

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032926.D
 Acq On : 7 Dec 2018 7:29
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:08:28 AM

Quant Time: Dec 07 08:11:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 08:11:33 2018
 QLast Update : Fri Dec 07 07:35:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1169233	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3099274	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3183548	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2316640	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1861594	11.345	ppbv	98
3) Chlorodifluoromethane	3.02	51	1246108	13.858	ppbv	99
4) Chloromethane	3.17	50	667419	12.518	ppbv	98
5) Vinyl Chloride	3.29	62	700324	13.111	ppbv	98
6) Bromomethane	3.52	94	474732	14.343	ppbv	98
7) Chloroethane	3.60	64	273887	14.464	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1750578	13.166	ppbv	100
9) Propene	3.04	41	502112	14.184	ppbv	99
10) Heptane	8.25	43	2205779	17.280	ppbv	99
11) Trichlorofluoromethane	4.01	101	2041606	13.629	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1740285	13.614	ppbv	100
13) Ethanol	3.65	45	123799	9.355	ppbv	96
14) Bromoethene	3.79	108	625514	15.020	ppbv	99
15) Acetone	3.90	43	1289029	12.399	ppbv	100
16) 1,3-Butadiene	3.37	39	565357	15.279	ppbv	95
17) tert-Butyl alcohol	4.36	59	326104	12.304	ppbv #	83
18) 1,1-Dichloroethene	4.36	96	648698	12.817	ppbv	98
19) Isopropyl Alcohol	4.03	45	860718	13.358	ppbv	100
20) Methylene Chloride	4.41	84	561898	10.817	ppbv	98
21) Allyl Chloride	4.48	41	1286521	15.924	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	935453	15.426	ppbv	98
23) Vinyl Acetate	5.17	43	2880902	17.708	ppbv	100
24) 1,1-Dichloroethane	5.10	63	2124556	14.232	ppbv	99
25) Ethyl Acetate	5.78	43	3409785	14.236	ppbv	100
26) Hexane	5.79	57	1568709	14.174	ppbv	98
27) Carbon Disulfide	4.62	76	2052419	14.997	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	2637609	16.330	ppbv	100
29) Chloroform	5.86	83	2705977	13.596	ppbv	96
30) Cyclohexane	7.25	84	1491140	16.841	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1657757	16.929	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	3013855	14.518	ppbv	99
34) 2-Butanone	5.34	43	2056025	15.288	ppbv	98
35) Carbon Tetrachloride	7.14	117	3295193	13.309	ppbv	99
36) Benzene	7.01	78	3489771	15.388	ppbv	98
37) 1,2-Dichloroethane	6.42	62	2269331	14.530	ppbv	99
38) Trichloroethene	7.97	130	1444139	15.260	ppbv	98
39) 1,2-Dichloropropane	7.75	63	1318872	15.321	ppbv	95
40) 1,4-Dioxane	7.96	88	471030	14.741	ppbv #	97
41) Tetrahydrofuran	6.15	42	1368191	16.655	ppbv	99
42) Bromodichloromethane	7.93	83	3171776	14.689	ppbv	98
43) Methyl Methacrylate	8.15	69	1437330	17.608	ppbv	99

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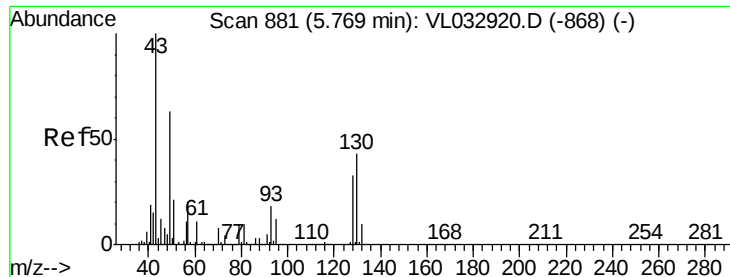
Manual Integrations
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Quant Time: Dec 07 08:11:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5931233	15.412	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	2020026	21.087	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	2436541	20.676	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1405232	14.710	ppbv	98
48) Dibromochloromethane	10.46	129	2836884	16.132	ppbv	100
49) Bromoform	13.22	173	2380859	16.551	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3653097	17.482	ppbv	100
51) 2-Hexanone	10.28	43	2589585	18.517	ppbv	99
52) Tetrachloroethene	11.39	164	1280216	15.515	ppbv	98
53) Toluene	9.96	91	4143673	17.773	ppbv	99
54) 1,2-Dibromoethane	10.77	107	2535546	17.662	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	1947898	13.438	ppbv #	73
57) Chlorobenzene	12.31	112	3165658	13.491	ppbv	98
58) Ethyl Benzene	12.88	91	5660341	17.143	ppbv	98
59) m/p-Xylene	13.14	91	9510800m	31.120	ppbv	
60) o-Xylene	13.86	91	4925197	16.064	ppbv	99
61) Styrene	13.70	104	3733878	19.020	ppbv	100
62) Isopropylbenzene	14.84	105	6639368	15.383	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	3381119	13.851	ppbv	99
64) n-propylbenzene	15.73	120	1720252	15.335	ppbv	96
65) tert-Butylbenzene	16.92	119	5842855	14.414	ppbv	99
66) Benzyl Chloride	17.17	91	3977742	18.732	ppbv	99
67) sec-Butylbenzene	17.47	105	8867798	14.944	ppbv	99
69) p-Isopropyltoluene	17.83	119	7622720	16.094	ppbv	100
70) n-Butylbenzene	18.72	91	6985792	16.015	ppbv	99
71) 2-Chlorotoluene	15.63	91	5268088	16.699	ppbv	100
72) 4-Ethyltoluene	16.01	105	5830627	17.315	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	5567835	16.830	ppbv	96
74) 1,2,4-Trimethylbenzene	16.94	105	5278021	13.521	ppbv	96
75) 1,3-Dichlorobenzene	17.18	146	3336425	14.758	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	3325766	16.035	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	3195296	15.231	ppbv	100
78) Hexachloro-1,3-Butadiene	23.56	225	1838027	16.119	ppbv	99
79) Naphthalene	22.42	128	4510216	19.301	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	1255361	27.856	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	2249035	17.805	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 49 Resp: 1169233

Ion Ratio Lower Upper

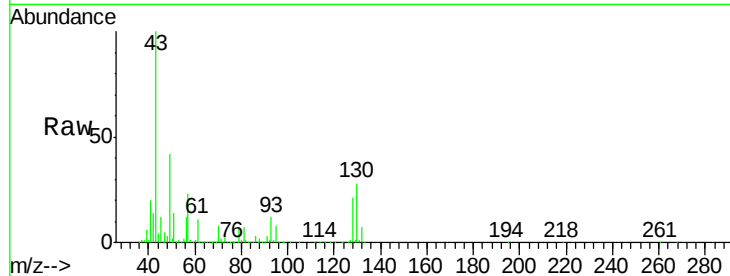
49 100

128 50.9 26.3 78.8

130 65.8 33.9 101.7

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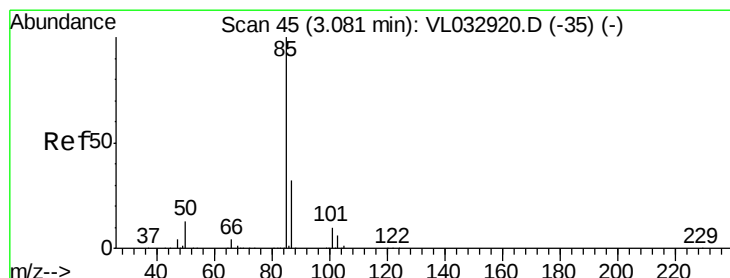
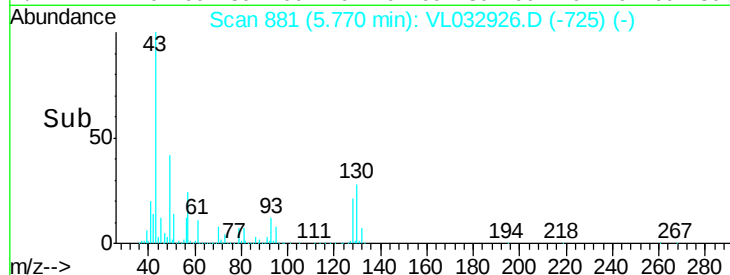
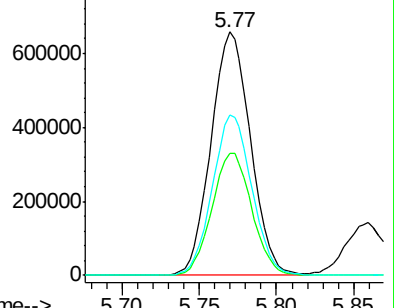
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 11.345 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032926.D

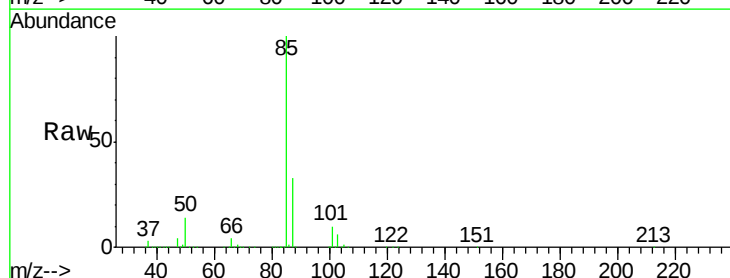
Acq: 7 Dec 2018 7:29

Tgt Ion: 85 Resp: 1861594

Ion Ratio Lower Upper

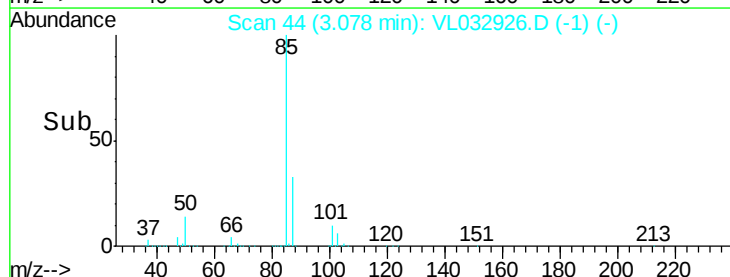
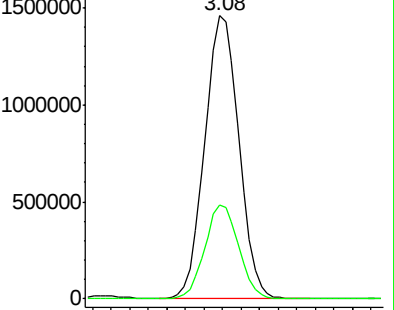
85 100

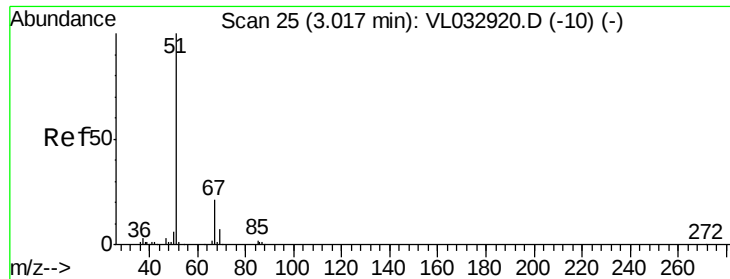
87 33.3 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.858 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Tgt Ion: 51 Resp: 1246108

Ion Ratio Lower Upper

51 100

67 20.6 16.8 25.2

Instrument :

MSVOA_L

ClientSampleId :

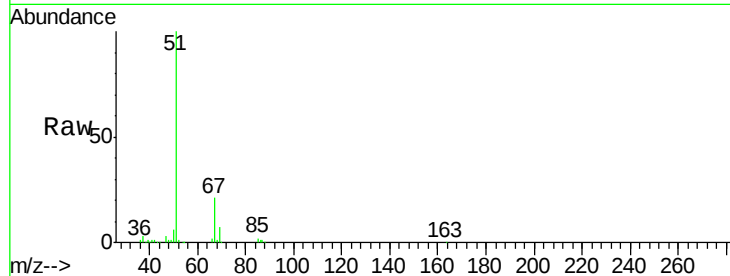
VSTDIC015

Manual Integrations

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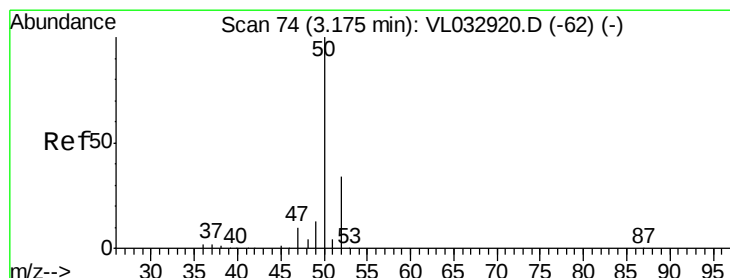
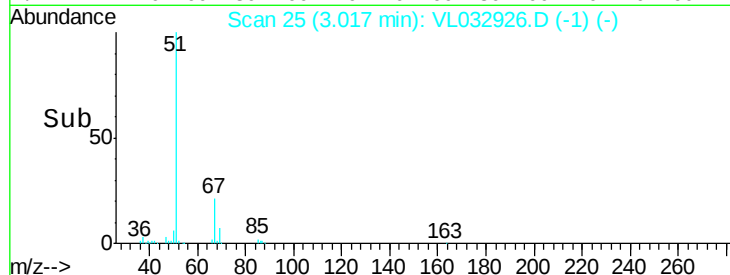
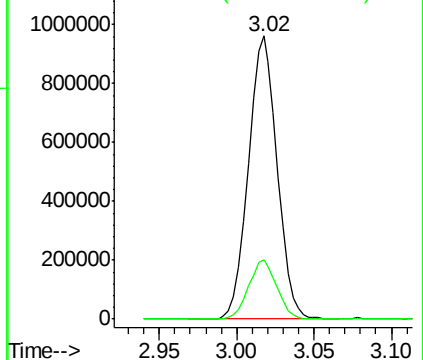
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 12.518 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032926.D

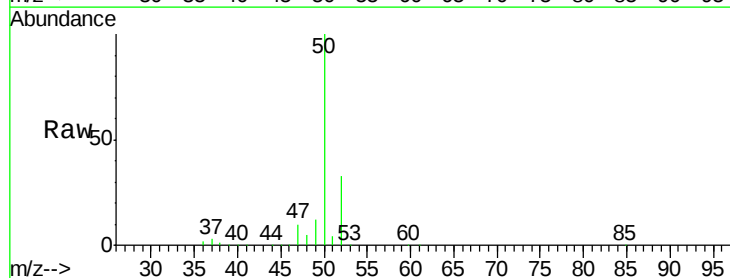
Acq: 7 Dec 2018 7:29

Tgt Ion: 50 Resp: 667419

Ion Ratio Lower Upper

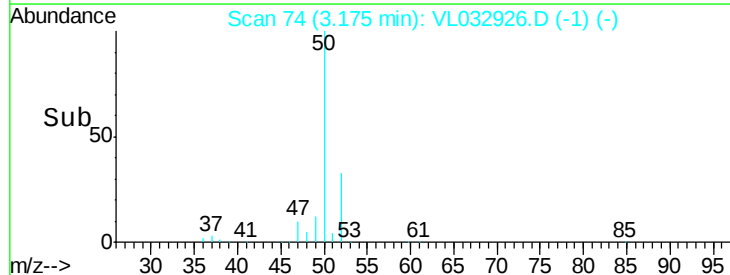
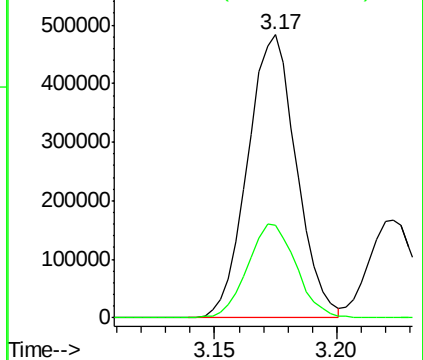
50 100

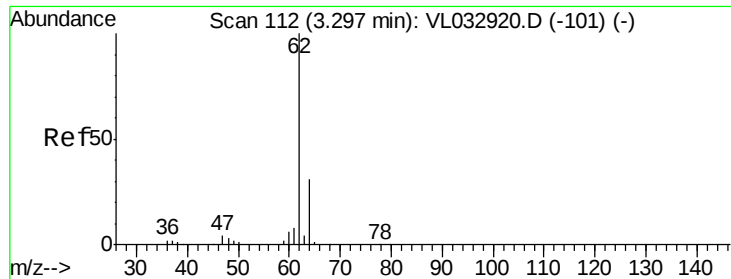
52 32.7 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.111 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 700324

Ion Ratio Lower Upper

62 100

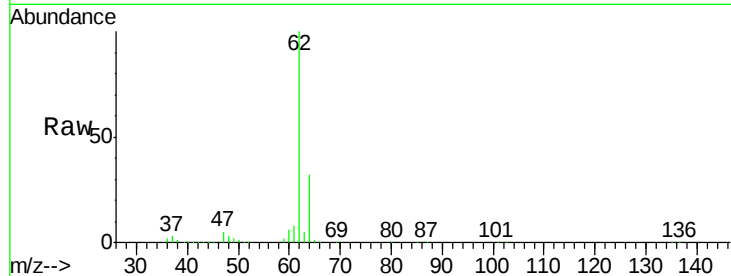
64 32.1 24.8 37.2

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

500000

400000

300000

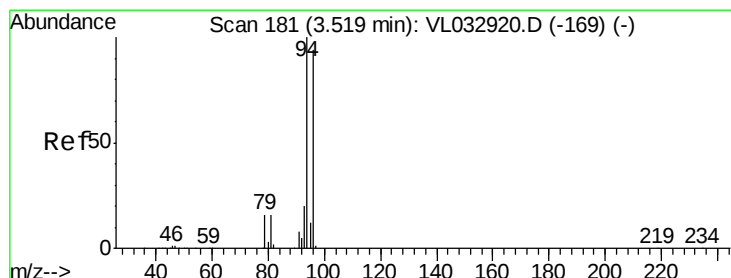
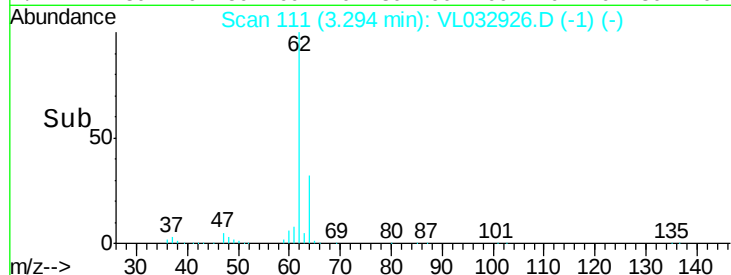
200000

100000

0

3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 14.343 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL032926.D

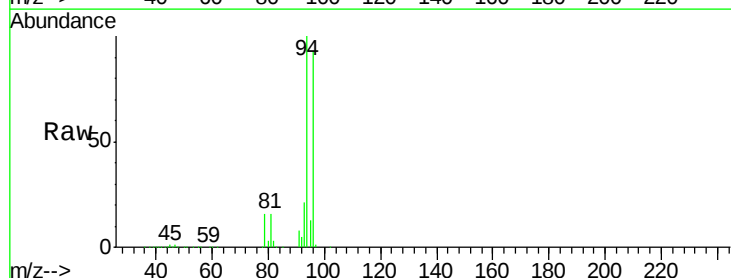
Acq: 7 Dec 2018 7:29

Tgt Ion: 94 Resp: 474732

Ion Ratio Lower Upper

94 100

96 92.8 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

300000

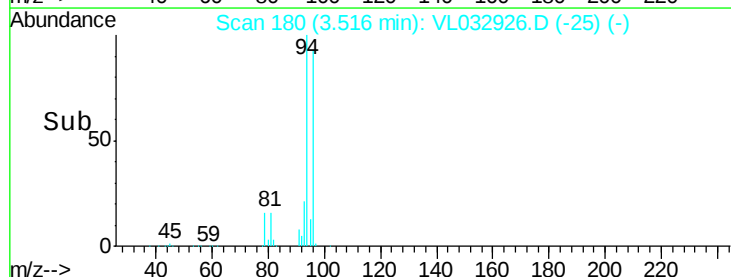
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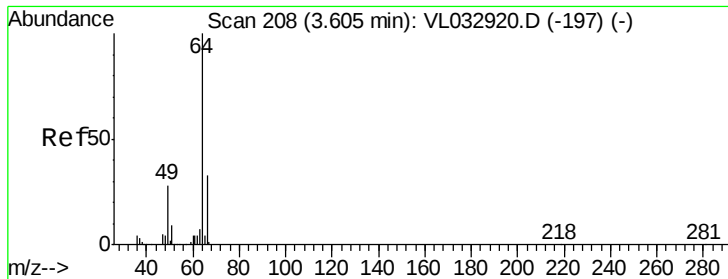
100000

0

3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 14.464 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 64 Resp: 273887

Ion Ratio Lower Upper

64 100

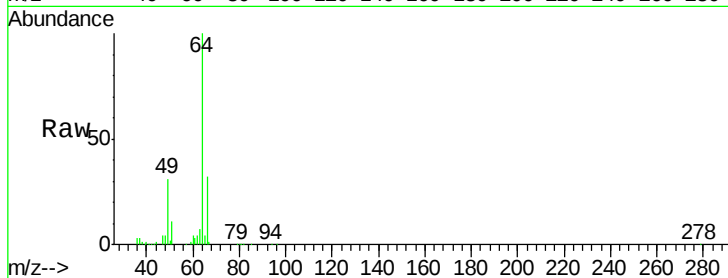
66 31.5 26.6 40.0

Manual Integrations

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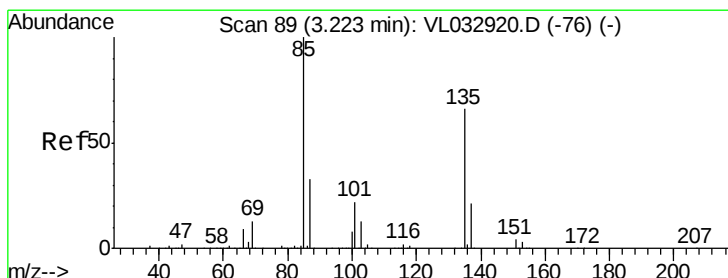
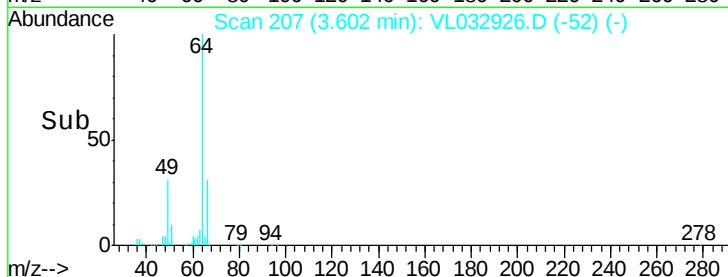
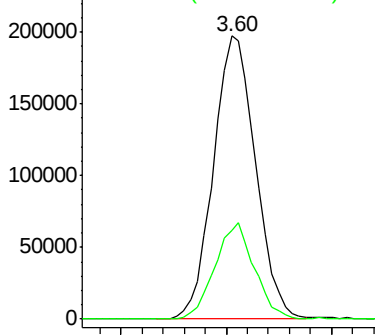
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 13.166 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032926.D

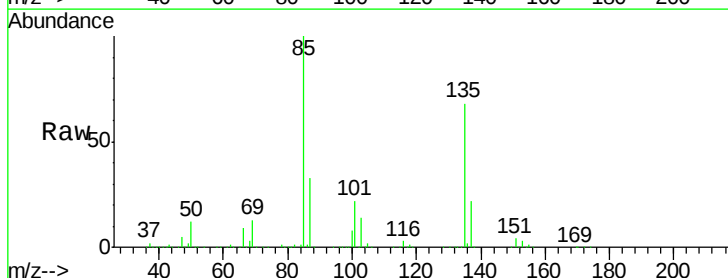
Acq: 7 Dec 2018 7:29

Tgt Ion: 85 Resp: 1750578

Ion Ratio Lower Upper

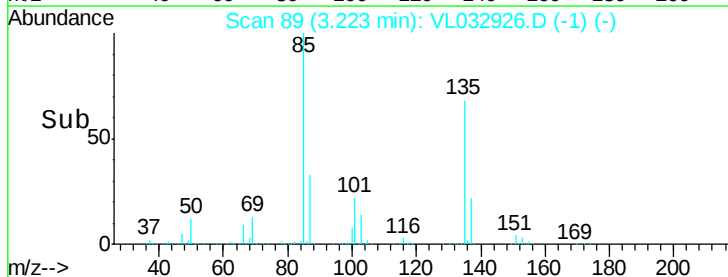
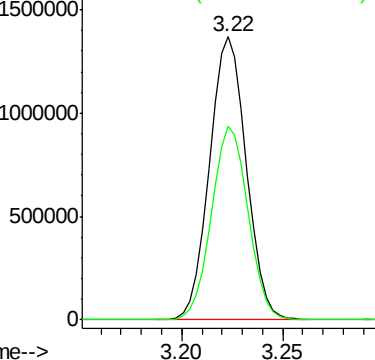
85 100

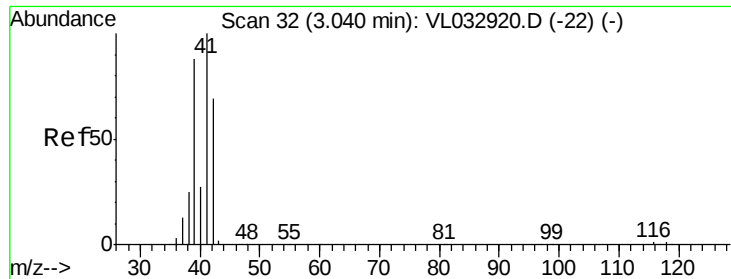
135 68.5 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 14.184 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 41 Resp: 502112

Ion Ratio Lower Upper

41 100

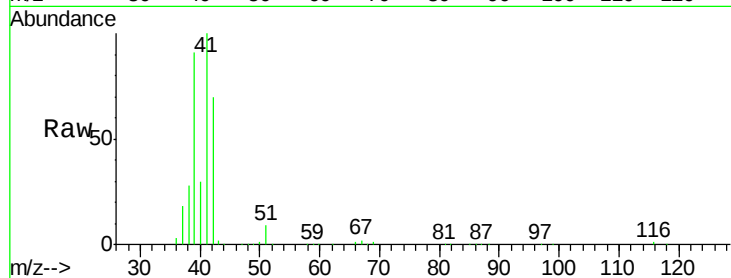
42 69.2 56.2 84.2

Manual Integrations

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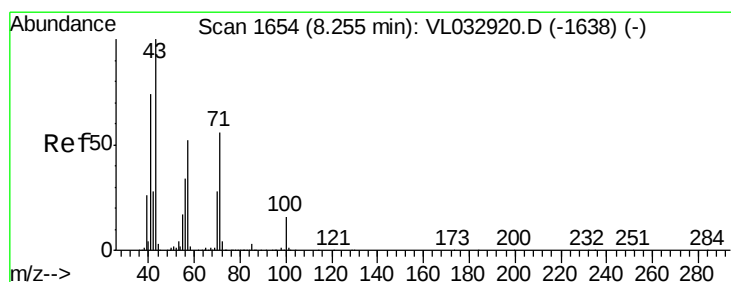
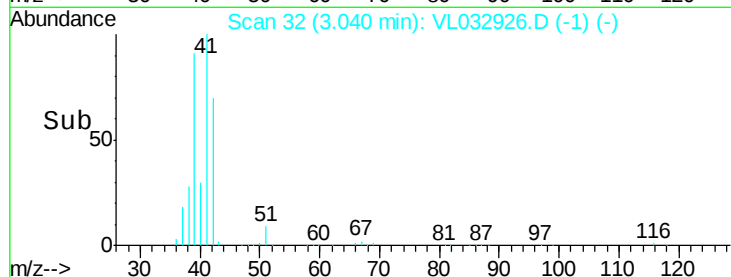
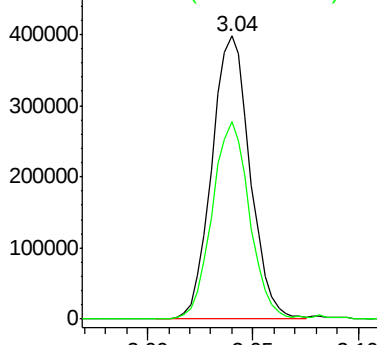
MMDadoda

