

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032266.D
 Acq On : 18 Jul 2018 17:26
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVV071818

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:10 PM

Quant Time: Jul 19 02:03:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 14:38:53 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1723900	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3895410	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4528080	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3516216	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2586666	8.82	ppbv	100
3) Chlorodifluoromethane	3.06	51	1819711	9.41	ppbv	99
4) Chloromethane	3.22	50	1055321	9.26	ppbv	97
5) Vinyl Chloride	3.34	62	991406	9.18	ppbv	99
6) Bromomethane	3.57	94	551901	9.38	ppbv	94
7) Chloroethane	3.66	64	360421	9.41	ppbv	99
8) Dichlorotetrafluoroethane	3.27	85	2061313	8.62	ppbv	100
9) Propene	3.09	41	894144	10.57	ppbv	100
10) Heptane	8.33	43	2572589	9.57	ppbv	99
11) Trichlorofluoromethane	4.06	101	2026727	8.84	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1333962	9.13	ppbv	99
13) Ethanol	3.70	45	219693	9.09	ppbv	99
14) Bromoethene	3.85	108	638809	9.69	ppbv	98
15) Acetone	3.96	43	1622928	9.00	ppbv	99
16) 1,3-Butadiene	3.42	39	885549	9.64	ppbv	100
17) tert-Butyl alcohol	4.42	59	581620	10.22	ppbv	99
18) 1,1-Dichloroethene	4.42	96	634521	9.29	ppbv	99
19) Isopropyl Alcohol	4.08	45	1213946	9.95	ppbv	99
20) Methylene Chloride	4.47	84	572033	8.24	ppbv	96
21) Allyl Chloride	4.54	41	1162384	9.78	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	668530	9.43	ppbv	99
23) Vinyl Acetate	5.23	43	3304000	10.21	ppbv	99
24) 1,1-Dichloroethane	5.16	63	2153177	9.17	ppbv	99
25) Ethyl Acetate	5.85	43	3715235	9.45	ppbv	100
26) Hexane	5.86	57	1703844	9.44	ppbv	100
27) Carbon Disulfide	4.69	76	1621558	10.15	ppbv	99
28) Methyl tert-Butyl Ether	5.18	73	2655273	9.92	ppbv	99
29) Chloroform	5.93	83	2444087	9.18	ppbv	95
30) Cyclohexane	7.33	84	1528952	10.10	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1744073	10.08	ppbv	99
32) 1,1,1-Trichloroethane	6.70	97	2431725	9.03	ppbv	99
34) 2-Butanone	5.40	43	2635199	9.86	ppbv	100
35) Carbon Tetrachloride	7.22	117	2526488	9.43	ppbv	96
36) Benzene	7.09	78	3723916	9.71	ppbv	99
37) 1,2-Dichloroethane	6.49	62	1977001	8.73	ppbv	100
38) Trichloroethene	8.05	130	1215531	9.58	ppbv	98
39) 1,2-Dichloropropane	7.82	63	1505649	9.92	ppbv	97
40) 1,4-Dioxane	8.04	88	461910	10.30	ppbv #	15
41) Tetrahydrofuran	6.22	42	1562324	10.02	ppbv	99
42) Bromodichloromethane	8.00	83	2846445	9.98	ppbv	98
43) Methyl Methacrylate	8.22	69	1588289	10.11	ppbv	99

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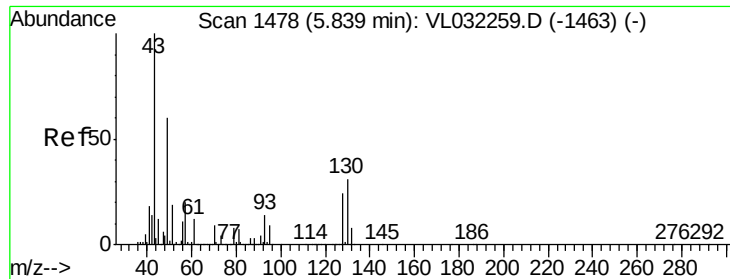
Manual Integrations
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Quant Time: Jul 19 02:03:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6425483	9.61	ppbv	100
45) t-1,3-Dichloropropene	9.50	75	2036933	11.00	ppbv	98
46) cis-1,3-Dichloropropene	8.92	75	2394800	10.14	ppbv	100
47) 1,1,2-Trichloroethane	9.71	97	1653164	10.08	ppbv	98
48) Dibromochloromethane	10.55	129	2121872	8.87	ppbv	99
49) Bromoform	13.30	173	2066781	9.90	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	4083005	9.28	ppbv	100
51) 2-Hexanone	10.36	43	3092163	9.22	ppbv #	100
52) Tetrachloroethene	11.46	164	1177698	8.99	ppbv	97
53) Toluene	10.04	91	4678409	10.06	ppbv	100
54) 1,2-Dibromoethane	10.85	107	2100934	8.68	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.38	131	1840630	9.13	ppbv #	59
57) Chlorobenzene	12.39	112	3342282	9.00	ppbv	100
58) Ethyl Benzene	12.96	91	6326503	9.91	ppbv	98
59) m/p-Xylene	13.24	91	10055512m	18.47	ppbv	
60) o-Xylene	13.94	91	4868326	8.98	ppbv	99
61) Styrene	13.78	104	3993502	9.92	ppbv	100
62) Isopropylbenzene	14.92	105	6959673	8.96	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.93	83	3597473	7.78	ppbv	100
64) n-propylbenzene	15.81	120	1806582	9.05	ppbv	98
65) tert-Butylbenzene	17.00	119	5631025	8.50	ppbv	100
66) Benzyl Chloride	17.25	91	3836064	10.29	ppbv	100
67) sec-Butylbenzene	17.55	105	8453235	8.56	ppbv	100
69) p-Isopropyltoluene	17.91	119	6761555	8.86	ppbv	100
70) n-Butylbenzene	18.81	91	7531898	8.85	ppbv	100
71) 2-Chlorotoluene	15.71	91	5583087	8.96	ppbv	99
72) 4-Ethyltoluene	16.09	105	5778437	9.23	ppbv	100
73) 1,3,5-Trimethylbenzene	16.25	105	5460618	8.92	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	5362235	8.37	ppbv	95
75) 1,3-Dichlorobenzene	17.26	146	2918103	8.19	ppbv	100
76) 1,4-Dichlorobenzene	17.40	146	2977152	8.43	ppbv	99
77) 1,2-Dichlorobenzene	18.08	146	2917555	8.47	ppbv	100
78) Hexachloro-1,3-Butadiene	23.63	225	1787817	16.02	ppbv	100
79) Naphthalene	22.52	128	5109026	9.49	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2523090	11.03	ppbv	100
81) 1,2,4-Trichlorobenzene	22.25	180	2417447	9.21	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.00 min

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ClientSampleId :

ICVVL071818

Tot Ion: 49 Resp: 1723900

Ion Ratio Lower Upper

49 100

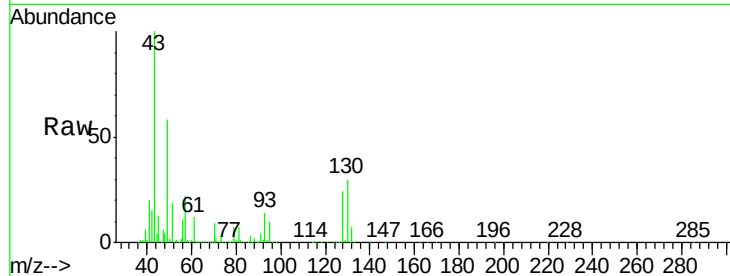
128 39.8 20.1 60.2

130 51.2 25.9 77.6

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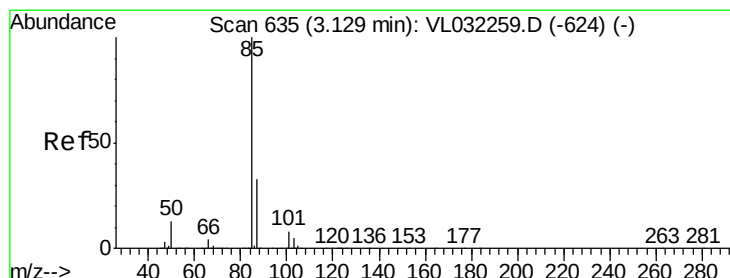
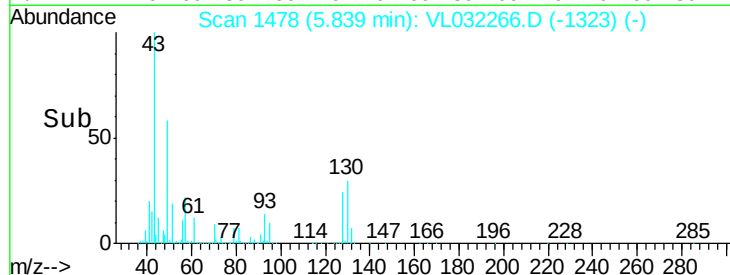
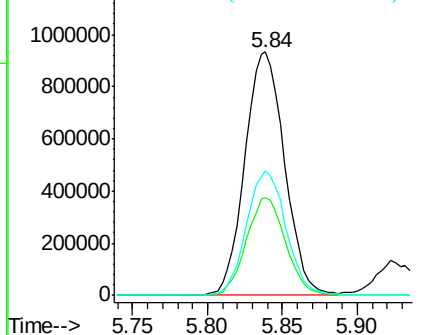
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.82 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032266.D

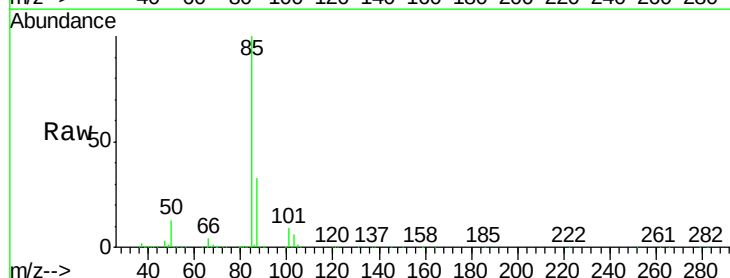
Acq: 18 Jul 2018 17:26

Tgt Ion: 85 Resp: 2586666

Ion Ratio Lower Upper

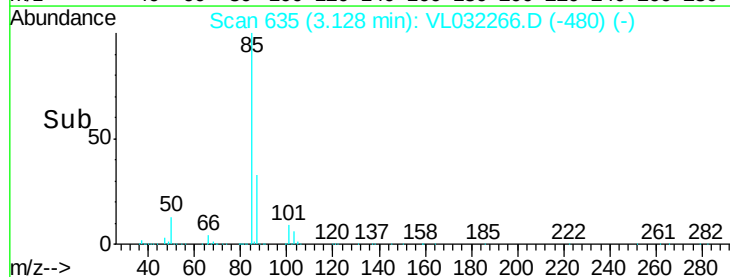
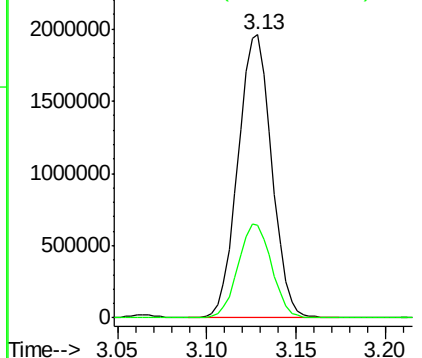
85 100

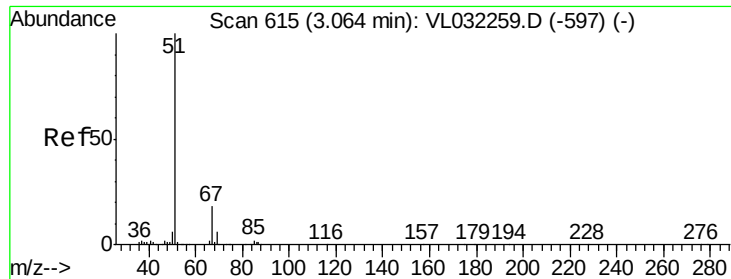
87 32.9 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.41 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tot Ion: 51 Resp: 1819711

Ion Ratio Lower Upper

51 100

67 17.3 14.2 21.4

Instrument :

MSVOA_L

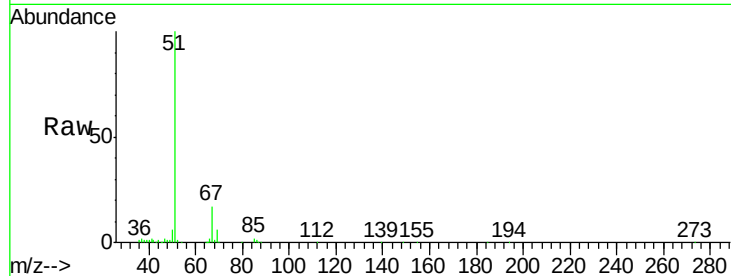
ClientSampleId :

ICVVL071818

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

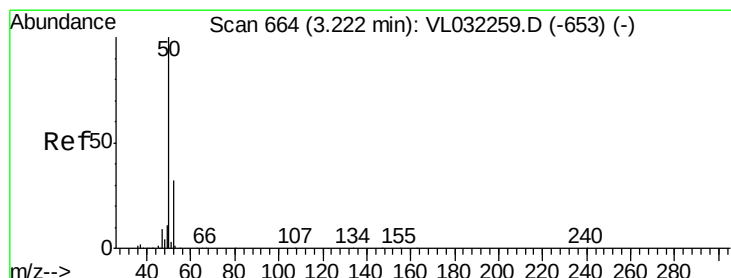
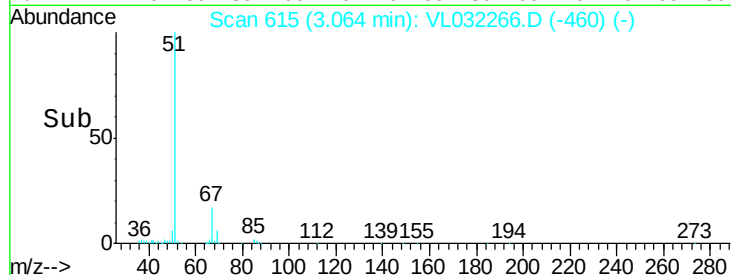
1500000

1000000

500000

0

Time-->



#4

Chloromethane

Concen: 9.26 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032266.D

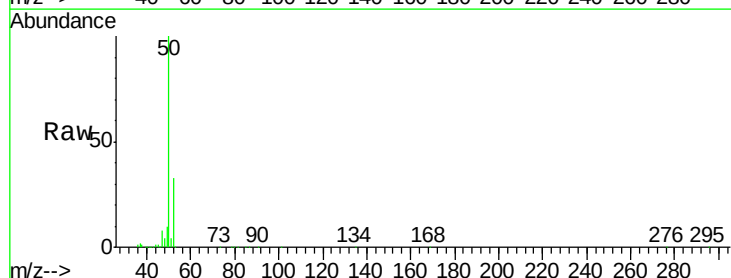
Acq: 18 Jul 2018 17:26

Tgt Ion: 50 Resp: 1055321

Ion Ratio Lower Upper

50 100

52 33.2 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

800000

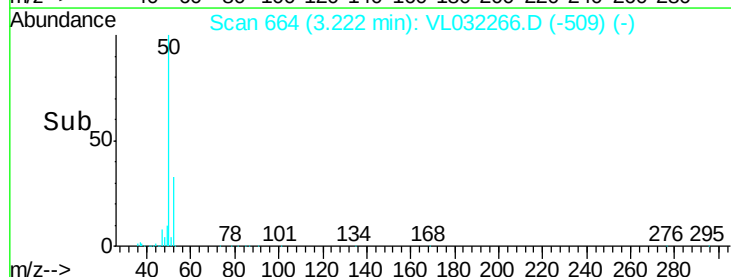
600000

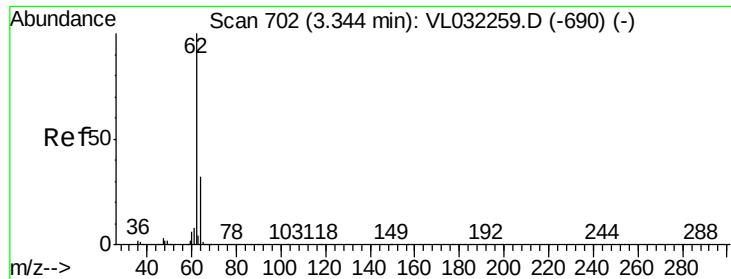
400000

200000

0

Time-->





#5

Vinyl Chloride

Concen: 9.18 ppbv

RT: 3.34 min Scan# 702

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 62 Resp: 991406

Ion Ratio Lower Upper

62 100

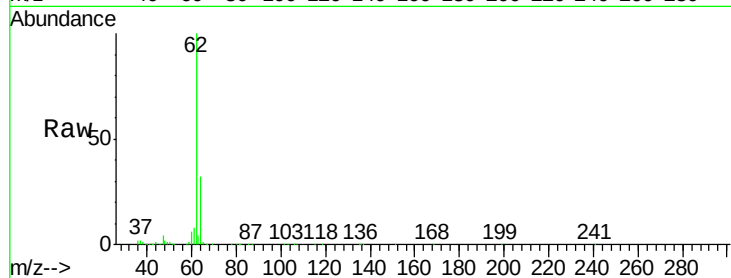
64 32.1 25.3 37.9

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

3.34

800000

600000

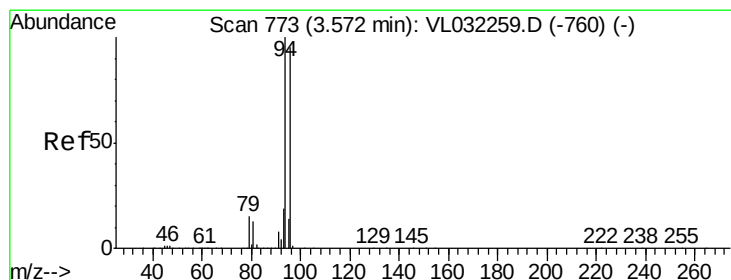
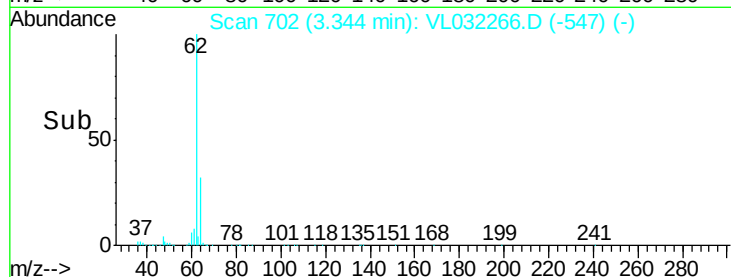
400000

200000

0

3.30 3.35 3.40

Time-->



#6

Bromomethane

Concen: 9.38 ppbv

RT: 3.57 min Scan# 772

Delta R.T. -0.00 min

Lab File: VL032266.D

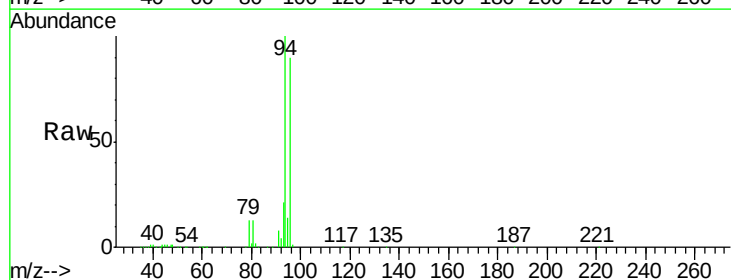
Acq: 18 Jul 2018 17:26

Tgt Ion: 94 Resp: 551901

Ion Ratio Lower Upper

94 100

96 89.7 76.1 114.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.57

400000

300000

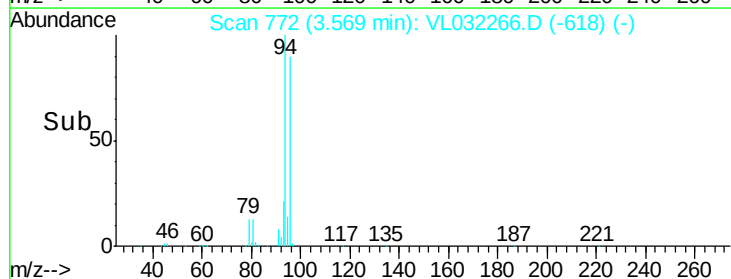
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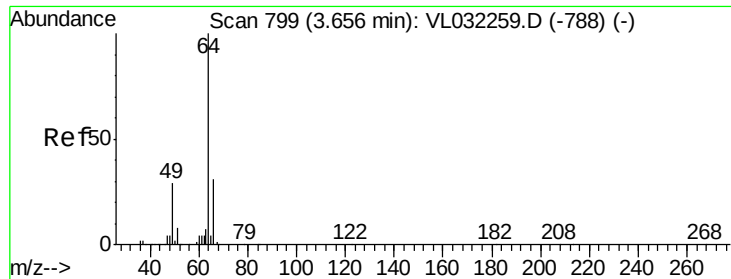
100000

0

3.50 3.55 3.60

Time-->





#7

Chloroethane

Concen: 9.41 ppbv

RT: 3.66 min Scan# 800

Delta R.T. 0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 64 Resp: 360421

Ion Ratio Lower Upper

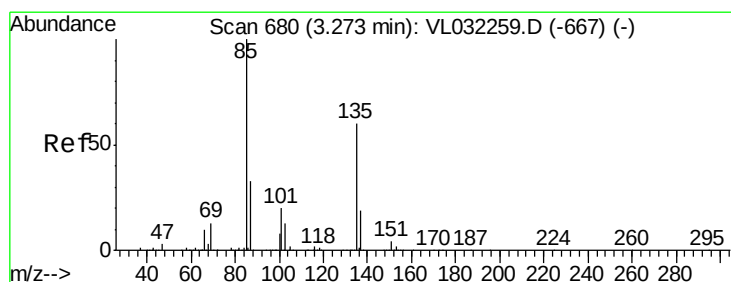
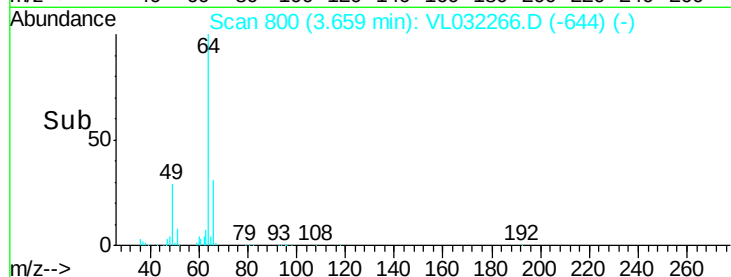
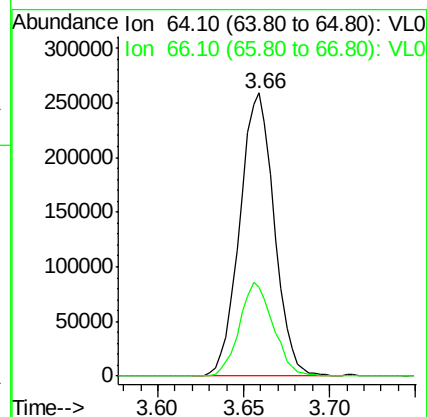
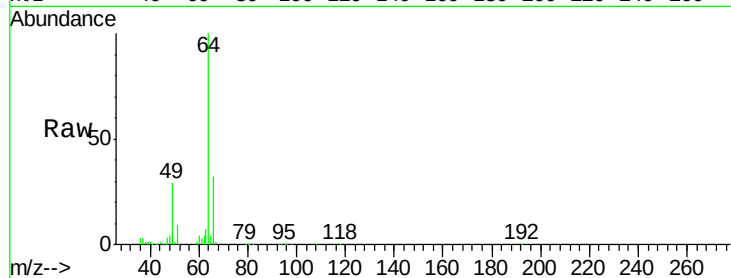
64 100

66 31.6 25.0 37.4

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 8.62 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032266.D

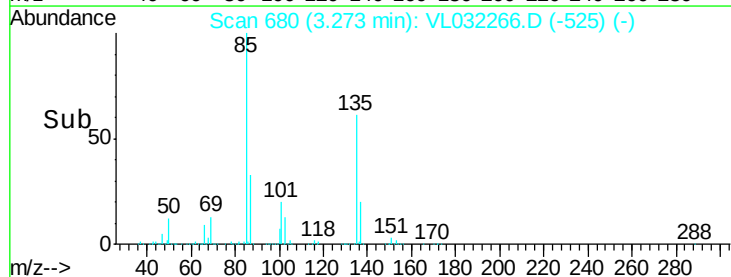
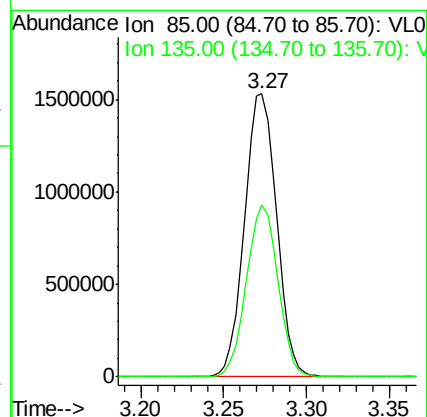
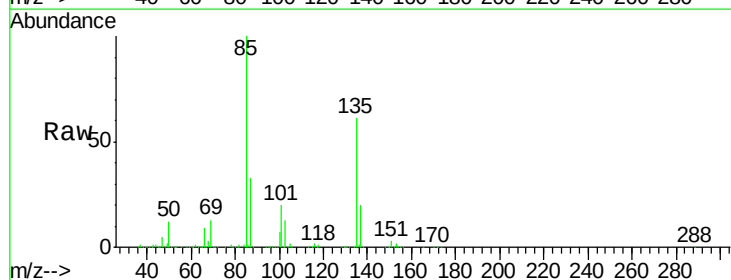
Acq: 18 Jul 2018 17:26

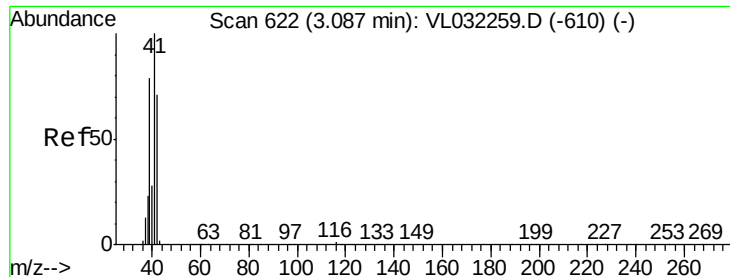
Tgt Ion: 85 Resp: 2061313

Ion Ratio Lower Upper

85 100

135 60.0 47.8 71.8





#9

Propene

Concen: 10.57 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

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ClientSampleId :

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Tot Ion: 41 Resp: 894144

Ion Ratio Lower Upper

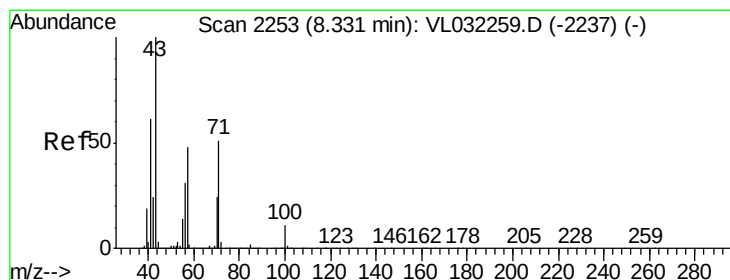
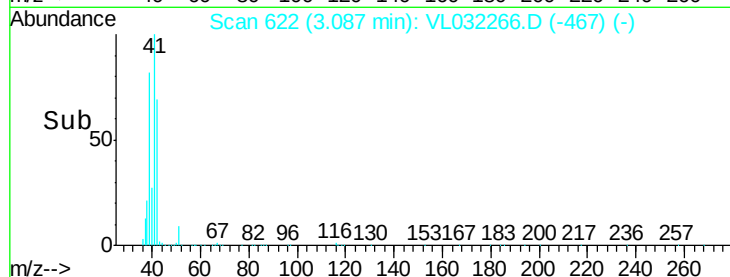
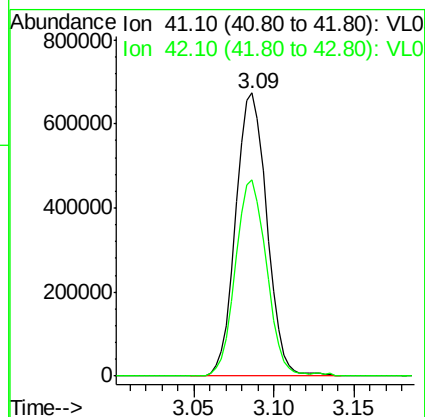
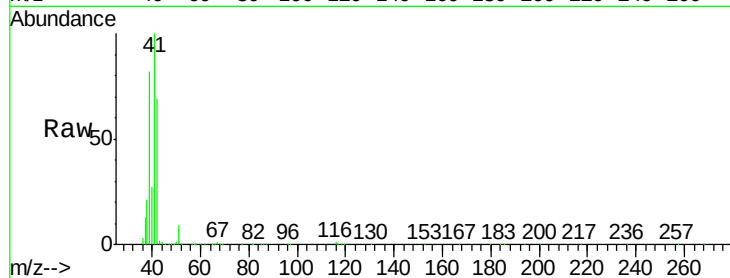
41 100

