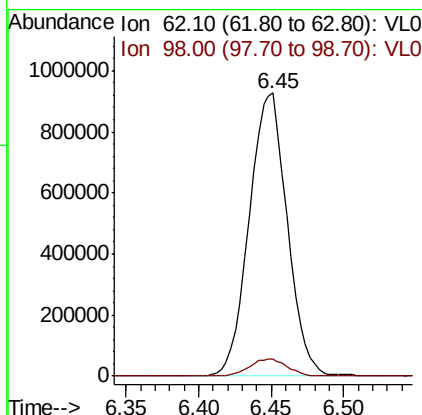
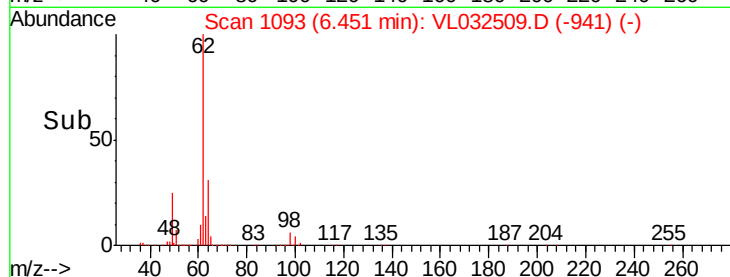
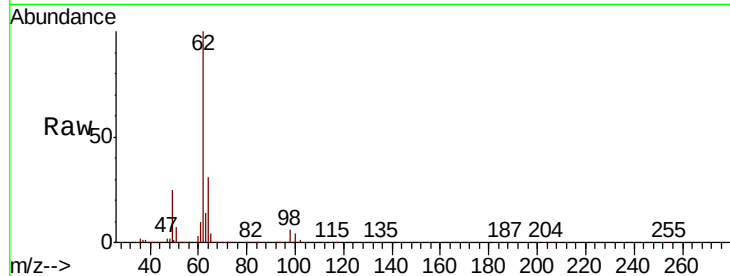
#37
 1,2-Dichloroethane
 Concen: 9.081 ppbv
 RT: 6.45 min Scan# 1093
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0920ABS01

Tot Ion: 62 Resp: 1691054
 Ion Ratio Lower Upper
 62 100
 98 6.1 5.0 7.6

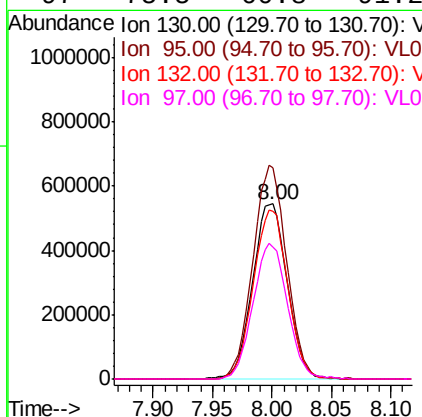
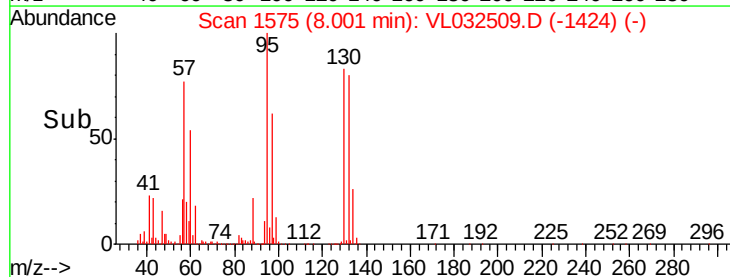
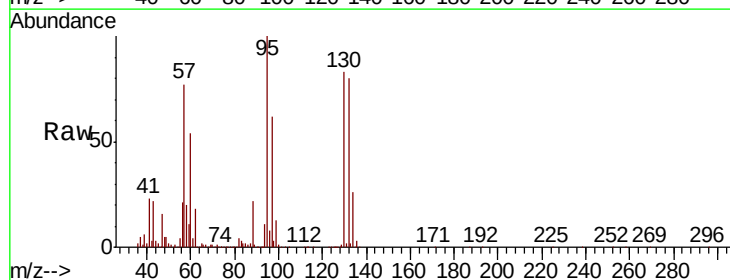
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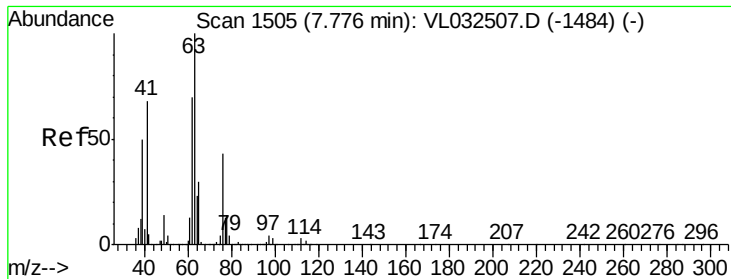
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#38
 Trichloroethene
 Concen: 9.511 ppbv
 RT: 8.00 min Scan# 1575
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion: 130 Resp: 1097897
 Ion Ratio Lower Upper
 130 100
 95 120.9 94.2 141.4
 132 96.1 76.2 114.4
 97 75.5 60.8 91.2





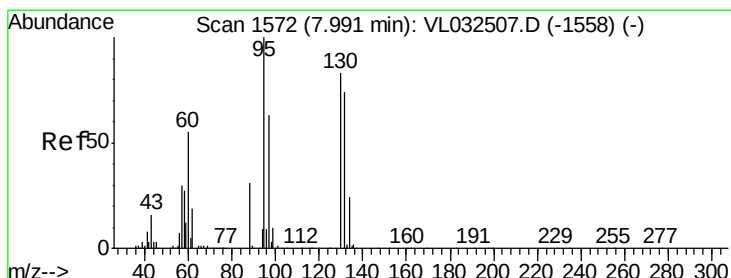
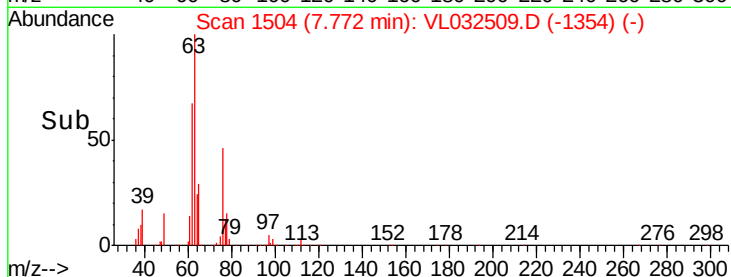
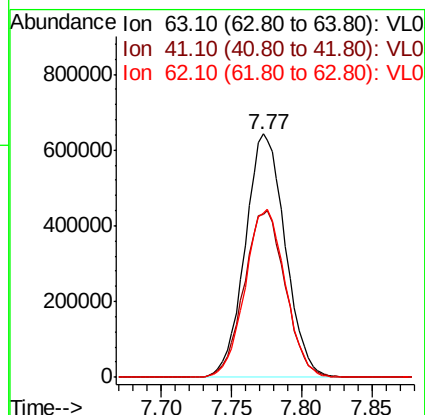
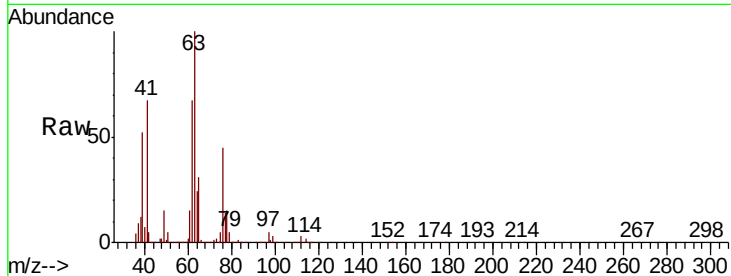
#39
 1,2-Dichloropropane
 Concen: 9.822 ppbv
 RT: 7.77 min Scan# 1504
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	67.1	55.4	83.0
62	67.1	55.4	83.0

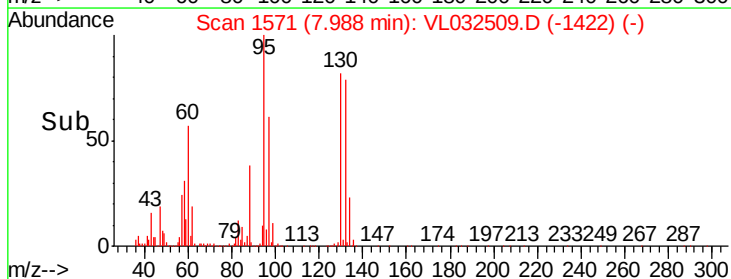
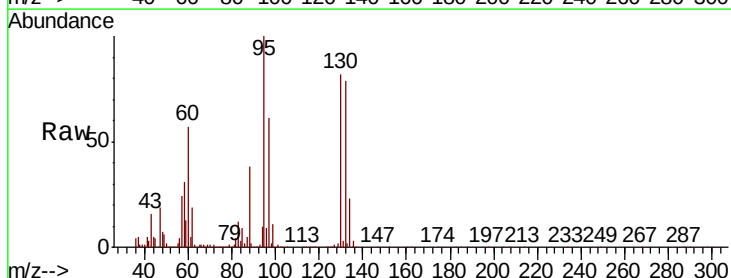
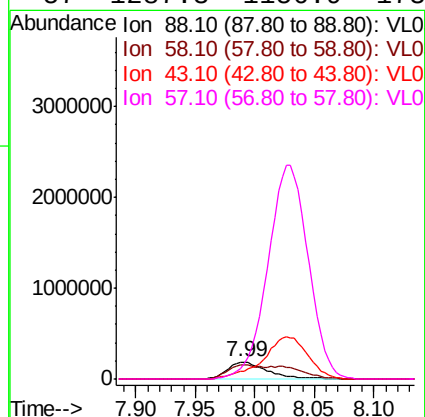
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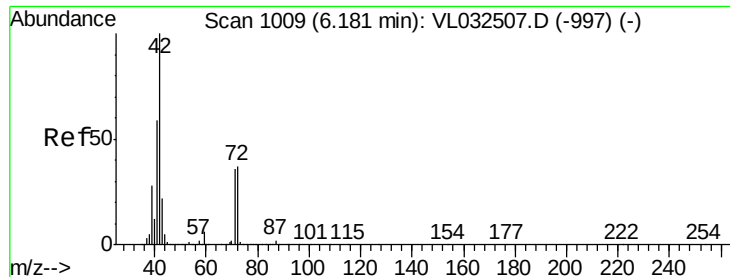
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#40
 1,4-Dioxane
 Concen: 11.027 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
88	100		
58	140.0	119.7	179.5
43	280.3	253.0	379.4
57	1287.3	1156.9	1735.3





#41

Tetrahydrofuran

Concen: 10.036 ppbv

RT: 6.18 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

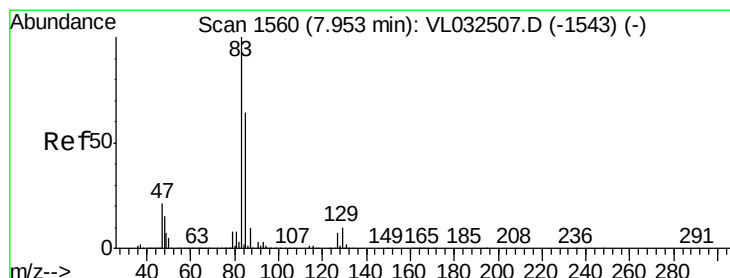
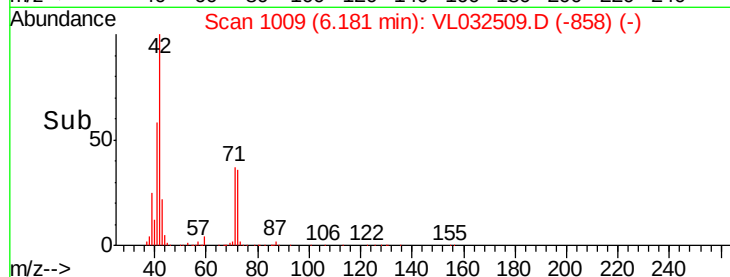
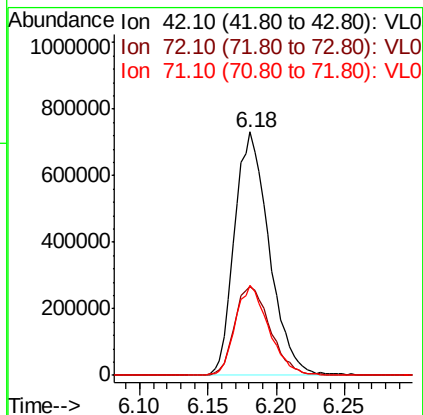
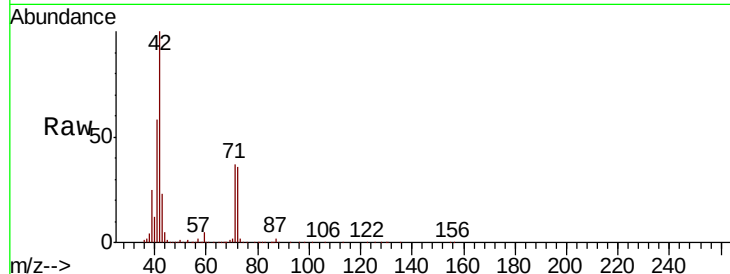
ClientSampleID :

VL0920ABS01

Tot Ion:	42	Resp:	1295892
Ion	Ratio	Lower	Upper
42	100		
72	37.5	29.5	44.3
71	35.9	28.3	42.5

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#42

Bromodichloromethane

Concen: 9.645 ppbv

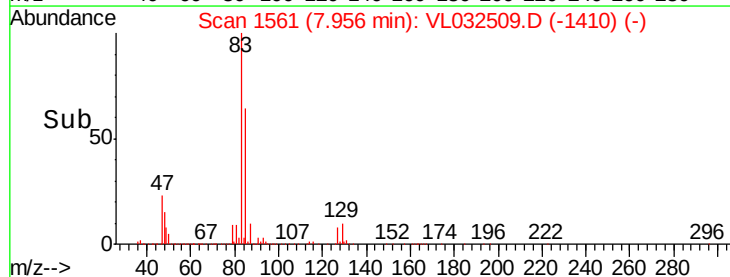
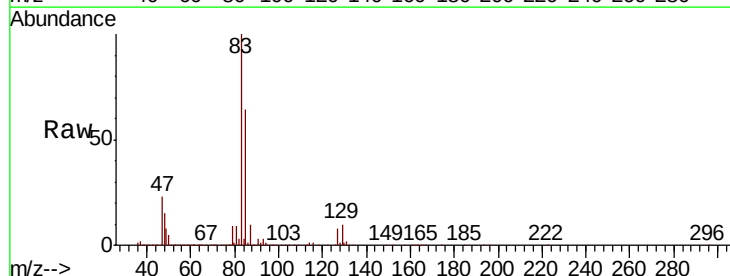
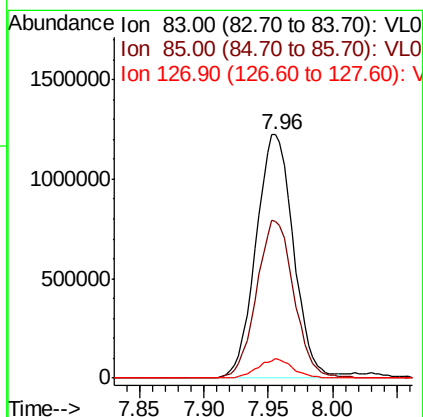
RT: 7.96 min Scan# 1561