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 17.280 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032926.D

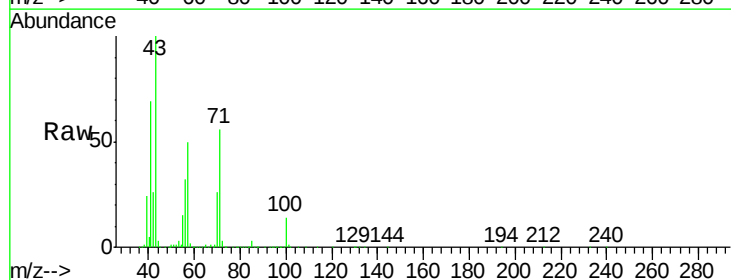
Acq: 7 Dec 2018 7:29

Tgt Ion: 43 Resp: 2205779

Ion Ratio Lower Upper

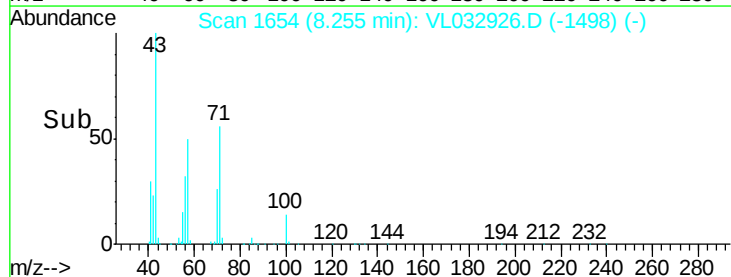
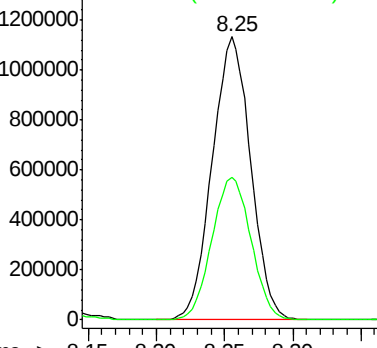
43 100

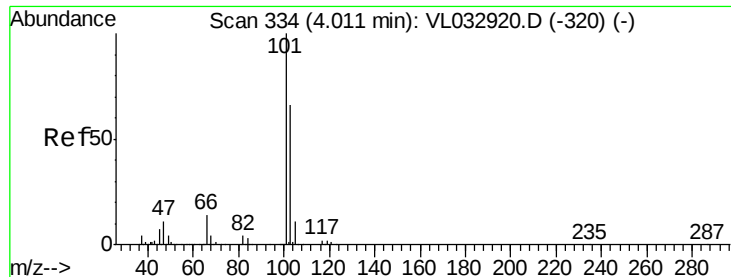
57 51.5 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 13.629 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:101 Resp: 2041606

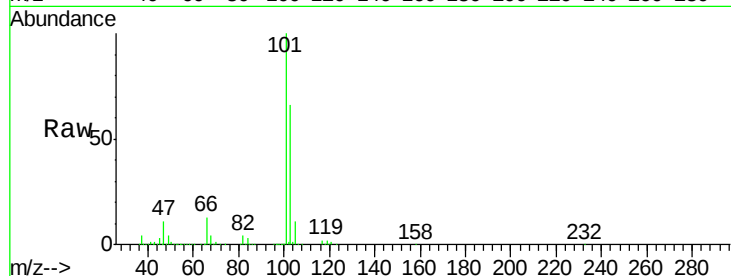
Ion Ratio Lower Upper

101 100

103 66.0 52.7 79.1

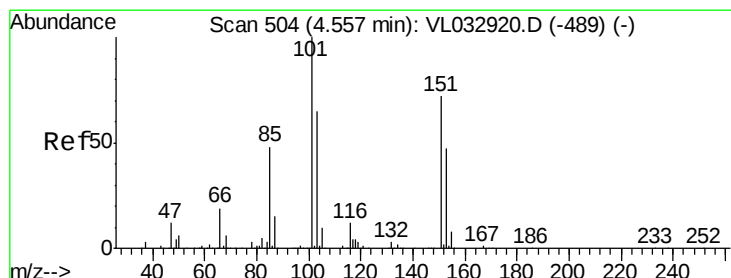
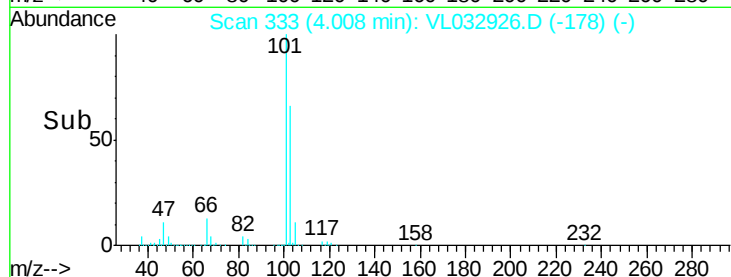
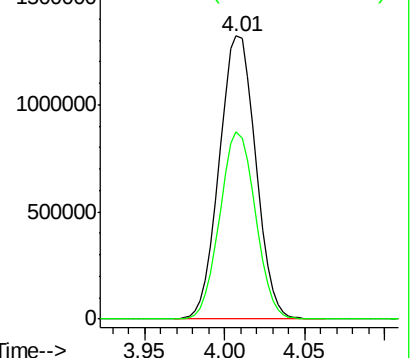
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 13.614 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL032926.D

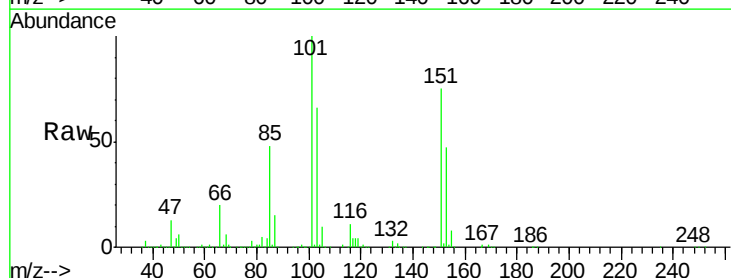
Acq: 7 Dec 2018 7:29

Tgt Ion:101 Resp: 1740285

Ion Ratio Lower Upper

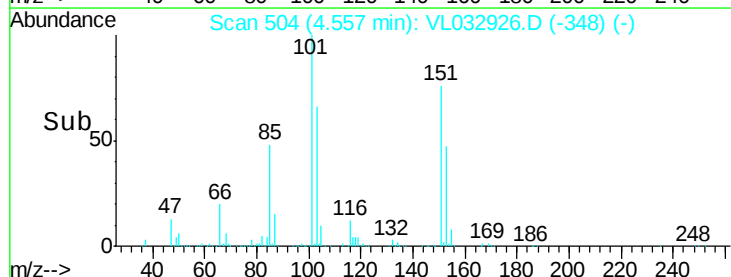
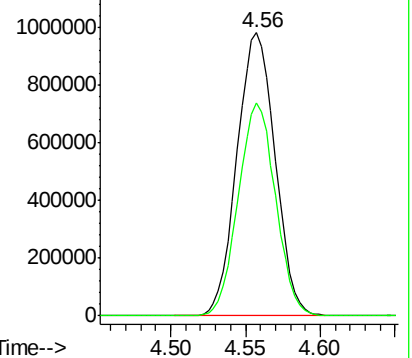
101 100

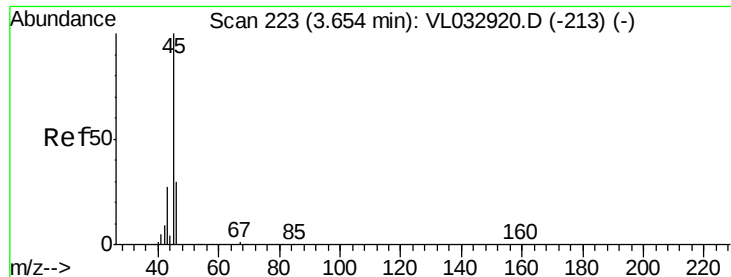
151 73.9 59.3 88.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





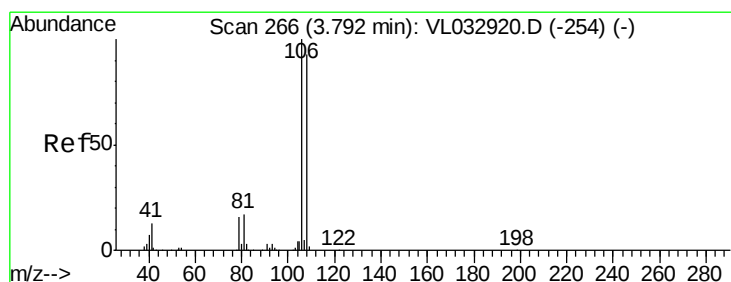
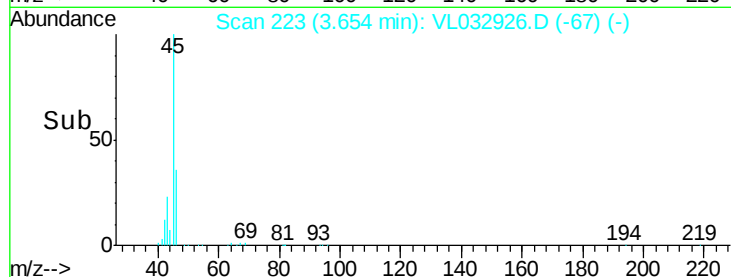
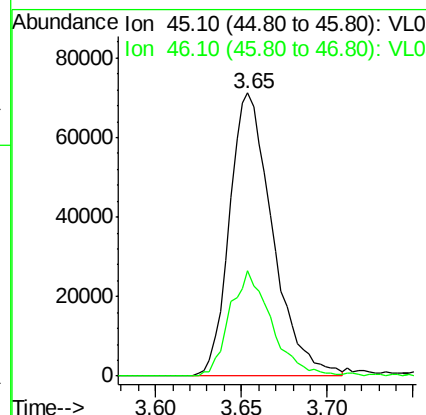
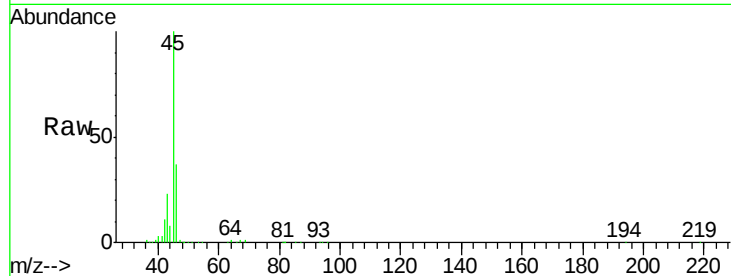
#13
Ethanol
Concen: 9.355 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 45 Resp: 123799
Ion Ratio Lower Upper
45 100
46 36.8 13.8 55.4

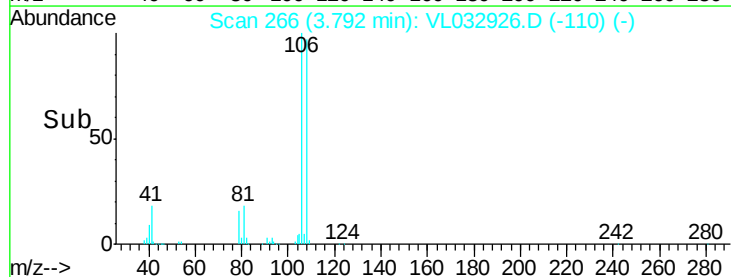
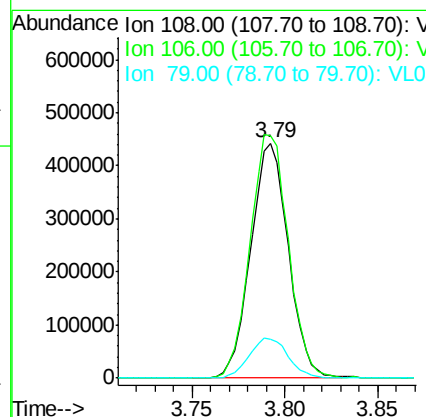
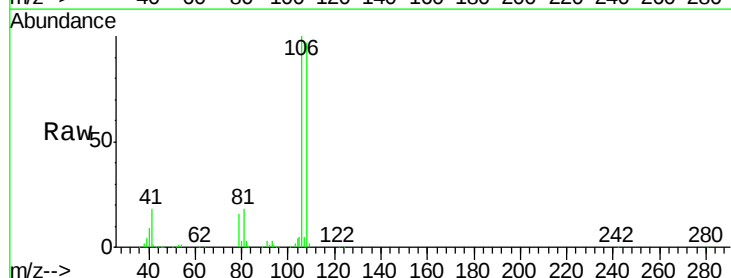
Manual Integrations
APPROVED

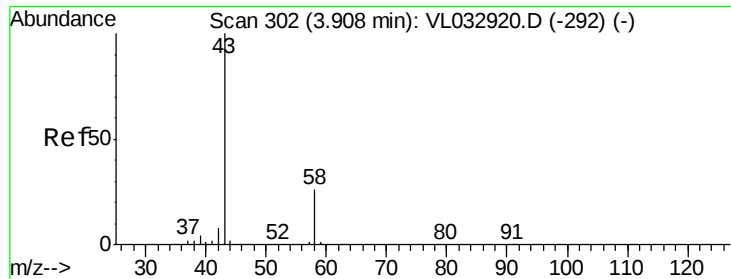
MMDadoda
12/11/2018 10:08:28 AM



#14
Bromoethene
Concen: 15.020 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 108 Resp: 625514
Ion Ratio Lower Upper
108 100
106 106.2 85.4 128.2
79 17.7 14.6 21.8





#15

Acetone

Concen: 12.399 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 1289029

Ion Ratio Lower Upper

43 100

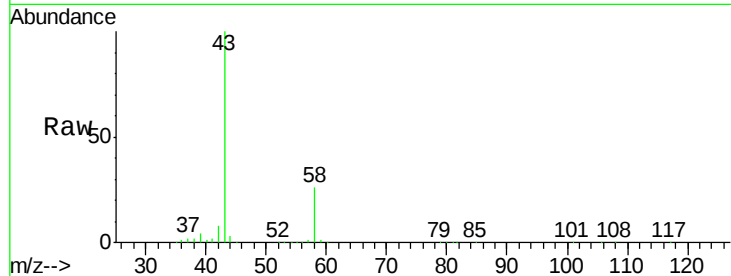
58 26.0 20.6 30.8

Manual Integrations

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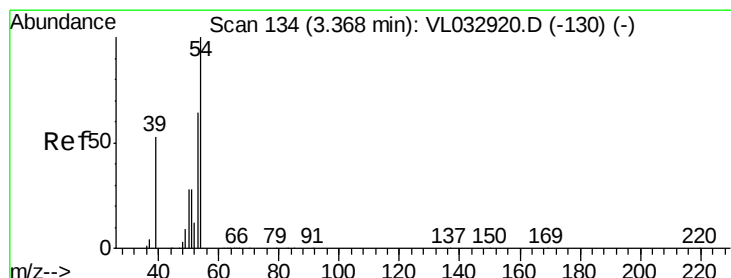
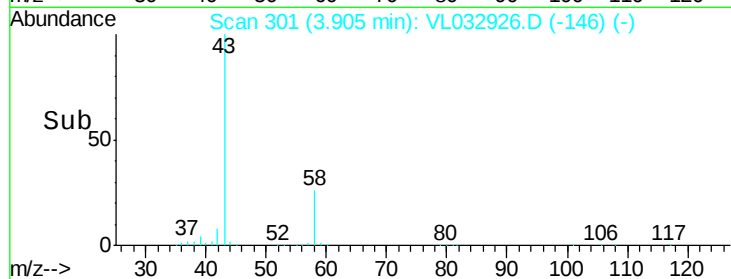
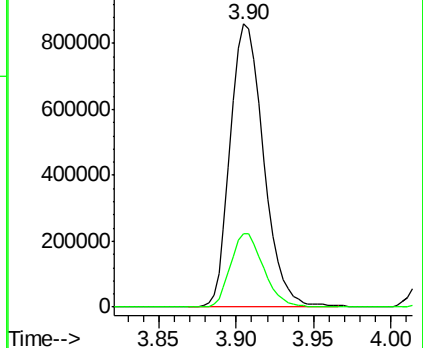
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 15.279 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL032926.D

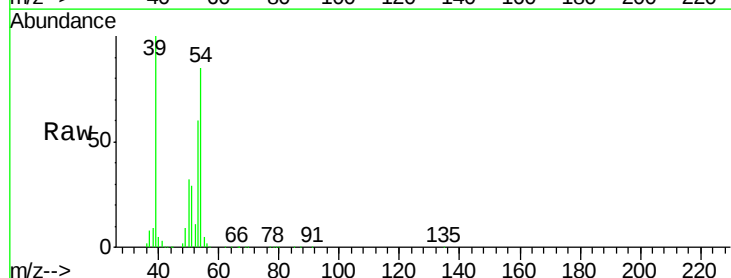
Acq: 7 Dec 2018 7:29

Tgt Ion: 39 Resp: 565357

Ion Ratio Lower Upper

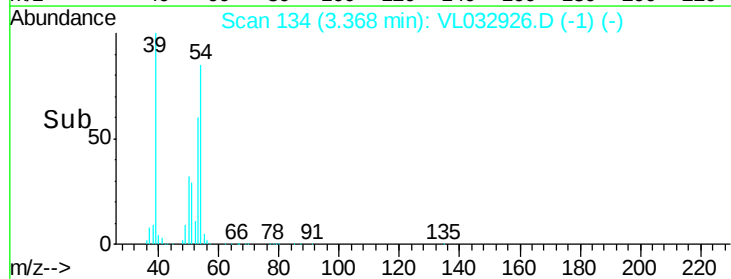
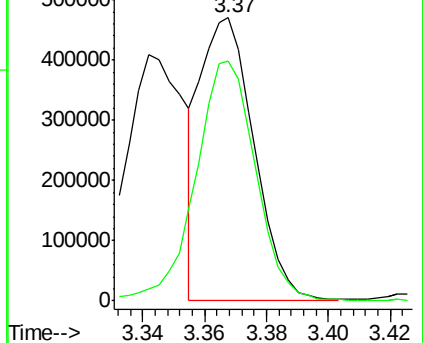
39 100

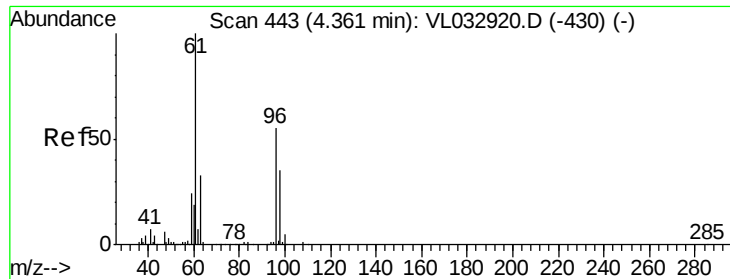
54 95.5 72.7 109.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

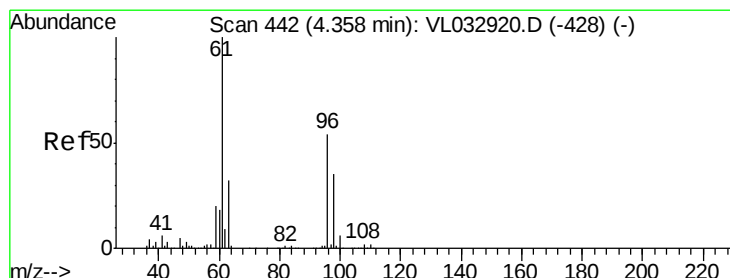
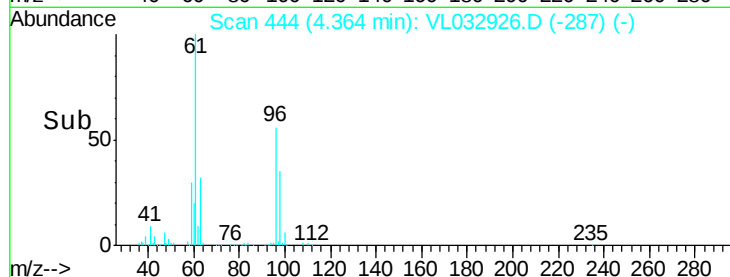
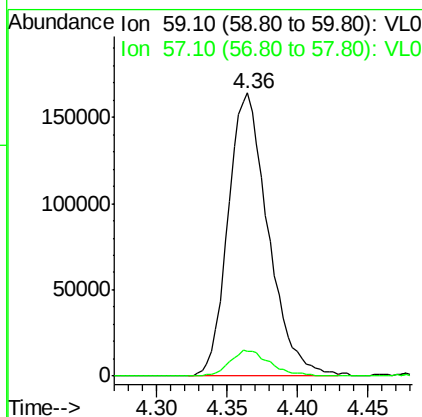
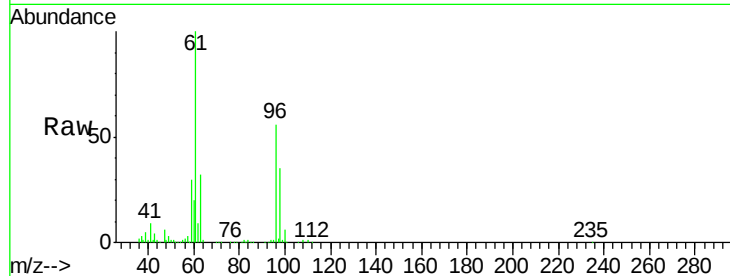
tert-Butyl alcohol
Concen: 12.304 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 326104
Ion Ratio Lower Upper
59 100
57 9.3 0.6 1.0#

Manual Integrations
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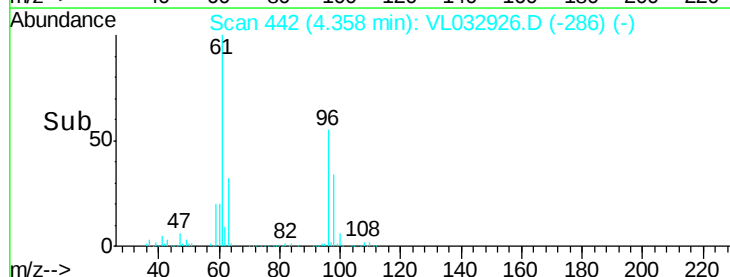
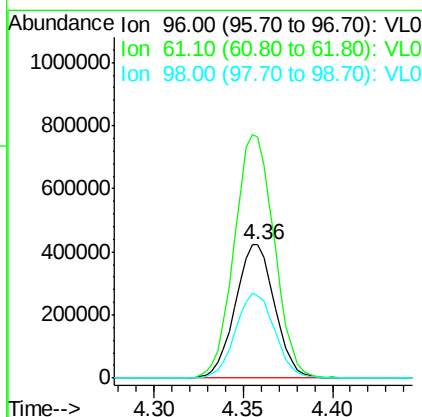
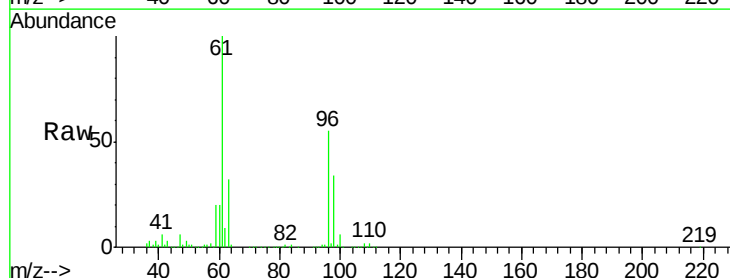
MMDadoda
12/11/2018 10:08:28 AM

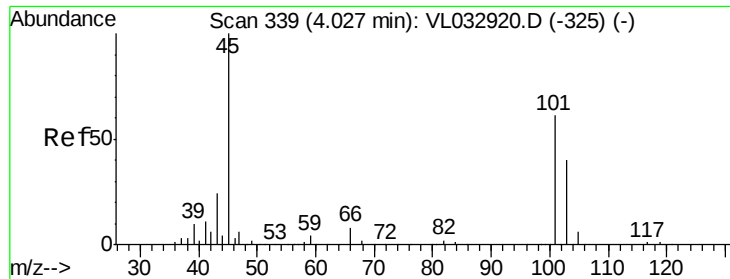


#18

1,1-Dichloroethene
Concen: 12.817 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 96 Resp: 648698
Ion Ratio Lower Upper
96 100
61 180.7 147.0 220.4
98 61.3 50.7 76.1





#19

Isopropyl Alcohol

Concen: 13.358 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Tgt Ion: 45 Resp: 860718

Ion Ratio Lower Upper

45 100

58 1.8 1.4 2.2

Instrument :

MSVOA_L

ClientSampleId :

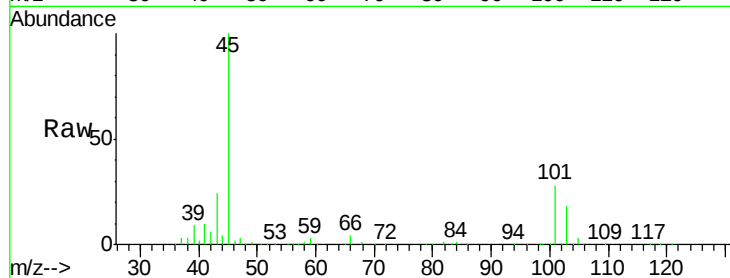
VSTDIC015

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

500000

400000

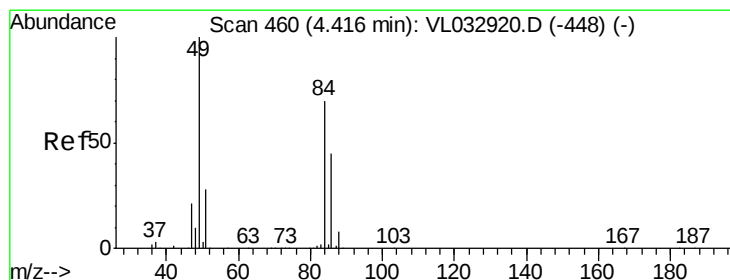
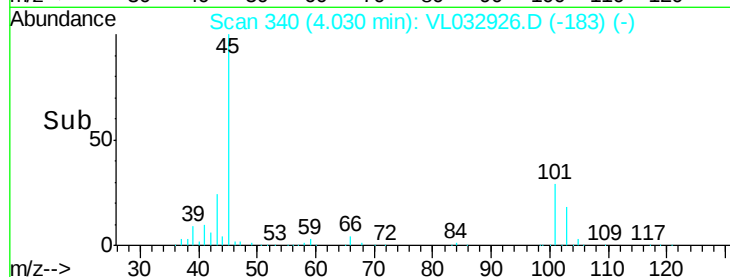
300000

200000

100000

0

Time--> 3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 10.817 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Tgt Ion: 84 Resp: 561898

Ion Ratio Lower Upper

84 100

49 142.6 113.8 170.8

51 44.0 31.8 47.8

86 61.1 50.8 76.2

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

800000

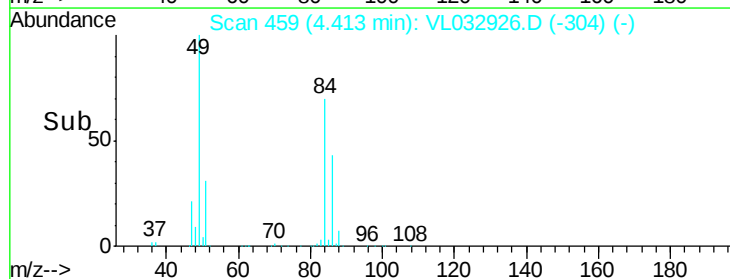
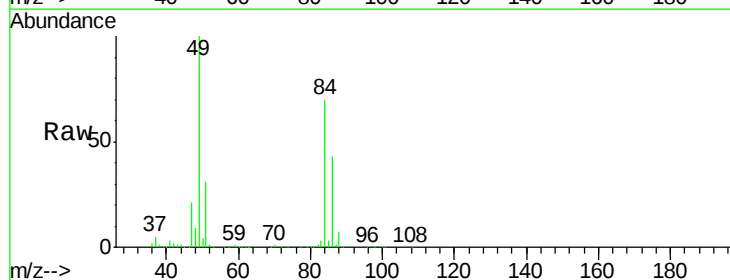
600000