42 70.0 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 9.57 ppbv

RT: 8.33 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VL032266.D

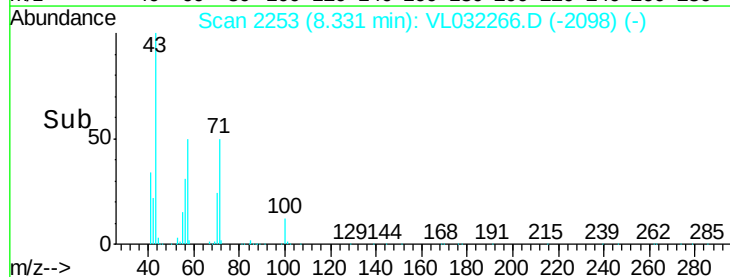
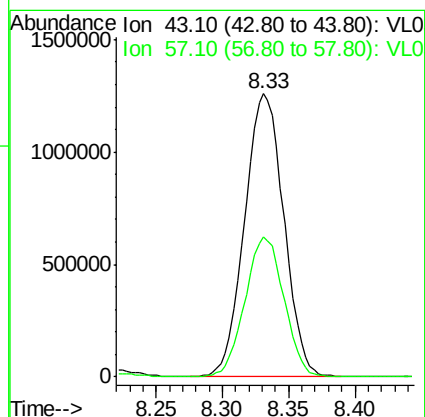
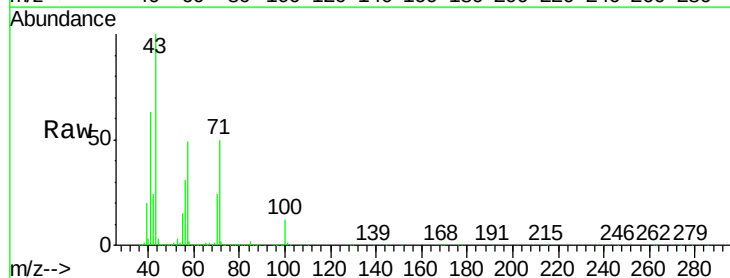
Acq: 18 Jul 2018 17:26

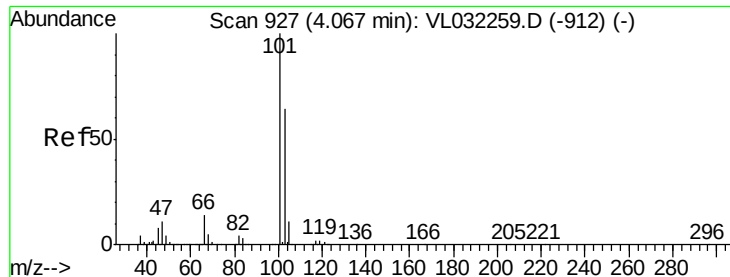
Tgt Ion: 43 Resp: 2572589

Ion Ratio Lower Upper

43 100

57 49.5 39.9 59.9





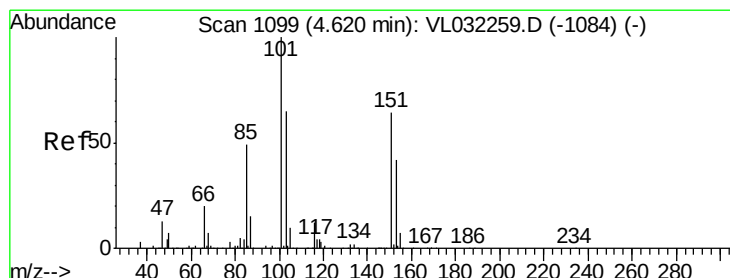
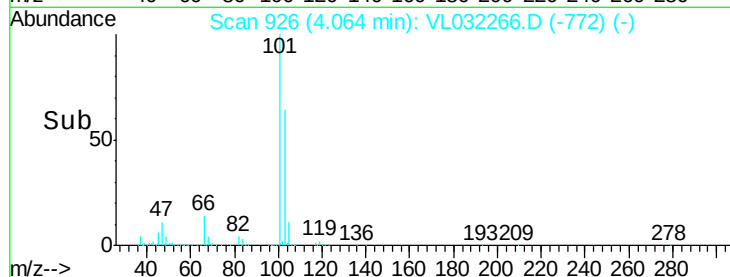
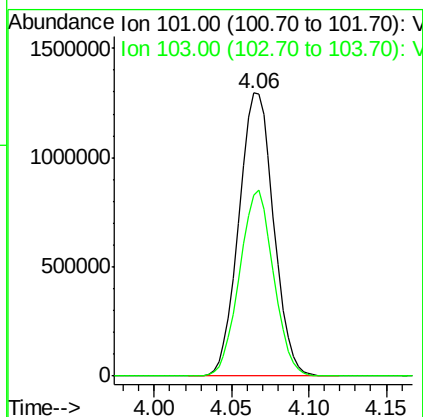
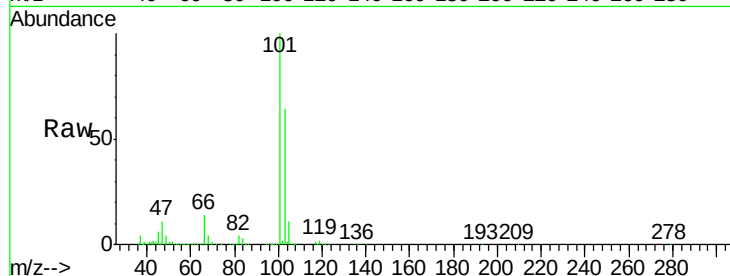
#11
 Trichlorofluoromethane
 Concen: 8.84 ppbv
 RT: 4.06 min Scan# 926
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion:101 Resp: 2026727
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.5 77.3

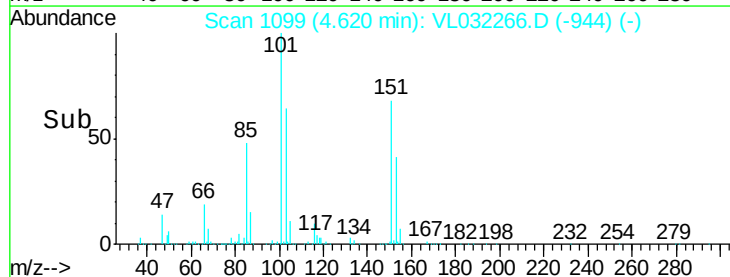
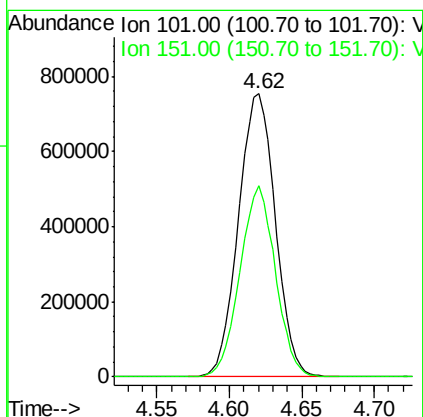
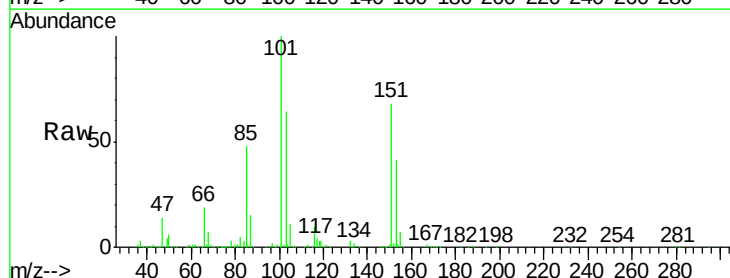
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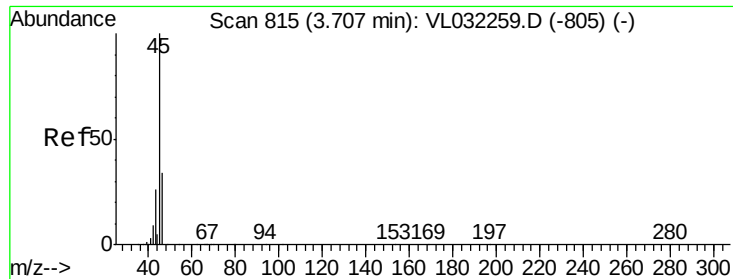
MMDadoda
 7/20/2018 2:53:10 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.13 ppbv
 RT: 4.62 min Scan# 1099
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion:101 Resp: 1333962
 Ion Ratio Lower Upper
 101 100
 151 65.2 51.3 76.9





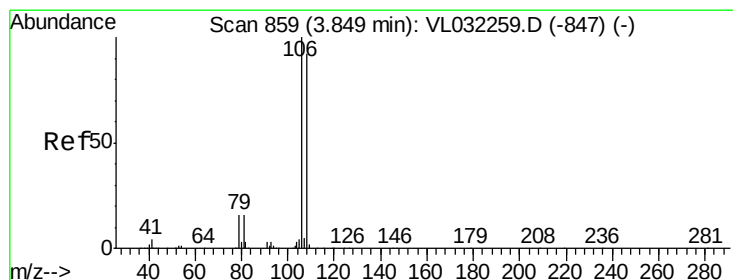
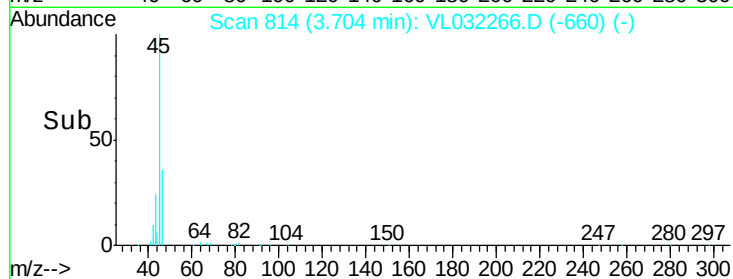
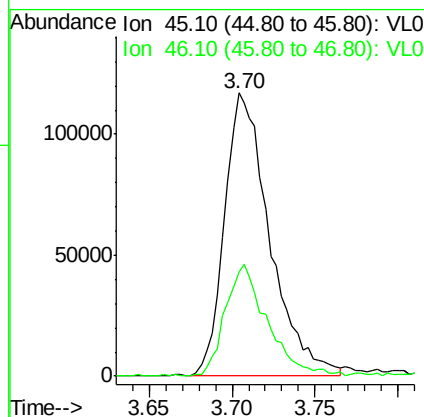
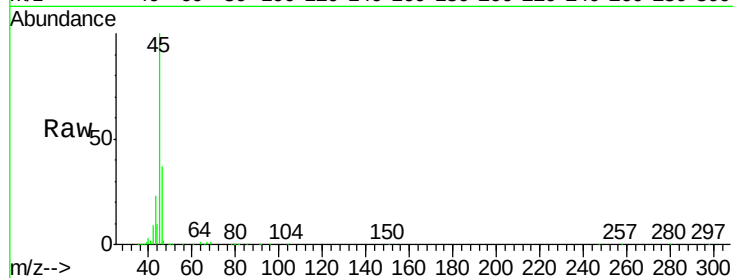
#13
Ethanol
Concen: 9.09 ppbv
RT: 3.70 min Scan# 814
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion: 45 Resp: 219693
Ion Ratio Lower Upper
45 100
46 37.2 15.2 60.8

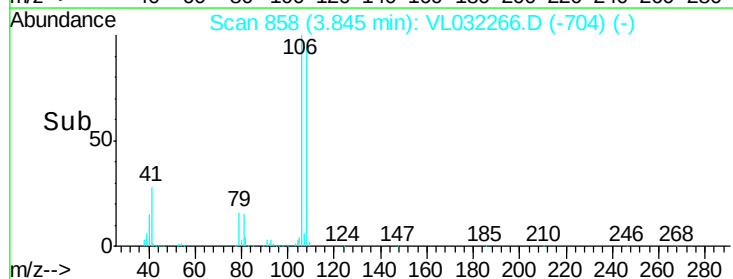
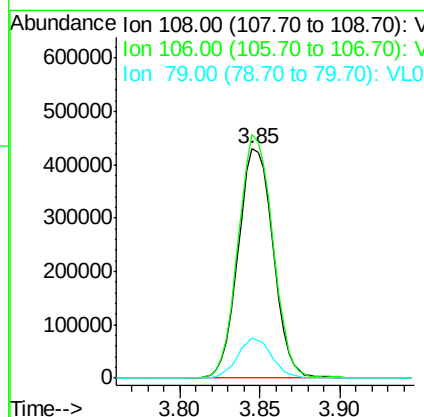
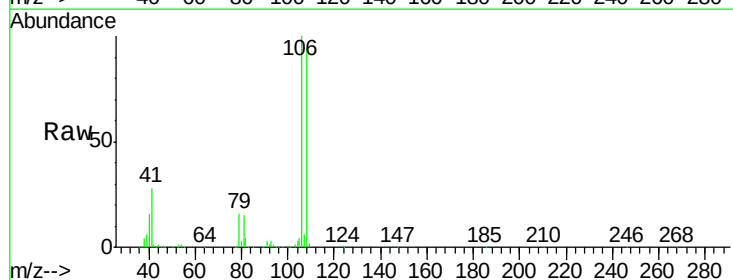
Manual Integrations
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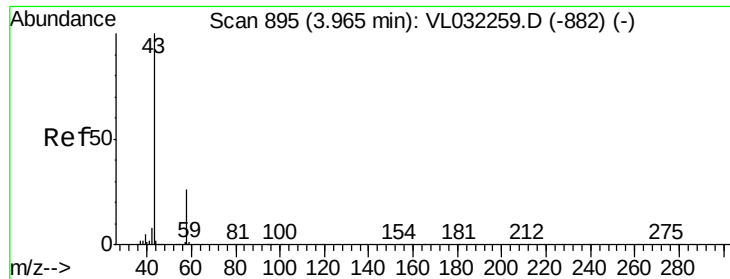
MMDadoda
7/20/2018 2:53:10 PM



#14
Bromoethene
Concen: 9.69 ppbv
RT: 3.85 min Scan# 858
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 108 Resp: 638809
Ion Ratio Lower Upper
108 100
106 105.5 86.2 129.4
79 17.4 14.0 21.0





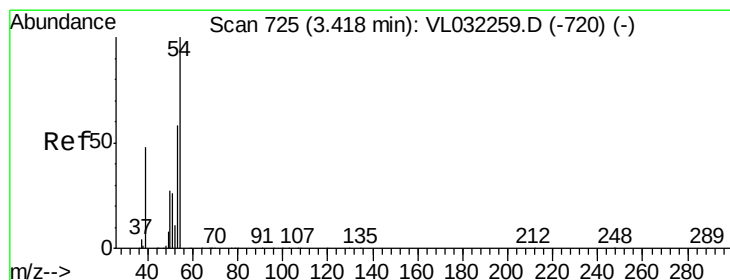
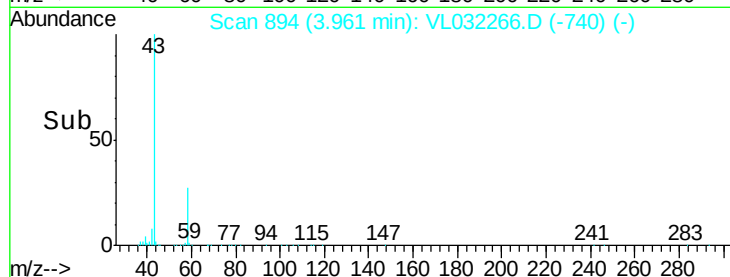
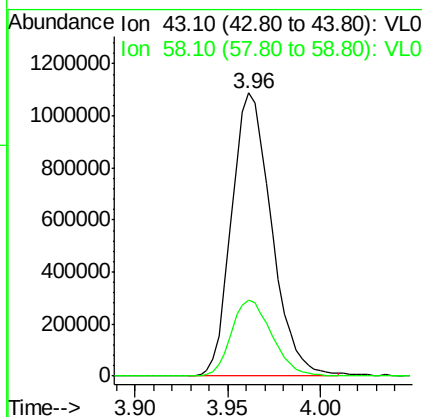
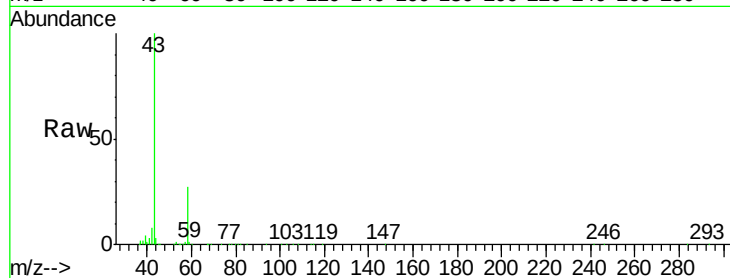
#15
Acetone
Concen: 9.00 ppbv
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion: 43 Resp: 1622928
Ion Ratio Lower Upper
43 100
58 27.7 21.8 32.6

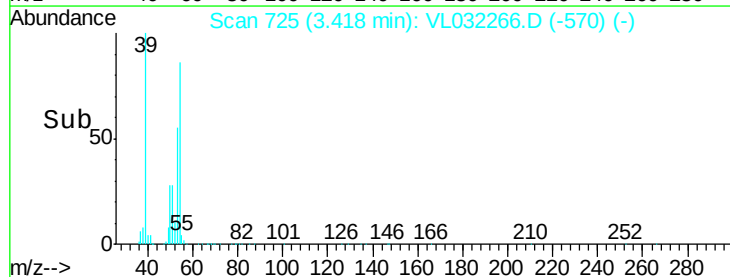
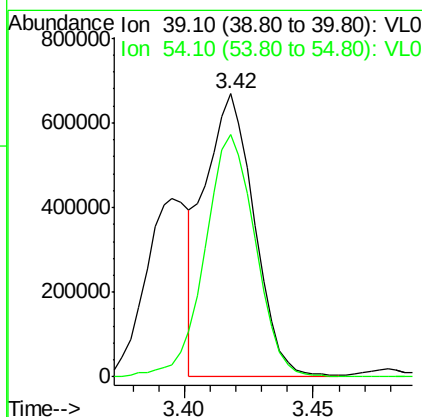
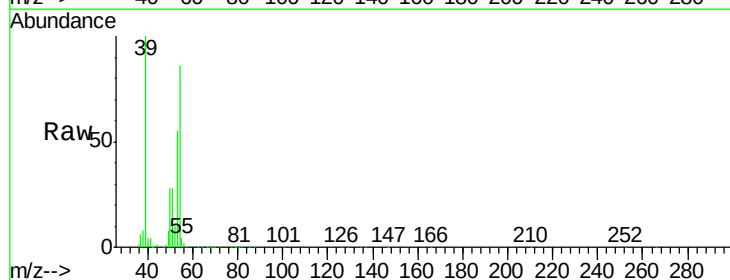
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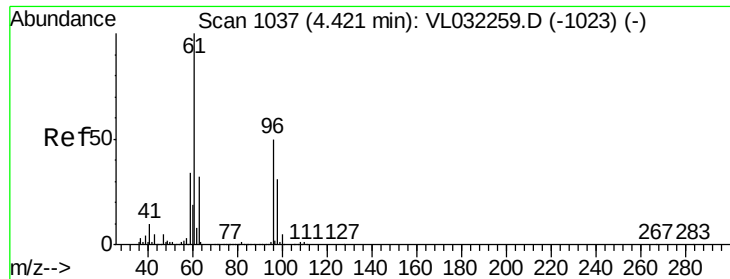
MMDadoda
7/20/2018 2:53:10 PM



#16
1,3-Butadiene
Concen: 9.64 ppbv
RT: 3.42 min Scan# 725
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 39 Resp: 885549
Ion Ratio Lower Upper
39 100
54 88.0 70.6 105.8





#17

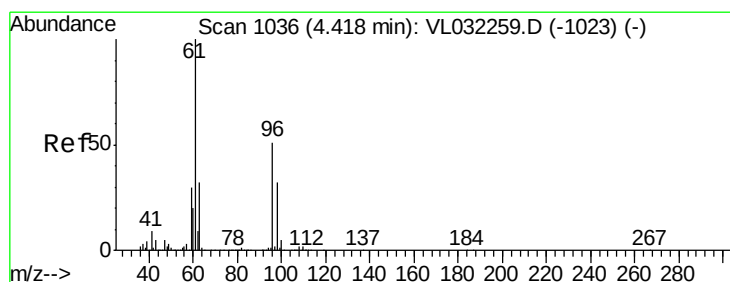
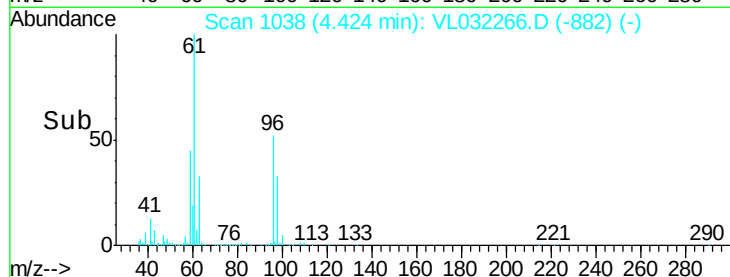
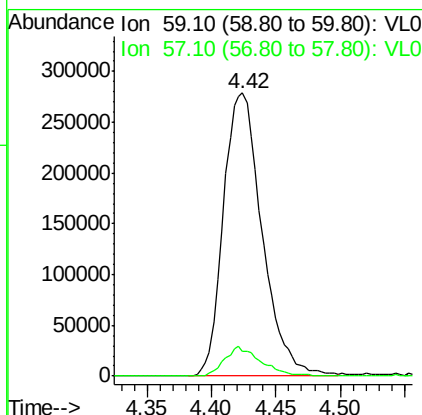
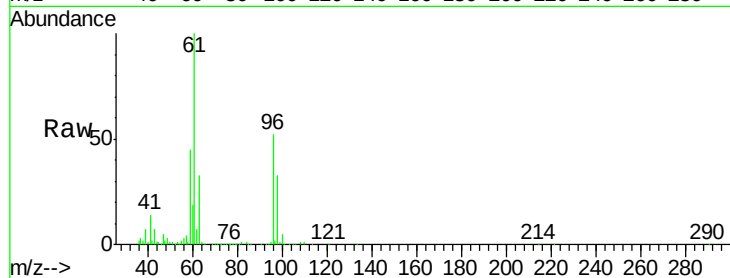
tert-Butyl alcohol
Concen: 10.22 ppbv
RT: 4.42 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.2	12.4

Manual Integrations
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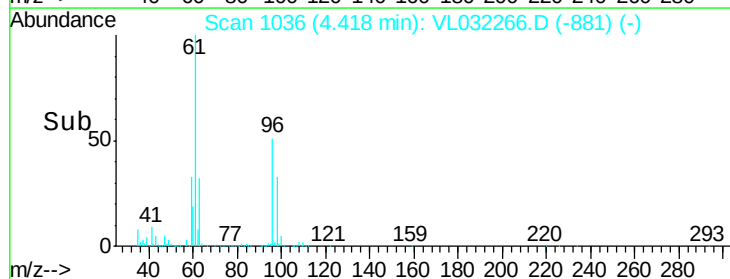
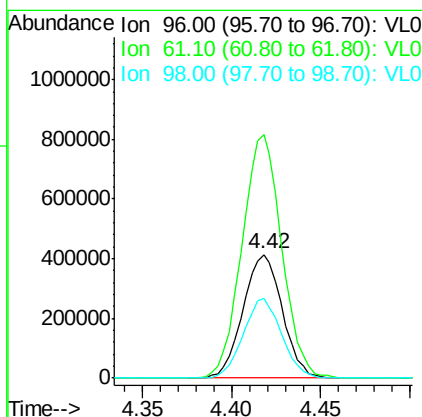
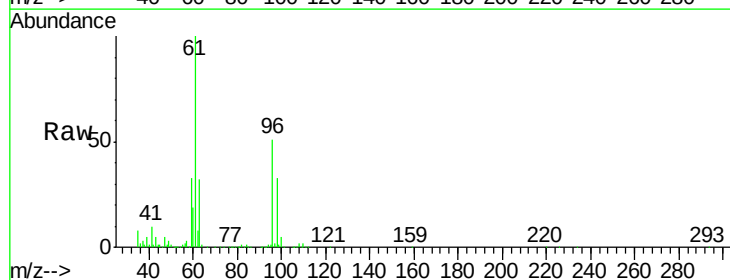
MMDadoda
7/20/2018 2:53:10 PM

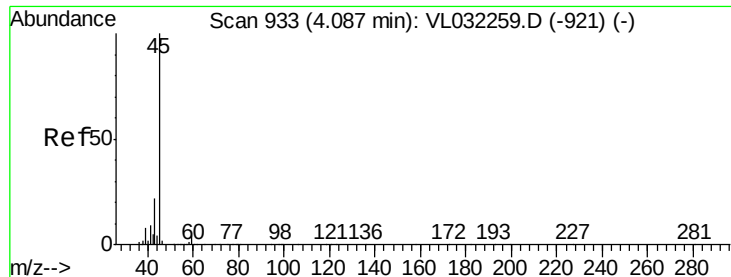


#18

1,1-Dichloroethene
Concen: 9.29 ppbv
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	197.0	157.2	235.8
98	64.4	50.1	75.1





#19

Isopropyl Alcohol

Concen: 9.95 ppbv

RT: 4.08 min Scan# 932

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 45 Resp: 1213946

Ion Ratio Lower Upper

45 100

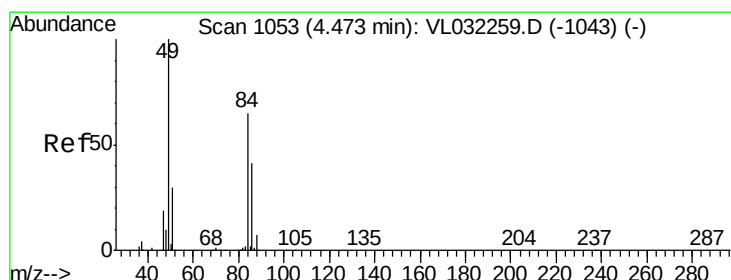
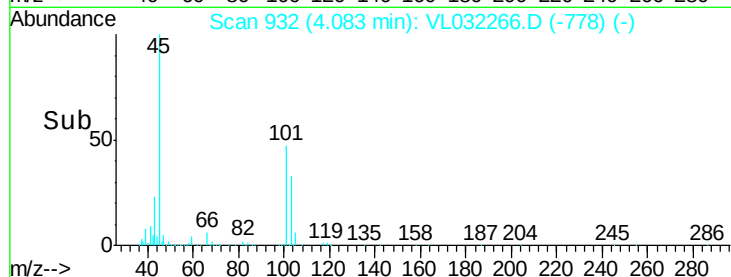
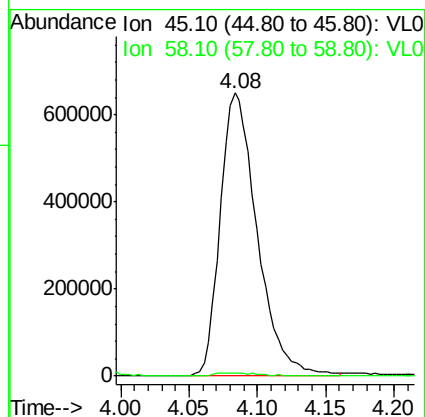
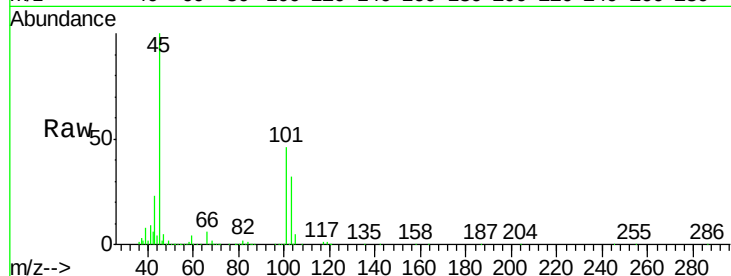
58 1.6 1.5 2.3