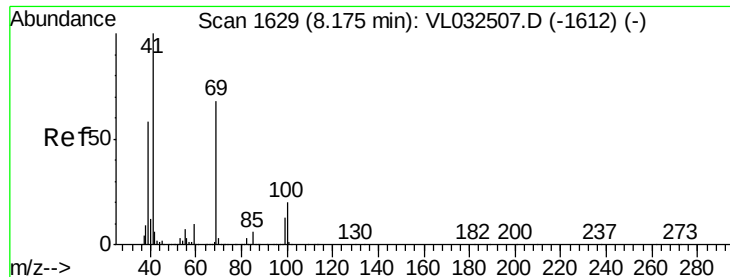
Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion:	83	Resp:	2477287
Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.1	76.7
127	7.8	5.8	8.8





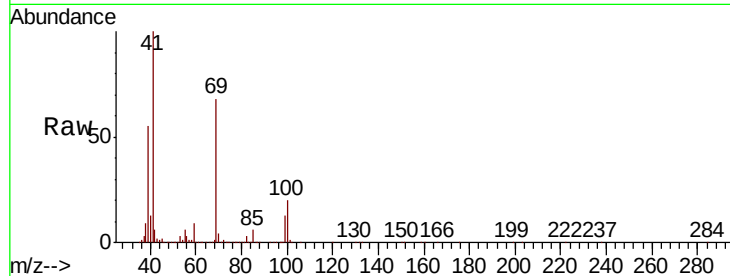
#43
Methyl Methacrylate
Concen: 9.986 ppbv
RT: 8.17 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleID :
VL0920ABS01

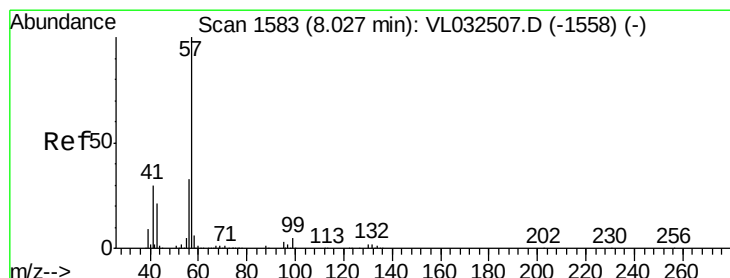
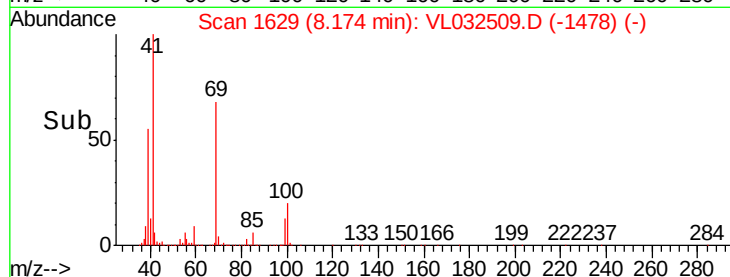
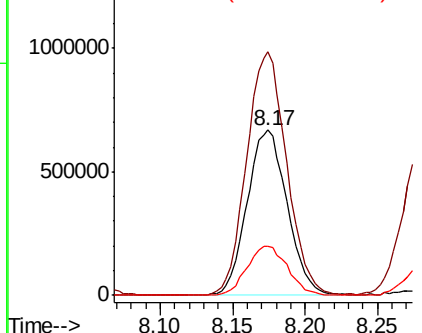
Tot Ion: 69 Resp: 1287374
Ion Ratio Lower Upper
69 100
41 146.9 117.1 175.7
100 30.1 23.4 35.2

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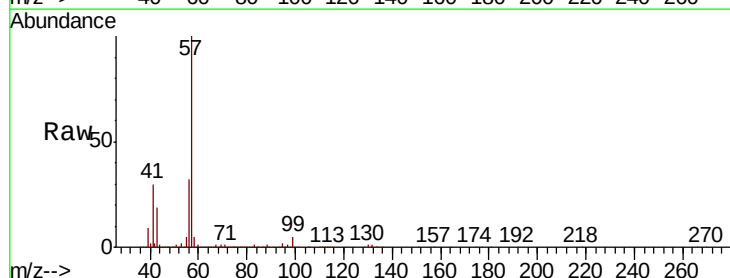


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

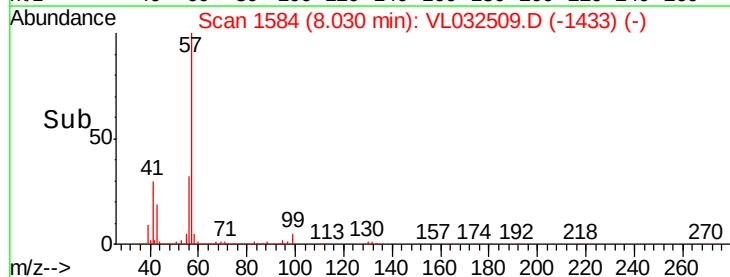
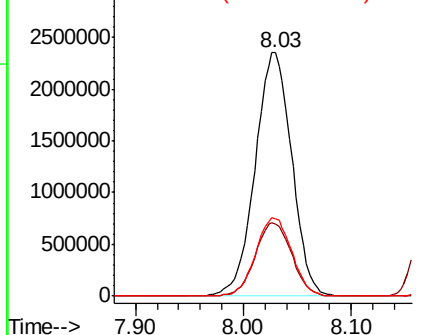


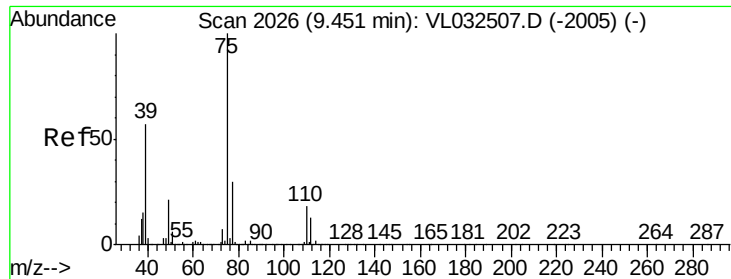
#44
2,2,4-Trimethylpentane
Concen: 9.415 ppbv
RT: 8.03 min Scan# 1584
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 57 Resp: 5531473
Ion Ratio Lower Upper
57 100
41 30.1 24.4 36.6
56 31.7 25.7 38.5



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 12.804 ppbv

RT: 9.45 min Scan# 2027

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 75 Resp: 1766434

Ion Ratio Lower Upper

75 100

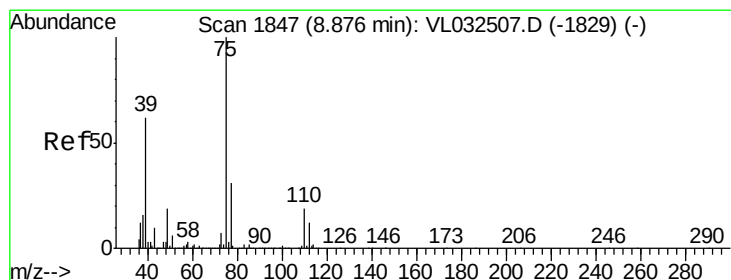
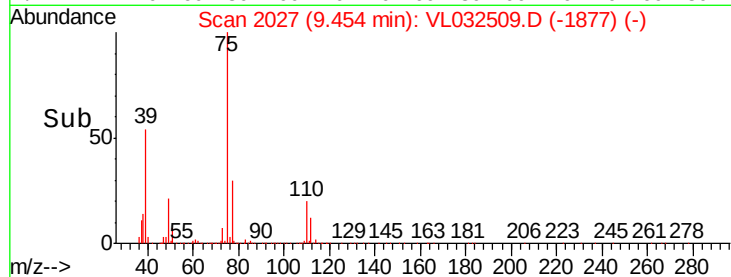
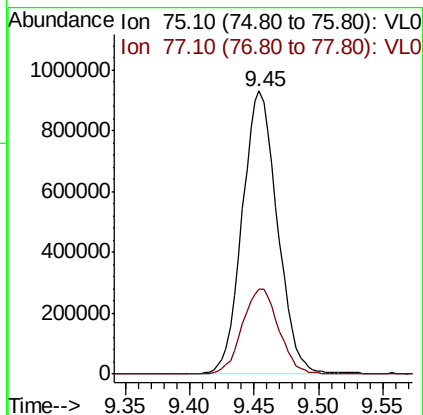
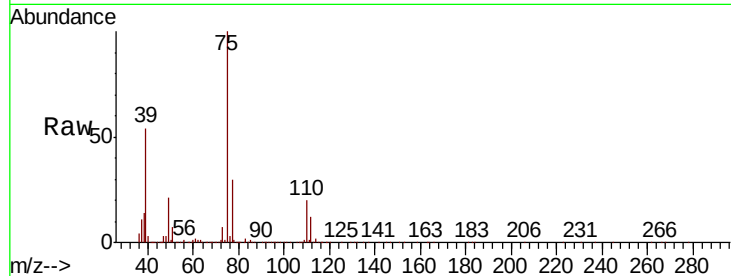
77 30.2 26.2 39.2

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#46

cis-1,3-Dichloropropene

Concen: 10.672 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

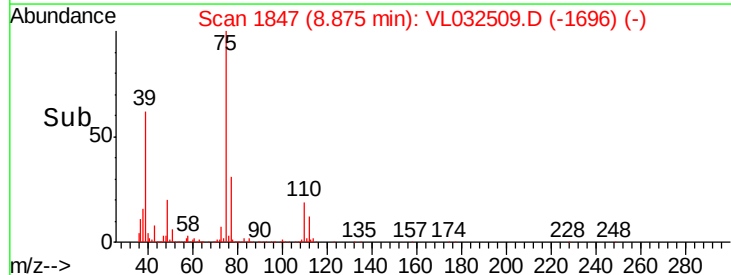
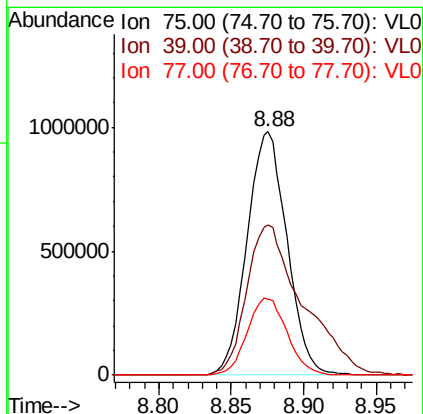
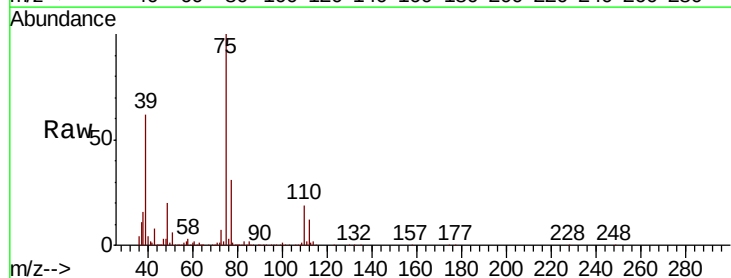
Tgt Ion: 75 Resp: 1881337

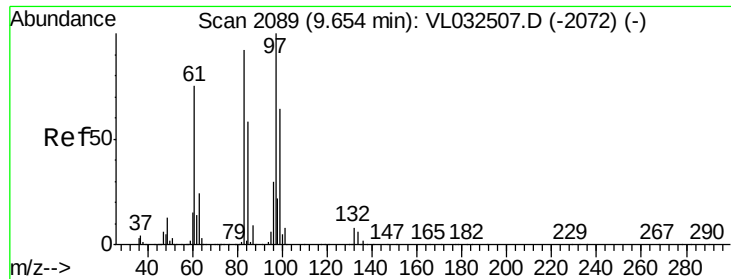
Ion Ratio Lower Upper

75 100

39 61.7 48.9 73.3

77 30.9 25.4 38.0





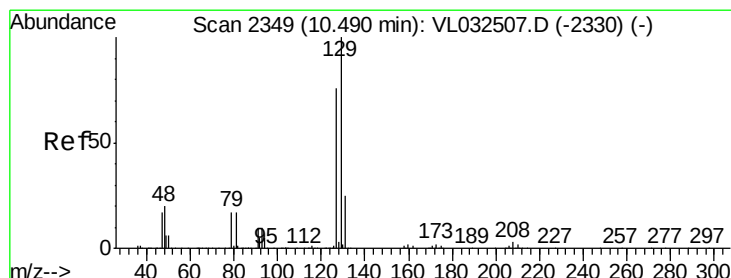
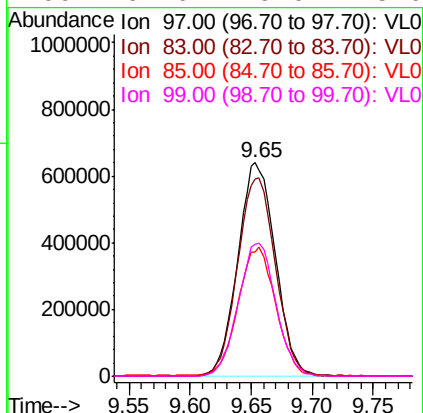
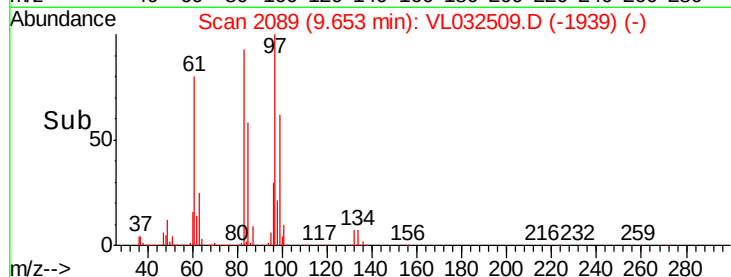
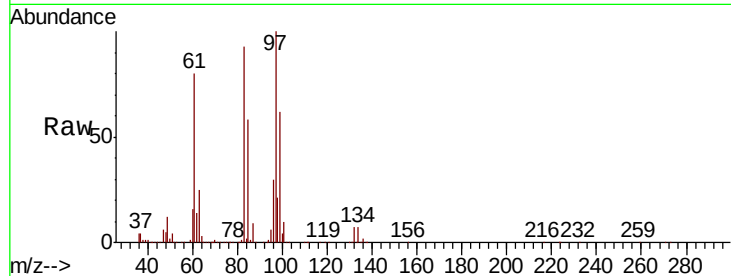
#47
 1,1,2-Trichloroethane
 Concen: 9.864 ppbv
 RT: 9.65 min Scan# 2089
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	92.5	75.0	112.4	
85	58.1	47.5	71.3	
99	61.6	49.0	73.6	