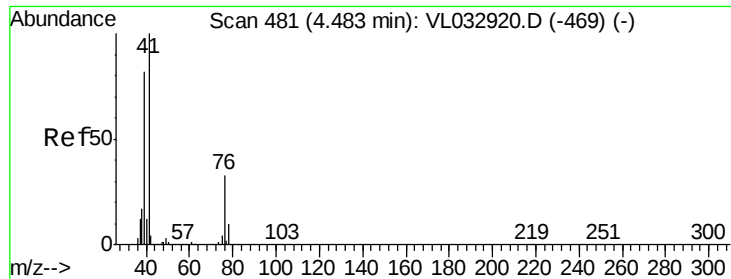
400000

200000

0

Time--> 4.35 4.40 4.45





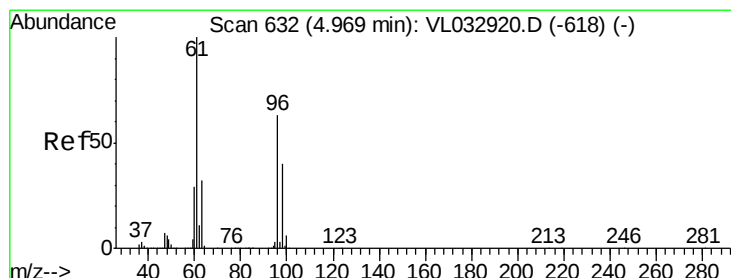
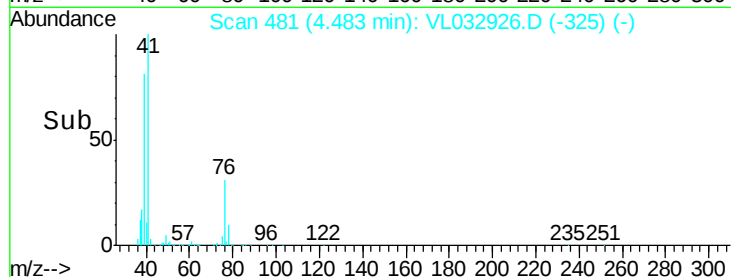
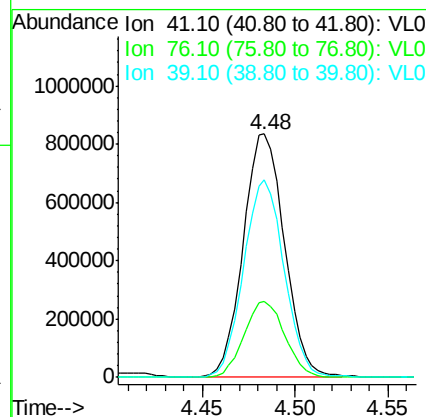
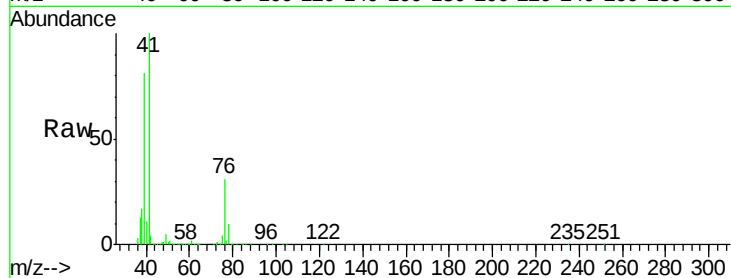
#21
 Allyl Chloride
 Concen: 15.924 ppbv
 RT: 4.48 min Scan# 481
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 41 Resp: 1286521
 Ion Ratio Lower Upper
 41 100
 76 31.1 25.2 37.8
 39 80.4 65.2 97.8

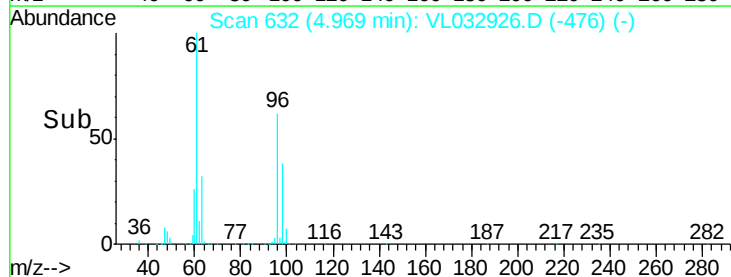
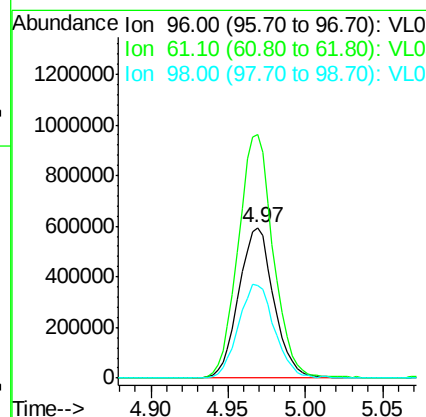
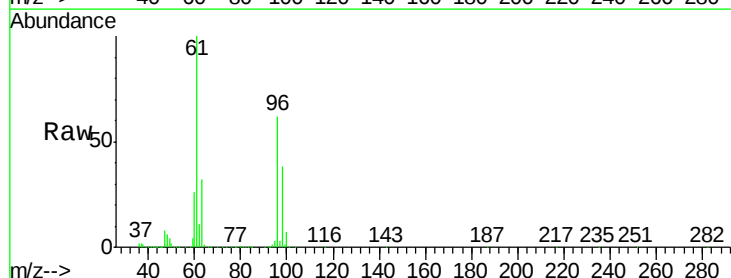
Manual Integrations
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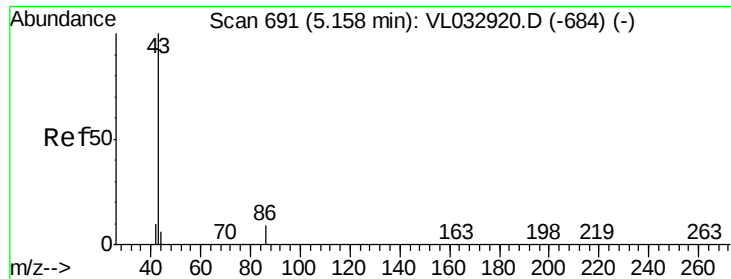
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#22
 trans-1,2-Dichloroethene
 Concen: 15.426 ppbv
 RT: 4.97 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion: 96 Resp: 935453
 Ion Ratio Lower Upper
 96 100
 61 161.6 127.1 190.7
 98 61.5 51.3 76.9





#23
 Vinyl Acetate
 Concen: 17.708 ppbv
 RT: 5.17 min Scan# 693
 Delta R.T. 0.01 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

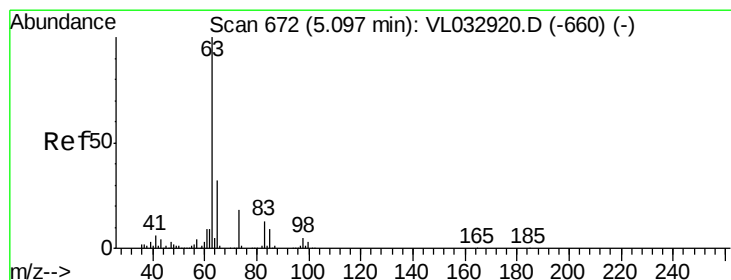
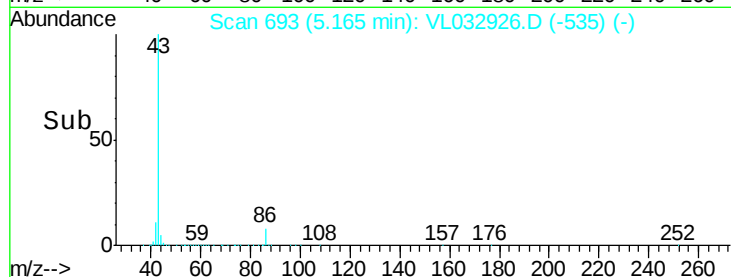
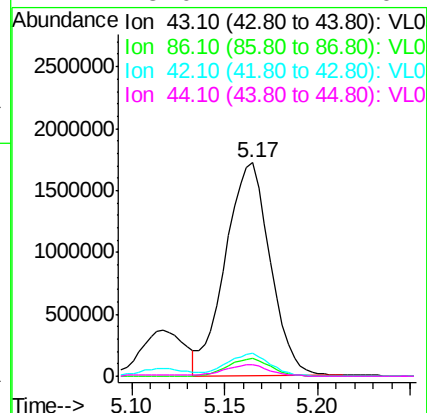
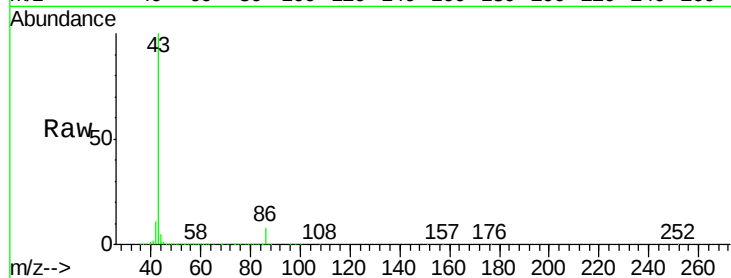
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 2880902

Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.6	9.8
42	10.4	8.3	12.5
44	5.0	4.2	6.4

Manual Integrations
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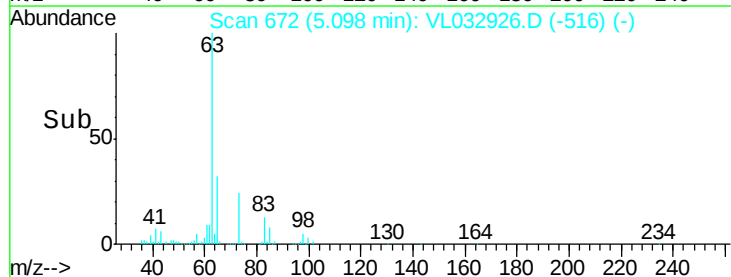
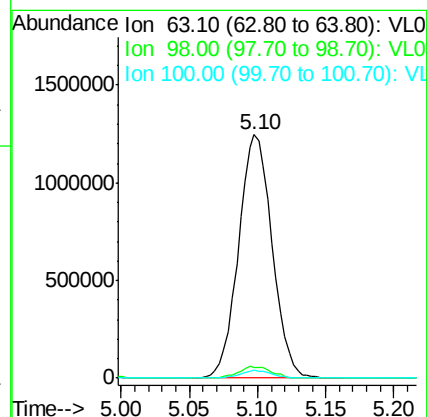
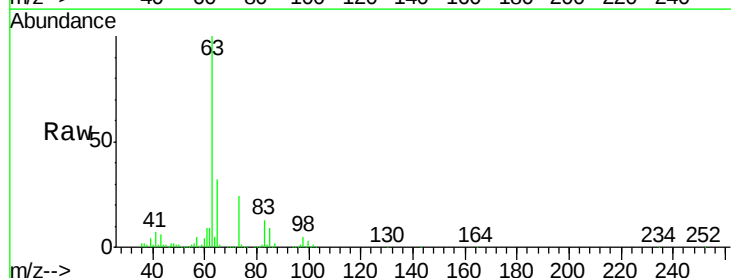
MMDadoda
 12/11/2018 10:08:28 AM

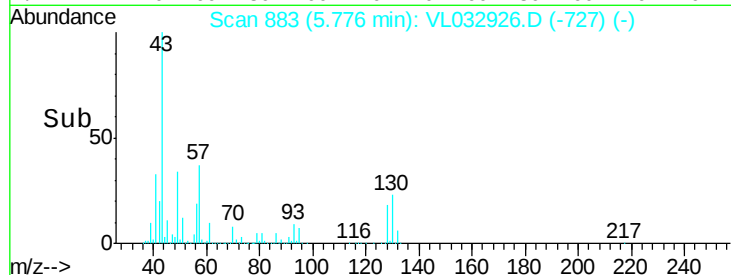
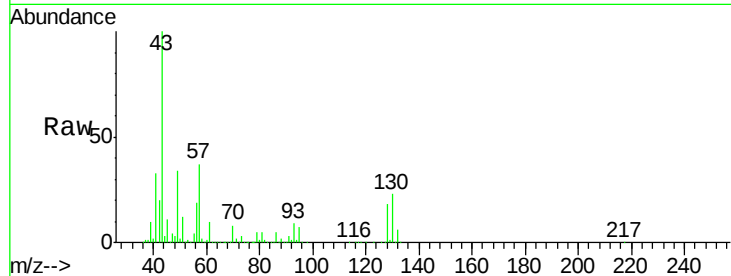
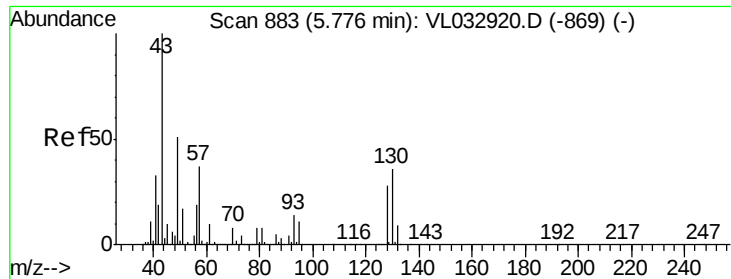


#24
 1,1-Dichloroethane
 Concen: 14.232 ppbv
 RT: 5.10 min Scan# 672
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion: 63 Resp: 2124556

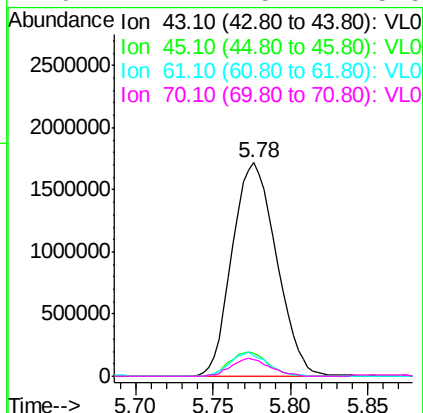
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.5	7.5
100	3.1	1.4	4.2





#25
Ethyl Acetate
Concen: 14.236 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

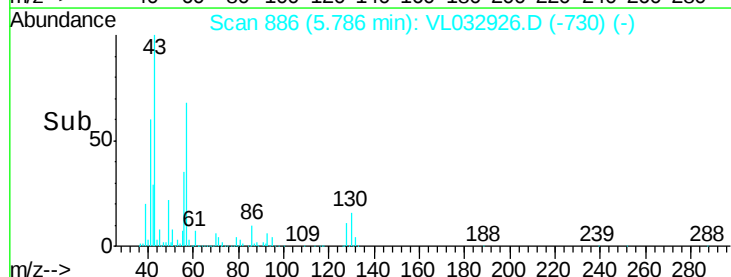
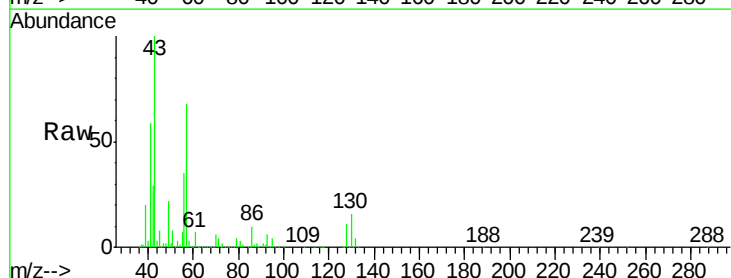
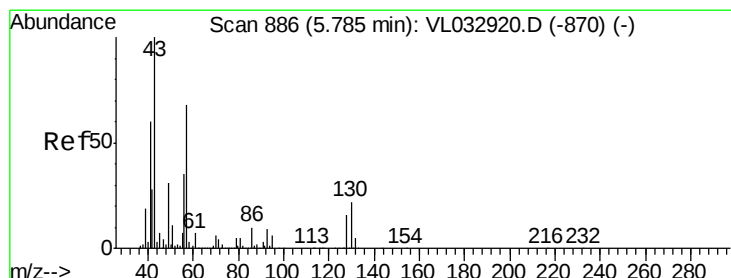
Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	9.3	7.4	11.2
70	7.2	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

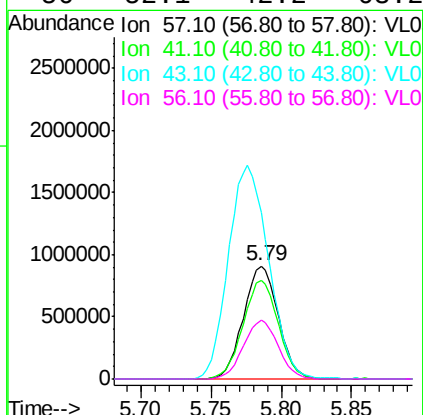
Manual Integrations
APPROVED

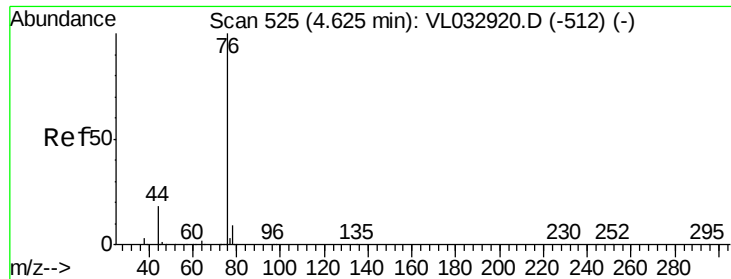
MMDadoda
12/11/2018 10:08:28 AM



#26
Hexane
Concen: 14.174 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.0	72.2	108.2
43	219.4	171.9	257.9
56	52.1	42.2	63.2





#27

Carbon Disulfide

Concen: 14.997 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 76 Resp: 2052419

Ion Ratio Lower Upper

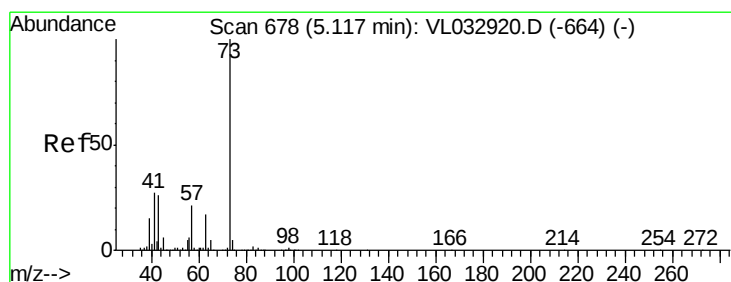
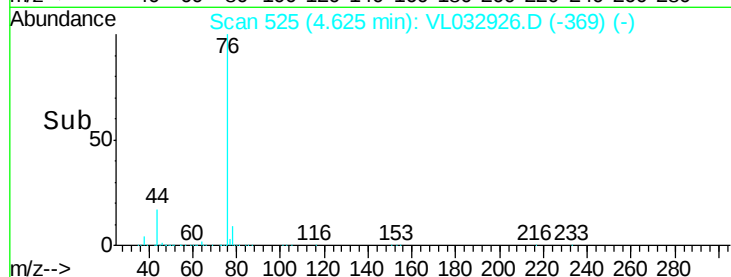
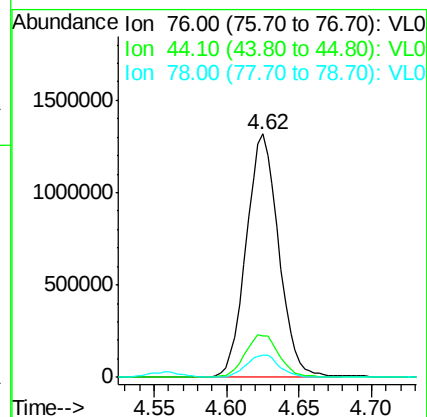
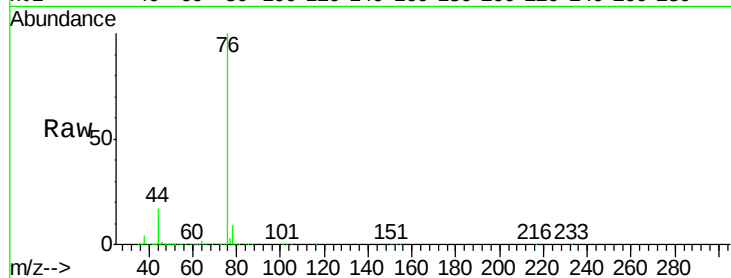
76 100

44 18.3 14.7 22.1

78 9.4 7.4 11.2

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#28

Methyl tert-Butyl Ether

Concen: 16.330 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL032926.D

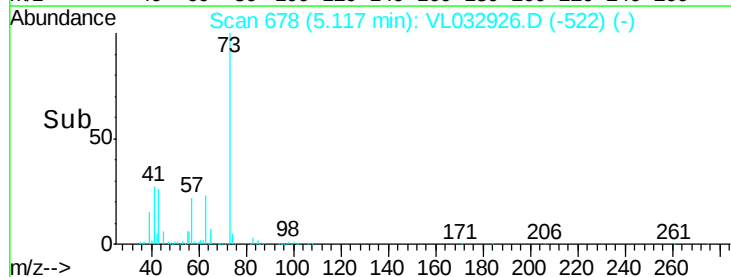
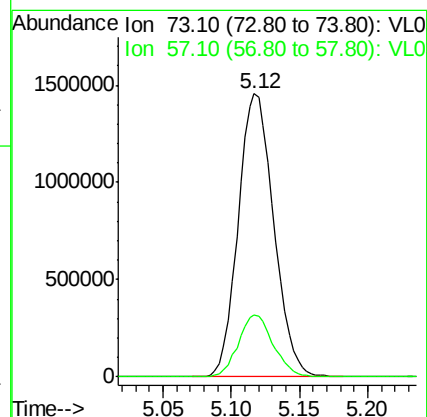
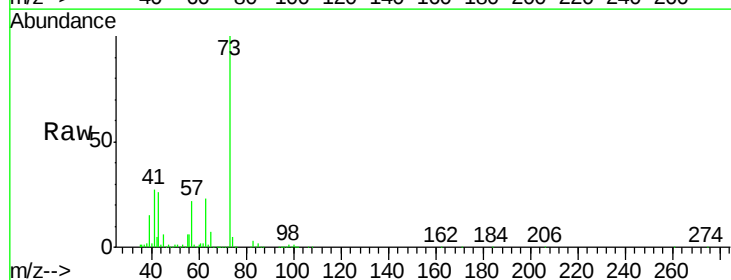
Acq: 7 Dec 2018 7:29

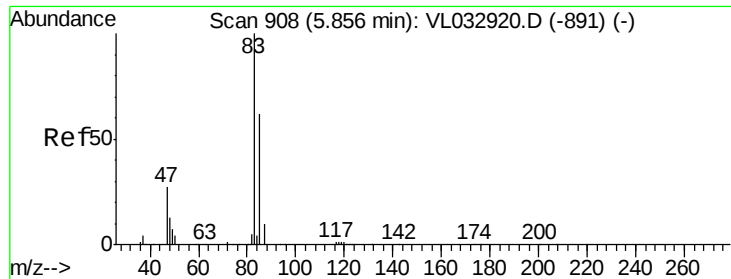
Tgt Ion: 73 Resp: 2637609

Ion Ratio Lower Upper

73 100

57 21.6 17.4 26.0





#29

Chloroform

Concen: 13.596 ppbv

RT: 5.86 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 2705977

Ion Ratio Lower Upper

83 100

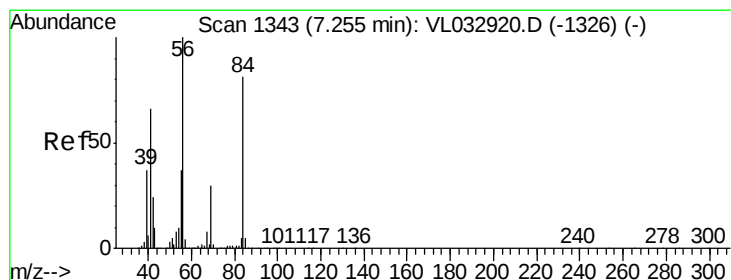
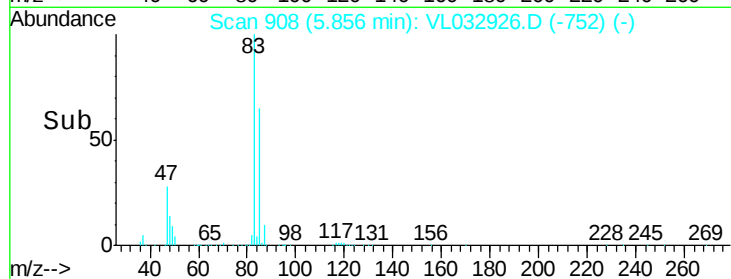
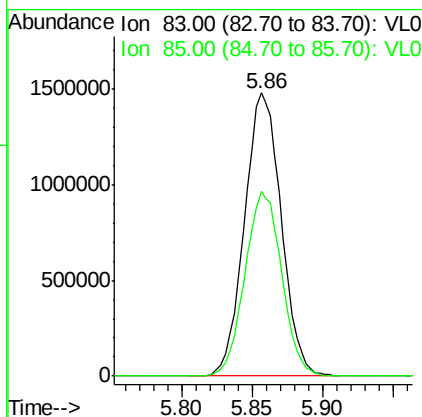
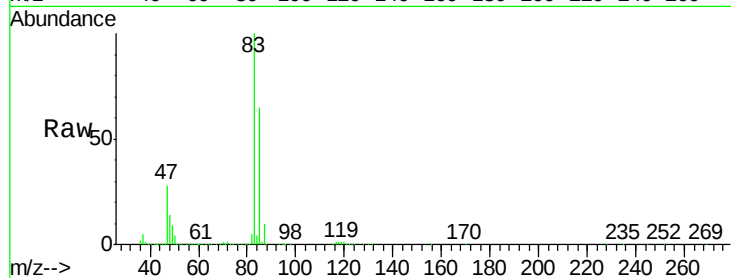
85 65.2 49.8 74.8

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#30

Cyclohexane

Concen: 16.841 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

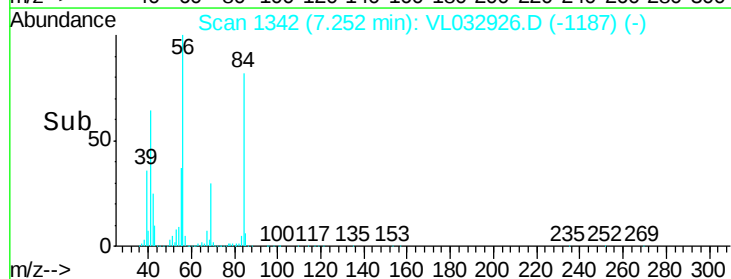
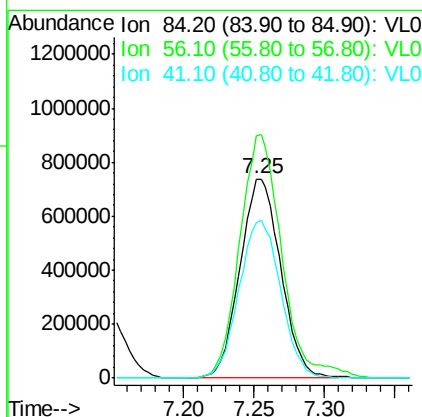
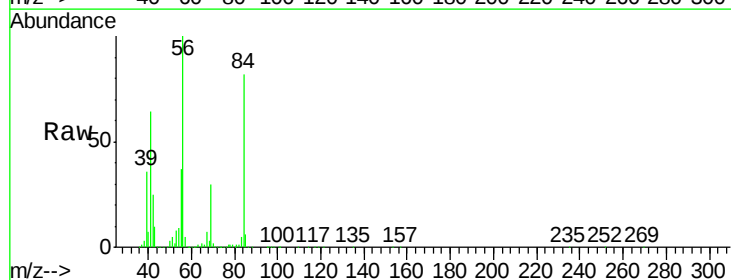
Tgt Ion: 84 Resp: 1491140

