

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL070518\
 Data File : VL032203.D
 Acq On : 5 Jul 2018 12:17
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 6:19:01 PM

Quant Time: Jul 16 18:04:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1499825	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4109981	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	4037440m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3059364	9.91	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	1612852	8.17	ppbv	98
3) Chlorodifluoromethane	3.07	51	1515511	8.27	ppbv	97
4) Chloromethane	3.22	50	868916	8.88	ppbv	100
5) Vinyl Chloride	3.35	62	839680	8.50	ppbv	98
6) Bromomethane	3.58	94	487362	8.66	ppbv	100
7) Chloroethane	3.66	64	308546	8.83	ppbv	99
8) Dichlorotetrafluoroethane	3.28	85	1828953	8.30	ppbv	93
9) Propene	3.09	41	723424	8.47	ppbv	98
10) Heptane	8.34	43	2552735	10.25	ppbv	99
11) Trichlorofluoromethane	4.07	101	1806733	8.46	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1200629	8.44	ppbv	92
13) Ethanol	3.71	45	195184	7.54	ppbv	95
14) Bromoethene	3.85	108	552328	8.16	ppbv	98
15) Acetone	3.97	43	1378486	7.86	ppbv	99
16) 1,3-Butadiene	3.42	39	880800	10.52	ppbv #	78
17) tert-Butyl alcohol	4.43	59	1164470	10.43	ppbv	99
18) 1,1-Dichloroethene	4.42	96	556313	8.17	ppbv	99
19) Isopropyl Alcohol	4.09	45	1166576	8.01	ppbv #	41
20) Methylene Chloride	4.48	84	477973	7.46	ppbv	94
21) Allyl Chloride	4.55	41	1000583	8.36	ppbv	98
22) trans-1,2-Dichloroethene	5.04	96	802007	11.27	ppbv	99
23) Vinyl Acetate	5.23	43	3049321	9.59	ppbv	98
24) 1,1-Dichloroethane	5.17	63	2354169	11.56	ppbv	99
25) Ethyl Acetate	5.85	43	3338906	9.20	ppbv	99
26) Hexane	5.86	57	1508896	9.03	ppbv	95
27) Carbon Disulfide	4.69	76	1455385	8.76	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	3274738	11.09	ppbv	100
29) Chloroform	5.93	83	2297970	9.45	ppbv	98
30) Cyclohexane	7.34	84	1636053	10.39	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1598258	9.57	ppbv	96
32) 1,1,1-Trichloroethane	6.71	97	2731659	10.71	ppbv	98
34) 2-Butanone	5.41	43	2334777	8.95	ppbv	100
35) Carbon Tetrachloride	7.22	117	2673345	9.50	ppbv	98
36) Benzene	7.10	78	3779952	9.50	ppbv	98
37) 1,2-Dichloroethane	6.50	62	2125253	10.72	ppbv	97
38) Trichloroethene	8.05	130	1246219	8.02	ppbv	96
39) 1,2-Dichloropropane	7.83	63	1536458	9.79	ppbv	98
40) 1,4-Dioxane	8.04	88	542569m	8.82	ppbv	
41) Tetrahydrofuran	6.23	42	1598833	10.22	ppbv	99
42) Bromodichloromethane	8.01	83	2914338	9.38	ppbv	97
43) Methyl Methacrylate	8.23	69	1598758	9.70	ppbv	98

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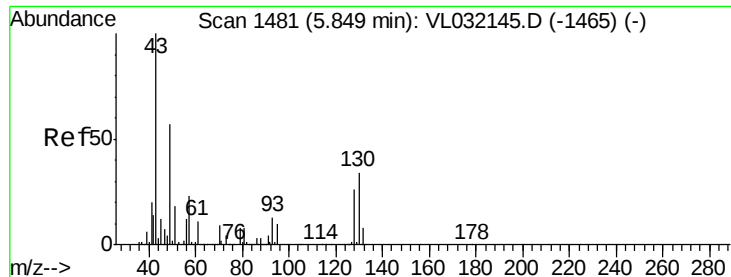
Manual Integrations
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Quant Time: Jul 16 18:04:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6345165	9.12	ppbv	100
45) t-1,3-Dichloropropene	9.51	75	2088899	10.22	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	2436221	9.99	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1509888	9.26	ppbv	98
48) Dibromochloromethane	10.55	129	2400989	9.51	ppbv	99
49) Bromoform	13.30	173	1979203	9.36	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	3927100	9.19	ppbv	99
51) 2-Hexanone	10.37	43	3528222	9.96	ppbv	99
52) Tetrachloroethene	11.47	164	1175467	8.13	ppbv	98
53) Toluene	10.04	91	4508685	9.38	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2318905	9.46	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.38	131	1739069	9.65	ppbv	95
57) Chlorobenzene	12.40	112	3227585	9.23	ppbv	95
58) Ethyl Benzene	12.96	91	6186645	9.51	ppbv	96
59) m/p-Xylene	13.25	91	9834105m	18.85	ppbv	
60) o-Xylene	13.95	91	4719615	9.07	ppbv	96
61) Styrene	13.78	104	4042411	9.48	ppbv	95
62) Isopropylbenzene	14.93	105	6852656	8.57	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.94	83	3327037	8.26	ppbv	100
64) n-propylbenzene	15.82	120	1771607	8.56	ppbv	86
65) tert-Butylbenzene	17.01	119	5593589	7.96	ppbv	93
66) Benzyl Chloride	17.26	91	3748154	8.63	ppbv	95
67) sec-Butylbenzene	17.56	105	8324467	8.09	ppbv	98
69) p-Isopropyltoluene	17.91	119	6653894	8.06	ppbv	96
70) n-Butylbenzene	18.81	91	7378591	8.56	ppbv	98
71) 2-Chlorotoluene	15.72	91	5469661	8.88	ppbv	95
72) 4-Ethyltoluene	16.10	105	5729241	8.53	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	5415723	8.56	ppbv	95
74) 1,2,4-Trimethylbenzene	17.02	105	5256220	8.23	ppbv	93
75) 1,3-Dichlorobenzene	17.27	146	2846822	7.84	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	2946422	8.00	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2854372	7.86	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	905184	7.16	ppbv	100
79) Naphthalene	22.53	128	5211762	8.98	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	3007264	14.35	ppbv	98
81) 1,2,4-Trichlorobenzene	22.25	180	2408189	9.19	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

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VSTDCCC010

Tot Ion: 49 Resp: 1499825

Ion Ratio Lower Upper

49 100

128 43.2 23.4 70.0

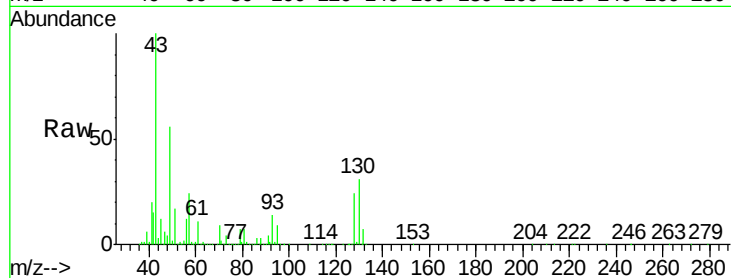
130 55.0 30.3 90.9

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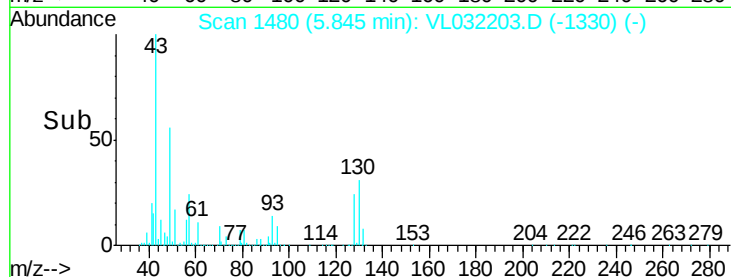


Abundance Ion 49.10 (48.80 to 49.80): VL0

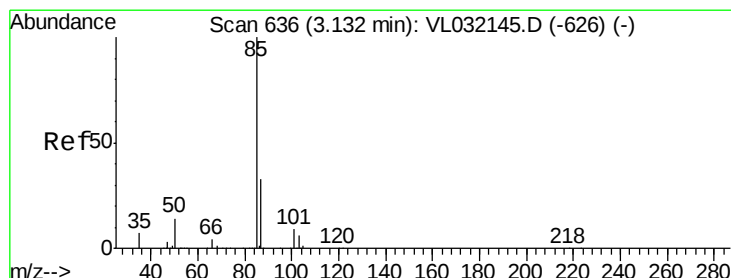
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 8.17 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032203.D

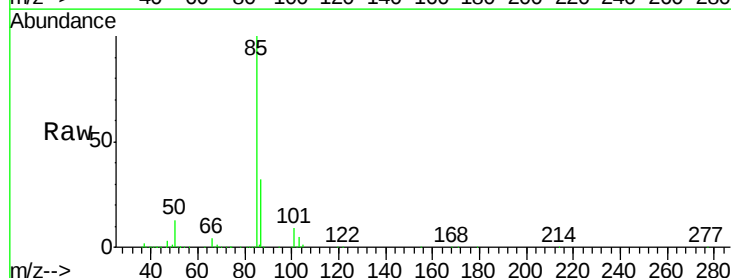
Acq: 5 Jul 2018 12:17

Tgt Ion: 85 Resp: 1612852

Ion Ratio Lower Upper

85 100

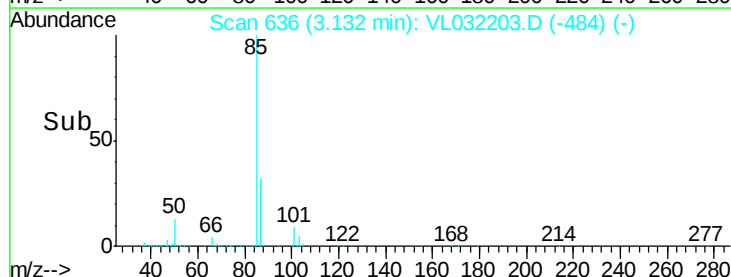
87 32.0 26.7 40.1



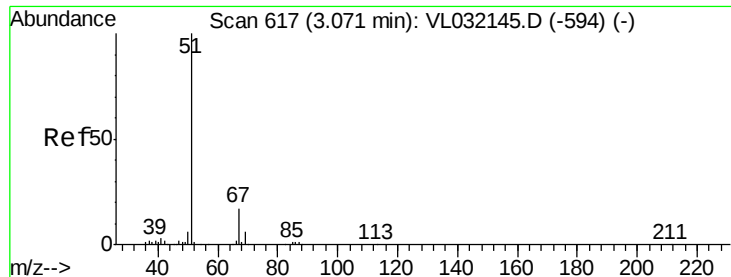
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 8.27 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1515511

Ion Ratio Lower Upper

51 100

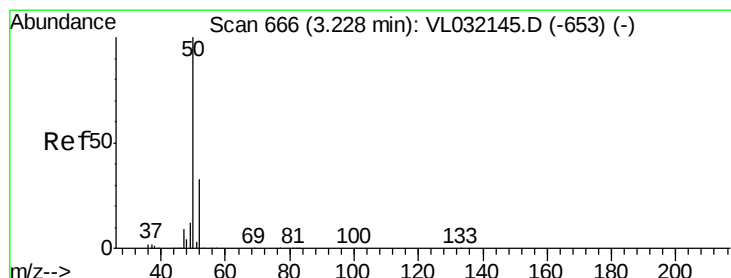
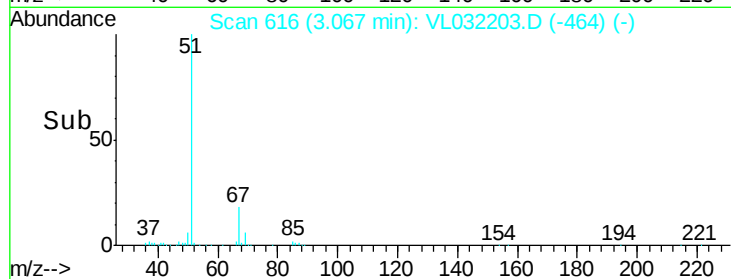
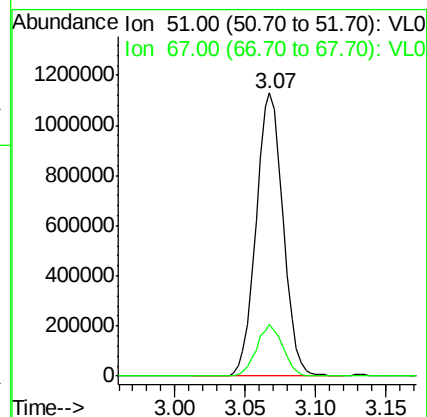
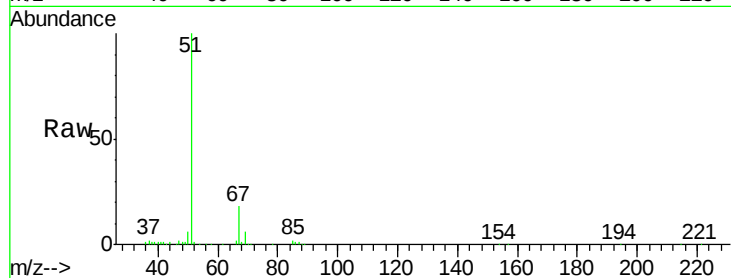
67 18.0 13.2 19.8

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#4

Chloromethane

Concen: 8.88 ppbv

RT: 3.22 min Scan# 665

Delta R.T. -0.01 min

Lab File: VL032203.D

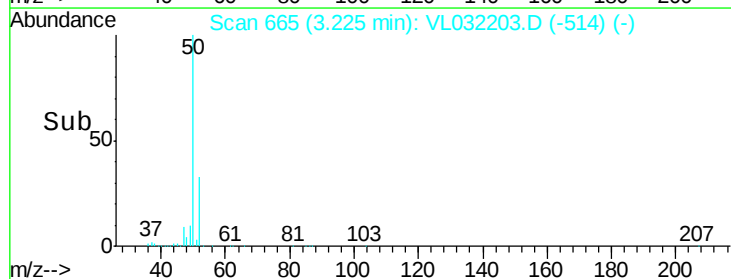
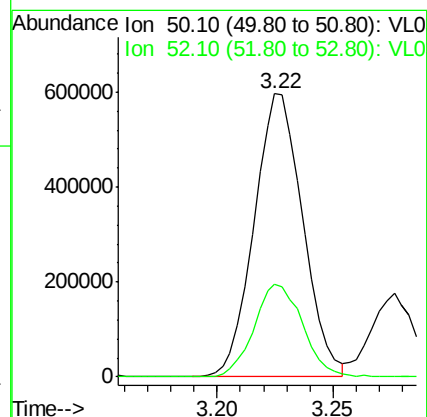
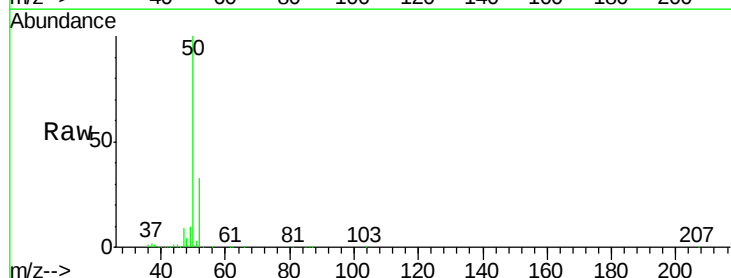
Acq: 5 Jul 2018 12:17

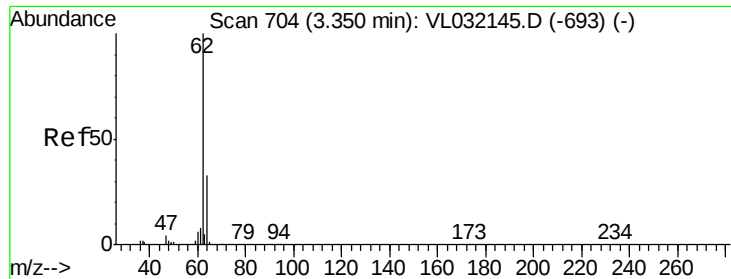
Tgt Ion: 50 Resp: 868916

Ion Ratio Lower Upper

50 100

52 32.6 26.0 39.0





#5

Vinyl Chloride

Concen: 8.50 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 839680

Ion Ratio Lower Upper

62 100

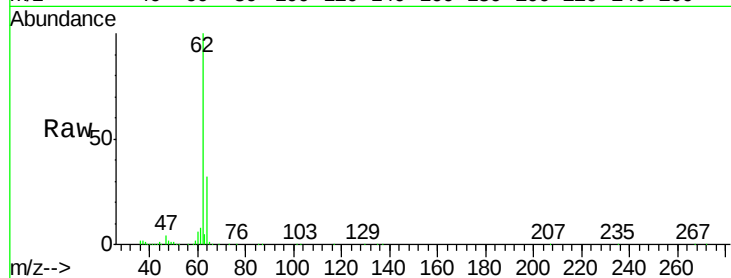
64 31.6 26.1 39.1

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

3.35

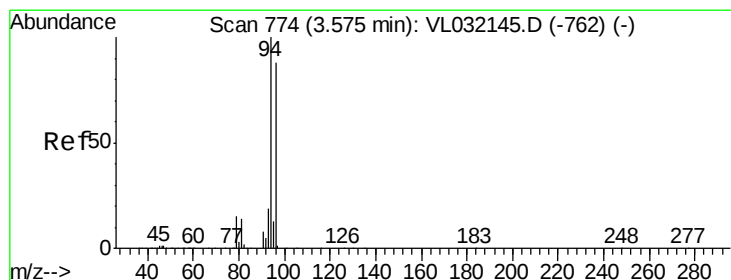
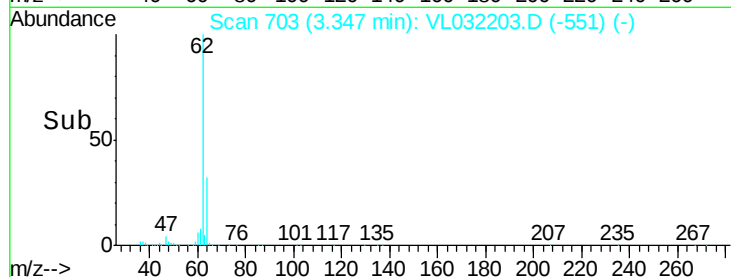
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 8.66 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032203.D

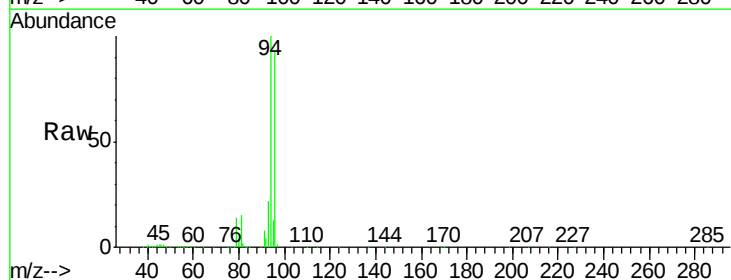
Acq: 5 Jul 2018 12:17

Tgt Ion: 94 Resp: 487362

Ion Ratio Lower Upper

94 100

96 93.1 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.58

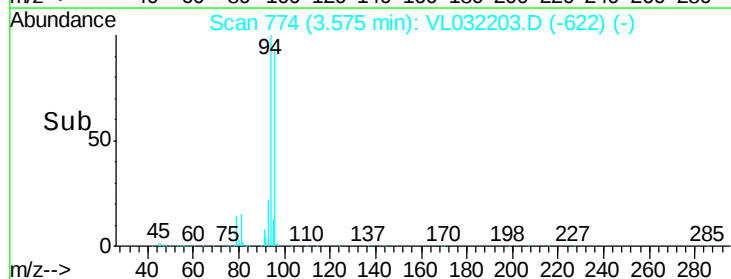
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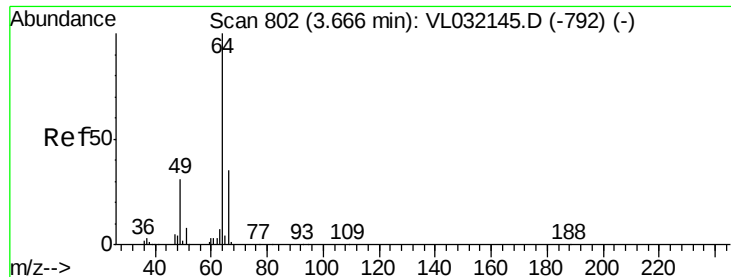
200000

100000

0

Time-->





#7

Chloroethane

Concen: 8.83 ppbv

RT: 3.66 min Scan# 801

Delta R.T. -0.01 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 308546

Ion Ratio Lower Upper

64 100

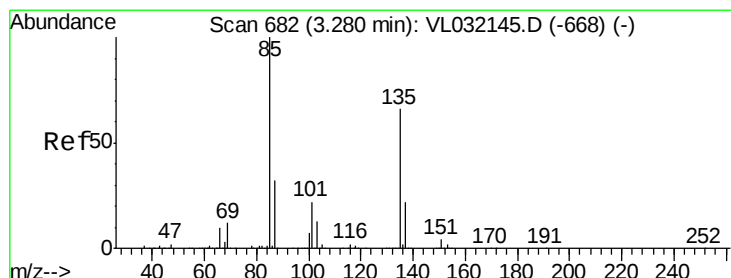
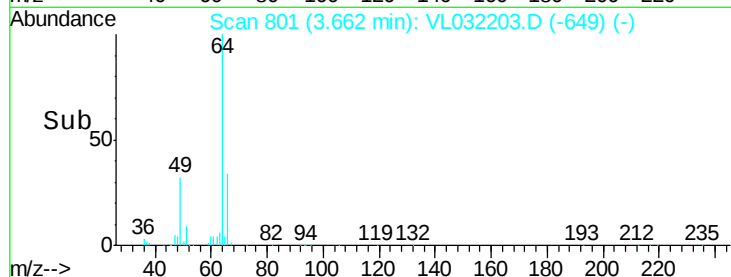
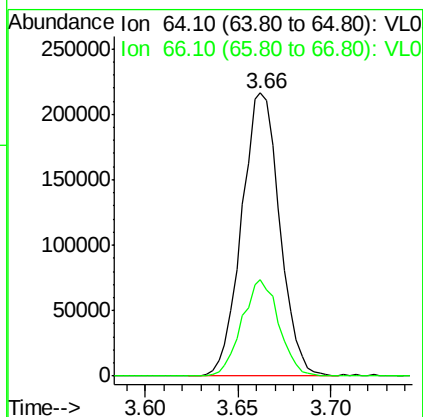
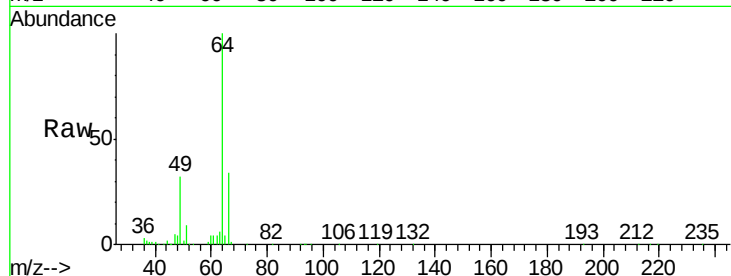
66 34.1 26.9 40.3

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.30 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032203.D

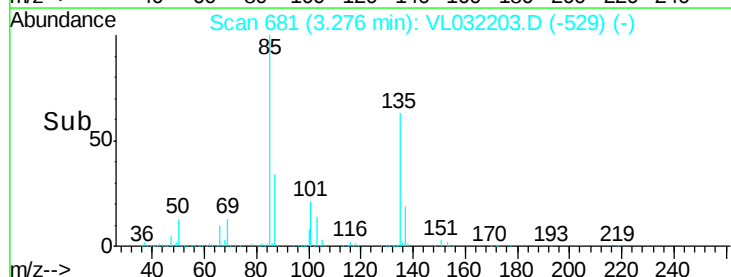
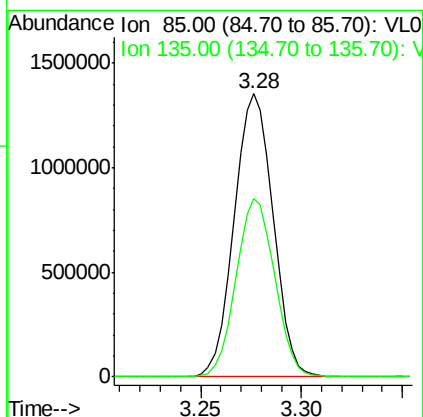
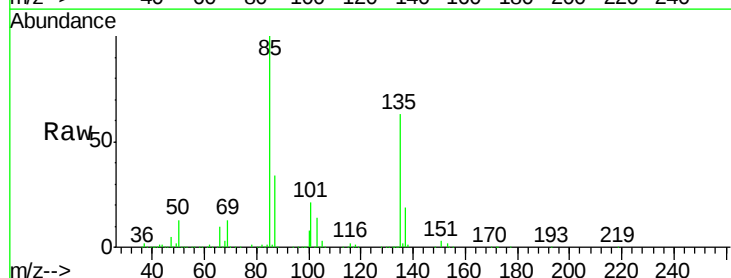
Acq: 5 Jul 2018 12:17

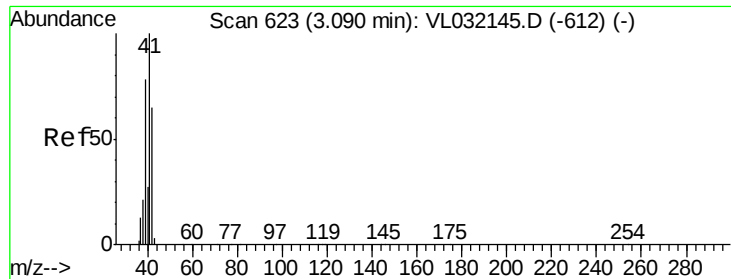
Tgt Ion: 85 Resp: 1828953

Ion Ratio Lower Upper

85 100

135 62.8 54.6 82.0





#9

Propene

Concen: 8.47 ppbv

RT: 3.09 min Scan# 623

Delta R.T. -0.01 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

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Tot Ion: 41 Resp: 723424

Ion Ratio Lower Upper

41 100

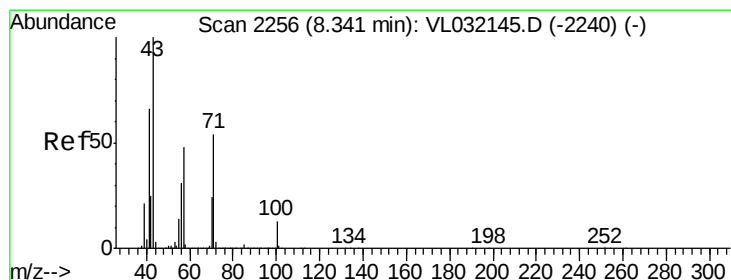
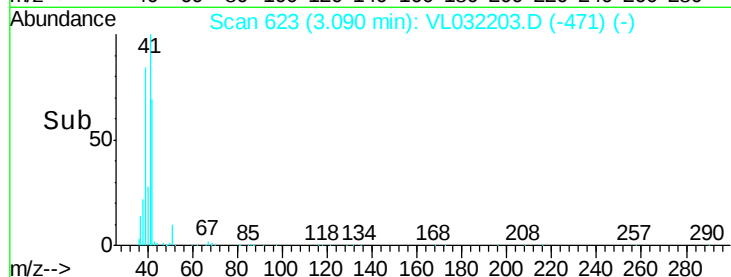
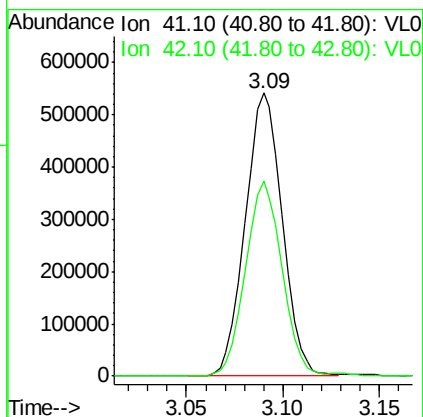
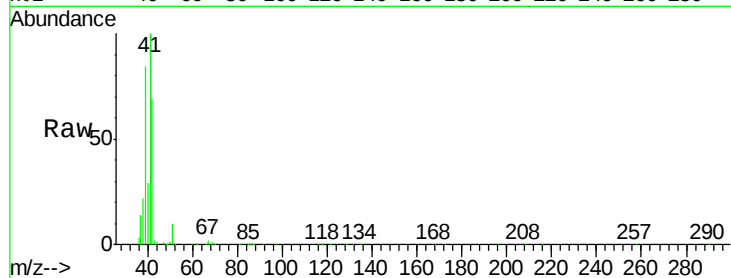
42 68.6 56.2 84.4