Manual Integrations

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#20

Methylene Chloride

Concen: 8.24 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion: 84 Resp: 572033

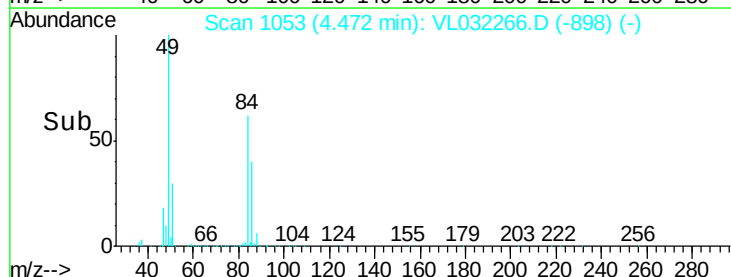
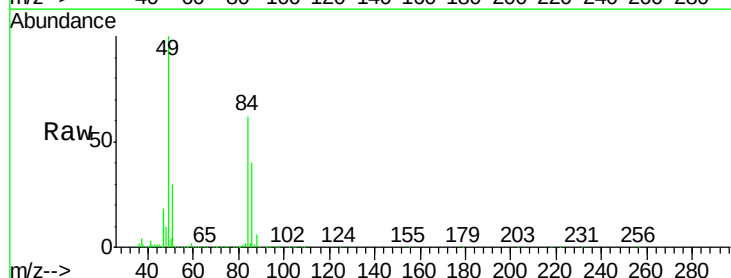
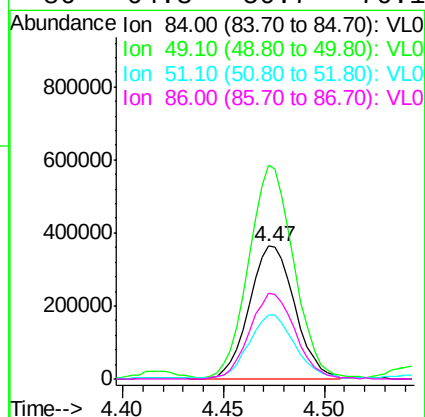
Ion Ratio Lower Upper

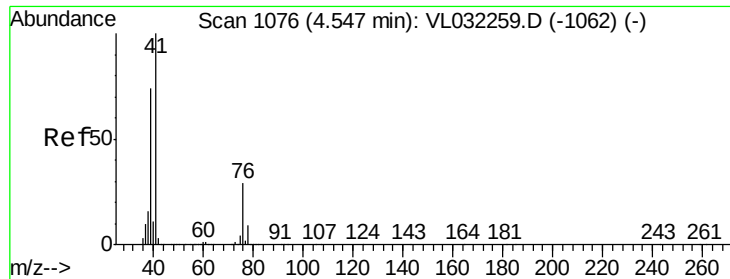
84 100

49 159.1 122.4 183.6

51 47.8 36.8 55.2

86 64.3 50.7 76.1





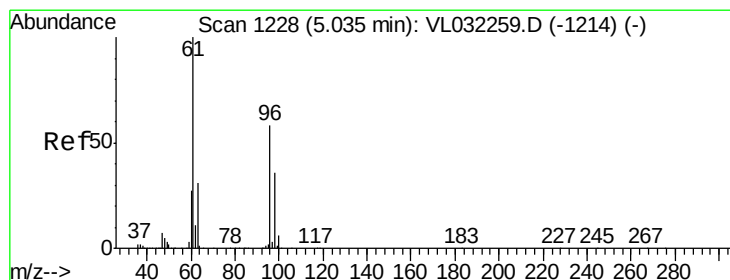
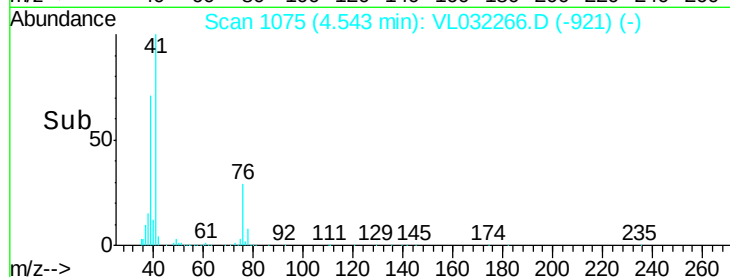
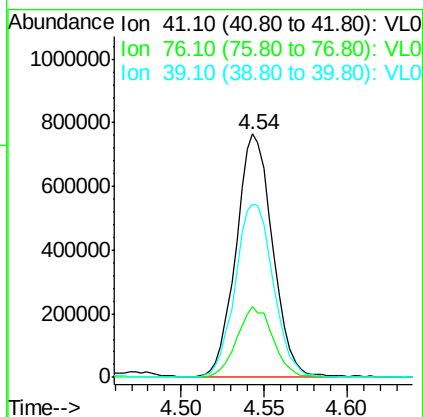
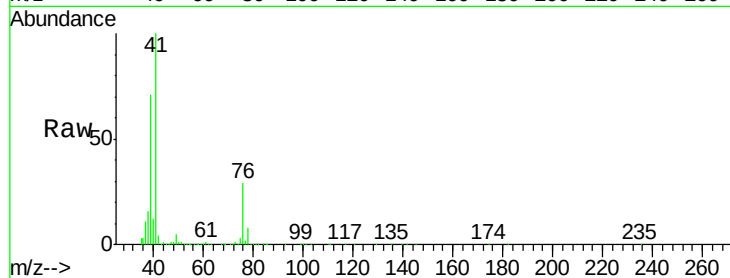
#21
 Allvl Chloride
 Concen: 9.78 ppbv
 RT: 4.54 min Scan# 1075
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.9	23.0	34.6
39	74.6	60.2	90.4

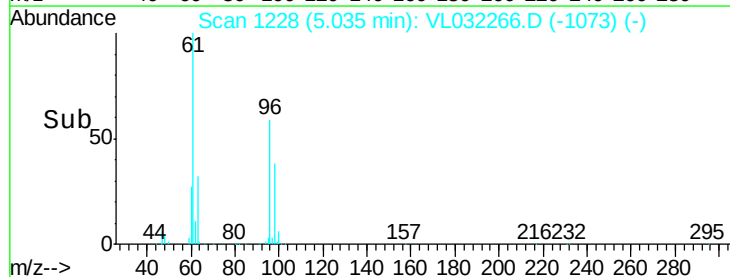
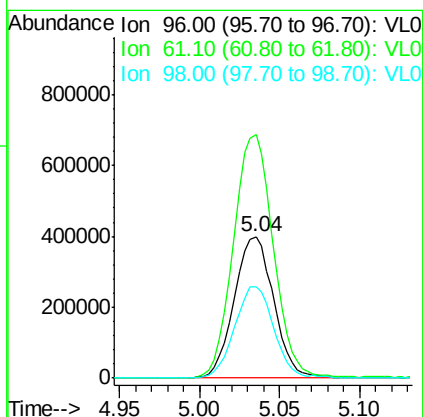
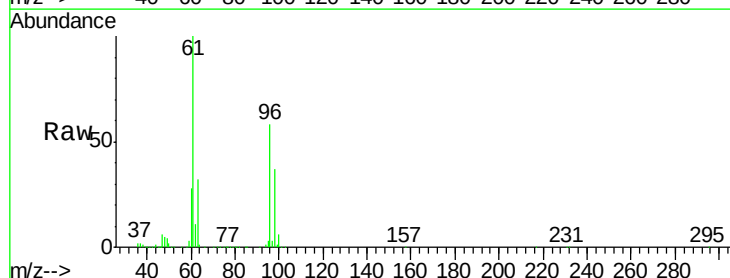
Manual Integrations
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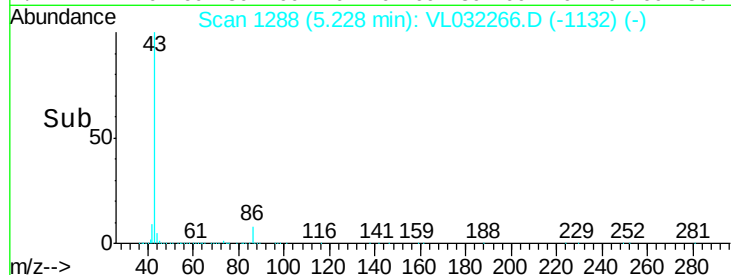
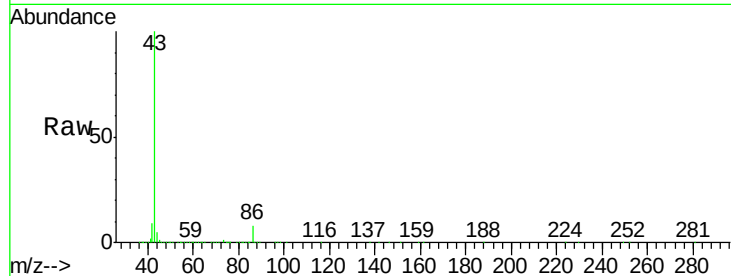
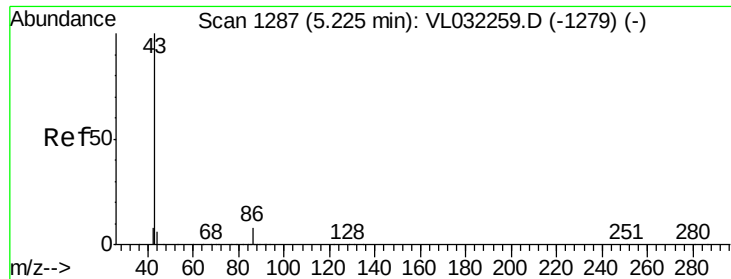
MMDadoda
 7/20/2018 2:53:10 PM



#22
 trans-1,2-Dichloroethene
 Concen: 9.43 ppbv
 RT: 5.04 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.7	137.4	206.0
98	64.1	49.6	74.4





#23

Vinyl Acetate

Concen: 10.21 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.5	5.9	8.9	
42	8.8	7.3	10.9	
44	5.1	4.4	6.6	

Instrument :

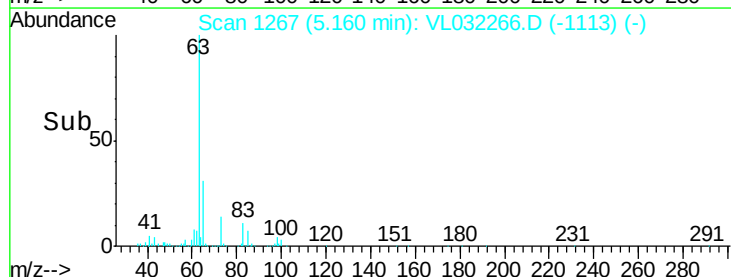
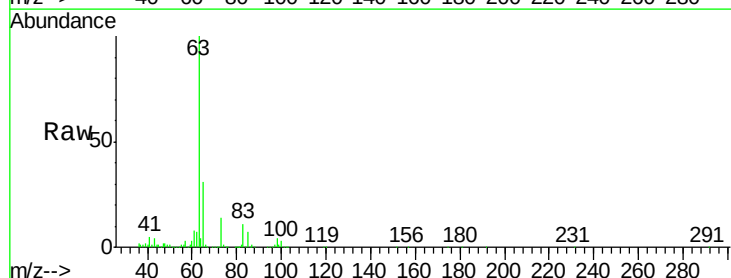
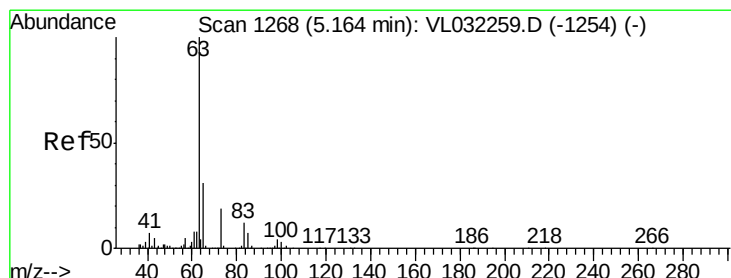
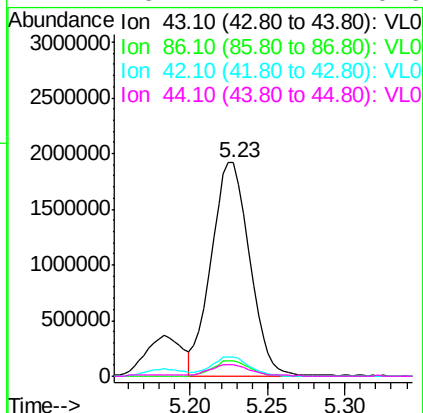
MSVOA_L

ClientSampleId :

ICVVL071818

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 9.17 ppbv

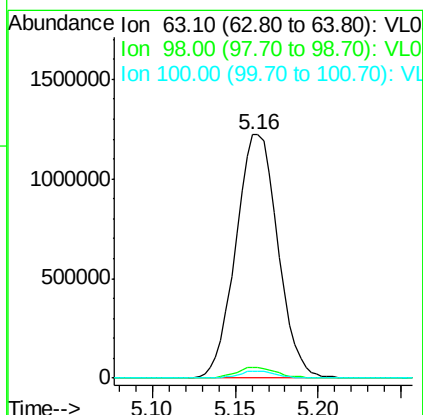
RT: 5.16 min Scan# 1267

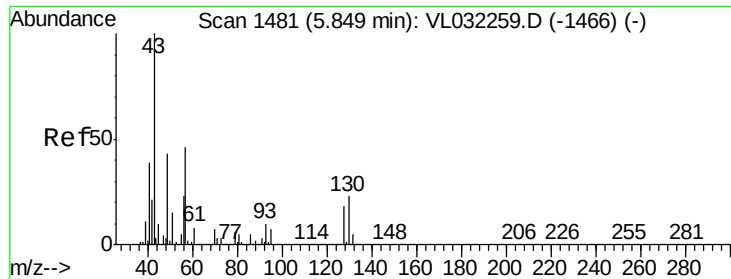
Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.3	2.1	6.3	
100	2.8	1.3	3.9	





#25
Ethyl Acetate
Concen: 9.45 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

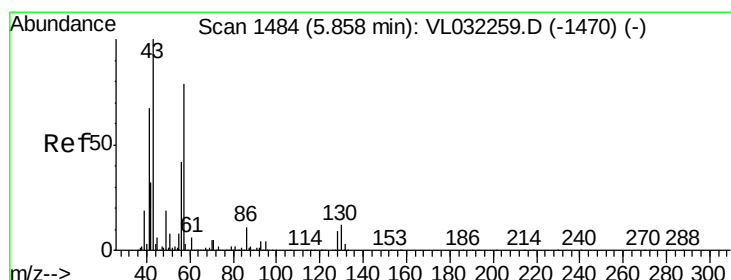
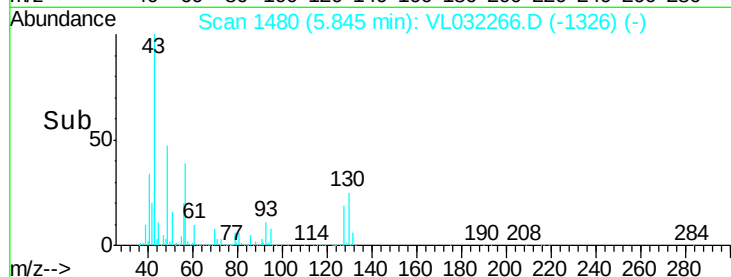
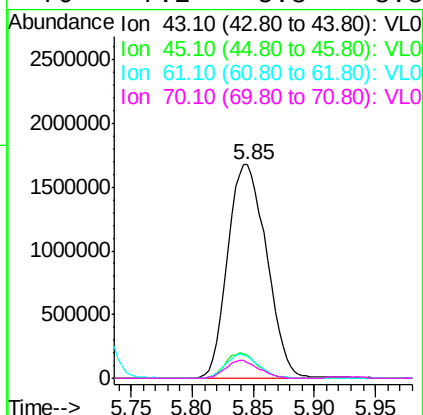
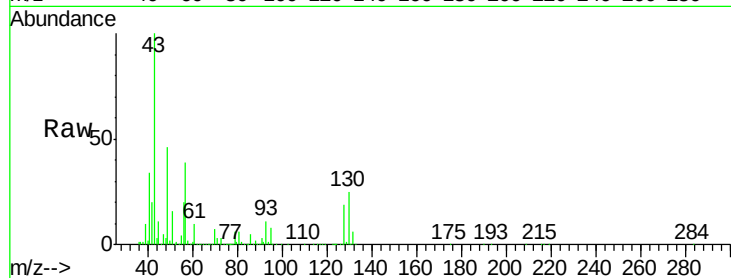
Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion: 43 Resp: 3715235

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.5	7.6	11.4
70	7.2	5.8	8.8

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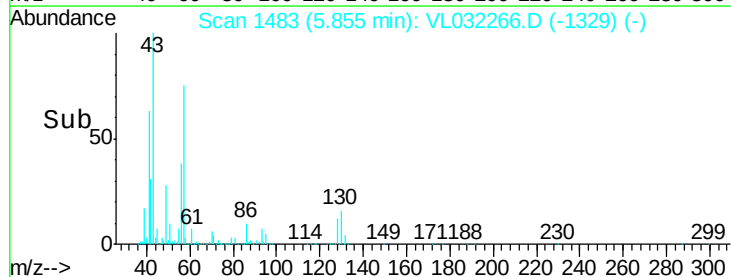
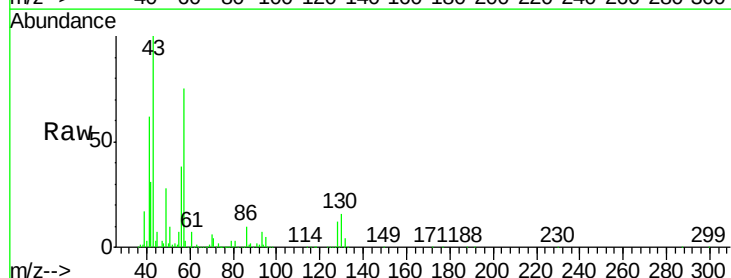
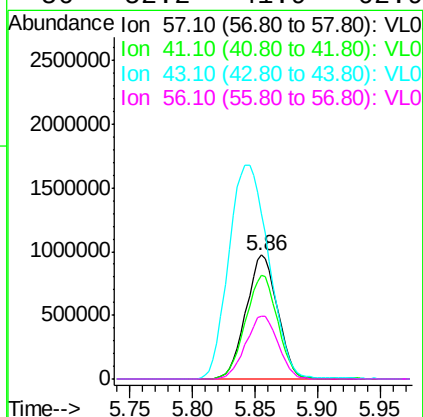
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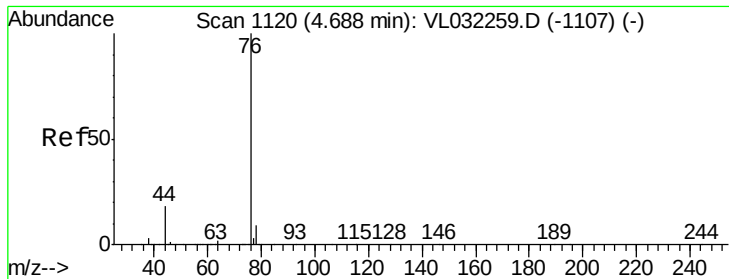


#26
Hexane
Concen: 9.44 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 57 Resp: 1703844

Ion	Ratio	Lower	Upper
57	100		
41	85.1	67.9	101.9
43	219.2	175.9	263.9
56	52.2	41.9	62.9





#27

Carbon Disulfide

Concen: 10.15 ppbv

RT: 4.69 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

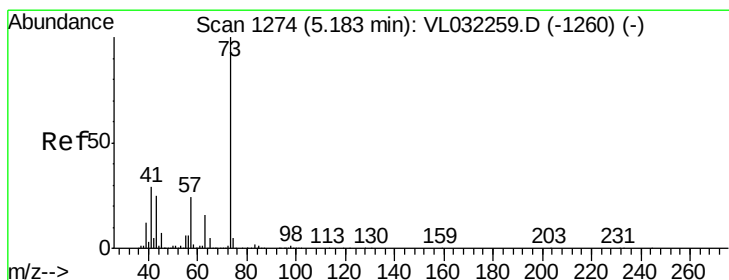
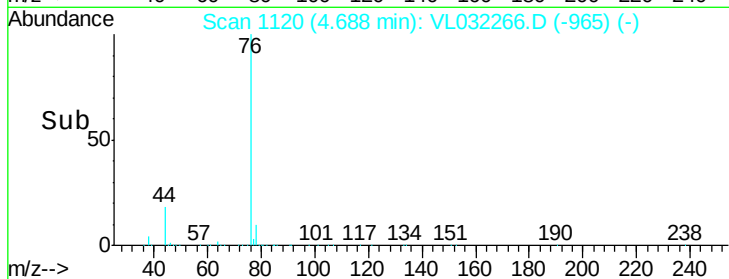
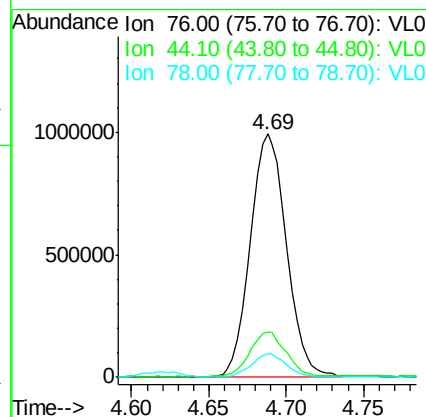
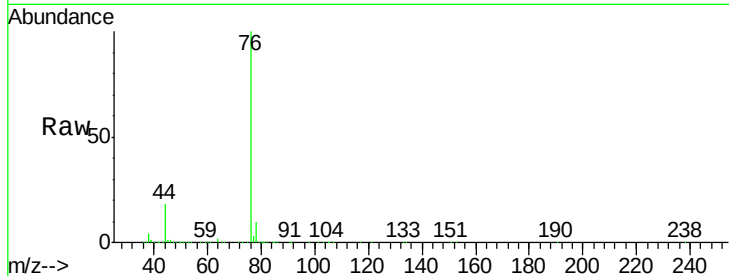
ClientSampleId :

ICVVL071818

Tot Ion:	76	Resp:	1621558
Ion	Ratio	Lower	Upper
76	100		
44	18.5	14.3	21.5
78	9.4	7.4	11.0

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 9.92 ppbv

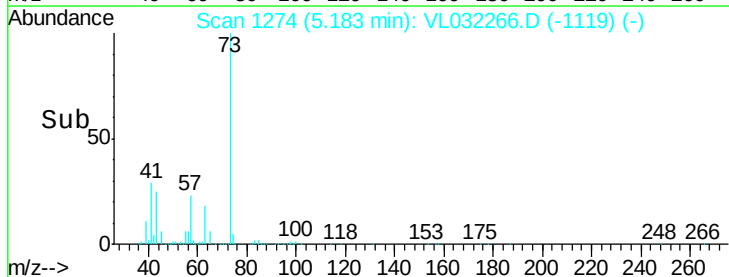
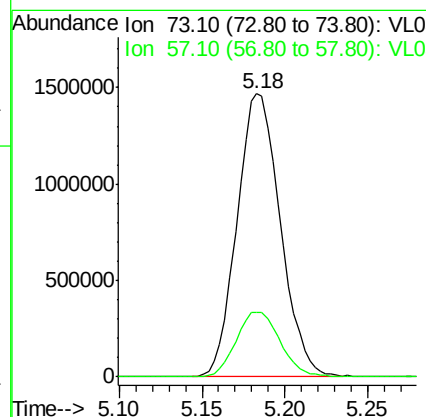
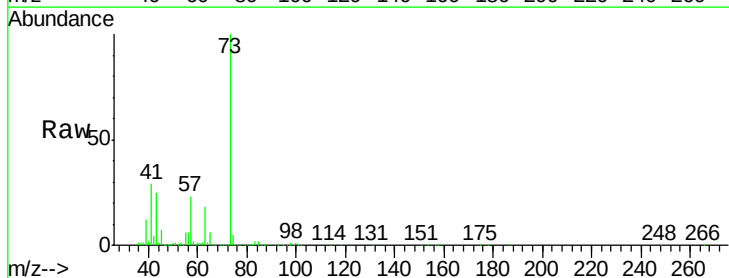
RT: 5.18 min Scan# 1274

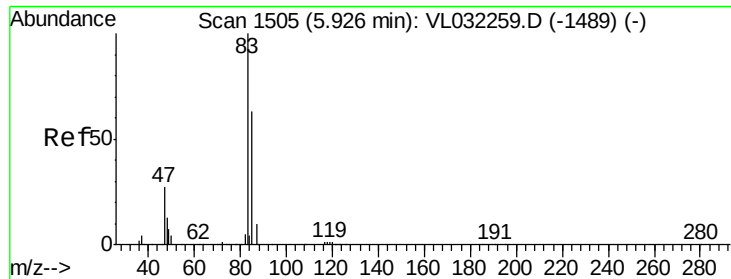
Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion:	73	Resp:	2655273
Ion	Ratio	Lower	Upper
73	100		
57	23.7	19.3	28.9





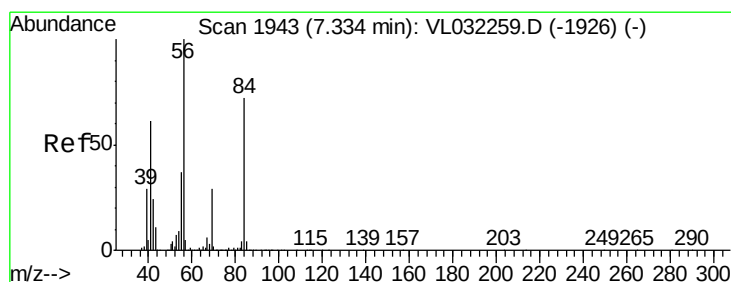
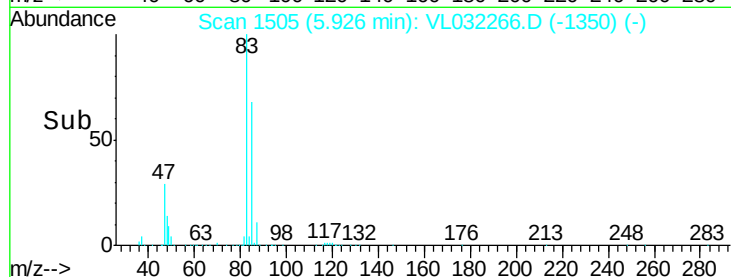
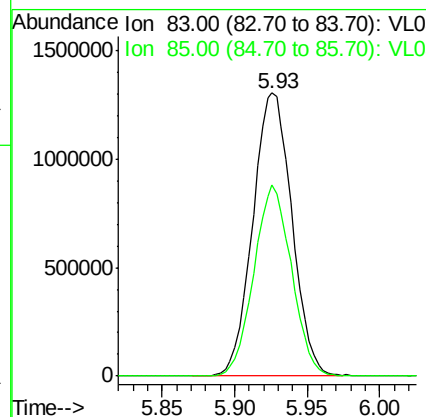
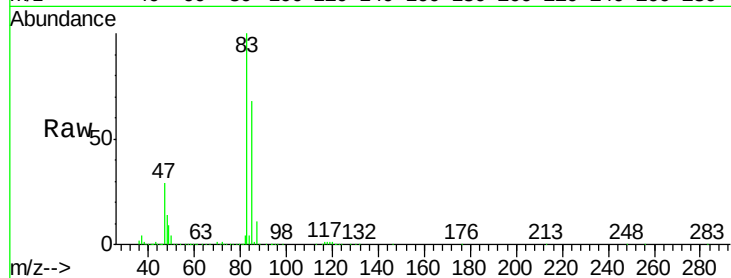
#29
Chloroform
Concen: 9.18 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion: 83 Resp: 2444087
Ion Ratio Lower Upper
83 100
85 67.4 50.7 76.1