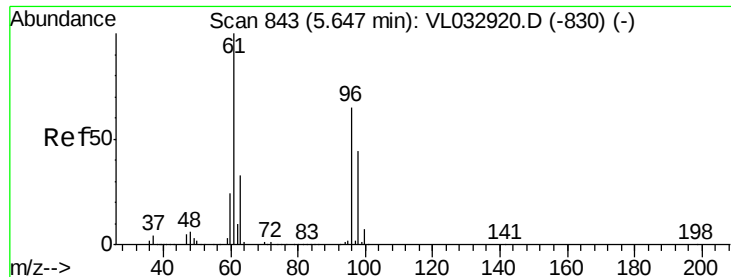
Ion Ratio Lower Upper

84 100

56 126.5 102.5 153.7

41 81.1 64.1 96.1





#31

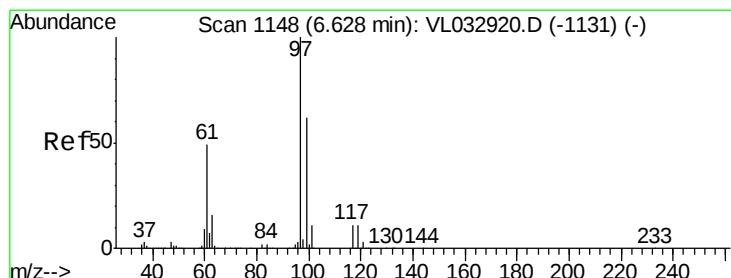
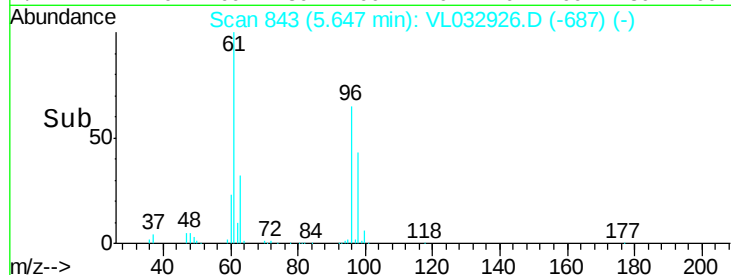
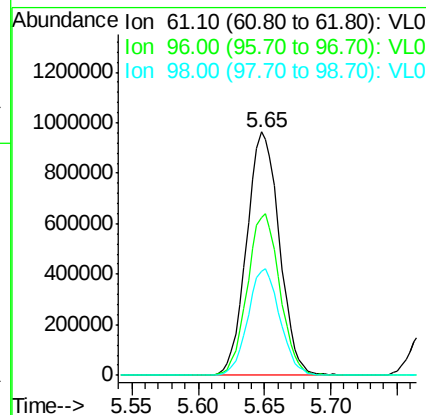
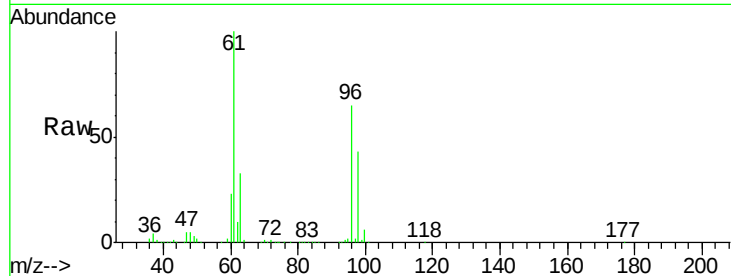
cis-1,2-Dichloroethene
Concen: 16.929 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 61 Resp: 1657757
Ion Ratio Lower Upper
61 100
96 64.7 51.9 77.9
98 42.5 35.0 52.4

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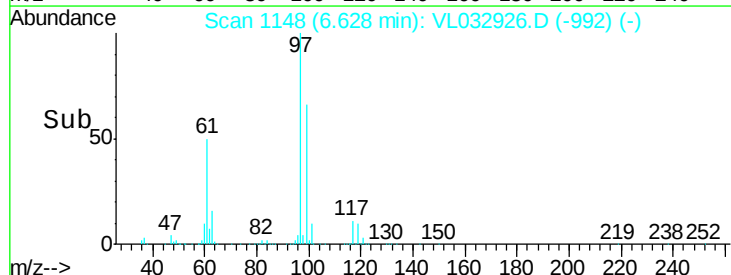
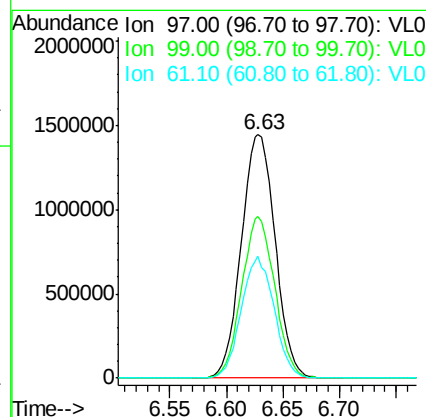
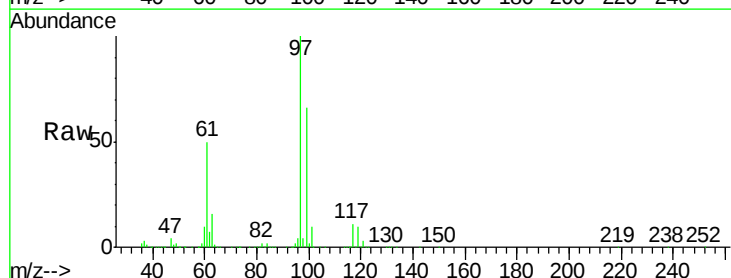
MMDadoda
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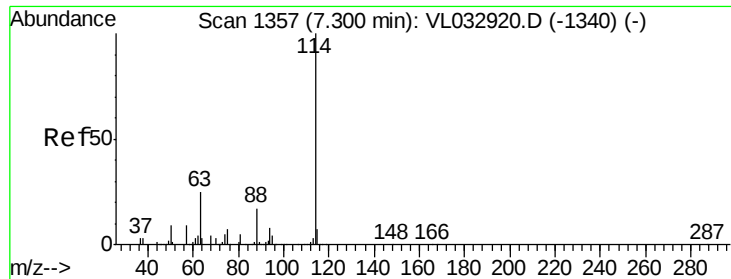


#32

1,1,1-Trichloroethane
Concen: 14.518 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 97 Resp: 3013855
Ion Ratio Lower Upper
97 100
99 64.6 51.1 76.7
61 48.4 39.3 58.9





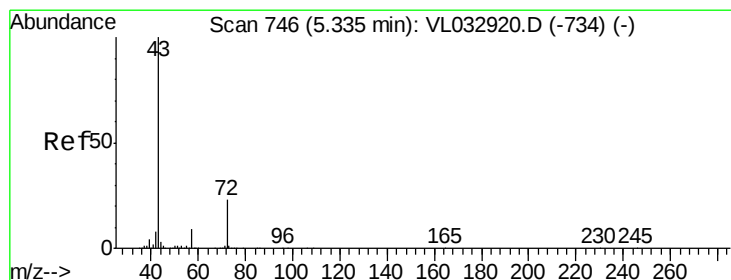
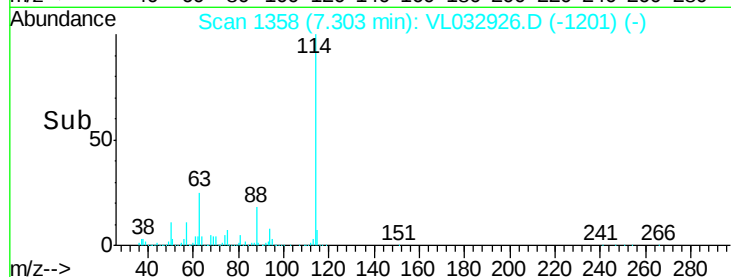
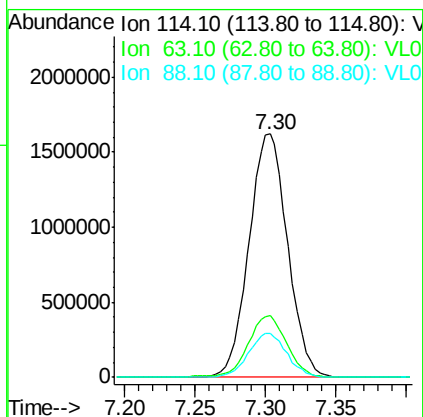
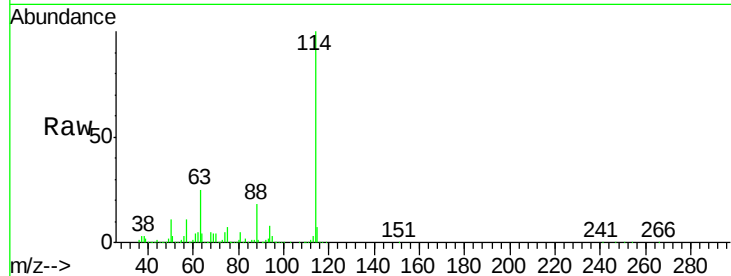
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 114 Resp: 3099274
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.1 30.1
 88 17.8 14.2 21.4

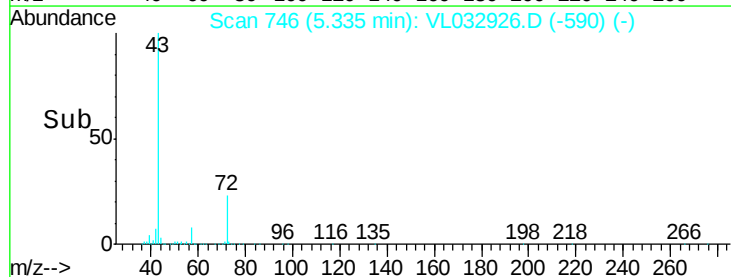
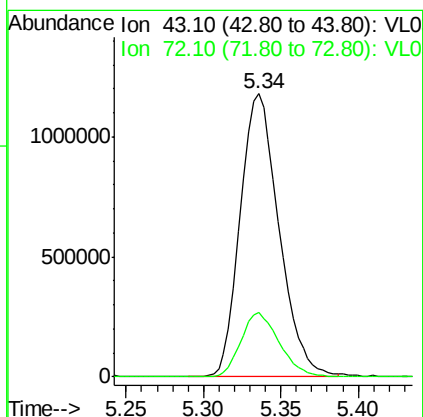
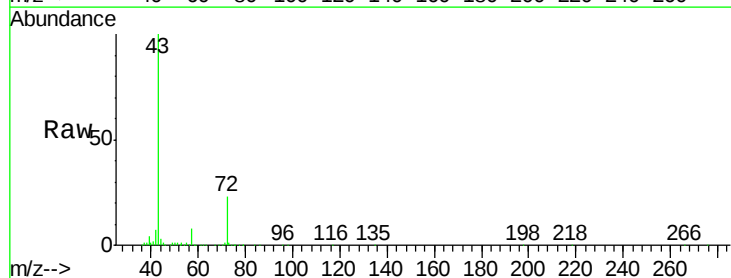
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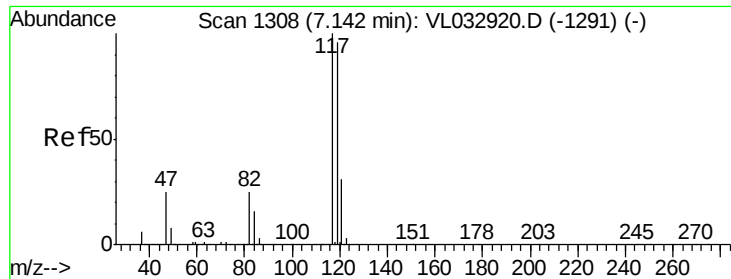
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#34
 2-Butanone
 Concen: 15.288 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion: 43 Resp: 2056025
 Ion Ratio Lower Upper
 43 100
 72 22.7 18.8 28.2





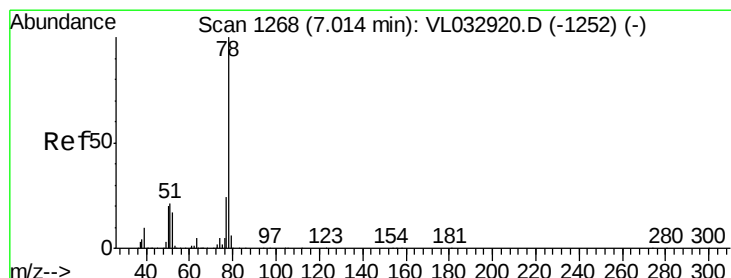
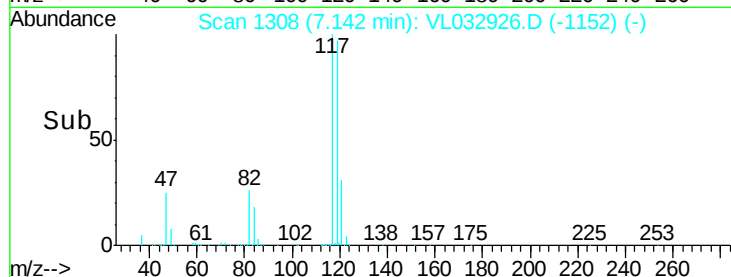
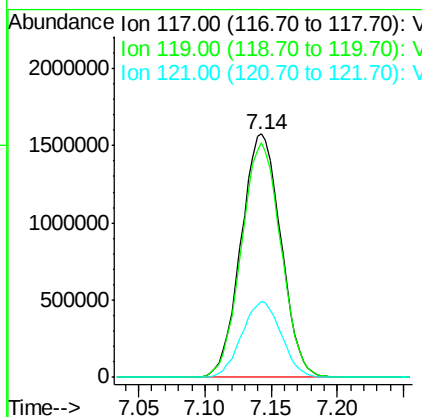
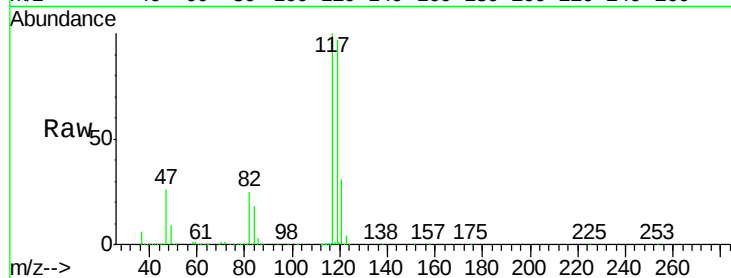
#35
Carbon Tetrachloride
Concen: 13.309 ppbv
RT: 7.14 min Scan# 1308
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:117 Resp: 3295193
Ion Ratio Lower Upper
117 100
119 96.5 76.5 114.7
121 31.1 24.5 36.7

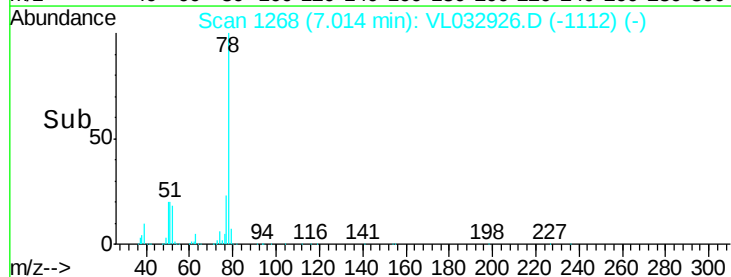
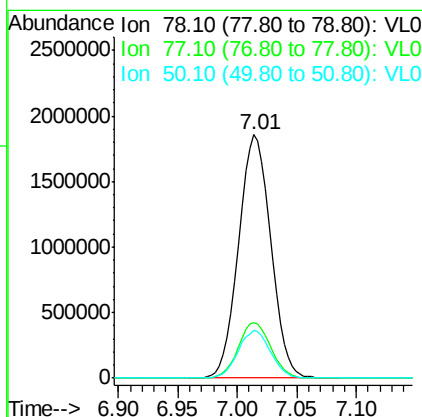
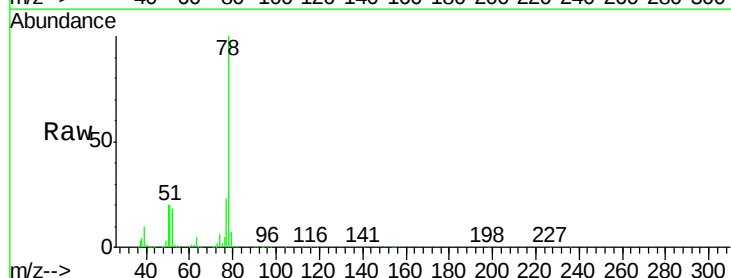
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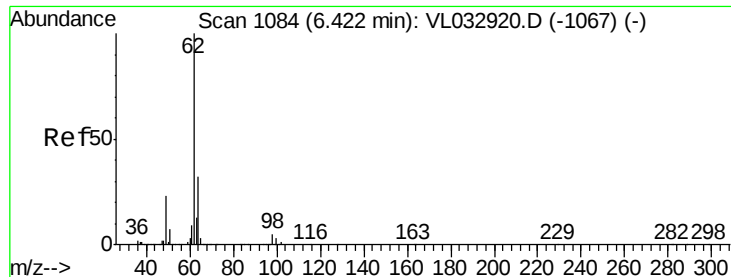
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#36
Benzene
Concen: 15.388 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 78 Resp: 3489771
Ion Ratio Lower Upper
78 100
77 22.6 18.9 28.3
50 19.6 16.1 24.1





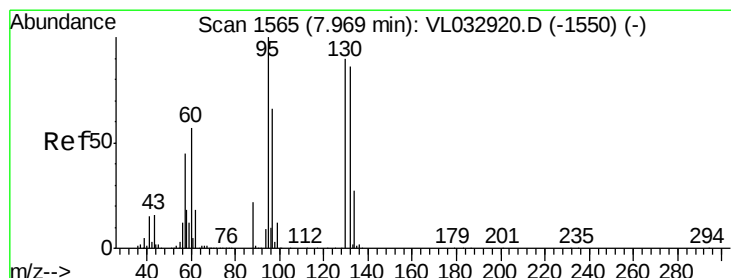
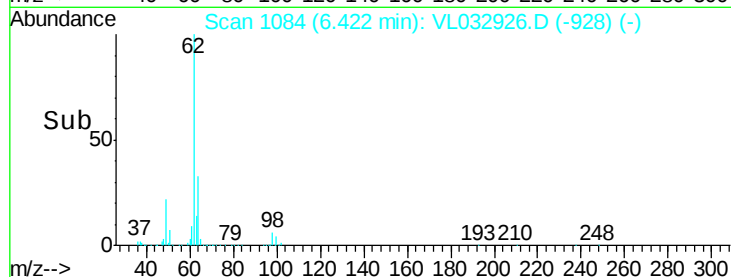
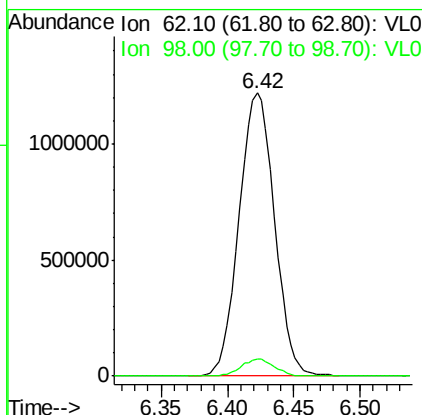
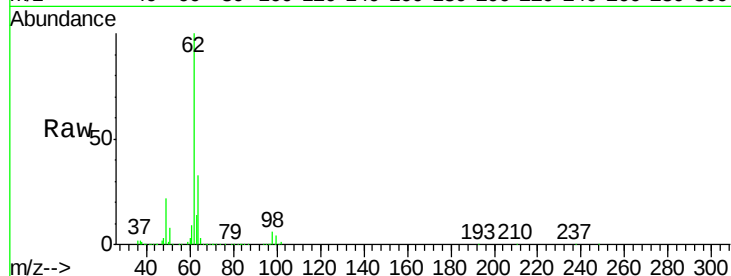
#37
 1,2-Dichloroethane
 Concen: 14.530 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 2269331
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.3 6.5

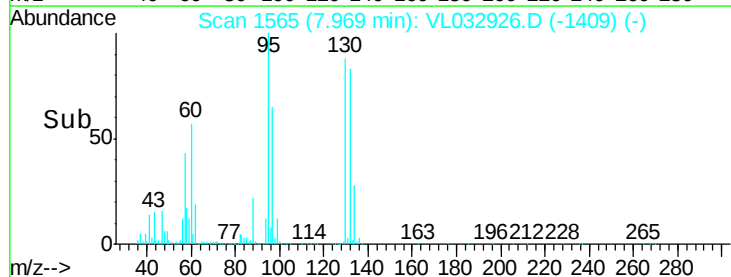
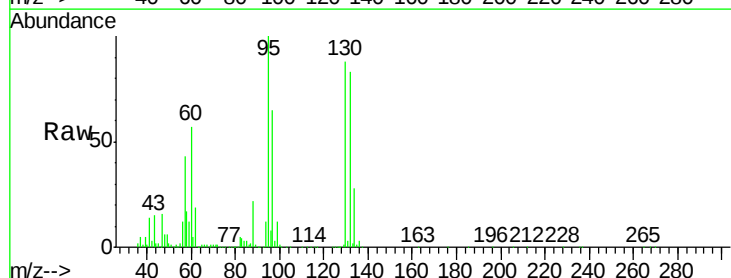
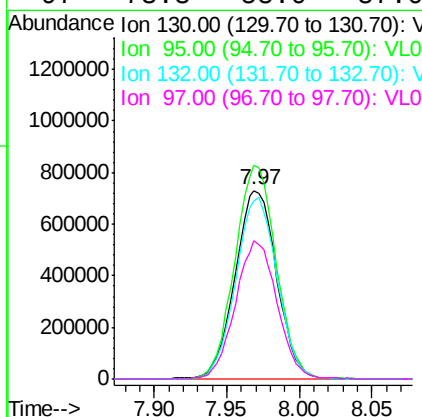
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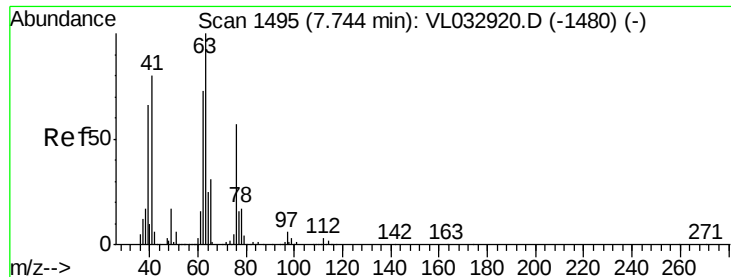
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#38
 Trichloroethene
 Concen: 15.260 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion: 130 Resp: 1444139
 Ion Ratio Lower Upper
 130 100
 95 113.4 88.6 132.8
 132 94.2 76.1 114.1
 97 73.3 58.0 87.0





#39

1,2-Dichloropropane

Concen: 15.321 ppbv

RT: 7.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 63 Resp: 1318872

Ion Ratio Lower Upper

63 100

41 77.9 63.9 95.9

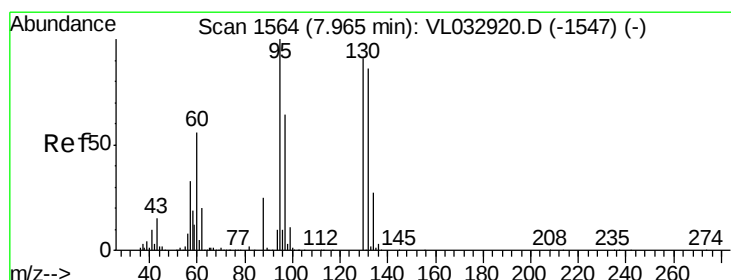
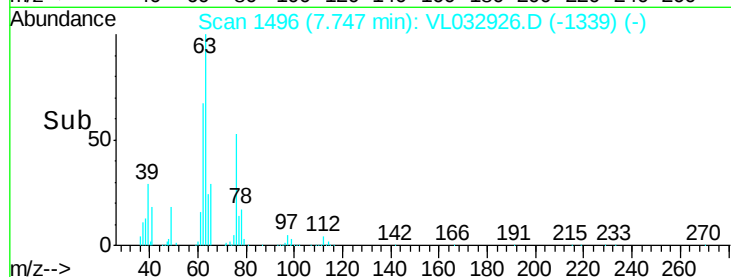
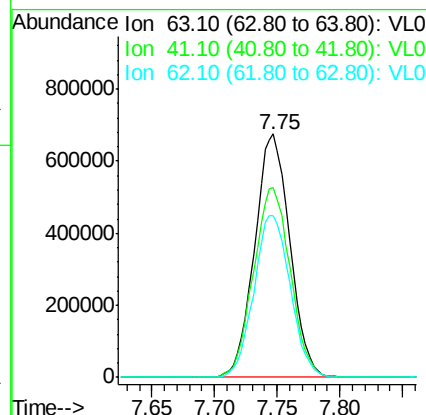
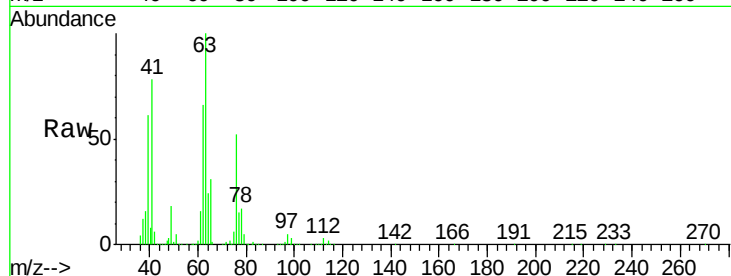
62 66.3 58.8 88.2

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#40

1,4-Dioxane

Concen: 14.741 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Tgt Ion: 88 Resp: 471030

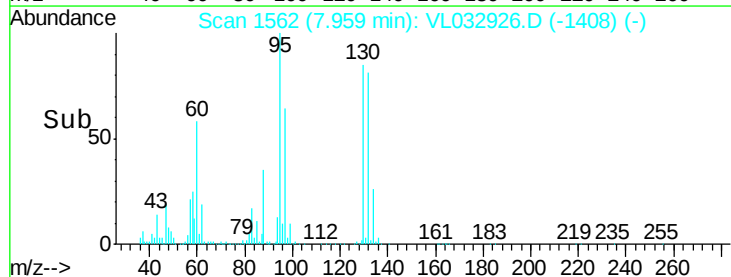
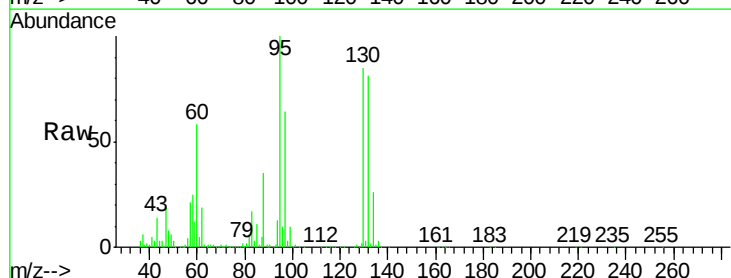
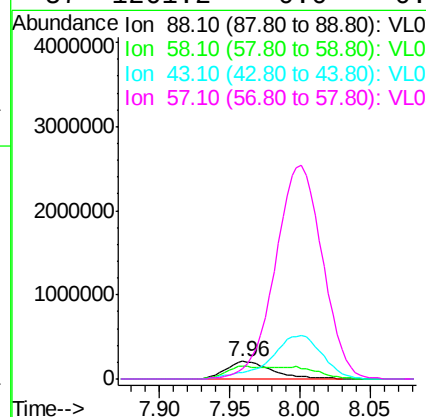
Ion Ratio Lower Upper