Manual Integrations

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#10

Heptane

Concen: 10.25 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032203.D

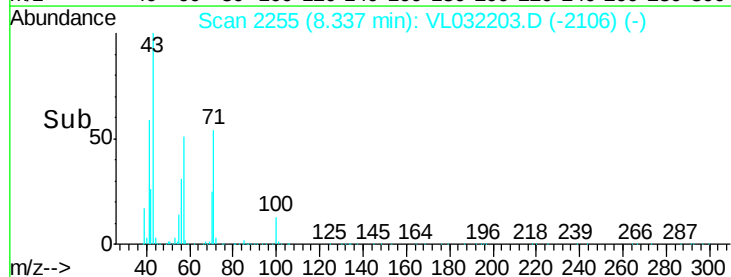
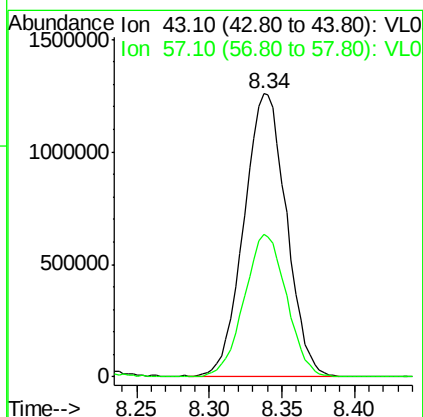
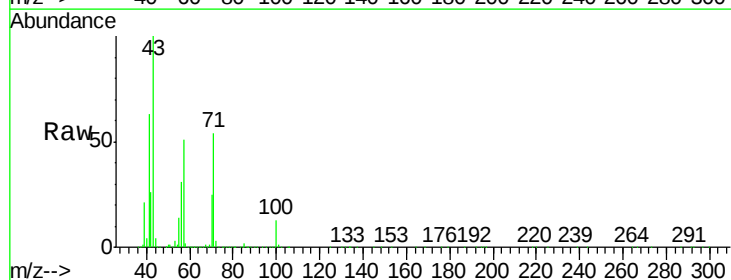
Acq: 5 Jul 2018 12:17

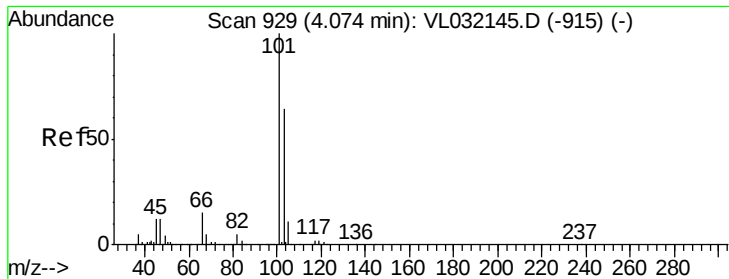
Tgt Ion: 43 Resp: 2552735

Ion Ratio Lower Upper

43 100

57 50.6 39.8 59.8





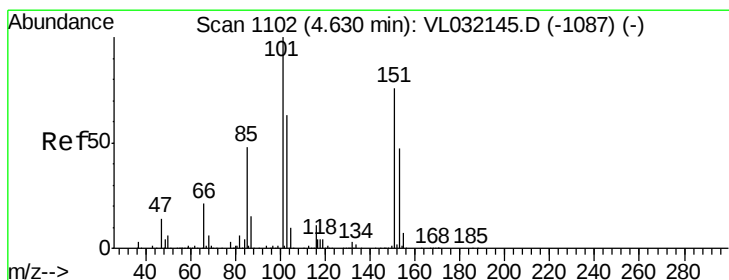
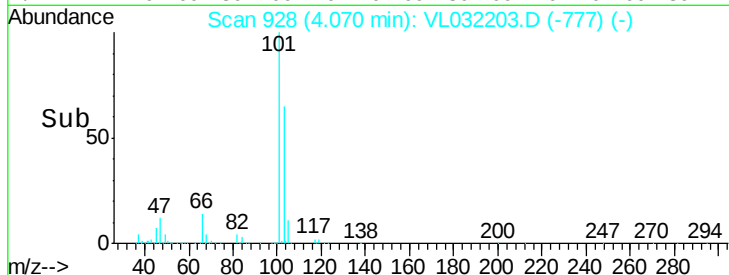
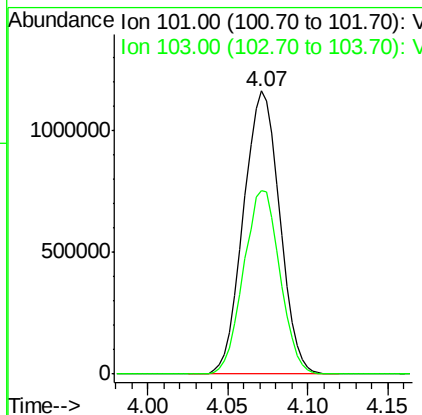
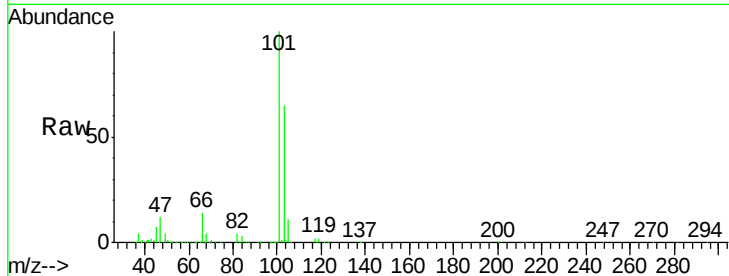
#11
 Trichlorofluoromethane
 Concen: 8.46 ppbv
 RT: 4.07 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1806733
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.4 77.0

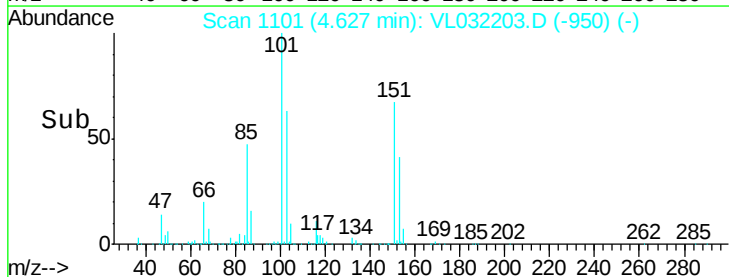
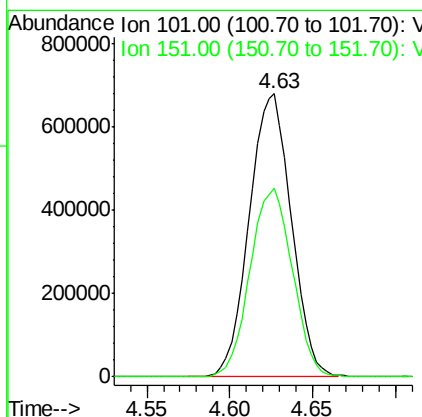
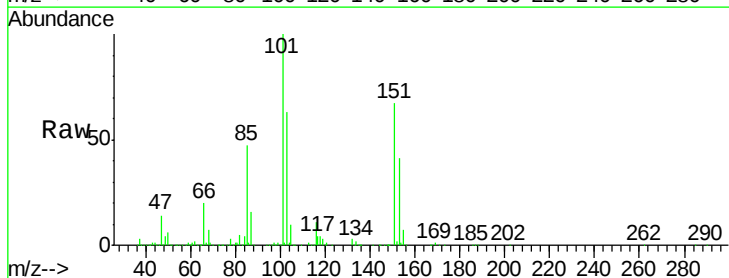
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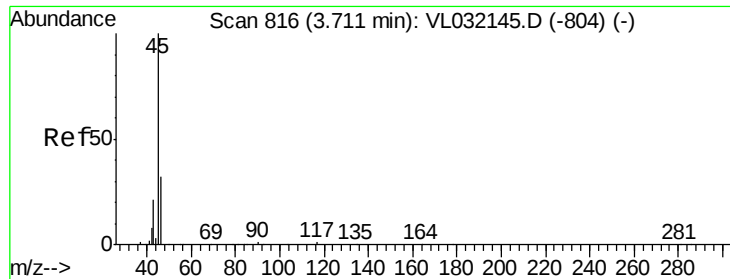
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.44 ppbv
 RT: 4.63 min Scan# 1101
 Delta R.T. -0.01 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Tgt Ion:101 Resp: 1200629
 Ion Ratio Lower Upper
 101 100
 151 67.1 58.8 88.2





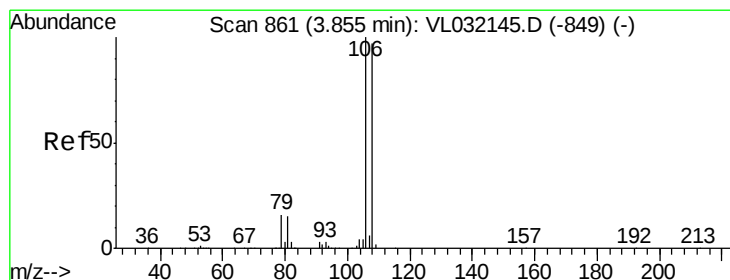
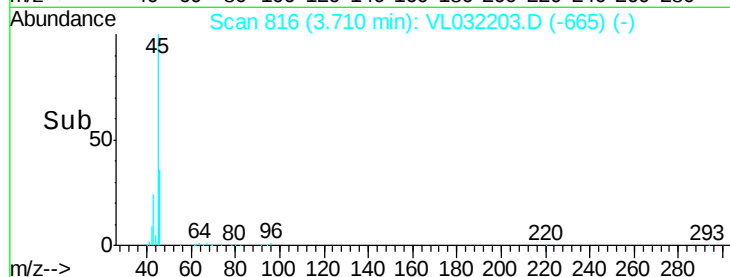
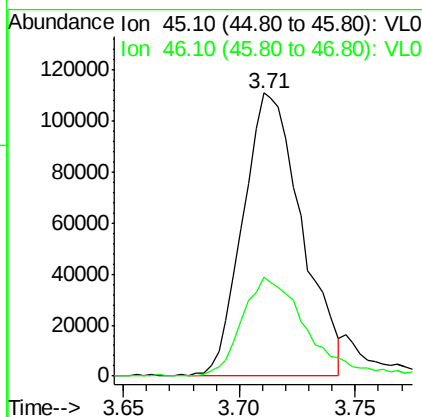
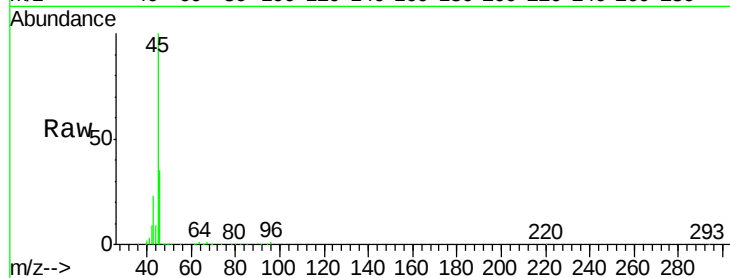
#13
Ethanol
Concen: 7.54 ppbv
RT: 3.71 min Scan# 816
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Resp	195184
Ion Ratio	100	Lower	Upper
46	39.3	14.6	58.4

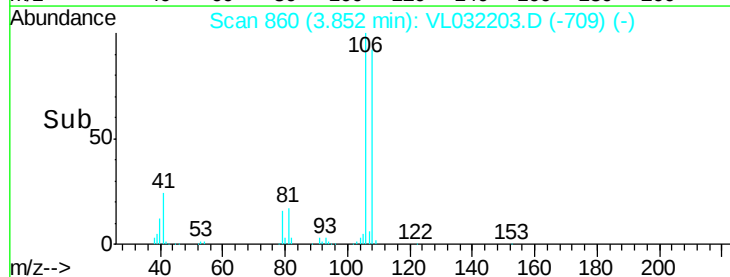
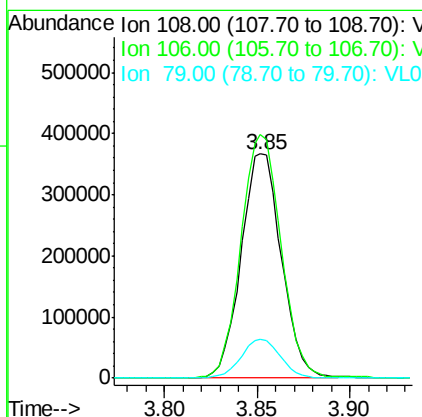
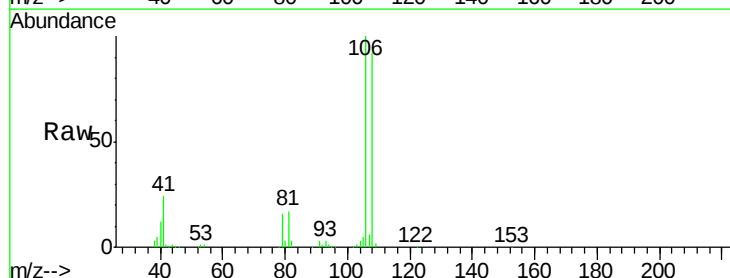
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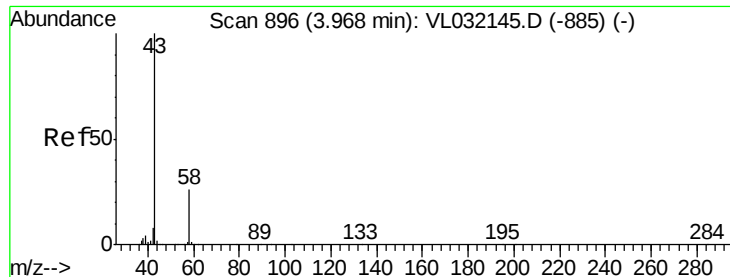
MMDadoda
7/16/2018 6:19:01 PM



#14
Bromoethene
Concen: 8.16 ppbv
RT: 3.85 min Scan# 860
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion	108	Resp	552328
Ion Ratio	100	Lower	Upper
106	109.2	86.3	129.5
79	17.2	12.7	19.1





#15

Acetone

Concen: 7.86 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1378486

Ion Ratio Lower Upper

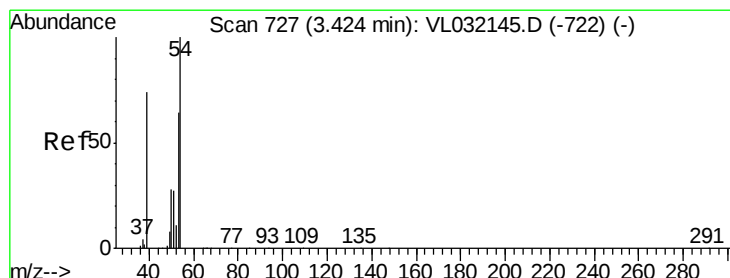
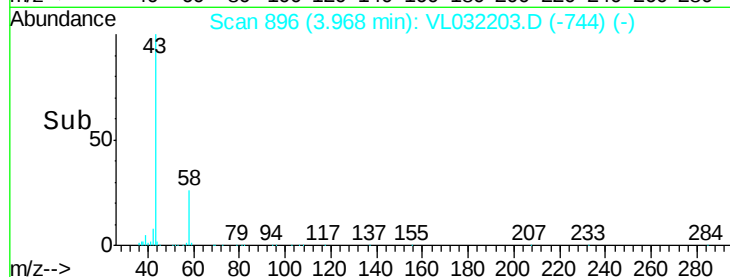
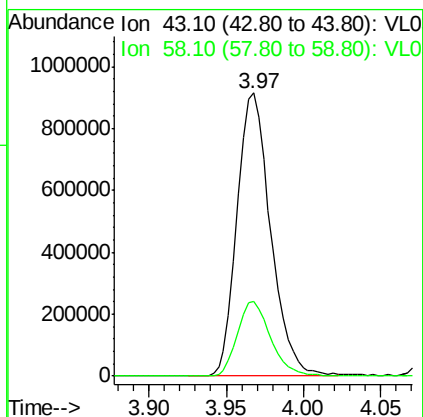
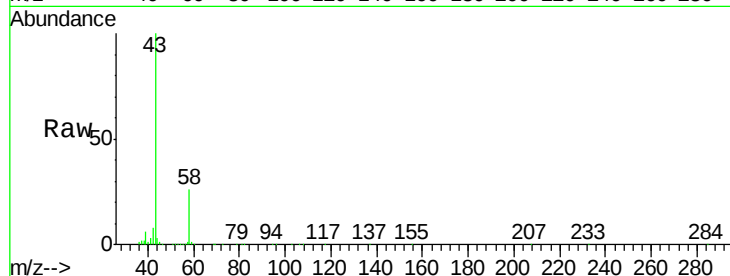
43 100

58 26.2 21.4 32.0

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#16

1,3-Butadiene

Concen: 10.52 ppbv

RT: 3.42 min Scan# 726

Delta R.T. -0.01 min

Lab File: VL032203.D

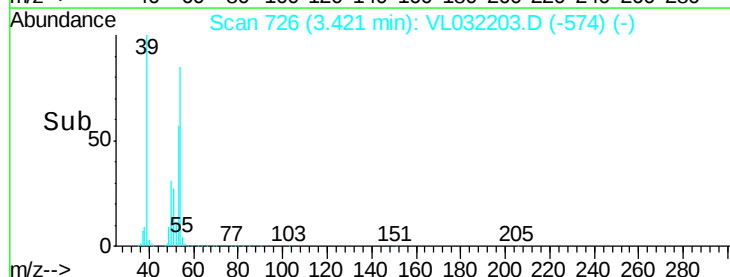
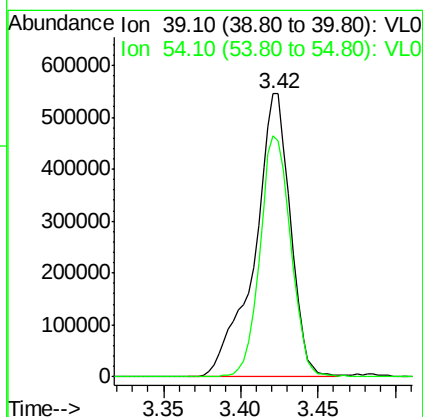
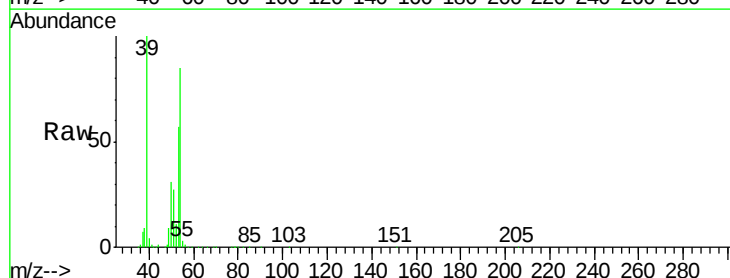
Acq: 5 Jul 2018 12:17

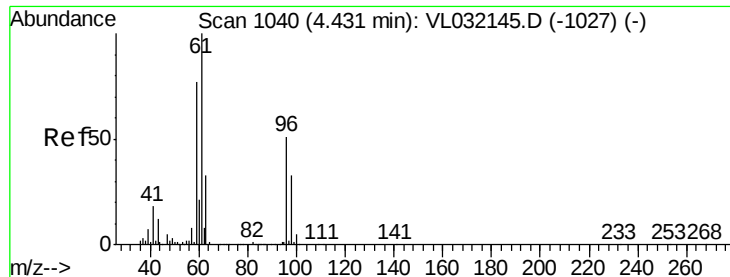
Tgt Ion: 39 Resp: 880800

Ion Ratio Lower Upper

39 100

54 73.6 75.8 113.6#





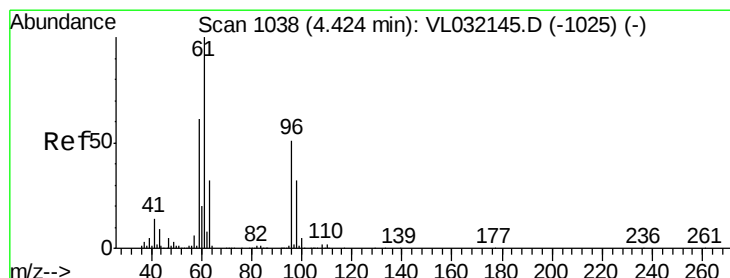
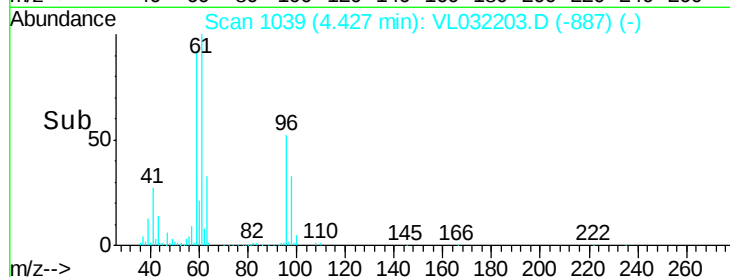
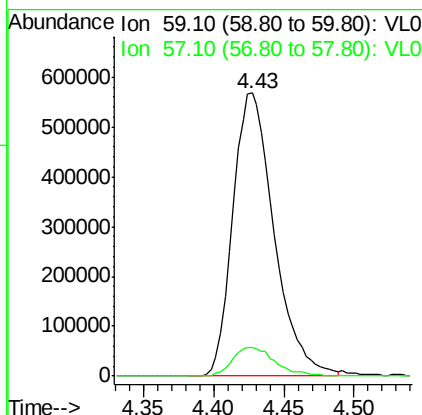
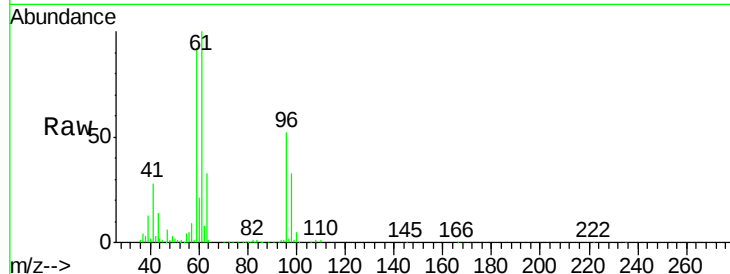
#17
tert-Butyl alcohol
Concen: 10.43 ppbv
RT: 4.43 min Scan# 1039
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1164470
Ion Ratio Lower Upper
59 100
57 10.7 8.2 12.2

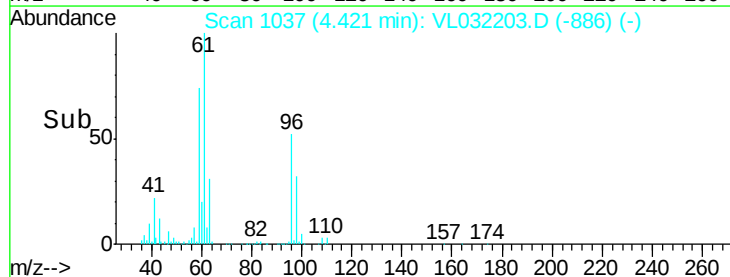
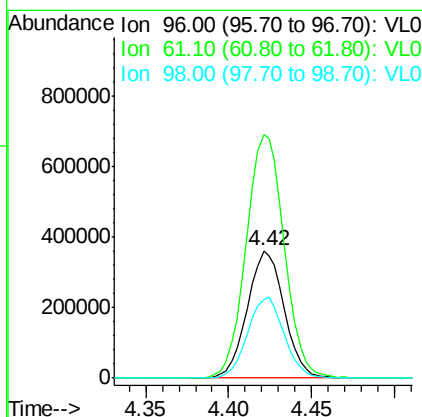
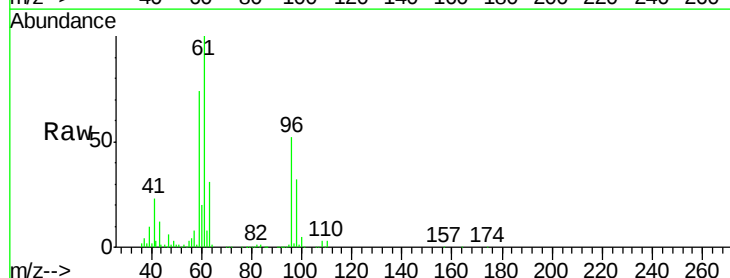
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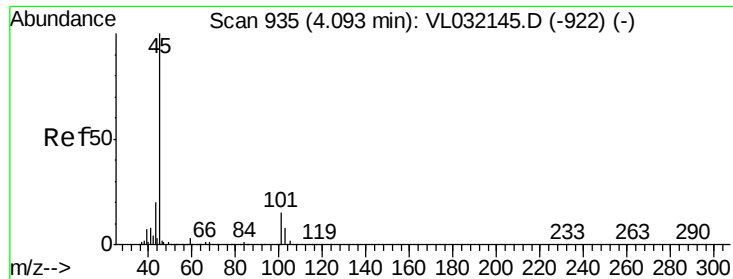
MMDadoda
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#18
1,1-Dichloroethene
Concen: 8.17 ppbv
RT: 4.42 min Scan# 1037
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion: 96 Resp: 556313
Ion Ratio Lower Upper
96 100
61 191.4 154.1 231.1
98 61.5 50.3 75.5





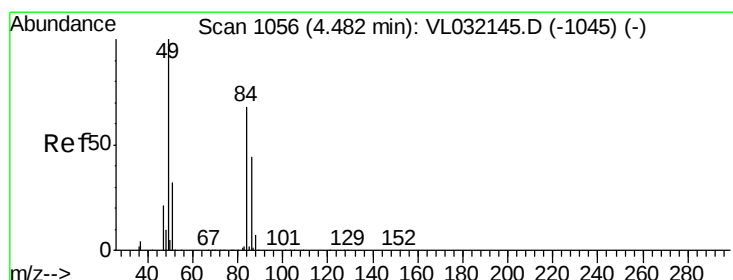
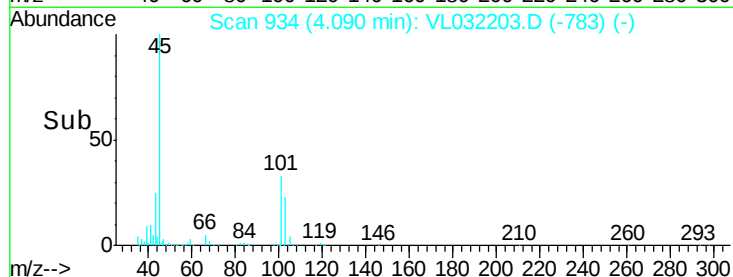
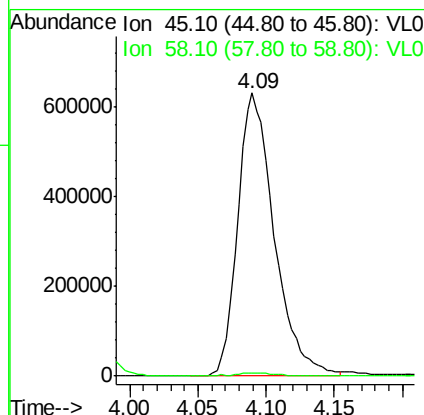
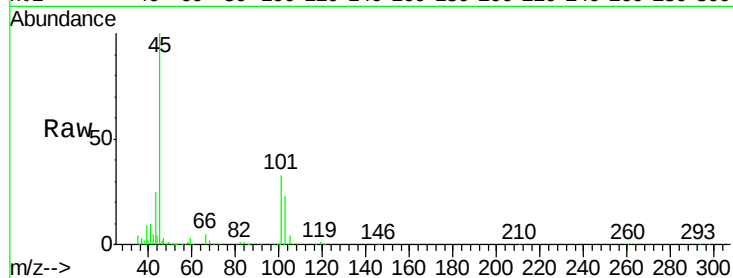
#19
Isopropyl Alcohol
Concen: 8.01 ppbv
RT: 4.09 min Scan# 934
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 1166576
Ion Ratio Lower Upper
45 100
58 1.5 29.4 44.0#

