

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034679.D
 Acq On : 26 Feb 2020 4:23
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:24 PM

Quant Time: Feb 26 06:38:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 2020
 QLast Update : Wed Feb 26 03:37:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1121067	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2348486	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2294995	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1921042	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	108141	0.624 ppbv	98
3) Chlorodifluoromethane	2.95	51	64073	0.472 ppbv	97
4) Chloromethane	3.11	50	33739	0.413 ppbv	92
5) Vinyl Chloride	3.23	62	32879	0.433 ppbv	97
6) Bromomethane	3.44	94	20534	0.518 ppbv #	77
7) Chloroethane	3.53	64	13510	0.484 ppbv #	81
8) Dichlorotetrafluoroethane	3.16	85	85950	0.494 ppbv	98
9) Propene	2.97	41	25958	0.473 ppbv	100
10) Heptane	8.13	43	59201	0.410 ppbv	96
11) Trichlorofluoromethane	3.93	101	82348	0.468 ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.47	101	60194	0.496 ppbv	98
13) Ethanol	3.59	45	11820m	0.699 ppbv	
14) Bromoethene	3.71	108	23519	0.470 ppbv #	97
15) Acetone	3.84	43	70409	0.463 ppbv	95
16) 1,3-Butadiene	3.29	39	30439	0.470 ppbv	98
17) tert-Butyl alcohol	4.29	59	56944m	0.492 ppbv	
18) 1,1-Dichloroethene	4.27	96	25369	0.458 ppbv	89
19) Isopropyl Alcohol	3.96	45	46769	0.447 ppbv #	91
20) Methylene Chloride	4.33	84	26647m	0.478 ppbv	
21) Allyl Chloride	4.40	41	43075	0.465 ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	25304	0.466 ppbv #	85
23) Vinyl Acetate	5.07	43	79875	0.424 ppbv #	98
24) 1,1-Dichloroethane	5.00	63	75145	0.479 ppbv #	95
25) Ethyl Acetate	5.68	43	113176	0.431 ppbv	98
26) Hexane	5.68	57	52024	0.447 ppbv	95
27) Carbon Disulfide	4.54	76	52943	0.400 ppbv #	94
28) Methyl tert-Butyl Ether	5.03	73	70346	0.418 ppbv	95
29) Chloroform	5.74	83	89055	0.480 ppbv	89
30) Cyclohexane	7.14	84	37523m	0.421 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	48296	0.428 ppbv	89
32) 1,1,1-Trichloroethane	6.51	97	74234	0.437 ppbv	97
34) 2-Butanone	5.25	43	73496	0.441 ppbv	100
35) Carbon Tetrachloride	7.02	117	76450	0.427 ppbv	88
36) Benzene	6.89	78	101942	0.461 ppbv	94
37) 1,2-Dichloroethane	6.31	62	65433	0.452 ppbv	100
38) Trichloroethene	7.85	130	37118	0.442 ppbv	88
39) 1,2-Dichloropropane	7.62	63	40136	0.441 ppbv #	82
40) 1,4-Dioxane	7.88	88	15207m	0.447 ppbv	
41) Tetrahydrofuran	6.07	42	35026m	0.402 ppbv	
42) Bromodichloromethane	7.80	83	79939	0.426 ppbv #	93
43) Methyl Methacrylate	8.03	69	37896	0.437 ppbv	96

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Manual Integrations
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Quant Time: Feb 26 06:38:20 2020
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	171753	0.432	ppbv	97
45) t-1,3-Dichloropropene	9.29	75	35202m	0.347	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	45332m	0.382	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	40886m	0.425	ppbv	
48) Dibromochloromethane	10.32	129	57733m	0.391	ppbv	
49) Bromoform	13.07	173	47706m	0.369	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	93491m	0.395	ppbv	
51) 2-Hexanone	10.17	43	67036m	0.359	ppbv	
52) Tetrachloroethene	11.25	164	34210	0.438	ppbv	94
53) Toluene	9.83	91	92883	0.390	ppbv	98
54) 1,2-Dibromoethane	10.64	107	57789	0.431	ppbv	82
56) 1,1,1,2-Tetrachloroethane	12.16	131	55558m	0.554	ppbv	
57) Chlorobenzene	12.18	112	90323	0.476	ppbv	93
58) Ethyl Benzene	12.74	91	126751	0.415	ppbv	93
59) m/p-Xylene	13.02	91	234199m	0.874	ppbv	
60) o-Xylene	13.72	91	119259	0.446	ppbv	97
61) Styrene	13.56	104	60789	0.332	ppbv	93
62) Isopropylbenzene	14.71	105	173736m	0.490	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.71	83	96702m	0.455	ppbv	
64) n-propylbenzene	15.60	120	45129m	0.502	ppbv	
65) tert-Butylbenzene	16.79	119	142938m	0.462	ppbv	
66) Benzyl Chloride	17.03	91	42156m	0.353	ppbv	
67) sec-Butylbenzene	17.33	105	208052m	0.471	ppbv	
69) p-Isopropyltoluene	17.69	119	171880	0.490	ppbv	97
70) n-Butylbenzene	18.60	91	187722	0.500	ppbv	95
71) 2-Chlorotoluene	15.49	91	130577m	0.480	ppbv	
72) 4-Ethyltoluene	15.88	105	120342	0.407	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.04	105	120220m	0.429	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	144351	0.478	ppbv #	91
75) 1,3-Dichlorobenzene	17.04	146	86928	0.491	ppbv	97
76) 1,4-Dichlorobenzene	17.18	146	86322m	0.494	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	82979	0.486	ppbv	97
78) Hexachloro-1,3-Butadiene	23.42	225	77519m	0.555	ppbv	
79) Naphthalene	22.27	128	109293m	0.476	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	31022	0.641	ppbv	93
81) 1,2,4-Trichlorobenzene	22.00	180	75032m	0.535	ppbv	

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

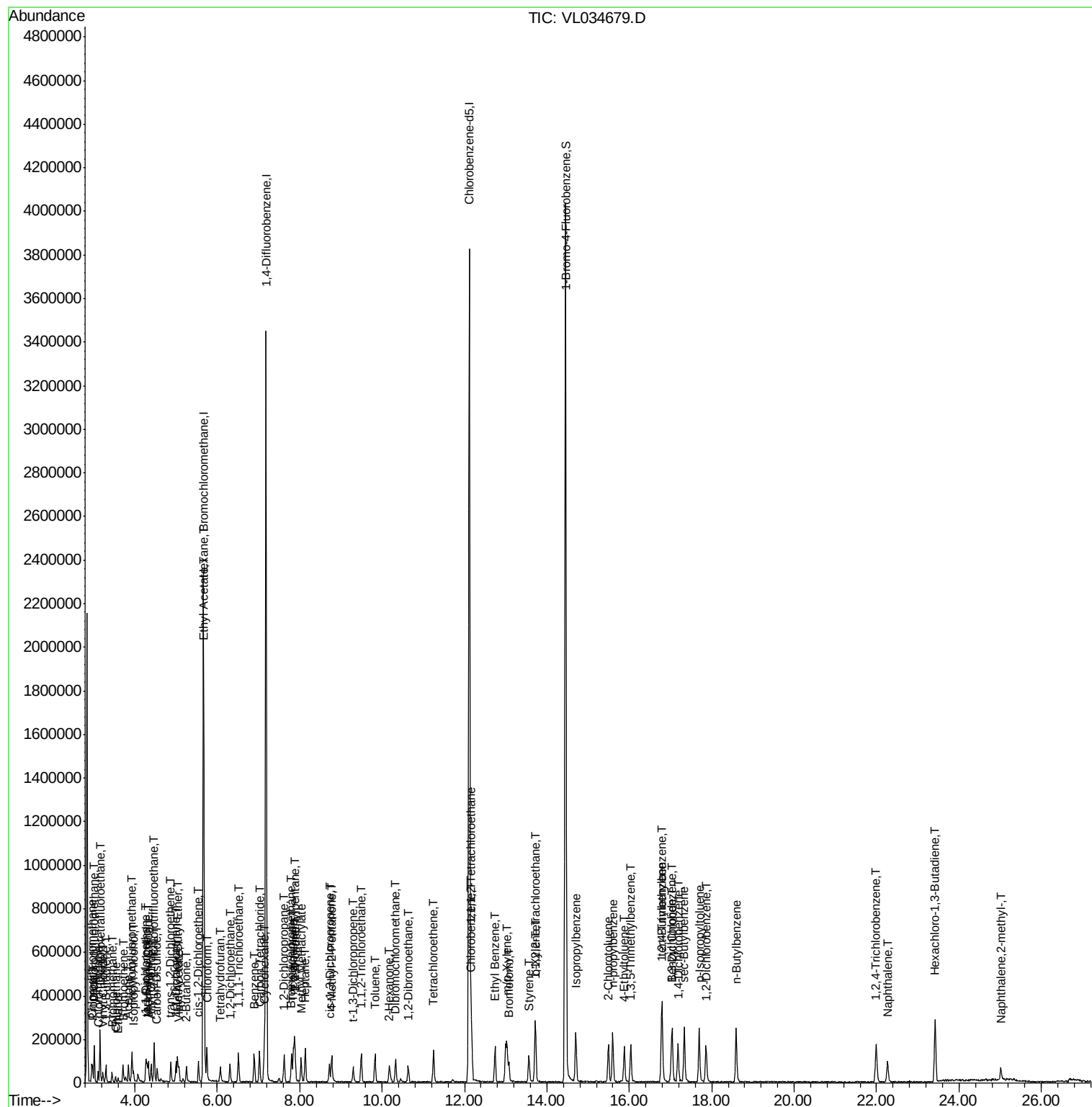
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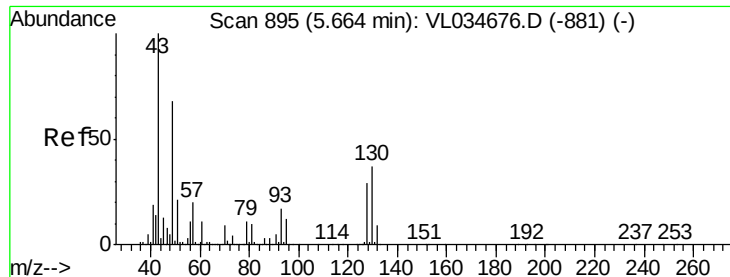
Instrument :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 26 03:37:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1121067

Ion Ratio Lower Upper

49 100

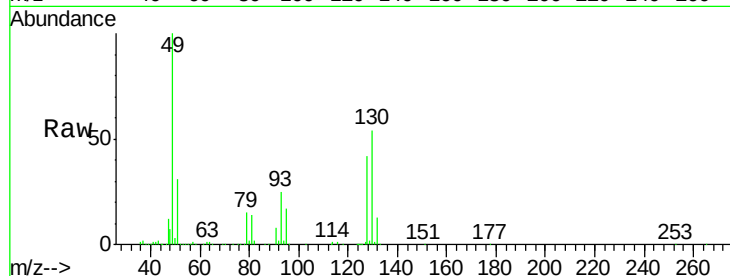
128 43.5 21.6 65.0

130 55.7 27.7 83.1

Manual Integrations
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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

5.66

600000

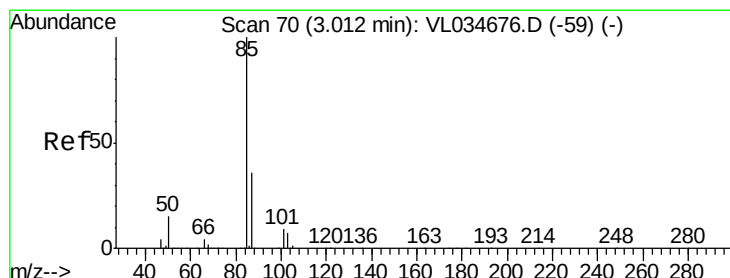
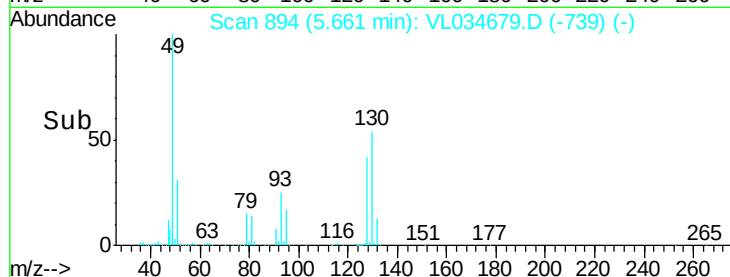
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.624 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034679.D

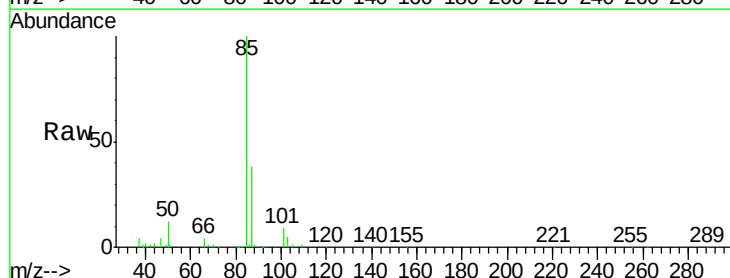
Acq: 26 Feb 2020 4:23

Tgt Ion: 85 Resp: 108141

Ion Ratio Lower Upper

85 100

87 37.8 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

100000

80000

60000

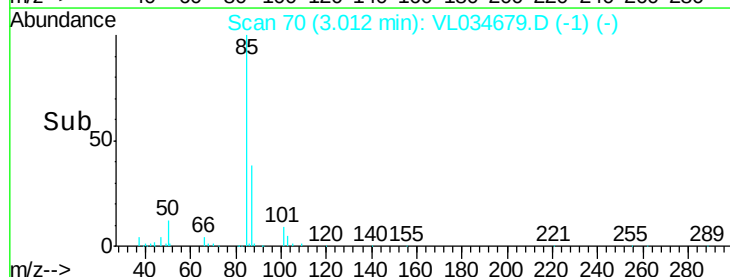
40000

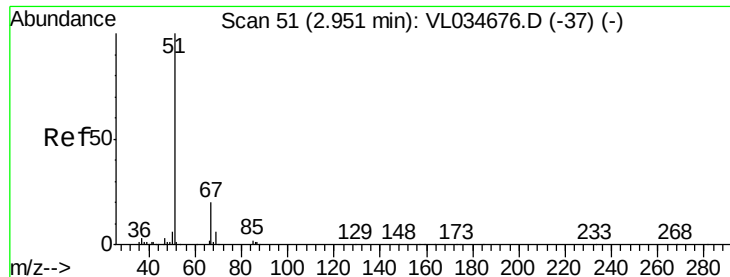
20000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.472 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Tot Ion: 51 Resp: 64073

Ion Ratio Lower Upper

51 100

67 20.8 15.5 23.3

Instrument :

MSVOA_L

ClientSampleId :