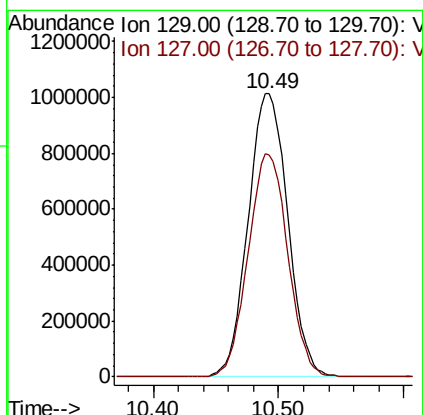
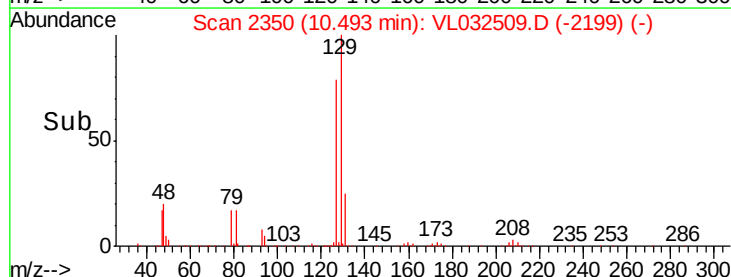
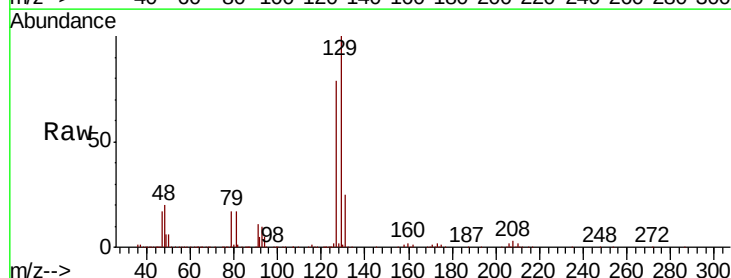
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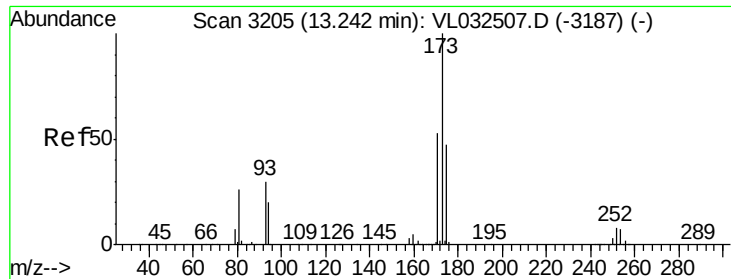
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#48
 Dibromochloromethane
 Concen: 11.668 ppbv
 RT: 10.49 min Scan# 2350
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.9	39.5	118.3	





#49

Bromoform

Concen: 10.183 ppbv

RT: 13.24 min Scan# 3206

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion:173 Resp: 1694496

Ion Ratio Lower Upper

173 100

175 49.1 38.9 58.3

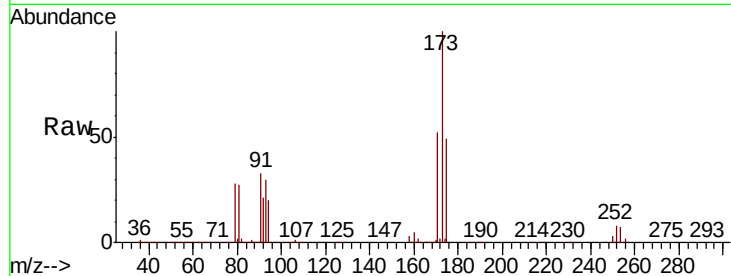
171 52.1 41.6 62.4

Manual Integrations

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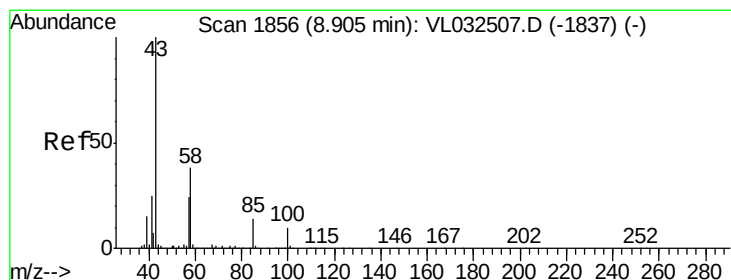
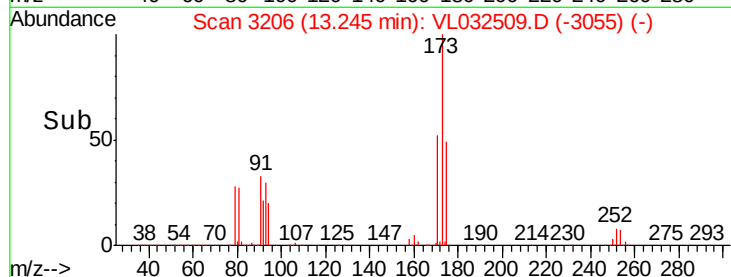
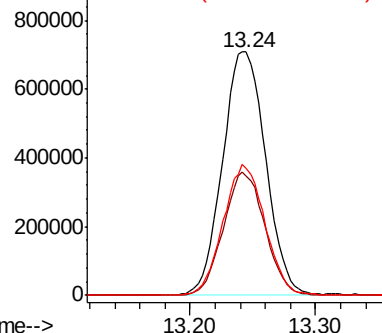
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.278 ppbv

RT: 8.91 min Scan# 1857

Delta R.T. -0.01 min

Lab File: VL032509.D

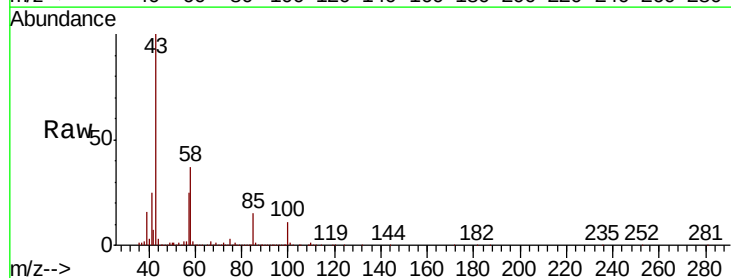
Acq: 20 Sep 2018 16:07

Tgt Ion: 43 Resp: 3315053

Ion Ratio Lower Upper

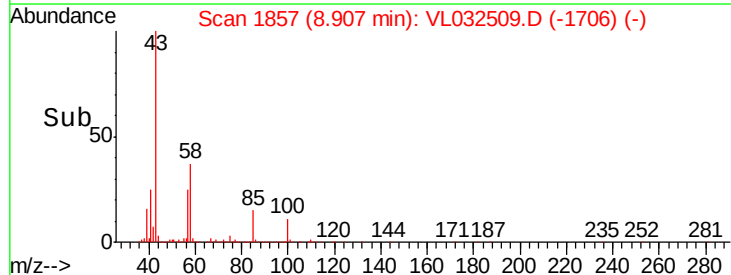
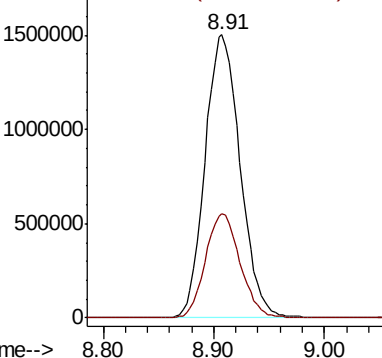
43 100

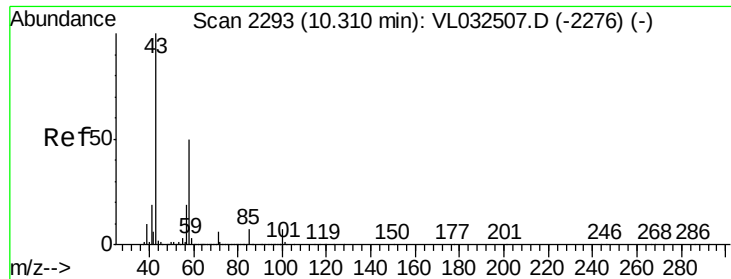
58 36.4 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.951 ppbv

RT: 10.31 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 43 Resp: 2980716

Ion Ratio Lower Upper

43 100

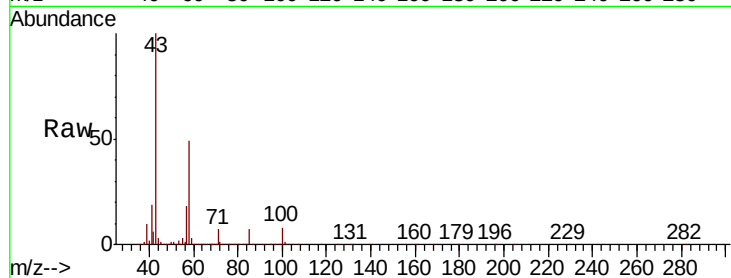
58 49.2 39.2 58.8

98 0.5 0.4 0.6

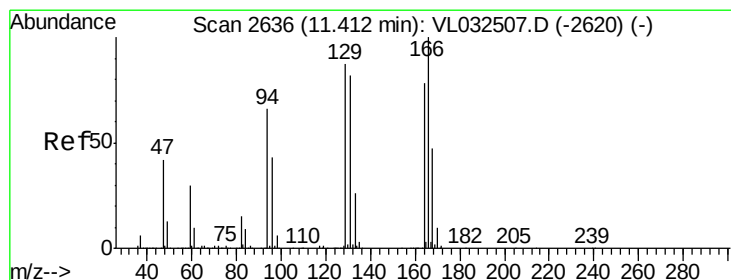
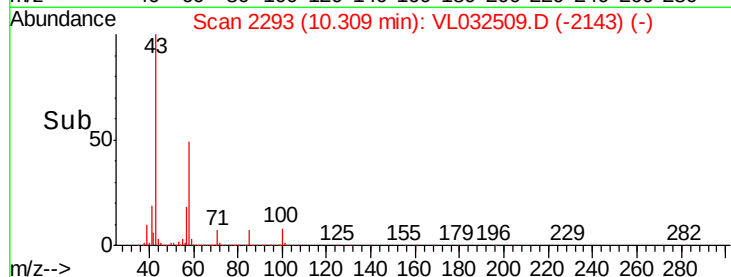
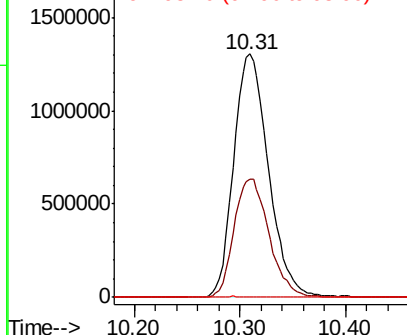
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.282 ppbv

RT: 11.41 min Scan# 2636

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 164 Resp: 968883

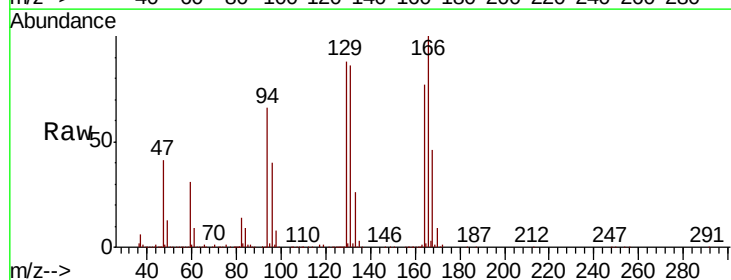
Ion Ratio Lower Upper

164 100

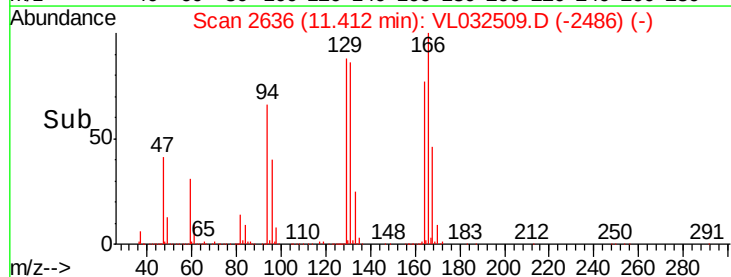
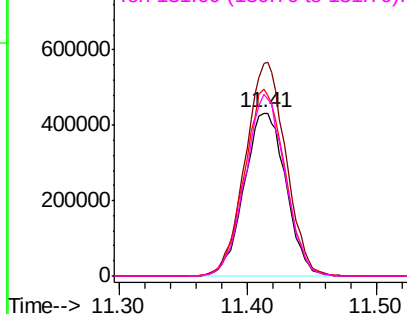
166 130.1 100.6 150.8

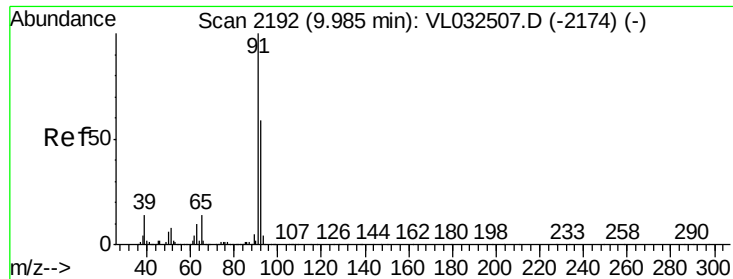
129 114.5 89.9 134.9

131 111.5 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: 11.988 ppbv

RT: 9.99 min Scan# 2193

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 91 Resp: 3807930

Ion Ratio Lower Upper

91 100

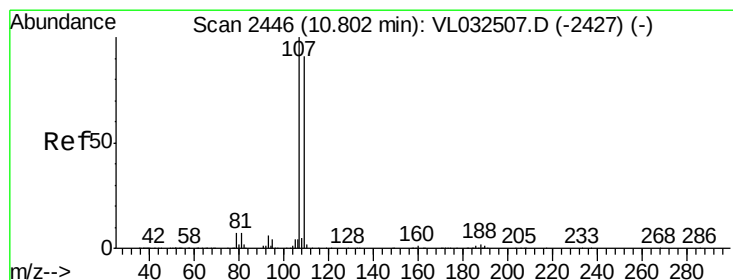
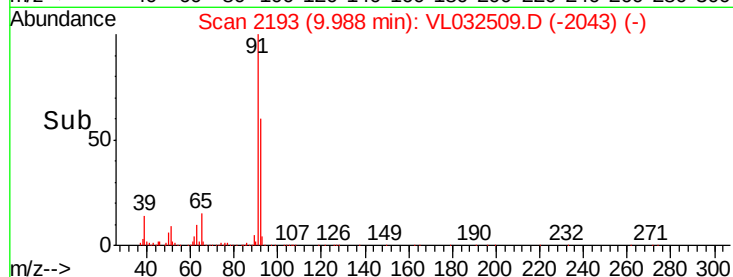
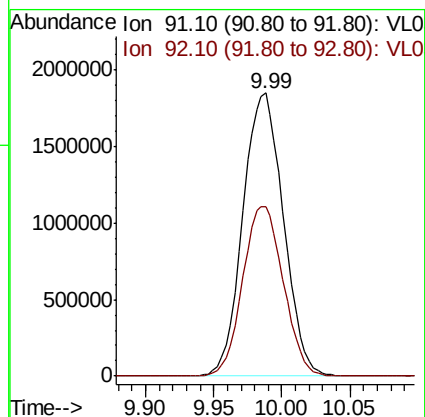
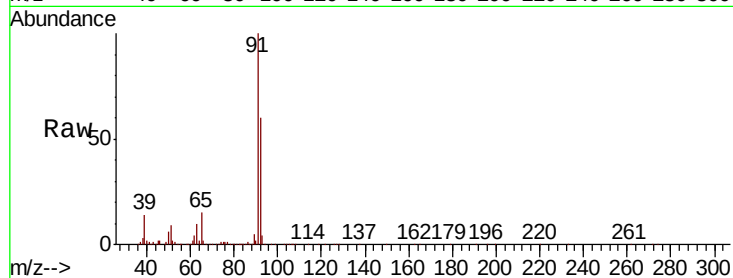
92 60.4 48.1 72.1