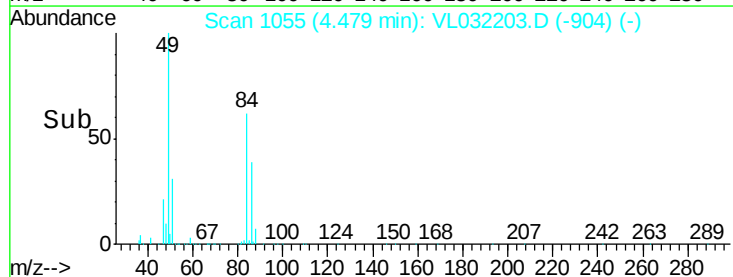
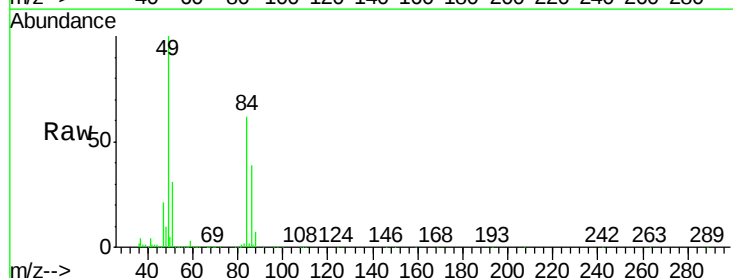
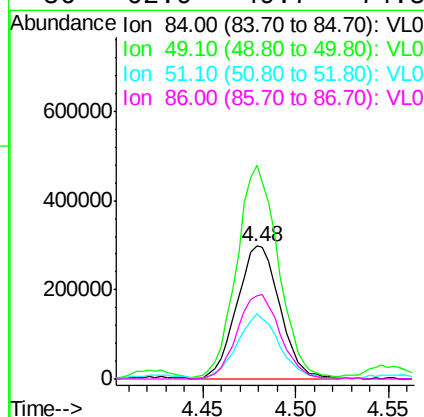
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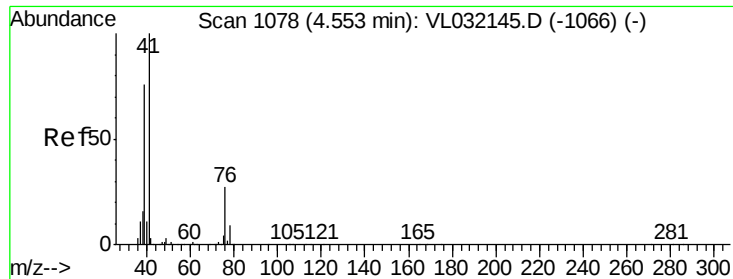
MMDadoda
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#20
Methylene Chloride
Concen: 7.46 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion: 84 Resp: 477973
Ion Ratio Lower Upper
84 100
49 160.2 119.6 179.4
51 48.7 36.3 54.5
86 62.9 49.7 74.5





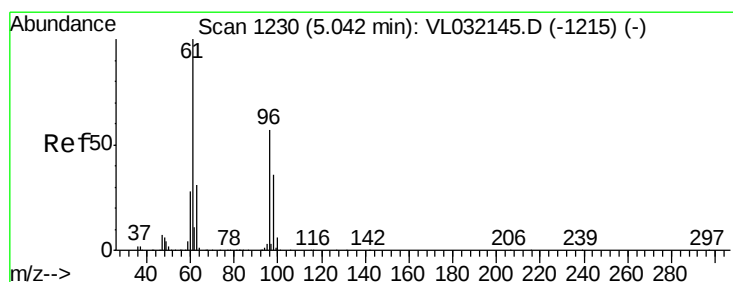
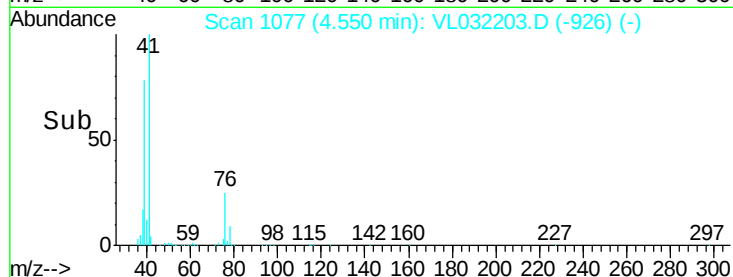
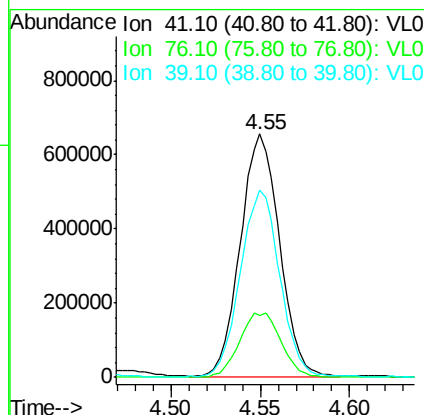
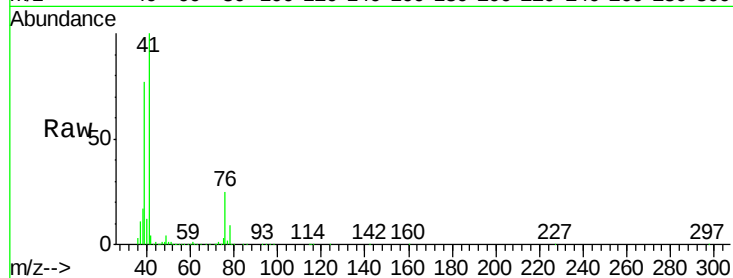
#21
Allvl Chloride
Concen: 8.36 ppbv
RT: 4.55 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 41 Resp: 1000583
Ion Ratio Lower Upper
41 100
76 28.2 22.5 33.7
39 77.7 60.5 90.7

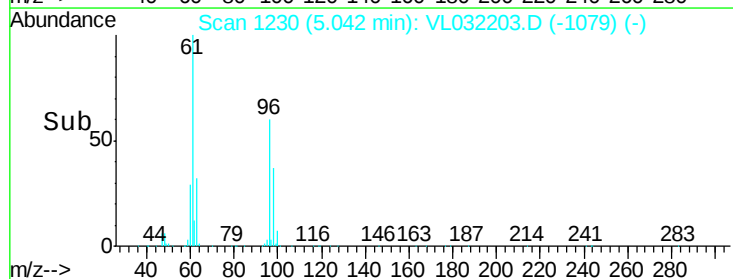
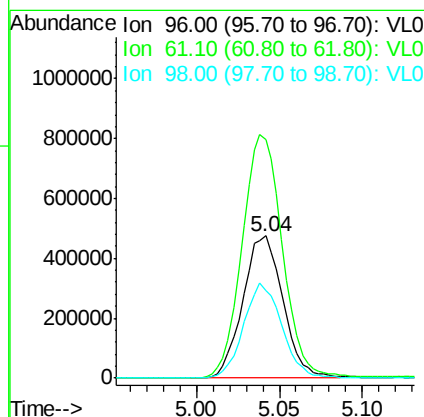
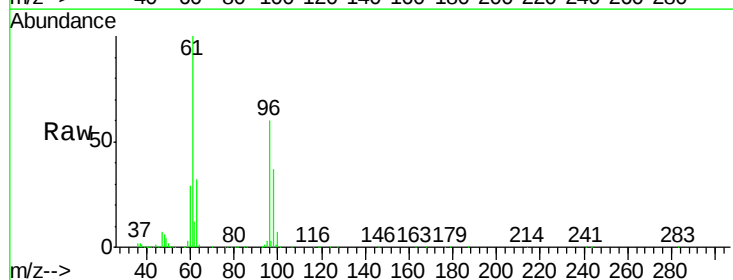
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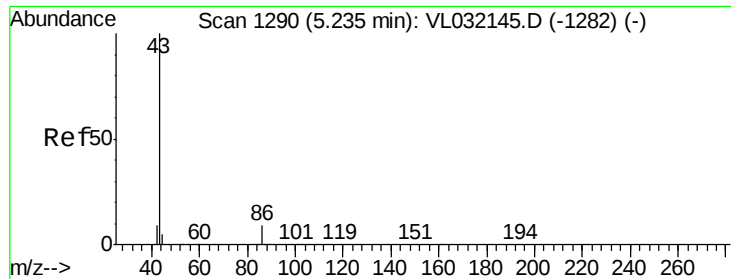
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#22
trans-1,2-Dichloroethene
Concen: 11.27 ppbv
RT: 5.04 min Scan# 1230
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion: 96 Resp: 802007
Ion Ratio Lower Upper
96 100
61 167.9 135.2 202.8
98 61.7 49.7 74.5





#23

Vinyl Acetate

Concen: 9.59 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 3049321

Ion Ratio Lower Upper

43 100

86 7.0 6.2 9.4

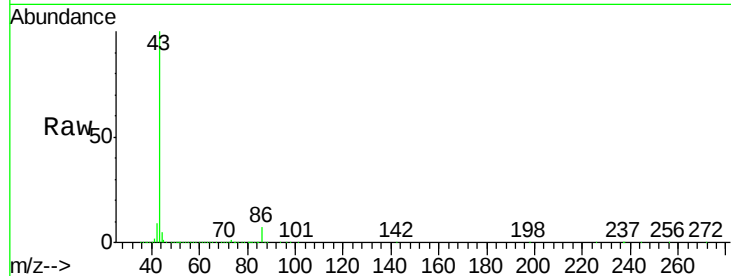
42 9.2 6.9 10.3

44 4.9 3.8 5.8

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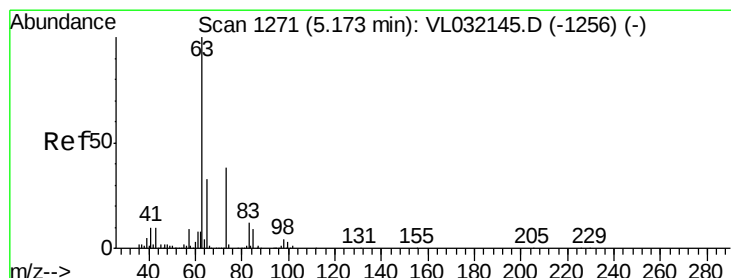
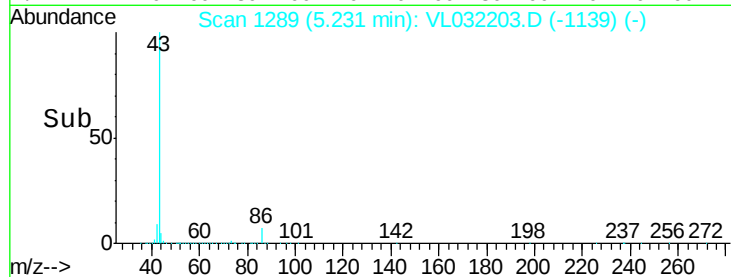
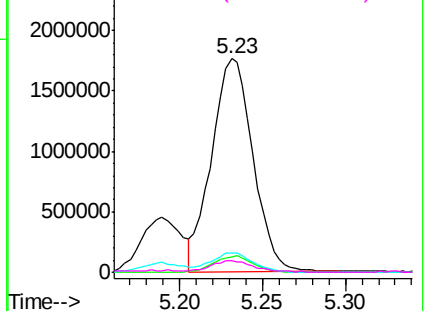


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 11.56 ppbv

RT: 5.17 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

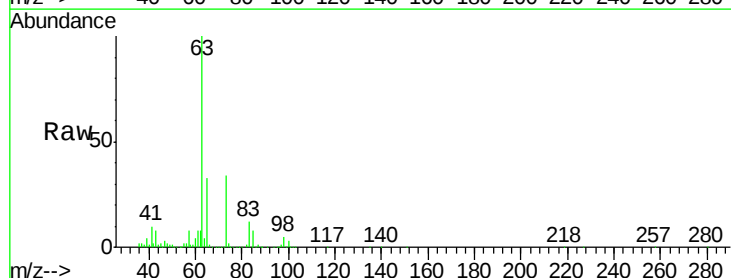
Tgt Ion: 63 Resp: 2354169

Ion Ratio Lower Upper

63 100

98 4.5 2.4 7.2

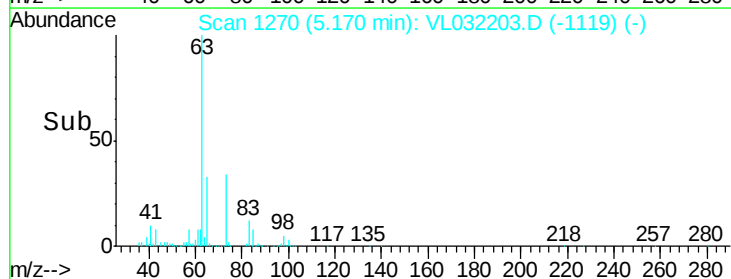
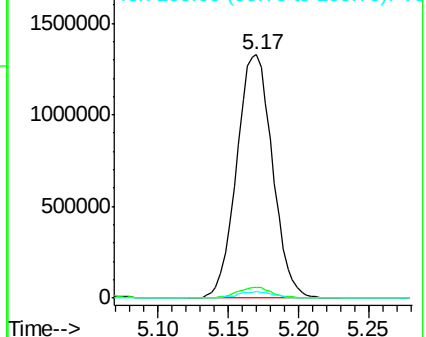
100 2.6 1.7 5.0

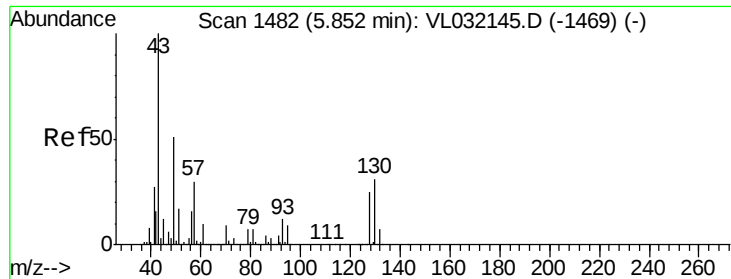


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 9.20 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

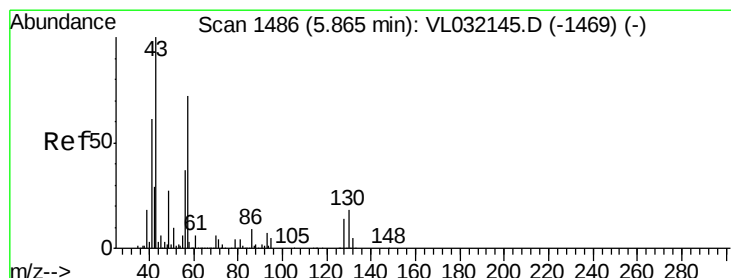
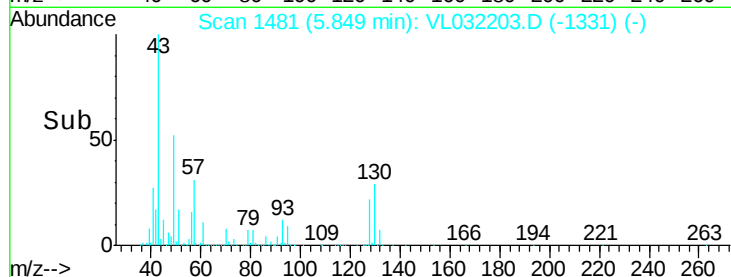
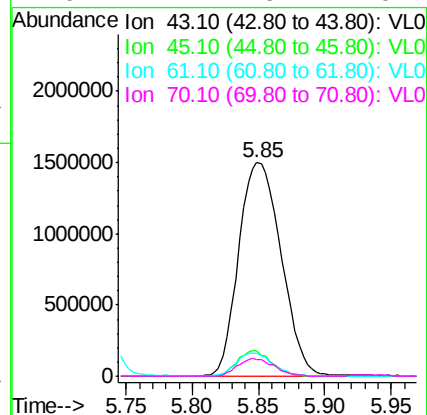
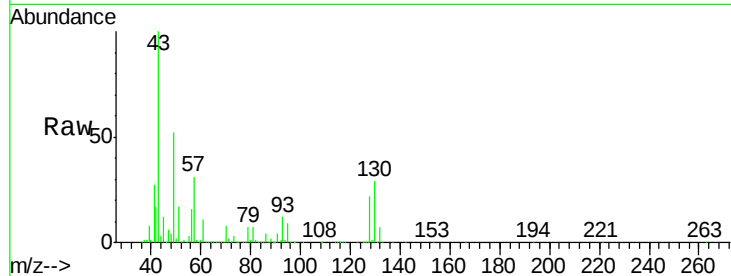
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 3338906

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	9.4	7.4	11.0
70	7.4	6.1	9.1

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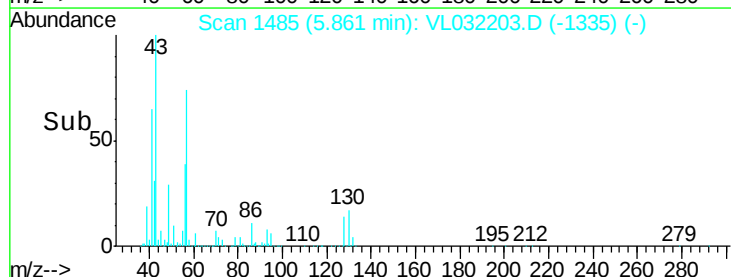
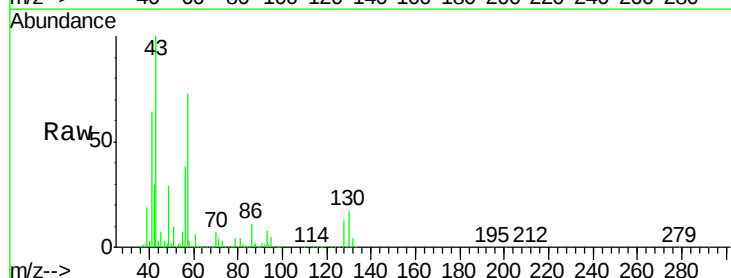
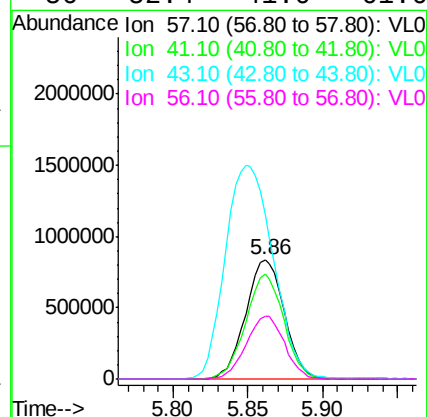
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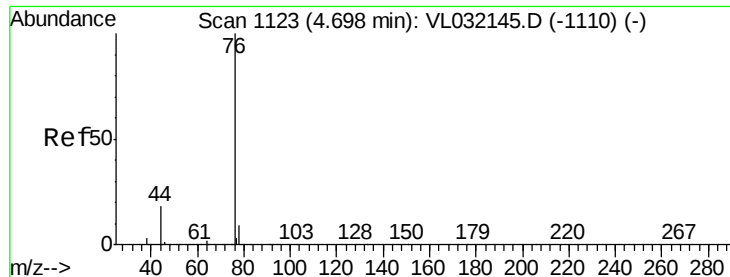


#26
Hexane
Concen: 9.03 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion: 57 Resp: 1508896

Ion	Ratio	Lower	Upper
57	100		
41	86.8	68.6	103.0
43	222.7	168.6	252.8
56	52.4	41.0	61.6





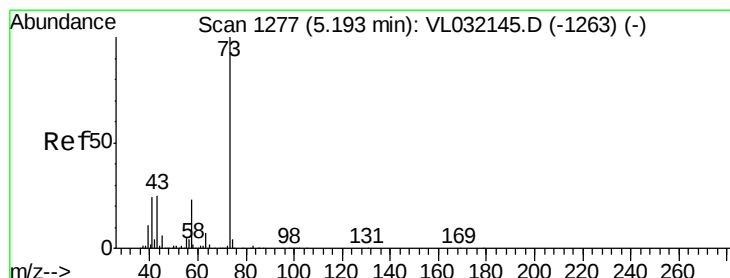
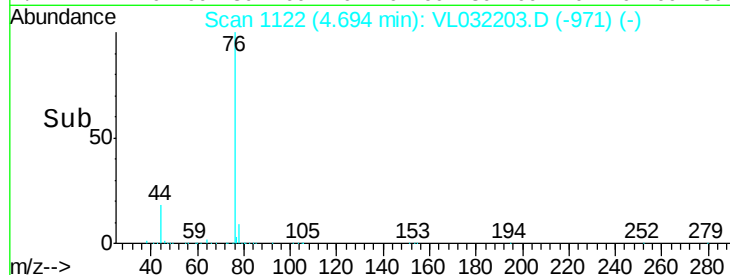
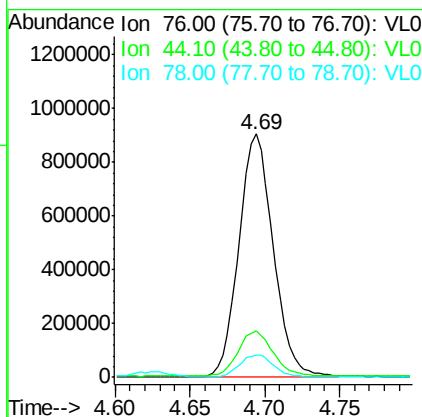
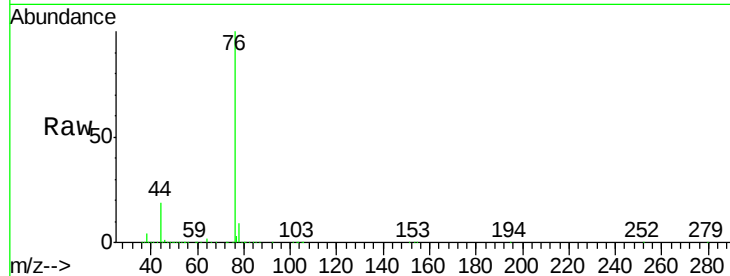
#27
Carbon Disulfide
Concen: 8.76 ppbv
RT: 4.69 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.5	15.1	22.7
78	9.2	7.2	10.8

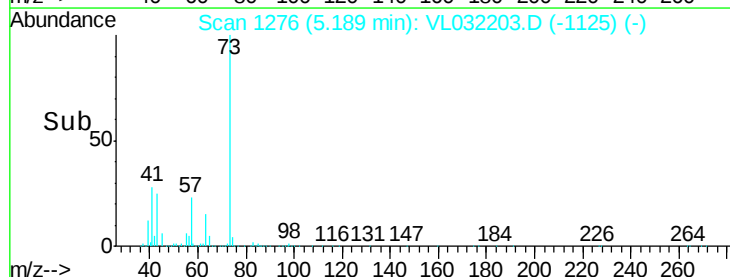
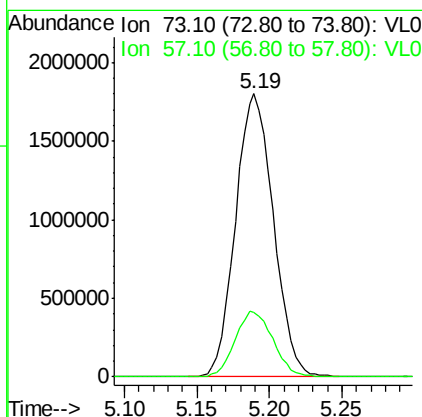
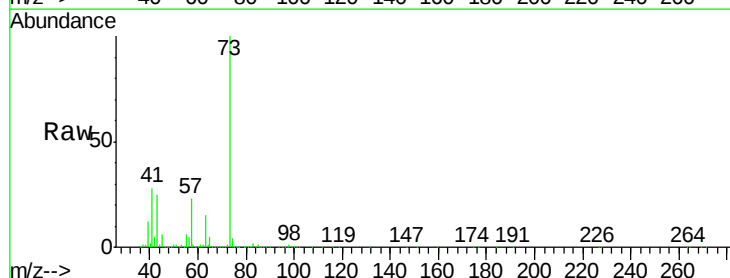
Manual Integrations
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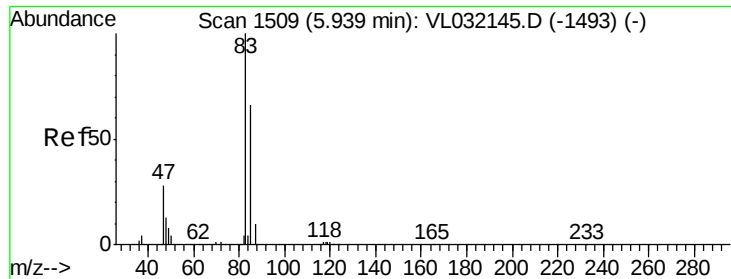
MMDadoda
7/16/2018 6:19:01 PM



#28
Methyl tert-Butyl Ether
Concen: 11.09 ppbv
RT: 5.19 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.6	27.8





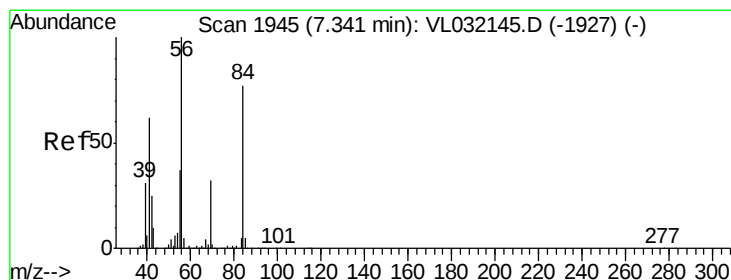
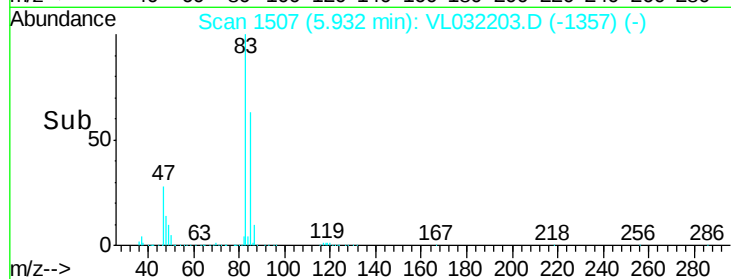
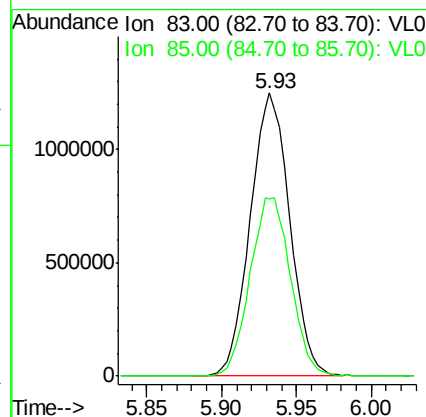
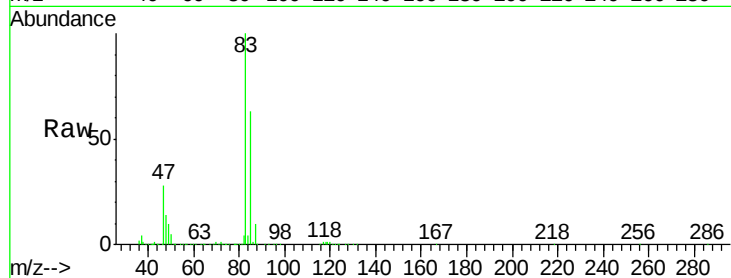
#29
Chloroform
Concen: 9.45 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2297970
Ion Ratio Lower Upper
83 100
85 62.7 51.6 77.4