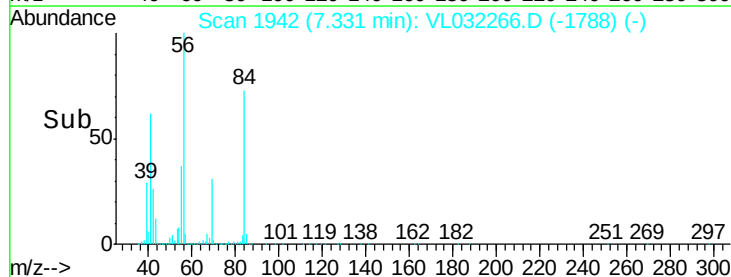
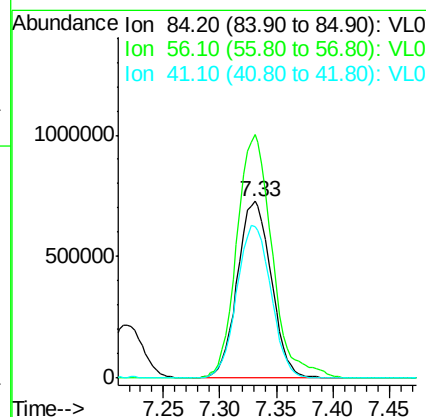
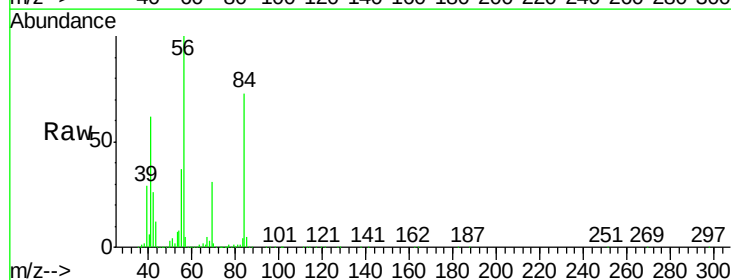
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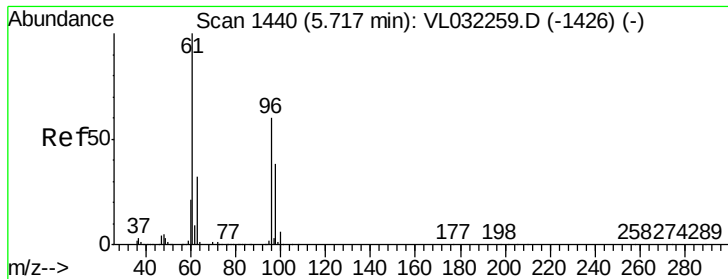
MMDadoda
7/20/2018 2:53:10 PM



#30
Cyclohexane
Concen: 10.10 ppbv
RT: 7.33 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 84 Resp: 1528952
Ion Ratio Lower Upper
84 100
56 143.3 115.6 173.4
41 86.6 68.7 103.1





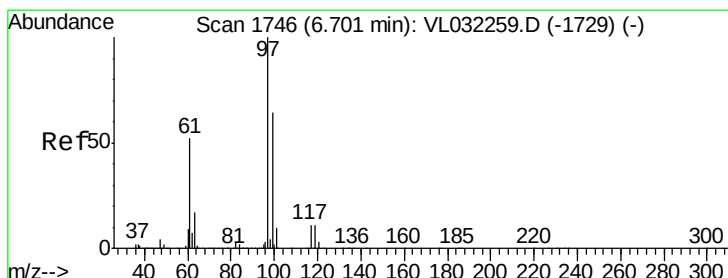
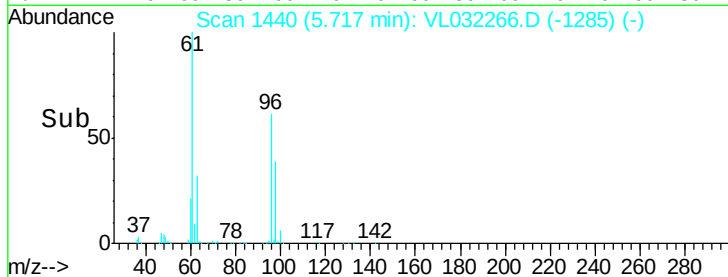
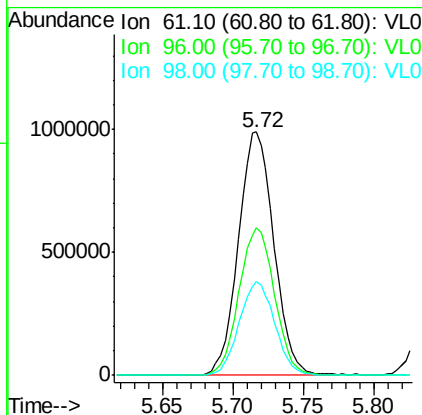
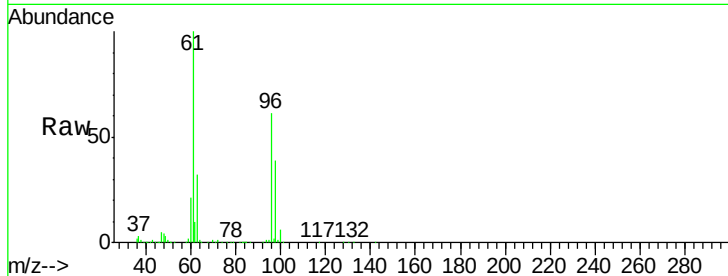
#31
 cis-1,2-Dichloroethene
 Concen: 10.08 ppbv
 RT: 5.72 min Scan# 1440
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion	Ratio	Lower	Upper
61	100		
96	60.9	47.9	71.9
98	38.6	30.5	45.7

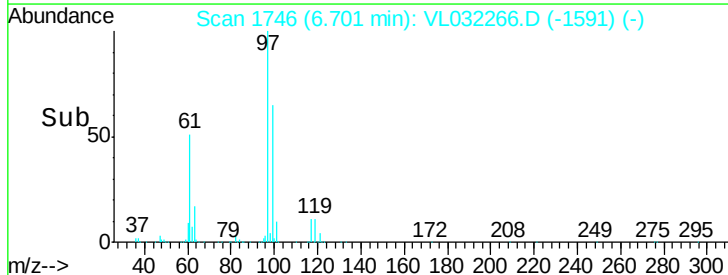
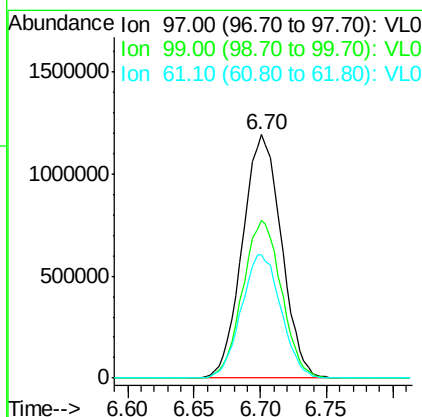
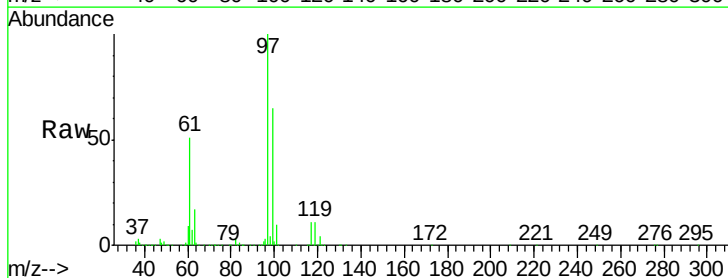
Manual Integrations
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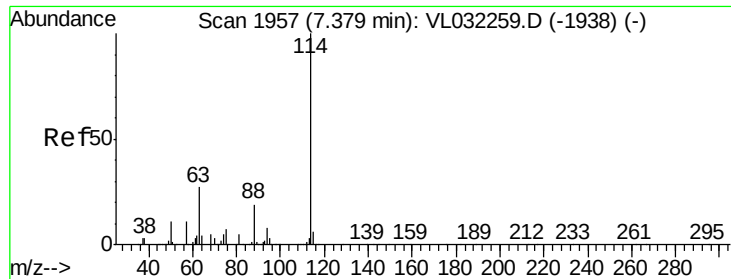
MMDadoda
 7/20/2018 2:53:10 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.03 ppbv
 RT: 6.70 min Scan# 1746
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.0	76.6
61	51.8	41.2	61.8





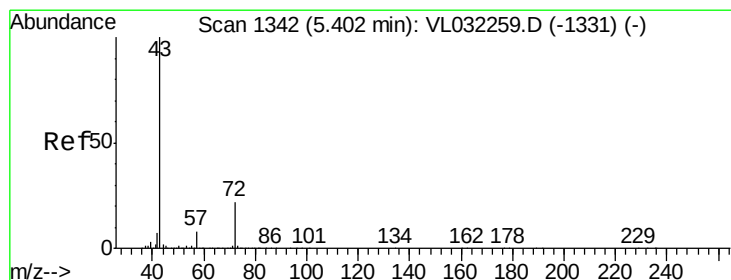
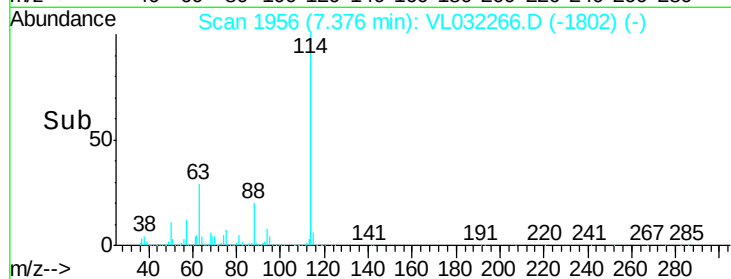
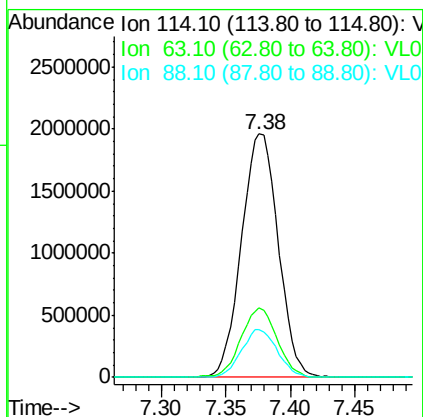
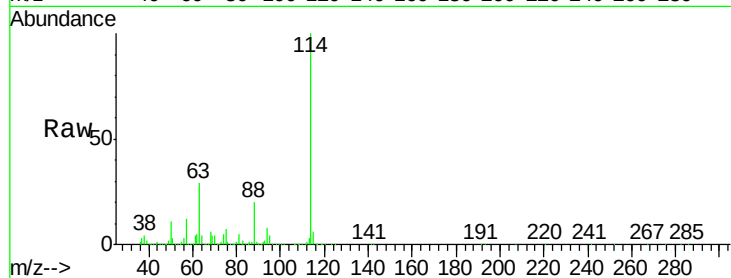
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.6	33.8
88	19.2	15.2	22.8

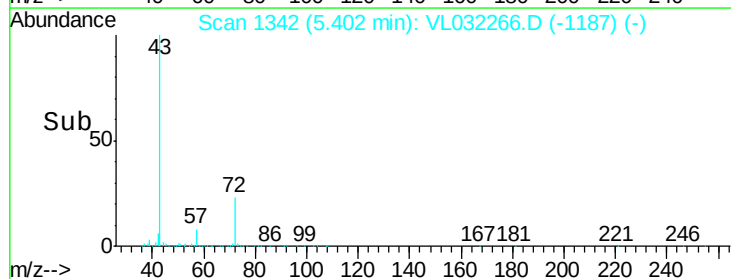
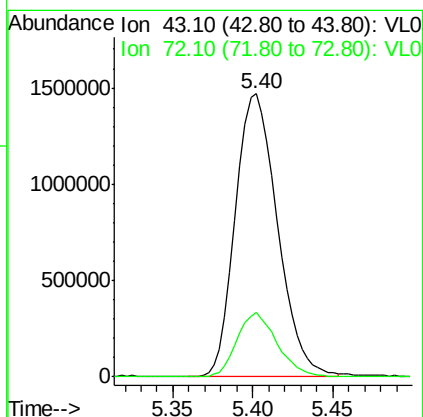
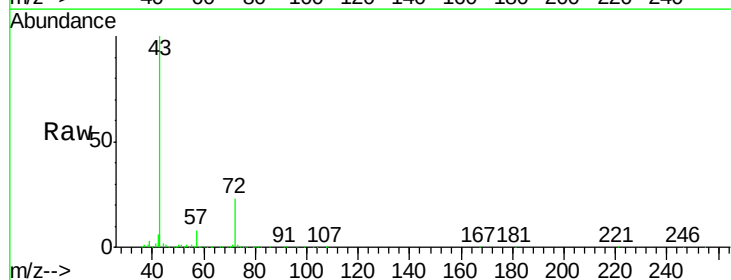
Manual Integrations
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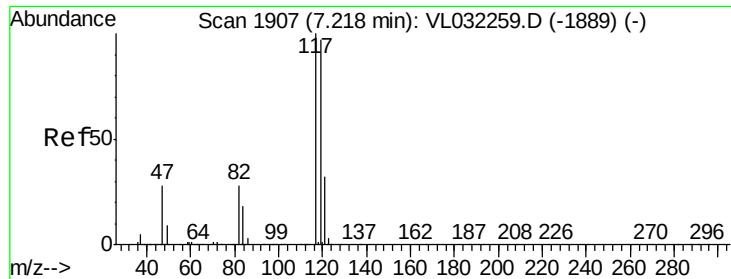
MMDadoda
 7/20/2018 2:53:10 PM



#34
 2-Butanone
 Concen: 9.86 ppbv
 RT: 5.40 min Scan# 1342
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.7	26.5





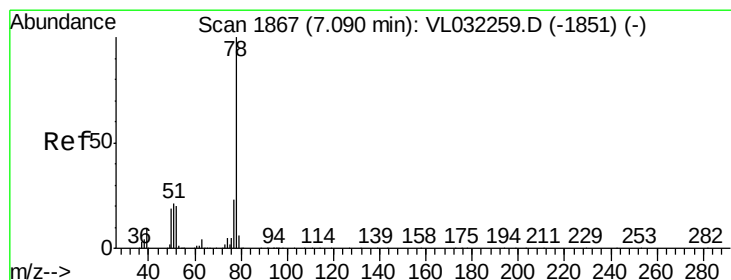
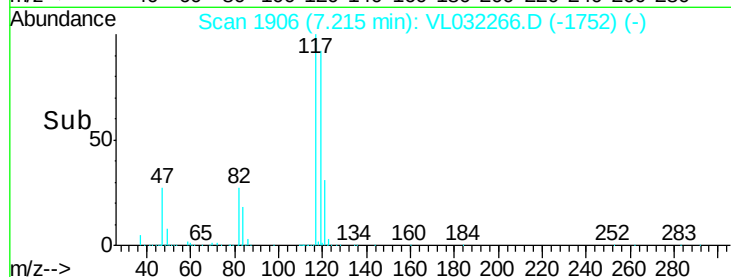
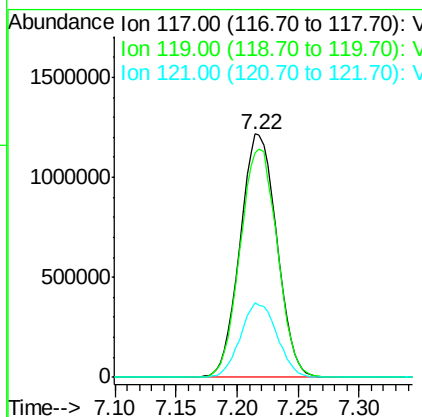
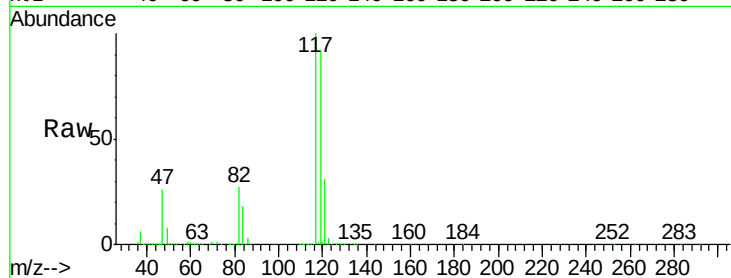
#35
Carbon Tetrachloride
Concen: 9.43 ppbv
RT: 7.22 min Scan# 1906
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion:117 Resp: 2526488
Ion Ratio Lower Upper
117 100
119 92.3 77.4 116.0
121 30.8 25.4 38.2

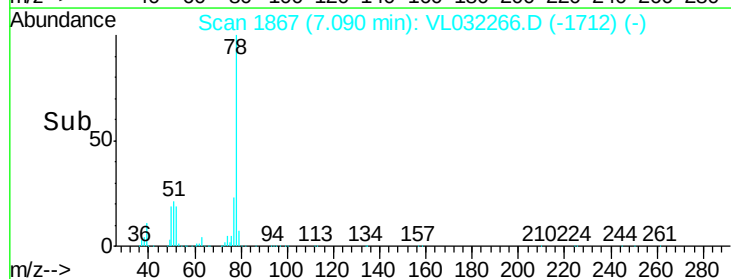
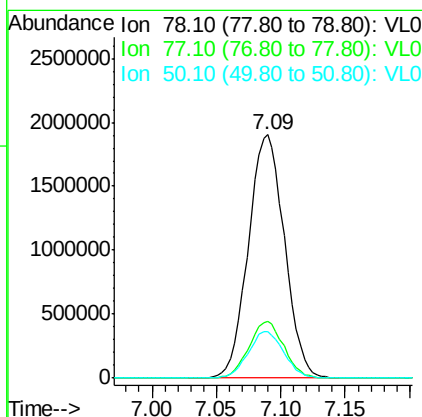
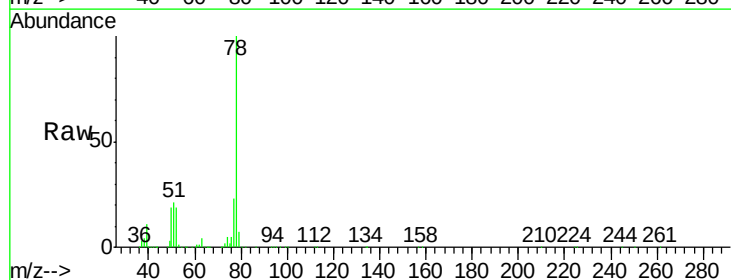
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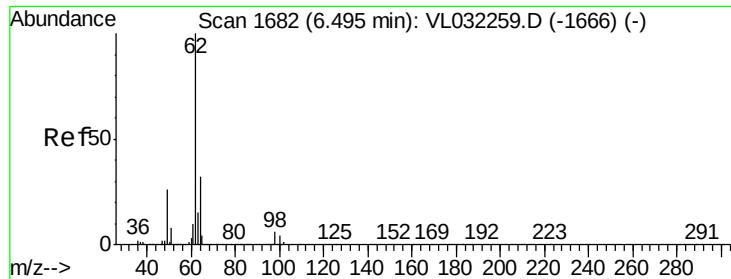
MMDadoda
7/20/2018 2:53:10 PM



#36
Benzene
Concen: 9.71 ppbv
RT: 7.09 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 78 Resp: 3723916
Ion Ratio Lower Upper
78 100
77 23.0 18.6 27.8
50 19.3 15.0 22.6





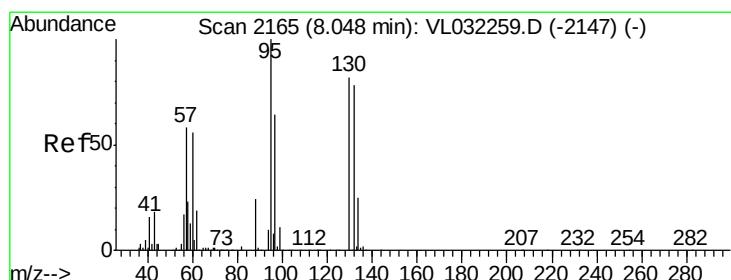
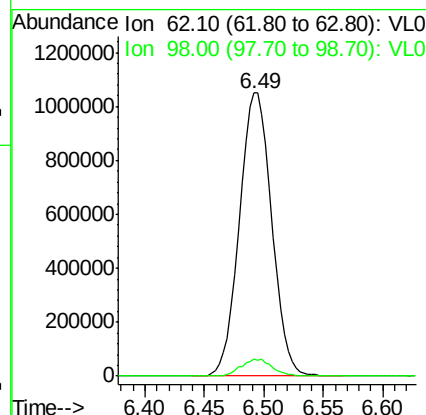
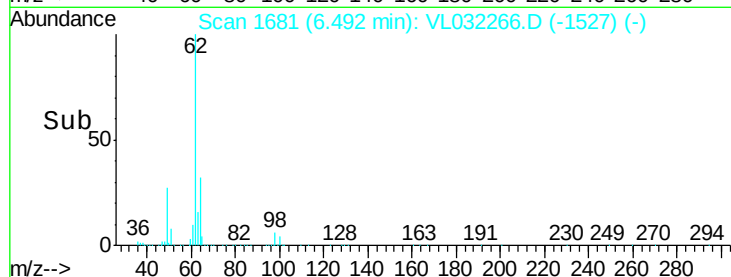
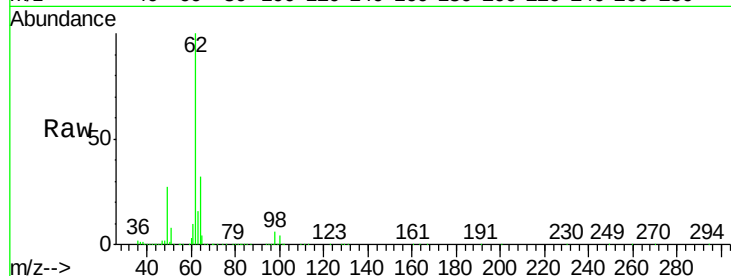
#37
 1,2-Dichloroethane
 Concen: 8.73 ppbv
 RT: 6.49 min Scan# 1681
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion: 62 Resp: 1977001
 Ion Ratio Lower Upper
 62 100
 98 5.9 4.9 7.3

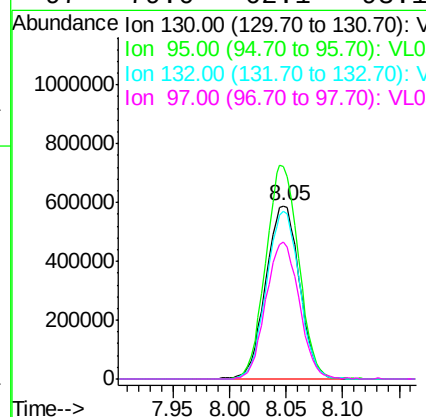
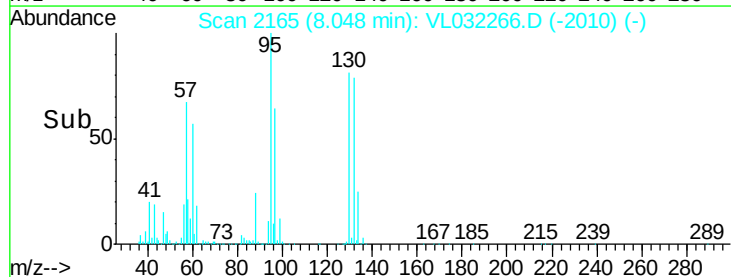
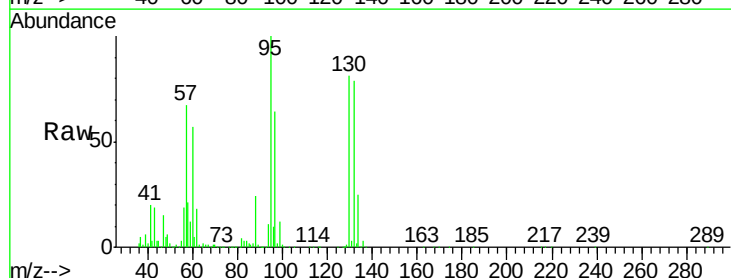
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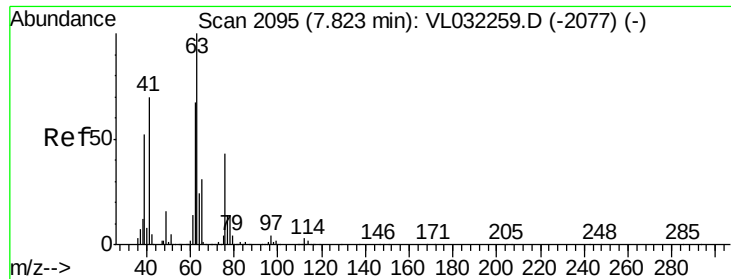
MMDadoda
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#38
 Trichloroethene
 Concen: 9.58 ppbv
 RT: 8.05 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion: 130 Resp: 1215531
 Ion Ratio Lower Upper
 130 100
 95 123.0 97.1 145.7
 132 97.1 75.6 113.4
 97 79.0 62.1 93.1





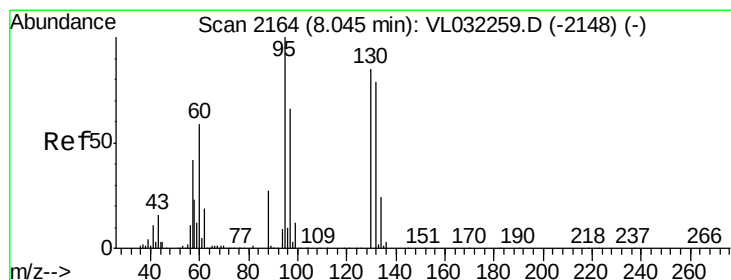
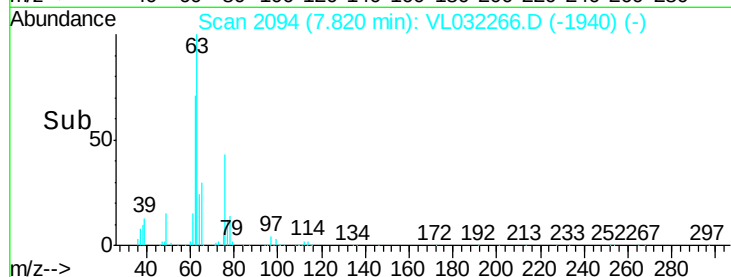
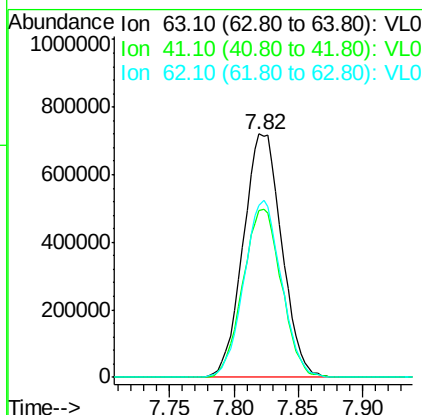
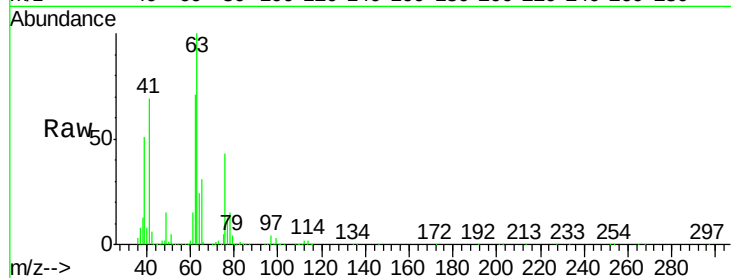
#39
 1,2-Dichloropropane
 Concen: 9.92 ppbv
 RT: 7.82 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion	Ratio	Lower	Upper
63	100		
41	68.6	55.8	83.6
62	70.4	53.8	80.8