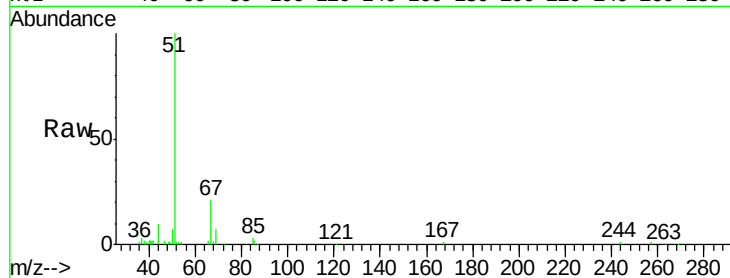
VSTDIC0.5

Manual Integrations

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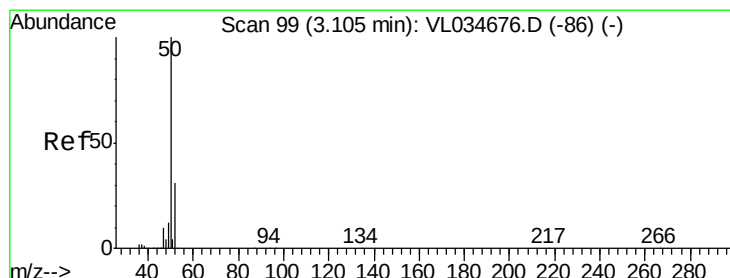
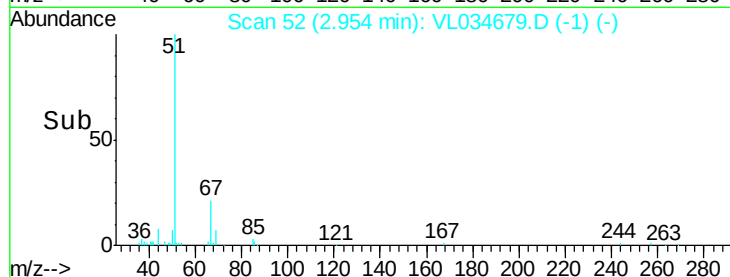
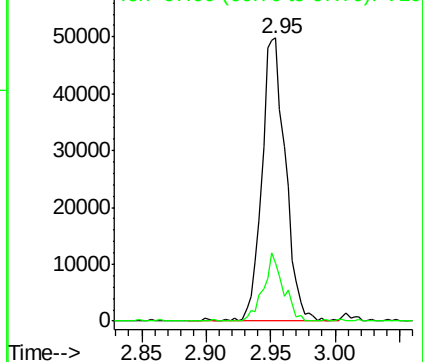
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.413 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.00 min

Lab File: VL034679.D

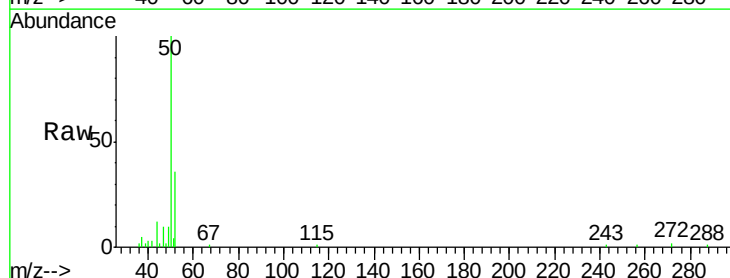
Acq: 26 Feb 2020 4:23

Tgt Ion: 50 Resp: 33739

Ion Ratio Lower Upper

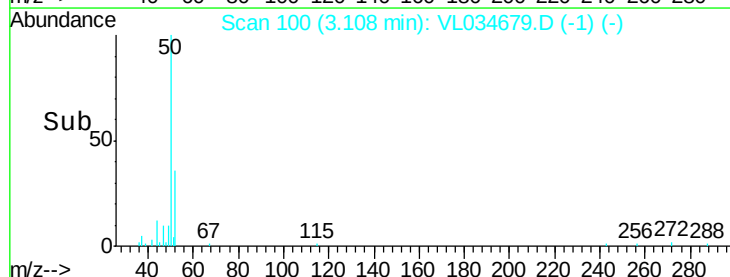
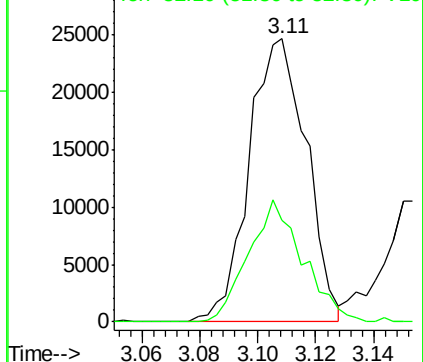
50 100

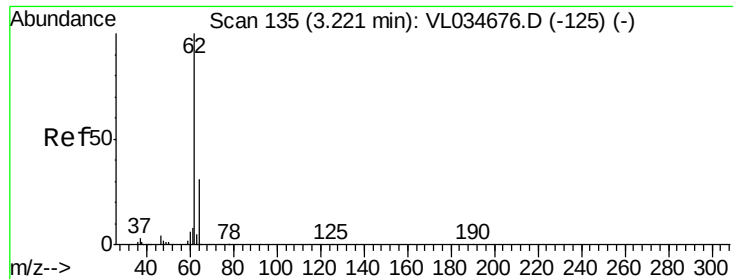
52 35.7 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.433 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 32879

Ion Ratio Lower Upper

62 100

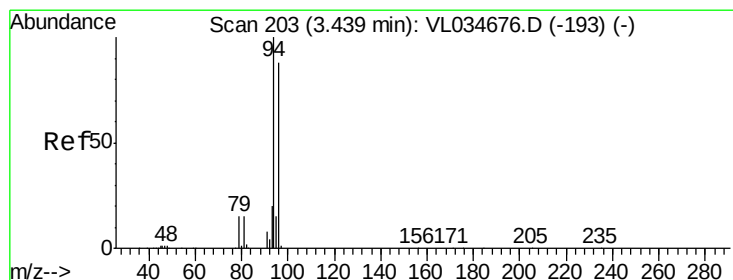
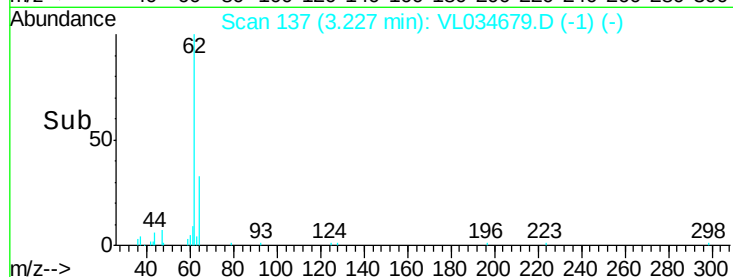
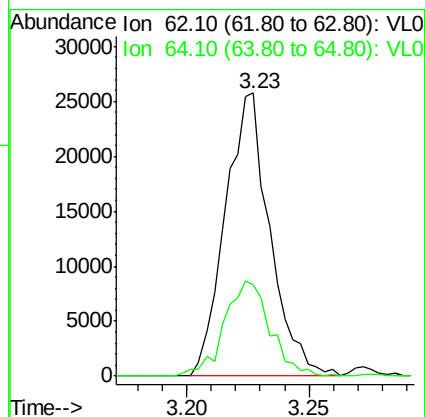
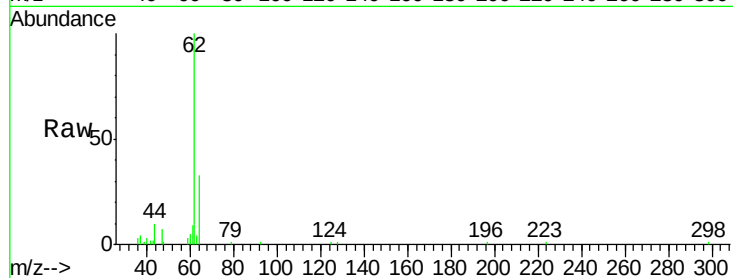
64 32.5 24.7 37.1

Manual Integrations

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#6

Bromomethane

Concen: 0.518 ppbv

RT: 3.44 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL034679.D

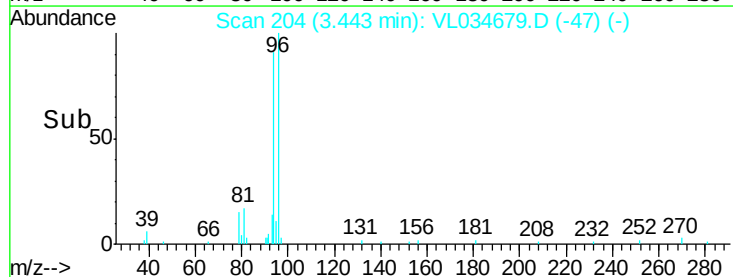
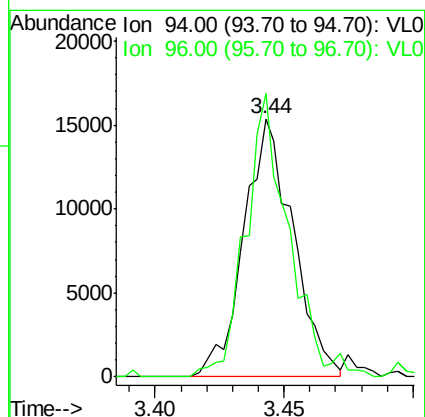
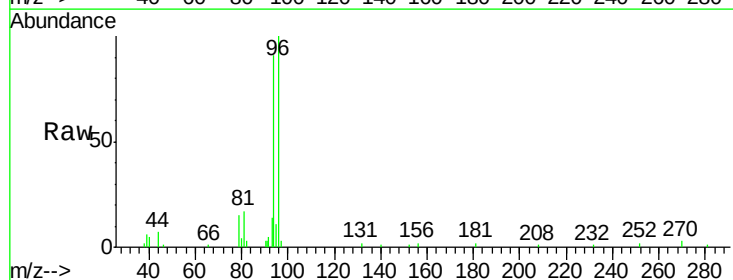
Acq: 26 Feb 2020 4:23

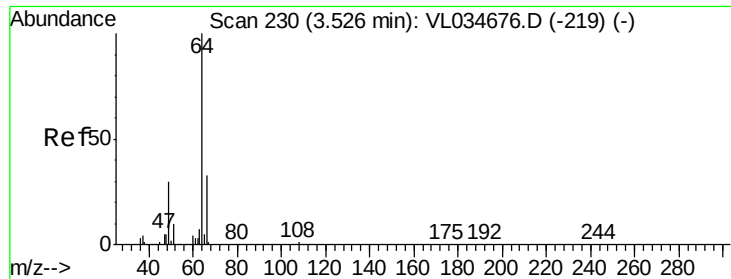
Tgt Ion: 94 Resp: 20534

Ion Ratio Lower Upper

94 100

96 109.7 70.5 105.7#





#7

Chloroethane

Concen: 0.484 ppbv

RT: 3.53 min Scan# 231

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 13510

Ion Ratio Lower Upper

64 100

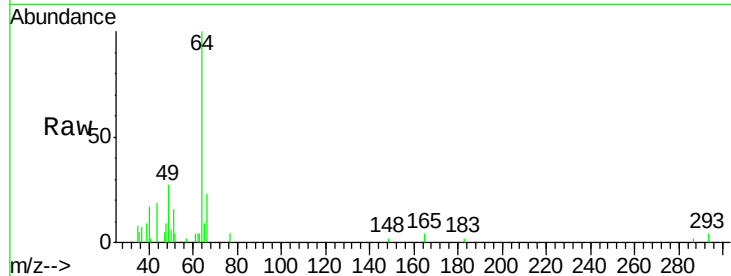
66 22.9 26.7 40.1#

Manual Integrations

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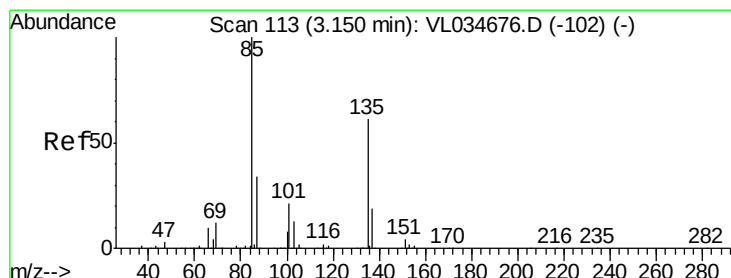
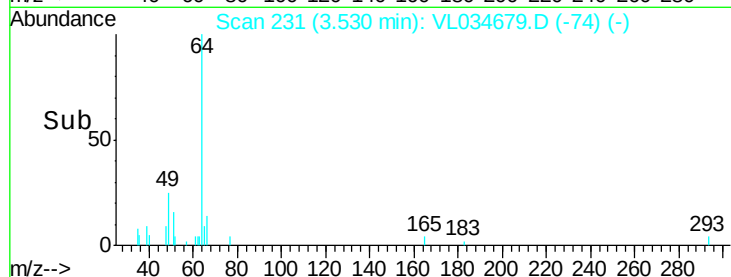
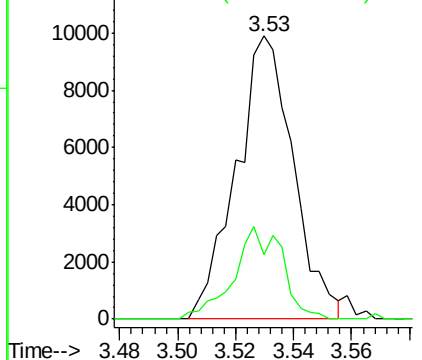
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.494 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL034679.D

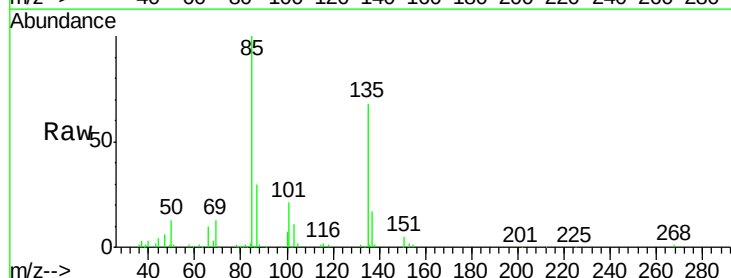
Acq: 26 Feb 2020 4:23

Tgt Ion: 85 Resp: 85950

Ion Ratio Lower Upper

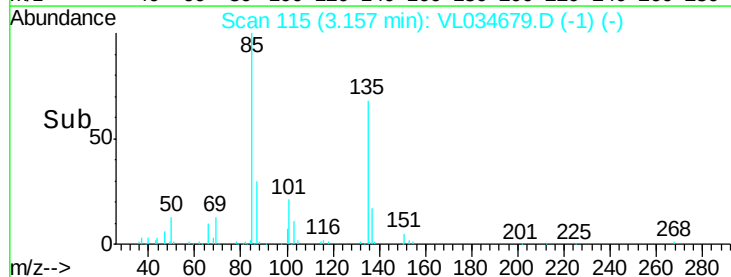
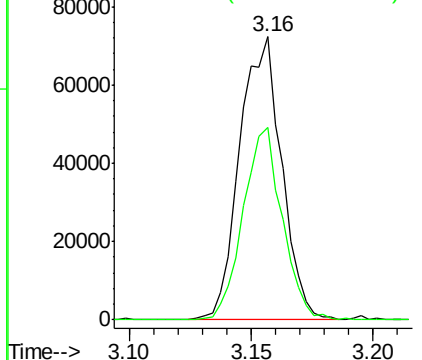
85 100

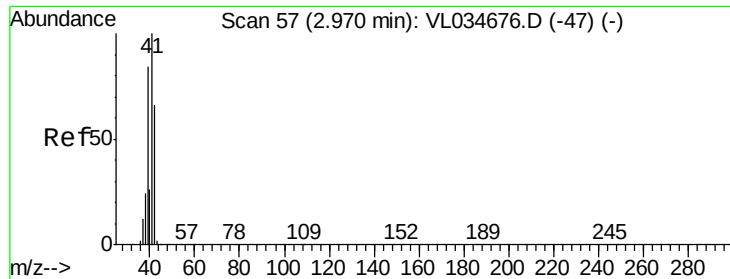
135 63.4 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.473 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 25958