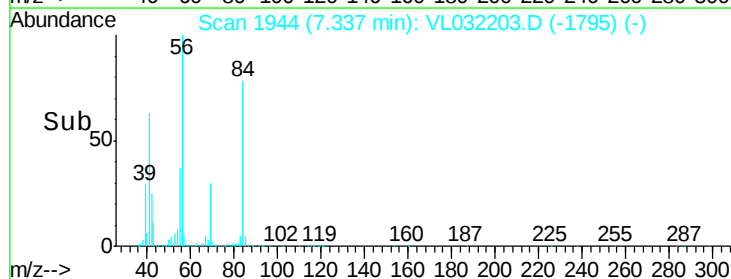
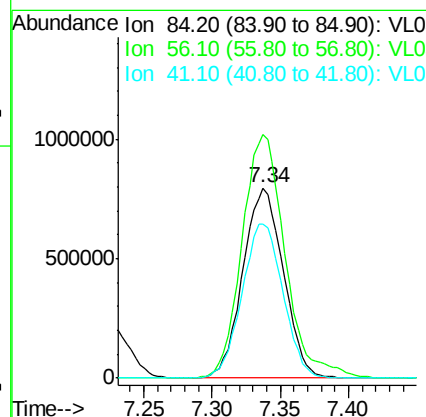
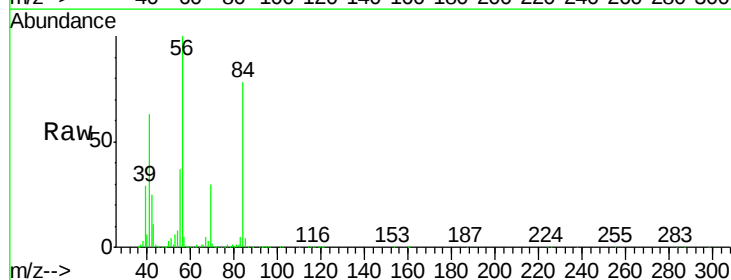
Manual Integrations
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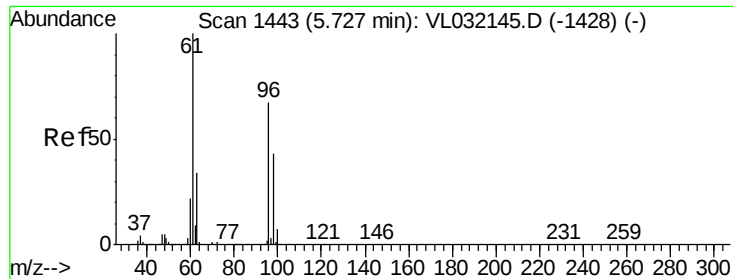
MMDadoda
7/16/2018 6:19:01 PM



#30
Cyclohexane
Concen: 10.39 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion: 84 Resp: 1636053
Ion Ratio Lower Upper
84 100
56 136.7 109.1 163.7
41 82.6 64.6 96.8





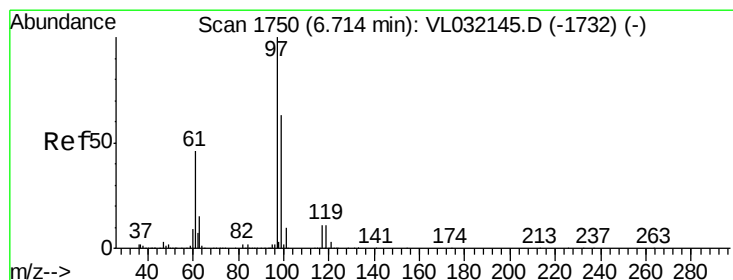
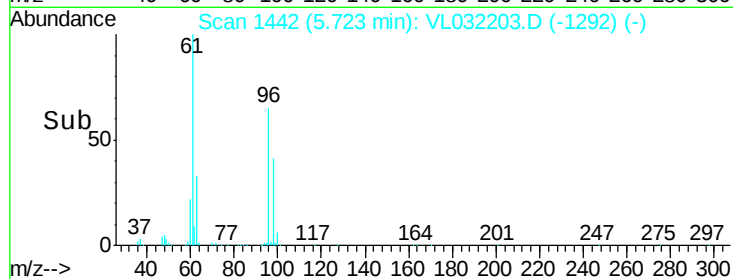
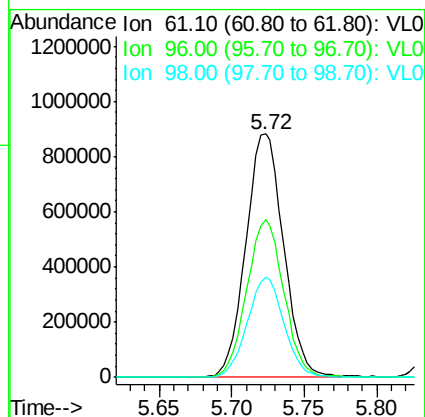
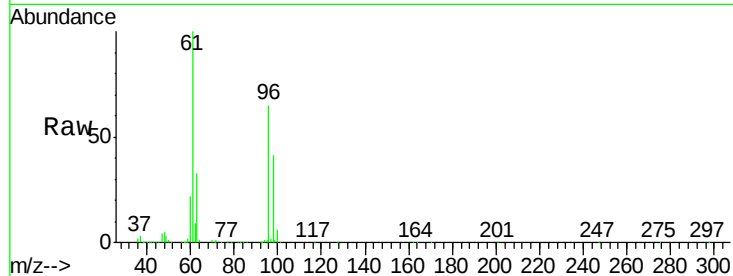
#31
 cis-1,2-Dichloroethene
 Concen: 9.57 ppbv
 RT: 5.72 min Scan# 1442
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.7	54.2	81.4
98	41.1	34.6	52.0

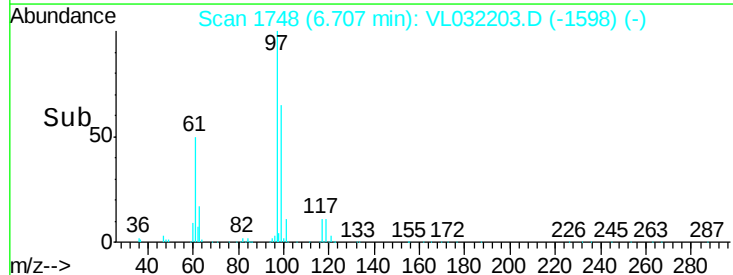
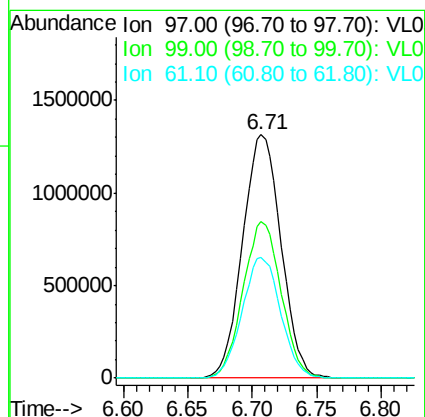
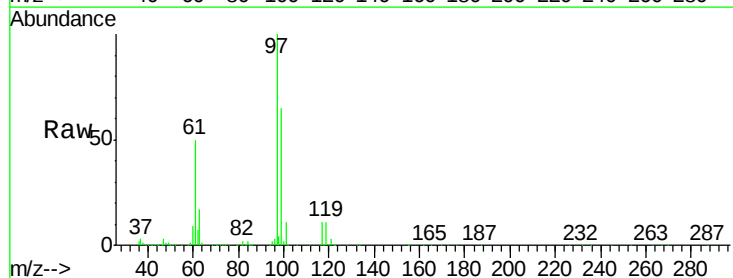
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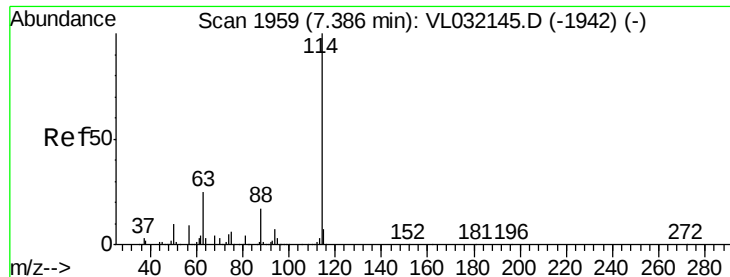
MMDadoda
 7/16/2018 6:19:01 PM



#32
 1,1,1-Trichloroethane
 Concen: 10.71 ppbv
 RT: 6.71 min Scan# 1748
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.3	76.9
61	50.0	38.4	57.6





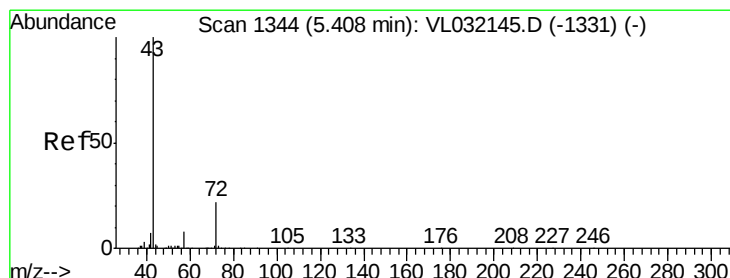
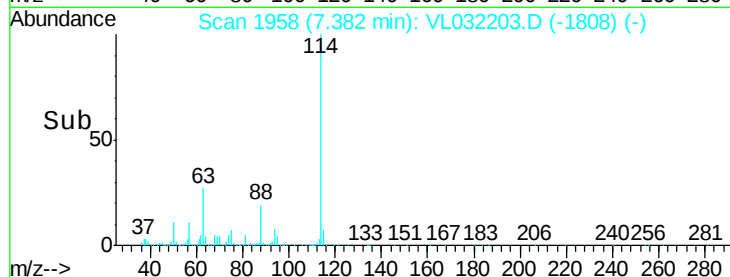
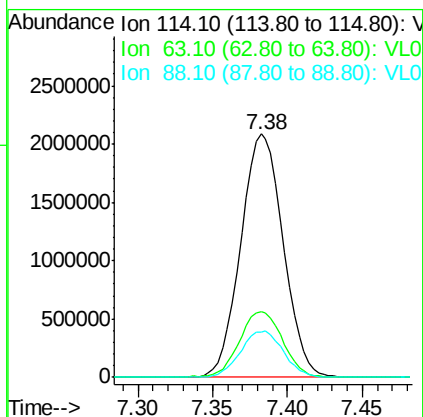
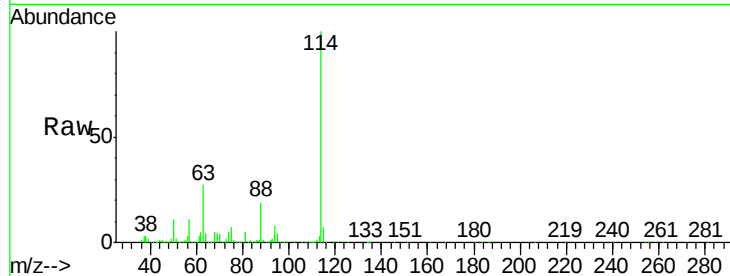
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.8	19.1	28.7
88	19.3	13.9	20.9

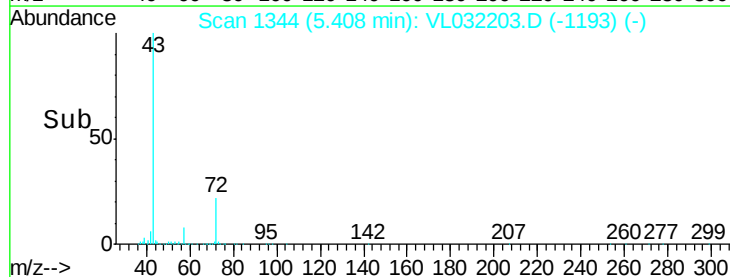
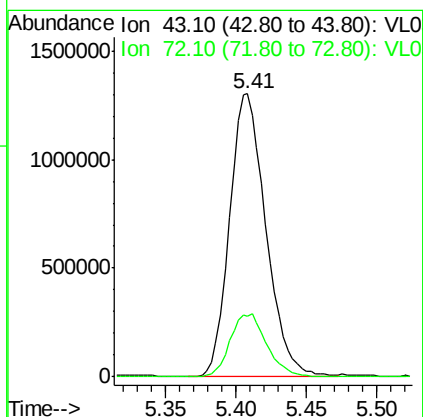
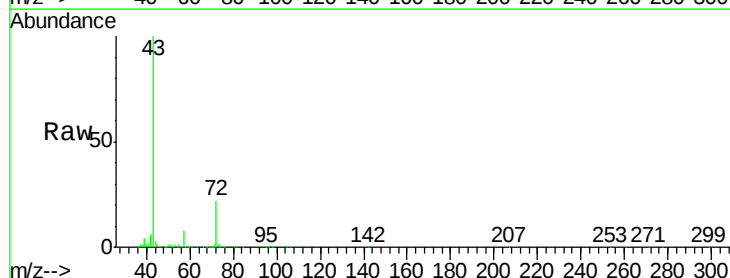
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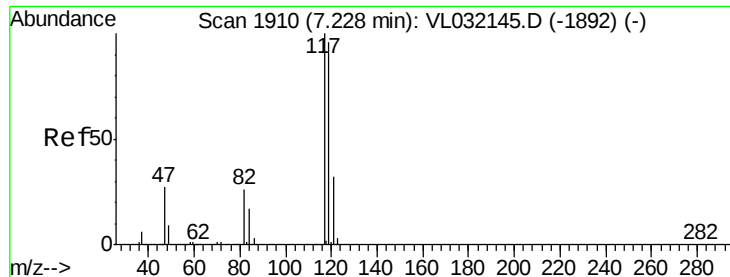
MMDadoda
 7/16/2018 6:19:01 PM



#34
 2-Butanone
 Concen: 8.95 ppbv
 RT: 5.41 min Scan# 1344
 Delta R.T. -0.01 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.4	27.6





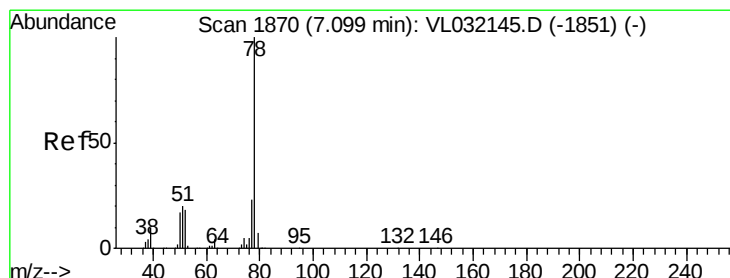
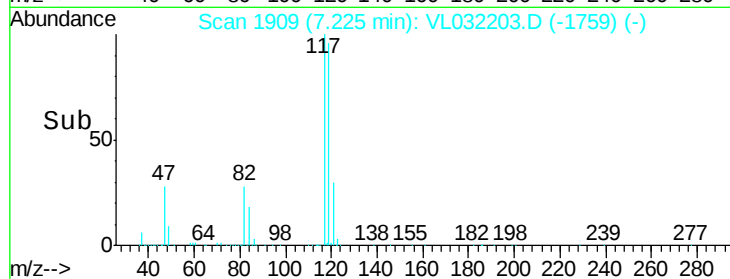
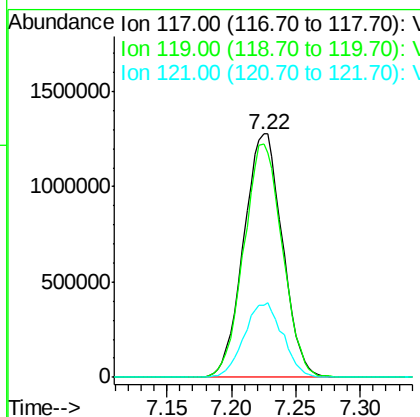
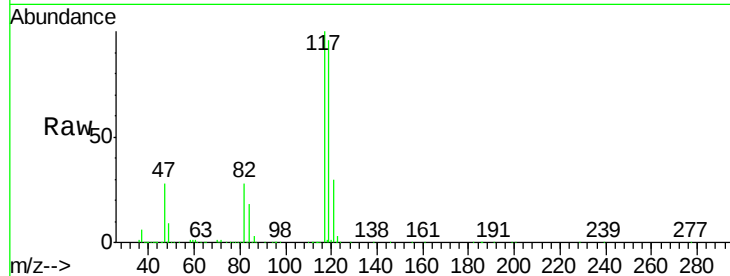
#35
Carbon Tetrachloride
Concen: 9.50 ppbv
RT: 7.22 min Scan# 1909
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.8	112.2
121	29.8	24.0	36.0

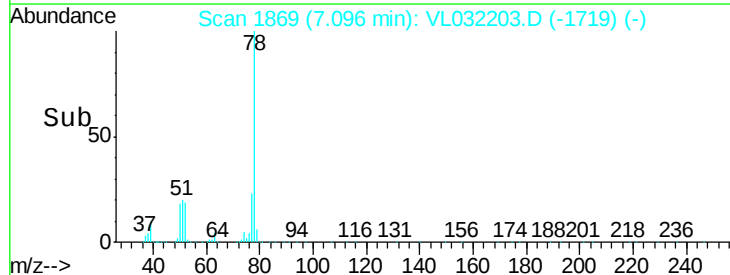
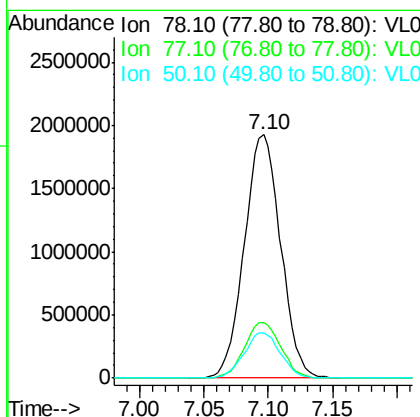
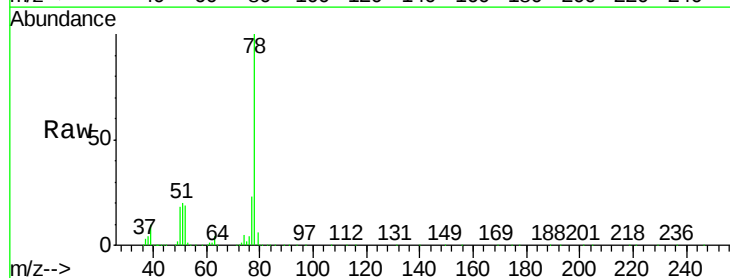
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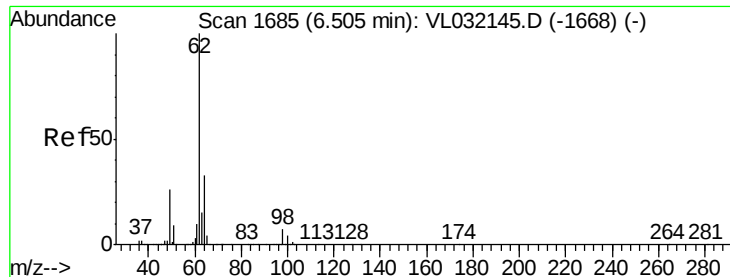
MMDadoda
7/16/2018 6:19:01 PM



#36
Benzene
Concen: 9.50 ppbv
RT: 7.10 min Scan# 1869
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	17.7	26.5
50	18.5	14.0	21.0





#37

1,2-Dichloroethane

Concen: 10.72 ppbv

RT: 6.50 min Scan# 1683

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 2125253

Ion Ratio Lower Upper

62 100

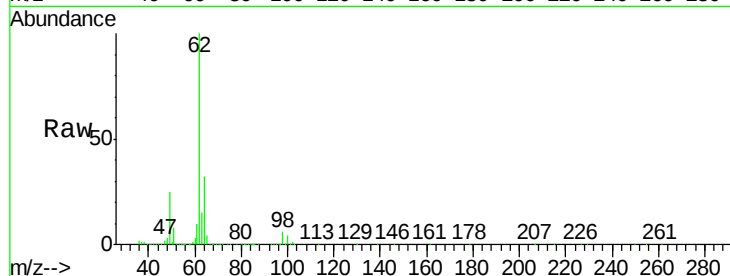
98 6.3 5.8 8.6

Manual Integrations

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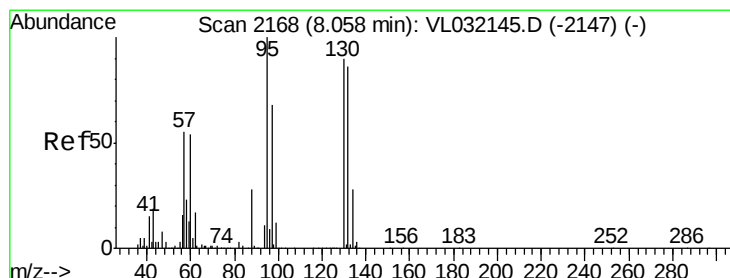
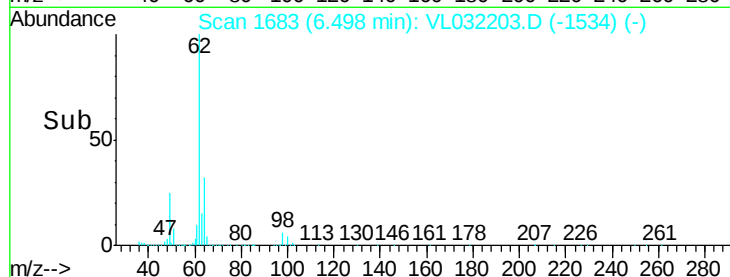
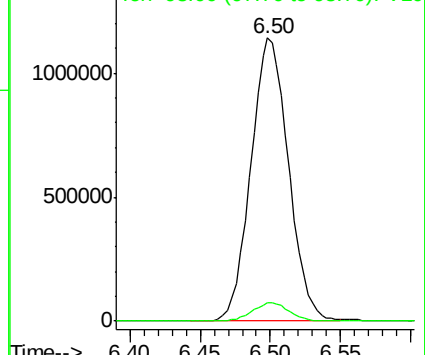
MMDadoda

7/16/2018 6:19:01 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 8.02 ppbv

RT: 8.05 min Scan# 2166

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Tgt Ion:130 Resp: 1246219

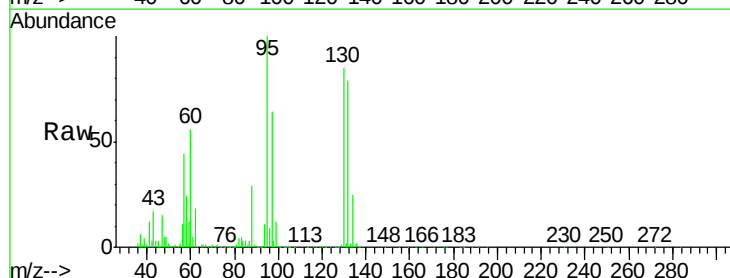
Ion Ratio Lower Upper

130 100

95 118.4 88.1 132.1

132 93.7 74.6 112.0

97 75.4 58.6 88.0

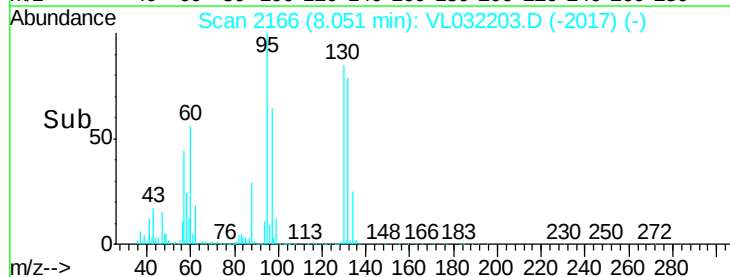
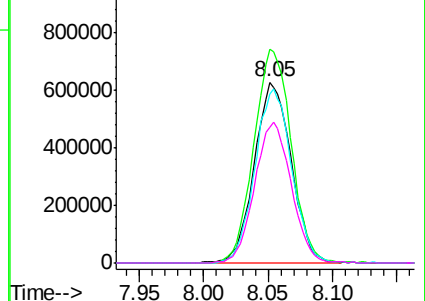


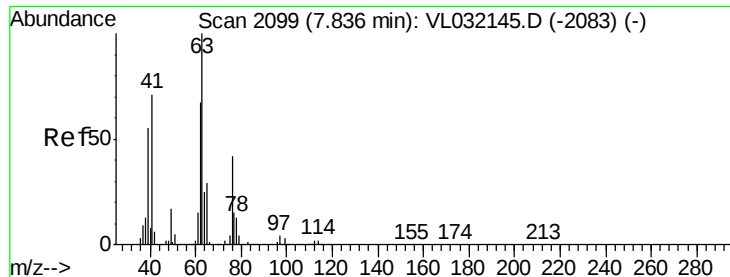
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 9.79 ppbv

RT: 7.83 min Scan# 2097

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1536458

Ion Ratio Lower Upper

63 100

41 65.5 53.3 79.9

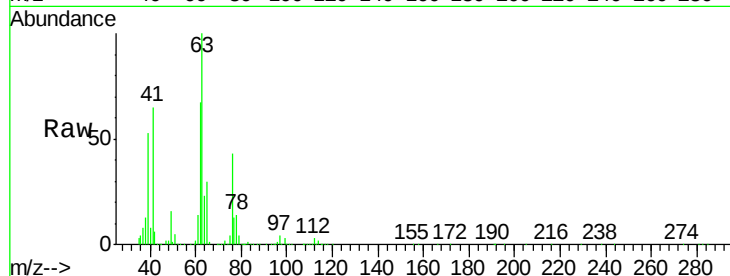
62 67.0 54.8 82.2

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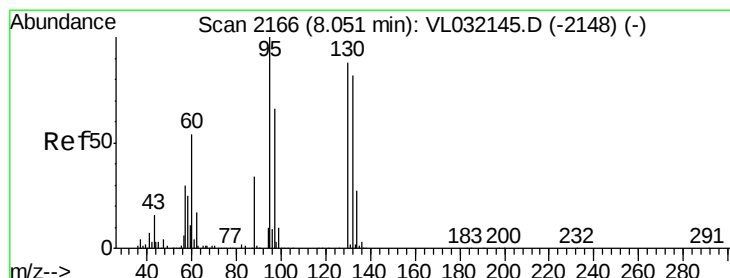
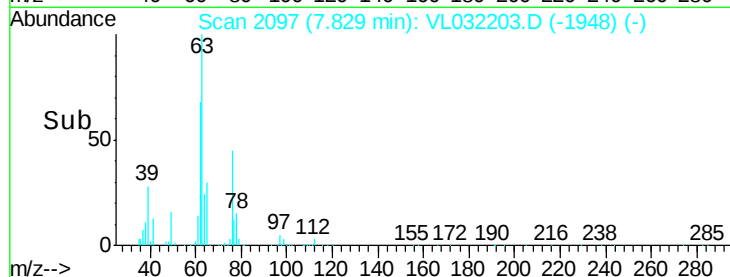
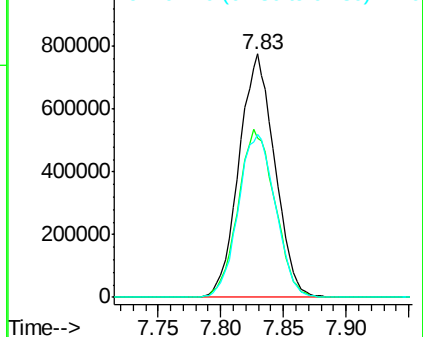
7/16/2018 6:19:01 PM



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 8.82 ppbv m

RT: 8.04 min Scan# 2163

Delta R.T. -0.03 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Tgt Ion: 88 Resp: 542569