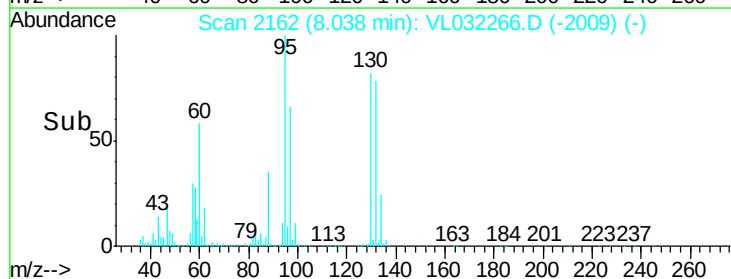
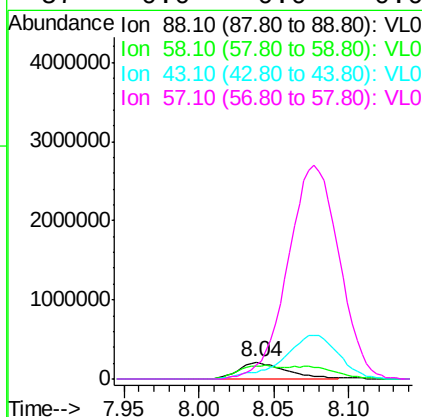
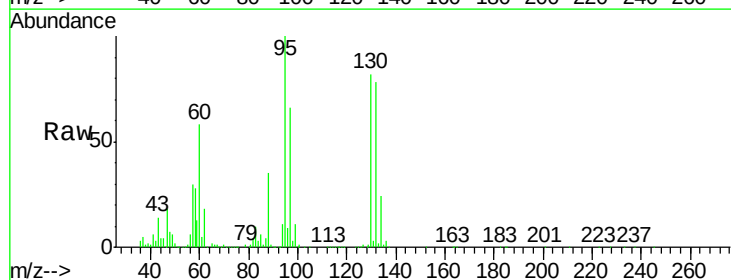
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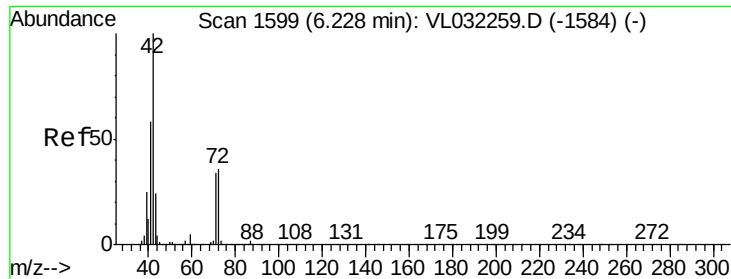
MMDadoda
 7/20/2018 2:53:10 PM



#40
 1,4-Dioxane
 Concen: 10.30 ppbv
 RT: 8.04 min Scan# 2162
 Delta R.T. -0.01 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
88	100		
58	149.1	60.9	91.3#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





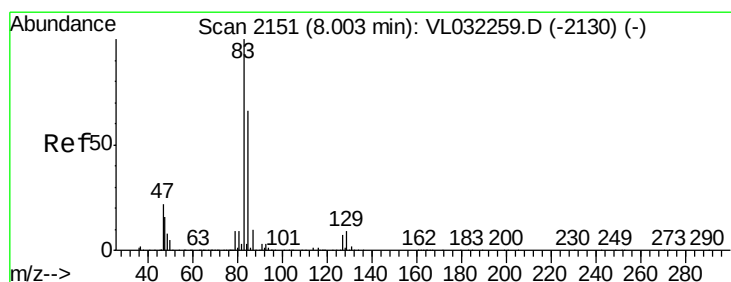
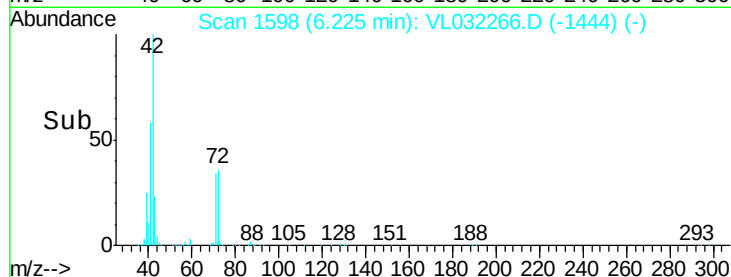
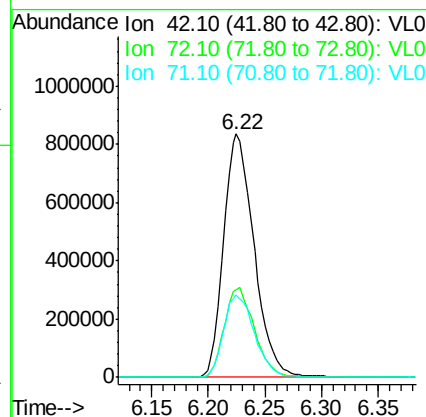
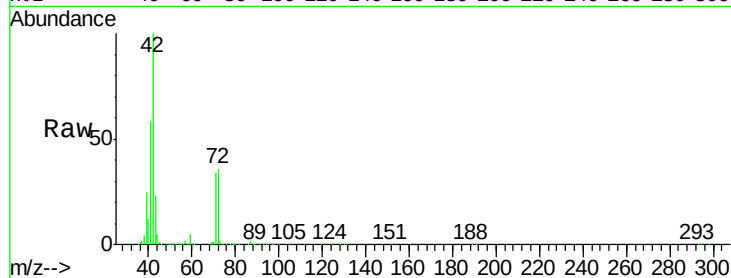
#41
Tetrahydrofuran
Concen: 10.02 ppbv
RT: 6.22 min Scan# 1598
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion: 42 Resp: 1562324
Ion Ratio Lower Upper
42 100
72 36.9 29.4 44.0
71 34.5 28.2 42.4

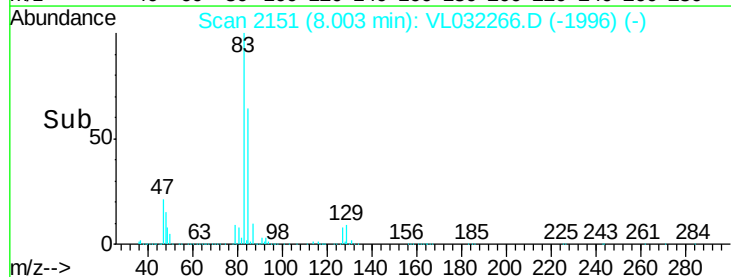
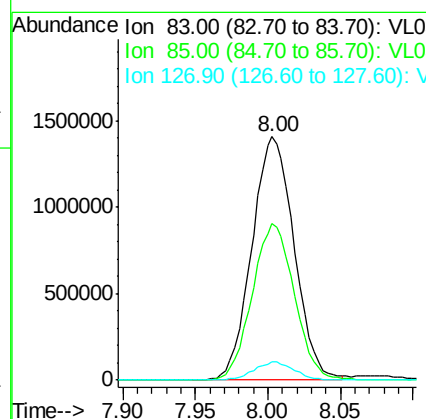
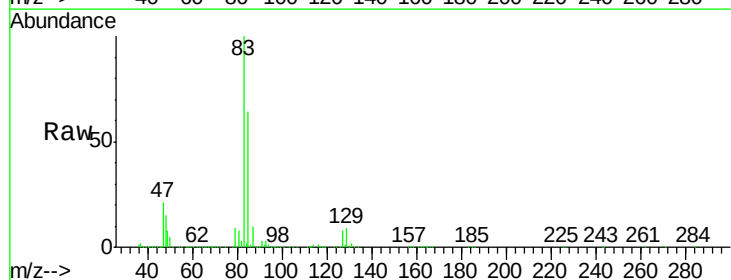
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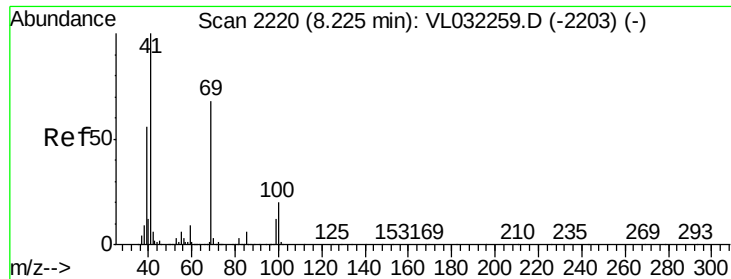
MMDadoda
7/20/2018 2:53:10 PM



#42
Bromodichloromethane
Concen: 9.98 ppbv
RT: 8.00 min Scan# 2151
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 83 Resp: 2846445
Ion Ratio Lower Upper
83 100
85 64.4 53.0 79.4
127 7.7 5.7 8.5





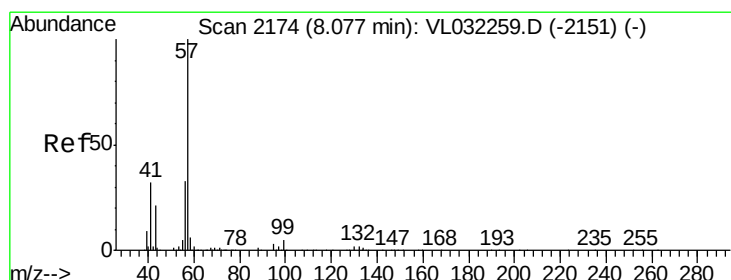
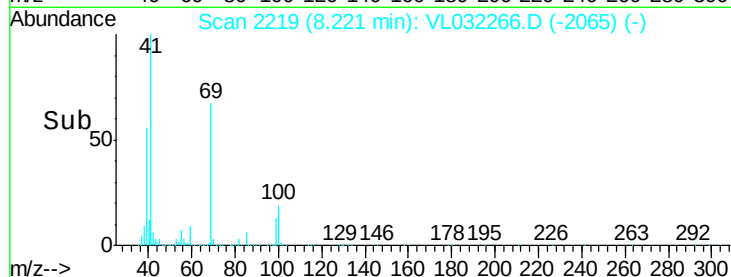
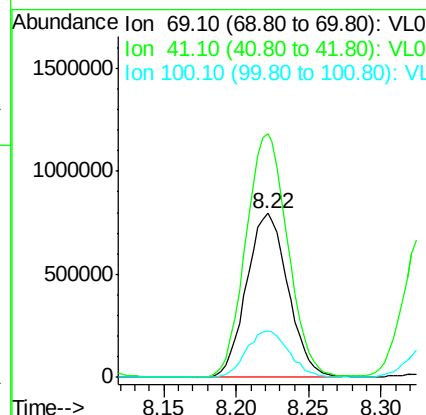
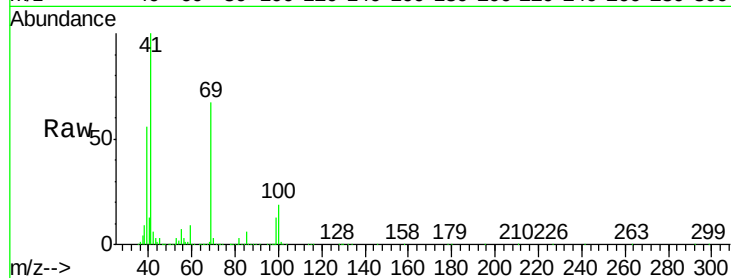
#43
Methyl Methacrylate
Concen: 10.11 ppbv
RT: 8.22 min Scan# 2219
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion: 69 Resp: 1588289
Ion Ratio Lower Upper
69 100
41 149.4 118.6 177.8
100 29.0 23.3 34.9

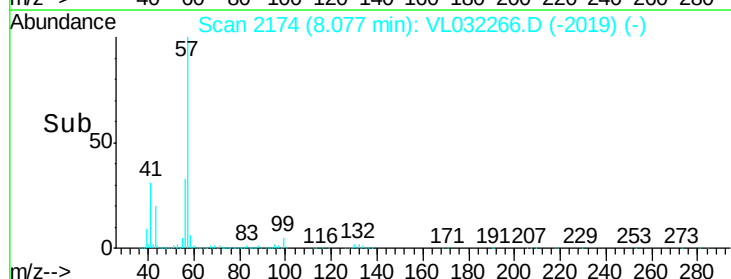
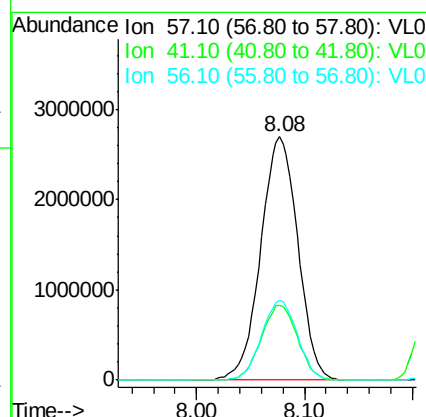
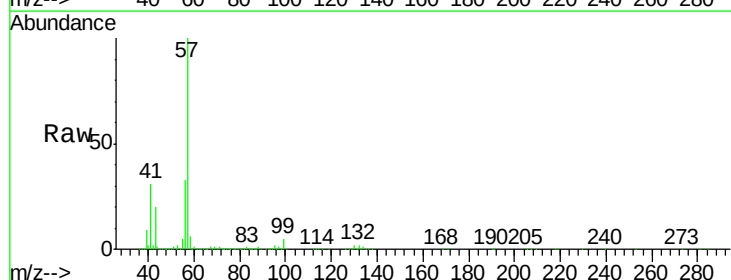
Manual Integrations
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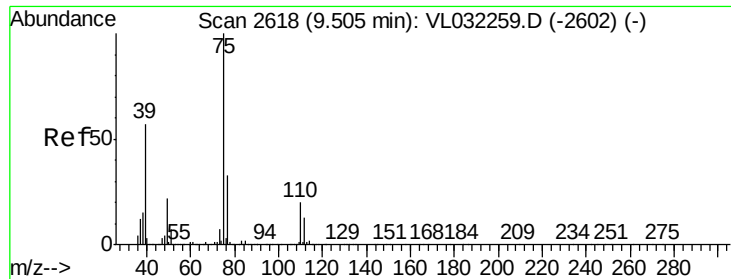
MMDadoda
7/20/2018 2:53:10 PM



#44
2,2,4-Trimethylpentane
Concen: 9.61 ppbv
RT: 8.08 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 57 Resp: 6425483
Ion Ratio Lower Upper
57 100
41 30.3 24.4 36.6
56 31.8 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 11.00 ppbv

RT: 9.50 min Scan# 2618

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 75 Resp: 2036933

Ion Ratio Lower Upper

75 100

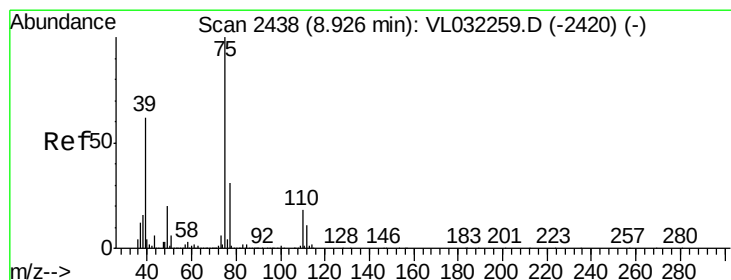
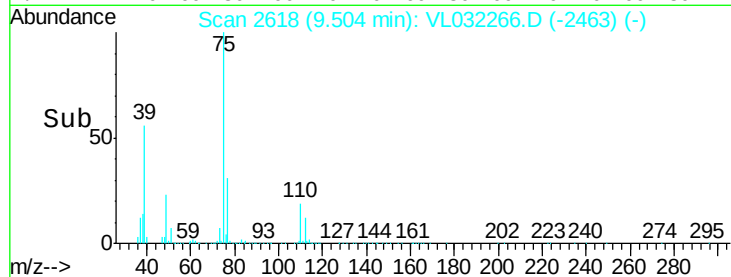
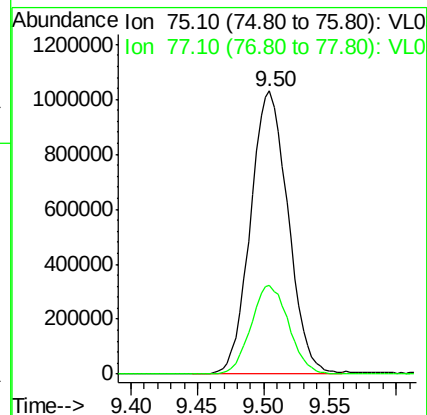
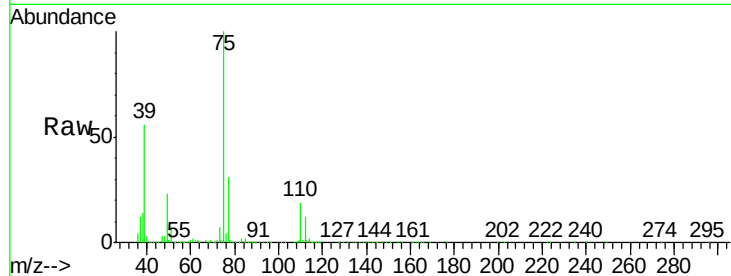
77 31.5 26.2 39.4

Manual Integrations

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7/20/2018 2:53:10 PM



#46

cis-1,3-Dichloropropene

Concen: 10.14 ppbv

RT: 8.92 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

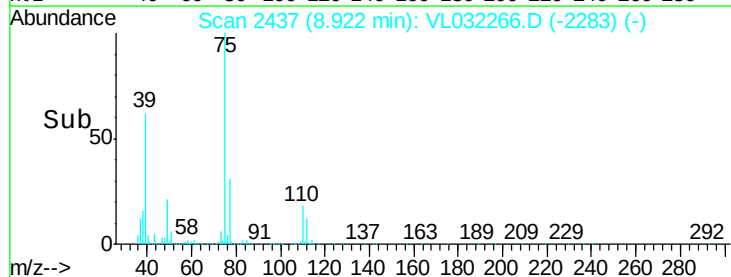
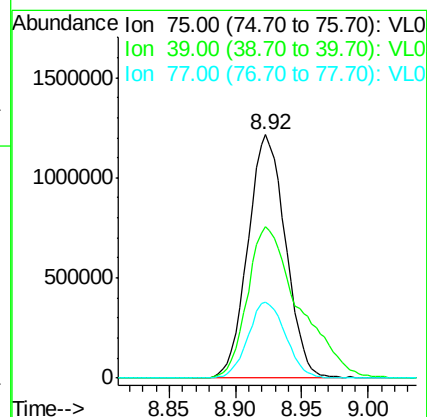
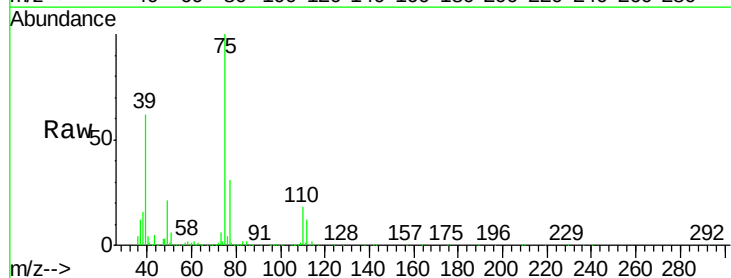
Tgt Ion: 75 Resp: 2394800

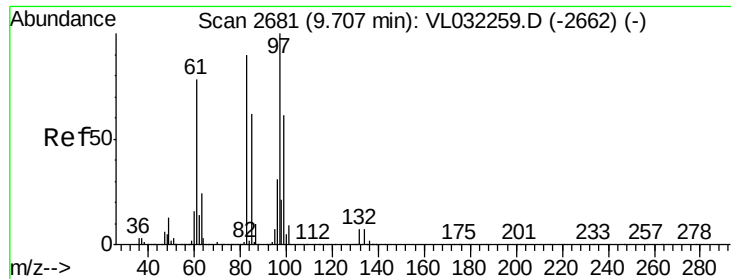
Ion Ratio Lower Upper

75 100

39 62.2 49.9 74.9

77 31.3 25.0 37.4





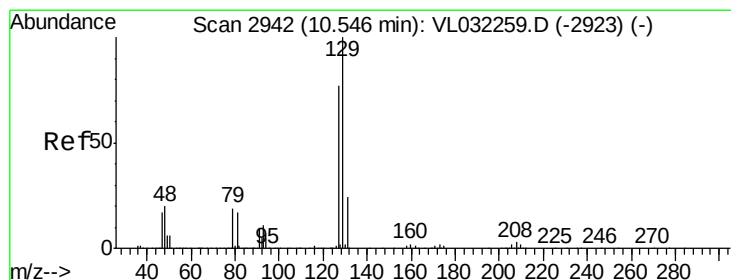
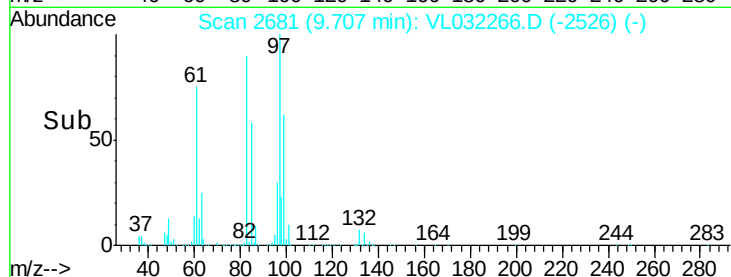
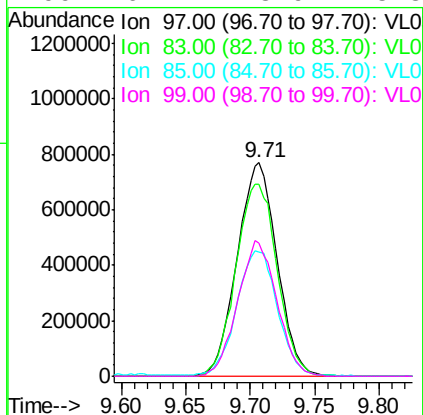
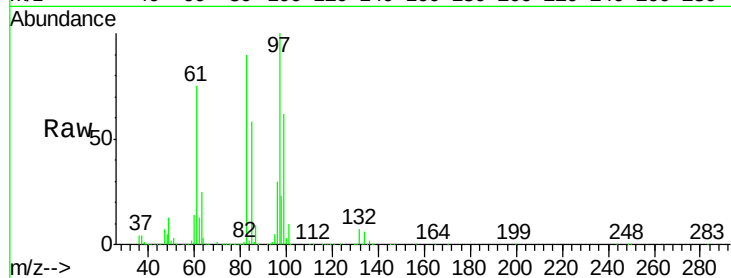
#47
 1,1,2-Trichloroethane
 Concen: 10.08 ppbv
 RT: 9.71 min Scan# 2681
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	89.8	72.3	108.5	
85	58.1	49.5	74.3	
99	62.1	48.9	73.3	

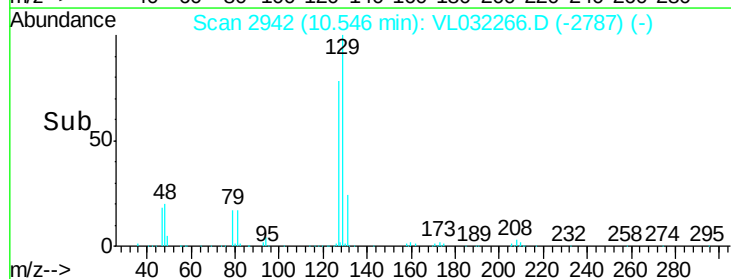
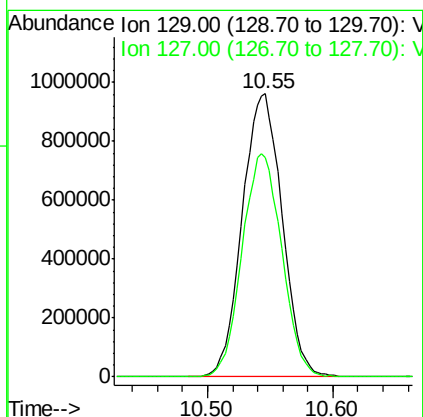
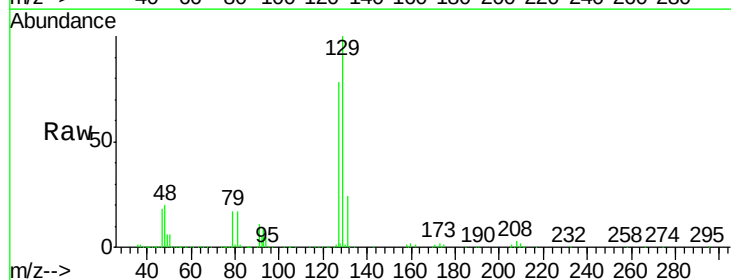
Manual Integrations
 APPROVED

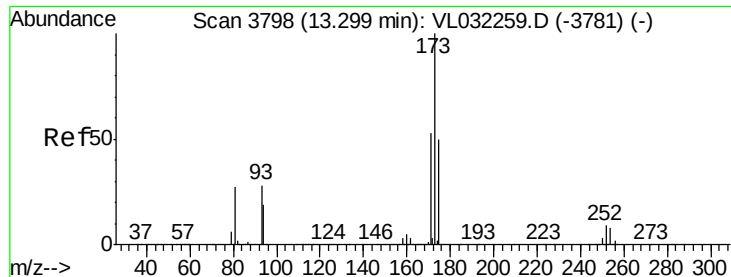
MMDadoda
 7/20/2018 2:53:10 PM



#48
 Dibromochloromethane
 Concen: 8.87 ppbv
 RT: 10.55 min Scan# 2942
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.8	39.1	117.3	





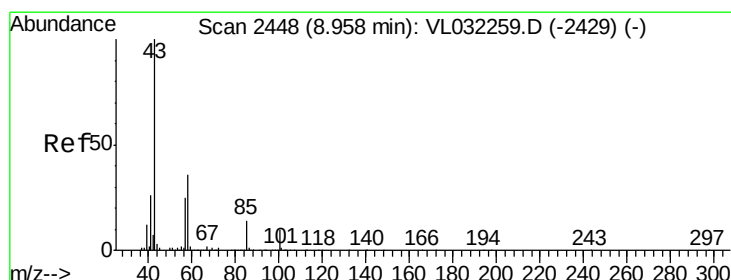
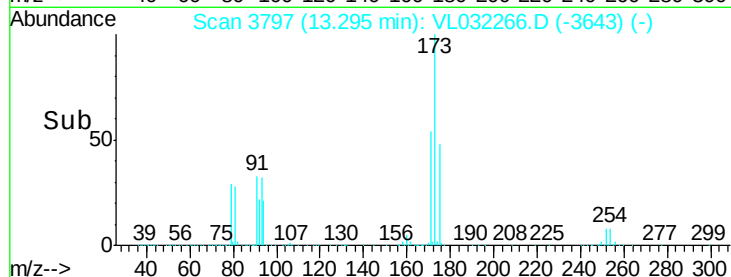
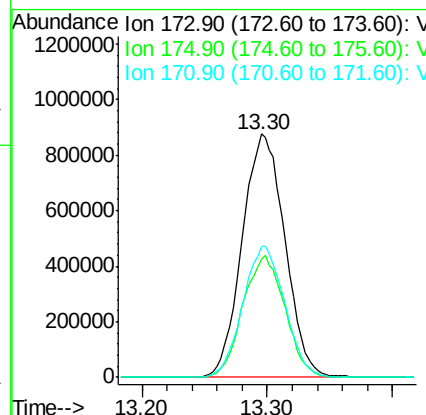
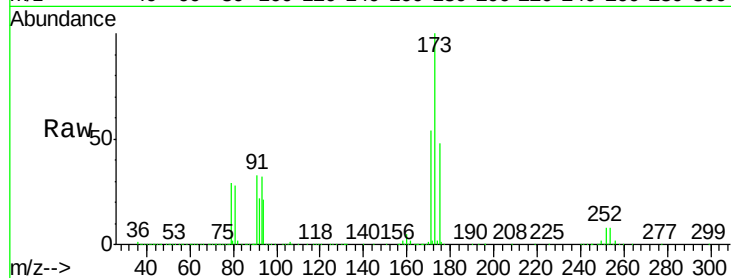
#49
Bromoform
Concen: 9.90 ppbv
RT: 13.30 min Scan# 3797
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	39.0	58.6
171	53.2	41.6	62.4

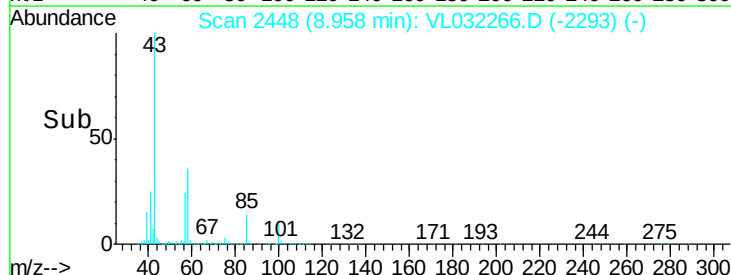
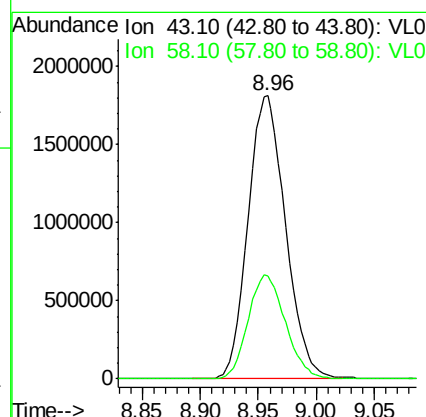
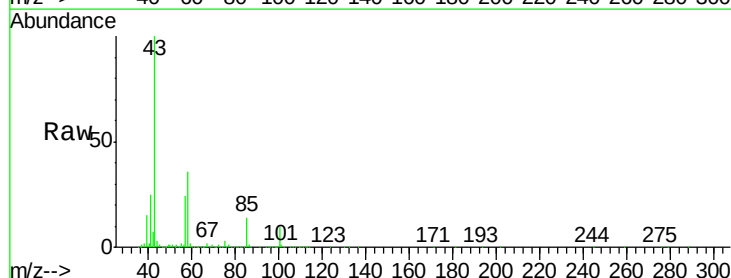
Manual Integrations
APPROVED