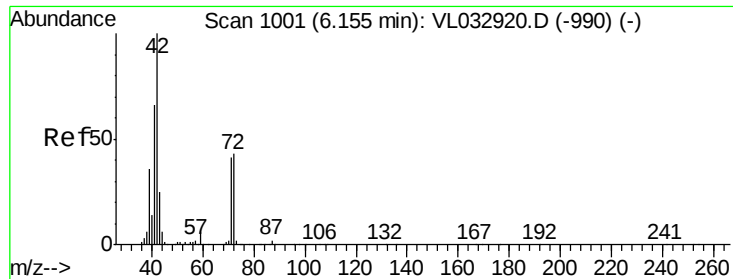
88 100

58 130.7 107.4 161.2

43 282.5 0.0 0.0#

57 1261.2 0.0 0.0#





#41

Tetrahydrofuran

Concen: 16.655 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

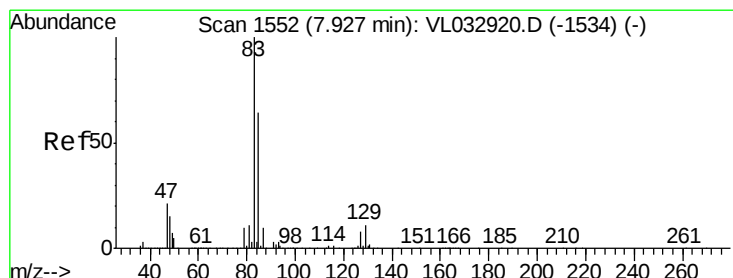
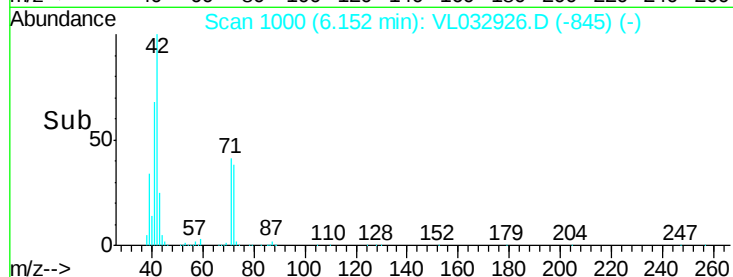
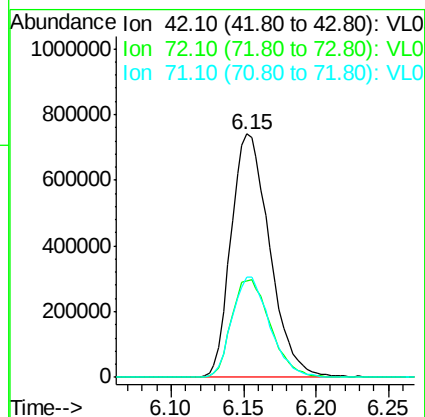
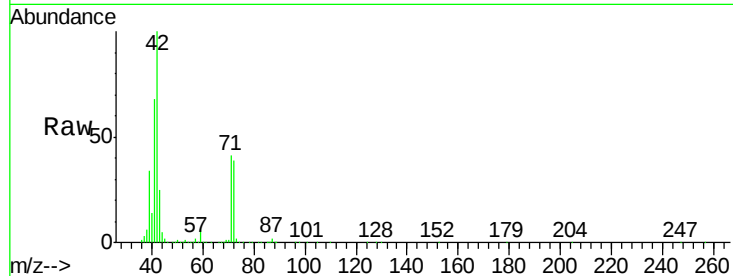
ClientSampleId :

VSTDIC015

Tgt Ion:	42	Resp:	1368191
Ion	Ratio	Lower	Upper
42	100		
72	40.7	32.9	49.3
71	40.4	32.0	48.0

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#42

Bromodichloromethane

Concen: 14.689 ppbv

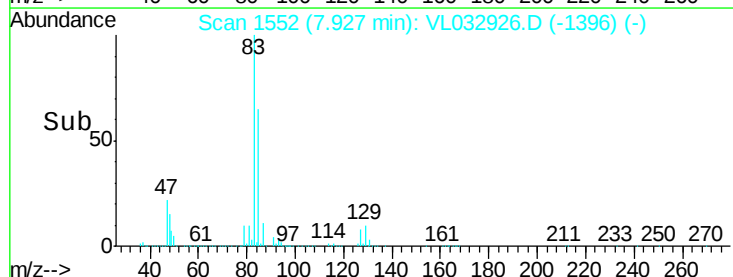
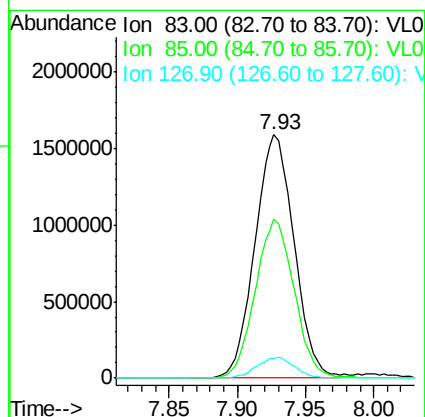
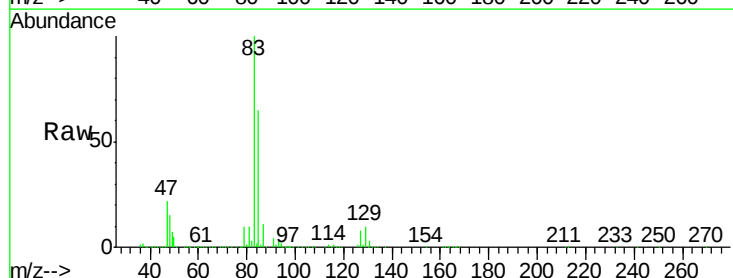
RT: 7.93 min Scan# 1552

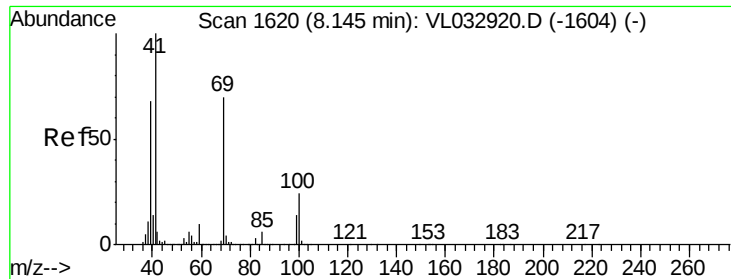
Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Tgt Ion:	83	Resp:	3171776
Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.9	76.3
127	8.0	6.7	10.1





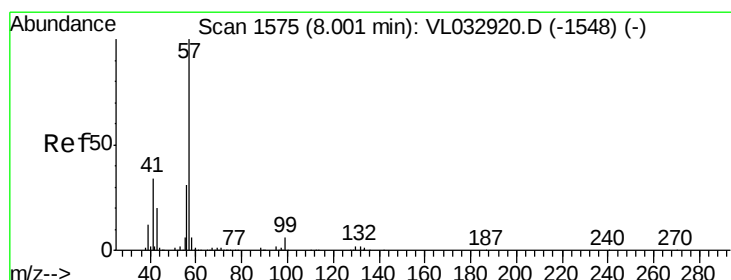
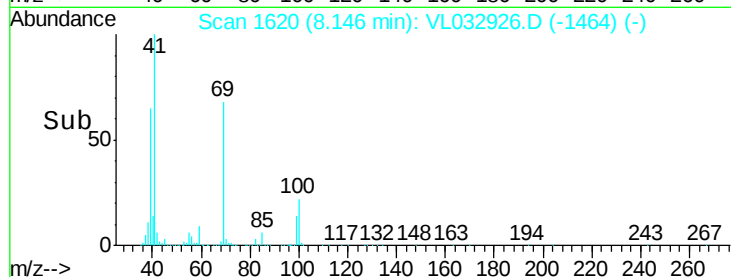
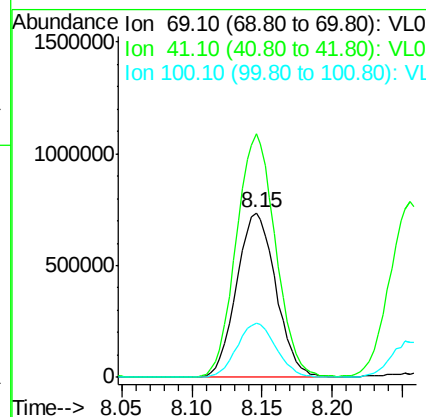
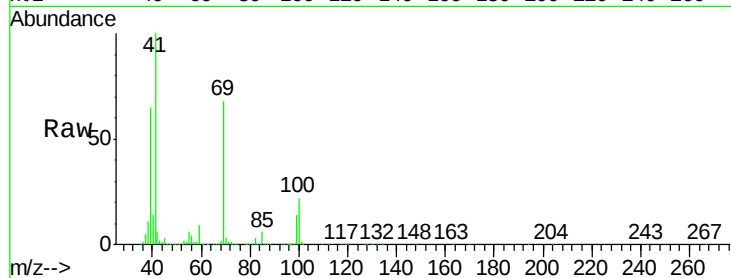
#43
Methyl Methacrylate
Concen: 17.608 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 69 Resp: 1437330
Ion Ratio Lower Upper
69 100
41 147.4 116.6 175.0
100 32.7 26.5 39.7

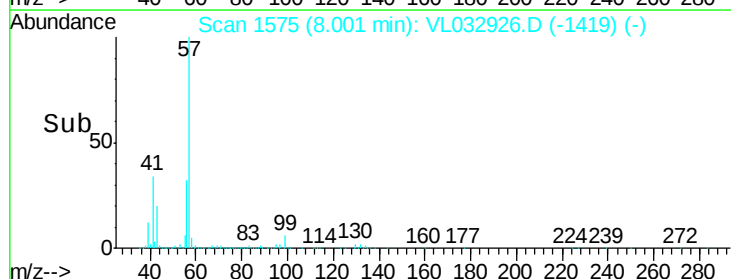
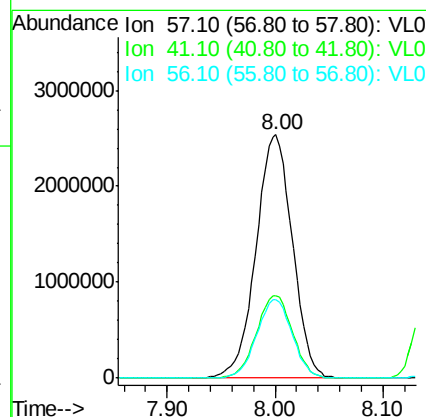
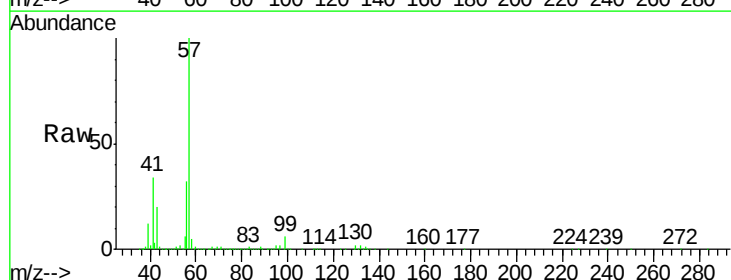
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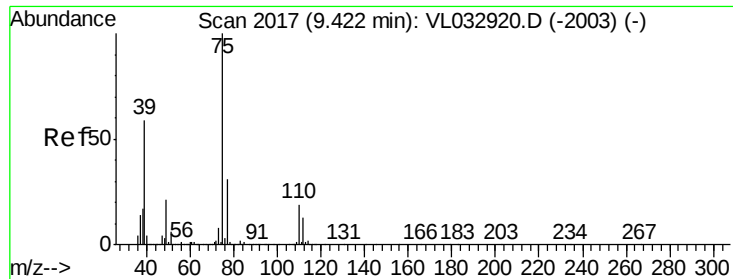
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 15.412 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 57 Resp: 5931233
Ion Ratio Lower Upper
57 100
41 33.7 27.0 40.4
56 31.5 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 21.087 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 75 Resp: 2020026

Ion Ratio Lower Upper

75 100

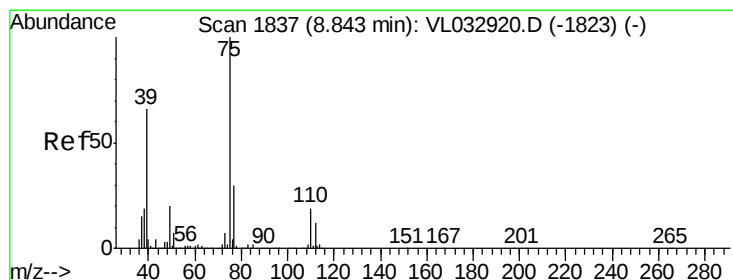
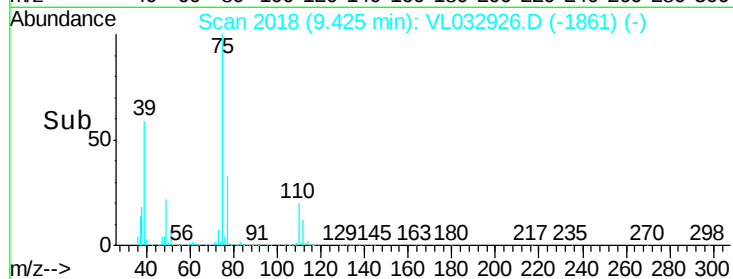
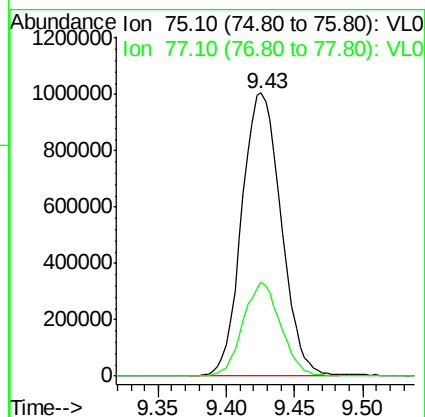
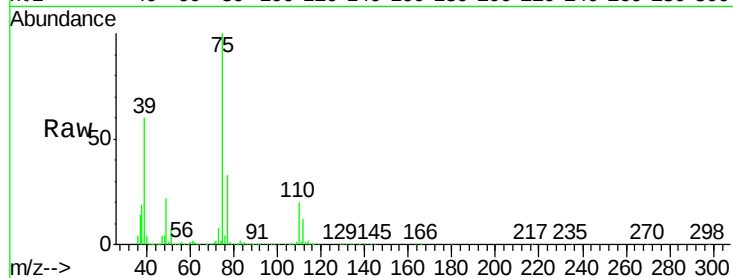
77 33.1 24.8 37.2

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#46

cis-1,3-Dichloropropene

Concen: 20.676 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

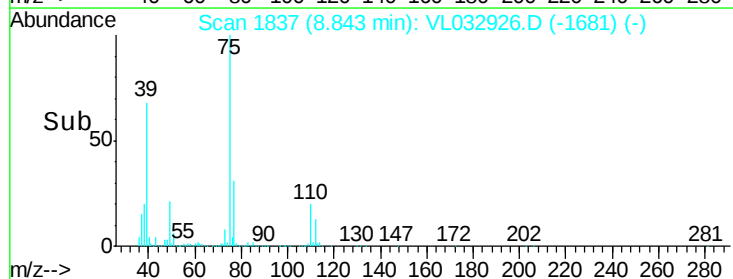
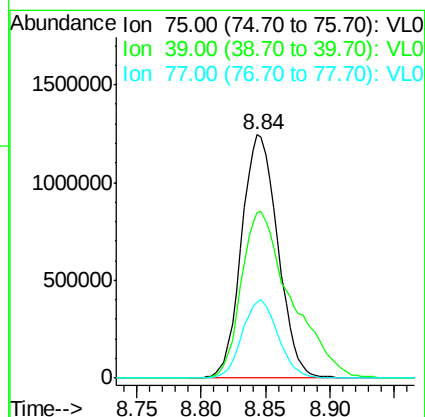
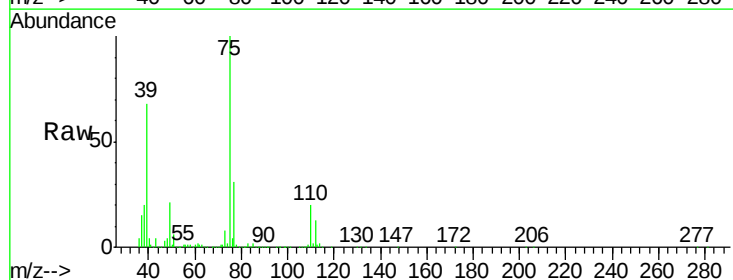
Tgt Ion: 75 Resp: 2436541

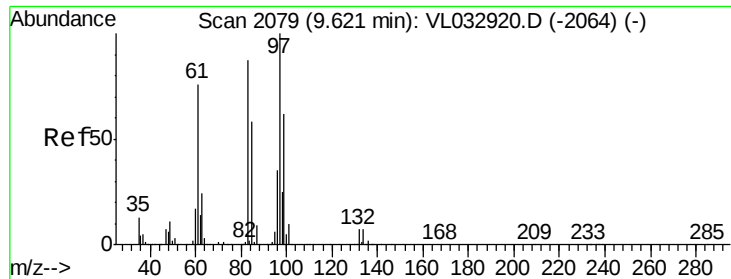
Ion Ratio Lower Upper

75 100

39 68.1 52.8 79.2

77 31.2 24.3 36.5





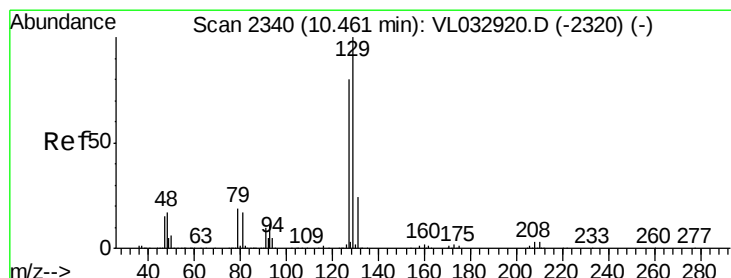
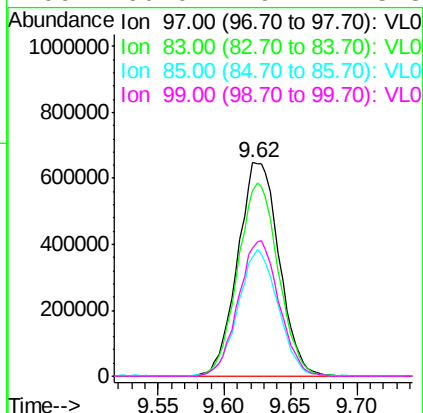
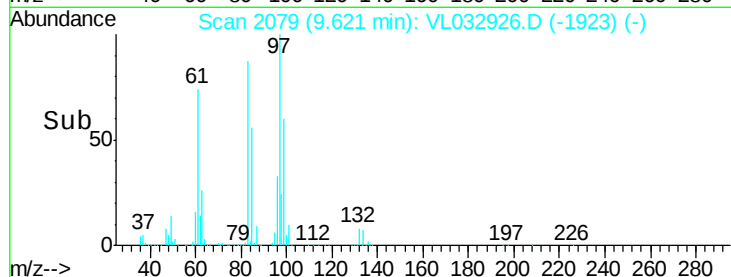
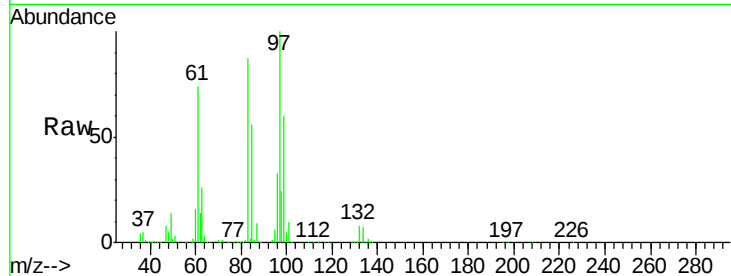
#47
 1,1,2-Trichloroethane
 Concen: 14.710 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.6	69.8	104.8
85	55.5	46.7	70.1
99	60.0	49.2	73.8

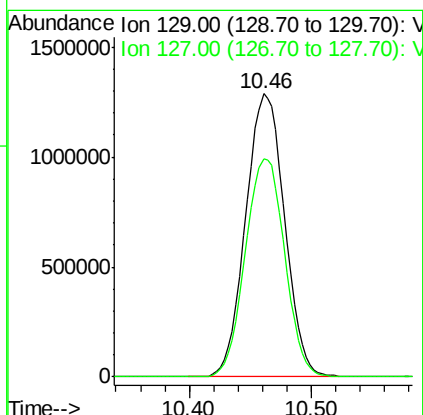
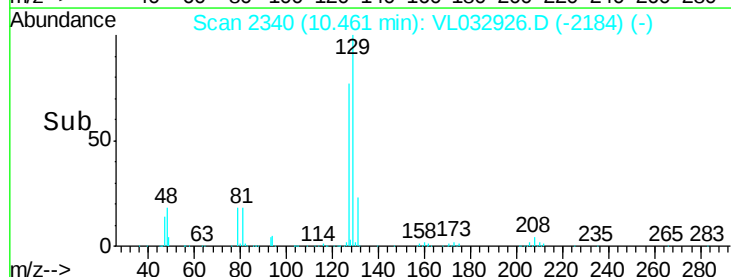
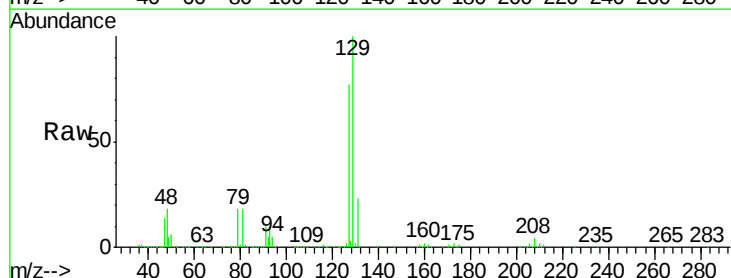
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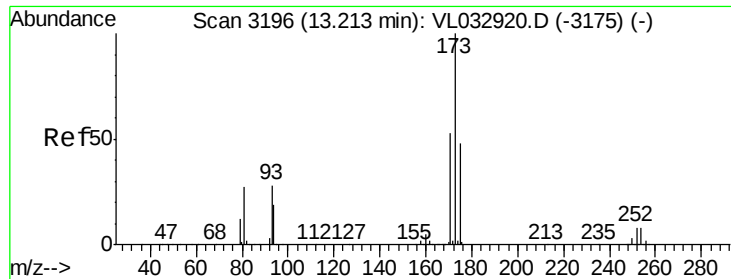
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#48
 Dibromochloromethane
 Concen: 16.132 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.3	117.8





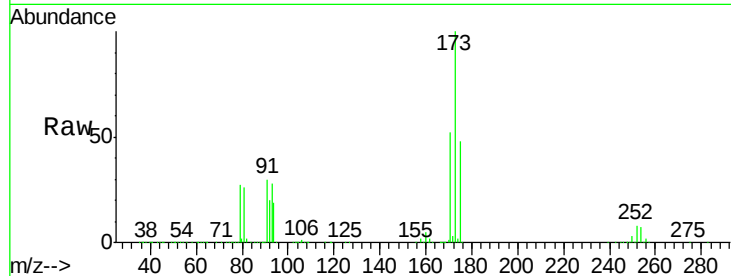
#49
Bromoform
Concen: 16.551 ppbv
RT: 13.22 min Scan# 3197
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

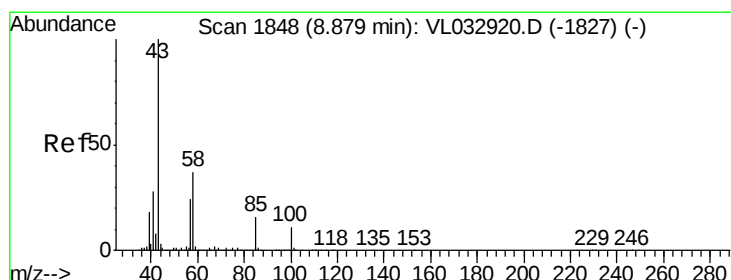
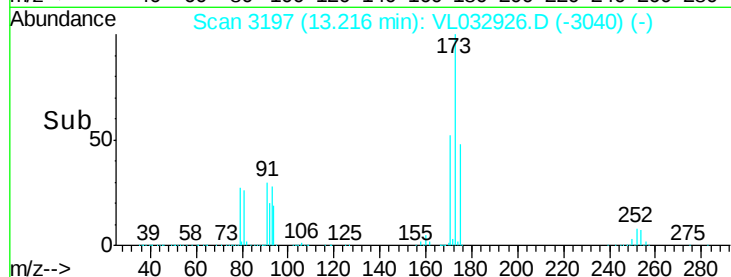
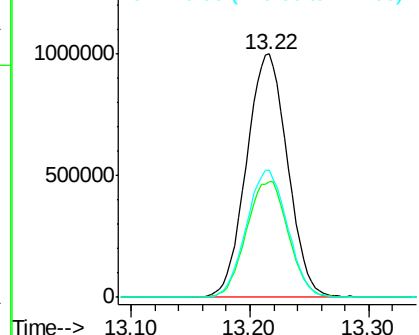
Tgt Ion:173 Resp: 2380859
Ion Ratio Lower Upper
173 100
175 49.1 39.0 58.4
171 52.5 41.5 62.3

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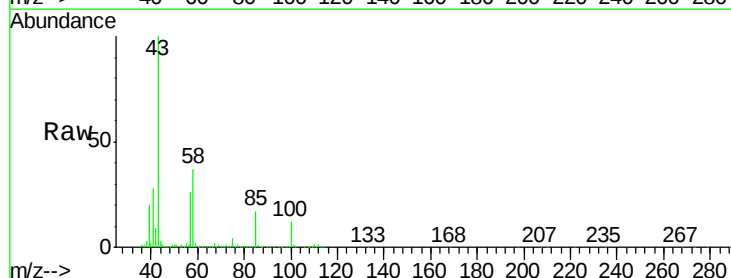


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

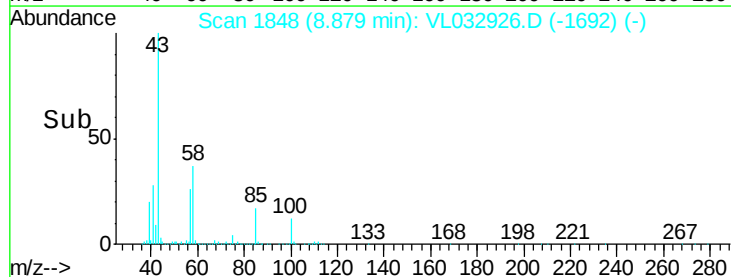
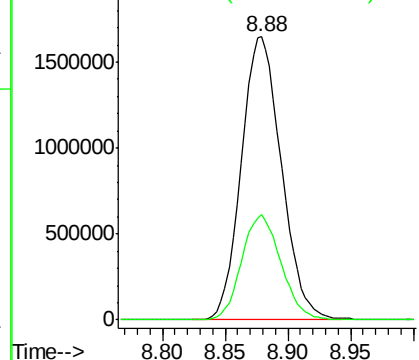


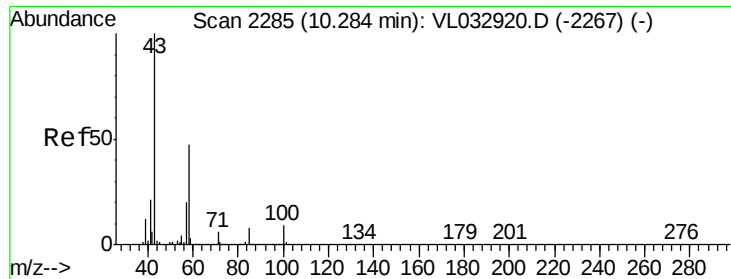
#50
4-Methyl-2-Pentanone
Concen: 17.482 ppbv
RT: 8.88 min Scan# 1848
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 43 Resp: 3653097
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