Ion Ratio Lower Upper

88 100

58 131.3 47.4 71.0#

43 0.0 0.0 0.0

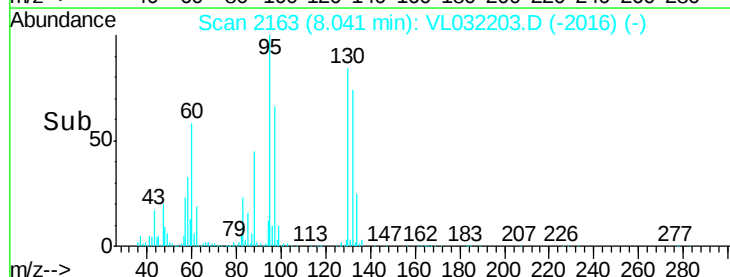
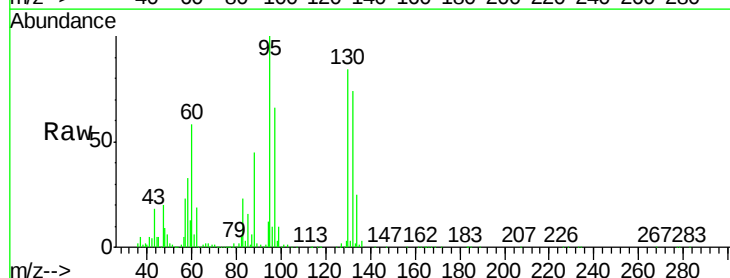
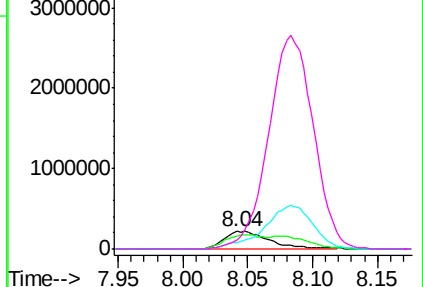
57 0.0 0.0 0.0

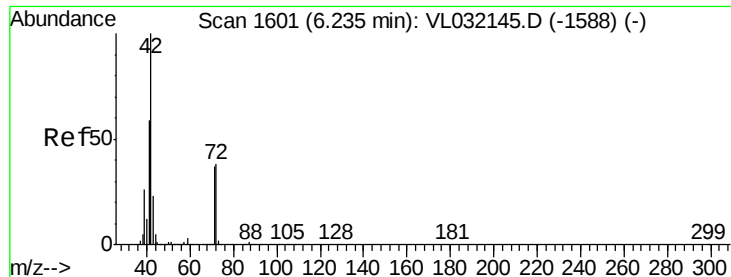
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





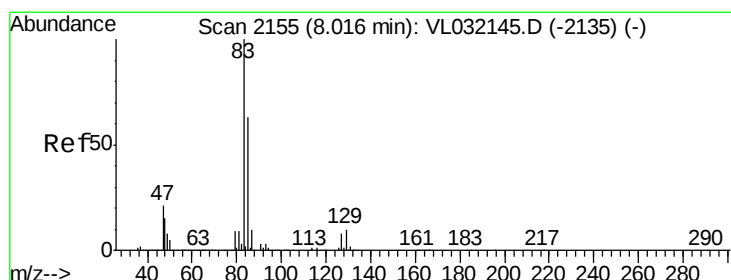
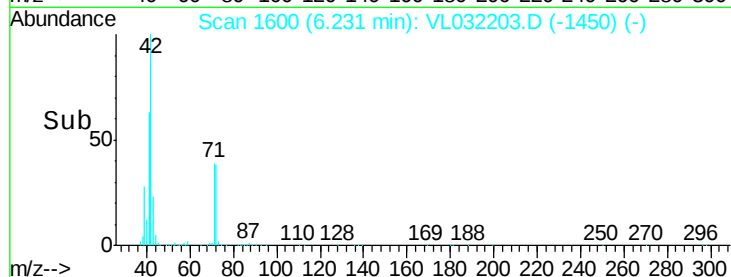
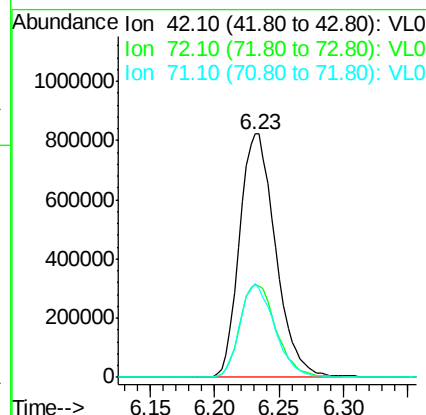
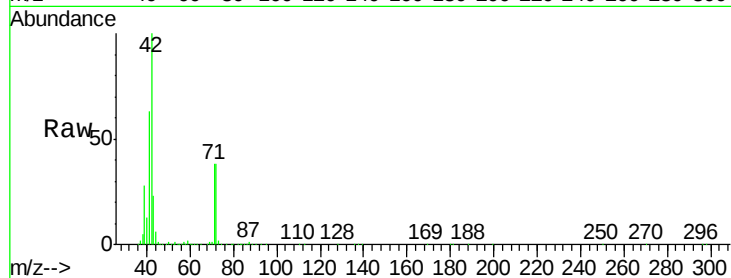
#41
Tetrahydrofuran
Concen: 10.22 ppbv
RT: 6.23 min Scan# 1600
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.5	31.1	46.7
71	37.2	29.5	44.3

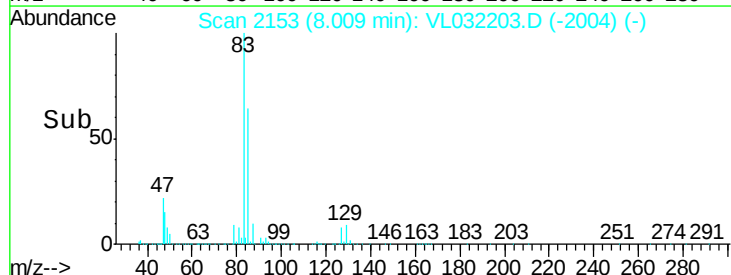
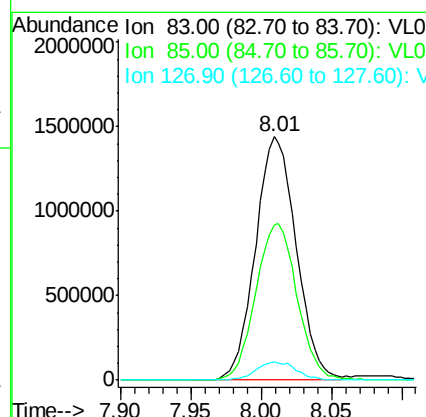
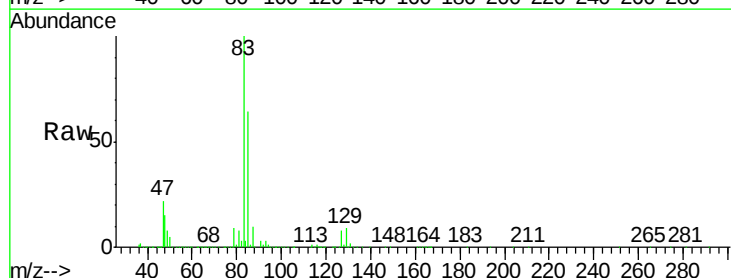
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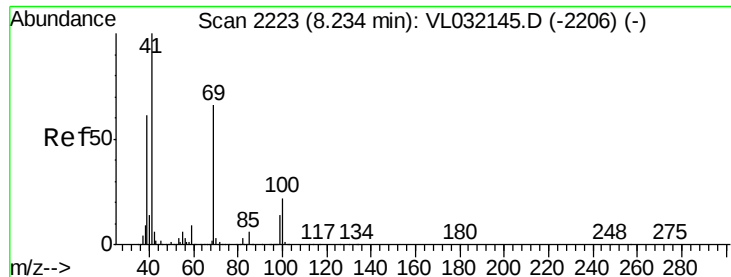
MMDadoda
7/16/2018 6:19:01 PM



#42
Bromodichloromethane
Concen: 9.38 ppbv
RT: 8.01 min Scan# 2153
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.6	79.0
127	7.7	6.5	9.7





#43

Methyl Methacrylate

Concen: 9.70 ppbv

RT: 8.23 min Scan# 2221

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

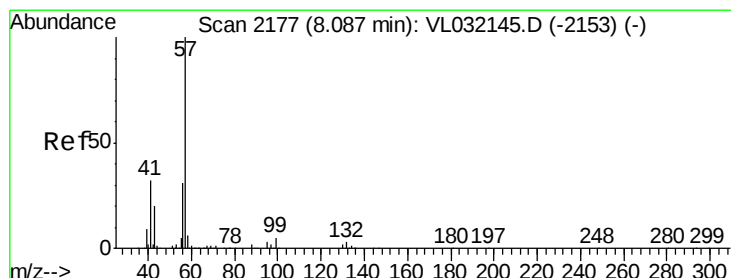
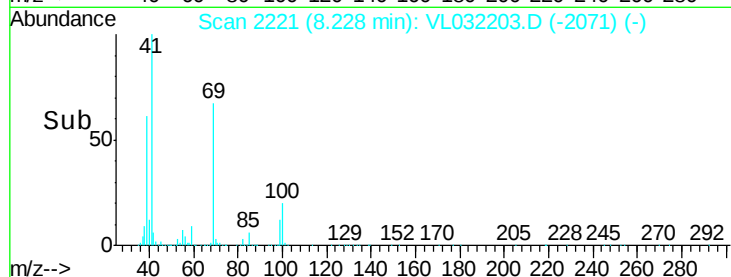
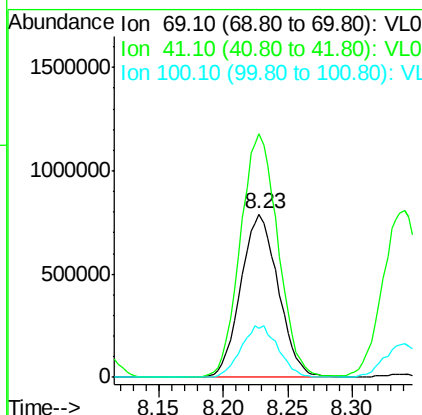
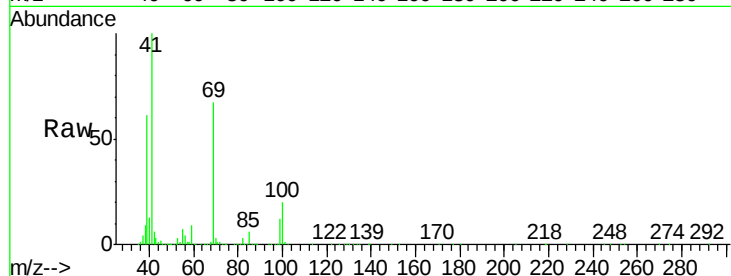
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1598758

Ion	Ratio	Lower	Upper
69	100		
41	149.8	118.2	177.4
100	31.5	27.4	41.2

Manual Integrations
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MMDadoda
7/16/2018 6:19:01 PM



#44

2,2,4-Trimethylpentane

Concen: 9.12 ppbv

RT: 8.08 min Scan# 2176

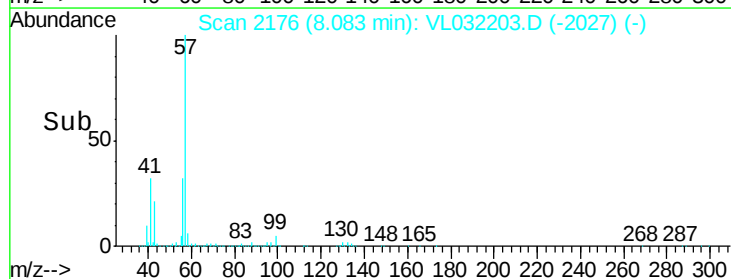
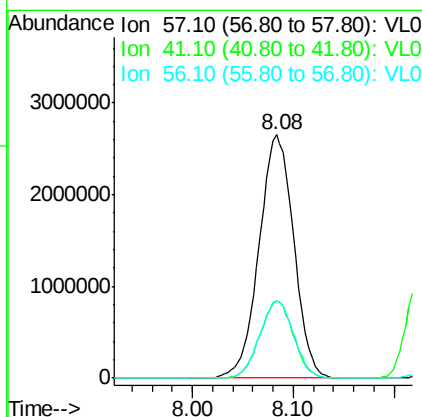
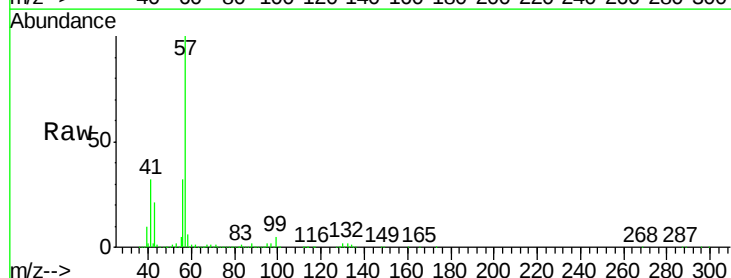
Delta R.T. -0.02 min

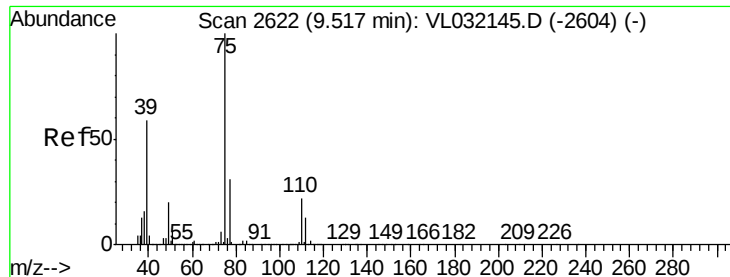
Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Tgt Ion: 57 Resp: 6345165

Ion	Ratio	Lower	Upper
57	100		
41	30.7	24.3	36.5
56	31.2	25.1	37.7





#45

t-1,3-Dichloropropene

Concen: 10.22 ppbv

RT: 9.51 min Scan# 2619

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 2088899

Ion Ratio Lower Upper

75 100

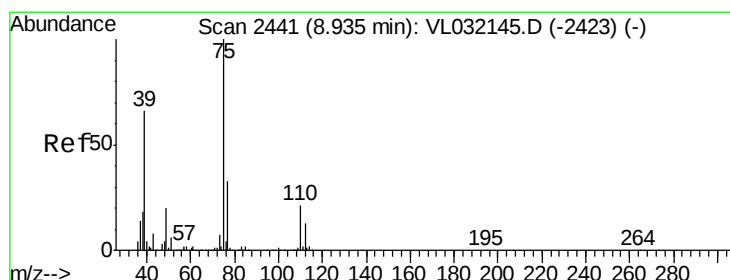
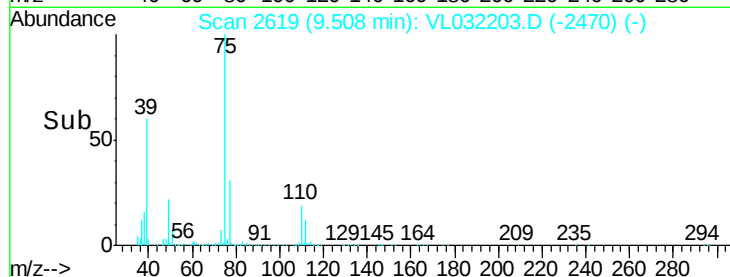
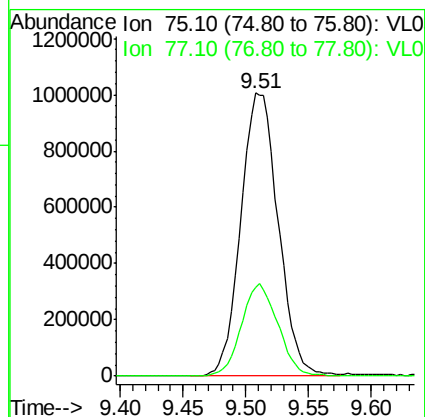
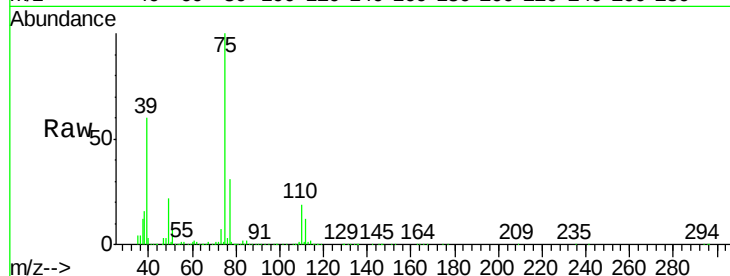
77 31.2 25.6 38.4

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#46

cis-1,3-Dichloropropene

Concen: 9.99 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

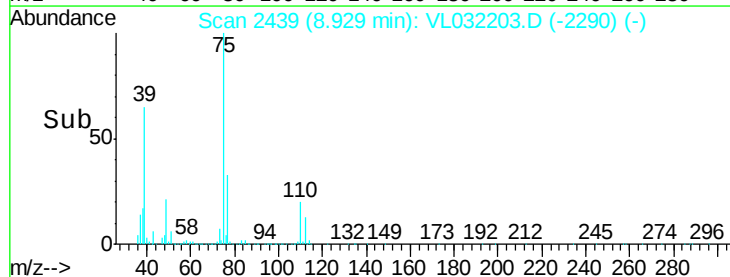
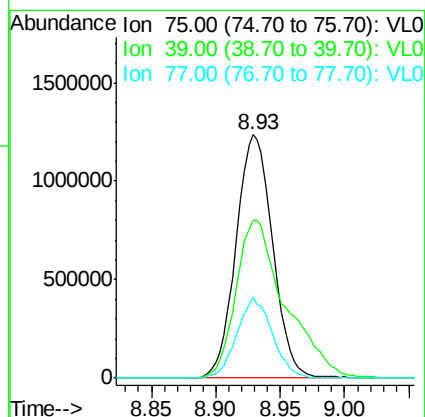
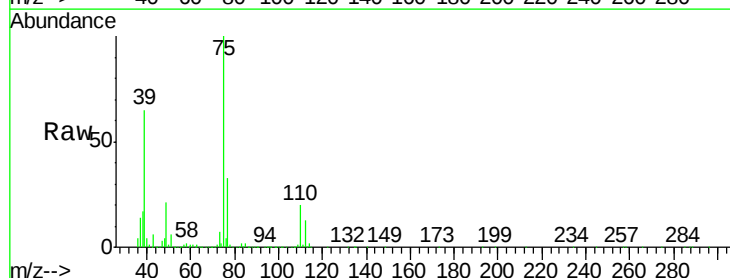
Tgt Ion: 75 Resp: 2436221

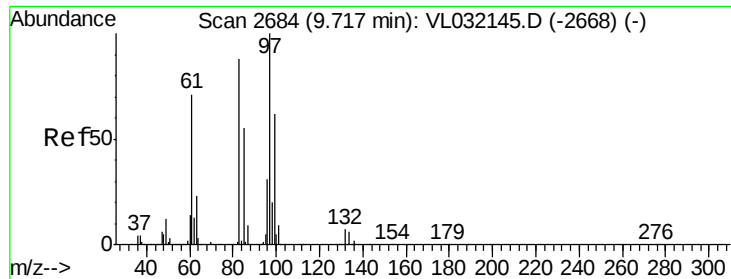
Ion Ratio Lower Upper

75 100

39 64.9 51.9 77.9

77 33.3 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 9.26 ppbv

RT: 9.71 min Scan# 2683

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 1509888

Ion Ratio Lower Upper

97 100

83 90.8 71.0 106.4

85 59.0 44.2 66.4

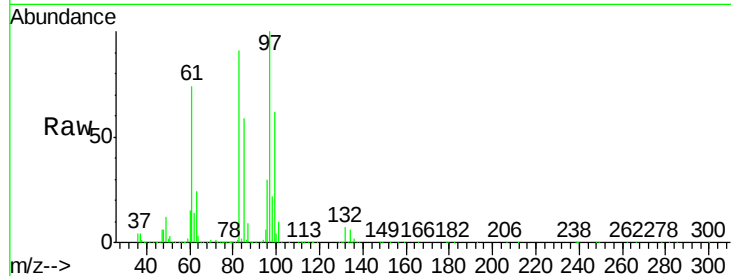
99 61.7 49.2 73.8

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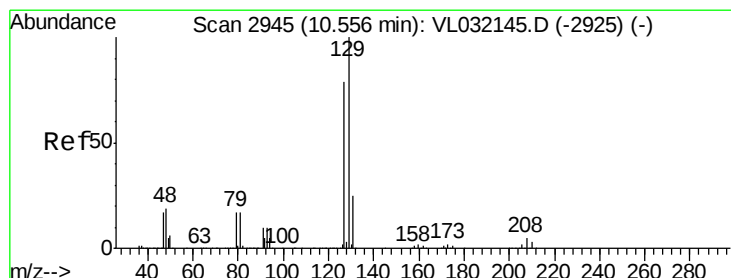
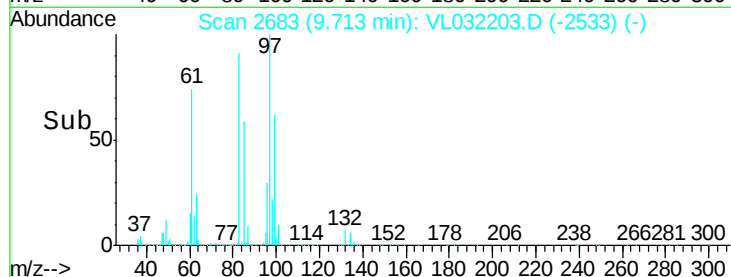
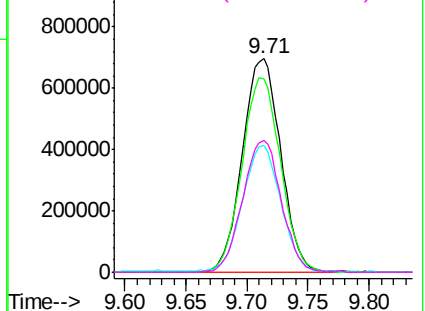


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.51 ppbv

RT: 10.55 min Scan# 2944

Delta R.T. -0.02 min

Lab File: VL032203.D

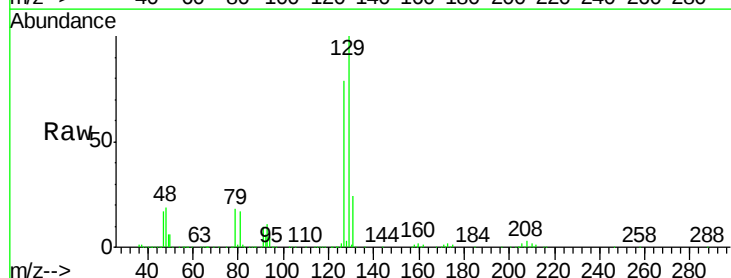
Acq: 5 Jul 2018 12:17

Tgt Ion: 129 Resp: 2400989

Ion Ratio Lower Upper

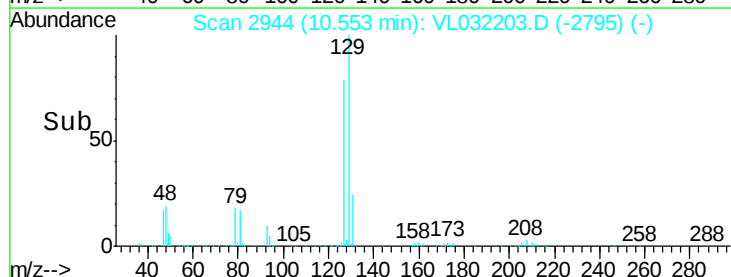
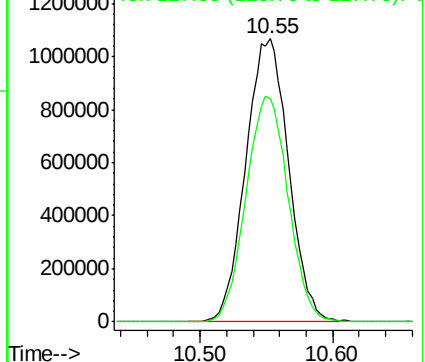
129 100

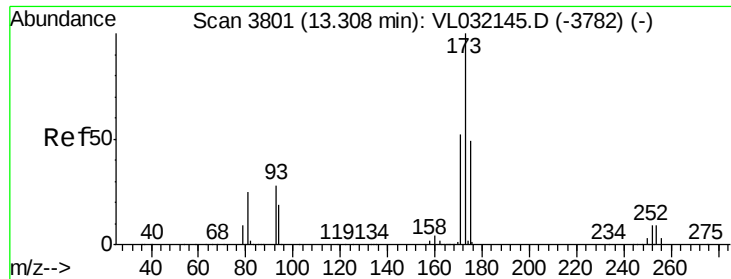
127 79.0 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





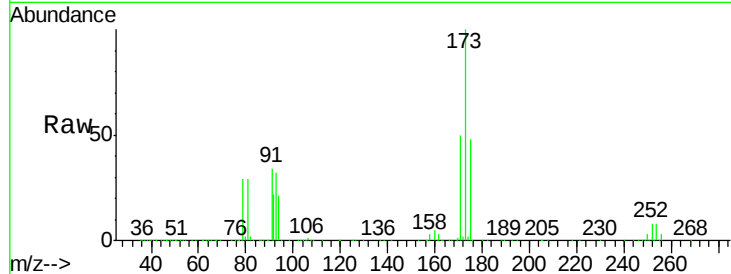
#49
Bromoform
Concen: 9.36 ppbv
RT: 13.30 min Scan# 3799
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

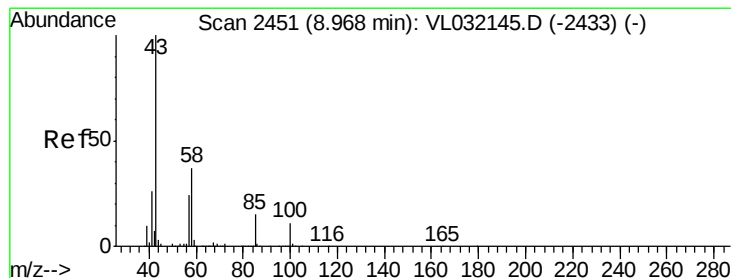
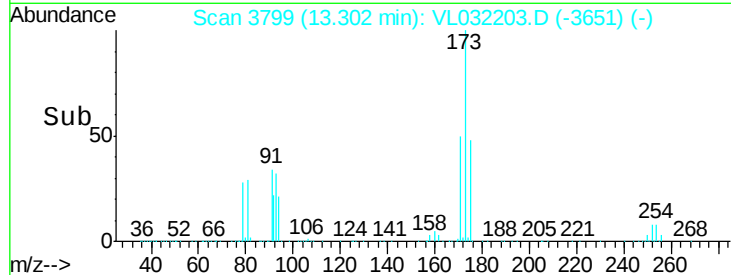
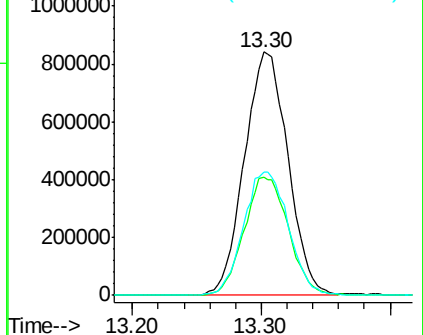
Tot Ion:173 Resp: 1979203
Ion Ratio Lower Upper
173 100
175 49.7 39.4 59.0
171 52.3 41.8 62.8

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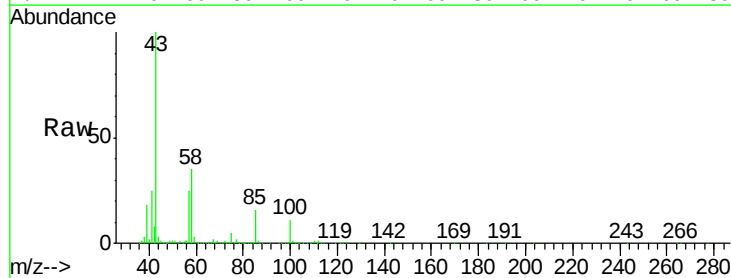