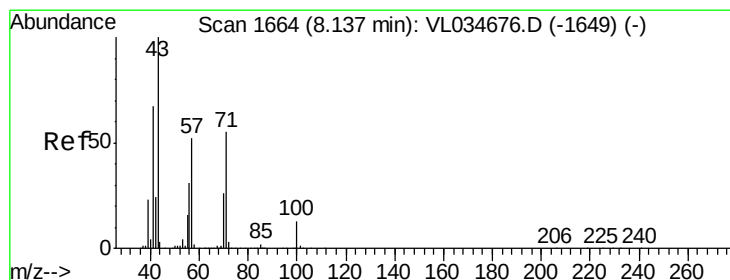
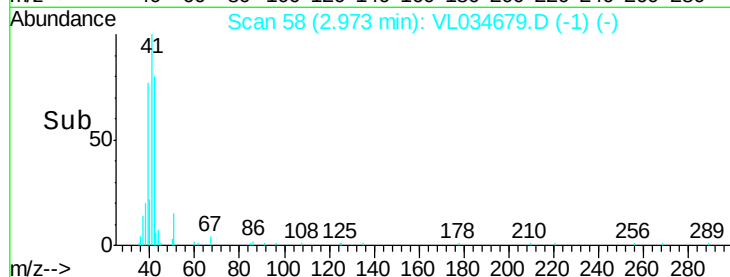
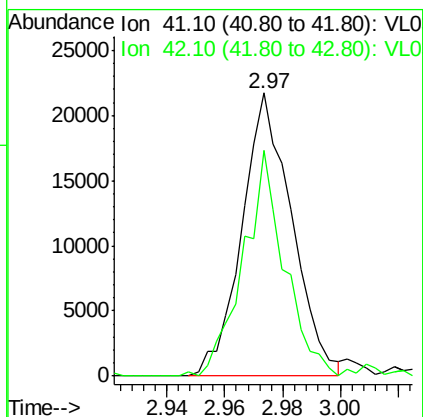
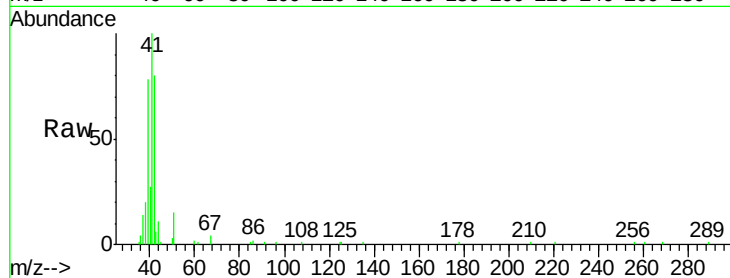
Ion Ratio Lower Upper

41 100

42 68.6 54.9 82.3

Manual Integrations
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#10

Heptane

Concen: 0.410 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.01 min

Lab File: VL034679.D

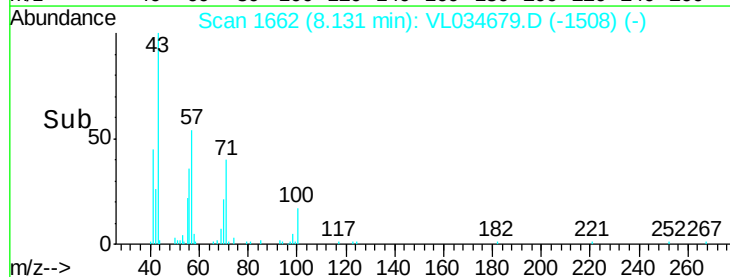
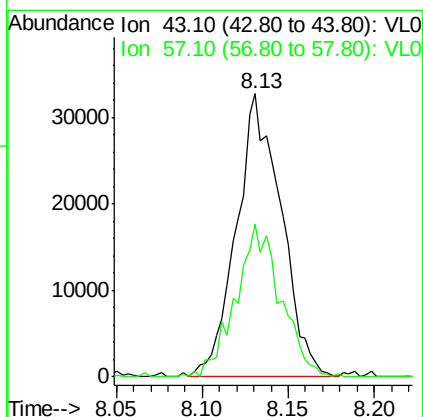
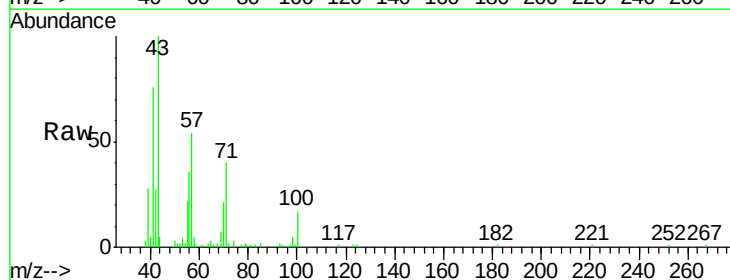
Acq: 26 Feb 2020 4:23

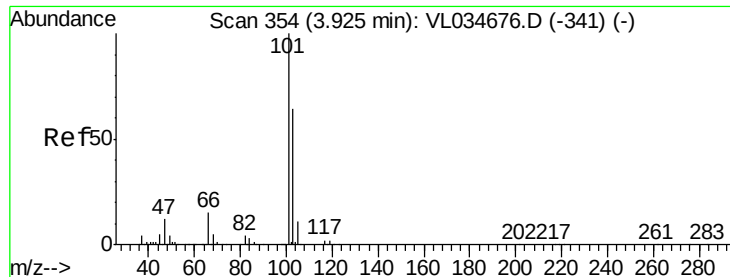
Tgt Ion: 43 Resp: 59201

Ion Ratio Lower Upper

43 100

57 53.9 41.0 61.6





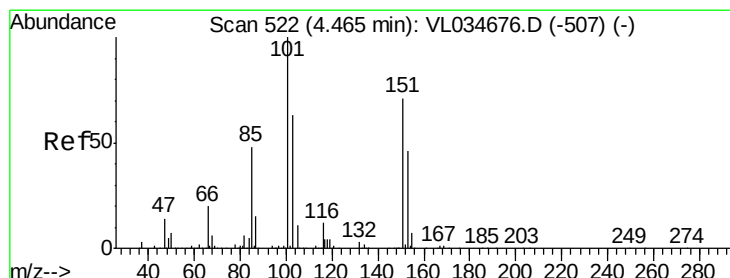
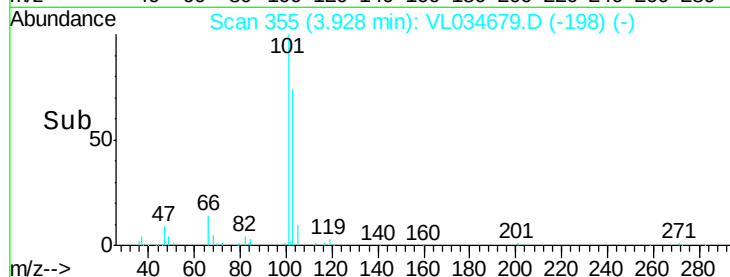
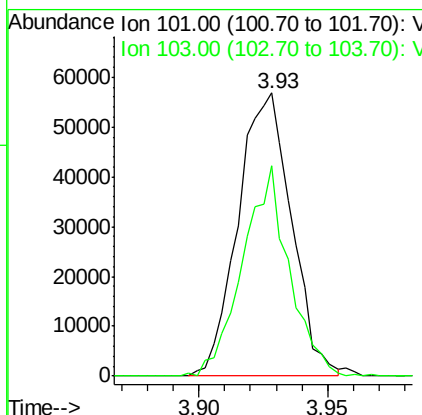
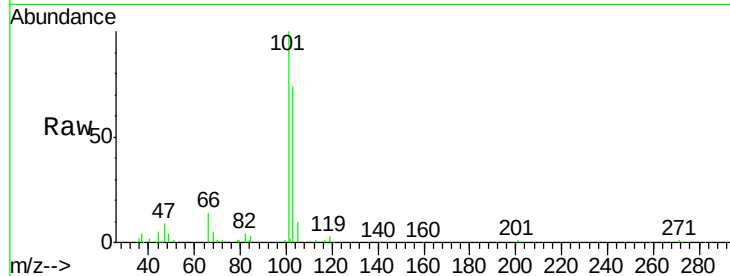
#11
 Trichlorofluoromethane
 Concen: 0.468 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. 0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	73.2	51.2	76.8

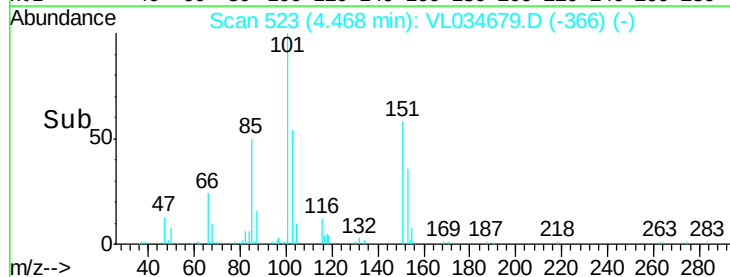
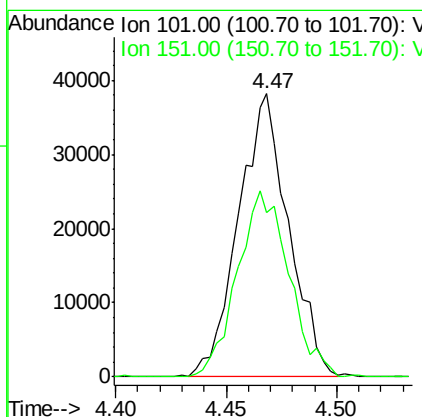
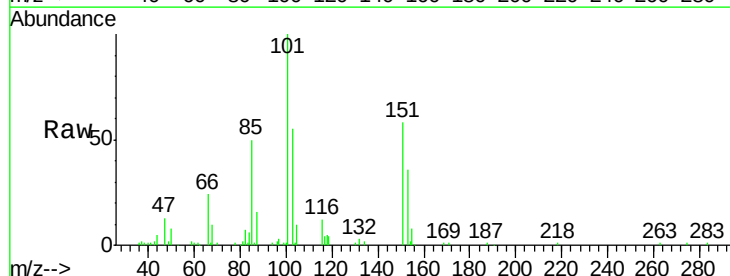
Manual Integrations
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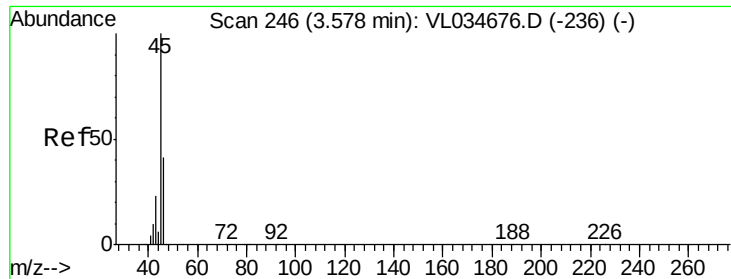
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.496 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. 0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
101	100		
151	68.1	55.8	83.6





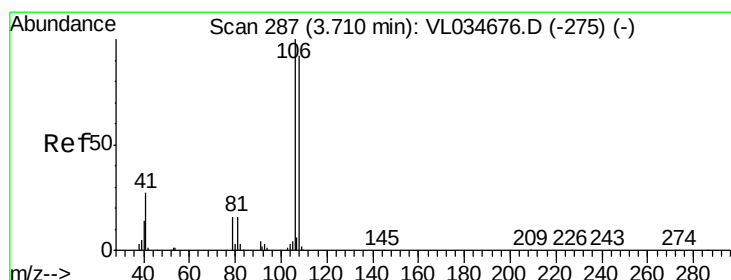
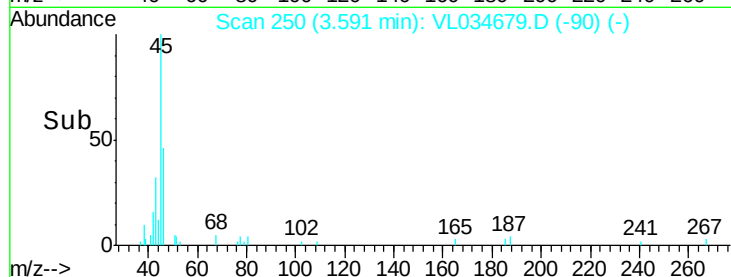
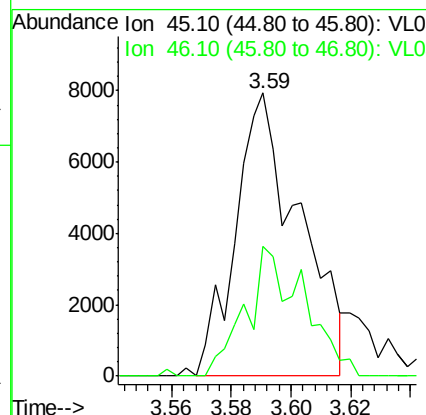
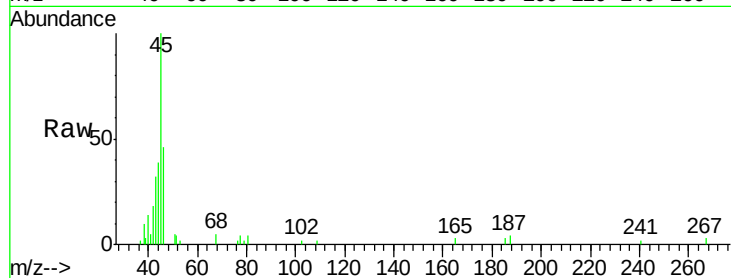
#13
Ethanol
Concen: 0.699 ppbv m
RT: 3.59 min Scan# 250
Delta R.T. 0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 11820
Ion Ratio Lower Upper
45 100
46 41.4 15.4 61.4

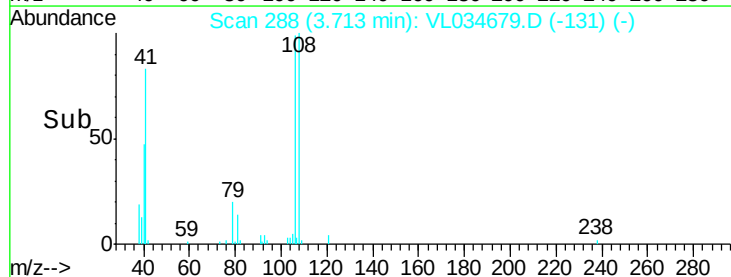
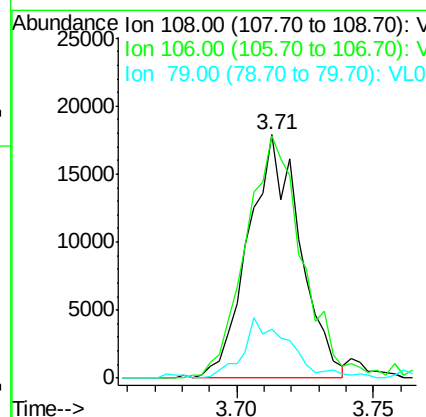
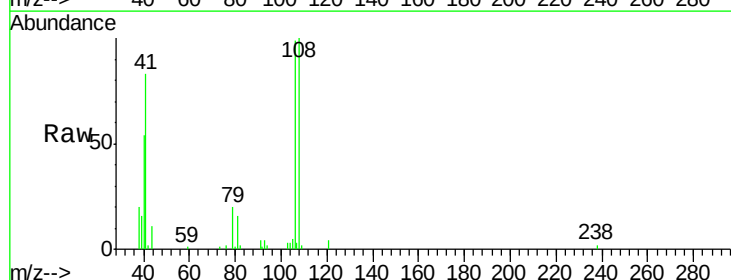
Manual Integrations
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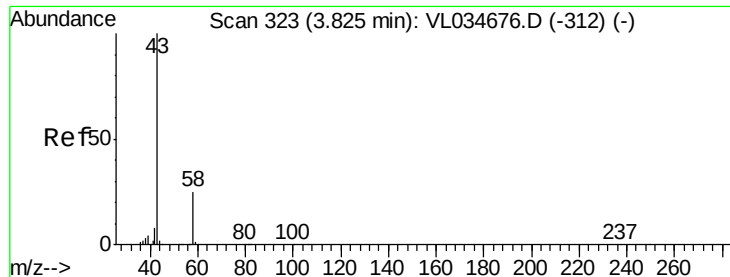
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#14
Bromoethene
Concen: 0.470 ppbv
RT: 3.71 min Scan# 288
Delta R.T. 0.00 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion: 108 Resp: 23519
Ion Ratio Lower Upper
108 100
106 110.4 86.7 130.1
79 24.4 15.0 22.6#