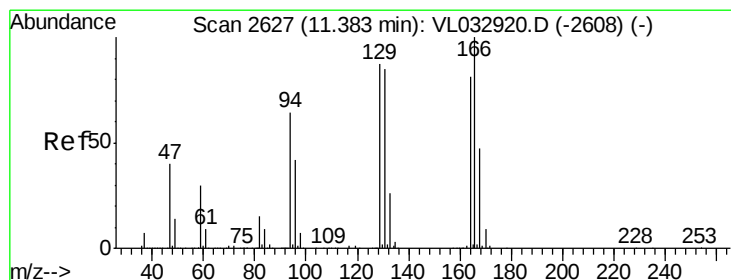
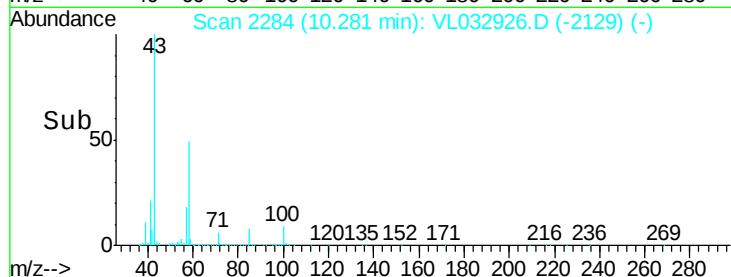
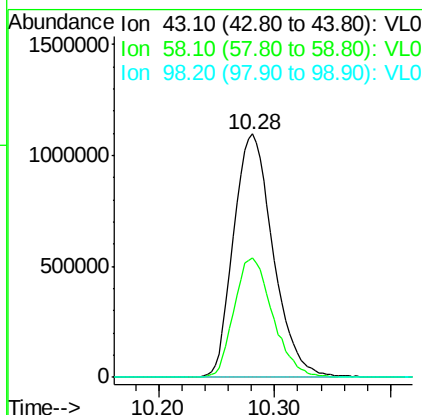
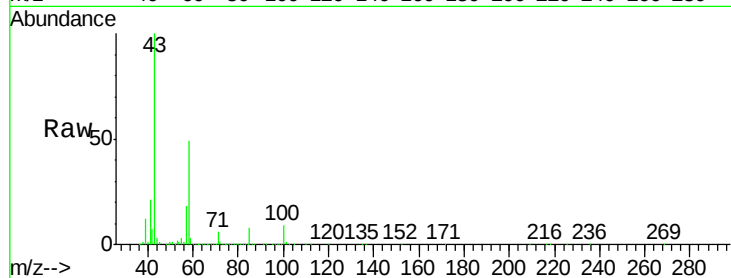
#51
2-Hexanone
Concen: 18.517 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. -0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 2589585
Ion Ratio Lower Upper
43 100
58 48.2 38.1 57.1
98 0.4 0.4 0.6

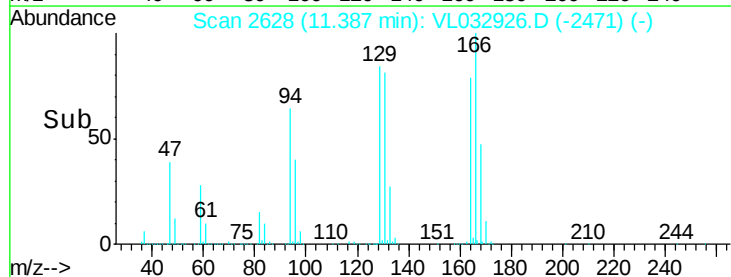
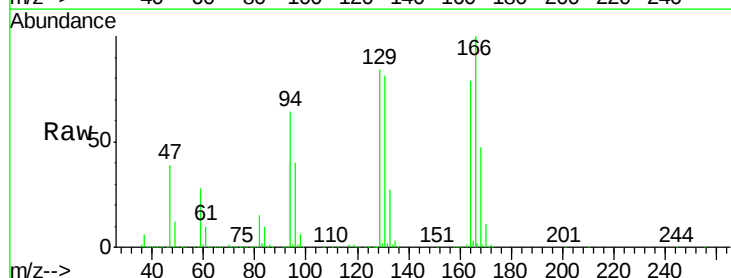
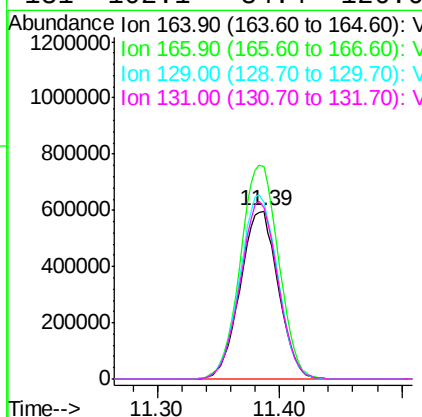
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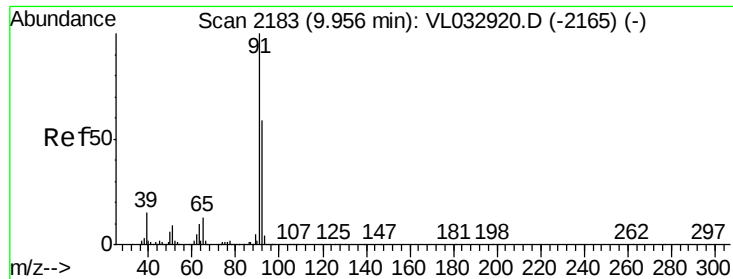
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#52
Tetrachloroethene
Concen: 15.515 ppbv
RT: 11.39 min Scan# 2628
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 164 Resp: 1280216
Ion Ratio Lower Upper
164 100
166 126.2 98.8 148.2
129 105.5 85.5 128.3
131 102.1 84.4 126.6





#53

Toluene

Concen: 17.773 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 4143673

Ion Ratio Lower Upper

91 100

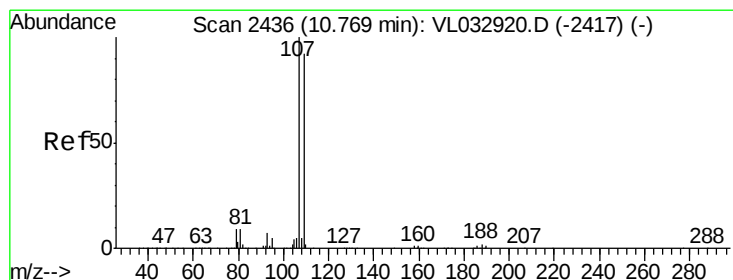
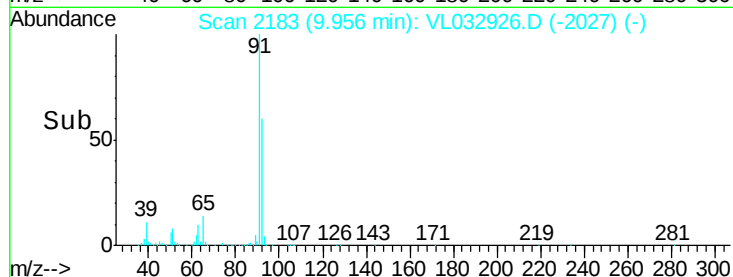
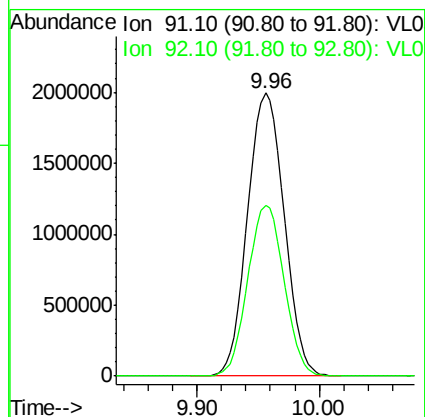
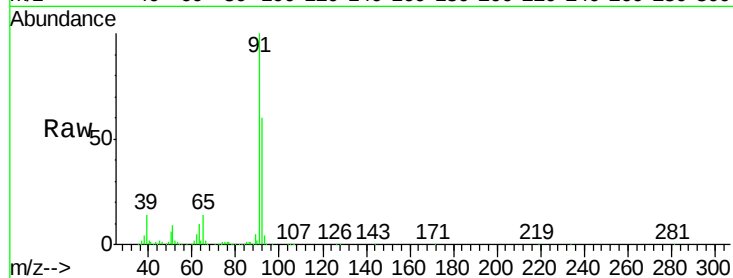
92 59.8 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 17.662 ppbv

RT: 10.77 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VL032926.D

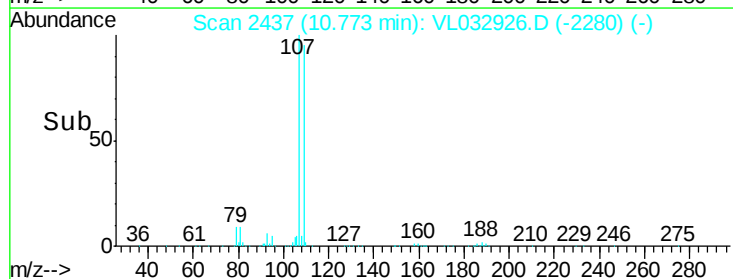
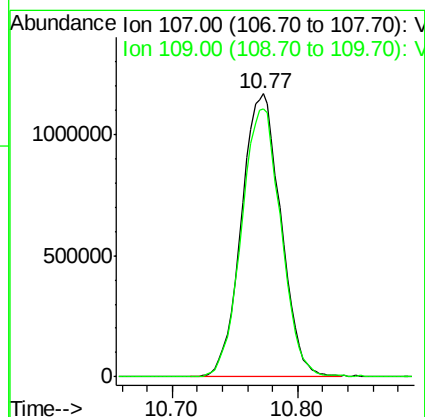
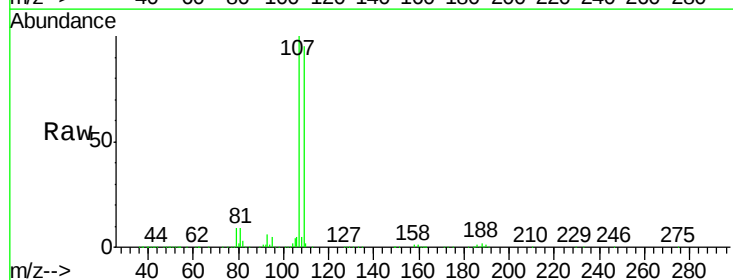
Acq: 7 Dec 2018 7:29

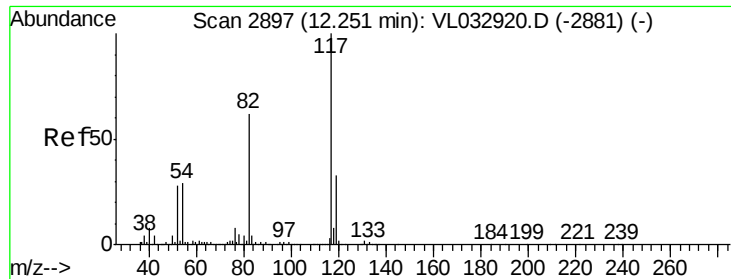
Tgt Ion: 107 Resp: 2535546

Ion Ratio Lower Upper

107 100

109 94.5 73.4 110.2





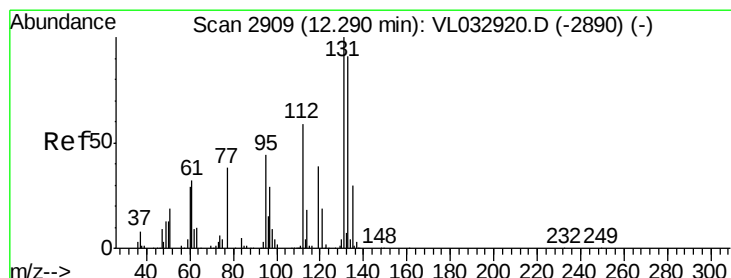
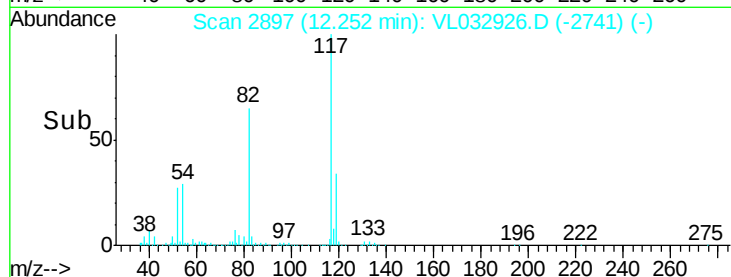
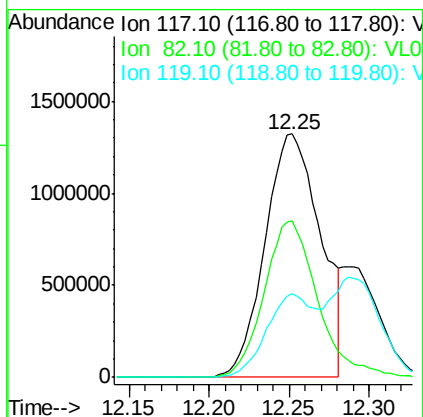
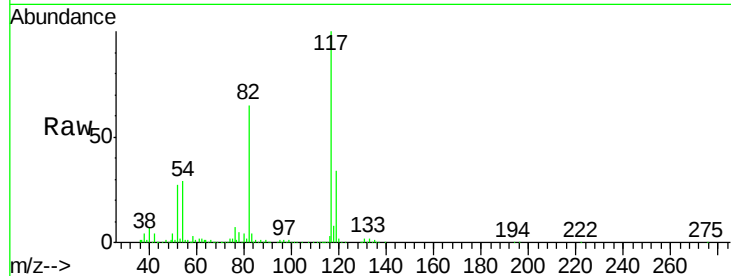
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
117	100		
82	62.3	47.8	71.8
119	0.0	43.1	64.7#

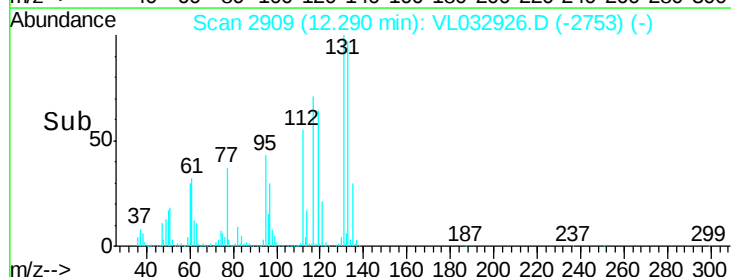
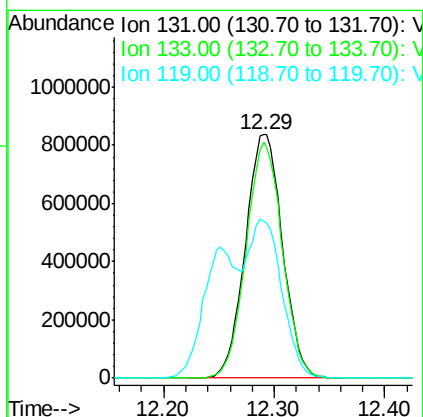
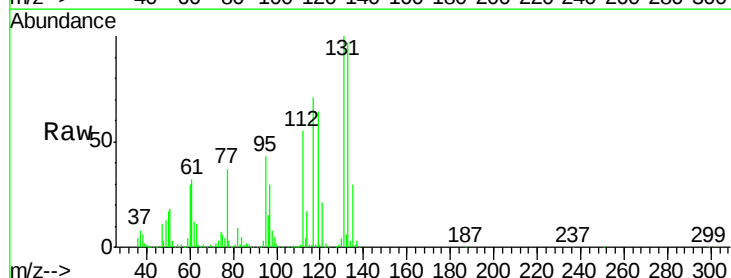
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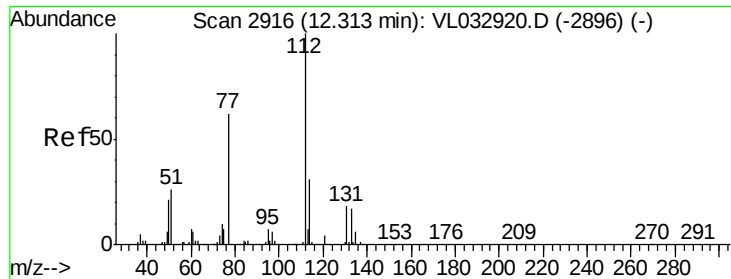
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#56
1,1,1,2-Tetrachloroethane
Concen: 13.438 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	75.1	112.7
119	110.9	47.5	71.3#





#57

Chlorobenzene

Concen: 13.491 ppbv

RT: 12.31 min Scan# 2916

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 112 Resp: 3165658

Ion Ratio Lower Upper

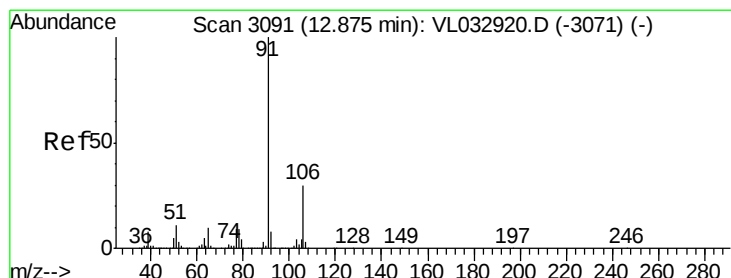
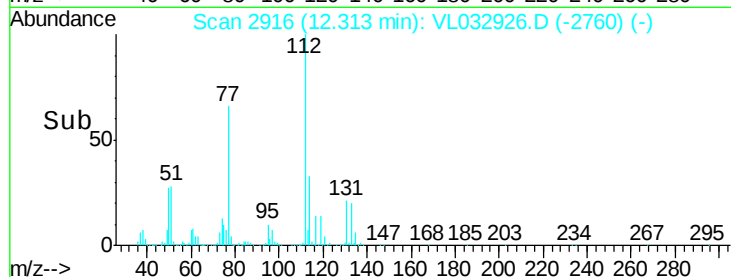
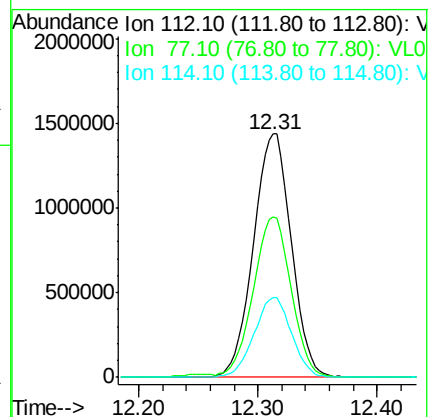
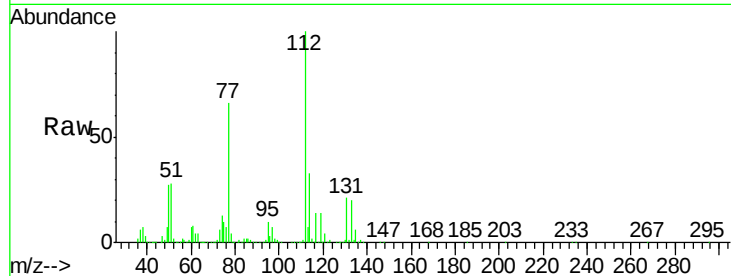
112 100

77 65.6 51.1 76.7

114 32.7 28.4 34.7

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#58

Ethyl Benzene

Concen: 17.143 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. 0.00 min

Lab File: VL032926.D

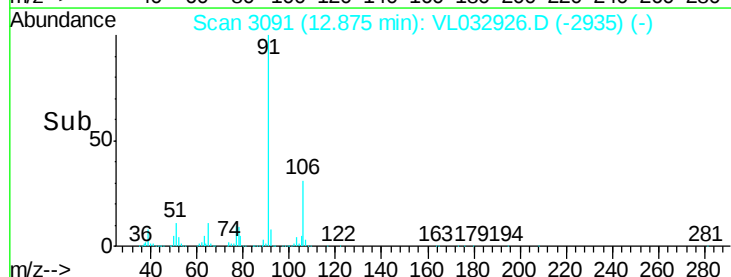
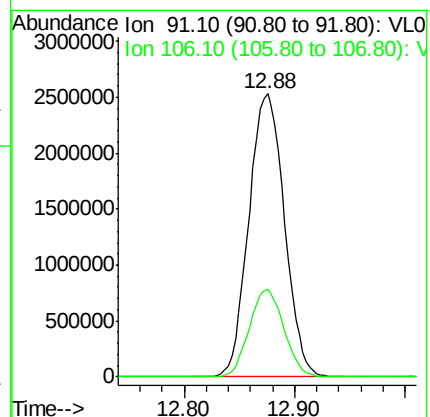
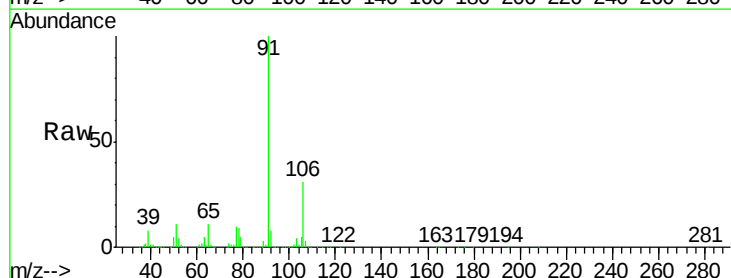
Acq: 7 Dec 2018 7:29

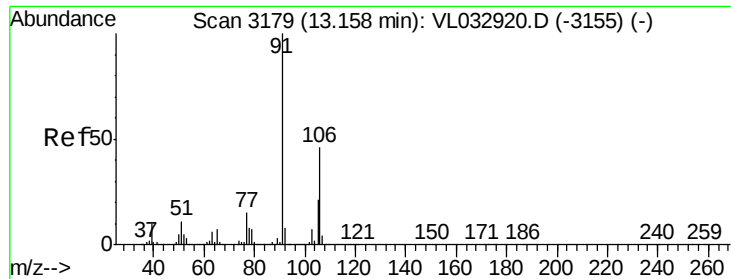
Tgt Ion: 91 Resp: 5660341

Ion Ratio Lower Upper

91 100

106 31.1 23.9 35.9





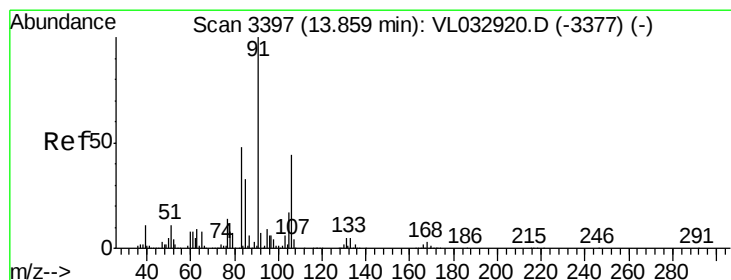
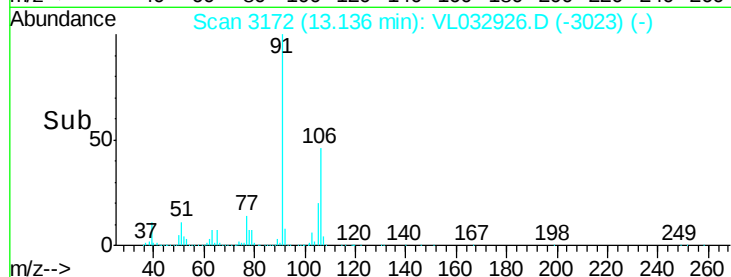
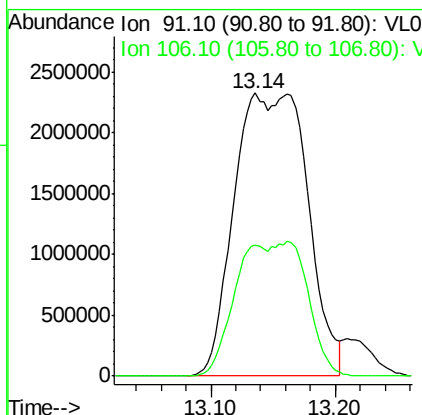
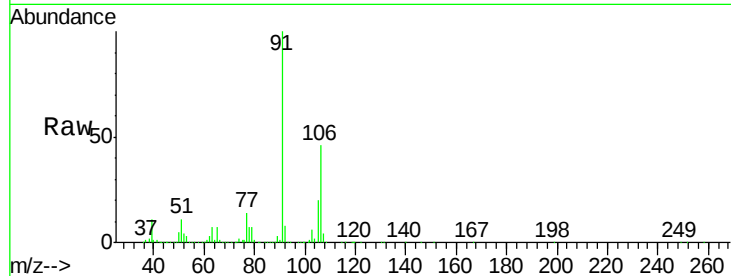
#59
m/p-Xylene
Concen: 31.120 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. -0.02 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 9510800
Ion Ratio Lower Upper
91 100
106 46.1 0.0 0.0#

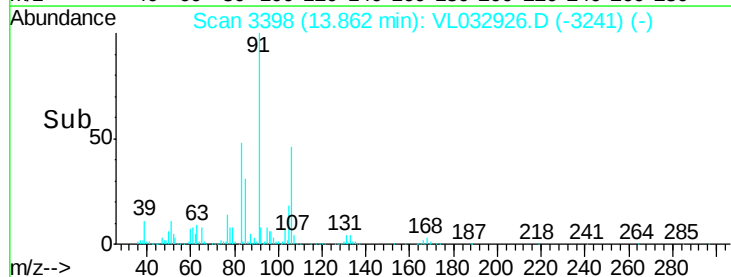
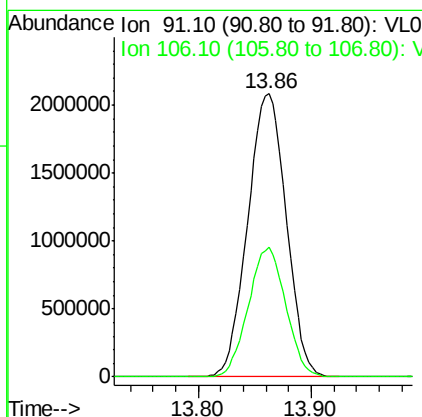
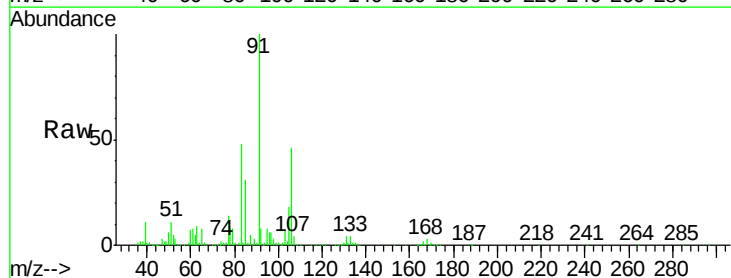
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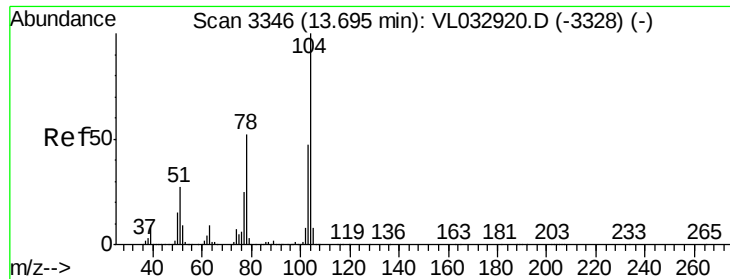
MMDadoda
12/11/2018 10:08:28 AM



#60
o-Xylene
Concen: 16.064 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 91 Resp: 4925197
Ion Ratio Lower Upper
91 100
106 44.4 21.9 65.8