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#54

1,2-Dibromoethane

Concen: 11.021 ppbv

RT: 10.80 min Scan# 2446

Delta R.T. -0.01 min

Lab File: VL032509.D

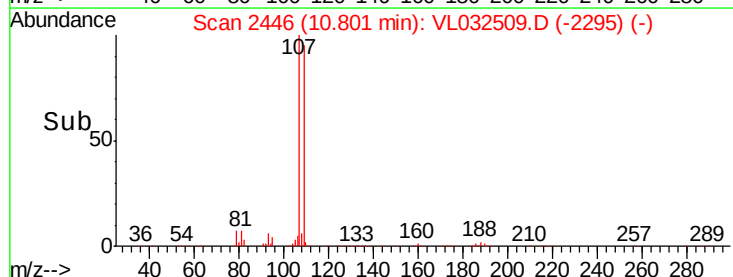
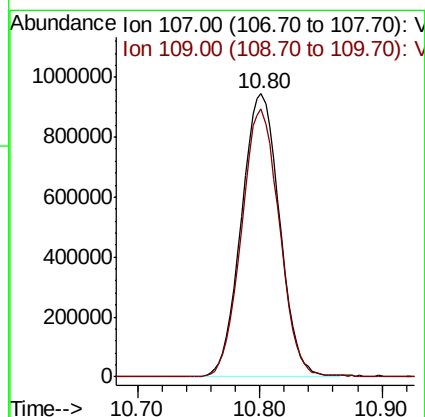
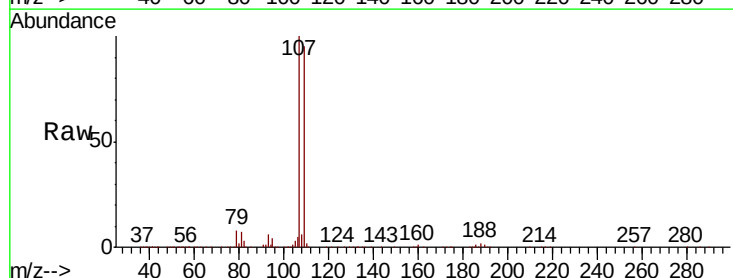
Acq: 20 Sep 2018 16:07

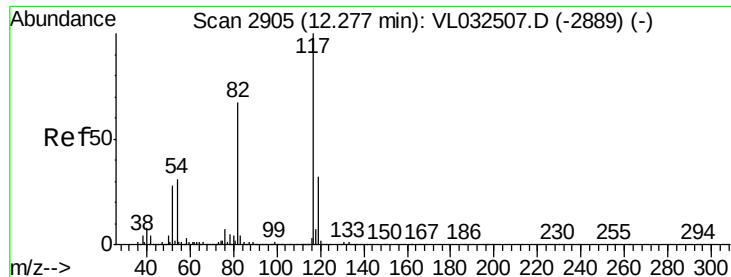
Tgt Ion: 107 Resp: 2045580

Ion Ratio Lower Upper

107 100

109 94.5 73.9 110.9





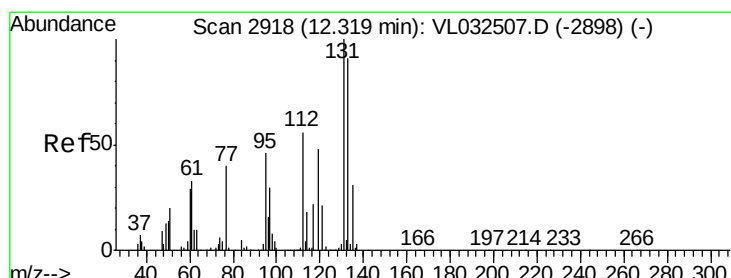
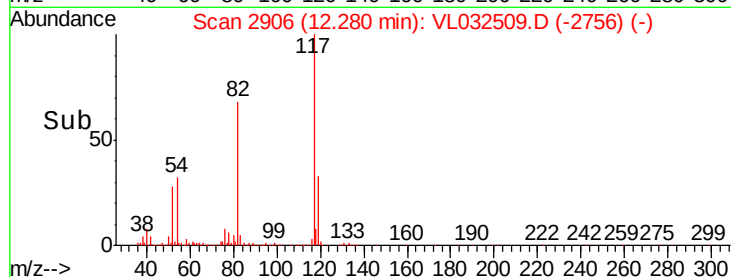
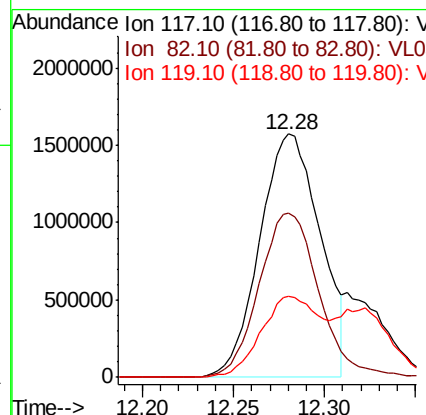
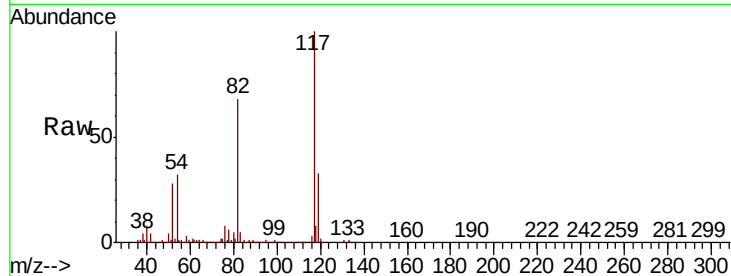
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.28 min Scan# 2906
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion:117 Resp: 3648340
Ion Ratio Lower Upper
117 100
82 67.1 53.0 79.6
119 57.8 45.9 68.9

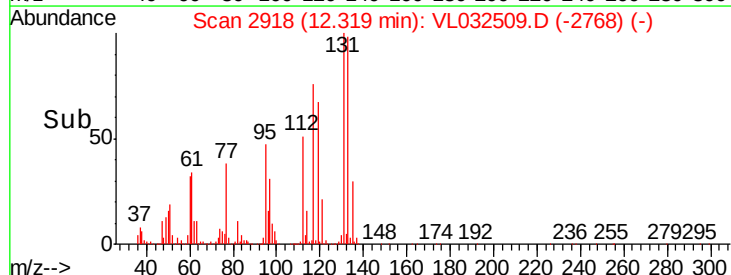
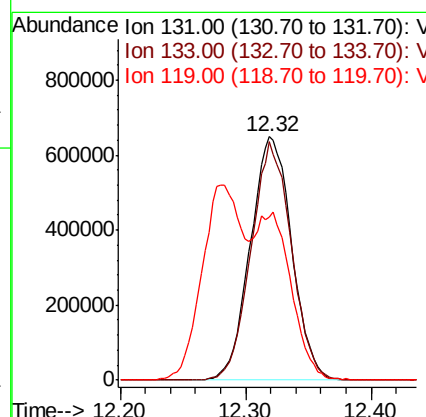
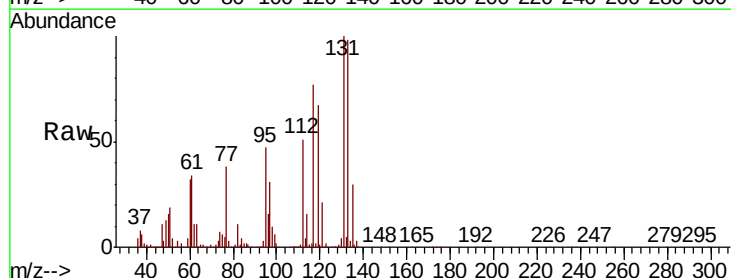
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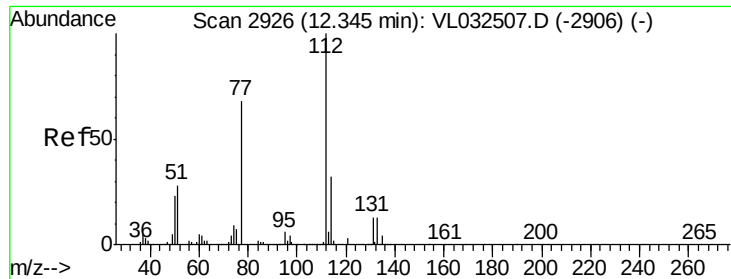
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.042 ppbv
RT: 12.32 min Scan# 2918
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion:131 Resp: 1487171
Ion Ratio Lower Upper
131 100
133 95.4 77.0 115.4
119 60.8 114.2 171.2#





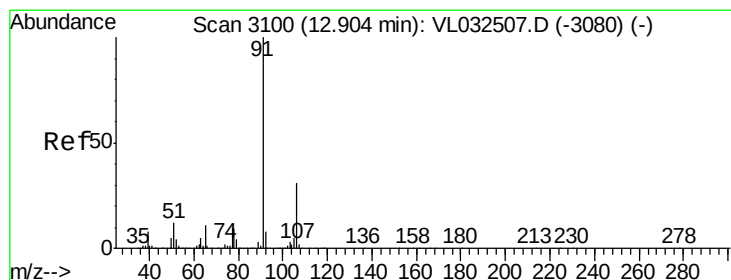
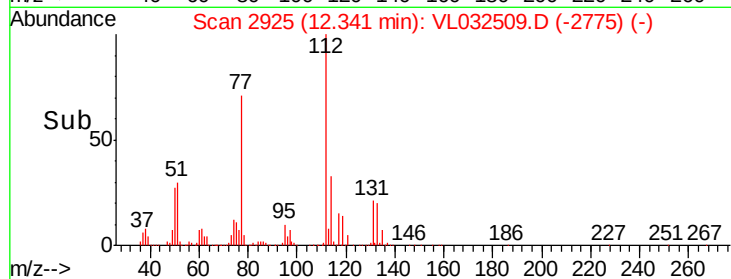
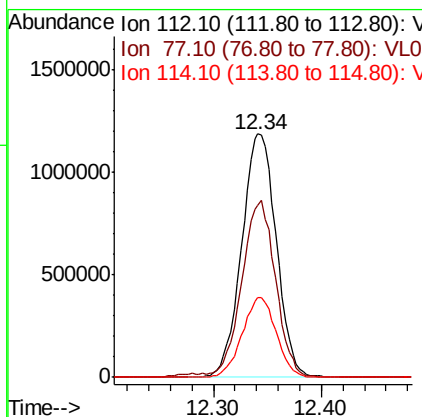
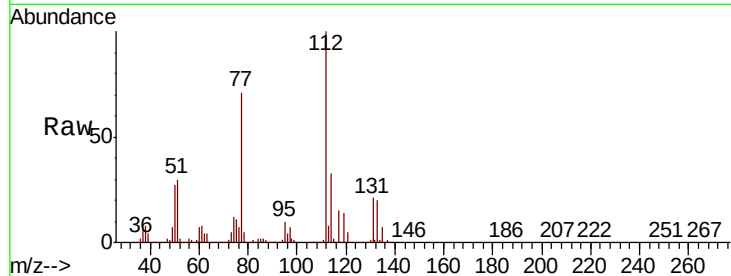
#57
Chlorobenzene
Concen: 9.049 ppbv
RT: 12.34 min Scan# 2925
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.4	56.1	84.1
114	32.8	27.8	34.0

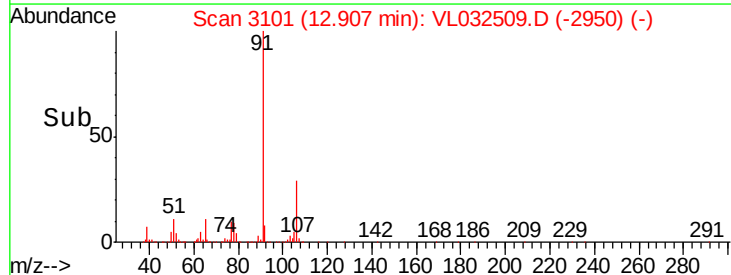
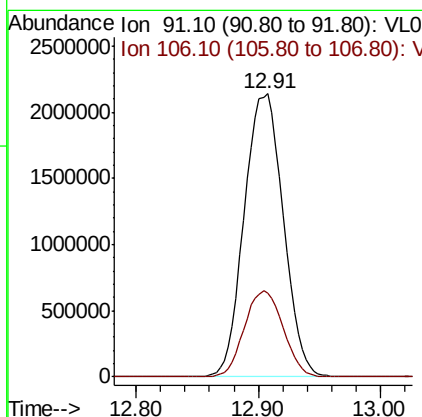
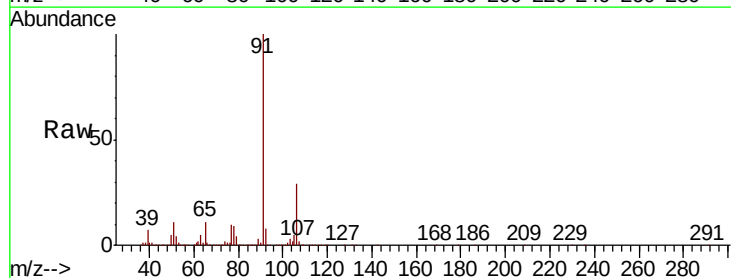
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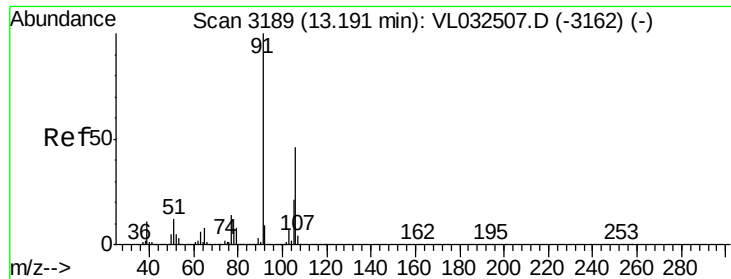
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#58
Ethyl Benzene
Concen: 10.876 ppbv
RT: 12.91 min Scan# 3101
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.4	24.8	37.2