#15

Acetone

Concen: 0.463 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 70409

Ion Ratio Lower Upper

43 100

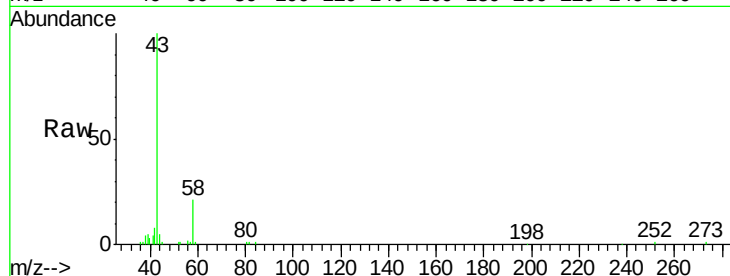
58 29.4 21.4 32.0

Manual Integrations

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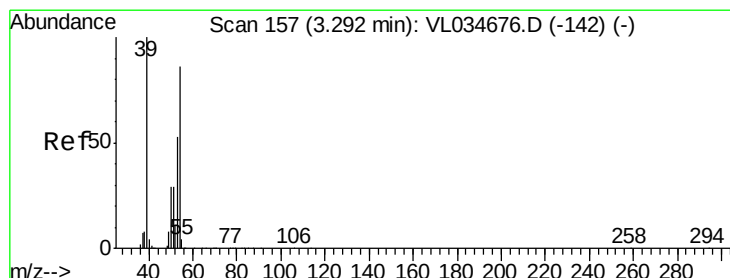
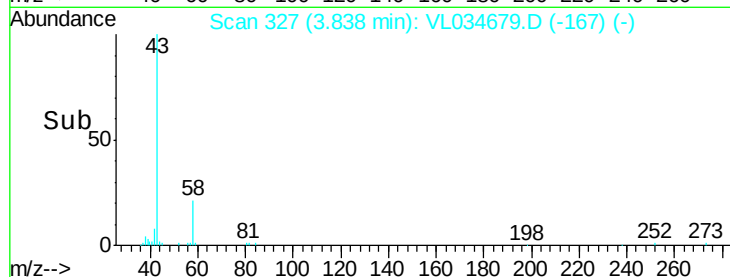
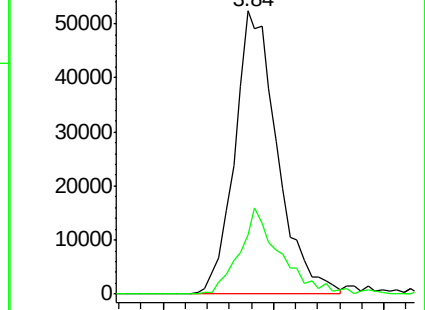
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.470 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034679.D

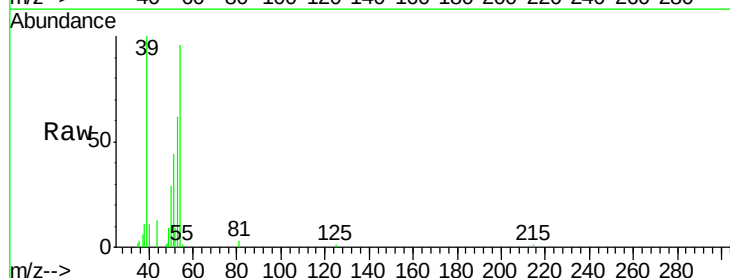
Acq: 26 Feb 2020 4:23

Tgt Ion: 39 Resp: 30439

Ion Ratio Lower Upper

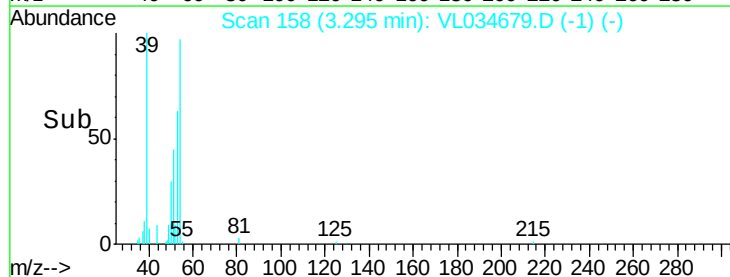
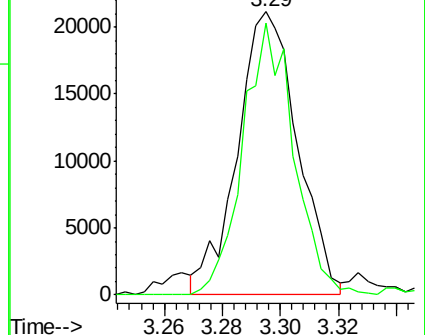
39 100

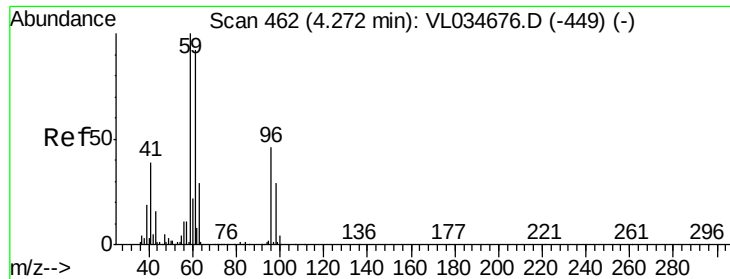
54 81.6 67.0 100.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.492 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.02 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 59 Resp: 56944

Ion Ratio Lower Upper

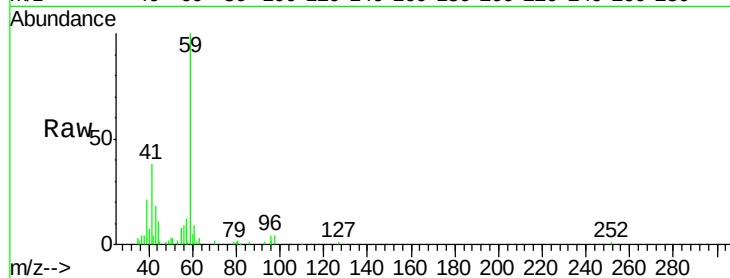
59 100

57 0.0 8.8 13.2#

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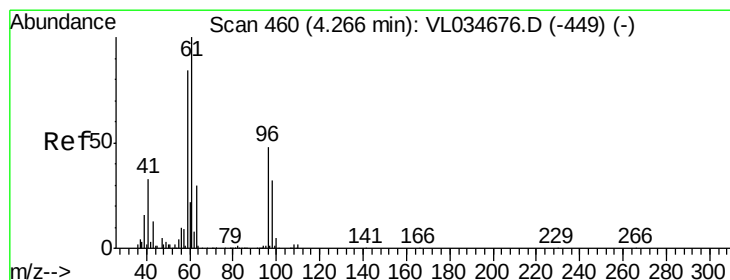
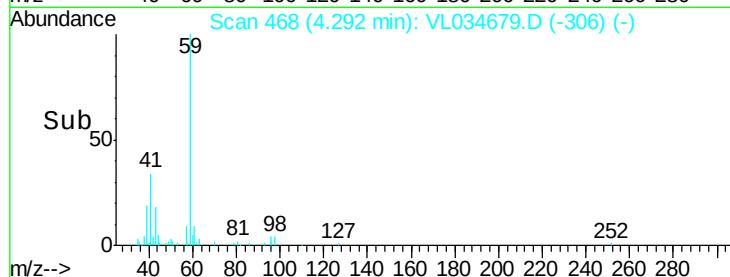
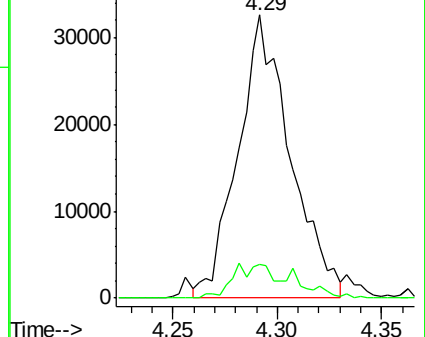
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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.458 ppbv

RT: 4.27 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

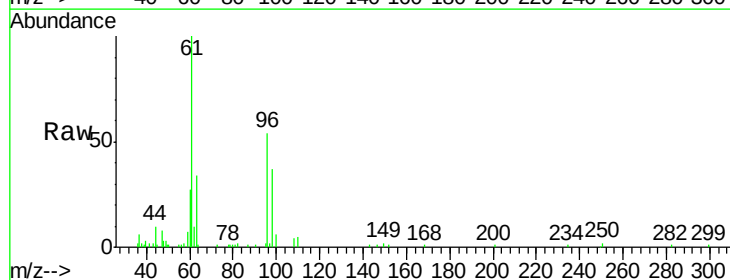
Tgt Ion: 96 Resp: 25369

Ion Ratio Lower Upper

96 100

61 184.9 165.1 247.7

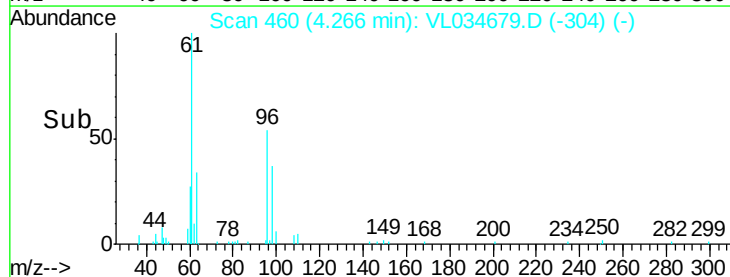
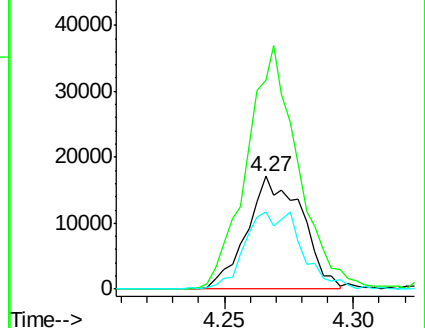
98 67.8 52.7 79.1

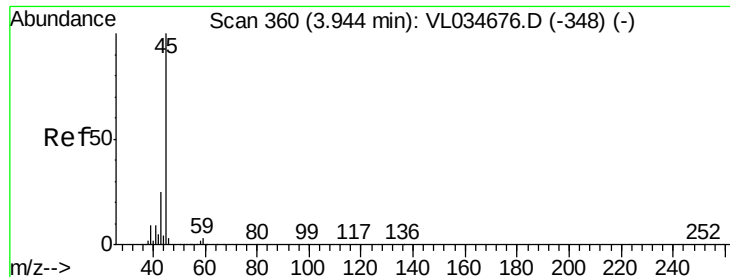


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.447 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 46769

Ion Ratio Lower Upper

45 100

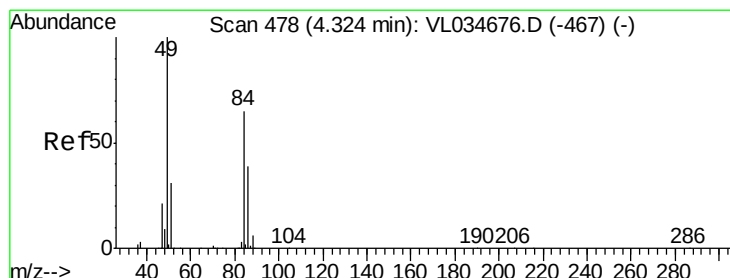
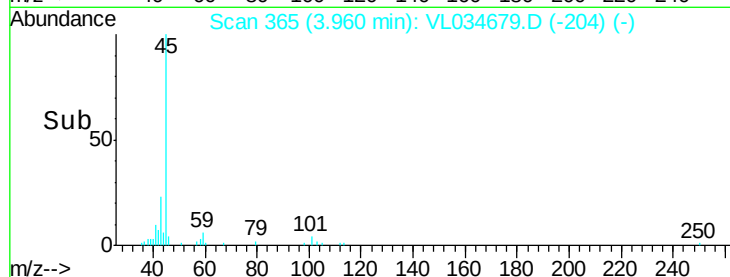
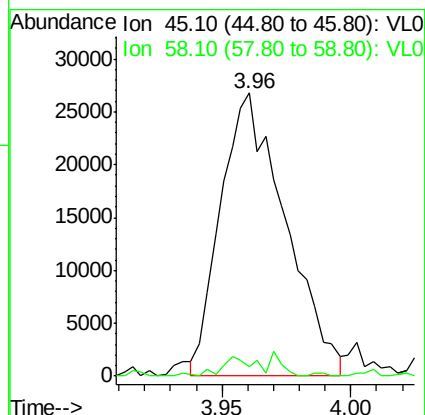
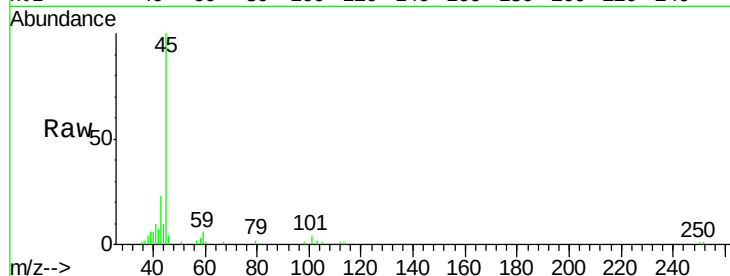
58 5.3 1.8 2.6#

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#20

Methylene Chloride

Concen: 0.478 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Tgt Ion: 84 Resp: 26647