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

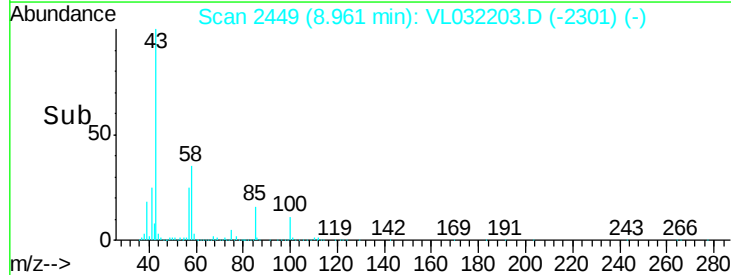
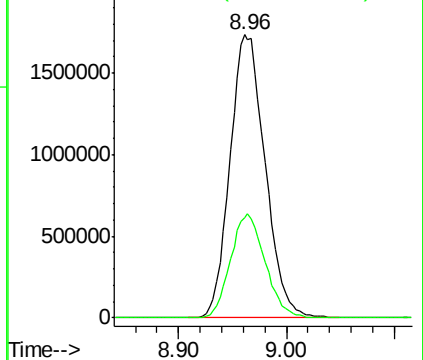


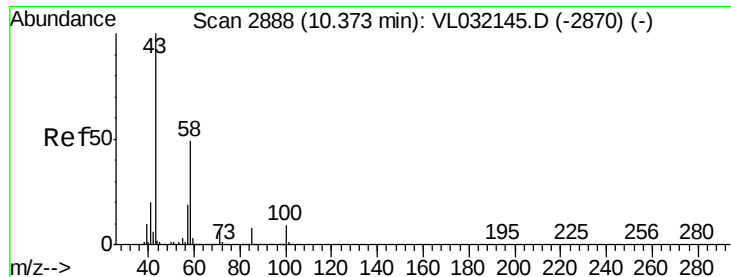
#50
4-Methyl-2-Pentanone
Concen: 9.19 ppbv
RT: 8.96 min Scan# 2449
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion: 43 Resp: 3927100
Ion Ratio Lower Upper
43 100
58 36.4 29.8 44.6



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





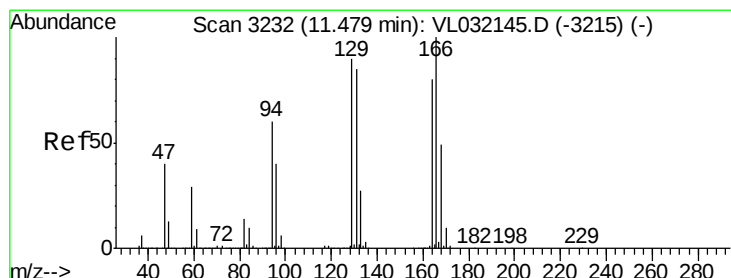
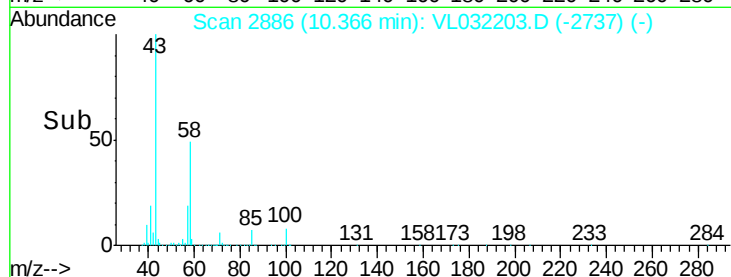
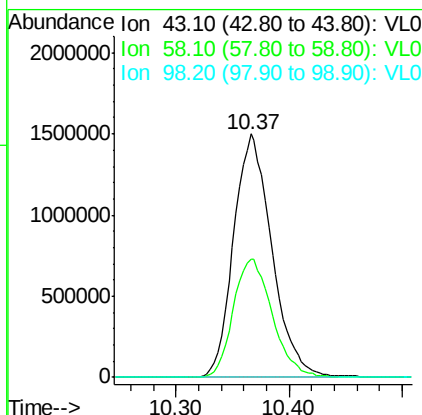
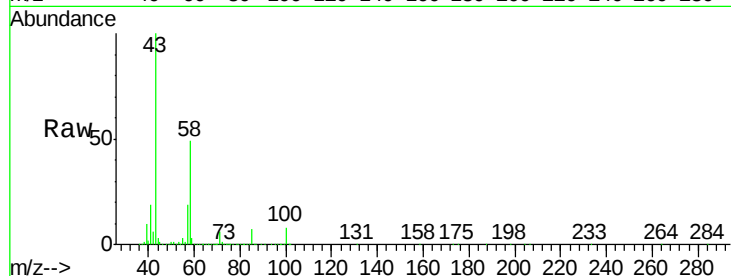
#51
2-Hexanone
Concen: 9.96 ppbv
RT: 10.37 min Scan# 2886
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 3528222
Ion Ratio Lower Upper
43 100
58 50.0 40.6 60.8
98 0.1 0.1 0.1

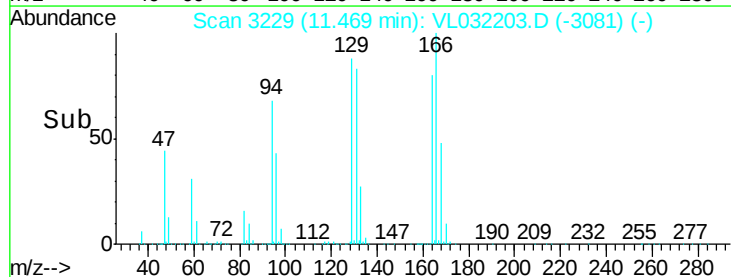
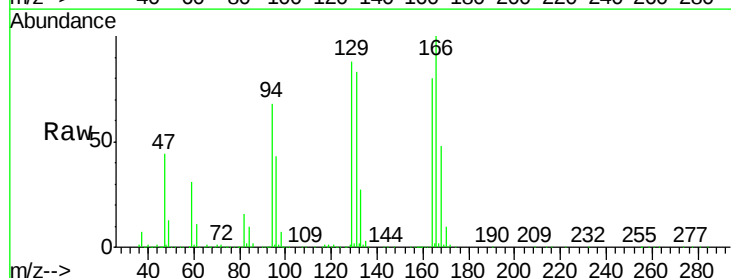
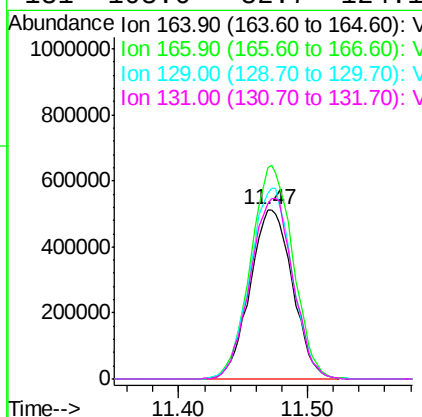
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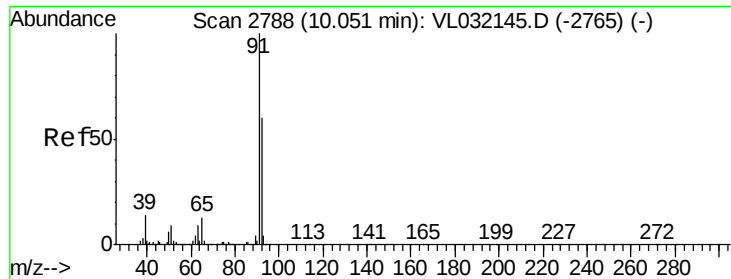
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#52
Tetrachloroethene
Concen: 8.13 ppbv
RT: 11.47 min Scan# 3229
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion: 164 Resp: 1175467
Ion Ratio Lower Upper
164 100
166 124.7 100.6 151.0
129 109.7 84.0 126.0
131 103.6 82.7 124.1





#53

Toluene

Concen: 9.38 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4508685

Ion Ratio Lower Upper

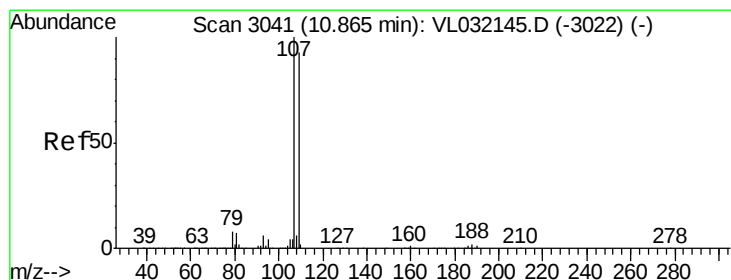
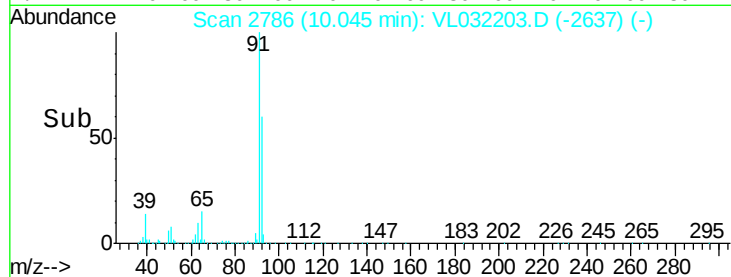
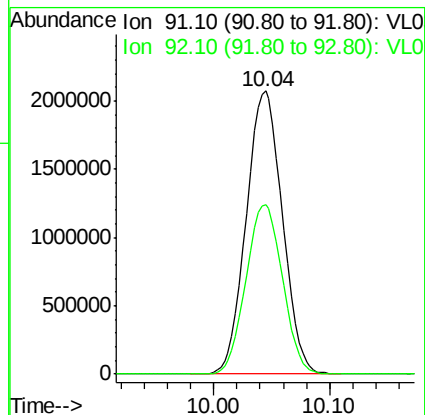
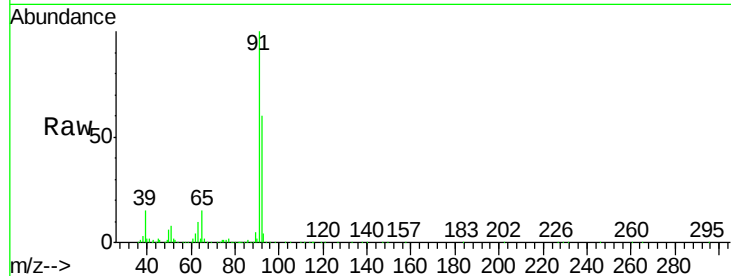
91 100

92 60.8 49.2 73.8

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#54

1,2-Dibromoethane

Concen: 9.46 ppbv

RT: 10.86 min Scan# 3039

Delta R.T. -0.02 min

Lab File: VL032203.D

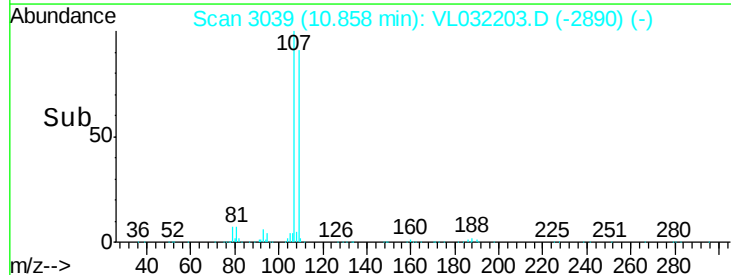
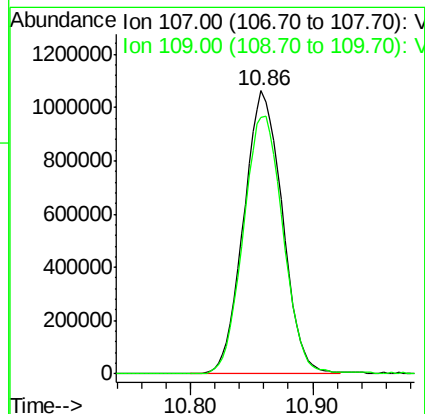
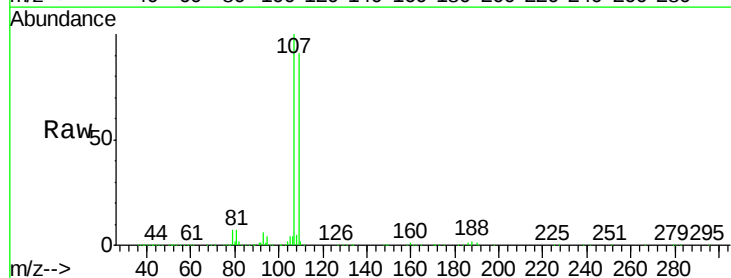
Acq: 5 Jul 2018 12:17

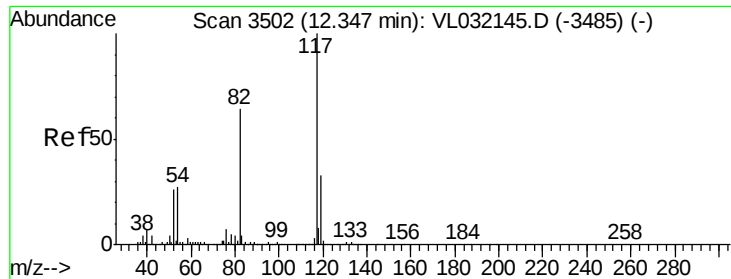
Tgt Ion: 107 Resp: 2318905

Ion Ratio Lower Upper

107 100

109 90.7 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.00 ppbv m

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 4037440

Ion Ratio Lower Upper

117 100

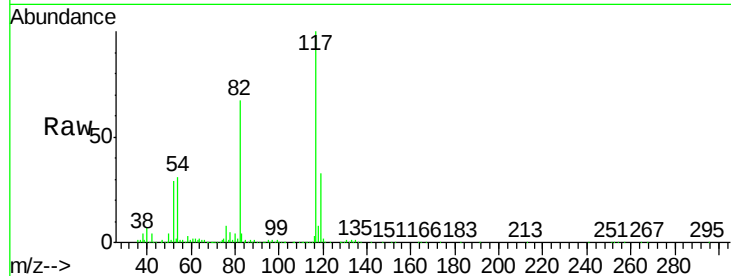
82 70.2 47.8 71.8

119 34.2 43.3 64.9#

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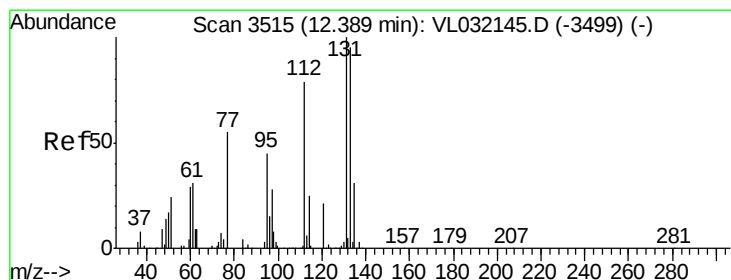
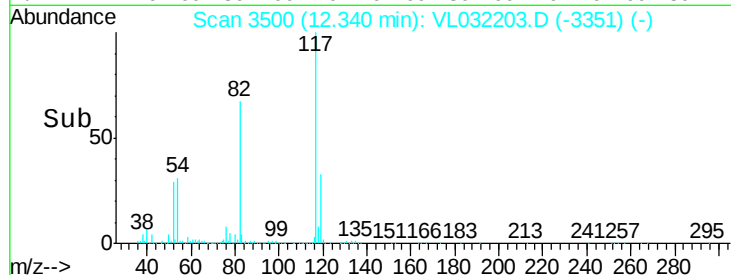
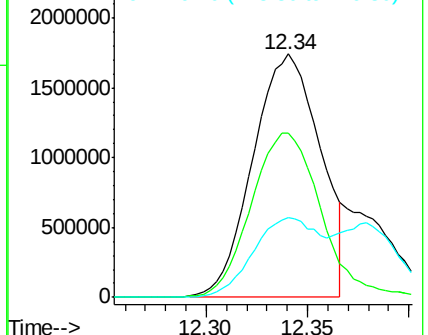
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.65 ppbv

RT: 12.38 min Scan# 3512

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

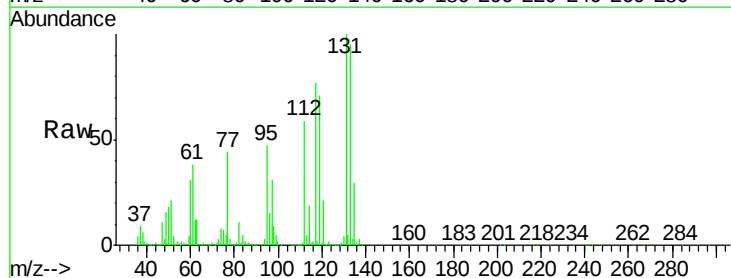
Tgt Ion:131 Resp: 1739069

Ion Ratio Lower Upper

131 100

133 95.4 75.5 113.3

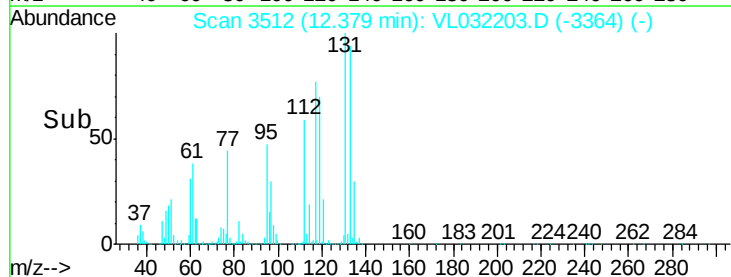
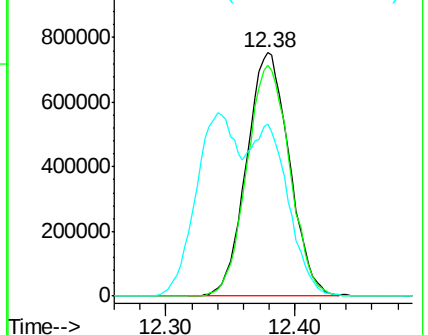
119 139.5 118.4 177.6

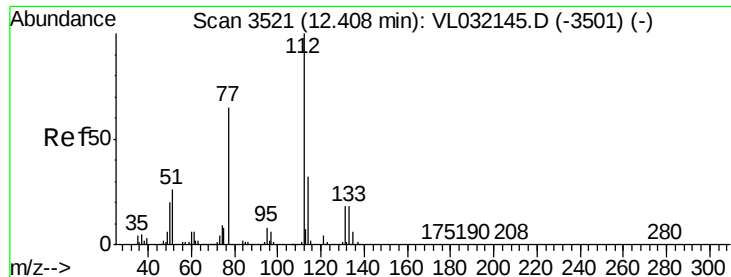


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.23 ppbv

RT: 12.40 min Scan# 3519

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 3227585

Ion Ratio Lower Upper

112 100

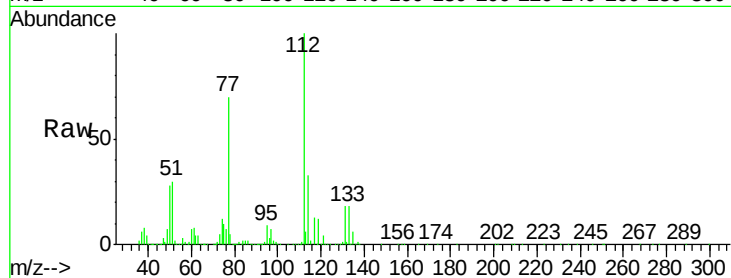
77 70.2 52.6 78.8

114 32.9 27.9 34.1

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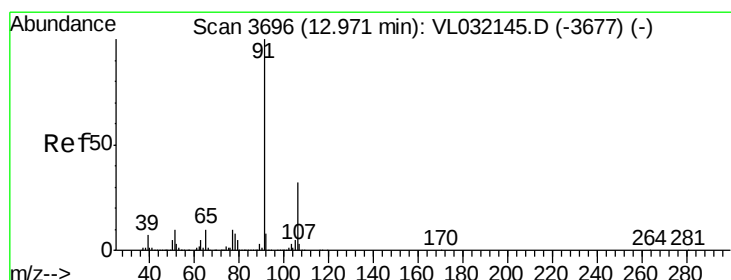
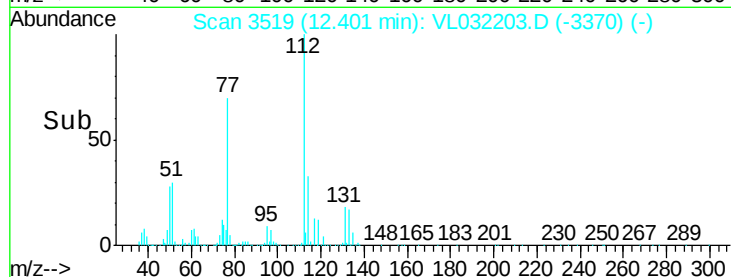
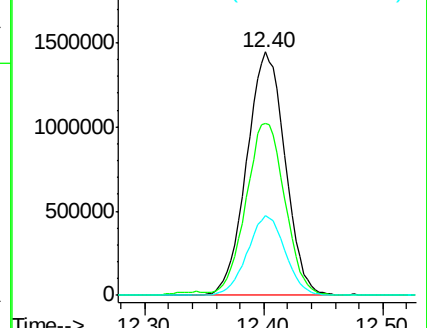
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.51 ppbv

RT: 12.96 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL032203.D

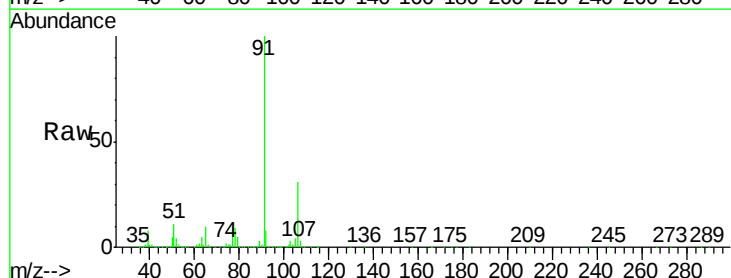
Acq: 5 Jul 2018 12:17

Tgt Ion: 91 Resp: 6186645

Ion Ratio Lower Upper

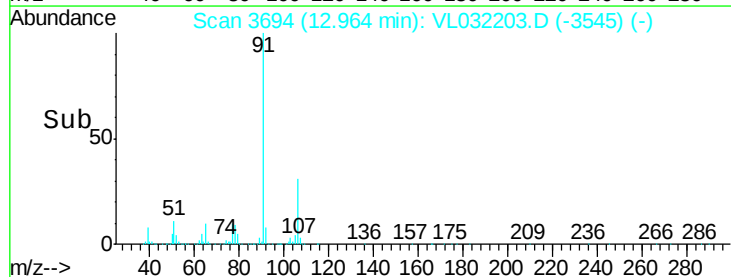
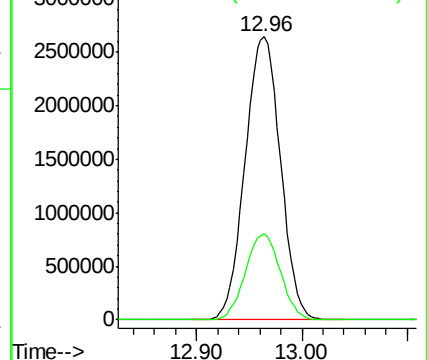
91 100

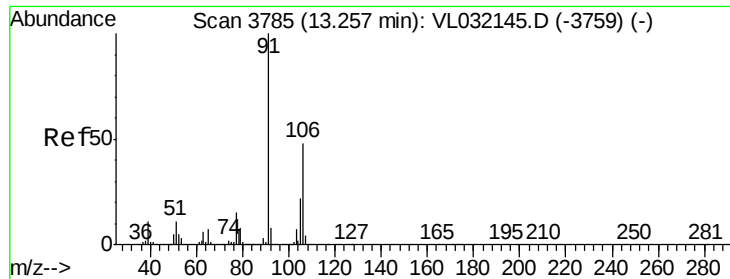
106 30.6 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





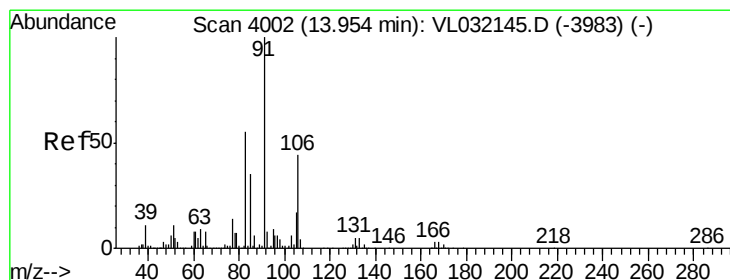
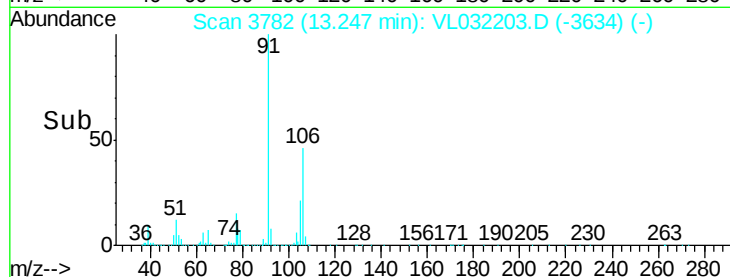
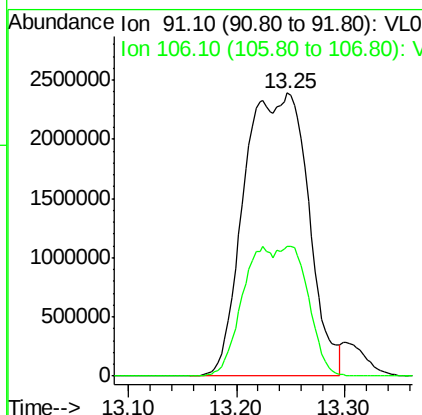
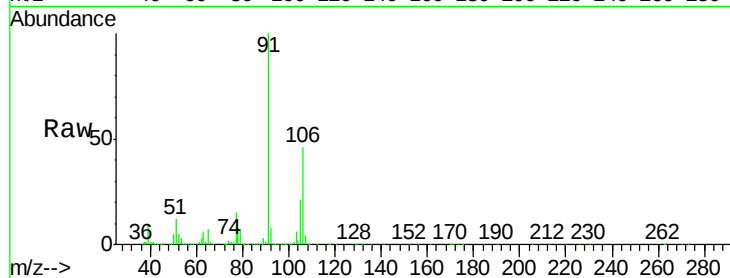
#59
m/p-Xylene
Concen: 18.85 ppbv m
RT: 13.25 min Scan# 3782
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 9834105
Ion Ratio Lower Upper
91 100
106 0.0 38.6 58.0#

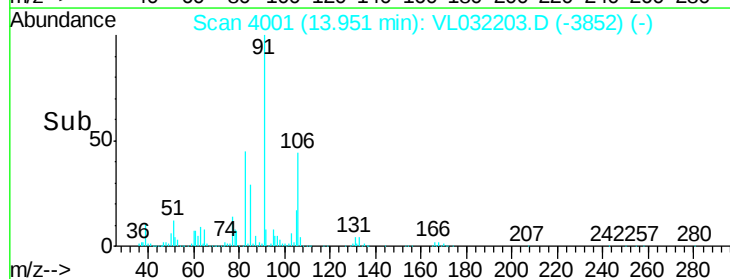
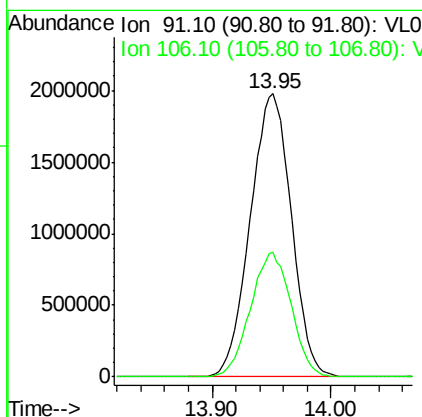
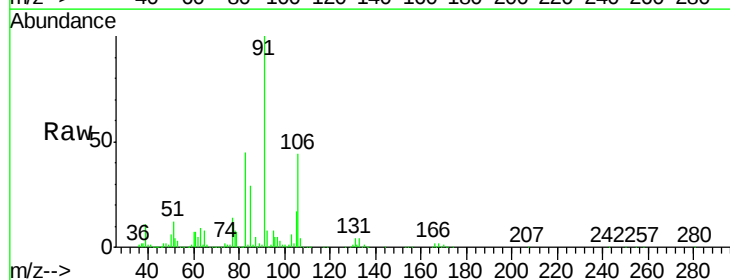
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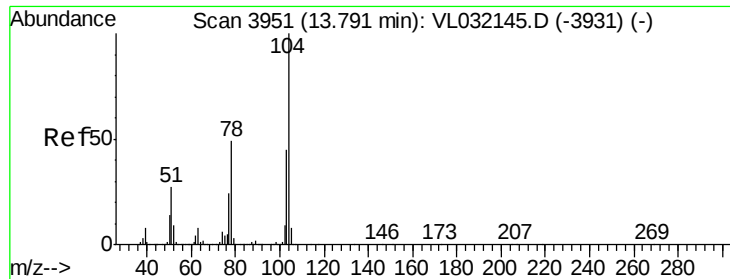
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#60
o-Xylene
Concen: 9.07 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion: 91 Resp: 4719615
Ion Ratio Lower Upper
91 100
106 43.6 23.3 69.8