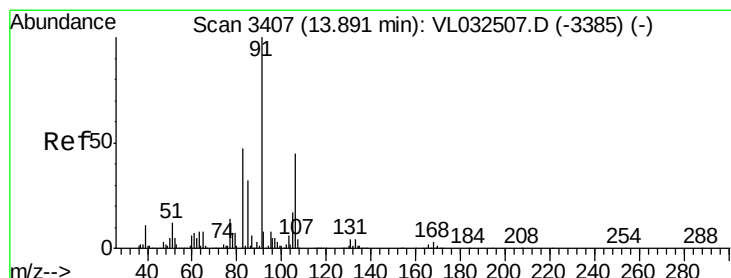
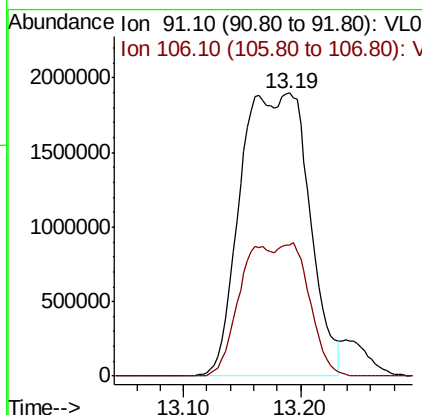
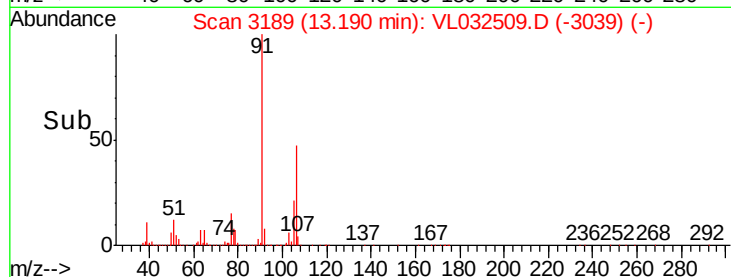
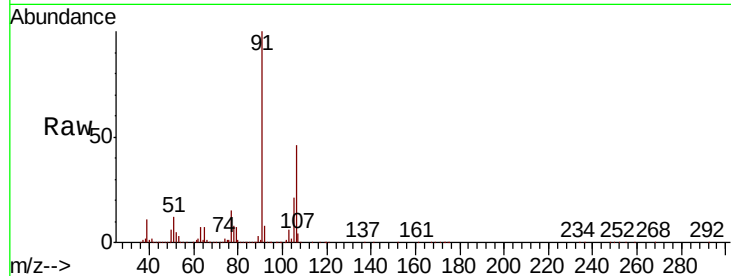
#59
m/p-Xylene
Concen: 19.926 ppbv m
RT: 13.19 min Scan# 3189
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion: 91 Resp: 7755969
Ion Ratio Lower Upper
91 100
106 45.8 36.6 55.0

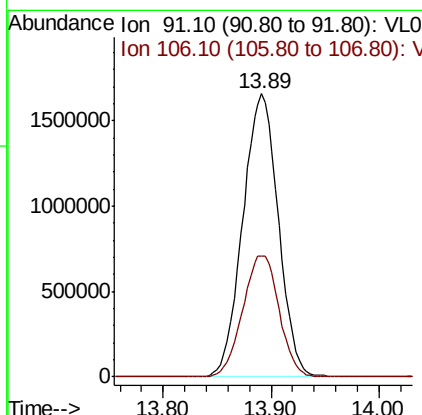
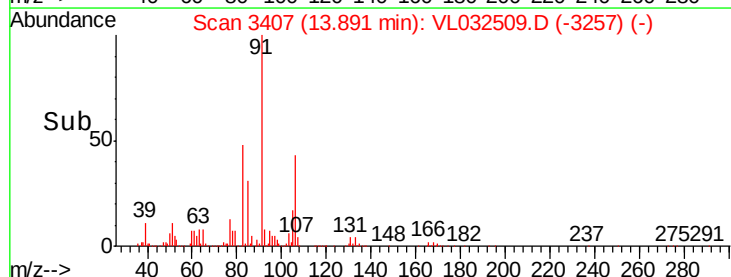
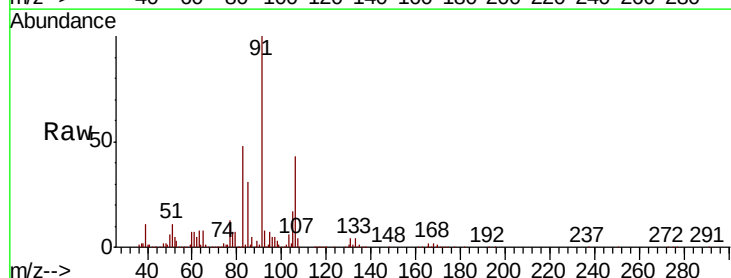
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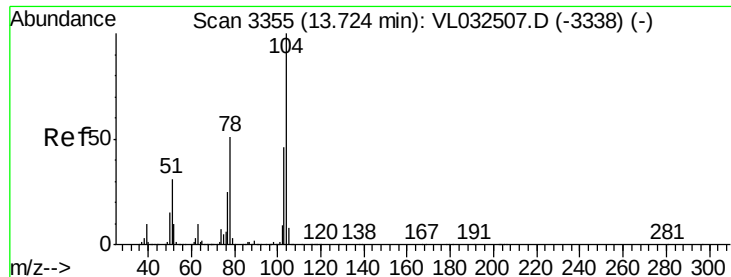
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#60
o-Xylene
Concen: 9.895 ppbv
RT: 13.89 min Scan# 3407
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 91 Resp: 3783471
Ion Ratio Lower Upper
91 100
106 43.8 21.9 65.7





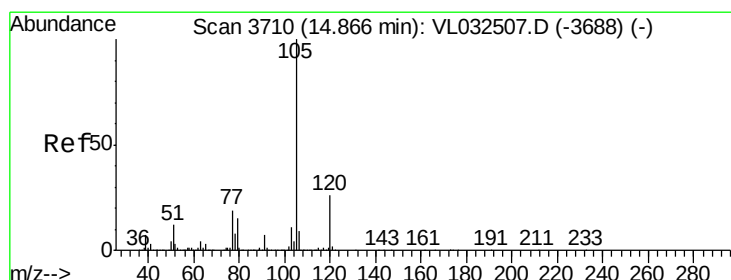
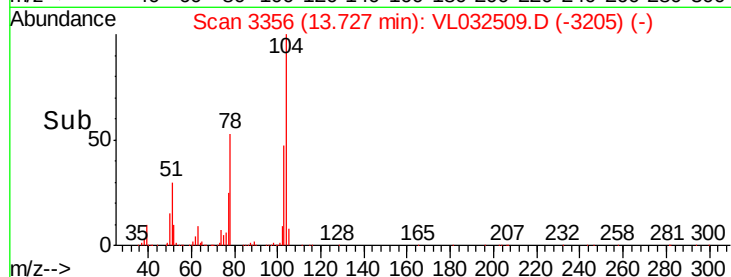
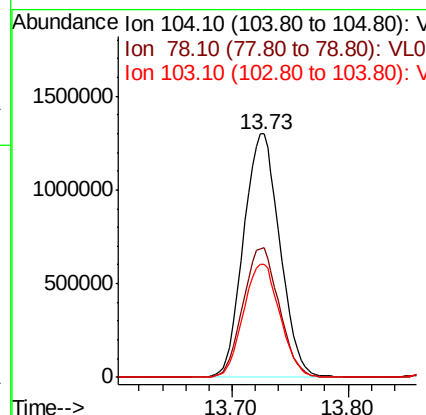
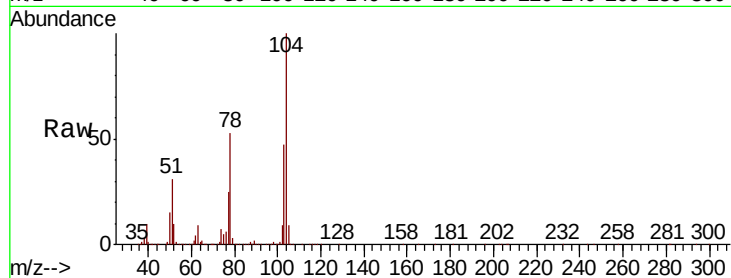
#61
Stvrene
Concen: 11.412 ppbv
RT: 13.73 min Scan# 3356
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.1	41.8	62.8
103	46.9	38.0	57.0

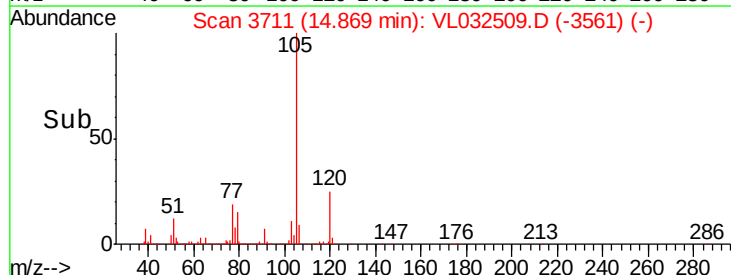
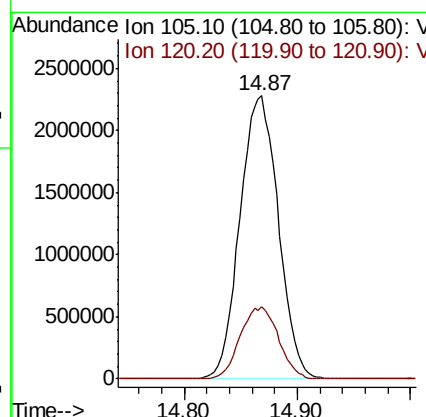
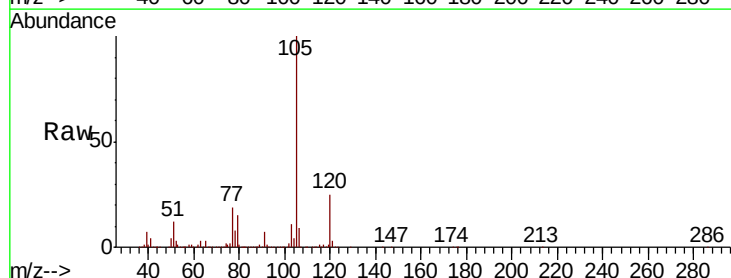
Manual Integrations
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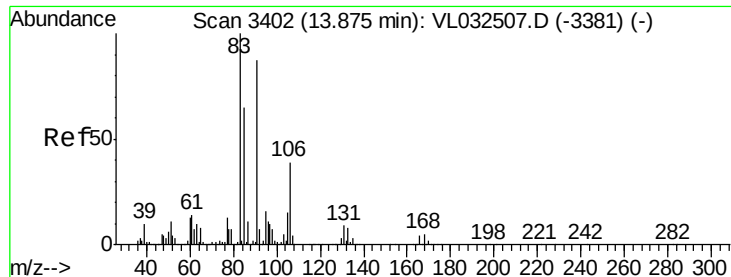
MMDadoda
9/24/2018 11:19:57 AM



#62
Isopropylbenzene
Concen: 9.990 ppbv
RT: 14.87 min Scan# 3711
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 8.299 ppbv

RT: 13.88 min Scan# 3403

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 83 Resp: 2837169

Ion Ratio Lower Upper

83 100

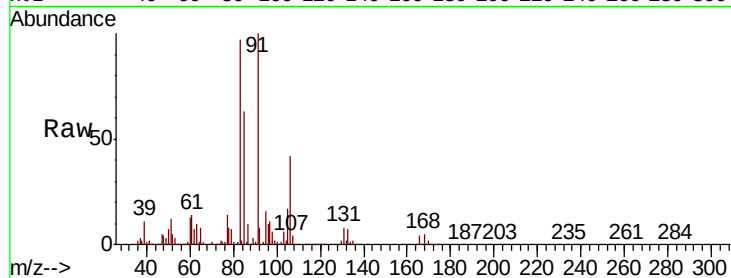
131 8.4 4.3 12.8

85 65.3 32.3 96.8

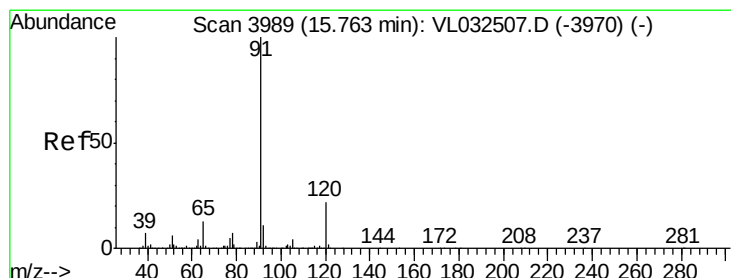
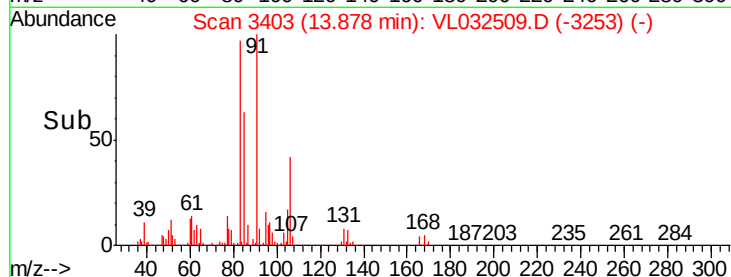
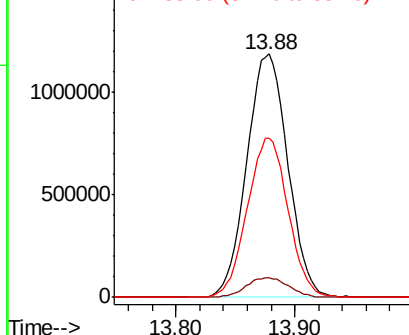
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.821 ppbv

RT: 15.76 min Scan# 3988

Delta R.T. -0.02 min

Lab File: VL032509.D

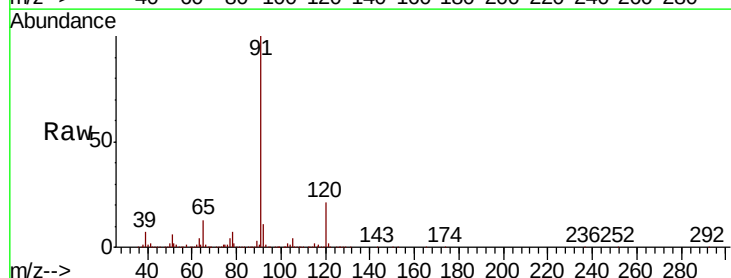
Acq: 20 Sep 2018 16:07

Tgt Ion: 120 Resp: 1380041

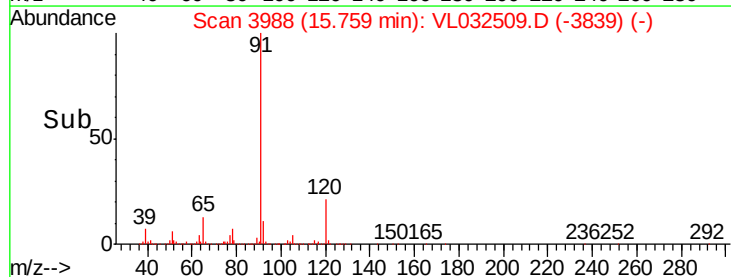
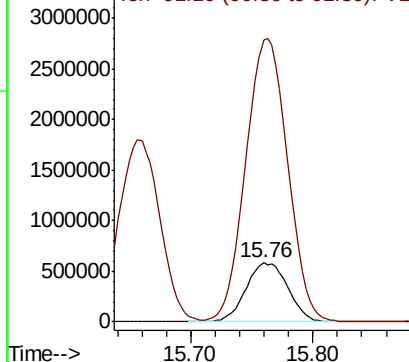
Ion Ratio Lower Upper