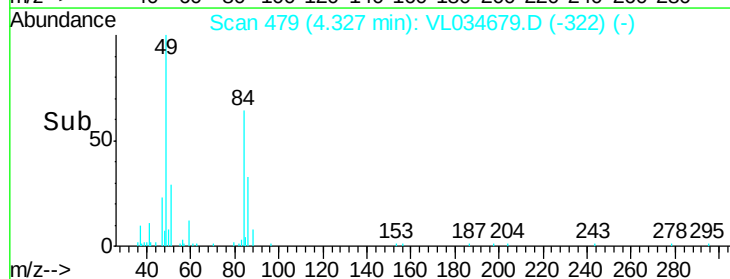
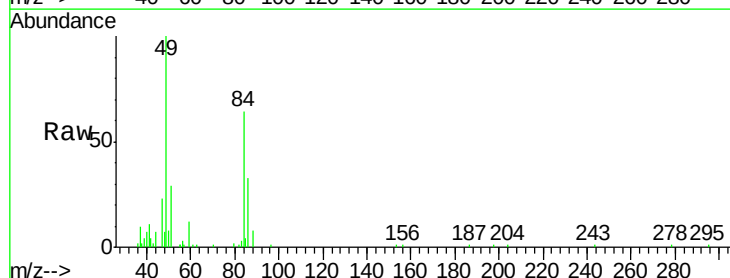
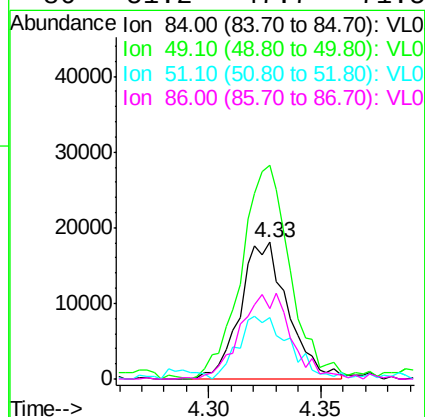
Ion Ratio Lower Upper

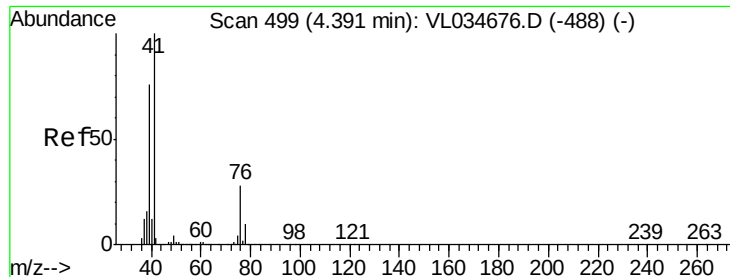
84 100

49 156.0 122.8 184.2

51 44.8 38.6 58.0

86 51.2 47.7 71.5





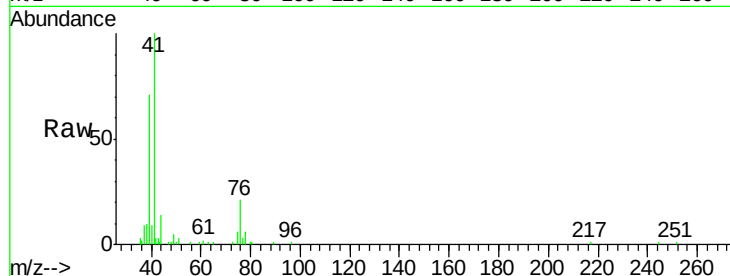
#21
Allvl Chloride
Concen: 0.465 ppbv
RT: 4.40 min Scan# 501
Delta R.T. 0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

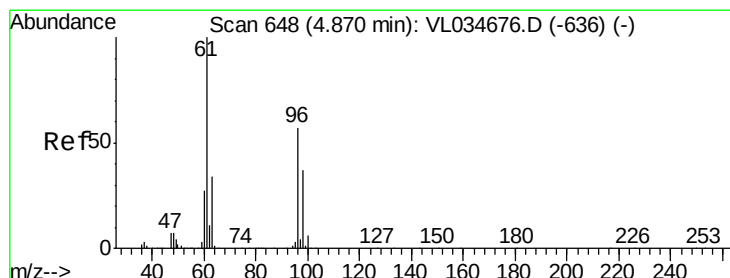
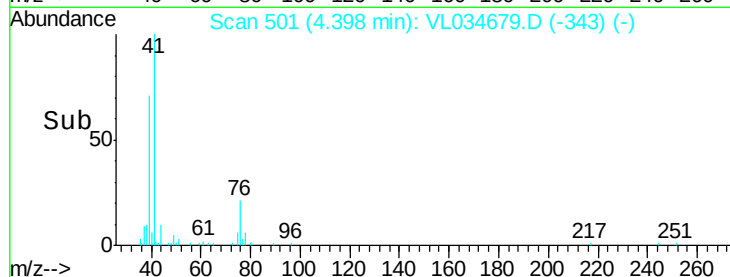
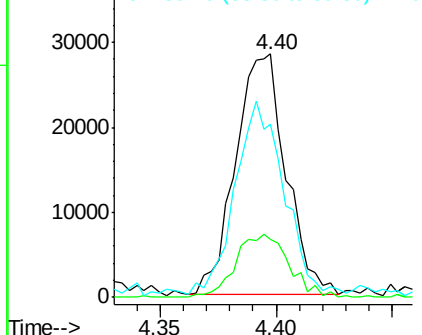
Tot Ion	Ratio	Lower	Upper
41	100		
76	27.8	22.8	34.2
39	81.8	61.7	92.5

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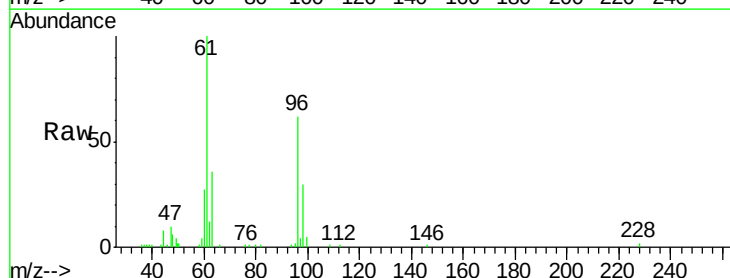


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

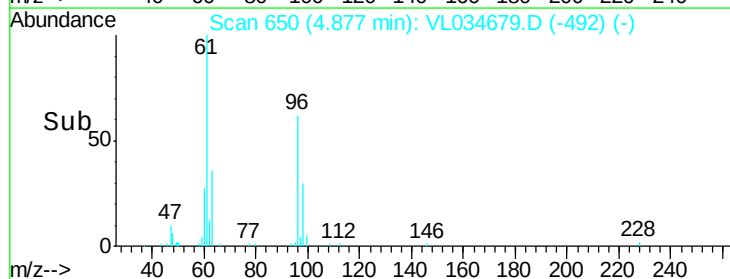
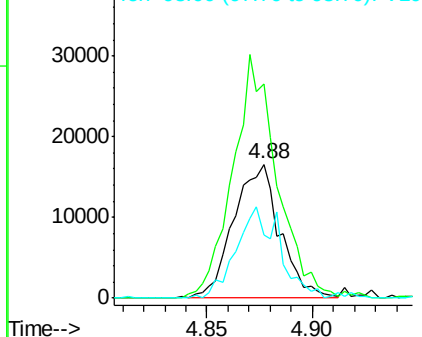


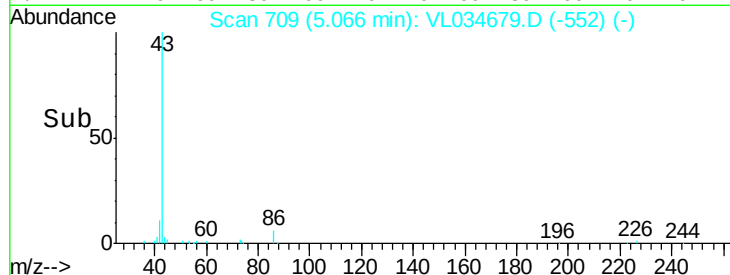
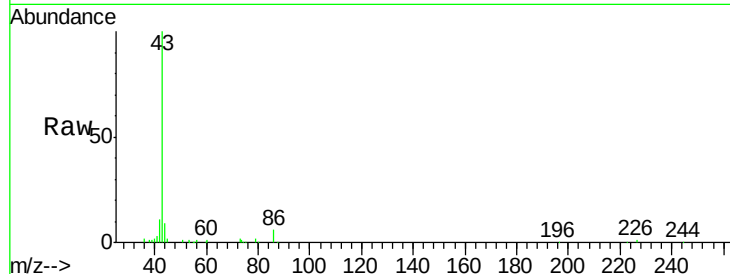
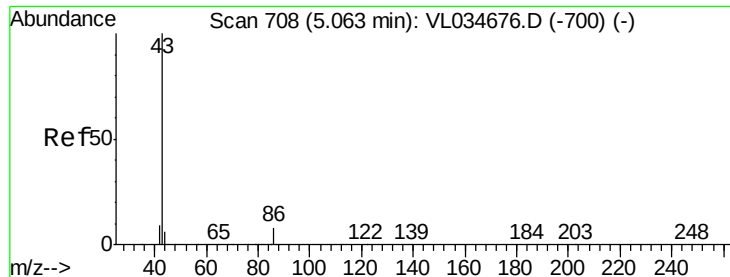
#22
trans-1,2-Dichloroethene
Concen: 0.466 ppbv
RT: 4.88 min Scan# 650
Delta R.T. 0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.1	139.4	209.0
98	47.4	51.3	76.9#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.424 ppbv

RT: 5.07 min Scan# 709

Delta R.T. 0.00 min

Lab File: VL034679.D

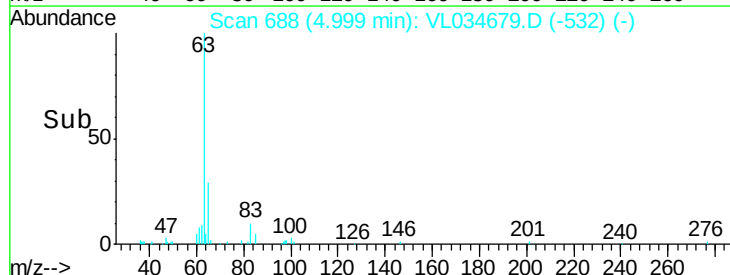
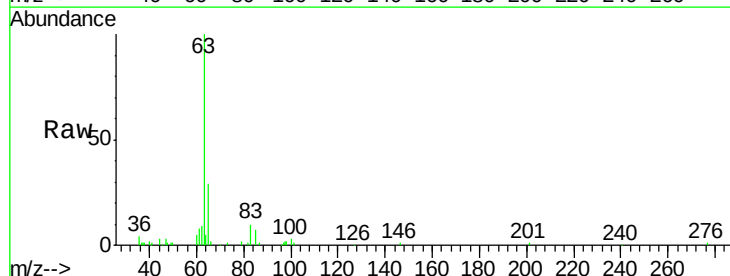
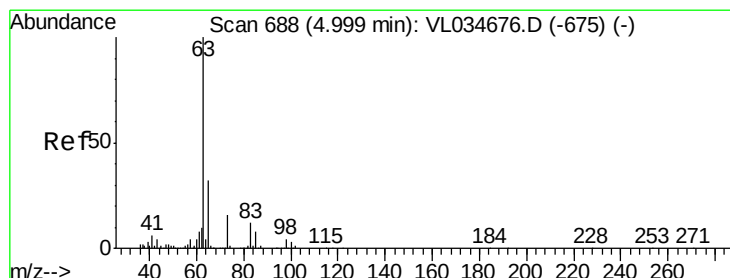
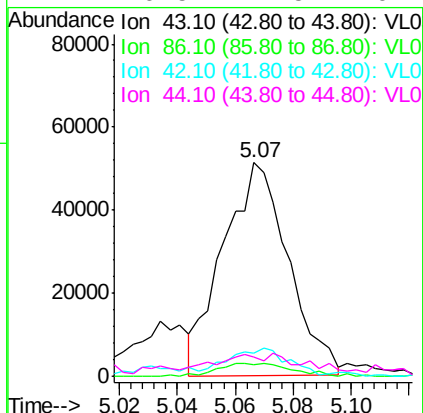
Acq: 26 Feb 2020 4:23

Tot Ion	43	Resp	79875
Ion Ratio	Lower	Upper	
43	100		
86	5.7	6.0	9.0#
42	9.8	8.0	12.0
44	6.5	4.5	6.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

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#24

1,1-Dichloroethane

Concen: 0.479 ppbv

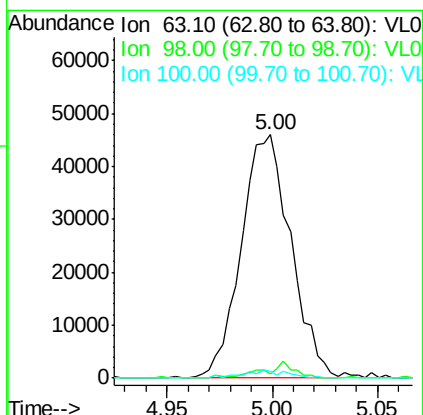
RT: 5.00 min Scan# 688

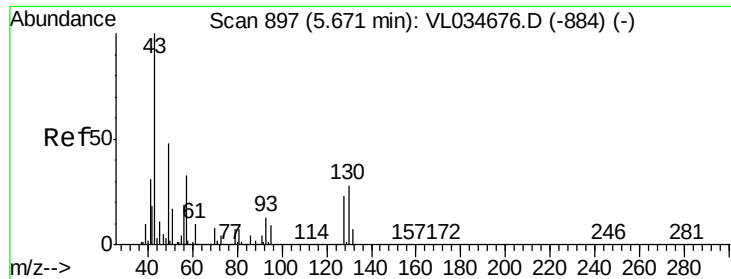
Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Tgt Ion	63	Resp	75145
Ion Ratio	Lower	Upper	
63	100		
98	1.6	2.1	6.2#
100	2.6	1.4	4.0





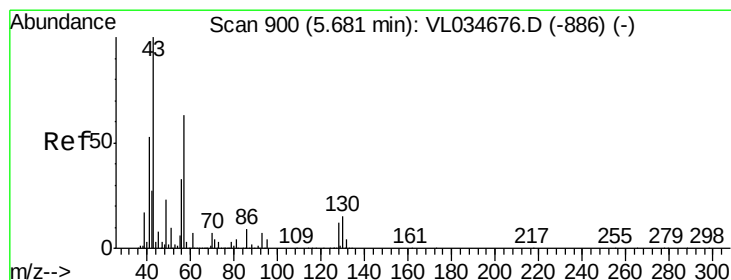
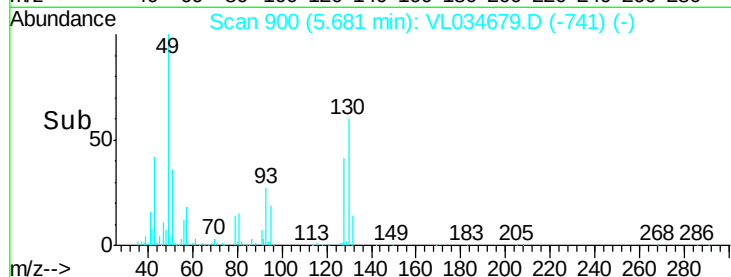
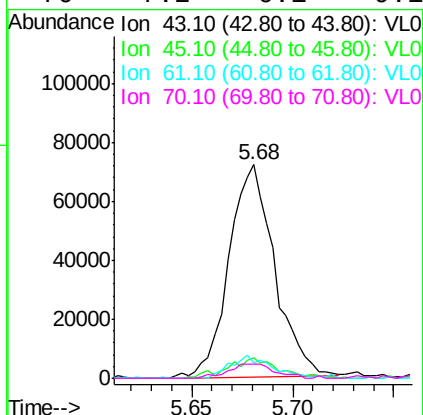
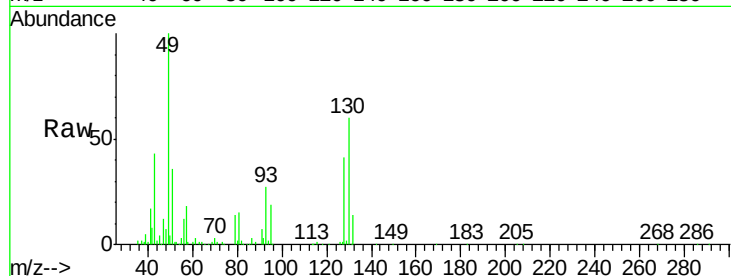
#25
Ethyl Acetate
Concen: 0.431 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	43	Resp	113176
Ion	Ratio	Lower	Upper
43	100		
45	10.8	8.2	12.4
61	10.4	7.8	11.6
70	7.2	6.1	9.1