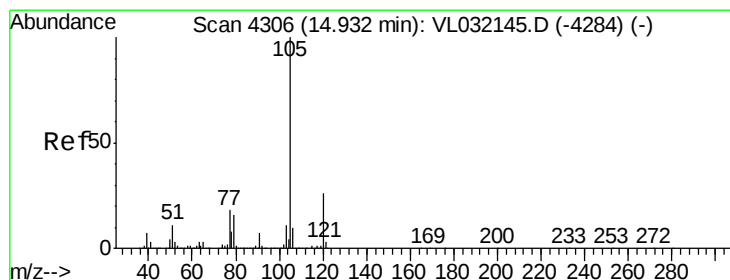
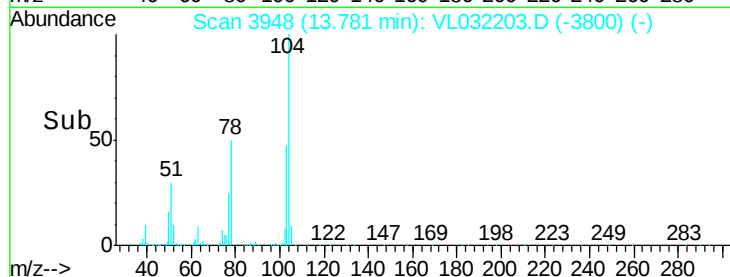
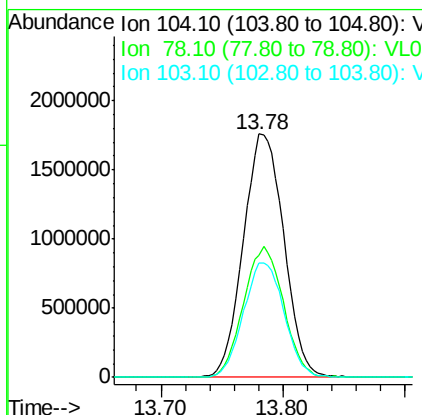
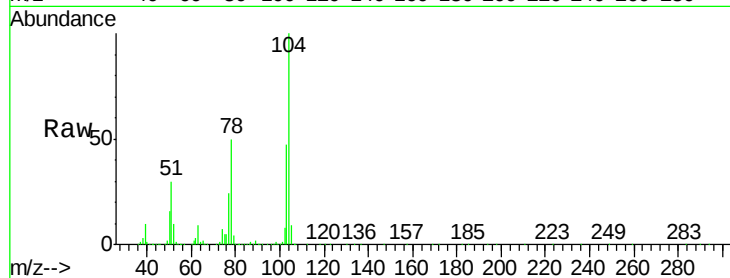
#61
Stvrene
Concen: 9.48 ppbv
RT: 13.78 min Scan# 3948
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:104 Resp: 4042411
Ion Ratio Lower Upper
104 100
78 53.0 37.9 56.9
103 47.3 36.6 55.0

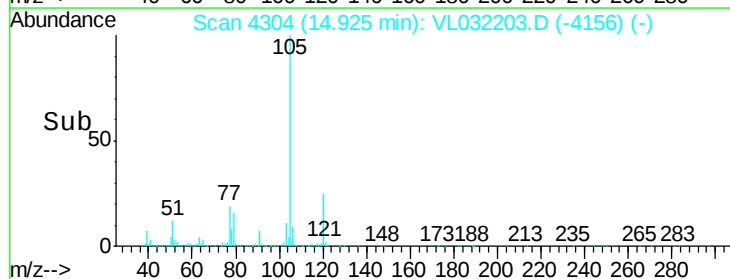
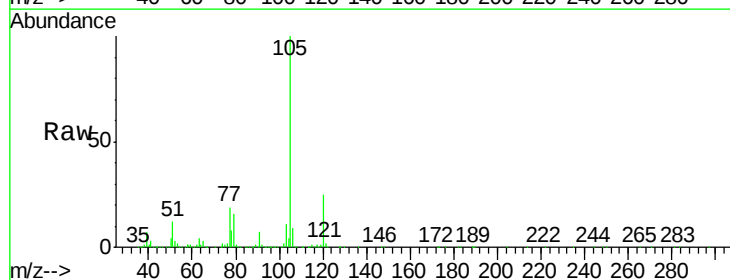
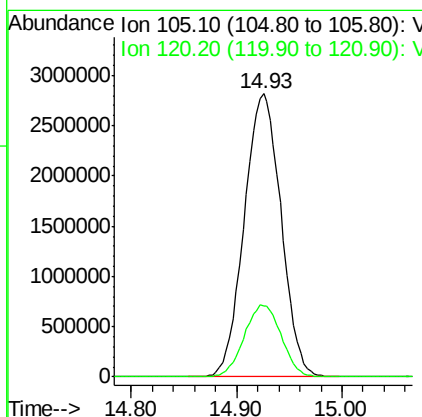
Manual Integrations
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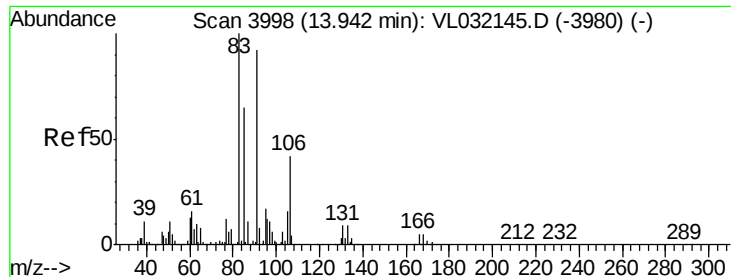
MMDadoda
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#62
Isopropylbenzene
Concen: 8.57 ppbv
RT: 14.93 min Scan# 4304
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion:105 Resp: 6852656
Ion Ratio Lower Upper
105 100
120 25.6 21.0 31.4





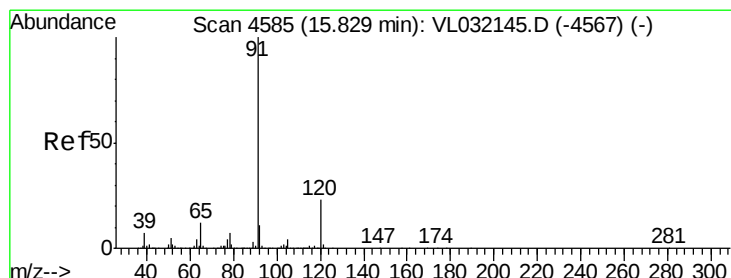
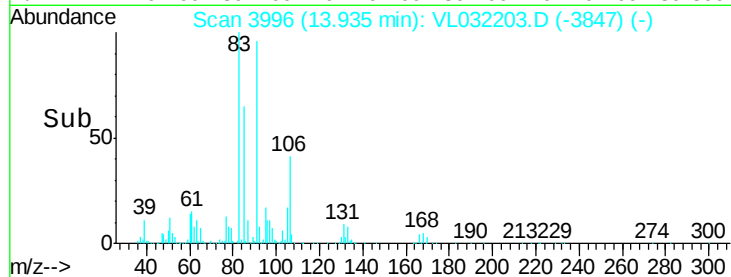
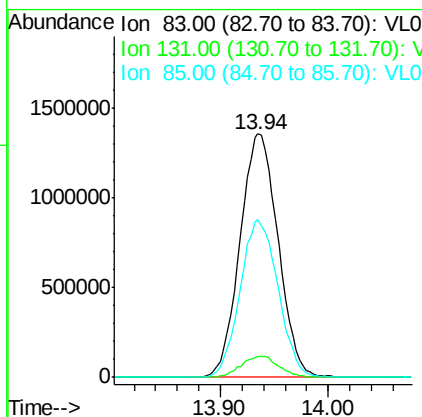
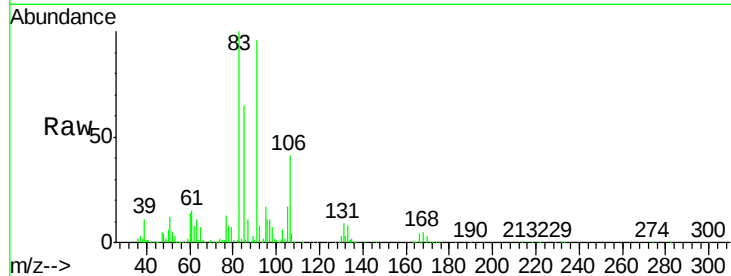
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.26 ppbv
 RT: 13.94 min Scan# 3996
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 3327037
 Ion Ratio Lower Upper
 83 100
 131 8.7 4.6 13.8
 85 65.0 32.4 97.2

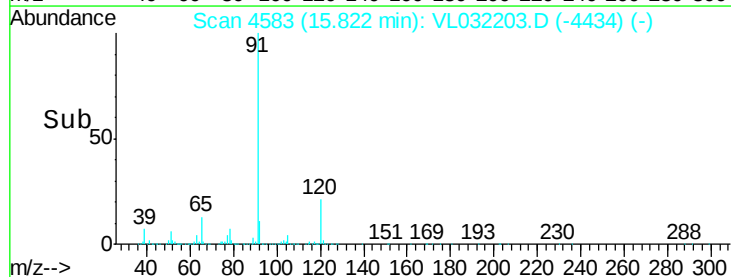
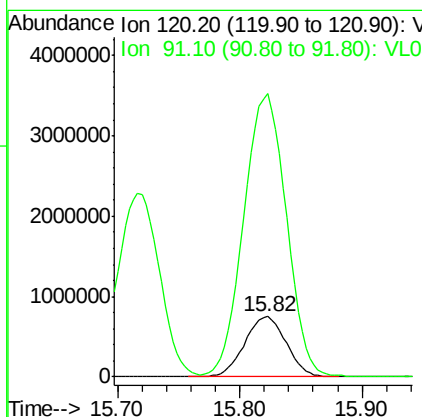
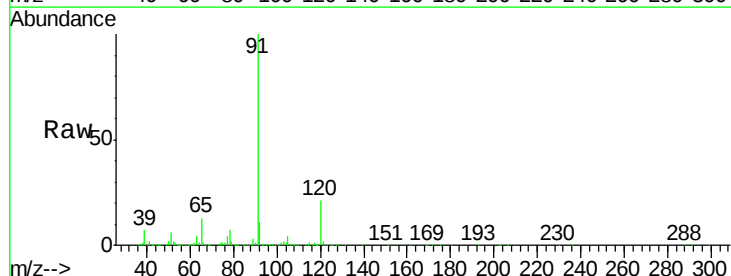
Manual Integrations
 APPROVED

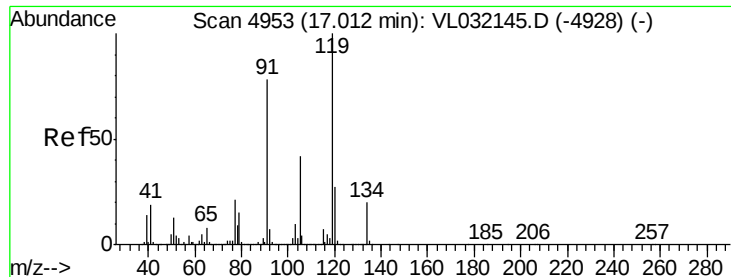
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#64
 n-propylbenzene
 Concen: 8.56 ppbv
 RT: 15.82 min Scan# 4583
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Tgt Ion:120 Resp: 1771607
 Ion Ratio Lower Upper
 120 100
 91 481.7 357.4 536.0





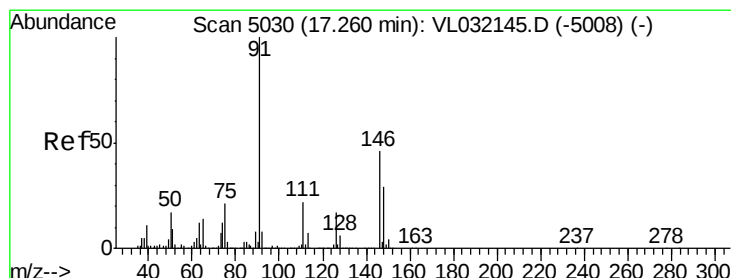
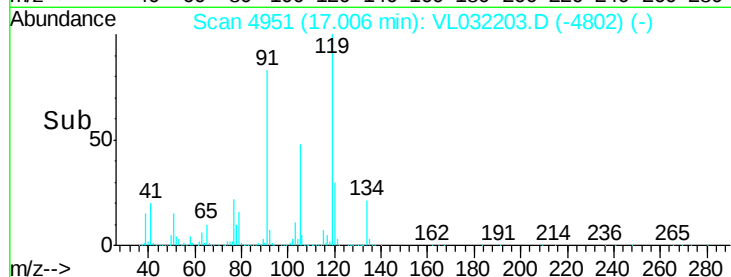
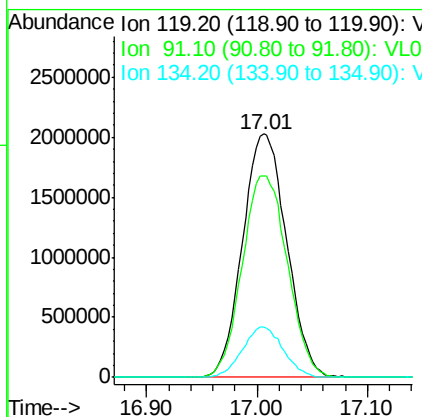
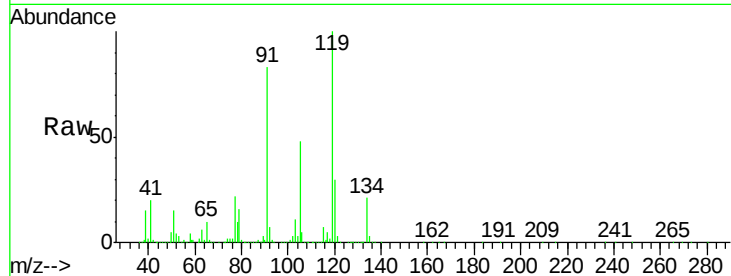
#65
 tert-Butylbenzene
 Concen: 7.96 ppbv
 RT: 17.01 min Scan# 4951
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:119 Resp: 5593589
 Ion Ratio Lower Upper
 119 100
 91 85.2 62.2 93.2
 134 19.1 16.2 24.2

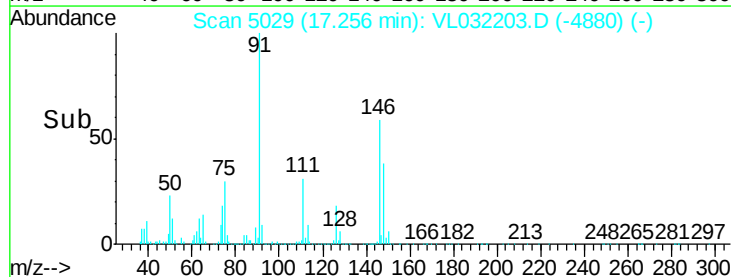
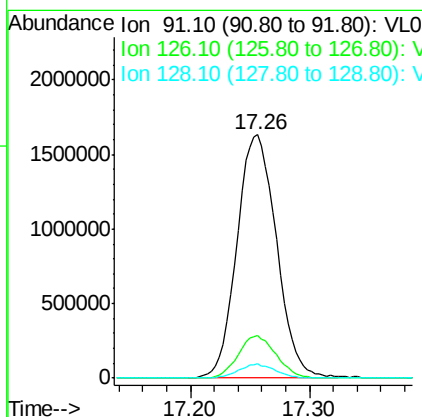
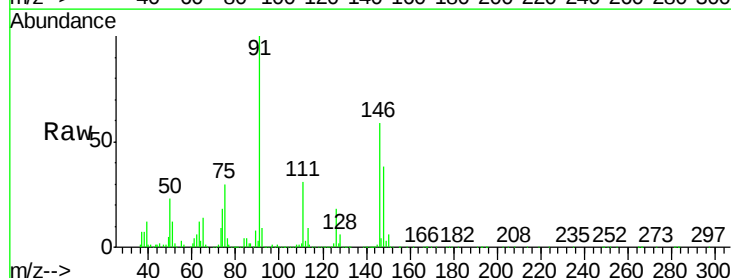
Manual Integrations
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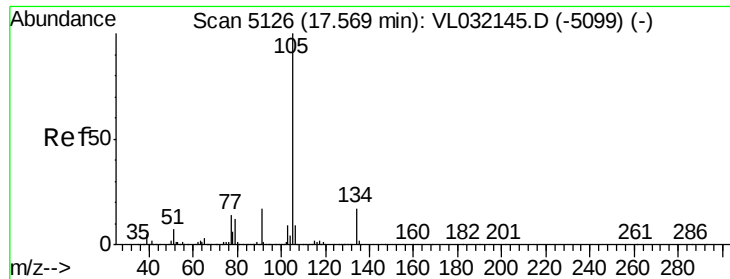
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#66
 Benzyl Chloride
 Concen: 8.63 ppbv
 RT: 17.26 min Scan# 5029
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Tgt Ion: 91 Resp: 3748154
 Ion Ratio Lower Upper
 91 100
 126 16.9 15.7 23.5
 128 5.5 5.2 7.8





#67

sec-Butylbenzene

Concen: 8.09 ppbv

RT: 17.56 min Scan# 5123

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 8324467

Ion Ratio Lower Upper

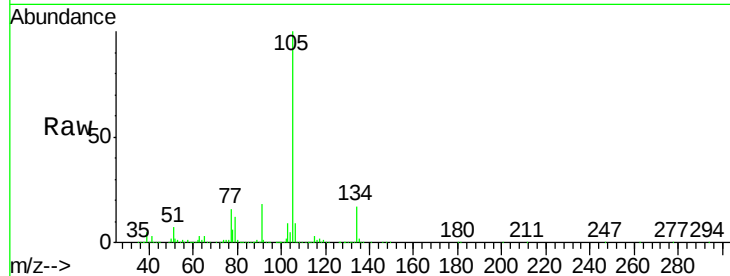
105 100

134 17.5 14.7 22.1

Manual Integrations
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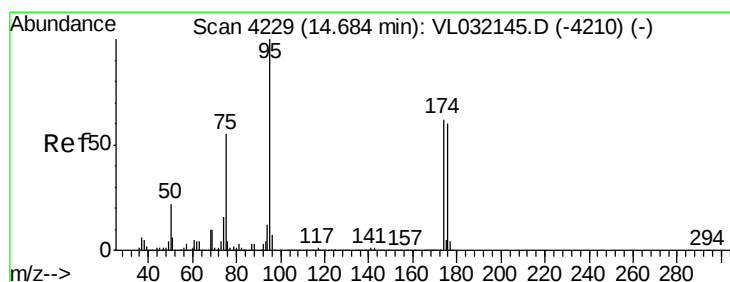
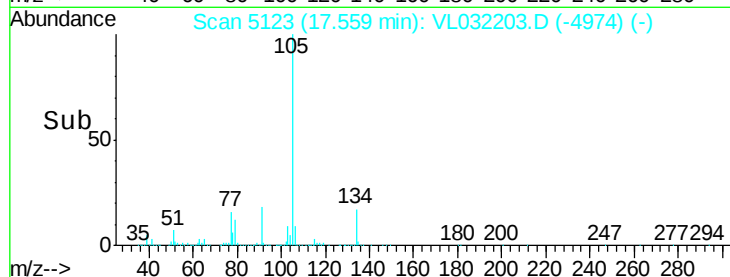
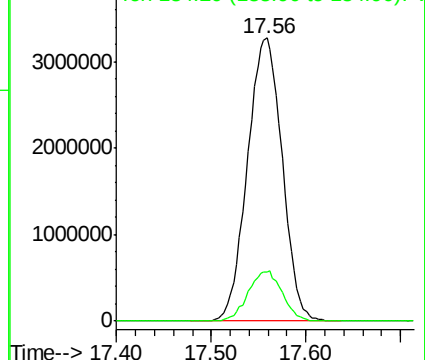
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.91 ppbv

RT: 14.67 min Scan# 4226

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

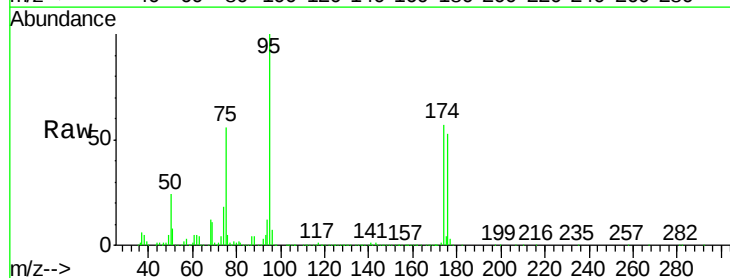
Tgt Ion: 95 Resp: 3059364

Ion Ratio Lower Upper

95 100

174 56.8 52.1 78.1

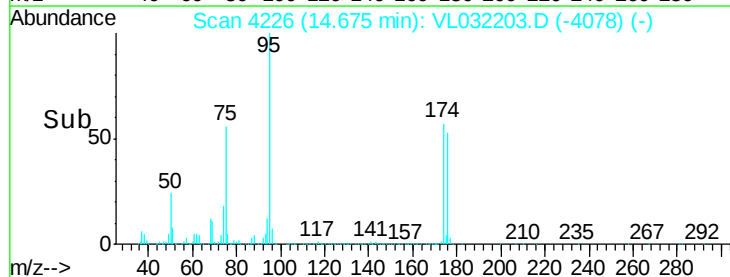
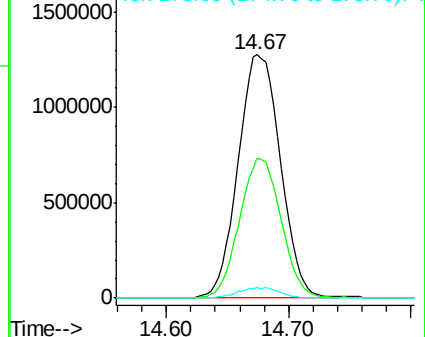
175 4.2 4.0 6.0

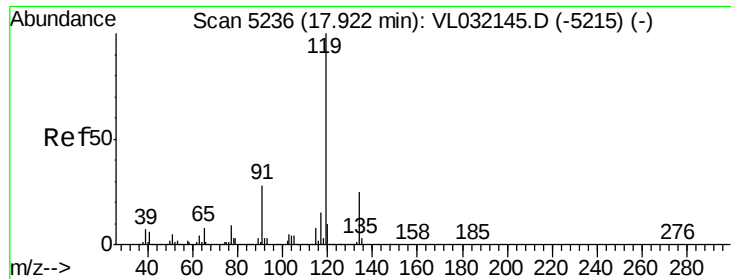


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





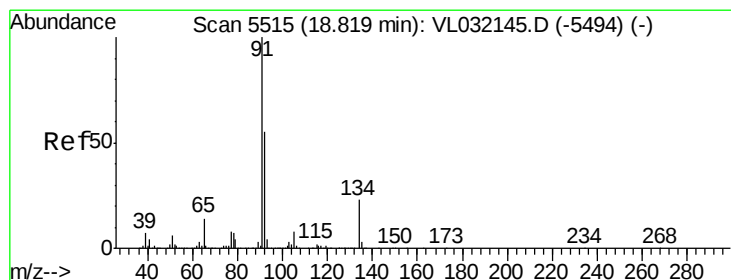
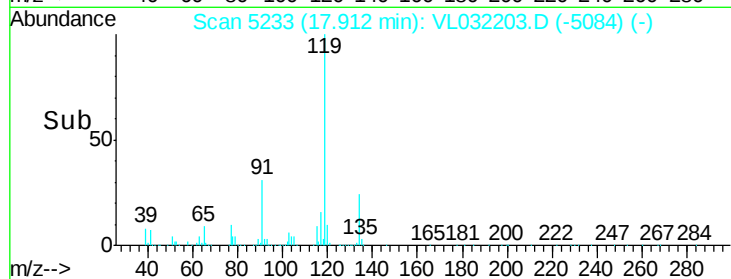
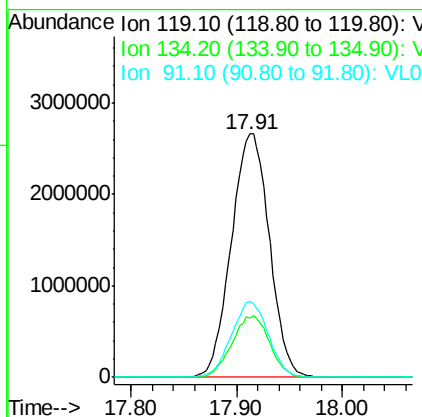
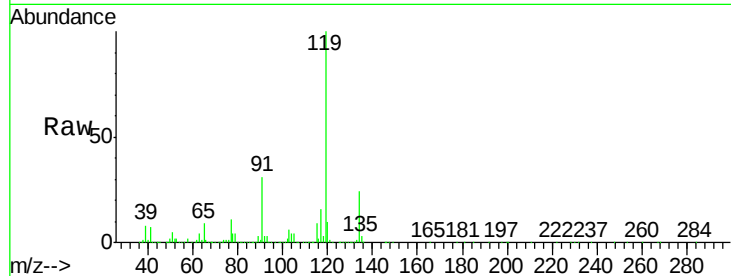
#69
 p-Isopropyltoluene
 Concen: 8.06 ppbv
 RT: 17.91 min Scan# 5236
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.7	31.1
91	30.3	21.8	32.8

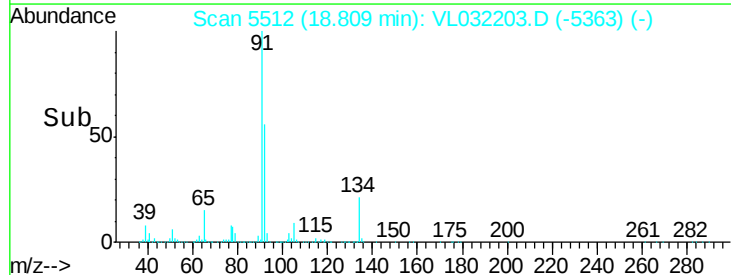
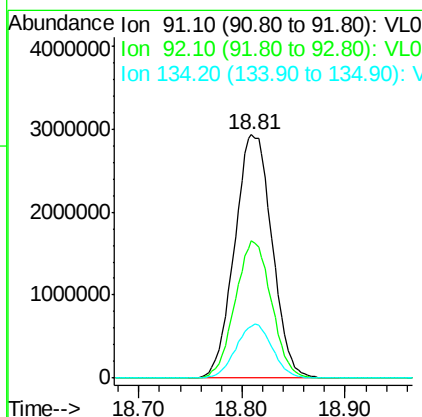
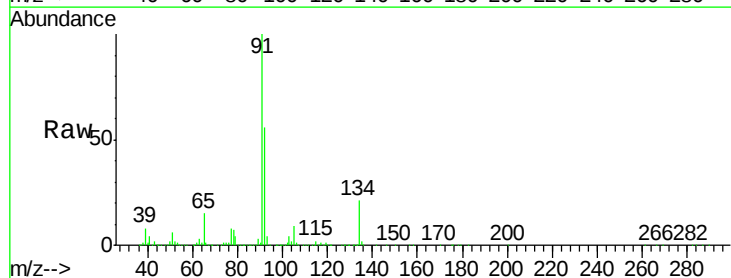
Manual Integrations
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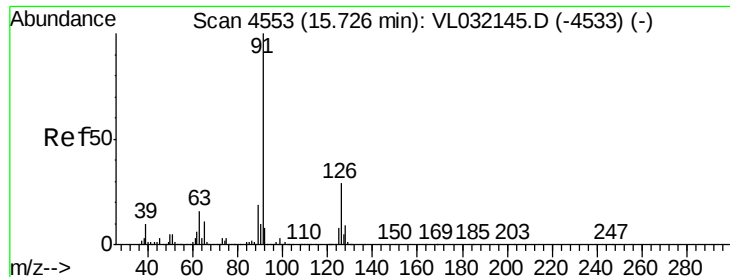
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#70
 n-Butylbenzene
 Concen: 8.56 ppbv
 RT: 18.81 min Scan# 5512
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.7	65.5
134	21.5	18.9	28.3