#61

Styrene

Concen: 19.020 ppbv

RT: 13.70 min Scan# 3347

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:104 Resp: 3733878

Ion Ratio Lower Upper

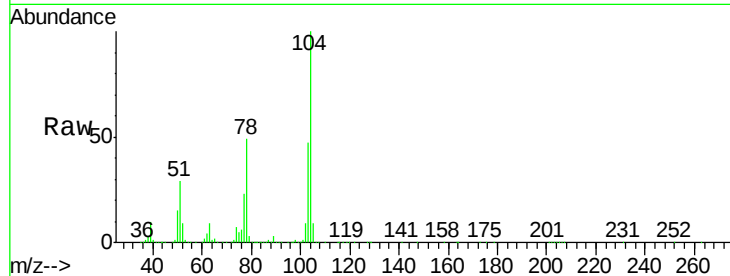
104 100

78 52.2 42.0 63.0

103 47.7 38.3 57.5

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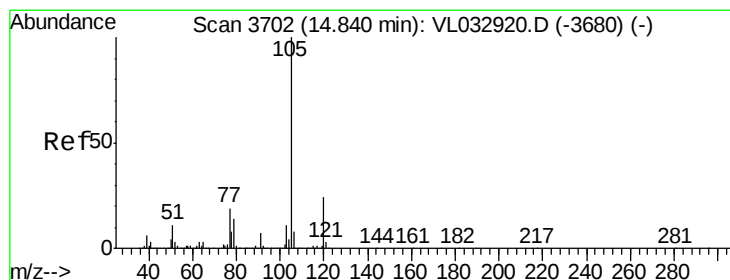
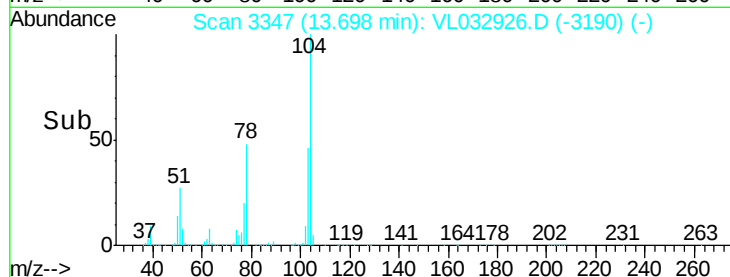
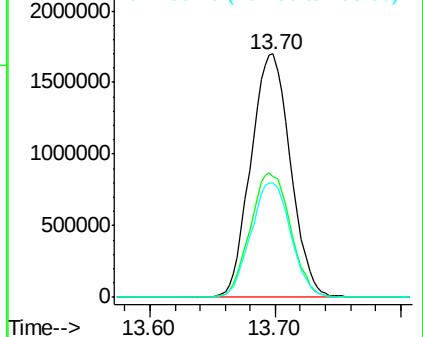
MMDadoda
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 15.383 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VL032926.D

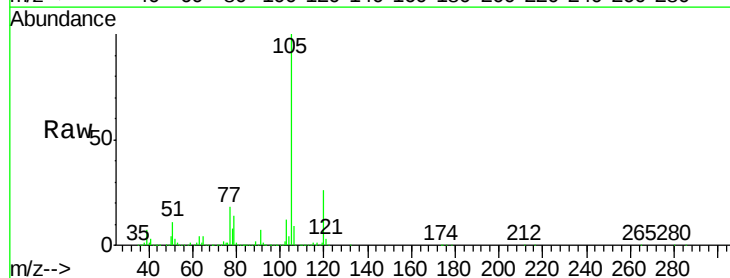
Acq: 7 Dec 2018 7:29

Tgt Ion:105 Resp: 6639368

Ion Ratio Lower Upper

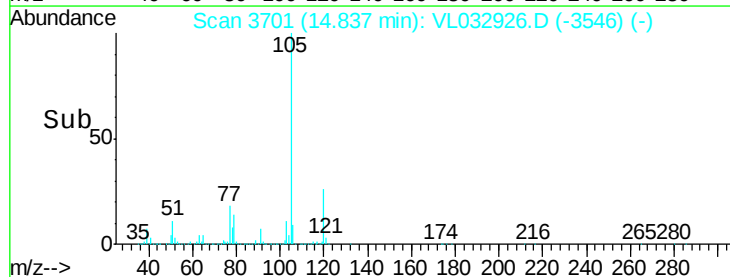
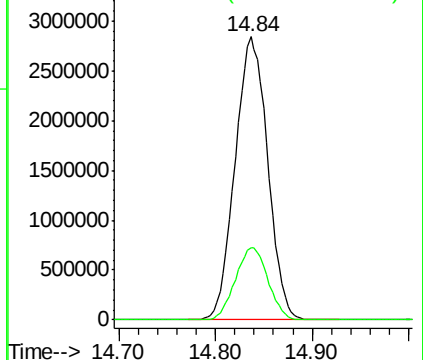
105 100

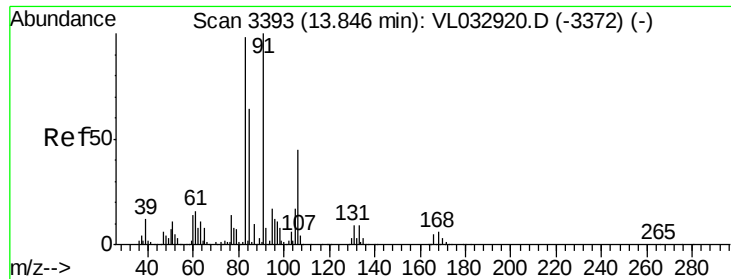
120 25.6 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





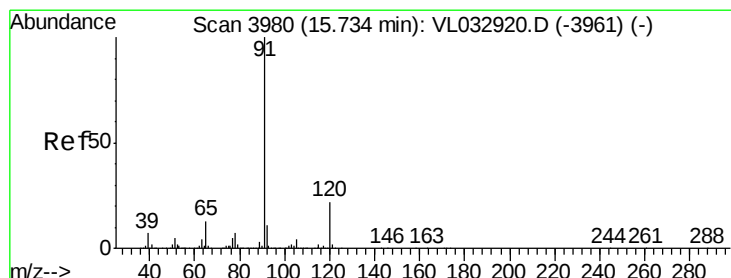
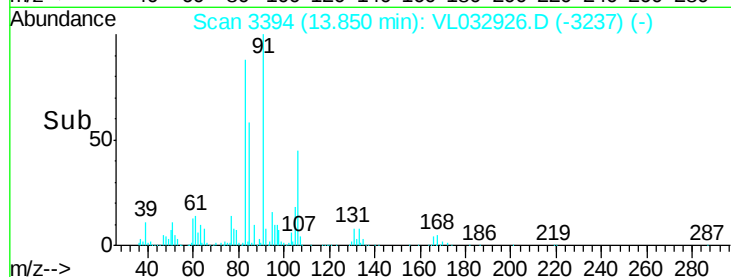
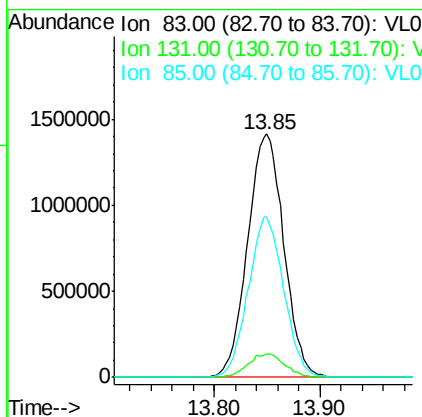
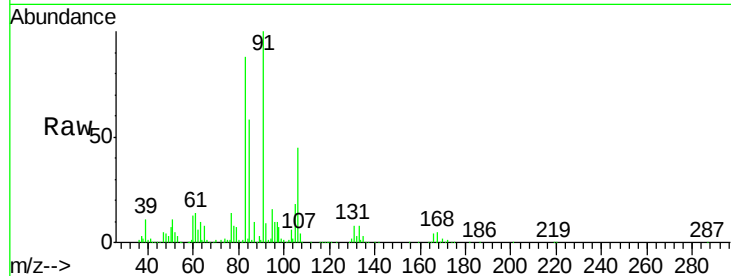
#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.851 ppbv
 RT: 13.85 min Scan# 3394
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 83 Resp: 3381119
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.9 14.6
 85 64.8 32.9 98.6

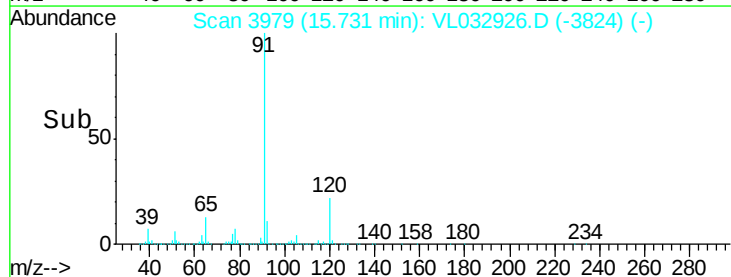
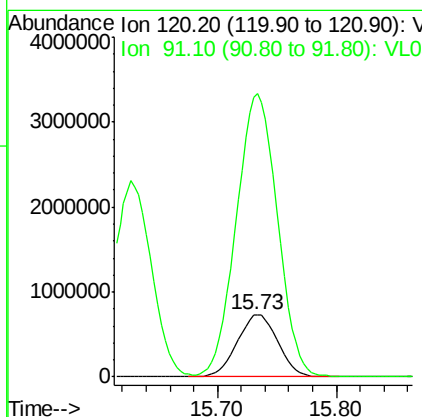
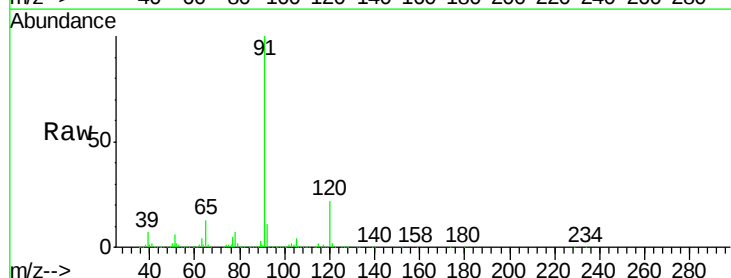
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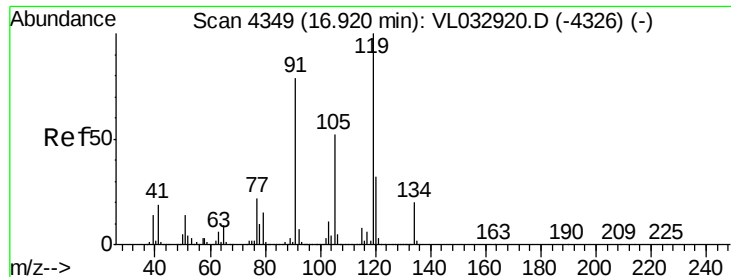
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 12/11/2018 10:08:28 AM



#64
 n-propylbenzene
 Concen: 15.335 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion: 120 Resp: 1720252
 Ion Ratio Lower Upper
 120 100
 91 464.6 380.4 570.6





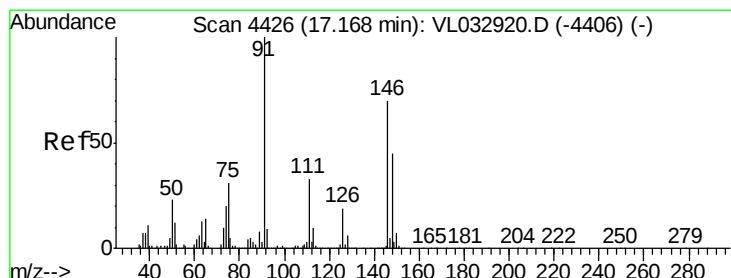
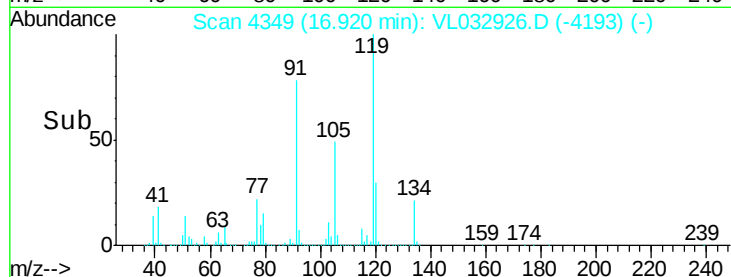
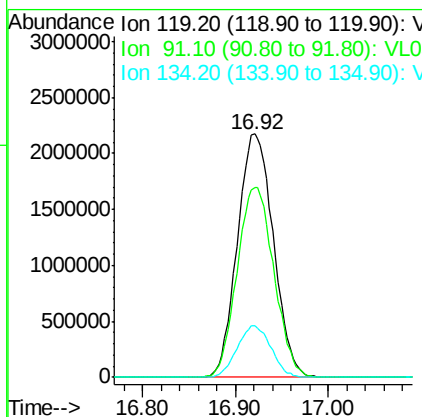
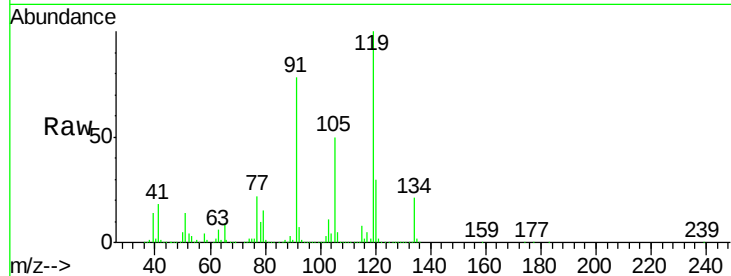
#65
 tert-Butylbenzene
 Concen: 14.414 ppbv
 RT: 16.92 min Scan# 4349
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 119 Resp: 5842855
 Ion Ratio Lower Upper
 119 100
 91 79.9 64.5 96.7
 134 19.9 15.7 23.5

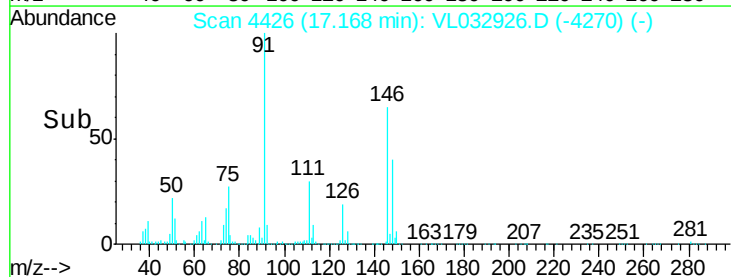
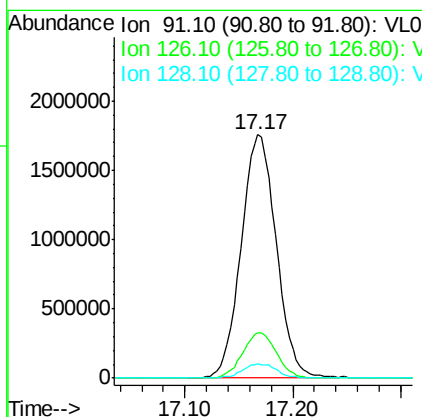
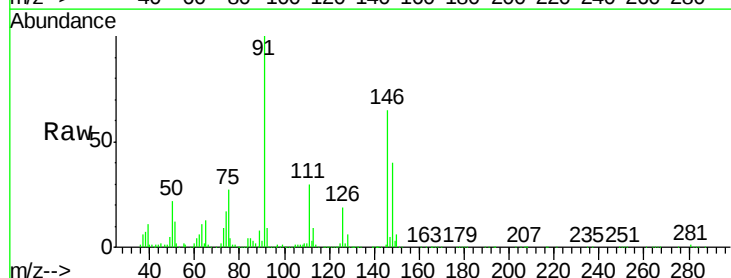
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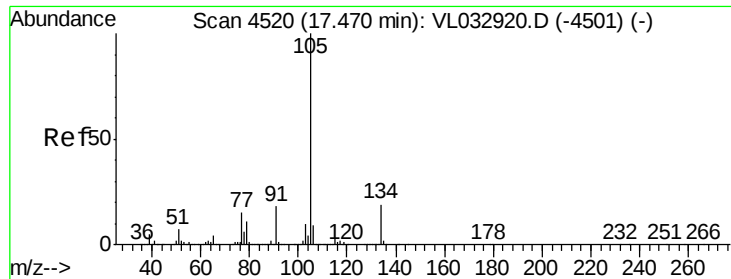
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#66
 Benzyl Chloride
 Concen: 18.732 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion: 91 Resp: 3977742
 Ion Ratio Lower Upper
 91 100
 126 18.2 14.1 21.1
 128 5.8 4.5 6.7





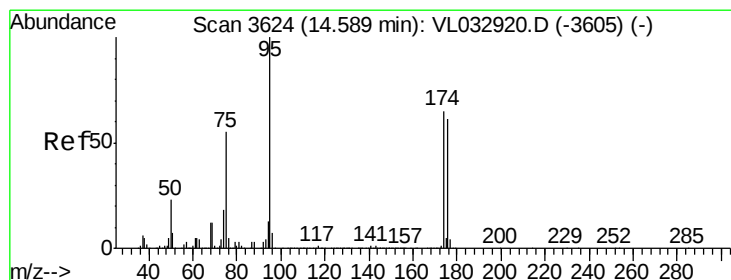
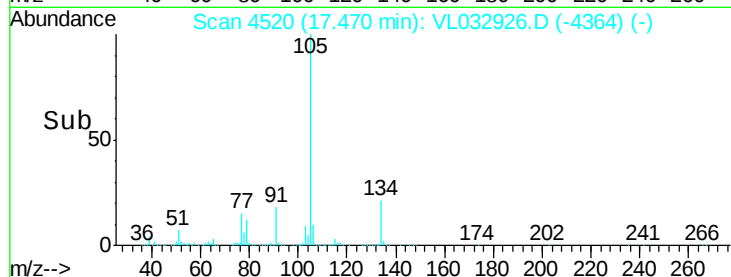
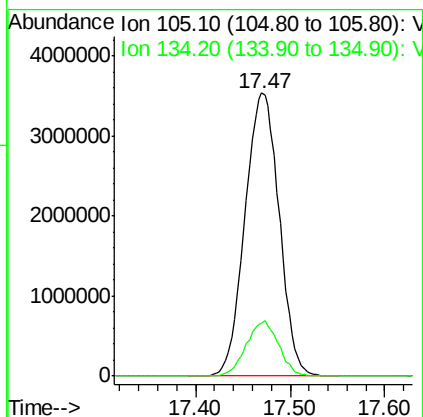
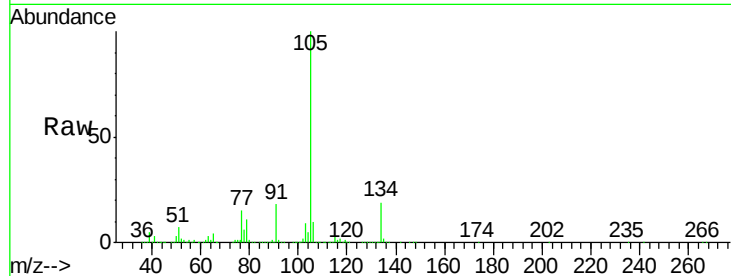
#67
 sec-Butylbenzene
 Concen: 14.944 ppbv
 RT: 17.47 min Scan# 4520
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 105 Resp: 8867798
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8

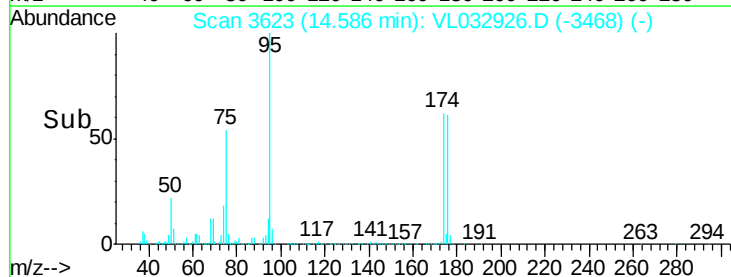
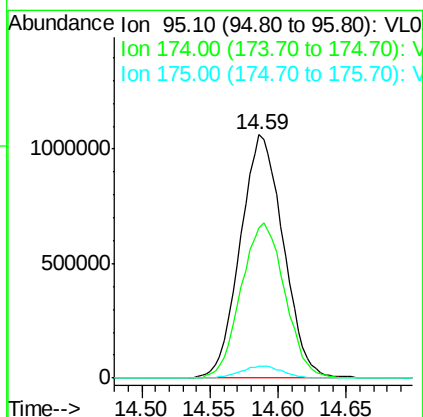
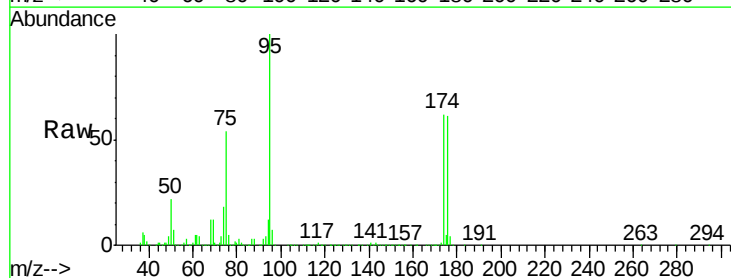
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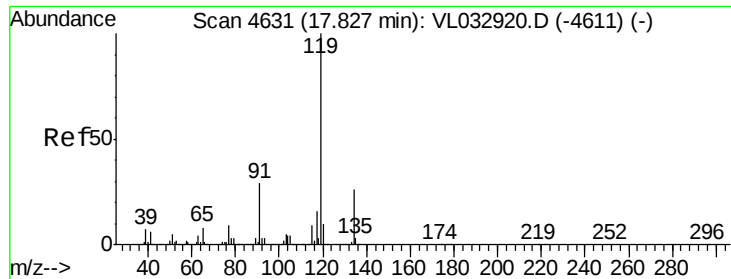
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.825 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion: 95 Resp: 2316640
 Ion Ratio Lower Upper
 95 100
 174 65.4 51.4 77.0
 175 4.9 3.8 5.6





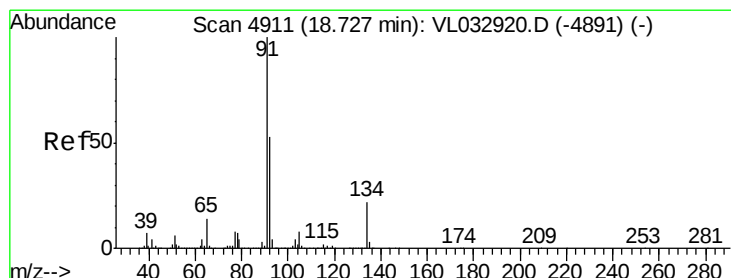
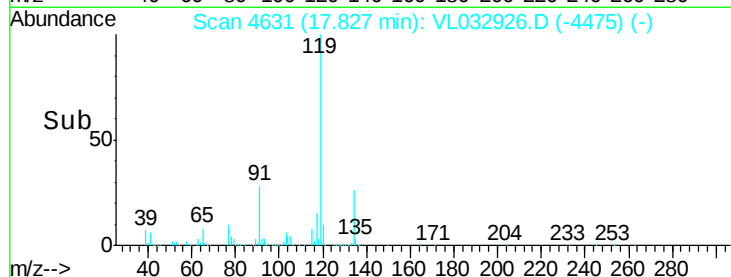
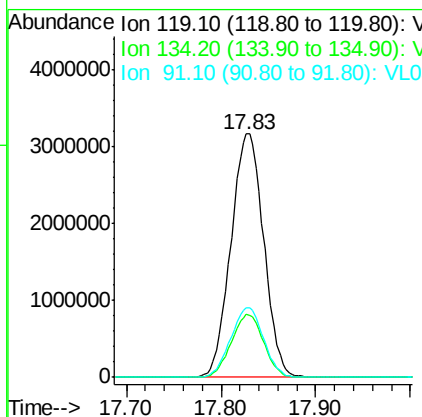
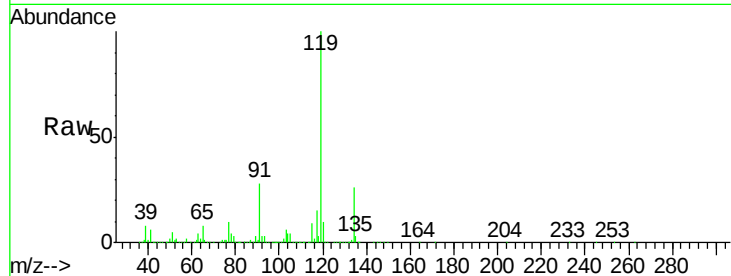
#69
p-Isopropyltoluene
Concen: 16.094 ppbv
RT: 17.83 min Scan# 4631
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 119 Resp: 7622720
Ion Ratio Lower Upper
119 100
134 25.5 20.2 30.2
91 28.6 22.9 34.3

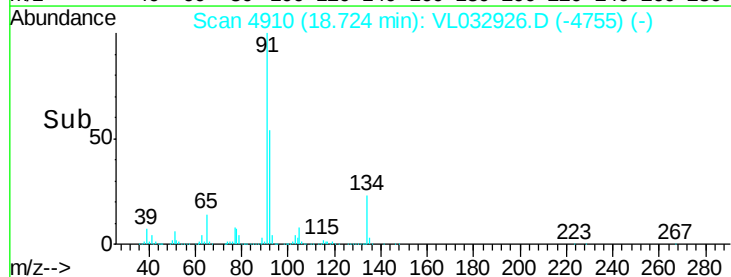
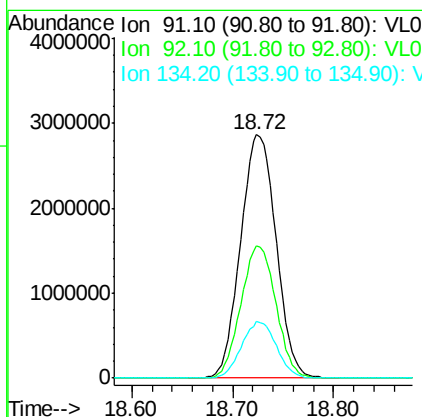
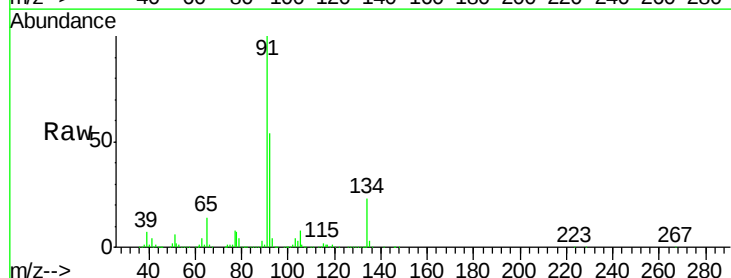
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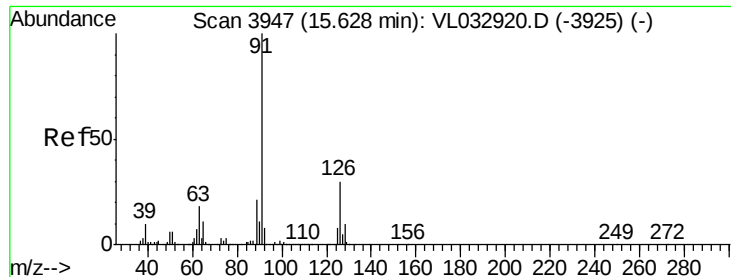
MMDadoda
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#70
n-Butylbenzene
Concen: 16.015 ppbv
RT: 18.72 min Scan# 4910
Delta R.T. -0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion: 91 Resp: 6985792
Ion Ratio Lower Upper
91 100
92 53.8 42.7 64.1
134 22.8 18.0 27.0