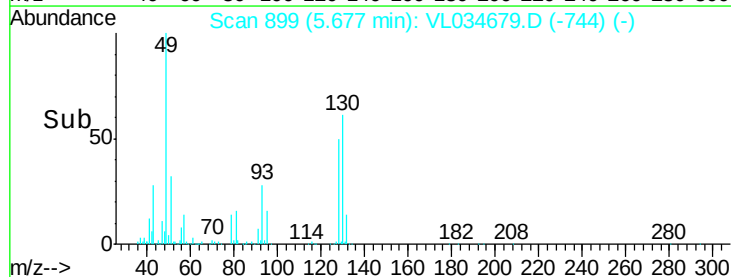
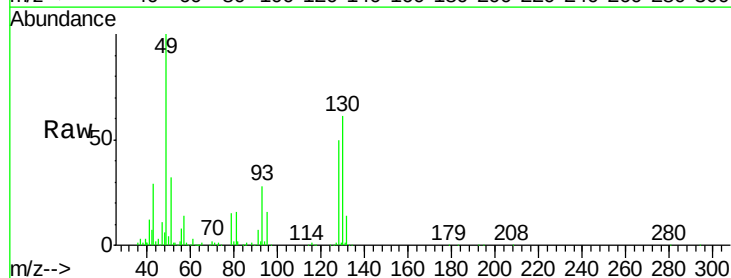
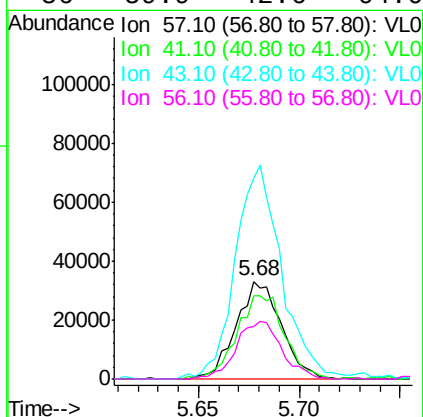
Manual Integrations
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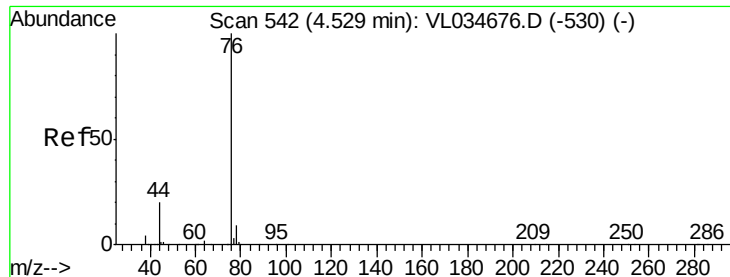
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#26
Hexane
Concen: 0.447 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion	57	Resp	52024
Ion	Ratio	Lower	Upper
57	100		
41	92.1	70.3	105.5
43	227.1	177.0	265.4
56	59.9	42.6	64.0





#27

Carbon Disulfide

Concen: 0.400 ppbv

RT: 4.54 min Scan# 544

Delta R.T. 0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

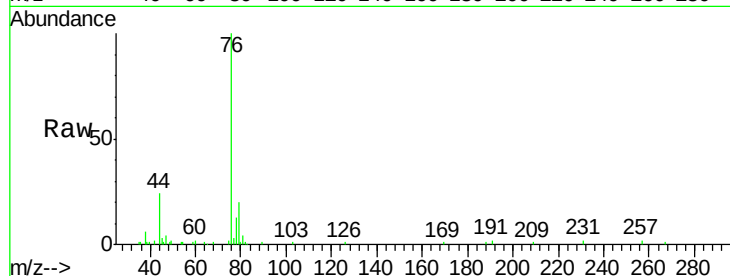
ClientSampleId :

VSTDIC0.5

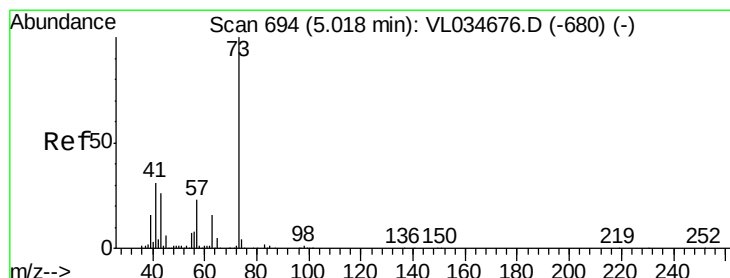
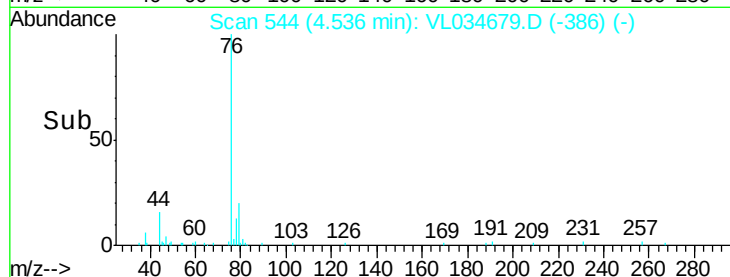
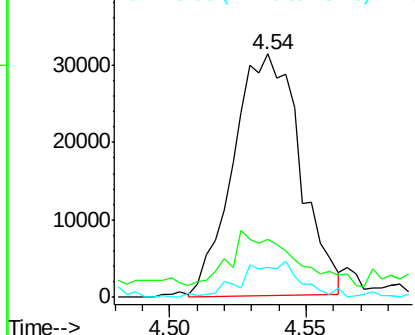
Tot Ion:	76	Resp:	52943
Ion	Ratio	Lower	Upper
76	100		
44	20.5	15.3	22.9
78	13.6	7.6	11.4#

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



#28

Methyl tert-Butyl Ether

Concen: 0.418 ppbv

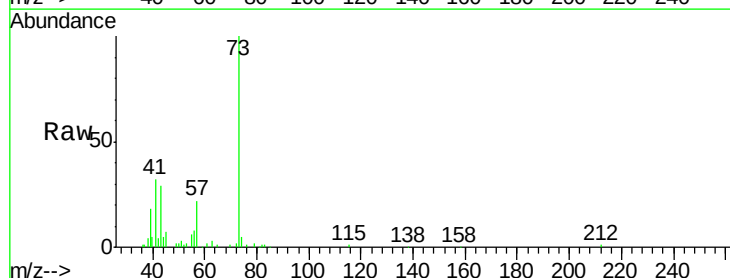
RT: 5.03 min Scan# 699

Delta R.T. 0.02 min

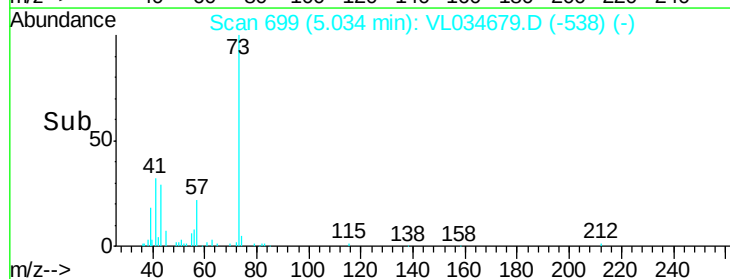
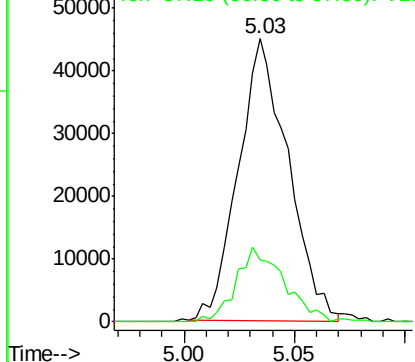
Lab File: VL034679.D

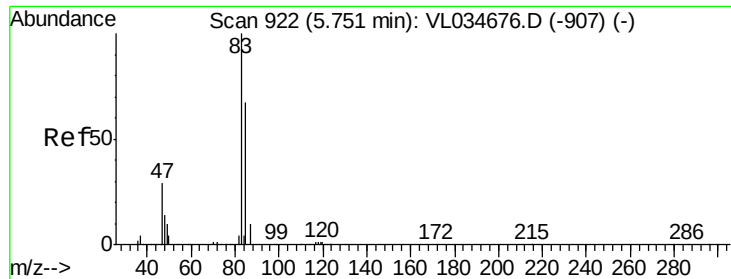
Acq: 26 Feb 2020 4:23

Tgt Ion:	73	Resp:	70346
Ion	Ratio	Lower	Upper
73	100		
57	25.8	18.6	28.0



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





#29

Chloroform

Concen: 0.480 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 89055

Ion Ratio Lower Upper

83 100

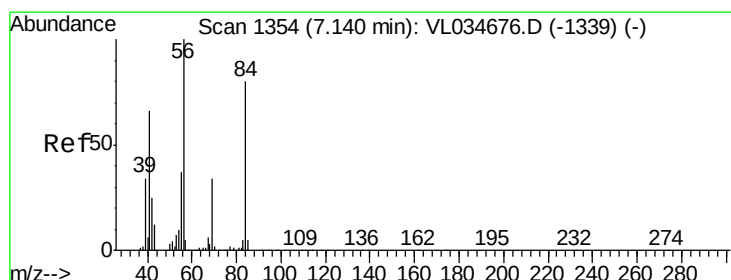
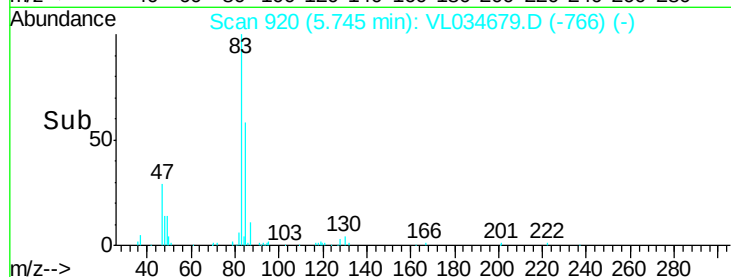
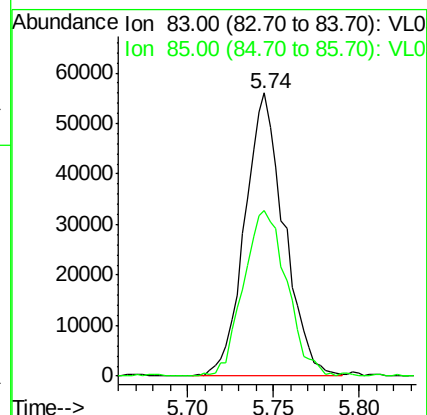
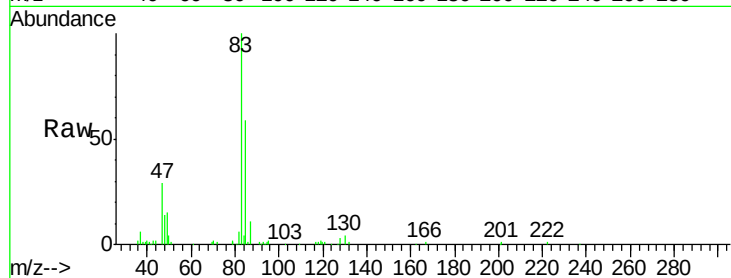
85 58.6 53.9 80.9

Manual Integrations

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#30

Cyclohexane

Concen: 0.421 ppbv m

RT: 7.14 min Scan# 1353

Delta R.T. -0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

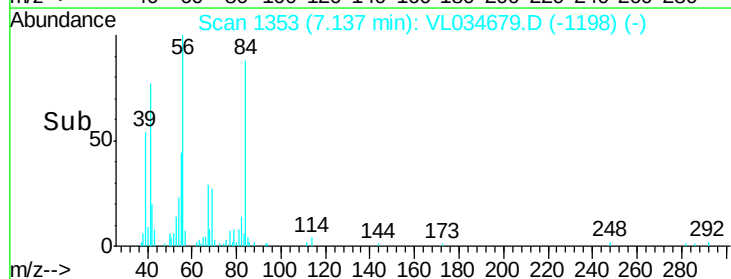
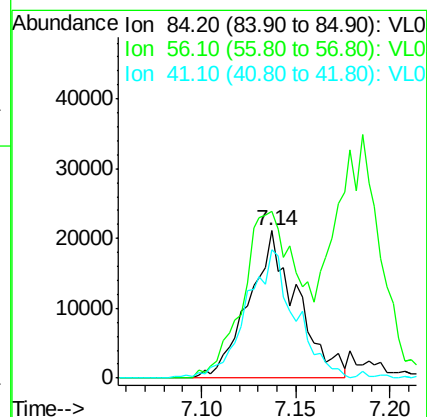
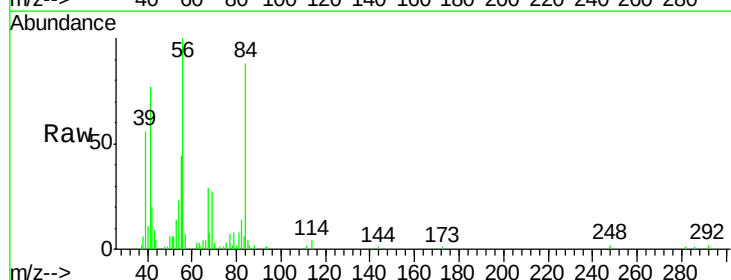
Tgt Ion: 84 Resp: 37523