#71

2-Chlorotoluene

Concen: 8.88 ppbv

RT: 15.72 min Scan# 4550

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 5469661

Ion Ratio Lower Upper

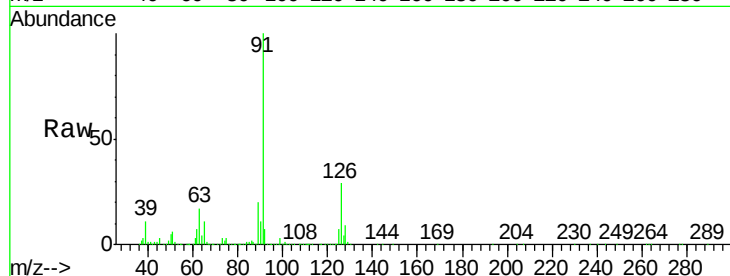
91 100

126 29.0 12.8 51.0

Manual Integrations
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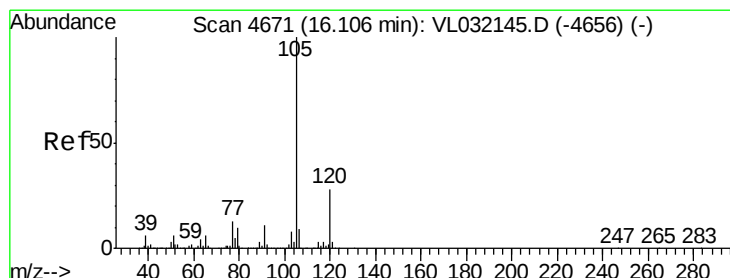
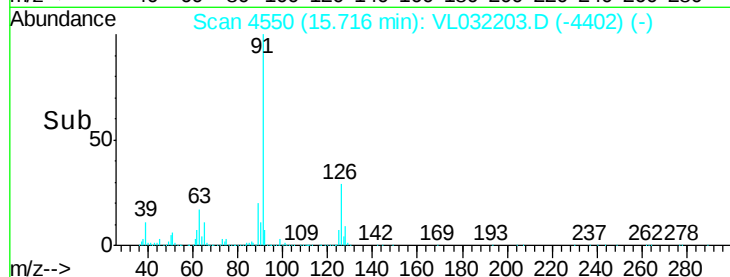
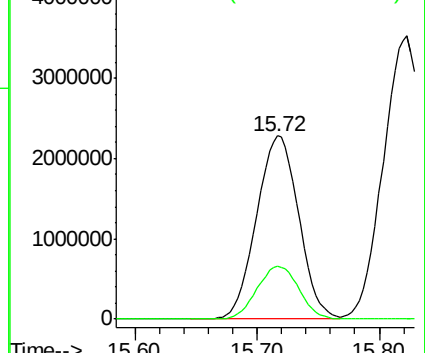
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.53 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Tgt Ion:105 Resp: 5729241

Ion Ratio Lower Upper

105 100

120 28.9 24.3 36.5

91 12.8 9.4 14.0

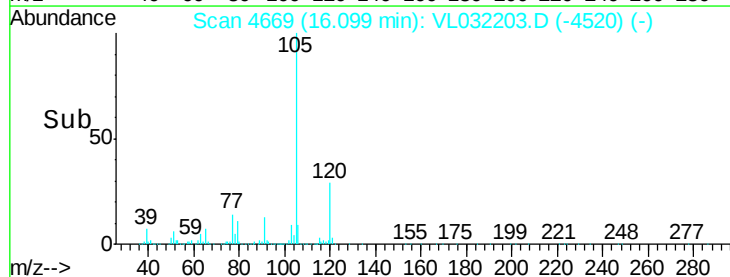
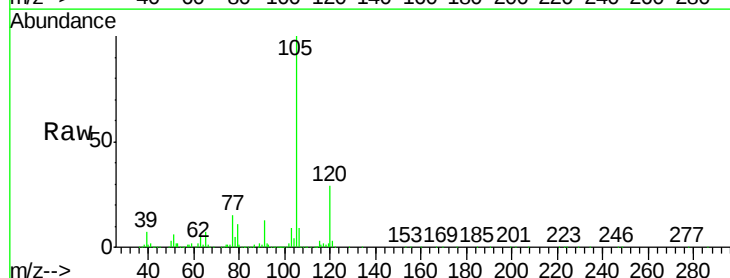
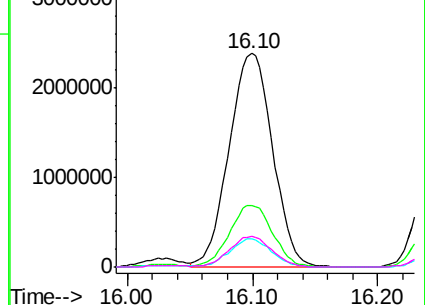
77 14.1 10.2 15.2

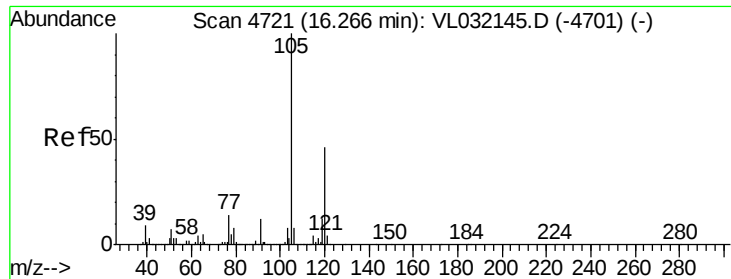
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 8.56 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:105 Resp: 5415723

Ion Ratio Lower Upper

105 100

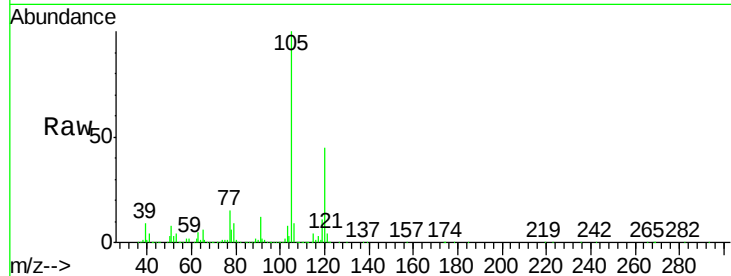
120 44.7 38.6 57.8

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2500000

2000000

1500000

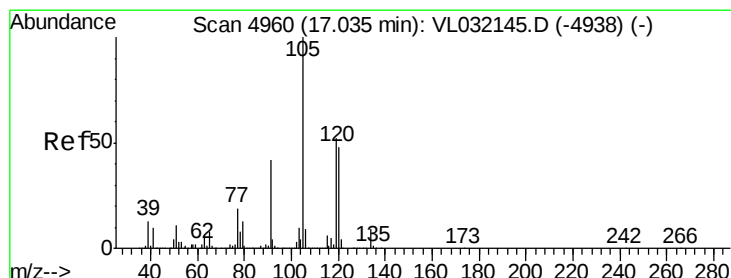
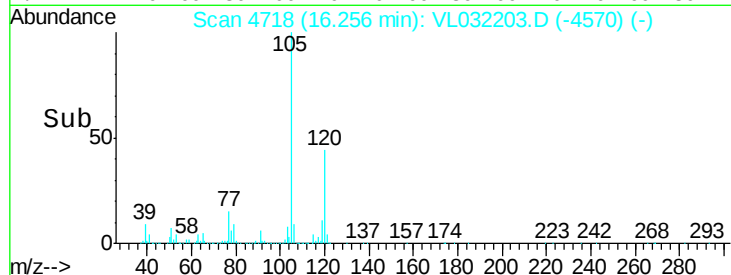
1000000

500000

0

16.20 16.30

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.23 ppbv

RT: 17.02 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Tgt Ion:105 Resp: 5256220

Ion Ratio Lower Upper

105 100

120 46.1 38.8 58.2

91 49.7 33.6 50.4

77 22.7 16.0 24.0

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

3000000

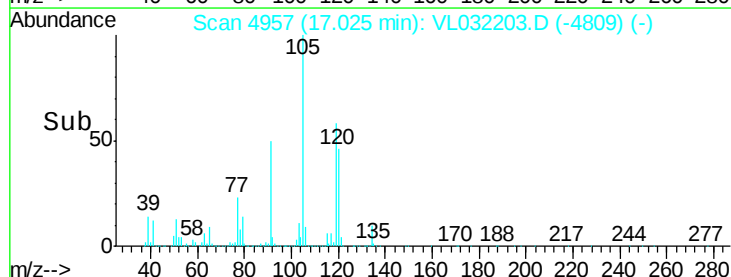
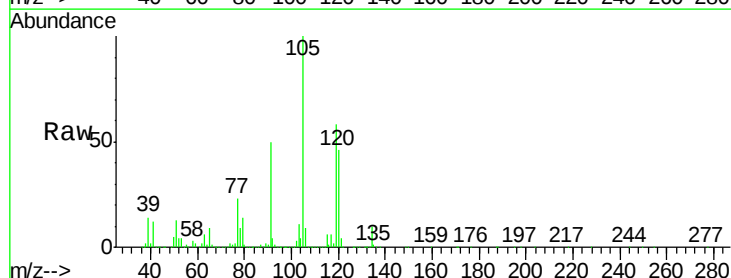
2000000

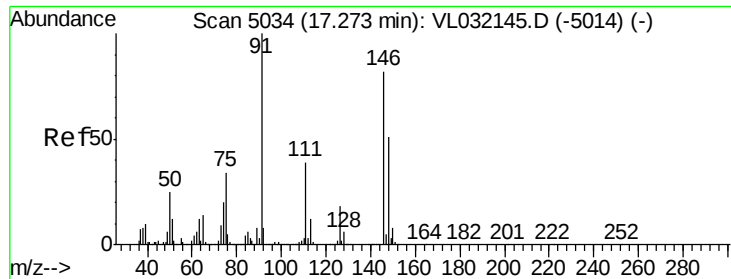
1000000

0

16.90 17.00 17.10

Time-->





#75

1,3-Dichlorobenzene

Concen: 7.84 ppbv

RT: 17.27 min Scan# 5032

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2846822

Ion Ratio Lower Upper

146 100

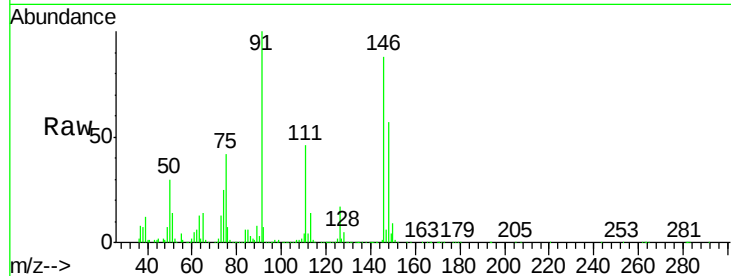
111 50.4 22.9 68.8

148 64.2 31.7 95.1

Manual Integrations
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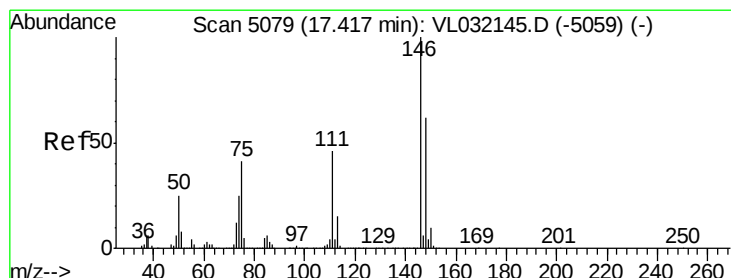
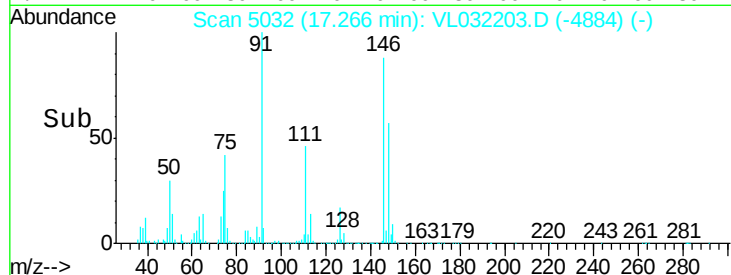
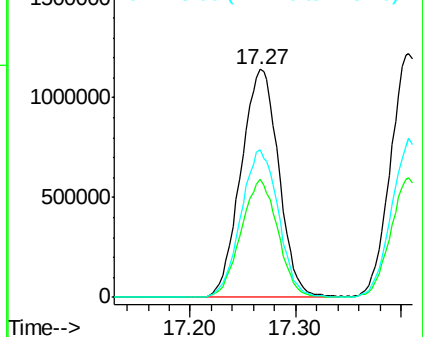
7/16/2018 6:19:01 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.00 ppbv

RT: 17.41 min Scan# 5076

Delta R.T. -0.02 min

Lab File: VL032203.D

Acq: 5 Jul 2018 12:17

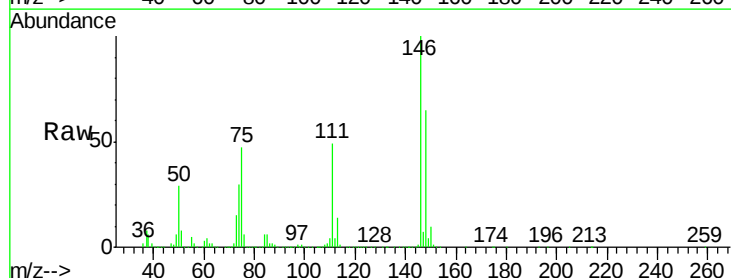
Tgt Ion:146 Resp: 2946422

Ion Ratio Lower Upper

146 100

111 48.3 21.9 65.8

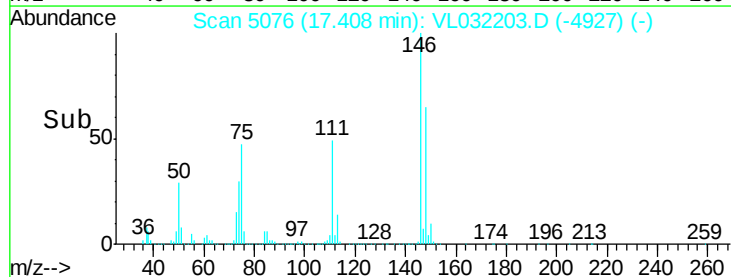
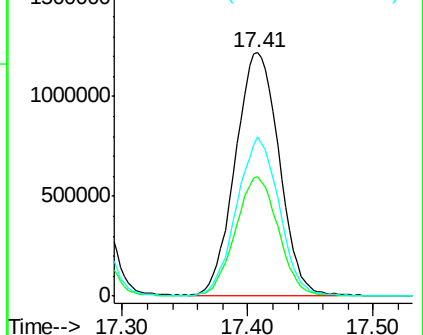
148 64.2 32.1 96.5

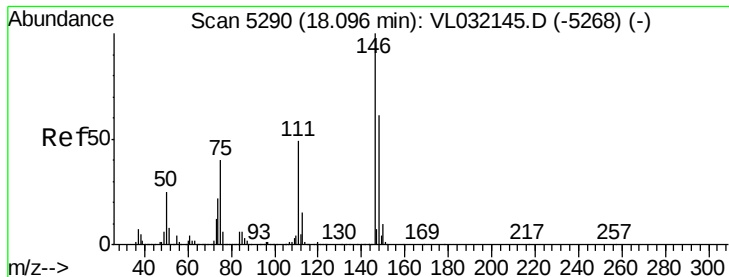


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





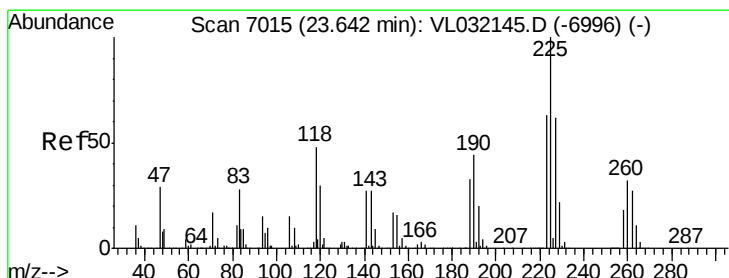
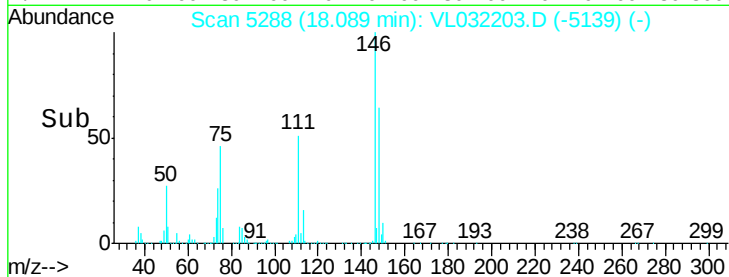
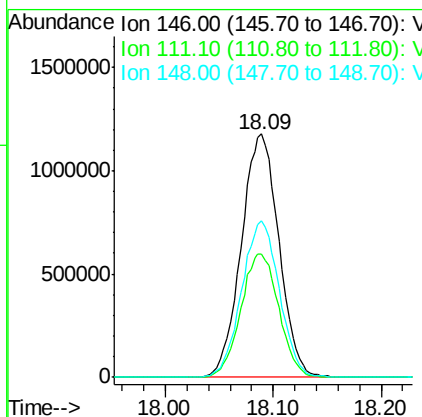
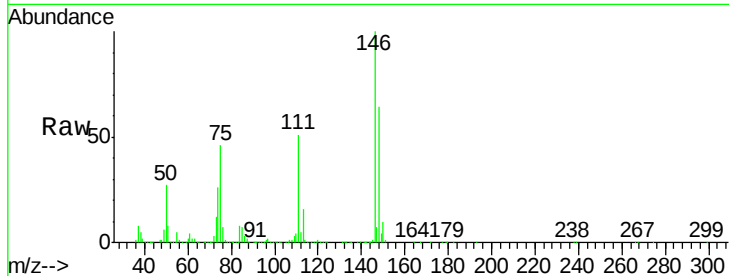
#77
 1,2-Dichlorobenzene
 Concen: 7.86 ppbv
 RT: 18.09 min Scan# 5288
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.4	23.4	70.3
148	64.5	32.0	96.0

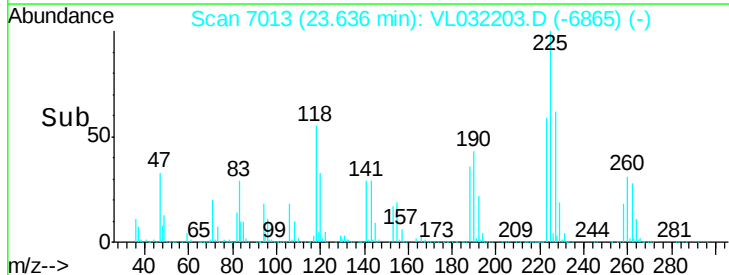
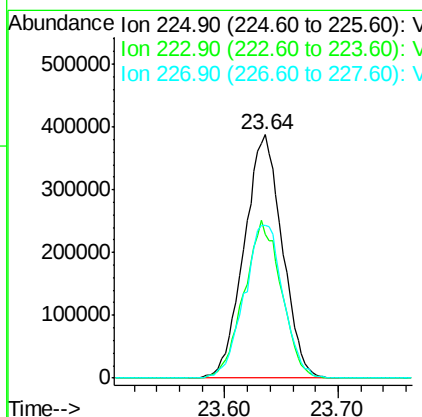
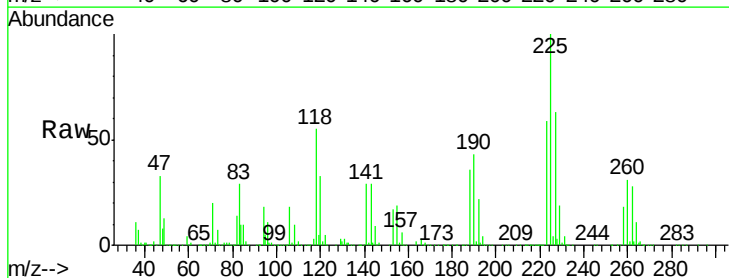
Manual Integrations
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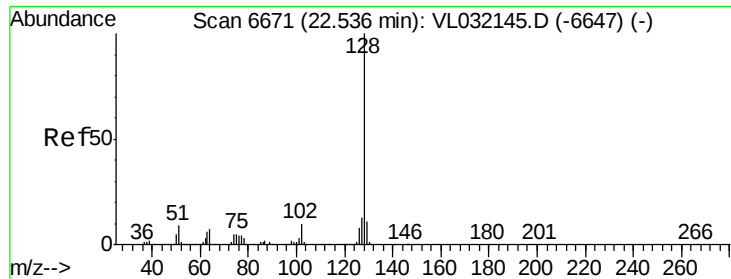
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.16 ppbv
 RT: 23.64 min Scan# 7013
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.6	51.0	76.4
227	64.4	51.4	77.0





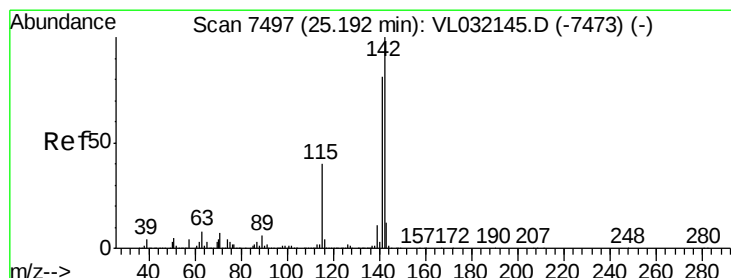
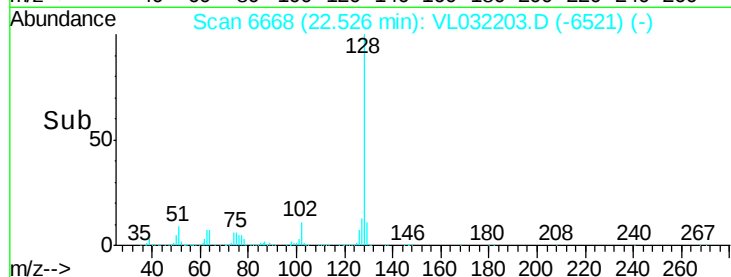
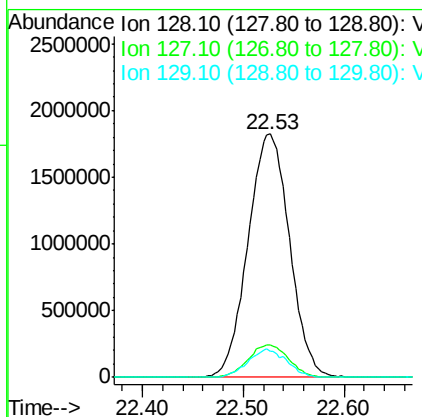
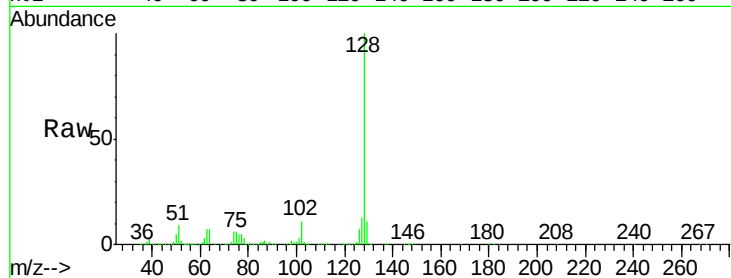
#79
Naphthalene
Concen: 8.98 ppbv
RT: 22.53 min Scan# 6668
Delta R.T. -0.03 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.8	9.0	13.6

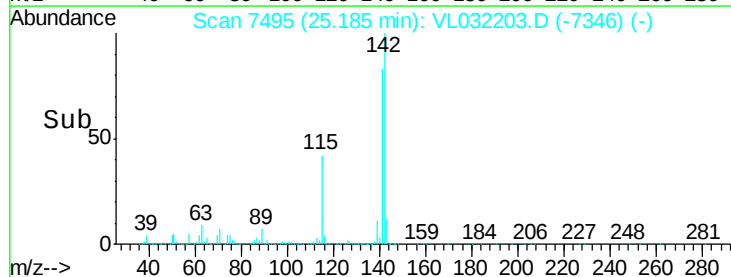
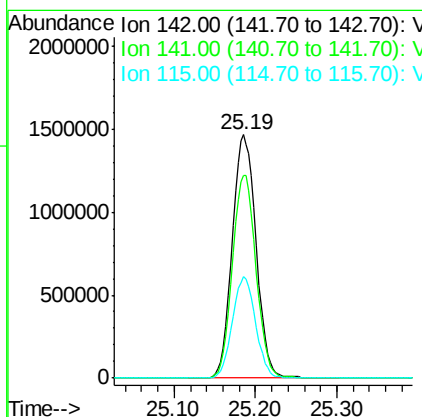
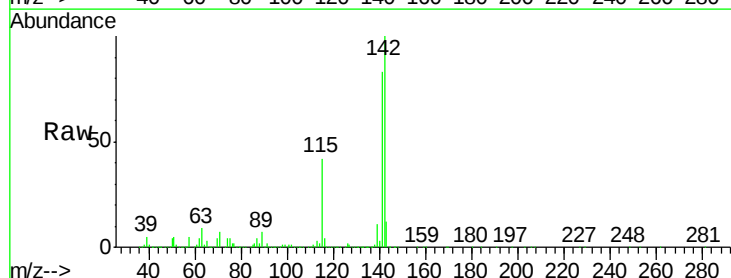
Manual Integrations
APPROVED

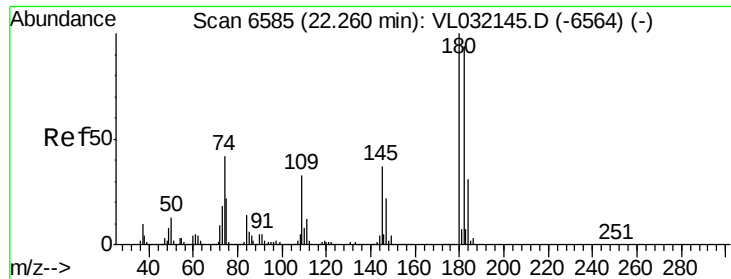
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#80
Naphthalene, 2-methyl-
Concen: 14.35 ppbv
RT: 25.19 min Scan# 7495
Delta R.T. -0.02 min
Lab File: VL032203.D
Acq: 5 Jul 2018 12:17

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.5	65.8	98.6
115	40.8	29.4	44.0





#81
 1,2,4-Trichlorobenzene
 Concen: 9.19 ppbv
 RT: 22.25 min Scan# 6582
 Delta R.T. -0.02 min
 Lab File: VL032203.D
 Acq: 5 Jul 2018 12:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.2	114.4
184	30.5	24.4	36.6

Manual Integrations
 APPROVED

MMDadoda
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