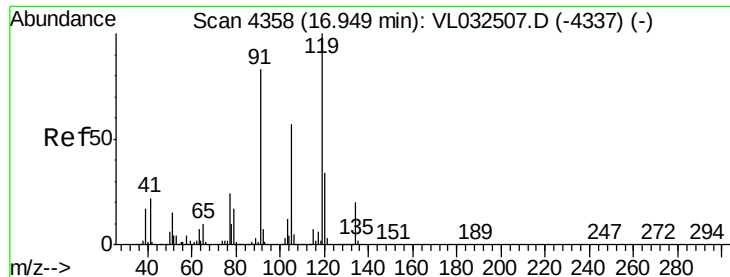
120 100

91 482.6 381.8 572.6



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





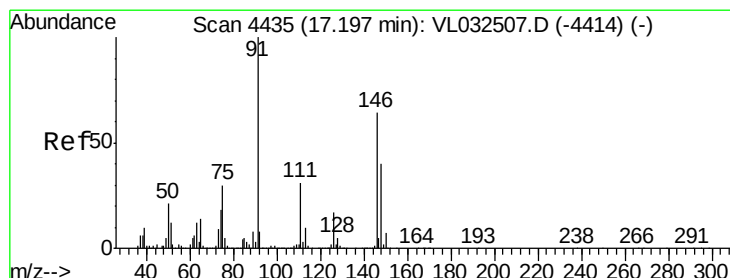
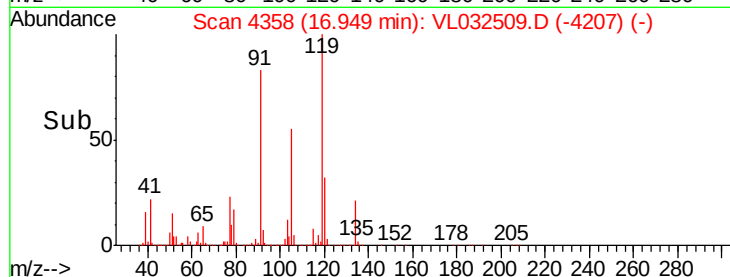
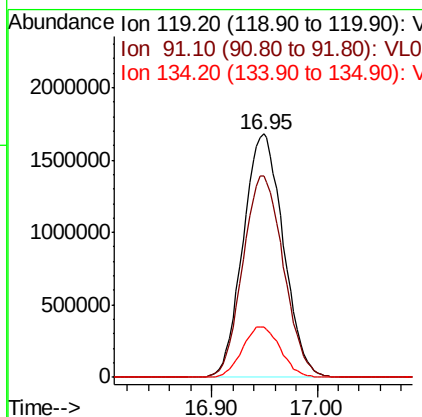
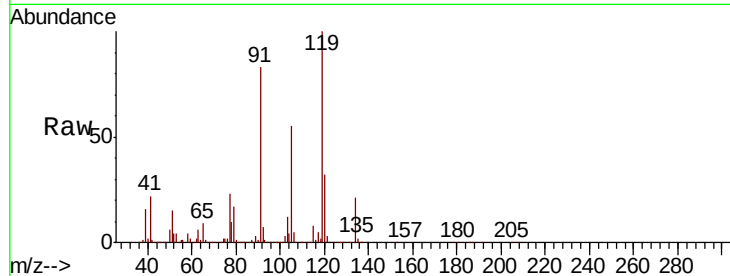
#65
 tert-Butylbenzene
 Concen: 9.596 ppbv
 RT: 16.95 min Scan# 4358
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion: 119 Resp: 4444309
 Ion Ratio Lower Upper
 119 100
 91 84.0 66.5 99.7
 134 19.8 16.0 24.0

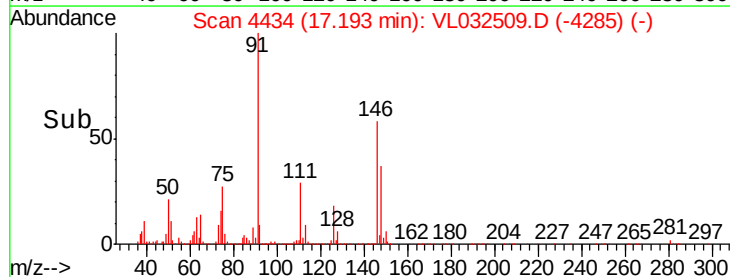
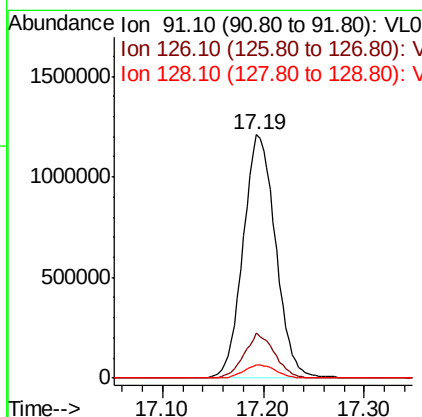
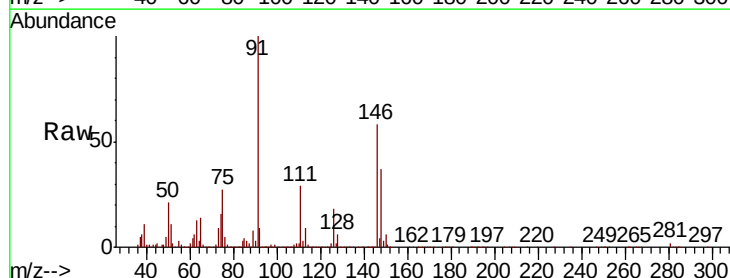
Manual Integrations
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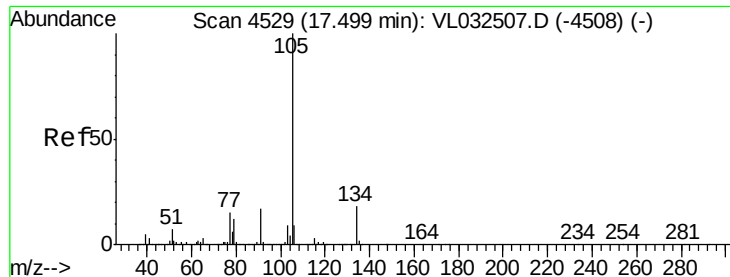
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#66
 Benzyl Chloride
 Concen: 10.428 ppbv
 RT: 17.19 min Scan# 4434
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion: 91 Resp: 2690505
 Ion Ratio Lower Upper
 91 100
 126 17.4 13.8 20.8
 128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.426 ppbv

RT: 17.50 min Scan# 4529

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 105 Resp: 6565276

Ion Ratio Lower Upper

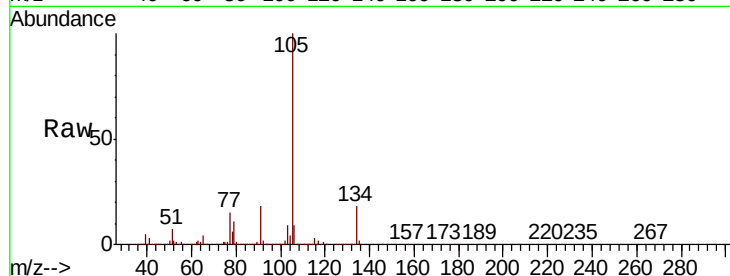
105 100

134 17.7 14.4 21.6

Manual Integrations
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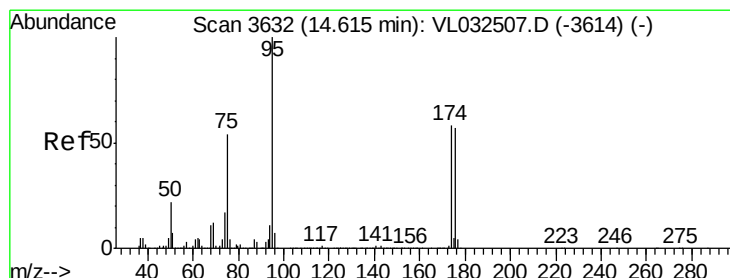
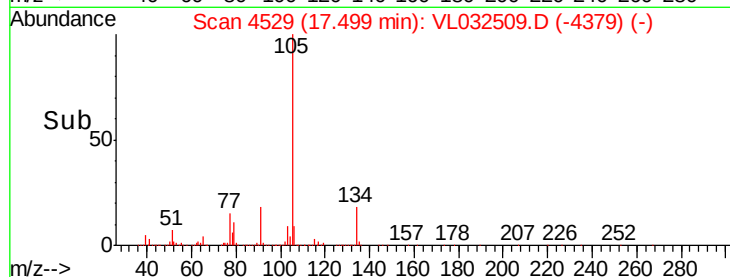
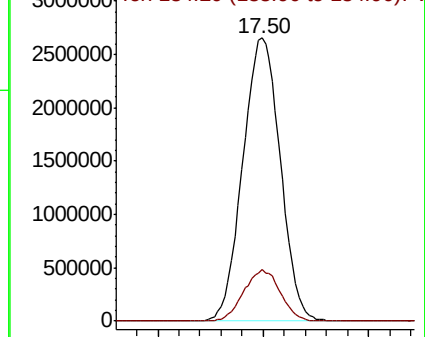
MMDadoda

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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: 10.403 ppbv

RT: 14.61 min Scan# 3632

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

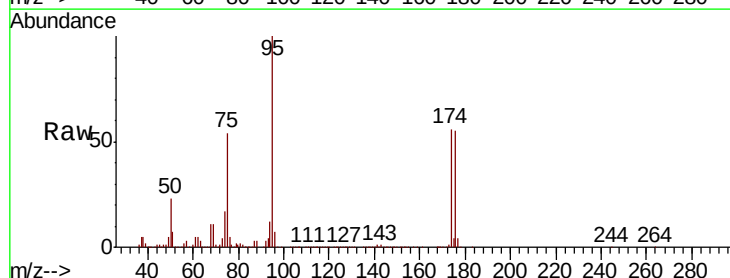
Tgt Ion: 95 Resp: 2817822

Ion Ratio Lower Upper

95 100

174 57.0 46.3 69.5

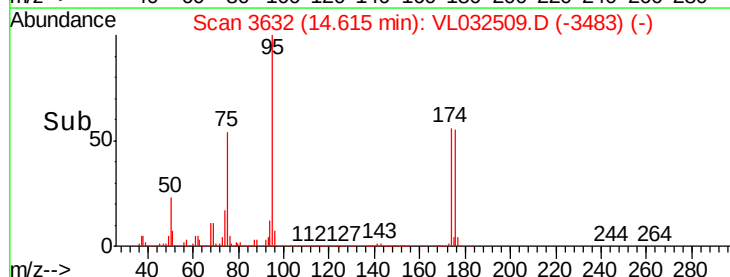
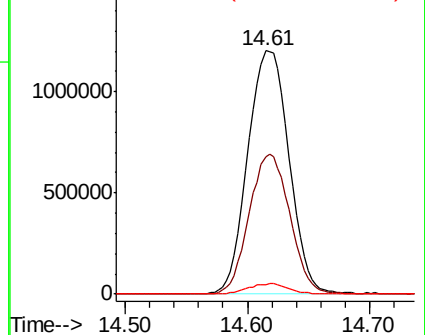
175 4.2 3.4 5.0

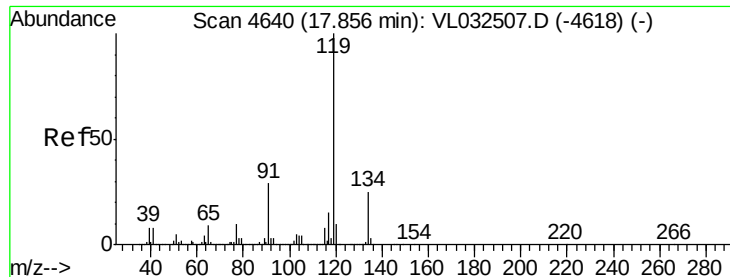


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





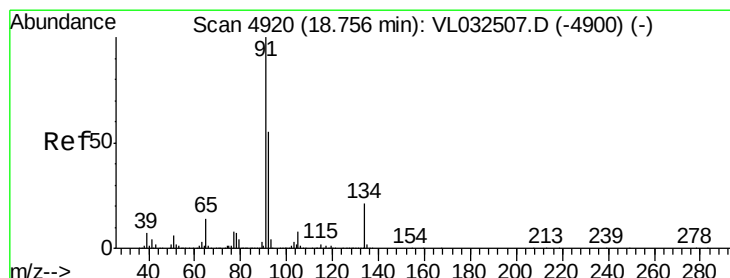
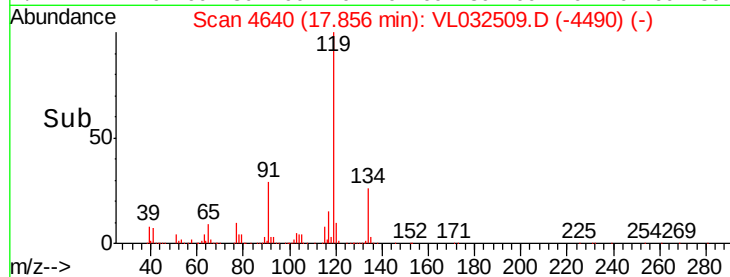
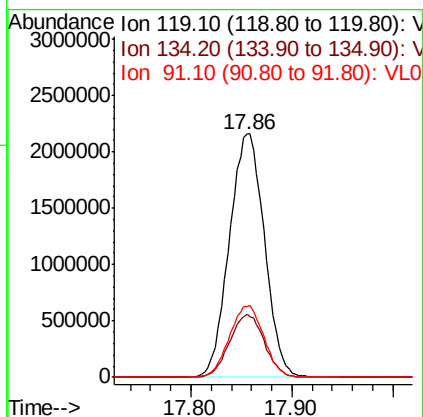
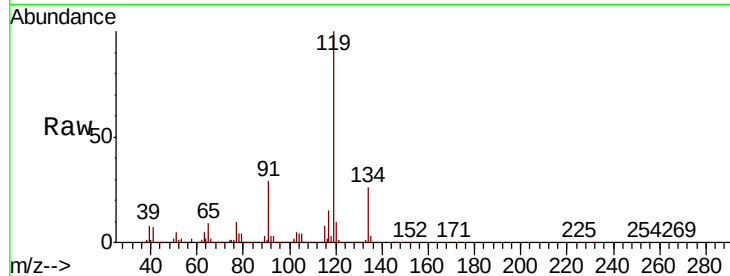
#69
 p-Isopropyltoluene
 Concen: 9.664 ppbv
 RT: 17.86 min Scan# 4640
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion:	119	Resp:	5216831
Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.4	30.6
91	29.2	23.4	35.2