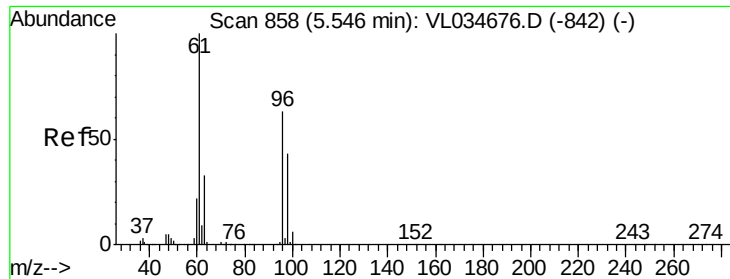
Ion Ratio Lower Upper

84 100

56 123.5 113.4 170.2

41 88.8 68.2 102.4





#31

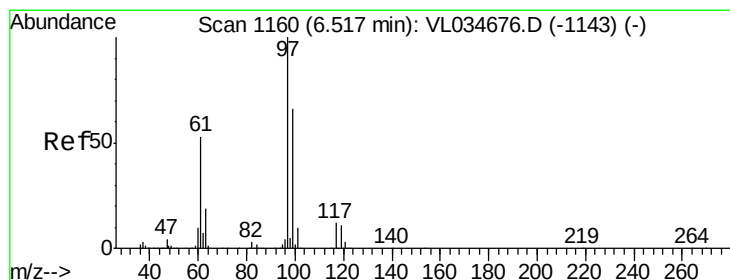
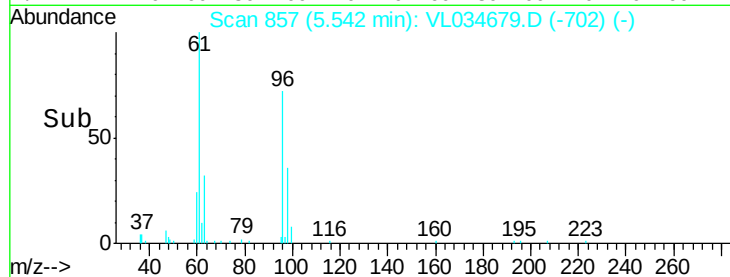
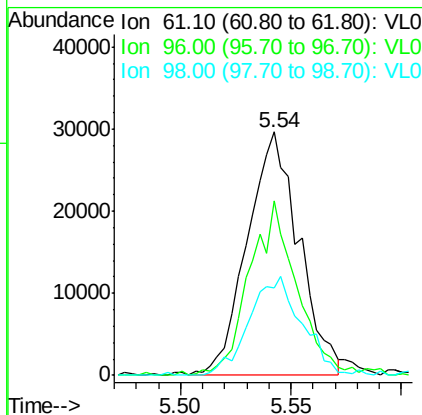
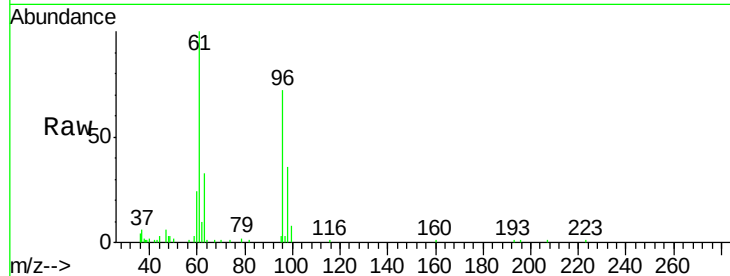
cis-1,2-Dichloroethene
 Concen: 0.428 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	71.7	50.2	75.2
98	35.7	34.3	51.5

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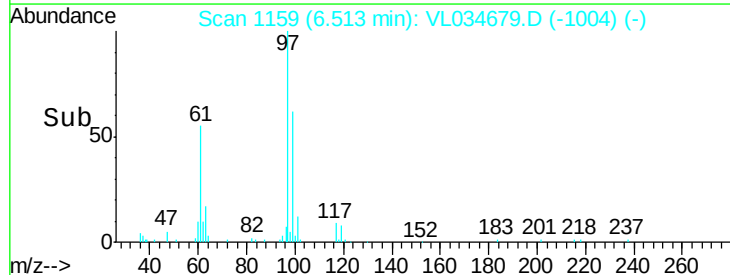
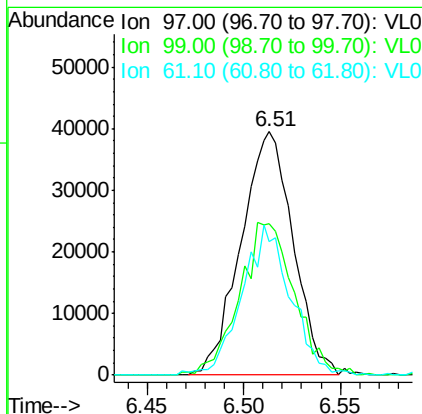
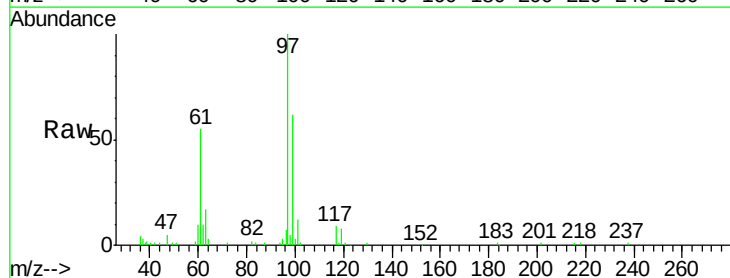
MMDadoda
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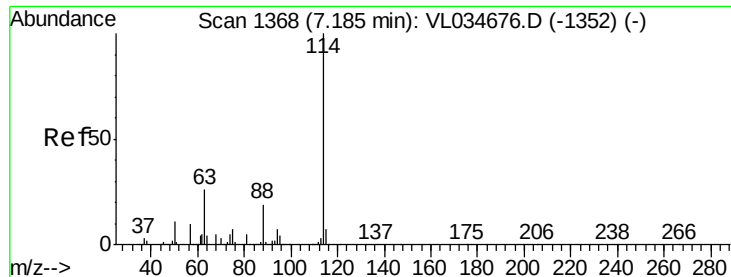


#32

1,1,1-Trichloroethane
 Concen: 0.437 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. -0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.0	52.3	78.5
61	58.0	42.8	64.2





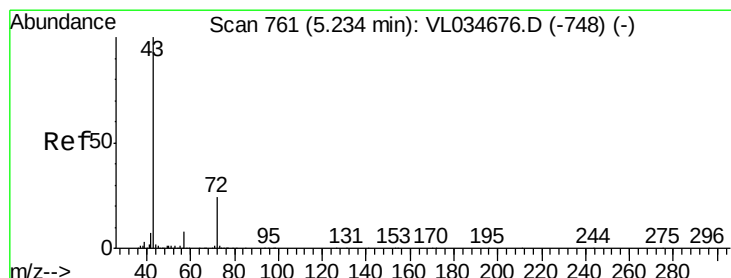
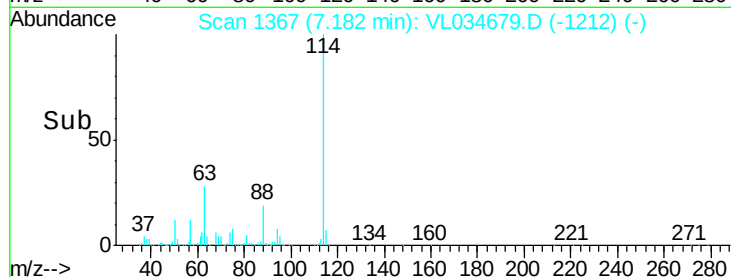
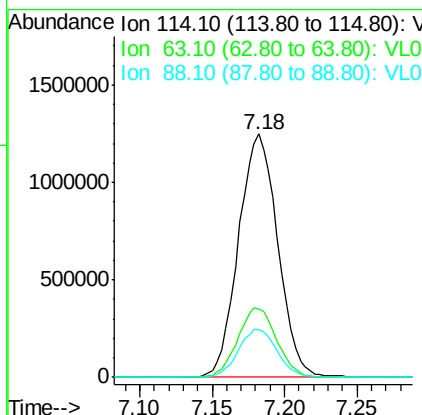
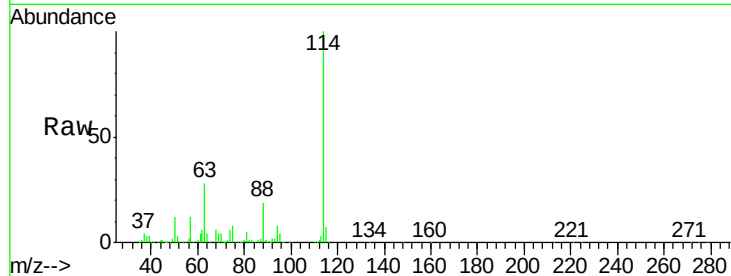
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.3	22.9	34.3
88	19.6	15.8	23.6

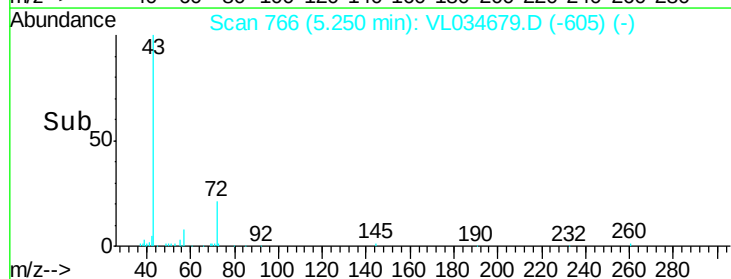
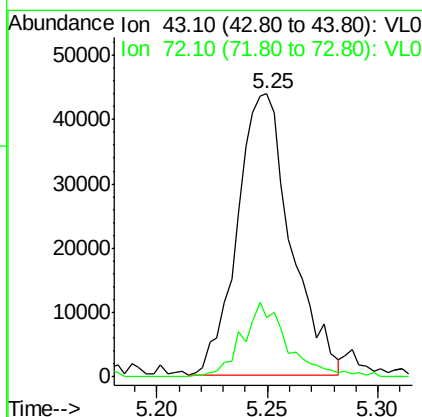
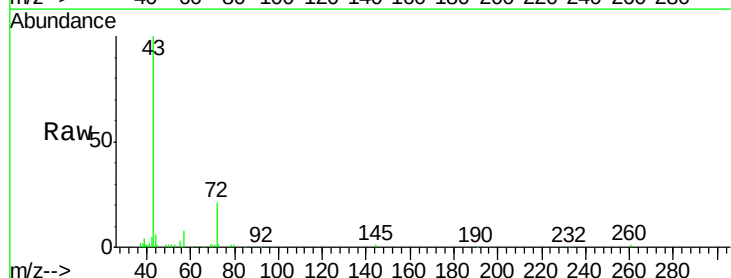
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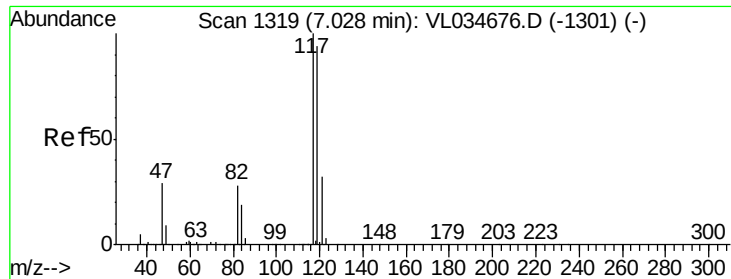
MMDadoda
 2/27/2020 5:19:24 PM



#34
 2-Butanone
 Concen: 0.441 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2





#35

Carbon Tetrachloride

Concen: 0.427 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

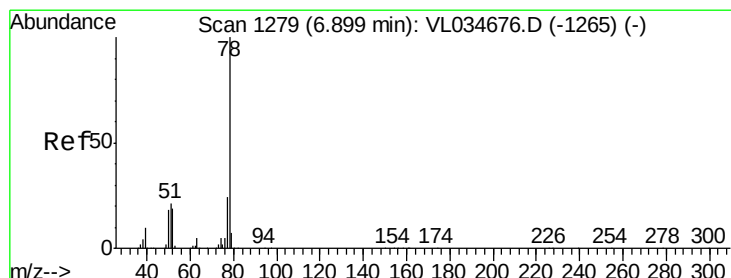
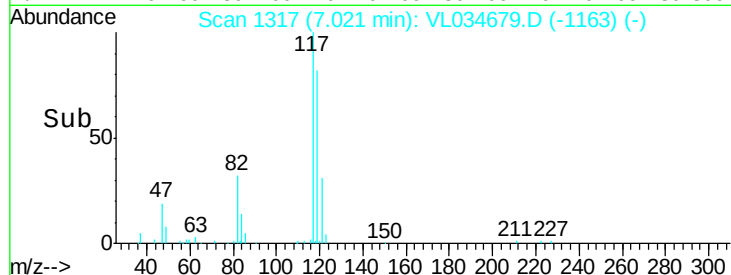
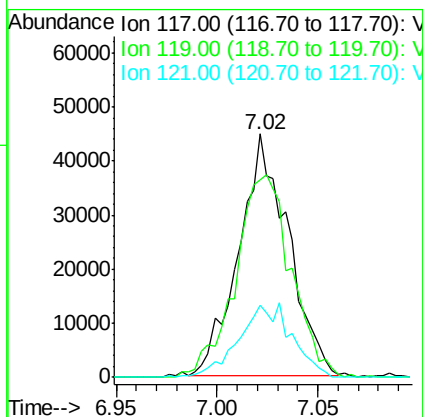
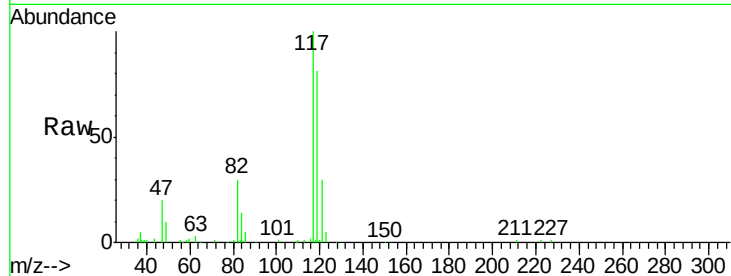
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	76450
Ion Ratio	Lower	Upper	
117	100		
119	80.2	75.5	113.3
121	30.0	25.4	38.0

Manual Integrations
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#36

Benzene

Concen: 0.461 ppbv

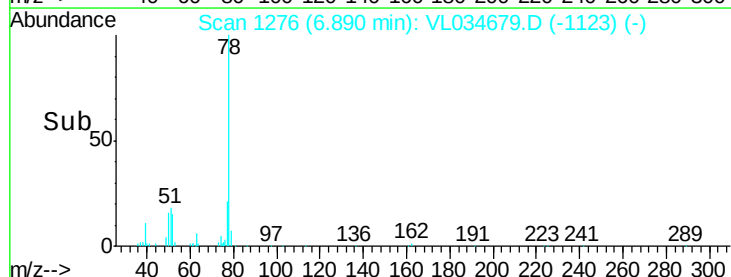
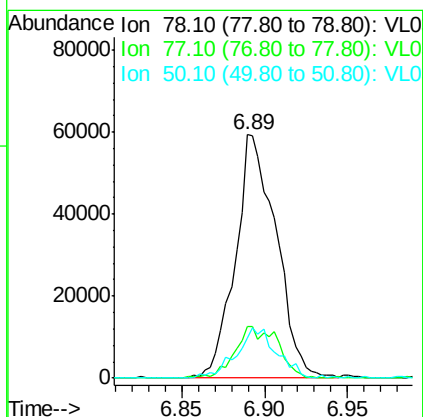
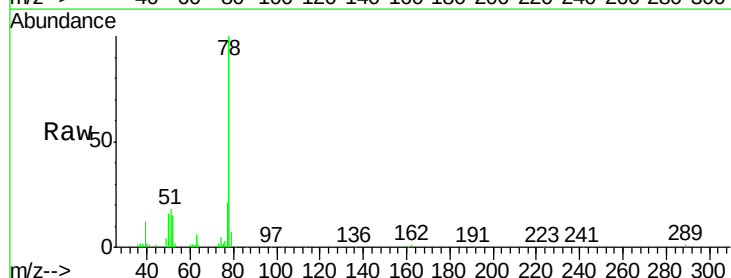
RT: 6.89 min Scan# 1276

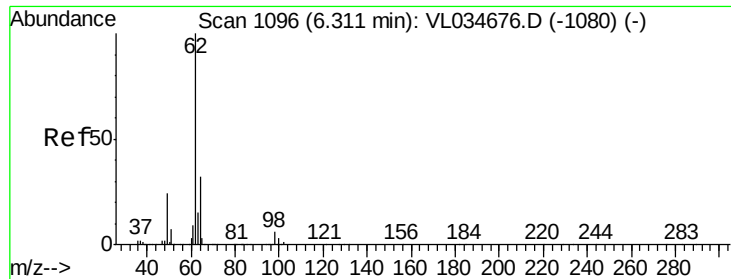
Delta R.T. -0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Tgt Ion:	78	Resp:	101942
Ion Ratio	Lower	Upper	
78	100		
77	20.5	19.5	29.3
50	16.2	14.6	21.8