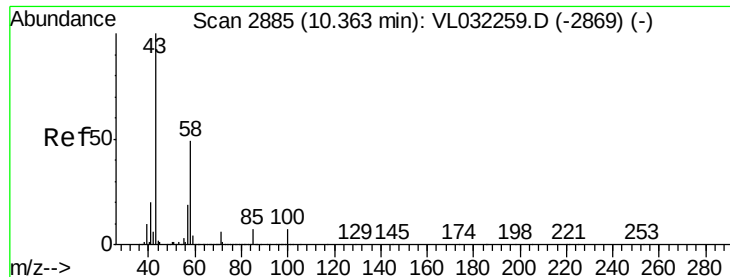
MMDadoda
7/20/2018 2:53:10 PM



#50
4-Methyl-2-Pentanone
Concen: 9.28 ppbv
RT: 8.96 min Scan# 2448
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.5	29.2	43.8





#51

2-Hexanone

Concen: 9.22 ppbv

RT: 10.36 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 43 Resp: 3092163

Ion Ratio Lower Upper

43 100

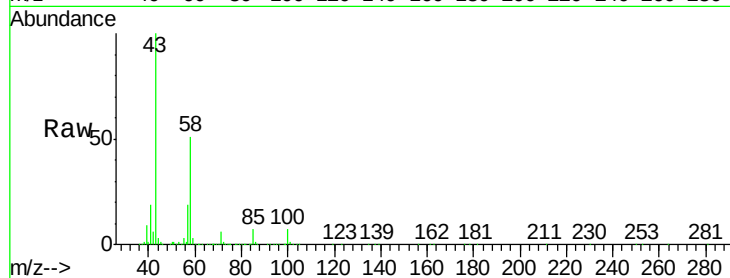
58 49.6 39.4 59.2

98 0.3 0.2 0.2#

Manual Integrations
APPROVED

MMDadoda

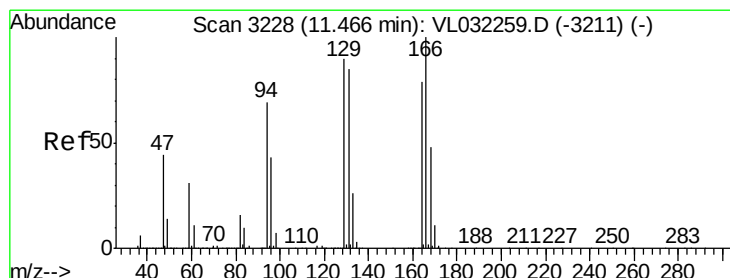
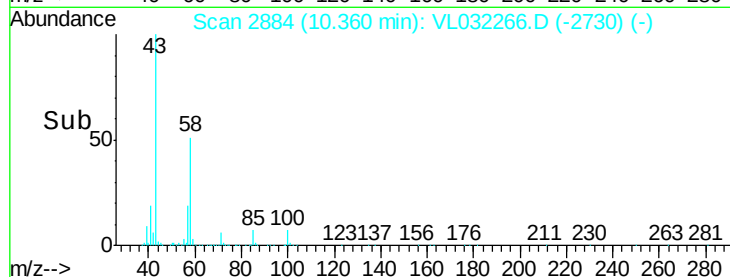
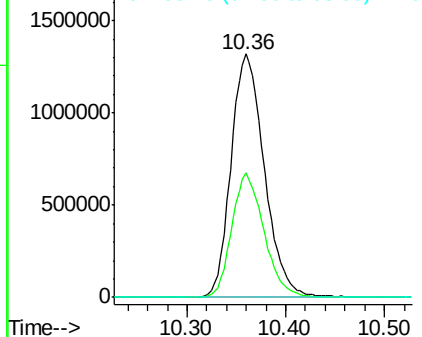
7/20/2018 2:53:10 PM



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: 8.99 ppbv

RT: 11.46 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion:164 Resp: 1177698

Ion Ratio Lower Upper

164 100

166 124.5 101.7 152.5

129 117.2 91.5 137.3

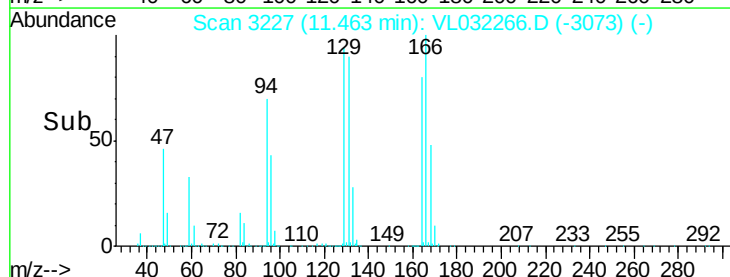
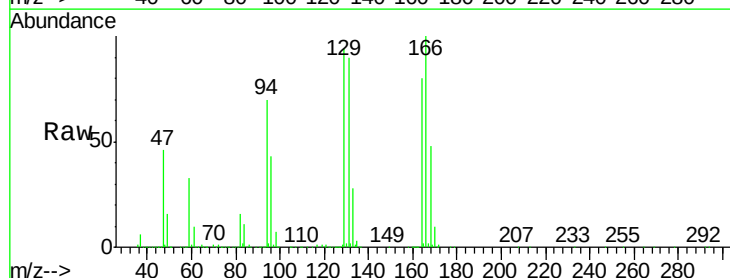
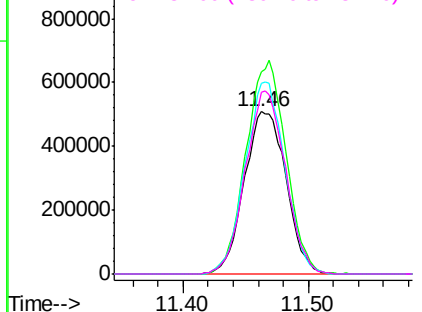
131 111.7 86.6 129.8

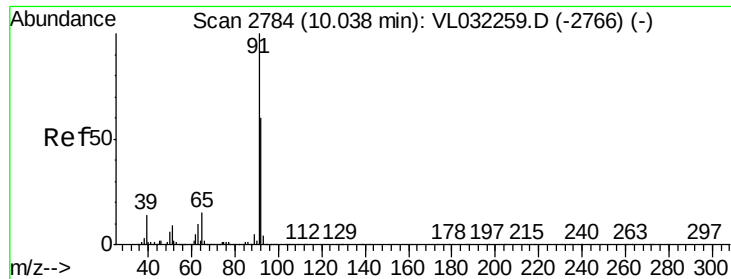
Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.06 ppbv

RT: 10.04 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 91 Resp: 4678409

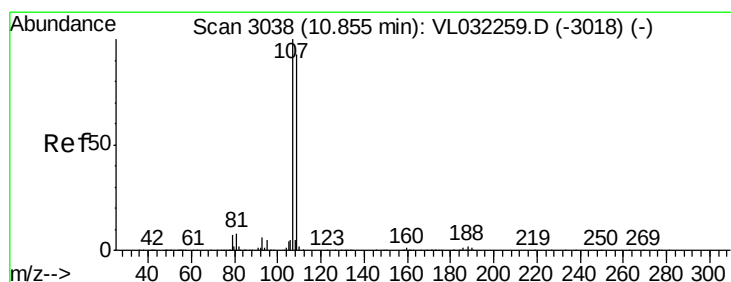
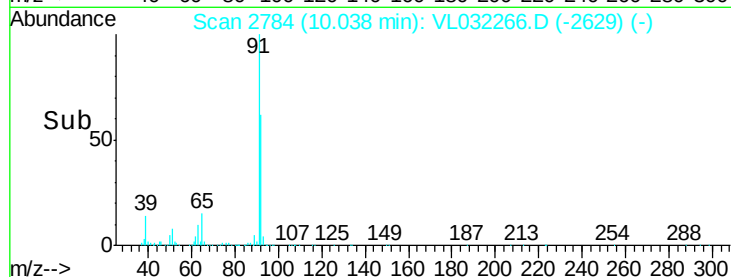
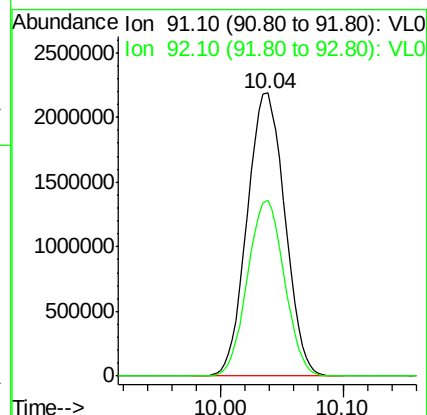
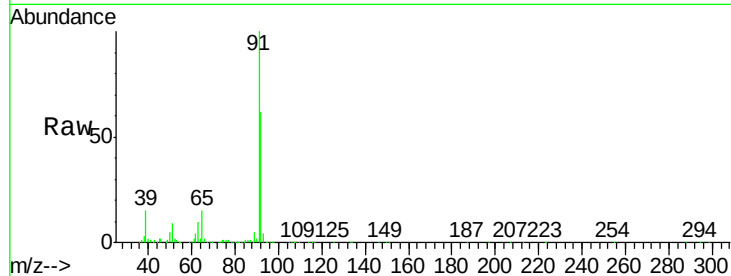
Ion Ratio Lower Upper

91 100

92 60.6 48.6 72.8

Manual Integrations
APPROVED

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#54

1,2-Dibromoethane

Concen: 8.68 ppbv

RT: 10.85 min Scan# 3037

Delta R.T. -0.00 min

Lab File: VL032266.D

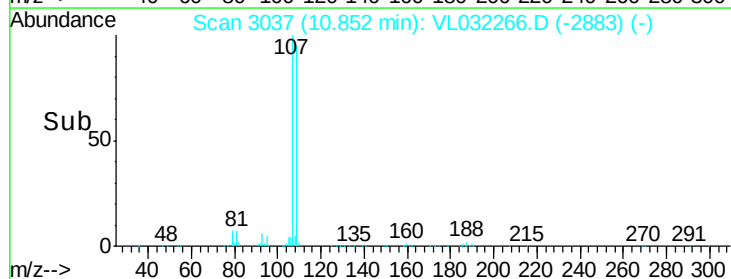
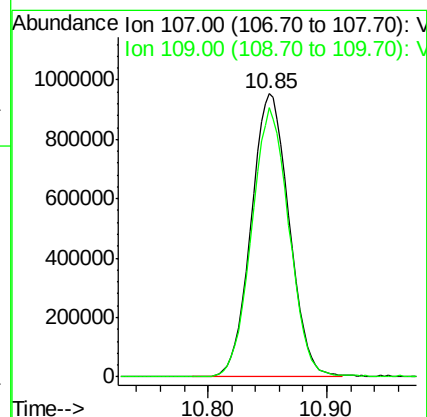
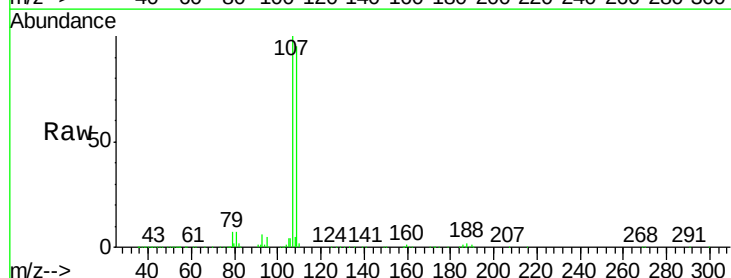
Acq: 18 Jul 2018 17:26

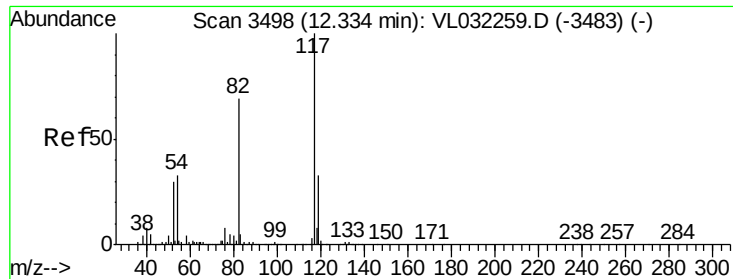
Tgt Ion: 107 Resp: 2100934

Ion Ratio Lower Upper

107 100

109 95.1 74.8 112.2





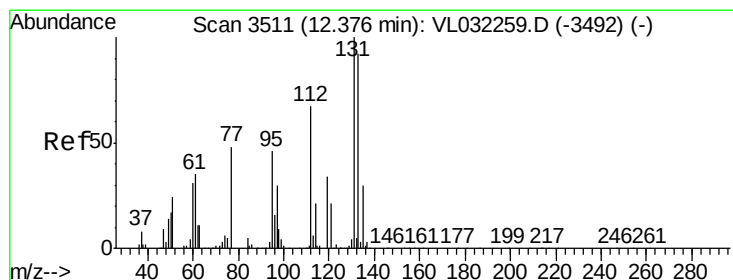
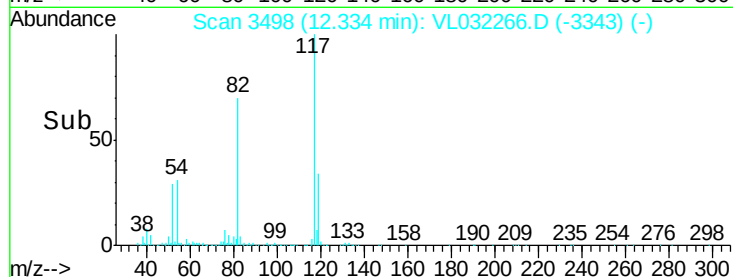
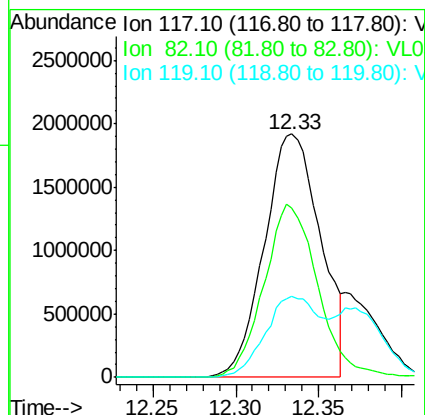
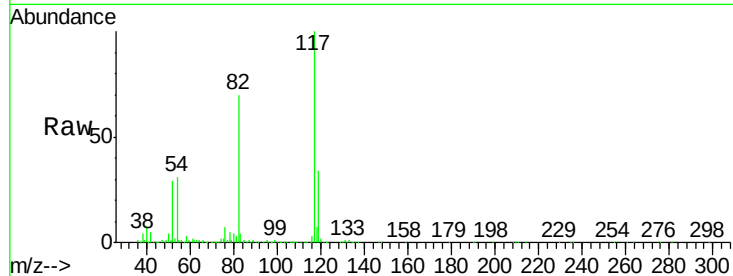
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.33 min Scan# 3498
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion:117 Resp: 4528080
Ion Ratio Lower Upper
117 100
82 68.7 53.9 80.9
119 57.3 25.5 38.3#

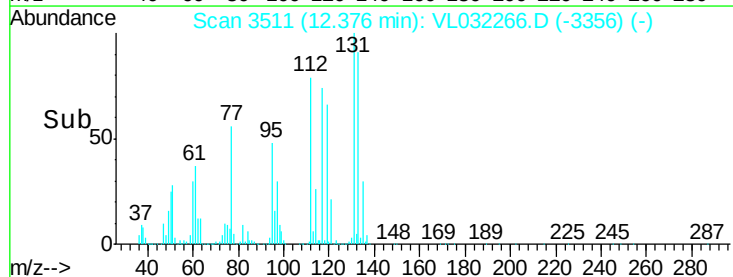
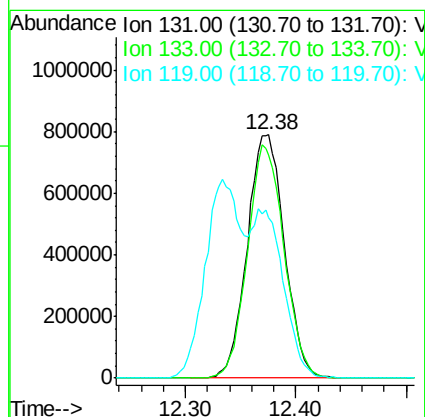
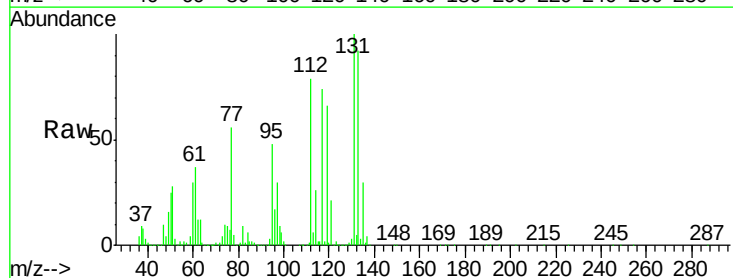
Manual Integrations
APPROVED

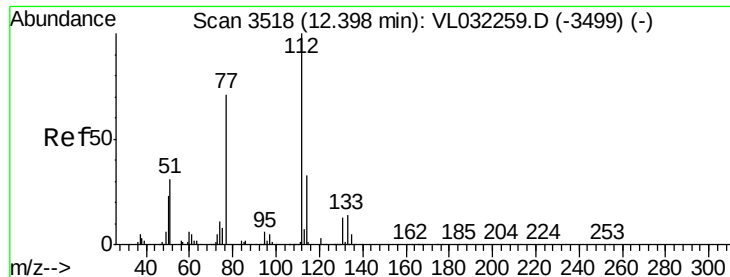
MMDadoda
7/20/2018 2:53:10 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.13 ppbv
RT: 12.38 min Scan# 3511
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion:131 Resp: 1840630
Ion Ratio Lower Upper
131 100
133 94.5 75.4 113.0
119 141.0 49.4 74.2#





#57

Chlorobenzene

Concen: 9.00 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 112 Resp: 3342282

Ion Ratio Lower Upper

112 100

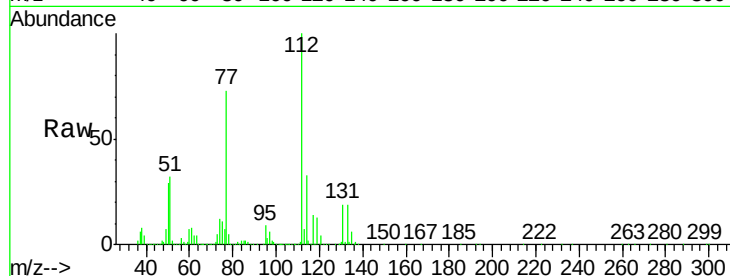
77 72.5 58.2 87.4

114 33.1 29.5 36.1

Manual Integrations
APPROVED

MMDadoda

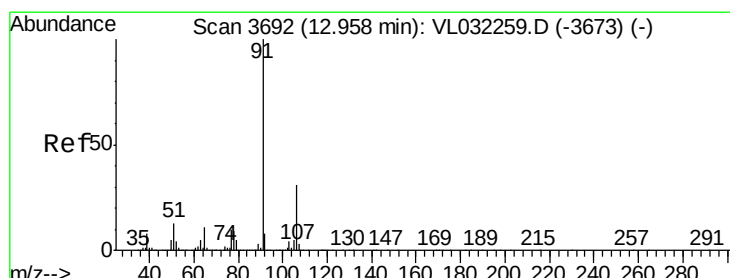
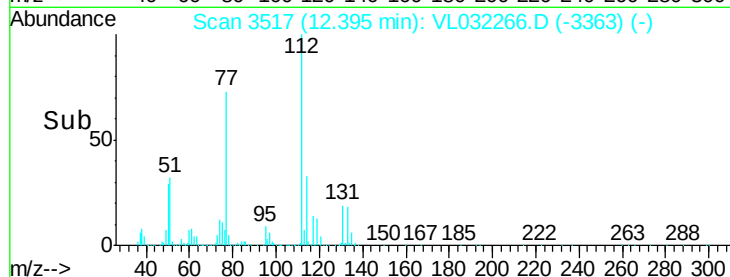
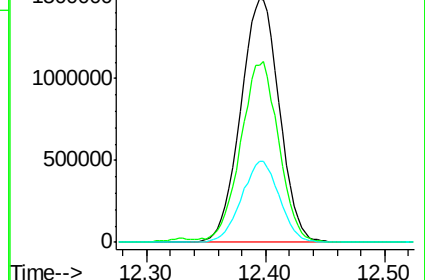
7/20/2018 2:53:10 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.91 ppbv

RT: 12.96 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VL032266.D

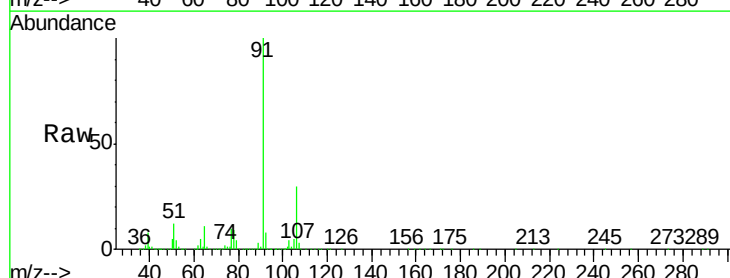
Acq: 18 Jul 2018 17:26

Tgt Ion: 91 Resp: 6326503

Ion Ratio Lower Upper

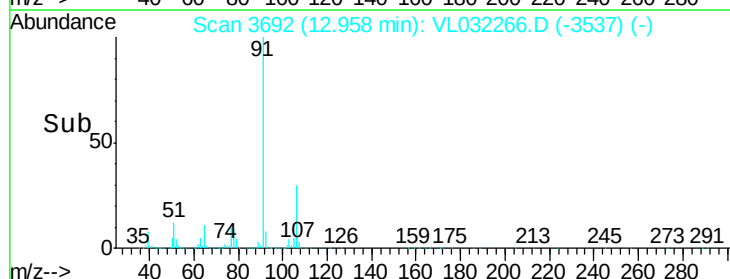
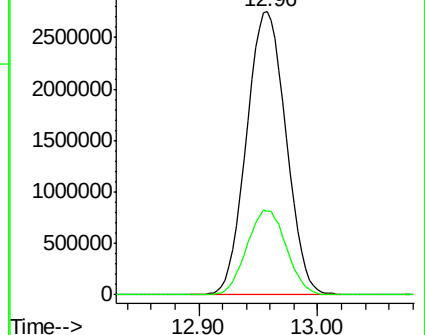
91 100

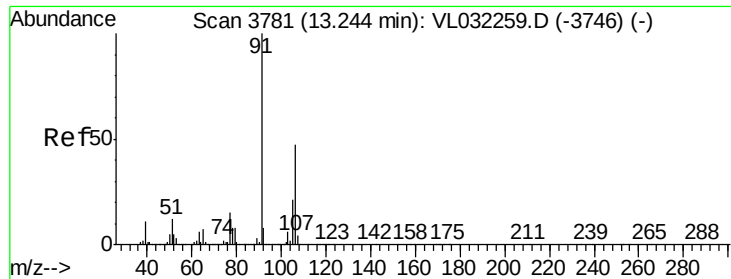
106 29.5 24.5 36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





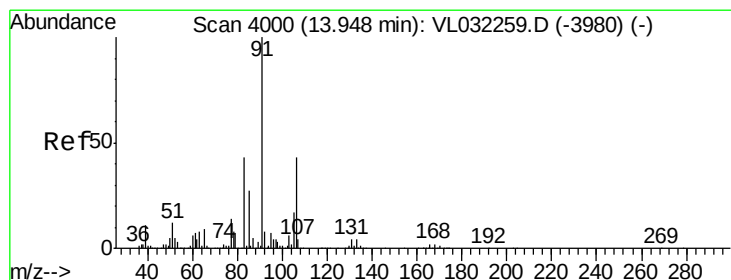
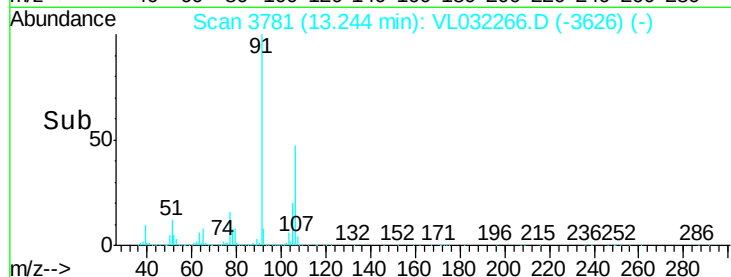
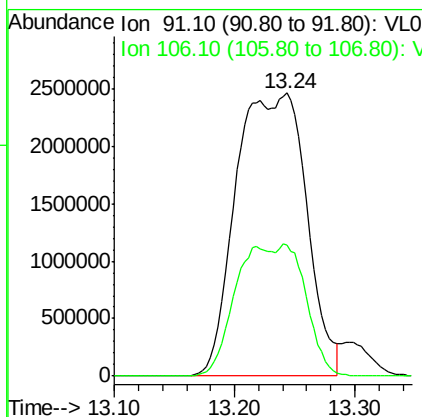
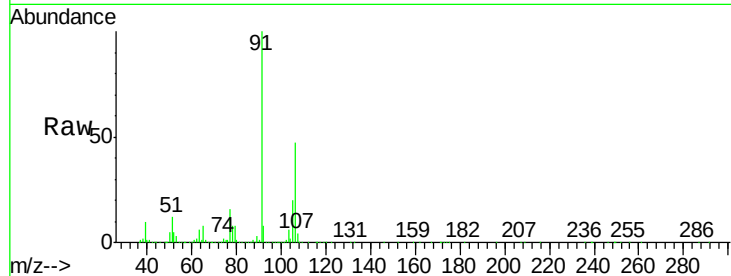
#59
m/p-Xylene
Concen: 18.47 ppbv m
RT: 13.24 min Scan# 3781
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion: 91 Resp:1005512
Ion Ratio Lower Upper
91 100
106 45.6 36.2 54.2

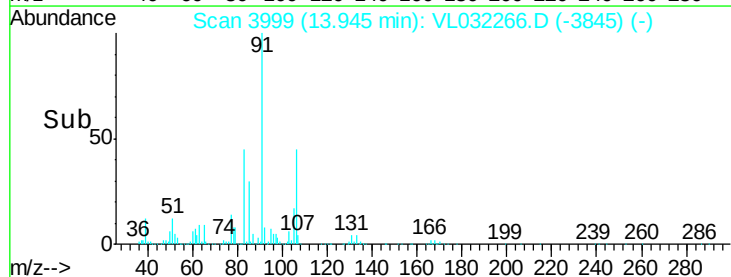
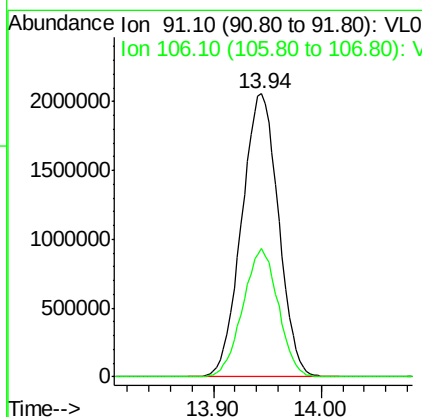
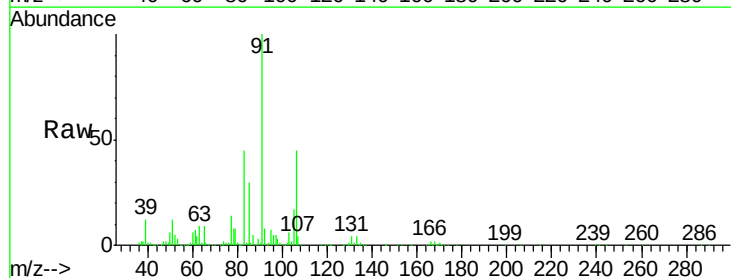
Manual Integrations
APPROVED