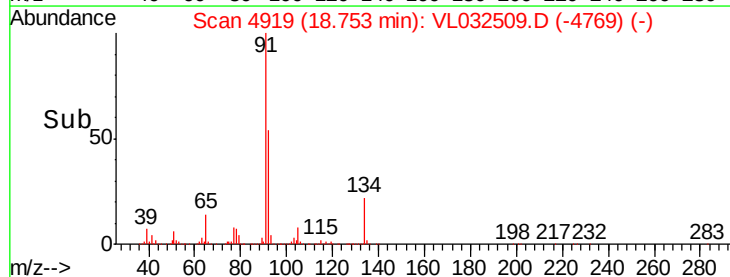
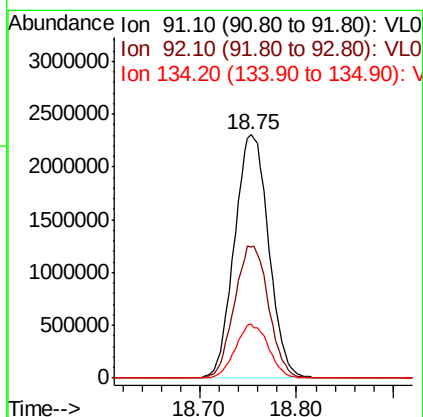
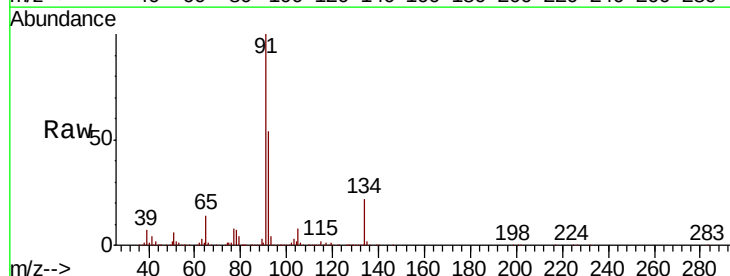
Manual Integrations
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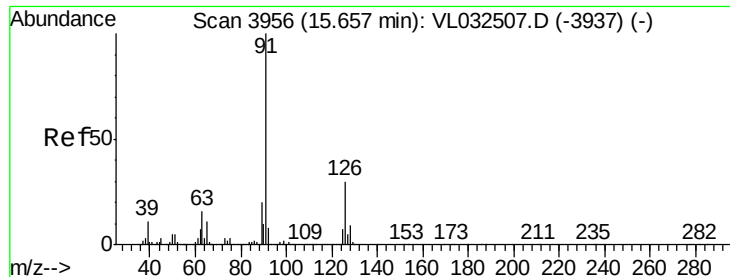
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#70
 n-Butylbenzene
 Concen: 9.233 ppbv
 RT: 18.75 min Scan# 4919
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion:	91	Resp:	5649958
Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.8	65.8
134	21.4	17.4	26.0





#71

2-Chlorotoluene

Concen: 10.175 ppbv

RT: 15.66 min Scan# 3956

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion: 91 Resp: 4178220

Ion Ratio Lower Upper

91 100

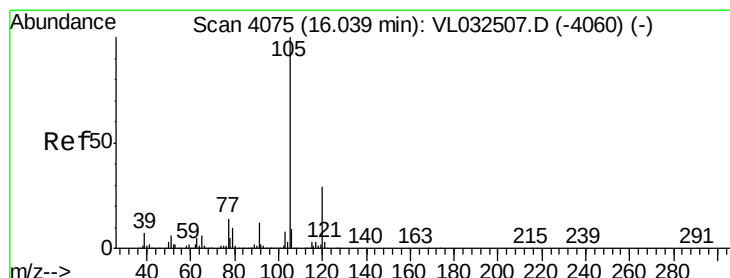
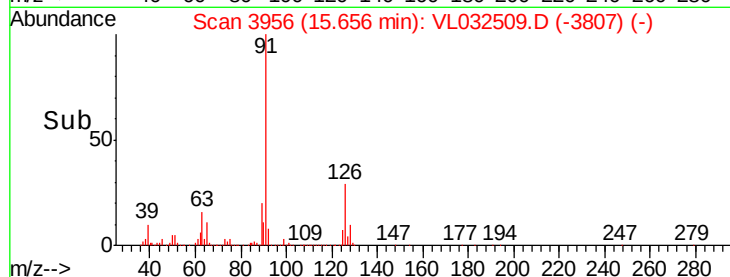
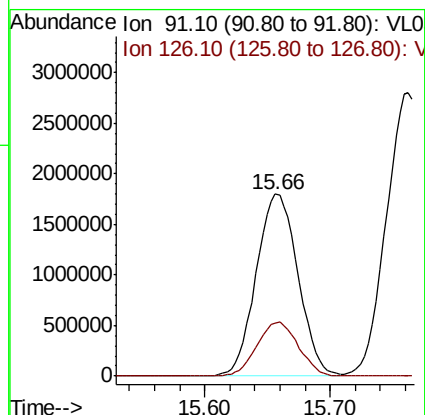
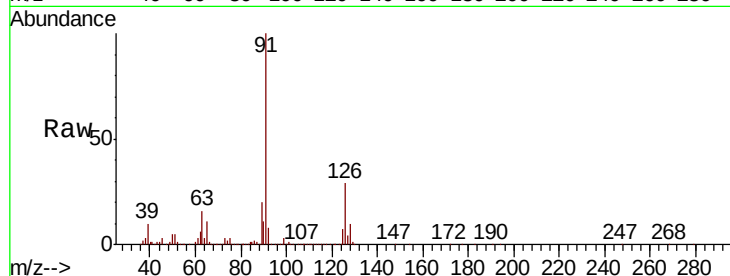
126 29.5 11.9 47.7

Manual Integrations

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#72

4-Ethyltoluene

Concen: 10.529 ppbv

RT: 16.04 min Scan# 4075

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion:105 Resp: 4395142

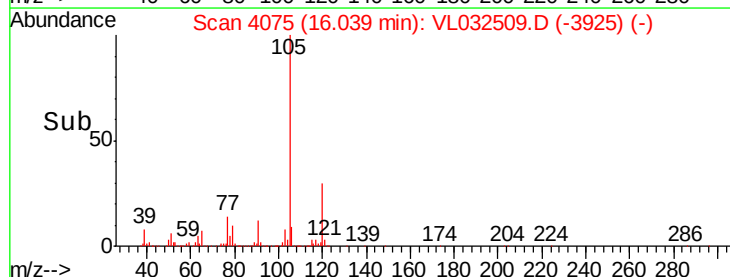
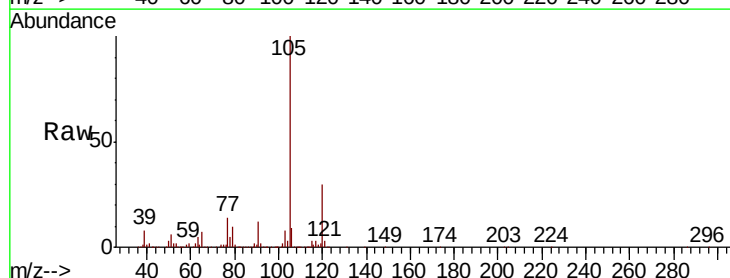
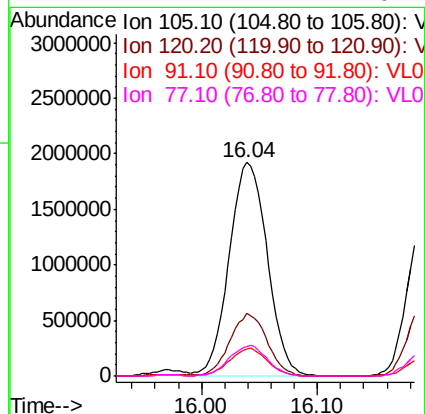
Ion Ratio Lower Upper

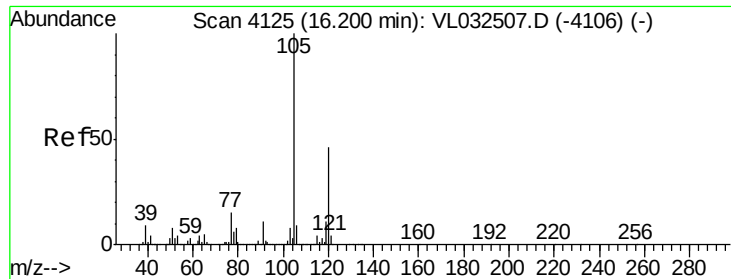
105 100

120 28.6 23.5 35.3

91 12.7 10.2 15.2

77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.905 ppbv

RT: 16.20 min Scan# 4124

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

VL0920ABS01

Tot Ion:105 Resp: 4142536

Ion Ratio Lower Upper

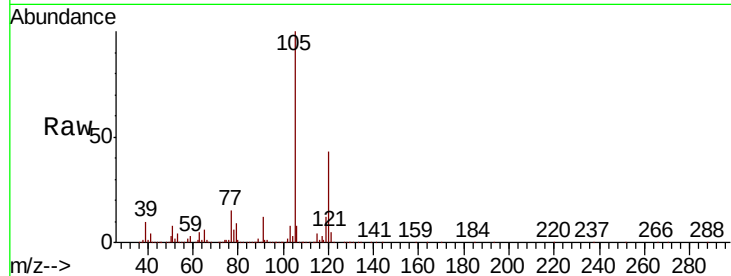
105 100

120 43.5 37.9 56.9

Manual Integrations
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9/24/2018 11:19:57 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.20

2000000

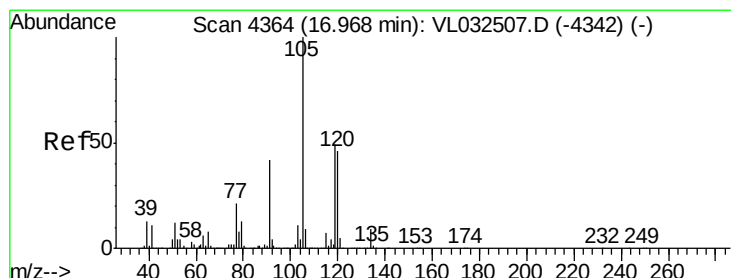
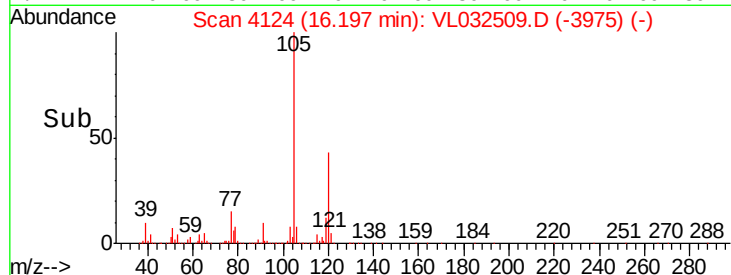
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.035 ppbv

RT: 16.97 min Scan# 4364

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion:105 Resp: 4131130

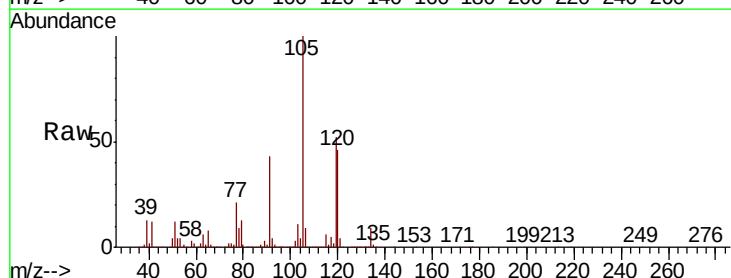
Ion Ratio Lower Upper

105 100

120 46.0 37.8 56.8

91 43.0 41.4 62.0

77 20.9 18.6 28.0



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

2500000

2000000

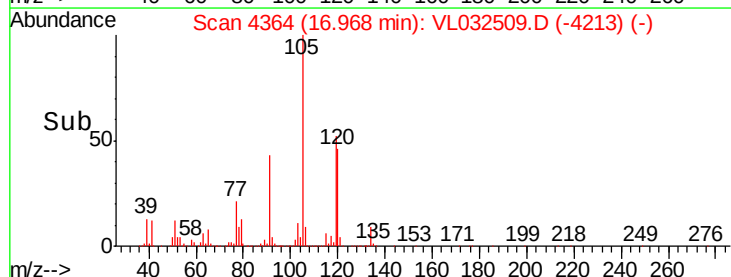
1500000

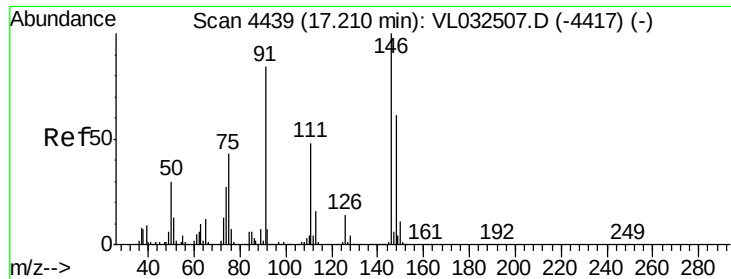
1000000

500000

0

Time-->





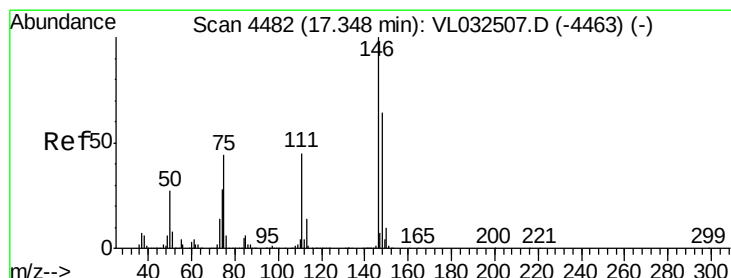
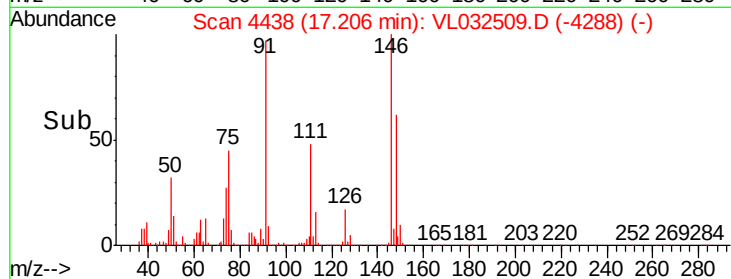
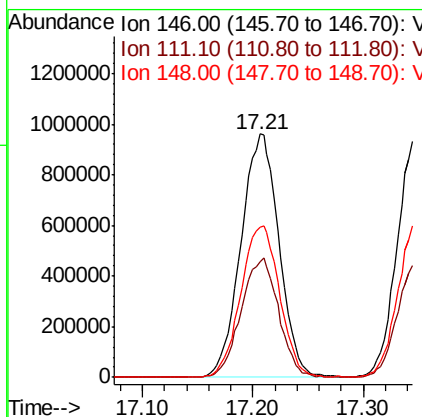
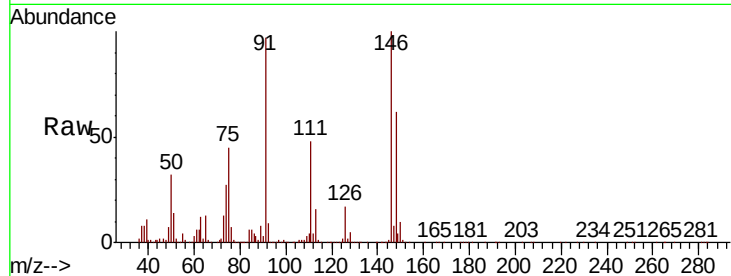
#75
 1,3-Dichlorobenzene
 Concen: 8.470 ppbv
 RT: 17.21 min Scan# 4438
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion:146 Resp: 2297824
 Ion Ratio Lower Upper
 146 100
 111 48.4 24.5 73.5
 148 63.5 32.0 96.2