#71

2-Chlorotoluene

Concen: 16.699 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 5268088

Ion Ratio Lower Upper

91 100

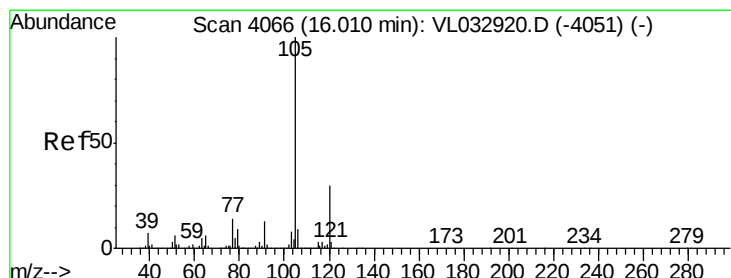
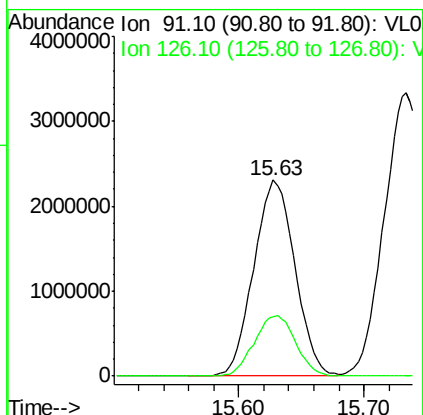
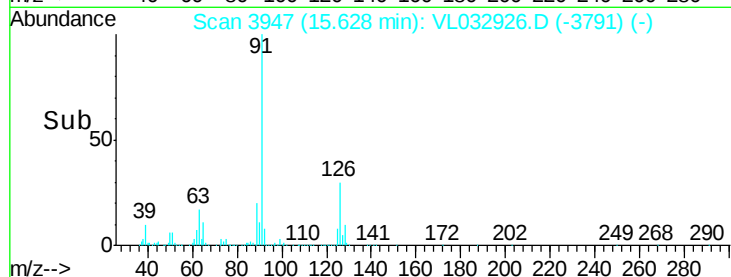
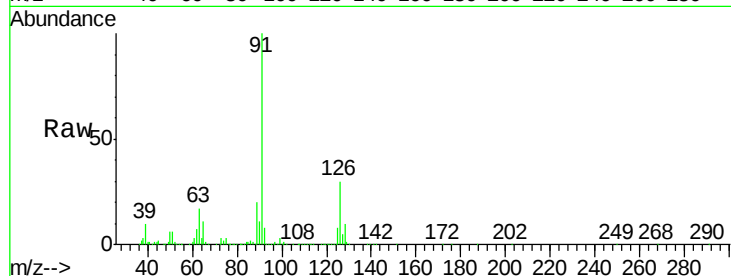
126 31.1 12.3 49.3

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#72

4-Ethyltoluene

Concen: 17.315 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Tgt Ion: 105 Resp: 5830627

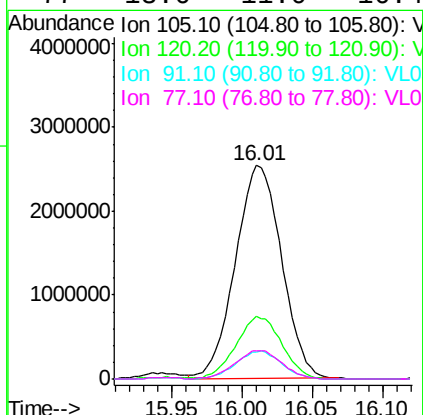
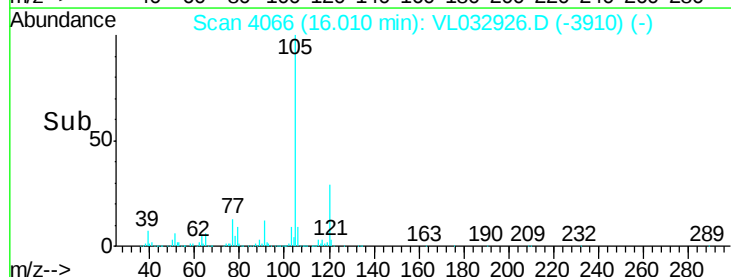
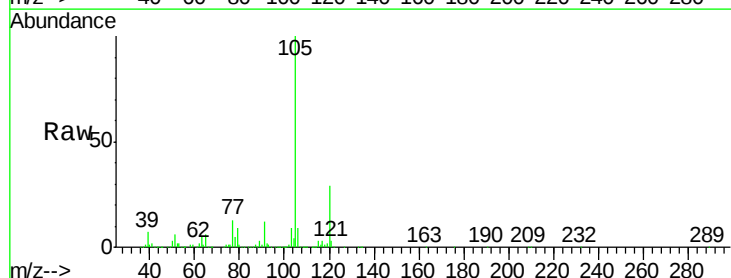
Ion Ratio Lower Upper

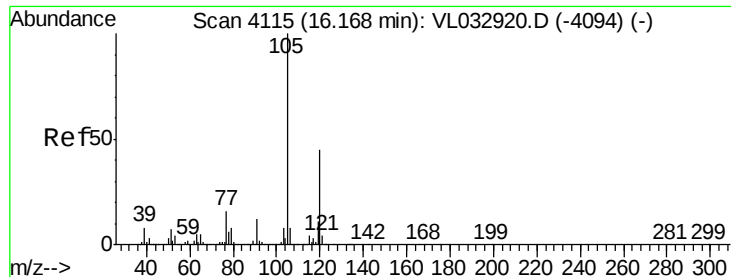
105 100

120 29.2 23.0 34.4

91 13.0 10.4 15.6

77 13.6 11.0 16.4





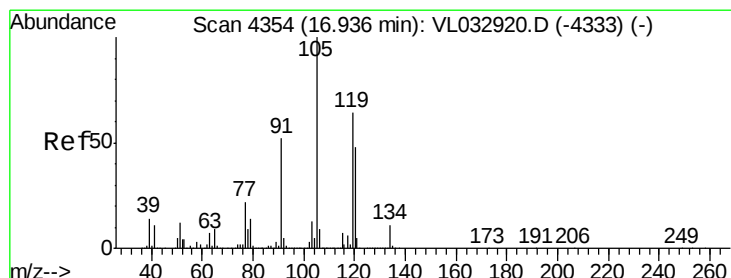
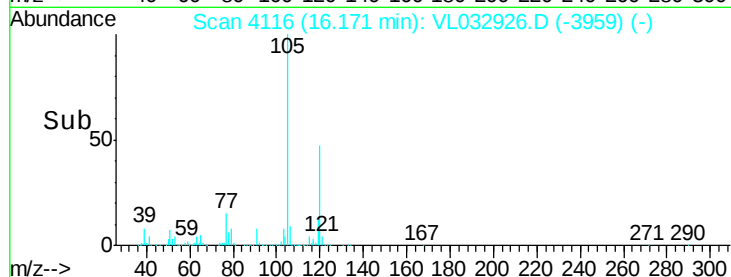
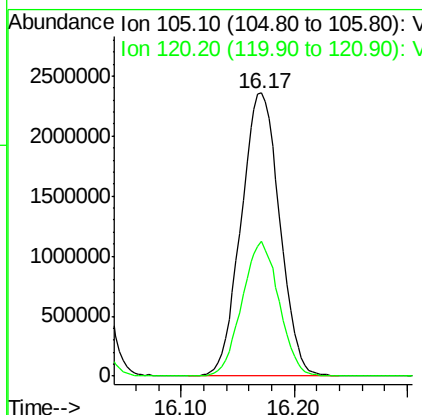
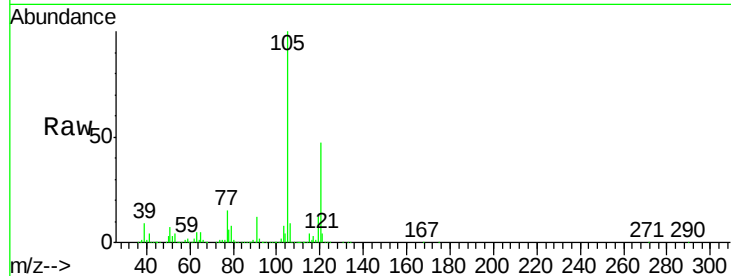
#73
 1,3,5-Trimethylbenzene
 Concen: 16.830 ppbv
 RT: 16.17 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:105 Resp: 5567835
 Ion Ratio Lower Upper
 105 100
 120 47.5 36.0 54.0

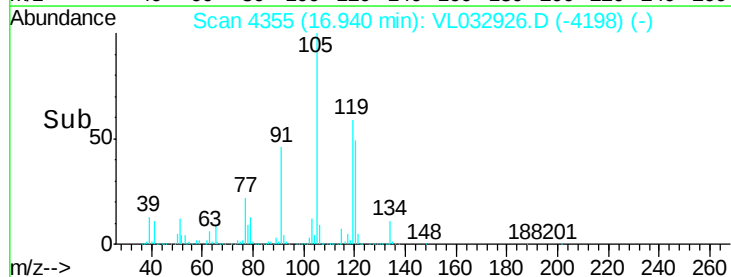
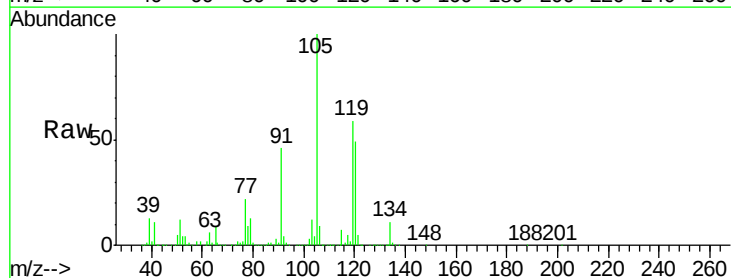
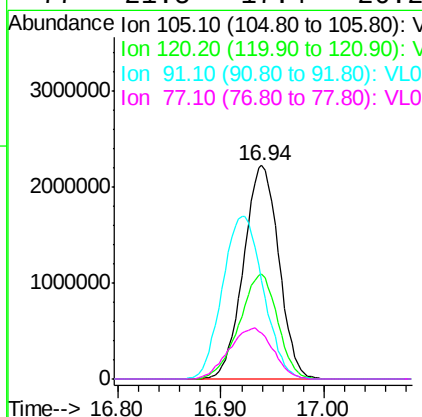
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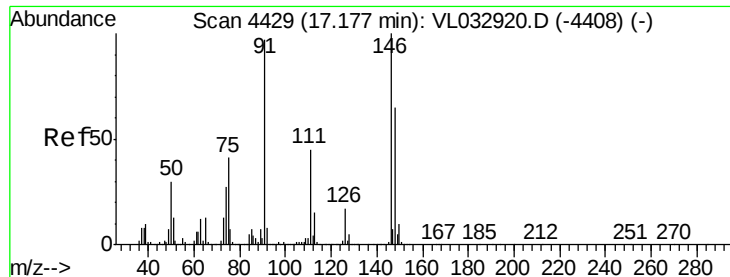
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#74
 1,2,4-Trimethylbenzene
 Concen: 13.521 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion:105 Resp: 5278021
 Ion Ratio Lower Upper
 105 100
 120 48.9 38.6 58.0
 91 46.1 41.7 62.5
 77 21.5 17.4 26.2





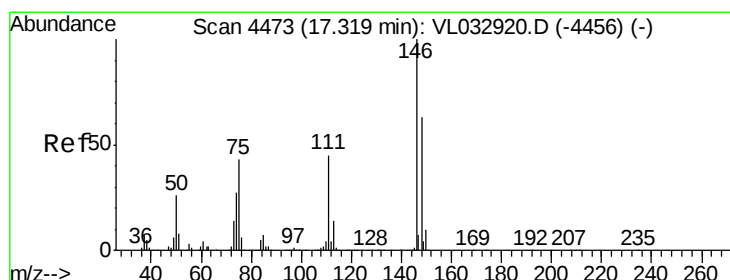
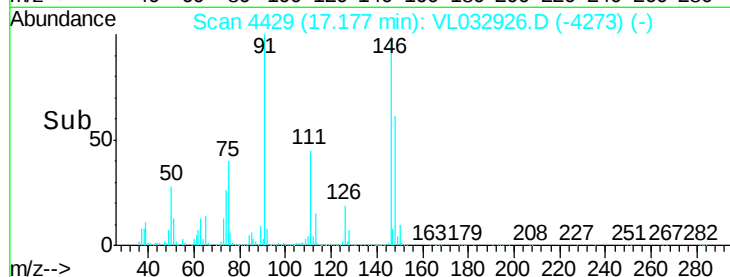
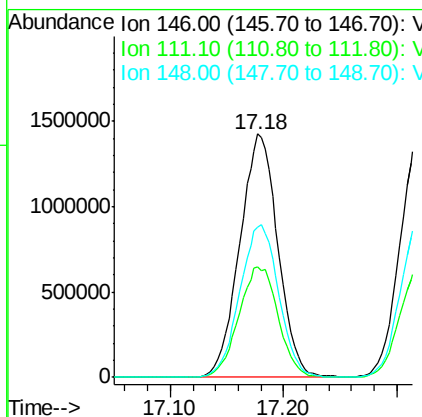
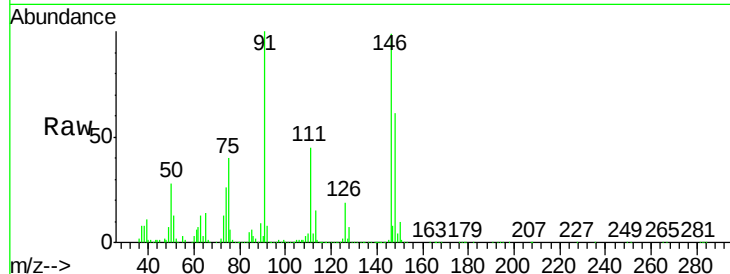
#75
 1,3-Dichlorobenzene
 Concen: 14.758 ppbv
 RT: 17.18 min Scan# 4429
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:146 Resp: 3336425
 Ion Ratio Lower Upper
 146 100
 111 47.1 23.6 70.8
 148 64.1 32.1 96.3

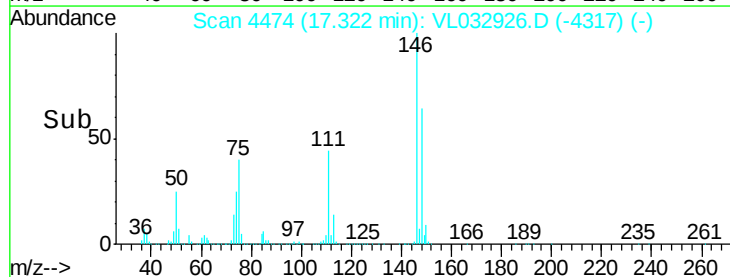
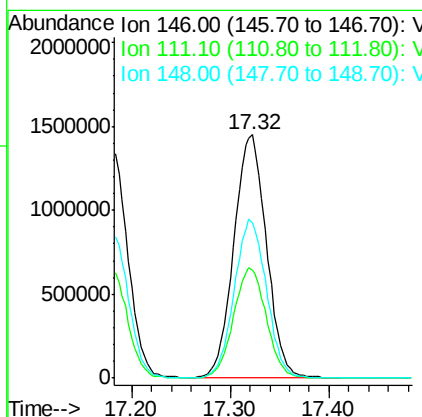
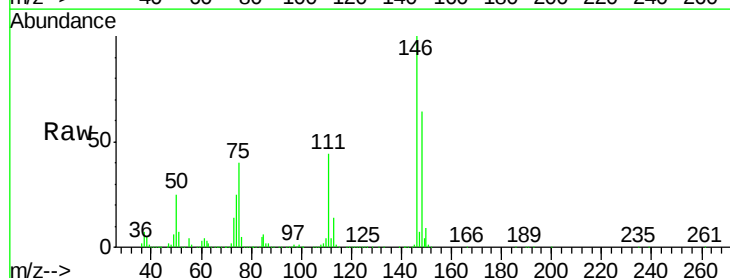
Manual Integrations
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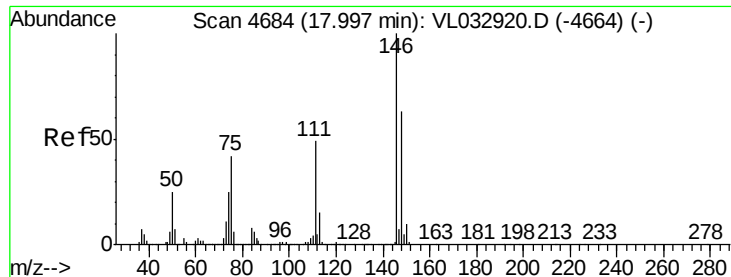
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#76
 1,4-Dichlorobenzene
 Concen: 16.035 ppbv
 RT: 17.32 min Scan# 4474
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Tgt Ion:146 Resp: 3325766
 Ion Ratio Lower Upper
 146 100
 111 45.4 22.8 68.4
 148 64.8 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 15.231 ppbv

RT: 18.00 min Scan# 4685

Delta R.T. 0.00 min

Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L

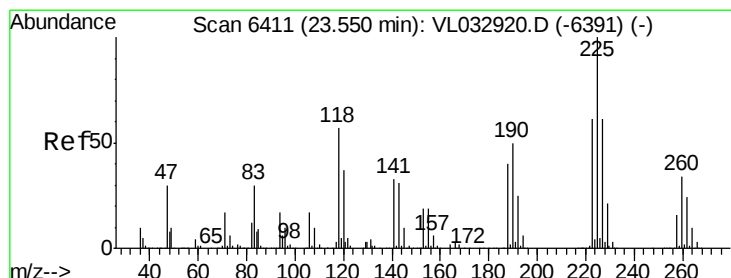
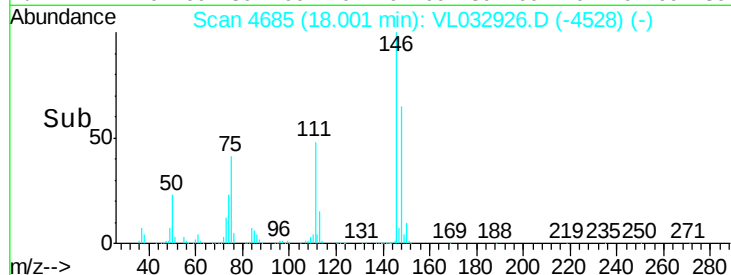
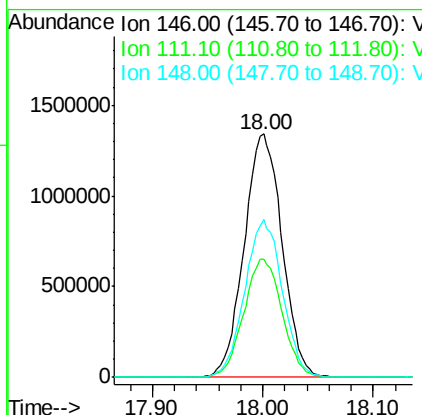
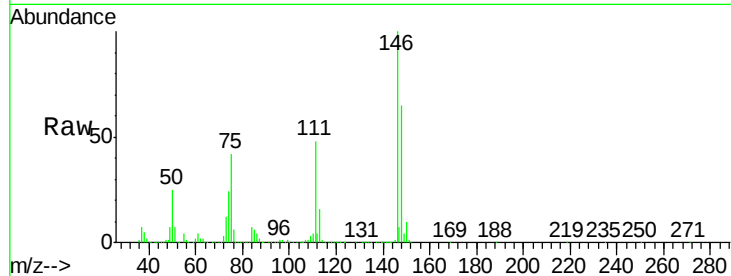
ClientSampleId :
VSTDIC015

Tgt Ion:146 Resp: 3195296

Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.3	72.9
148	64.3	32.0	96.2

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#78

Hexachloro-1,3-Butadiene

Concen: 16.119 ppbv

RT: 23.56 min Scan# 6413

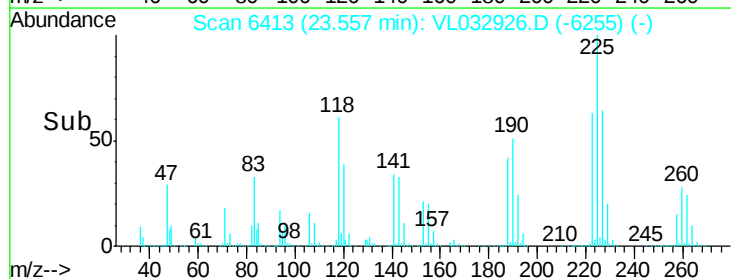
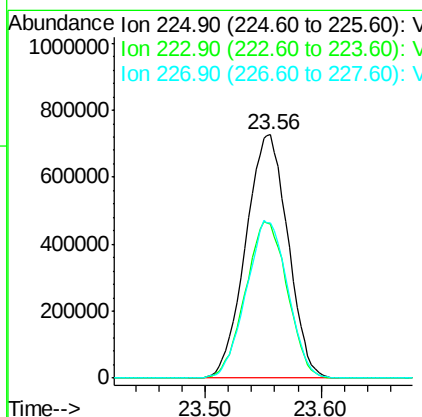
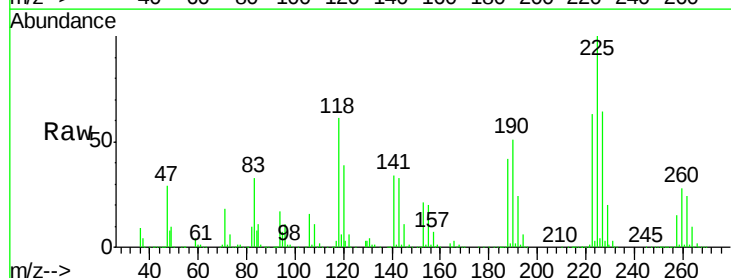
Delta R.T. 0.01 min

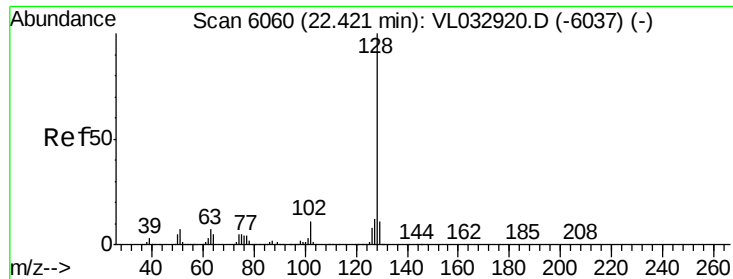
Lab File: VL032926.D

Acq: 7 Dec 2018 7:29

Tgt Ion:225 Resp: 1838027

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.6	75.8
227	63.9	50.4	75.6





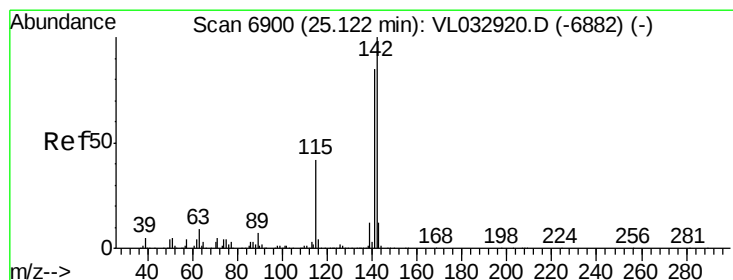
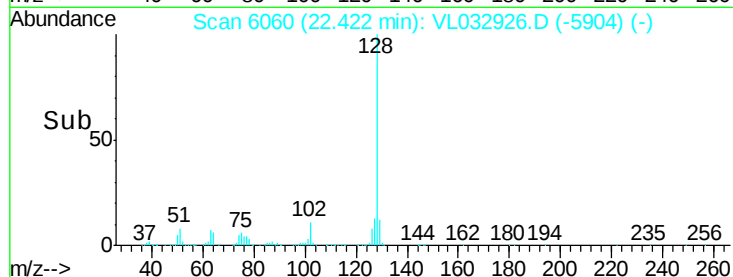
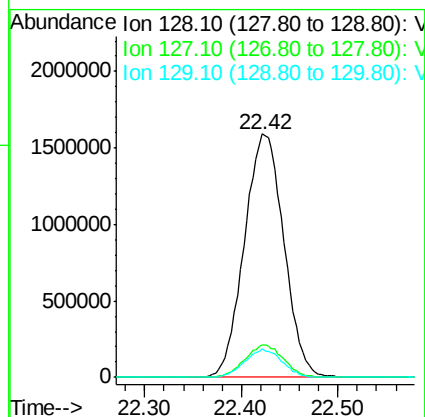
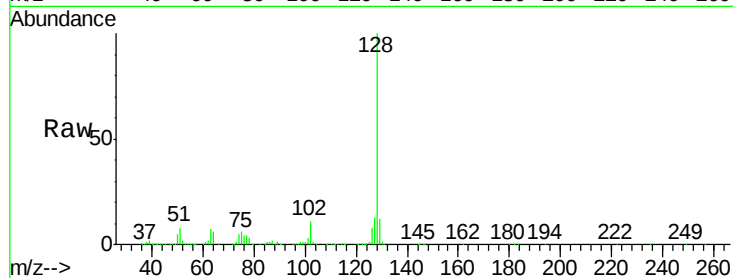
#79
Naphthalene
Concen: 19.301 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:128 Resp: 4510216
Ion Ratio Lower Upper
128 100
127 13.3 9.9 14.9
129 11.6 8.6 13.0

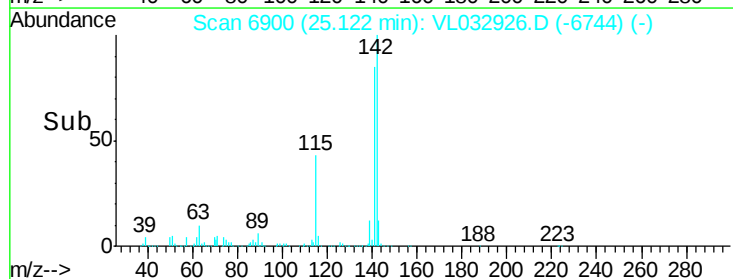
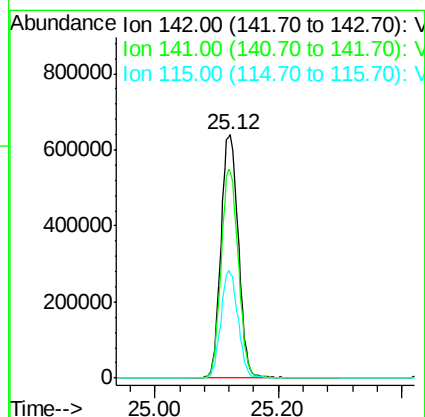
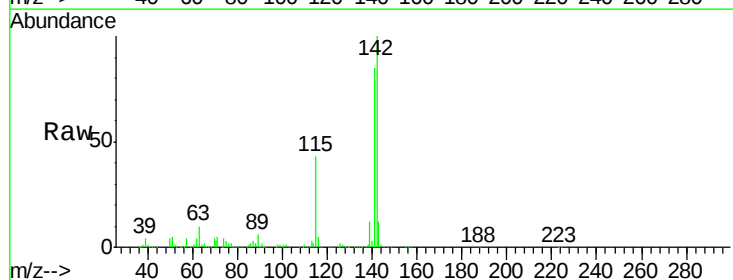
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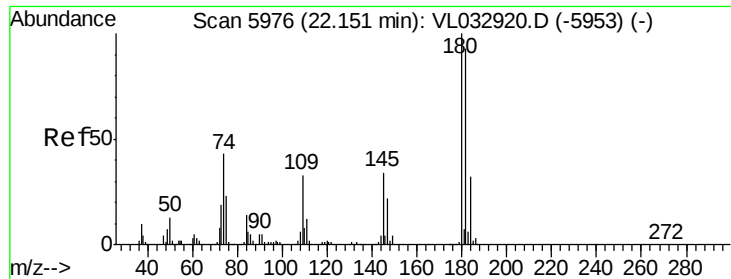
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#80
Naphthalene, 2-methyl-
Concen: 27.856 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.00 min
Lab File: VL032926.D
Acq: 7 Dec 2018 7:29

Tgt Ion:142 Resp: 1255361
Ion Ratio Lower Upper
142 100
141 84.5 68.2 102.2
115 43.4 35.1 52.7





#81
 1,2,4-Trichlorobenzene
 Concen: 17.805 ppbv
 RT: 22.15 min Scan# 5976
 Delta R.T. 0.00 min
 Lab File: VL032926.D
 Acq: 7 Dec 2018 7:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2249035
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.0 115.6
 184 30.4 24.3 36.5

Manual Integrations
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