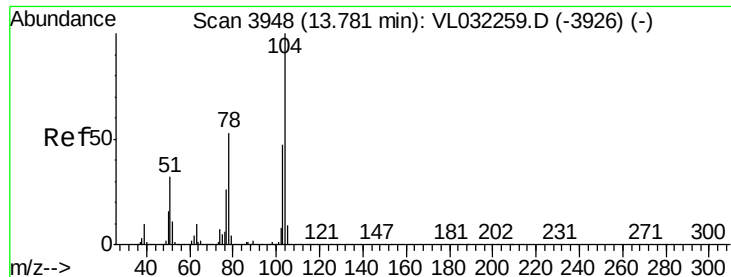
MMDadoda
7/20/2018 2:53:10 PM



#60
o-Xylene
Concen: 8.98 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 91 Resp: 4868326
Ion Ratio Lower Upper
91 100
106 43.8 21.7 65.1





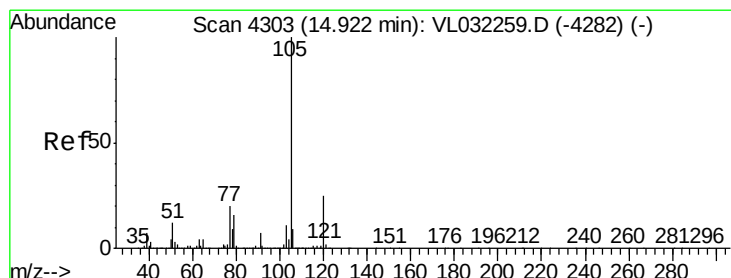
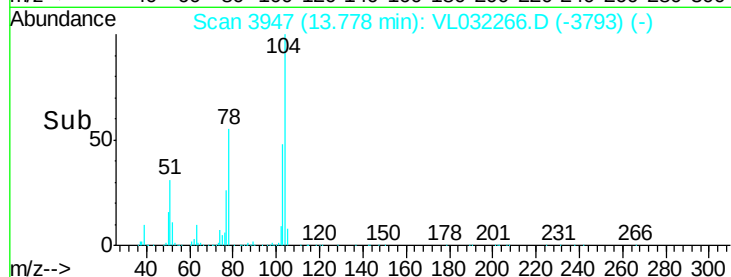
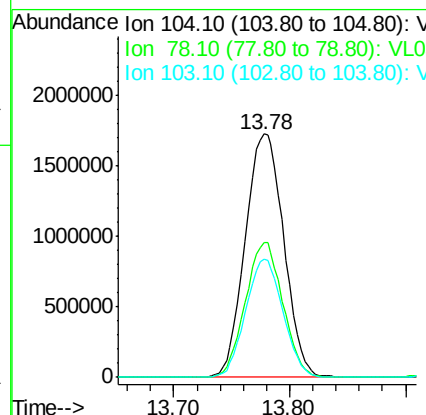
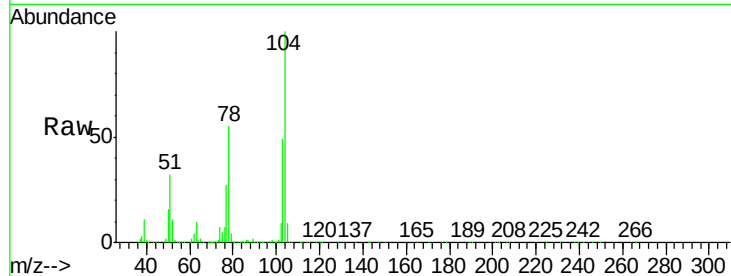
#61
Stvrene
Concen: 9.92 ppbv
RT: 13.78 min Scan# 3947
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.0	43.2	64.8
103	46.9	37.8	56.6

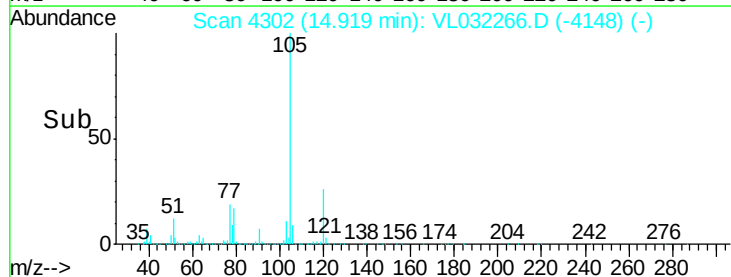
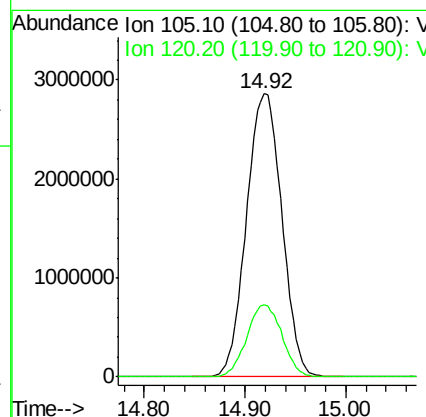
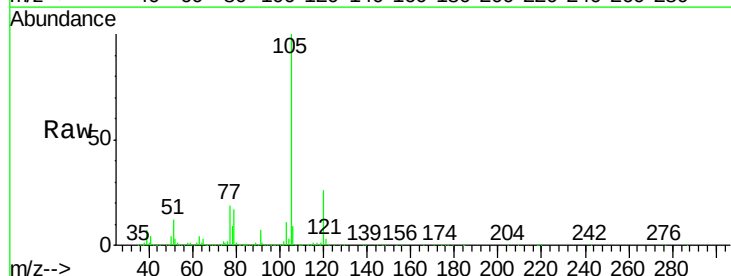
Manual Integrations
APPROVED

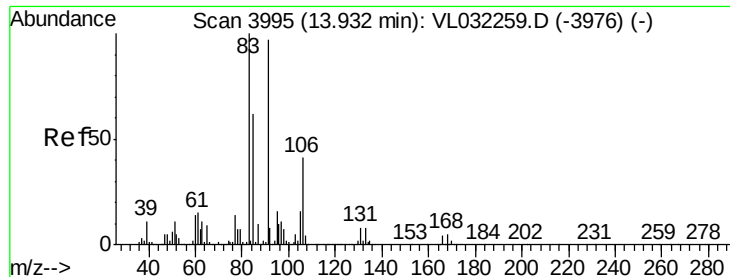
MMDadoda
7/20/2018 2:53:10 PM



#62
Isopropylbenzene
Concen: 8.96 ppbv
RT: 14.92 min Scan# 4302
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.2	30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 7.78 ppbv

RT: 13.93 min Scan# 3993

Delta R.T. -0.01 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

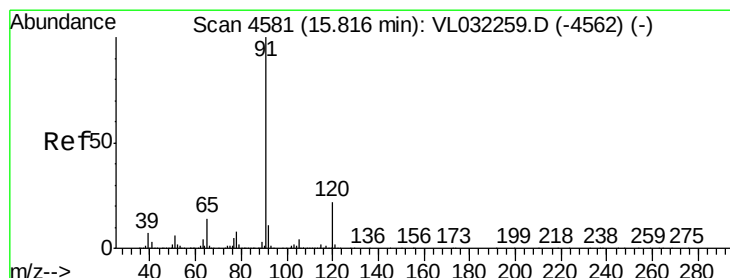
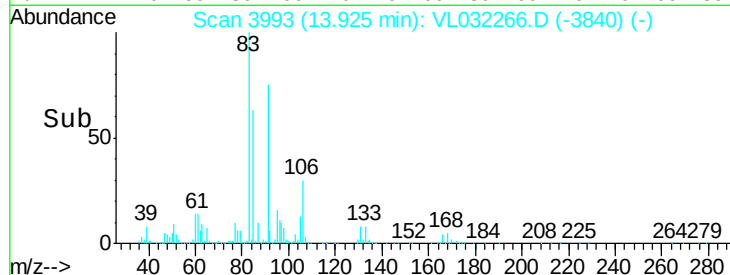
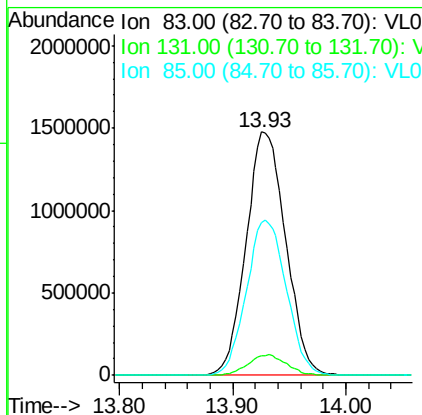
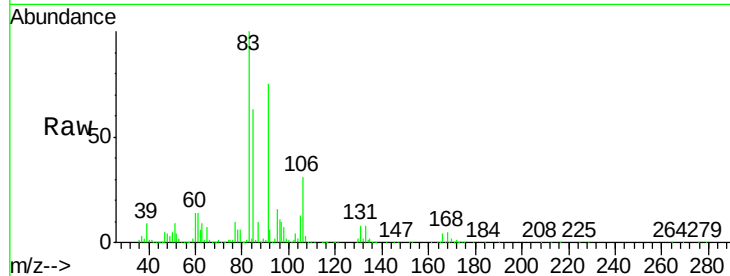
ClientSampleId :

ICVVL071818

Tot Ion:	83	Resp:	3597473
Ion	Ratio	Lower	Upper
83	100		
131	8.2	4.2	12.6
85	64.4	32.2	96.6

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#64

n-propylbenzene

Concen: 9.05 ppbv

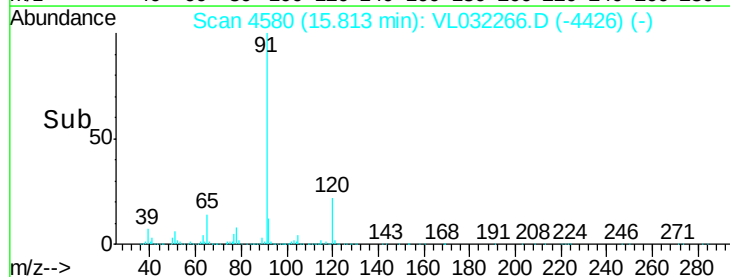
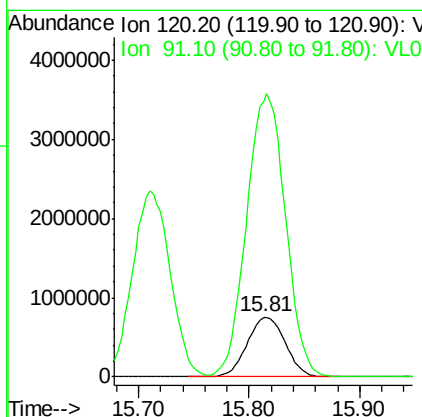
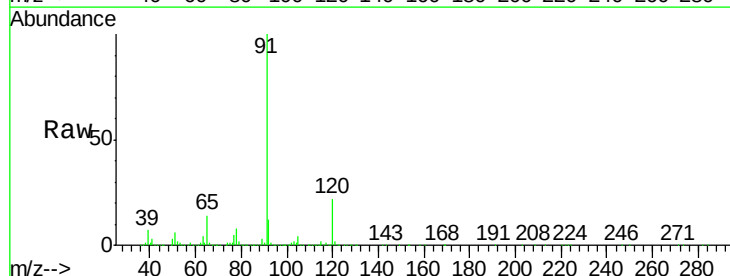
RT: 15.81 min Scan# 4580

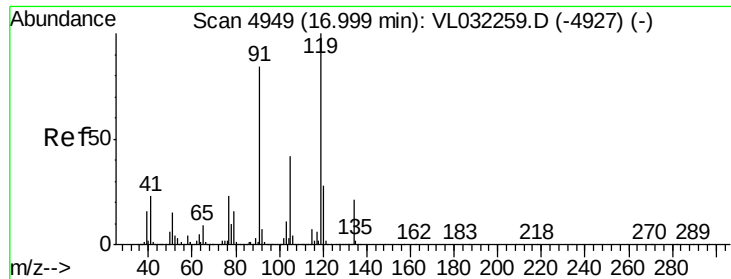
Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion:	120	Resp:	1806582
Ion	Ratio	Lower	Upper
120	100		
91	484.6	384.4	576.6





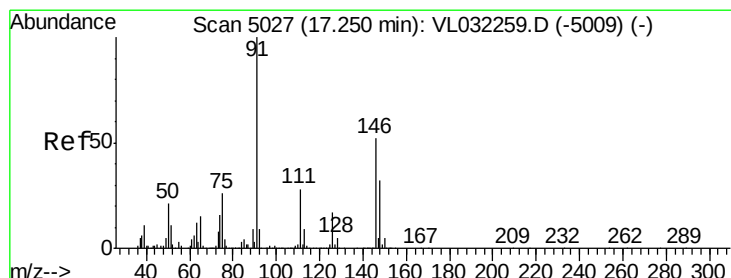
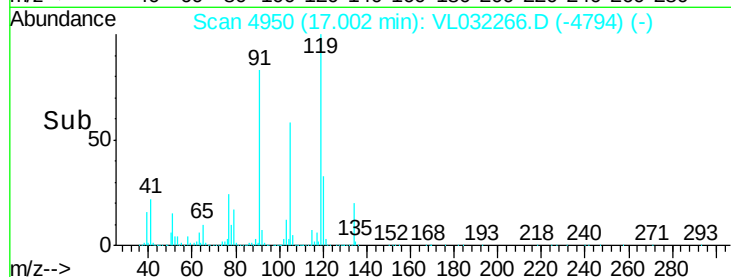
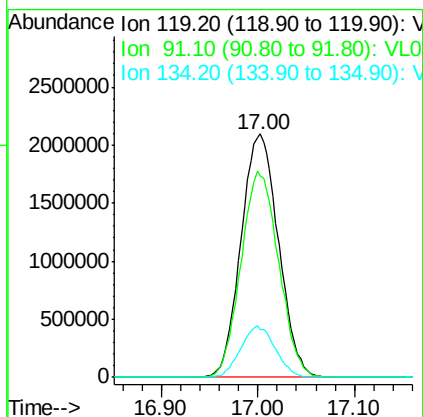
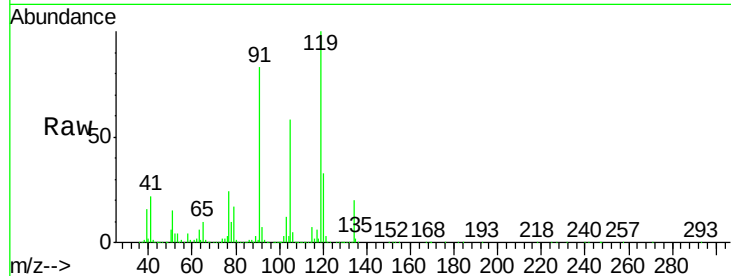
#65
tert-Butylbenzene
Concen: 8.50 ppbv
RT: 17.00 min Scan# 4950
Delta R.T. 0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071818

Tot Ion:119 Resp: 5631025
Ion Ratio Lower Upper
119 100
91 85.1 68.2 102.4
134 19.6 15.6 23.4

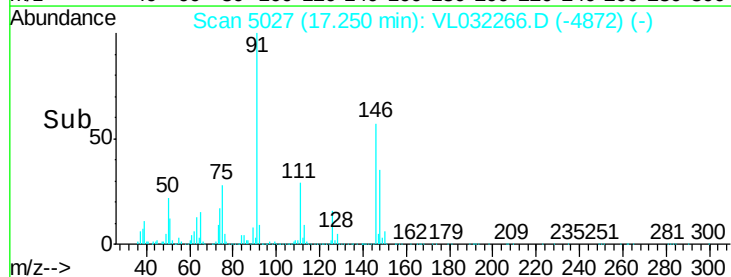
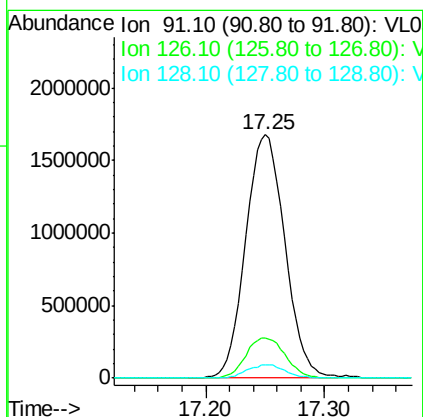
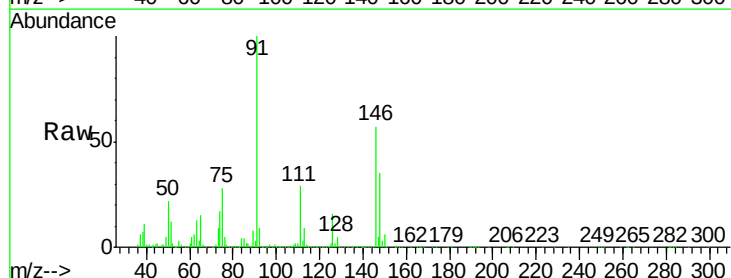
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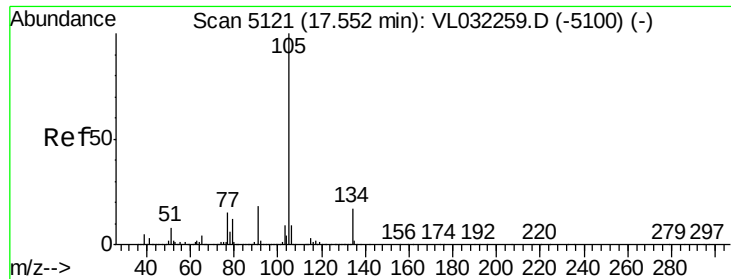
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#66
Benzyl Chloride
Concen: 10.29 ppbv
RT: 17.25 min Scan# 5027
Delta R.T. -0.00 min
Lab File: VL032266.D
Acq: 18 Jul 2018 17:26

Tgt Ion: 91 Resp: 3836064
Ion Ratio Lower Upper
91 100
126 16.7 13.4 20.2
128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.56 ppbv

RT: 17.55 min Scan# 5121

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 105 Resp: 8453235

Ion Ratio Lower Upper

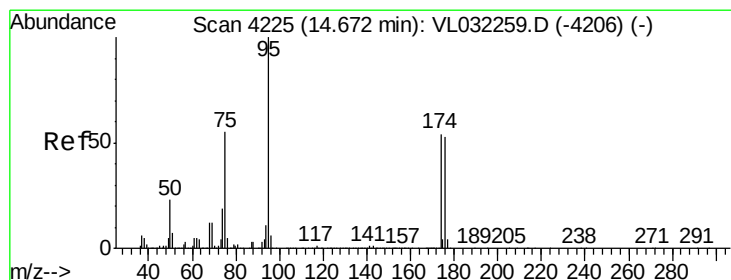
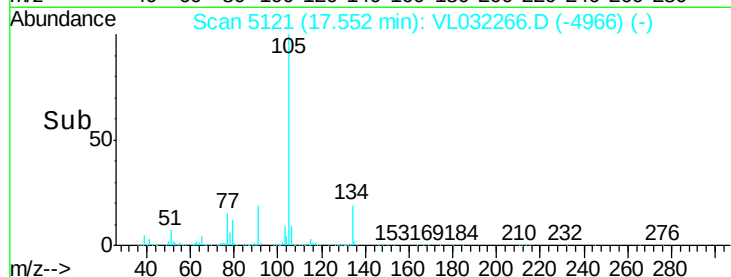
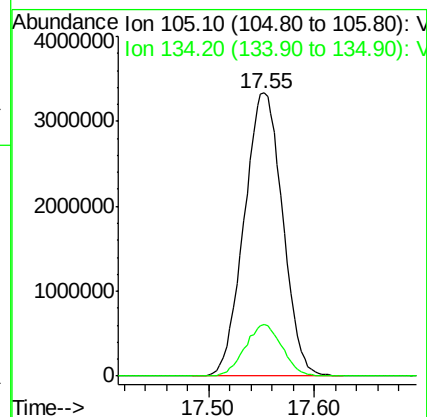
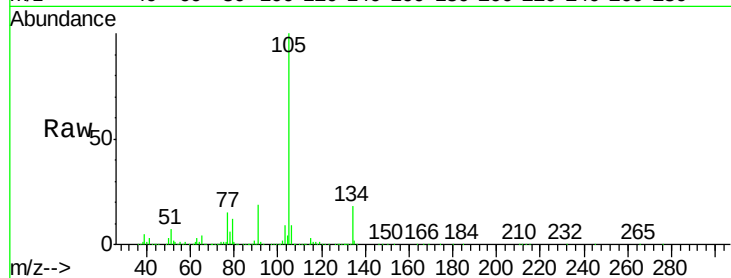
105 100

134 17.7 14.0 21.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.58 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

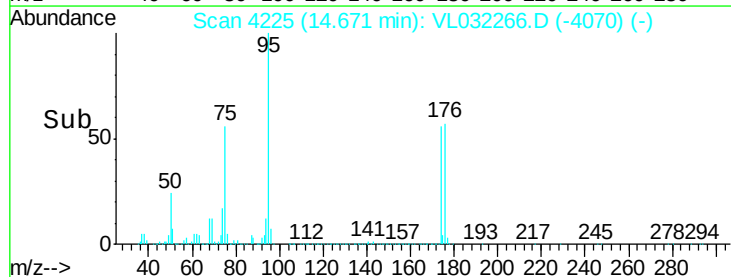
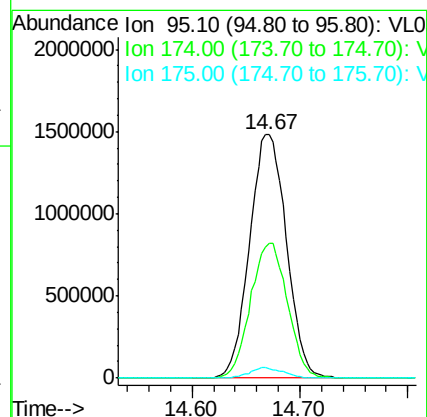
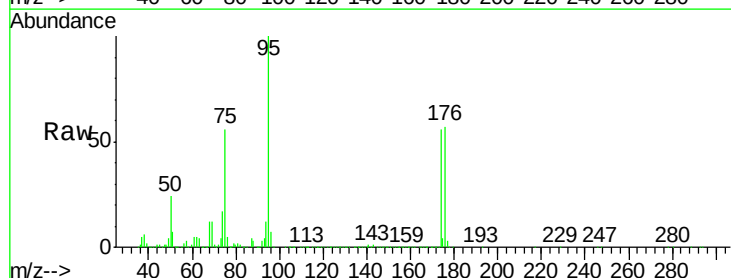
Tgt Ion: 95 Resp: 3516216

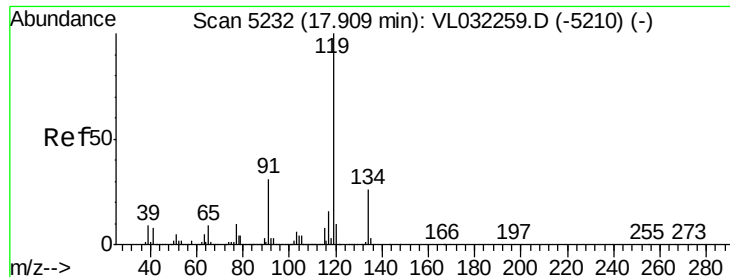
Ion Ratio Lower Upper

95 100

174 55.5 44.3 66.5

175 4.1 3.3 4.9





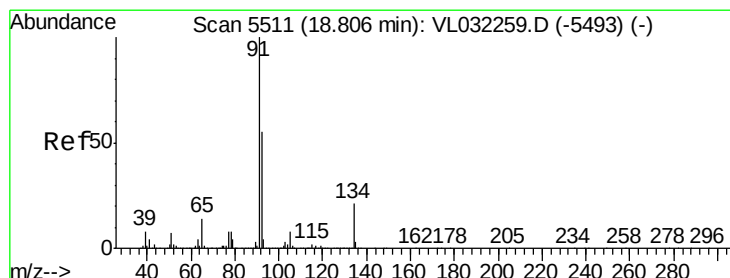
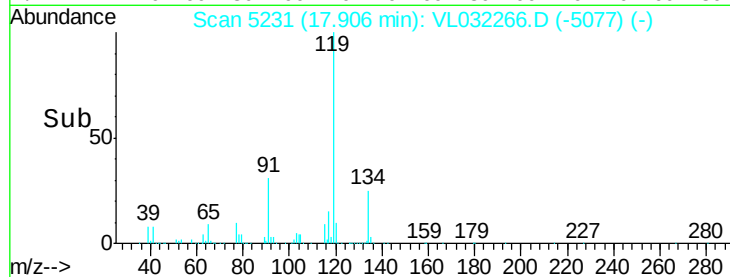
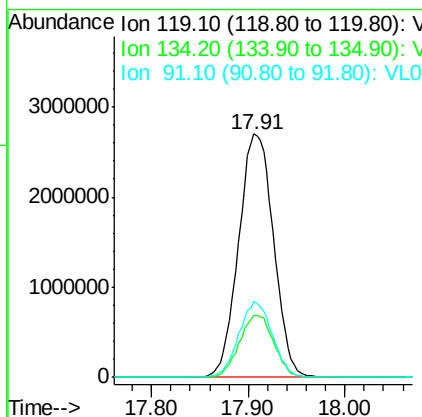
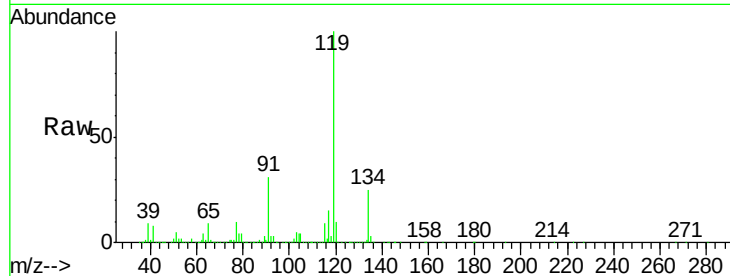
#69
 p-Isopropyltoluene
 Concen: 8.86 ppbv
 RT: 17.91 min Scan# 5231
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	29.9	24.1	36.1

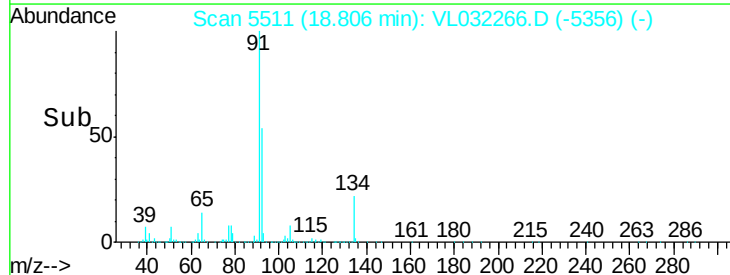
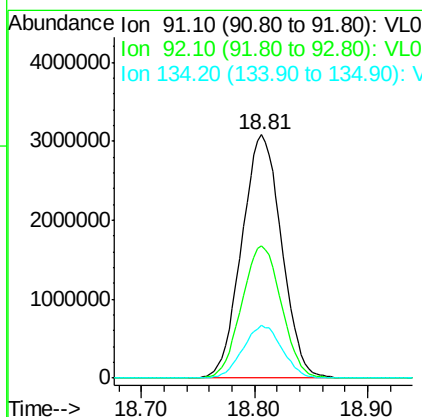
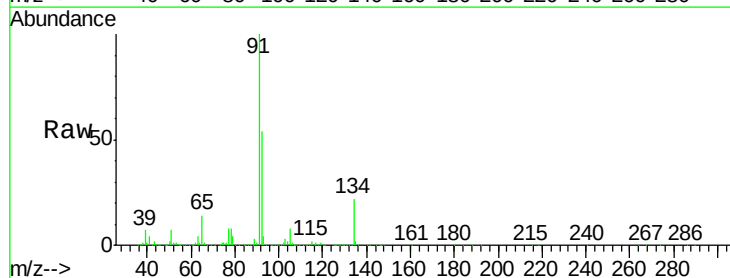
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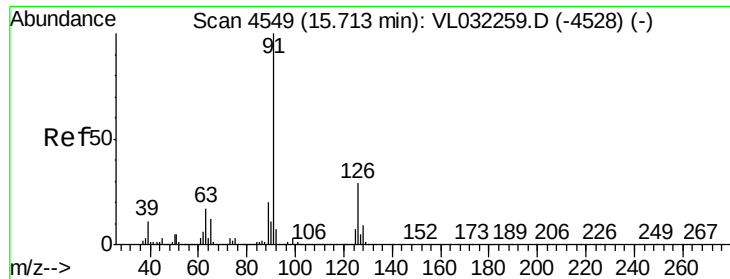
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#70
 n-Butylbenzene
 Concen: 8.85 ppbv
 RT: 18.81 min Scan# 5511
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.8	65.6
134	21.4	17.1	25.7