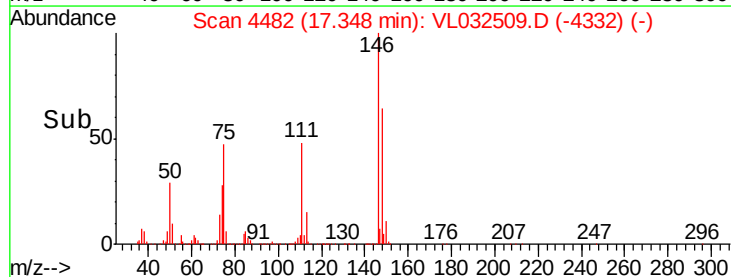
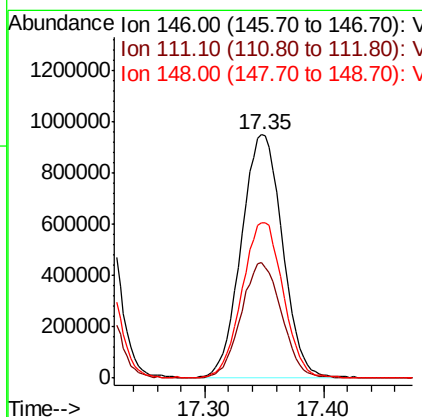
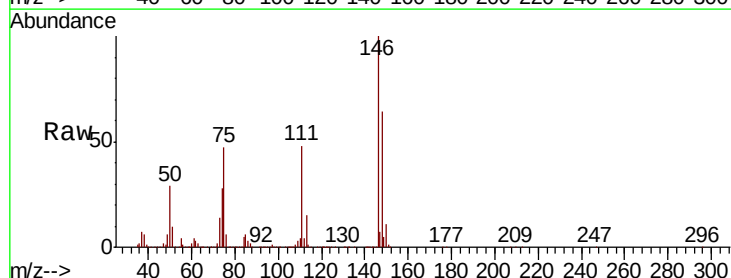
Manual Integrations
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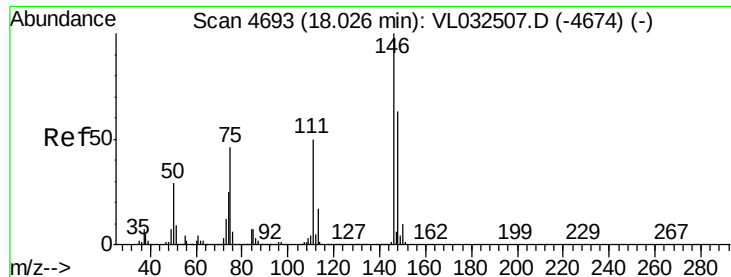
MMDadoda
 9/24/2018 11:19:57 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.964 ppbv
 RT: 17.35 min Scan# 4482
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion:146 Resp: 2256495
 Ion Ratio Lower Upper
 146 100
 111 47.0 23.4 70.2
 148 64.3 32.0 96.2





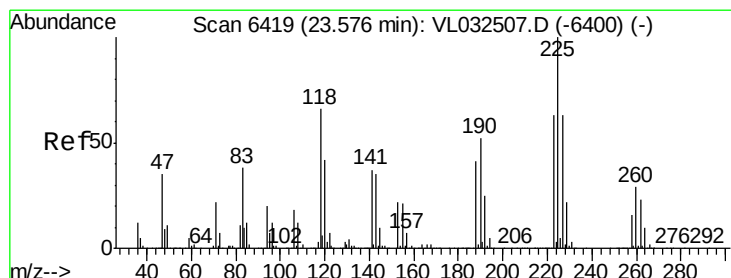
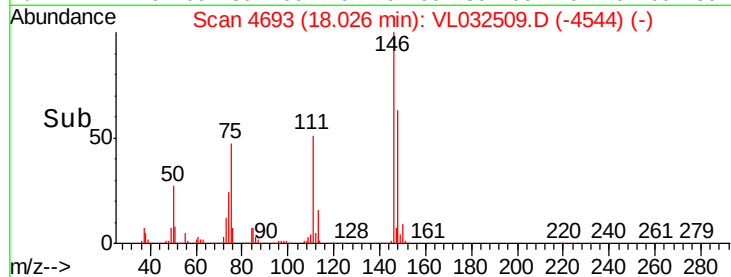
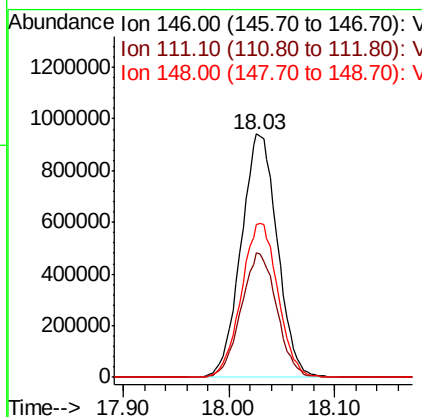
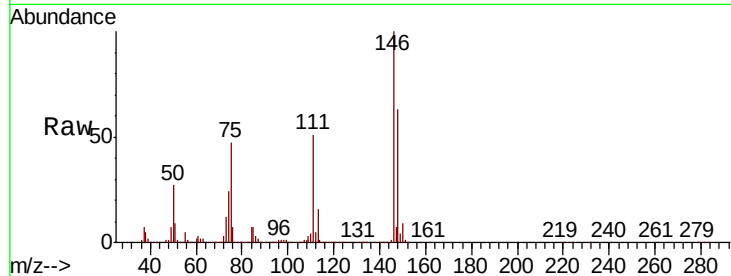
#77
 1,2-Dichlorobenzene
 Concen: 8.596 ppbv
 RT: 18.03 min Scan# 4693
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.3	24.9	74.8
148	63.9	32.0	96.0

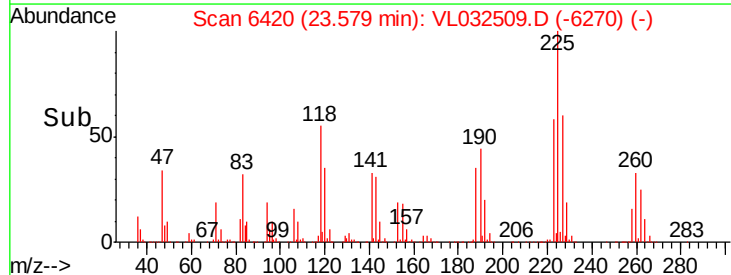
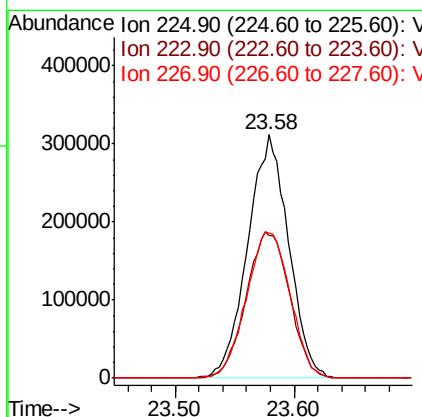
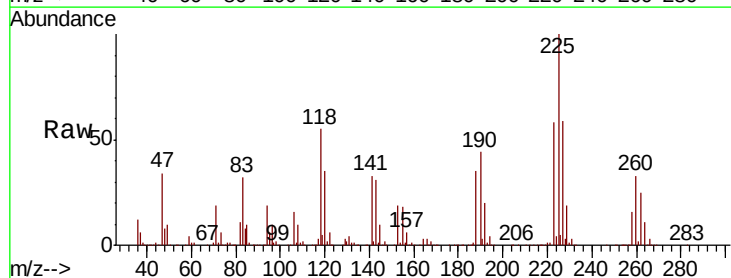
Manual Integrations
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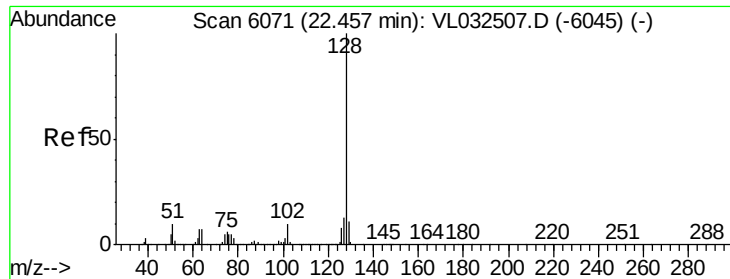
MMDadoda
 9/24/2018 11:19:57 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.566 ppbv
 RT: 23.58 min Scan# 6420
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.6	76.0
227	64.3	51.2	76.8





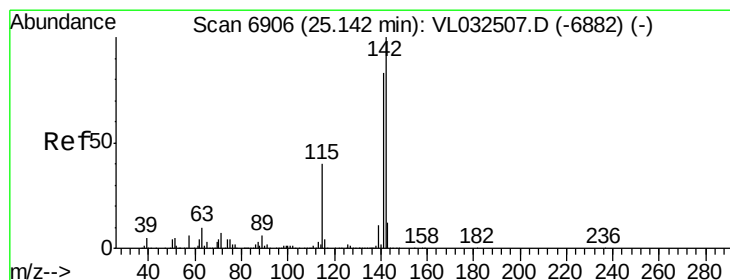
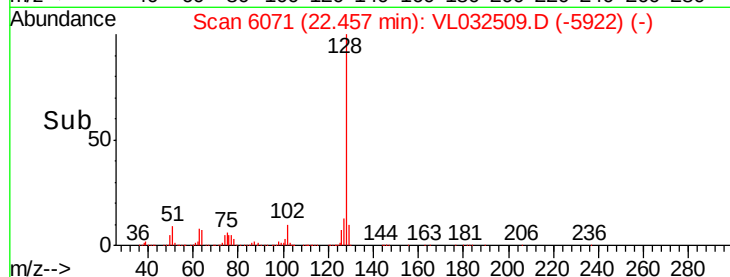
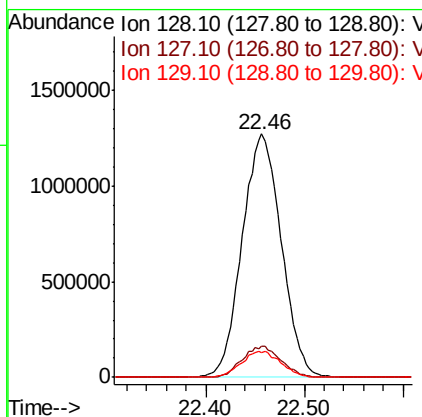
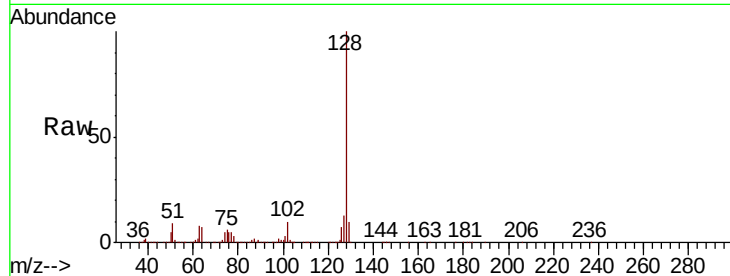
#79
Naphthalene
Concen: 9.380 ppbv
RT: 22.46 min Scan# 6071
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :
VL0920ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.4	8.5	12.7

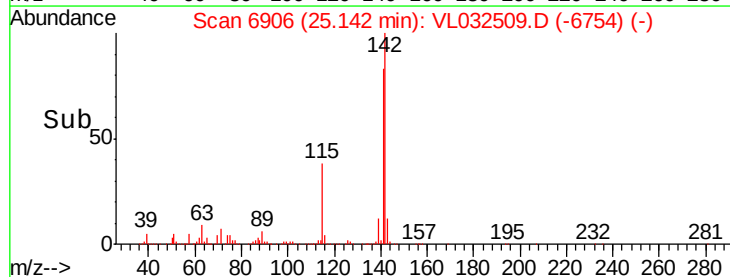
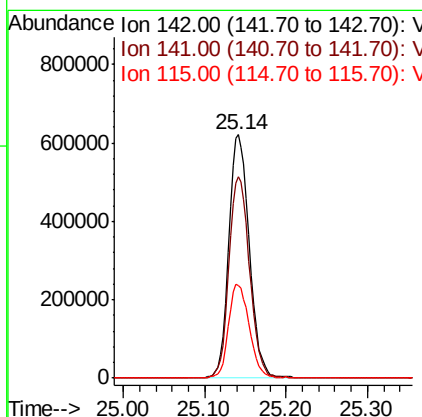
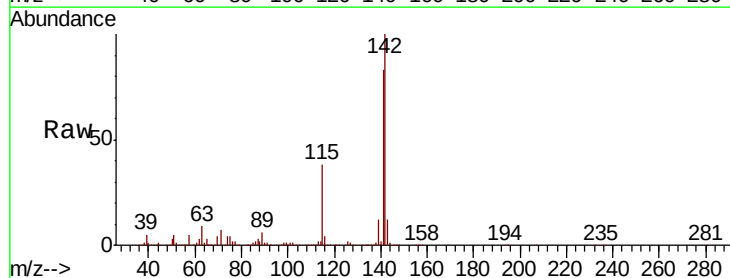
Manual Integrations
APPROVED

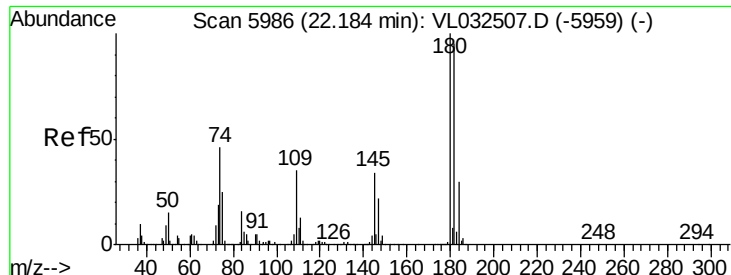
MMDadoda
9/24/2018 11:19:57 AM



#80
Naphthalene, 2-methyl-
Concen: 11.160 ppbv
RT: 25.14 min Scan# 6906
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	67.0	100.6
115	39.1	31.3	46.9





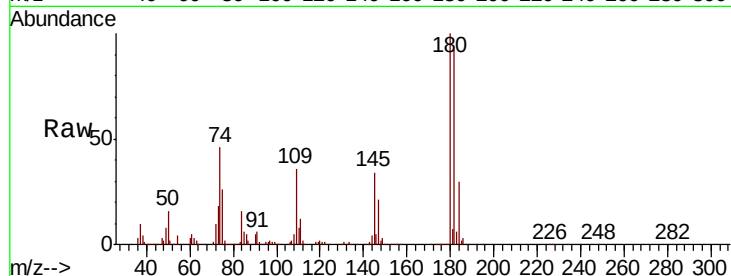
#81
 1,2,4-Trichlorobenzene
 Concen: 8.865 ppbv
 RT: 22.18 min Scan# 5985
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0920ABS01

Tot Ion:	180	Resp:	1660108
Ion Ratio	Lower	Upper	
180	100		
182	94.9	76.1	114.1
184	30.5	23.8	35.8

Manual Integrations
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MMDadoda
 9/24/2018 11:19:57 AM



Abundance Ion 180.00 (179.70 to 180.70): V
 800000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