#71

2-Chlorotoluene

Concen: 8.96 ppbv

RT: 15.71 min Scan# 4548

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion: 91 Resp: 5583087

Ion Ratio Lower Upper

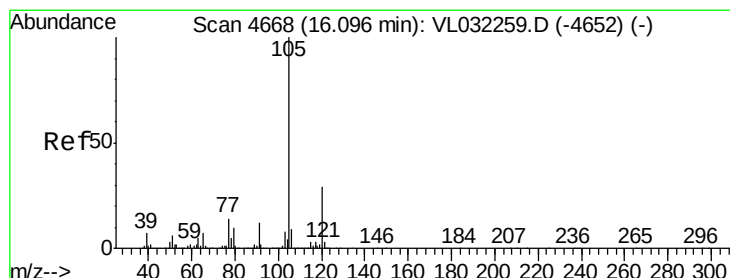
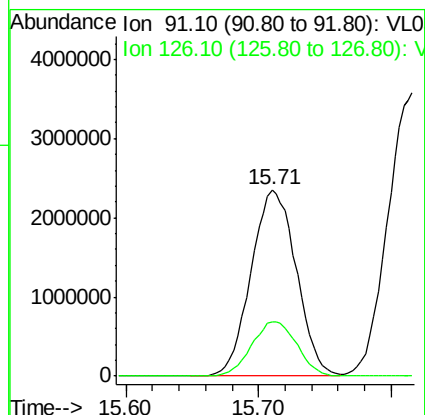
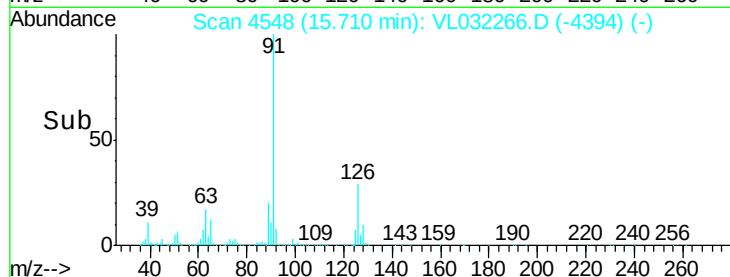
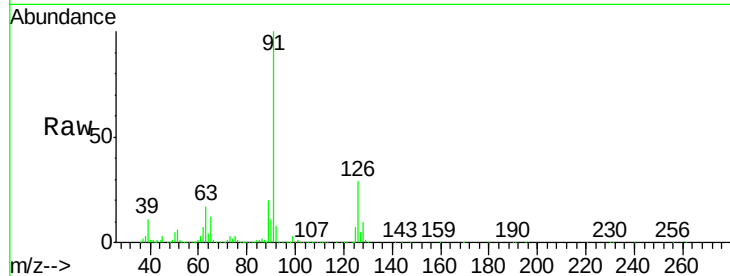
91 100

126 29.2 11.6 46.2

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#72

4-Ethyltoluene

Concen: 9.23 ppbv

RT: 16.09 min Scan# 4667

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Tgt Ion:105 Resp: 5778437

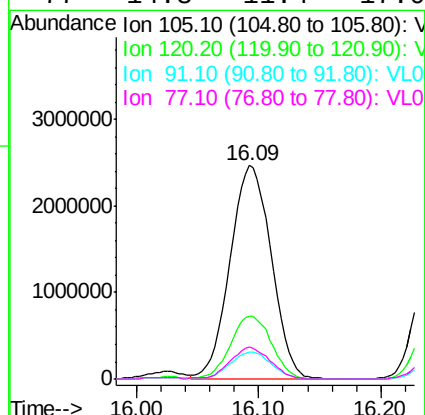
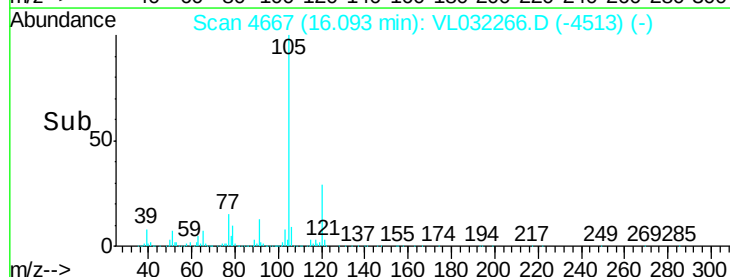
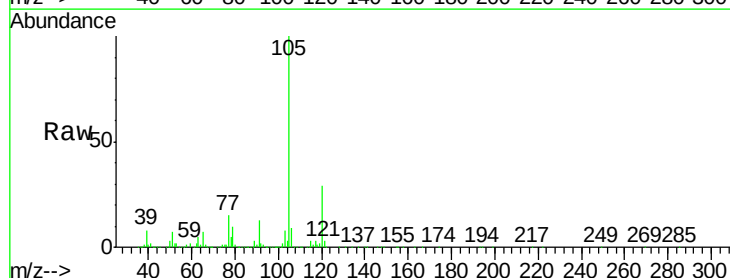
Ion Ratio Lower Upper

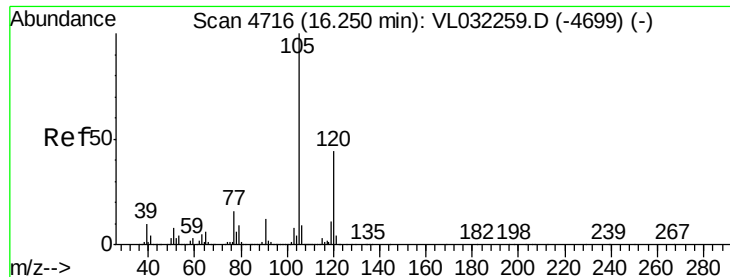
105 100

120 29.1 23.0 34.6

91 12.7 10.1 15.1

77 14.3 11.4 17.0





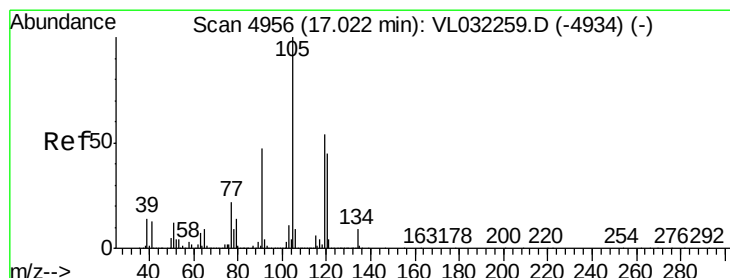
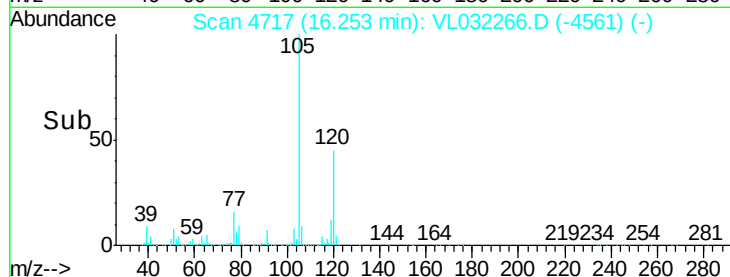
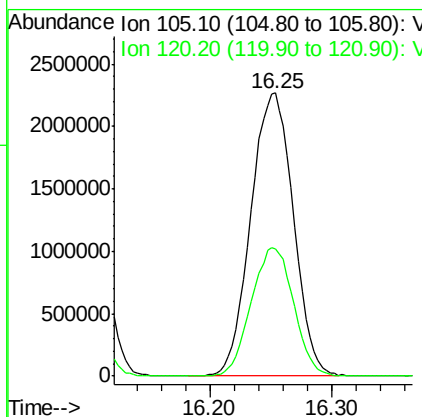
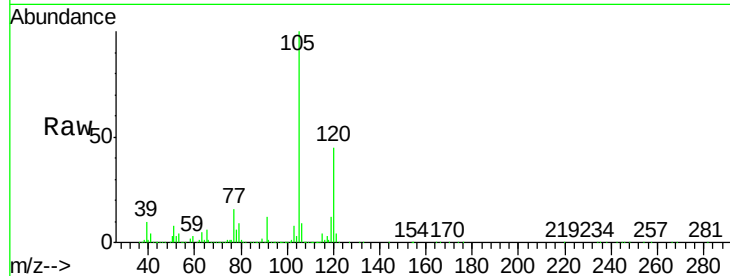
#73
 1,3,5-Trimethylbenzene
 Concen: 8.92 ppbv
 RT: 16.25 min Scan# 4717
 Delta R.T. 0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampled :
 ICVVL071818

Tot Ion:105 Resp: 5460618
 Ion Ratio Lower Upper
 105 100
 120 44.8 35.5 53.3

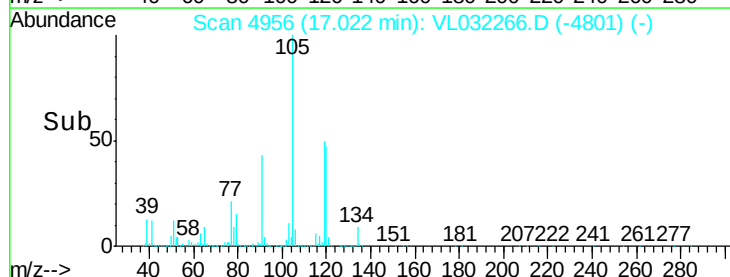
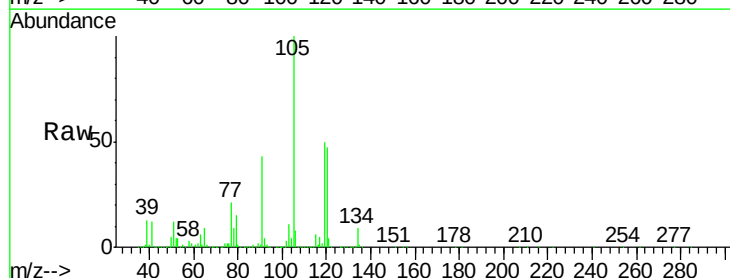
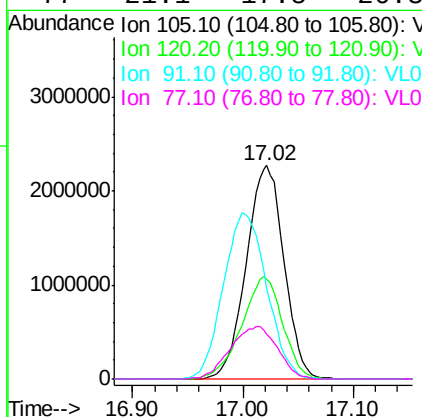
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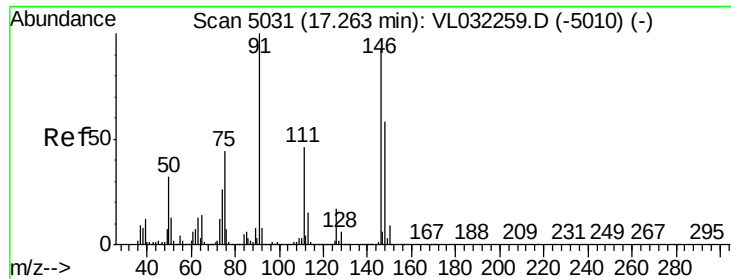
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.37 ppbv
 RT: 17.02 min Scan# 4956
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion:105 Resp: 5362235
 Ion Ratio Lower Upper
 105 100
 120 46.5 35.8 53.6
 91 42.6 38.2 57.4
 77 21.1 17.5 26.3





#75

1,3-Dichlorobenzene

Concen: 8.19 ppbv

RT: 17.26 min Scan# 5029

Delta R.T. -0.01 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion:146 Resp: 2918103

Ion Ratio Lower Upper

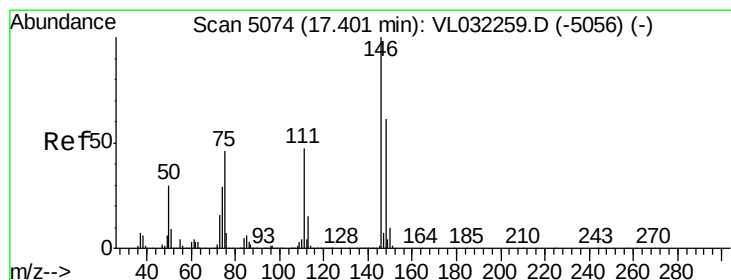
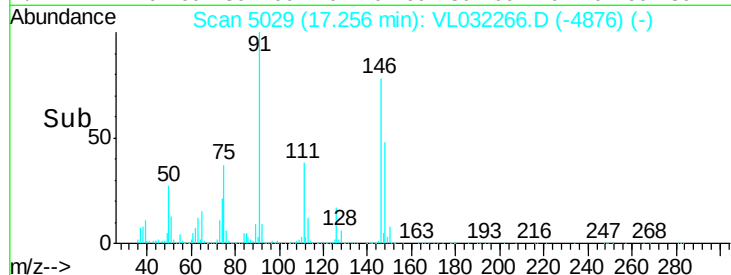
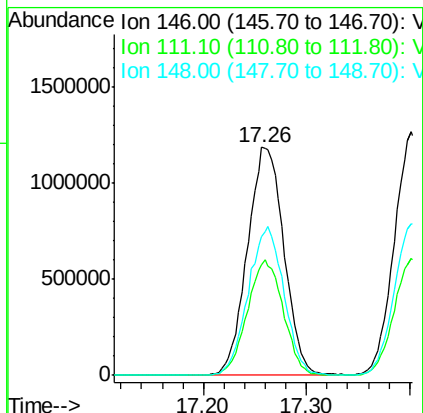
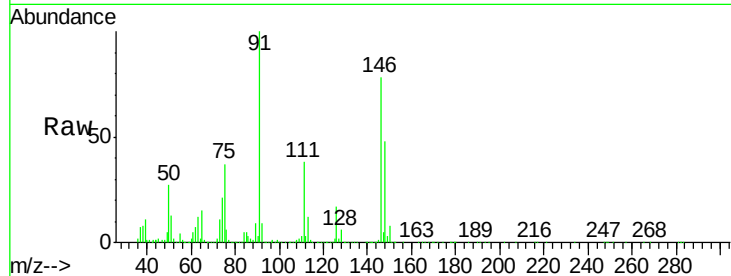
146 100

111 49.8 25.1 75.4

148 63.6 31.8 95.3

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#76

1,4-Dichlorobenzene

Concen: 8.43 ppbv

RT: 17.40 min Scan# 5074

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

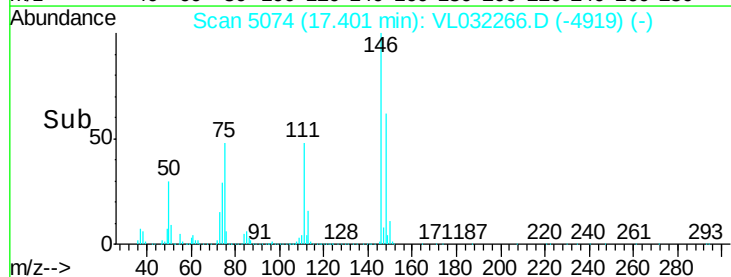
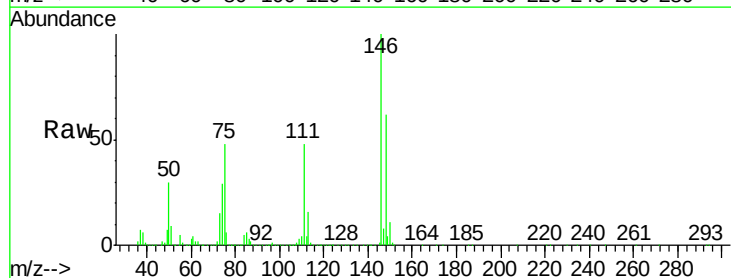
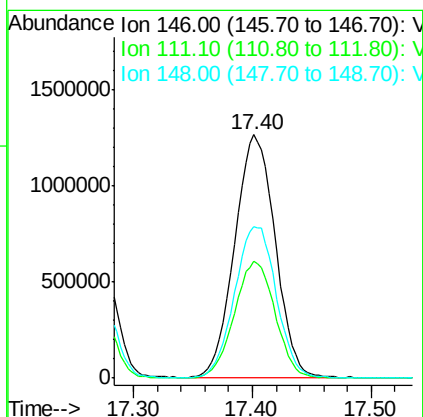
Tgt Ion:146 Resp: 2977152

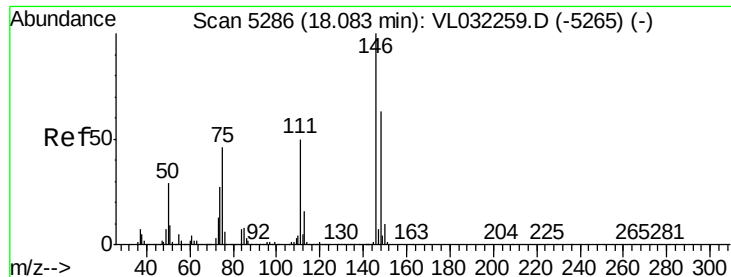
Ion Ratio Lower Upper

146 100

111 48.5 24.1 72.2

148 64.5 31.9 95.9





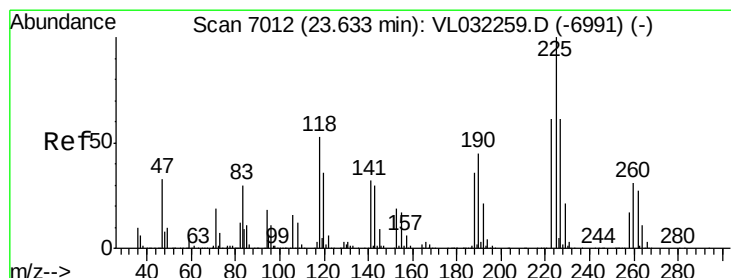
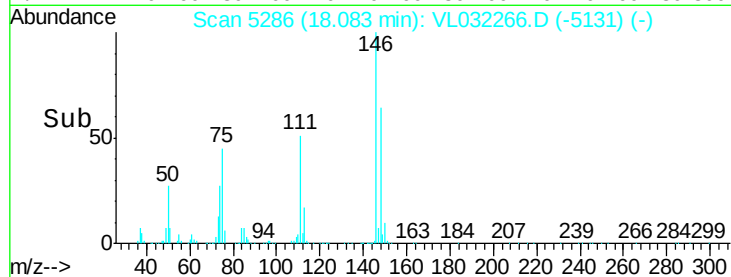
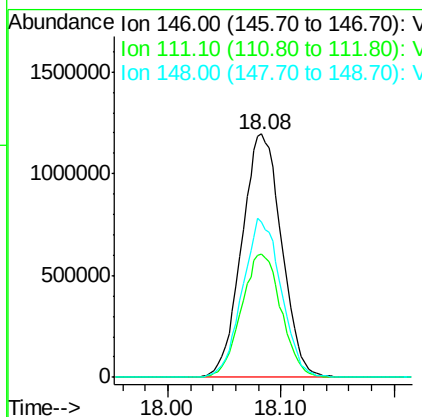
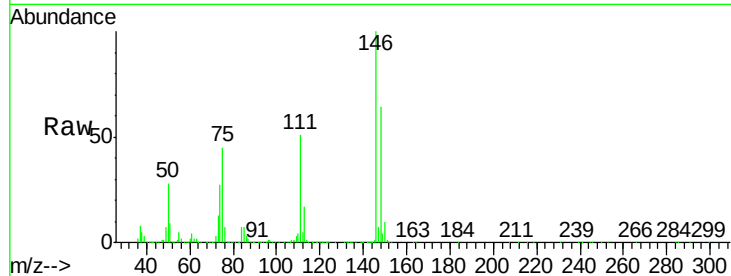
#77
 1,2-Dichlorobenzene
 Concen: 8.47 ppbv
 RT: 18.08 min Scan# 5286
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.8	25.6	76.8
148	63.6	31.9	95.5

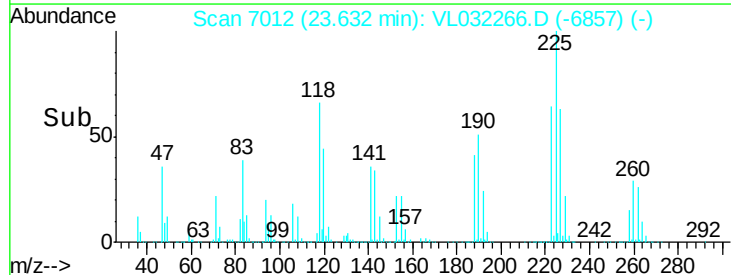
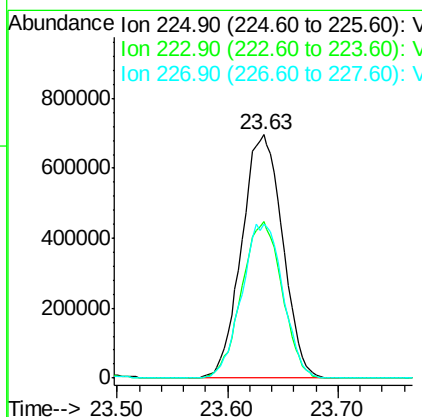
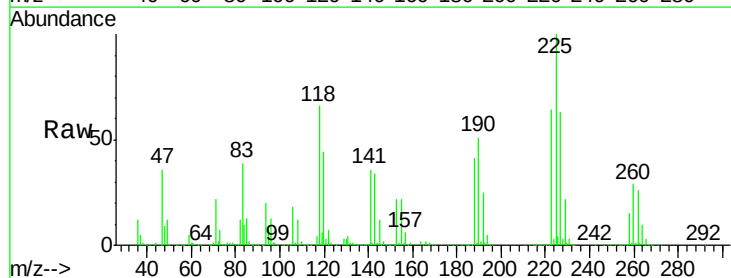
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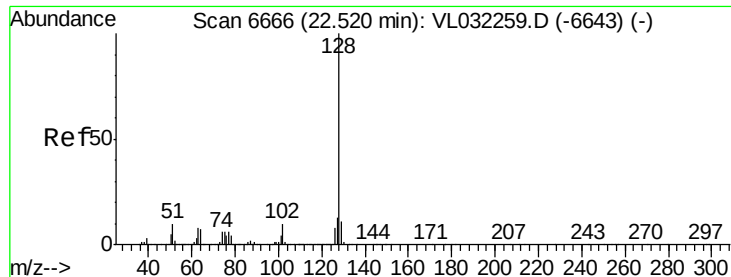
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#78
 Hexachloro-1,3-Butadiene
 Concen: 16.02 ppbv
 RT: 23.63 min Scan# 7012
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.6	75.8
227	64.0	51.5	77.3





#79

Naphthalene

Concen: 9.49 ppbv

RT: 22.52 min Scan# 6667

Delta R.T. 0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071818

Tot Ion:128 Resp: 5109026

Ion Ratio Lower Upper

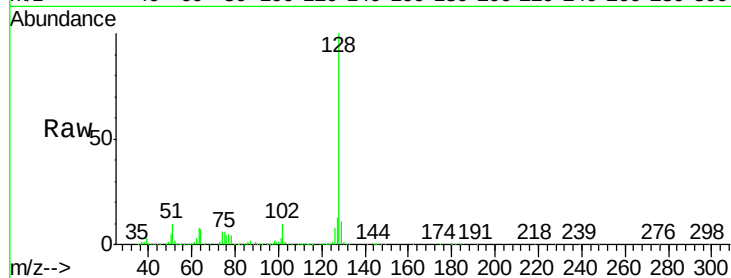
128 100

127 12.5 10.5 15.7

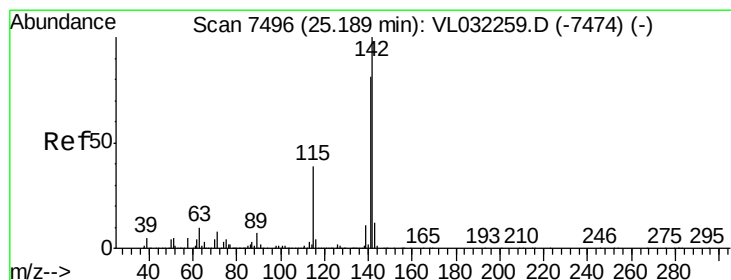
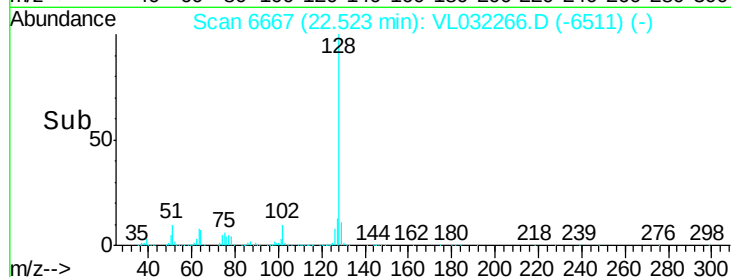
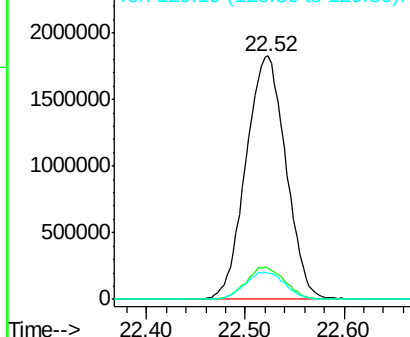
129 10.6 8.6 12.8

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



#80

Naphthalene, 2-methyl-

Concen: 11.03 ppbv

RT: 25.19 min Scan# 7495

Delta R.T. -0.00 min

Lab File: VL032266.D

Acq: 18 Jul 2018 17:26

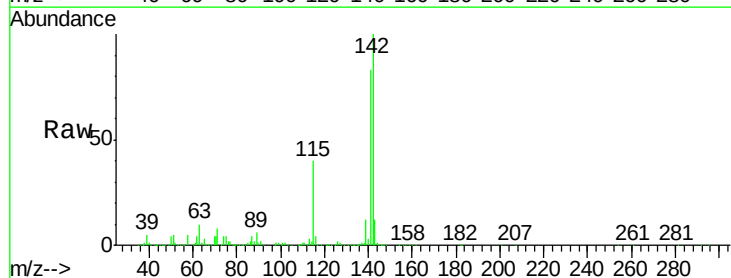
Tgt Ion:142 Resp: 2523090

Ion Ratio Lower Upper

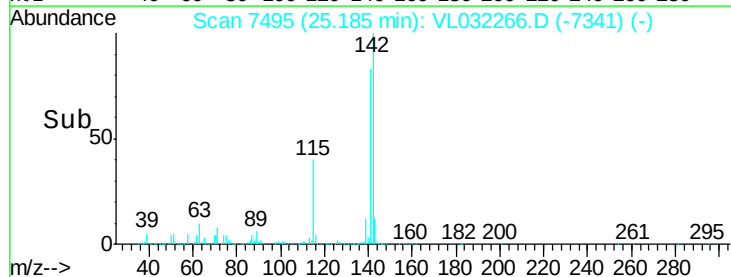
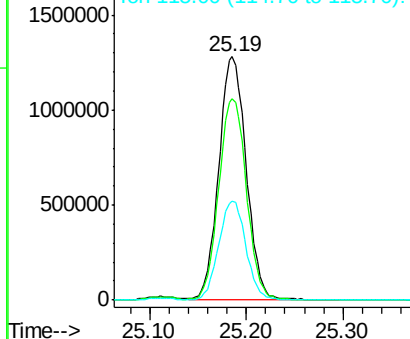
142 100

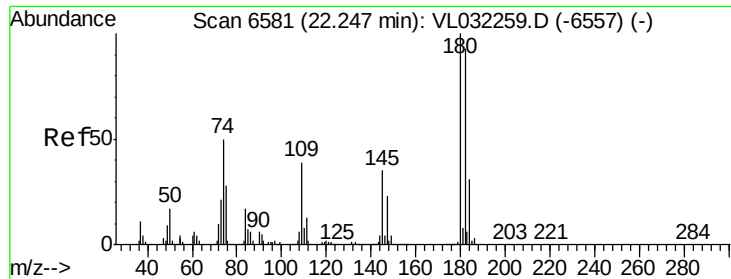
141 83.7 67.1 100.7

115 40.6 32.5 48.7



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





#81
 1,2,4-Trichlorobenzene
 Concen: 9.21 ppbv
 RT: 22.25 min Scan# 6581
 Delta R.T. -0.00 min
 Lab File: VL032266.D
 Acq: 18 Jul 2018 17:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071818

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.6	114.8
184	30.6	24.4	36.6

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:10 PM