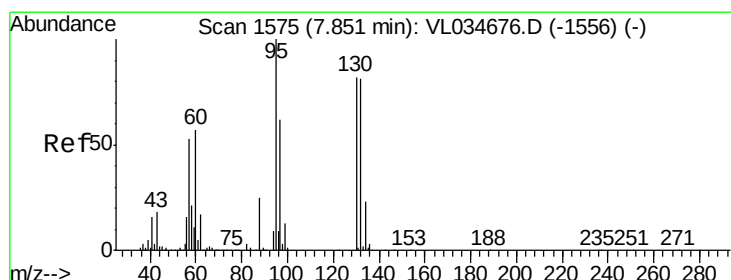
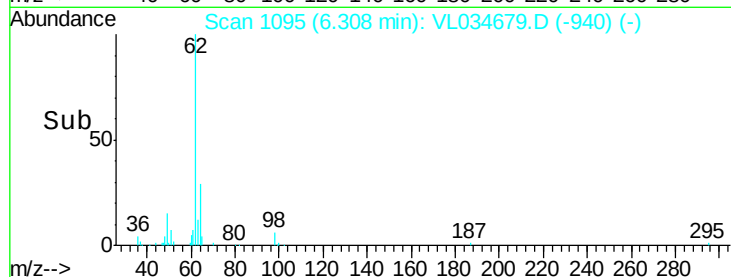
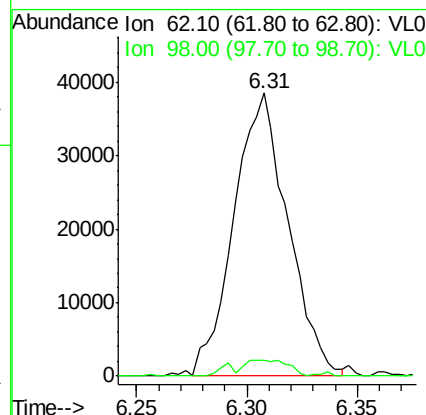
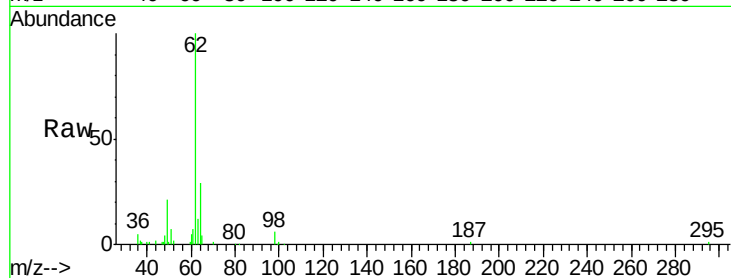
#37
 1,2-Dichloroethane
 Concen: 0.452 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
62	100	65433		
98	5.9		4.7	7.1

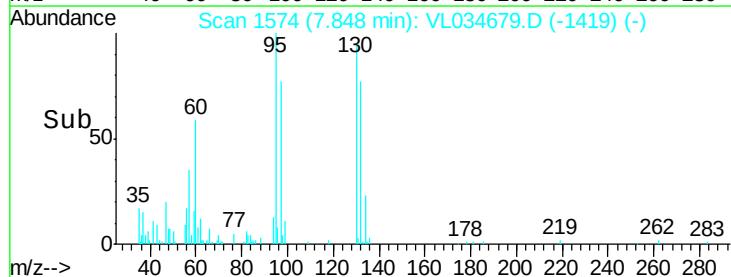
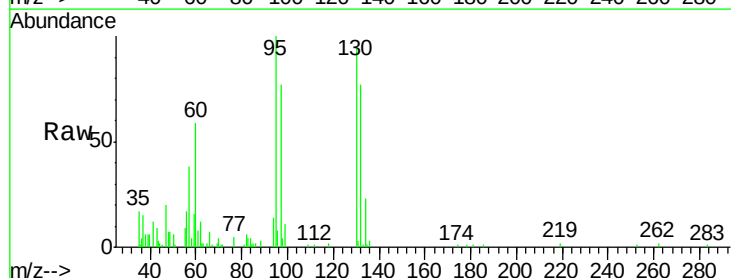
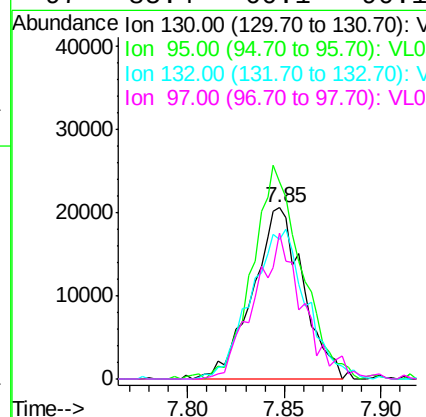
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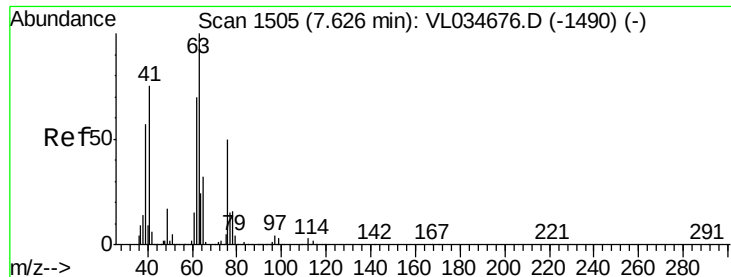
MMDadoda
 2/27/2020 5:19:24 PM



#38
 Trichloroethene
 Concen: 0.442 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	37118		
95	112.8		97.1	145.7
132	81.2		78.3	117.5
97	85.4		60.1	90.1





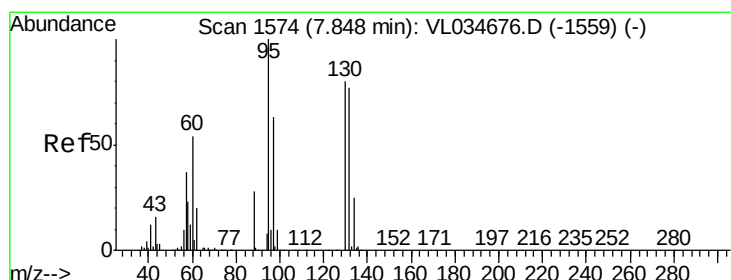
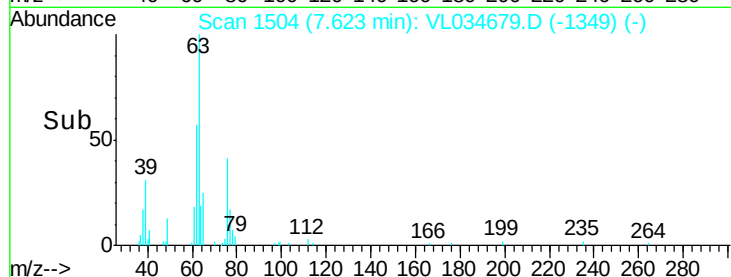
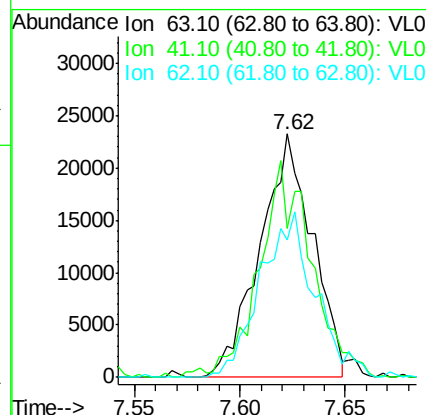
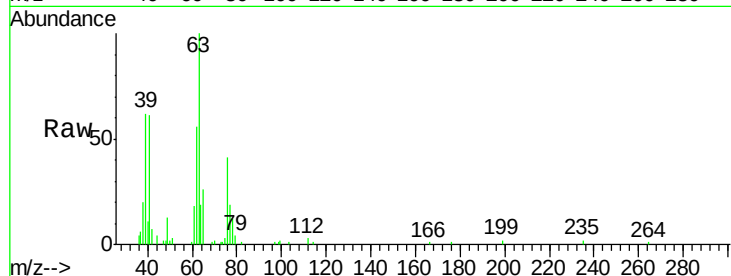
#39
 1,2-Dichloropropane
 Concen: 0.441 ppbv
 RT: 7.62 min Scan# 1504
 Delta R.T. -0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	58.8	60.2	90.4#
62	56.2	56.3	84.5#

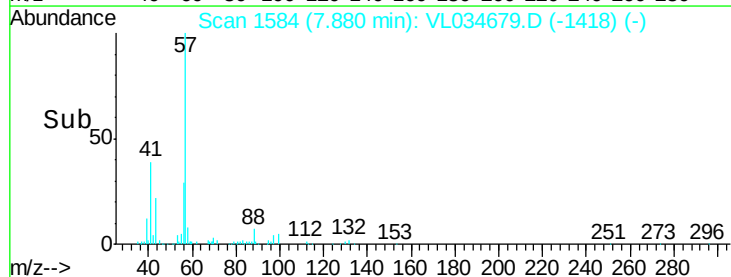
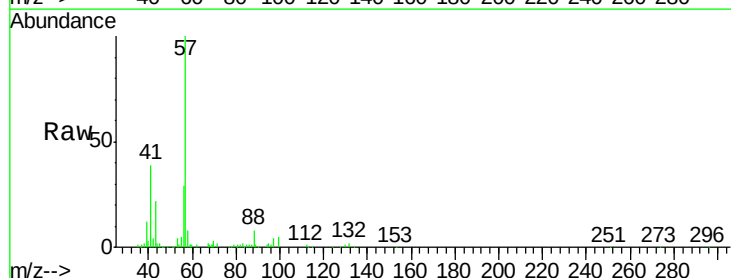
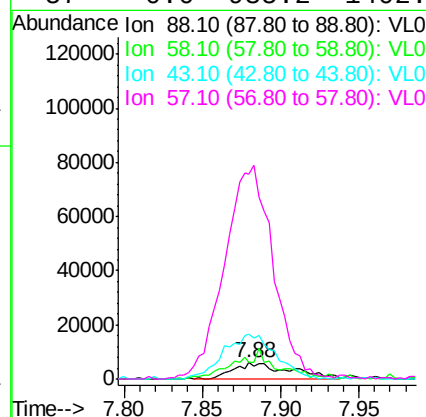
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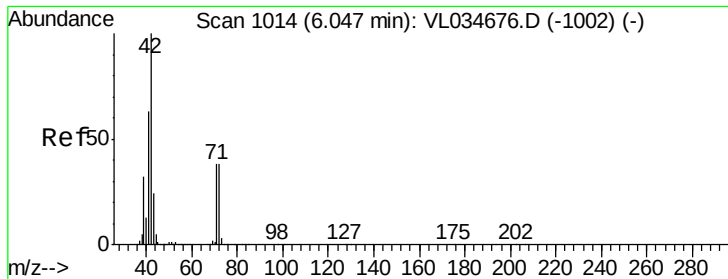
MMDadoda
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#40
 1,4-Dioxane
 Concen: 0.447 ppbv m
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.03 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	104.6	156.8#
43	0.0	212.9	319.3#
57	0.0	935.2	1402.8#





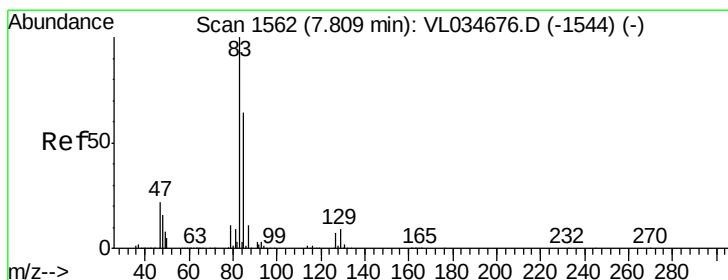
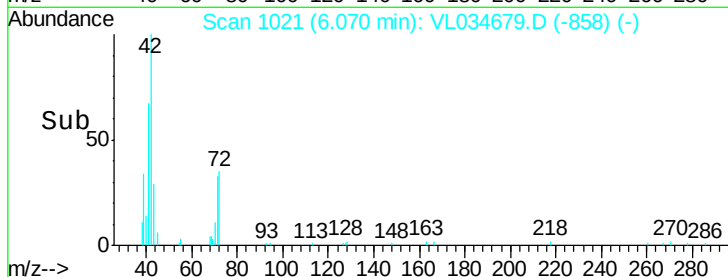
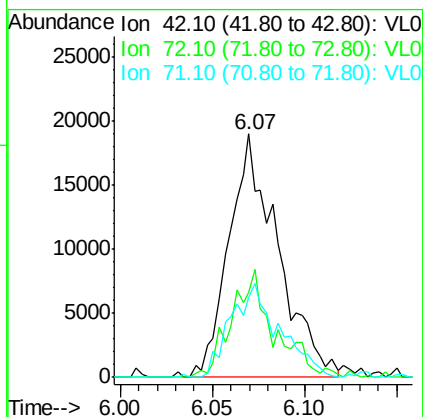
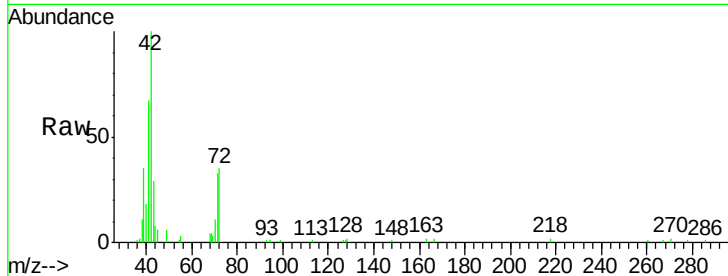
#41
Tetrahydrofuran
Concen: 0.402 ppbv m
RT: 6.07 min Scan# 1021
Delta R.T. 0.02 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.7	47.5
71	38.7	30.7	46.1

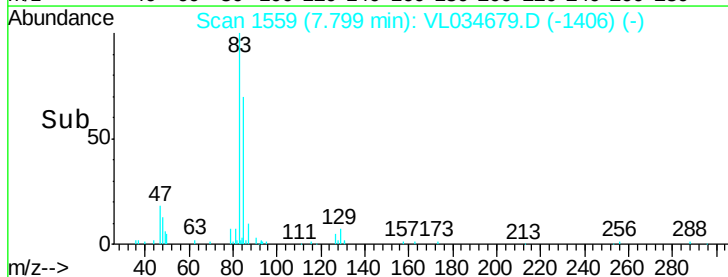
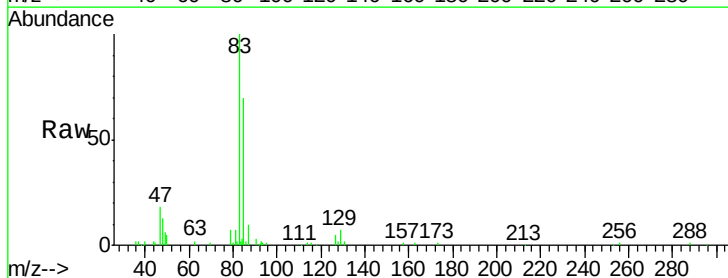
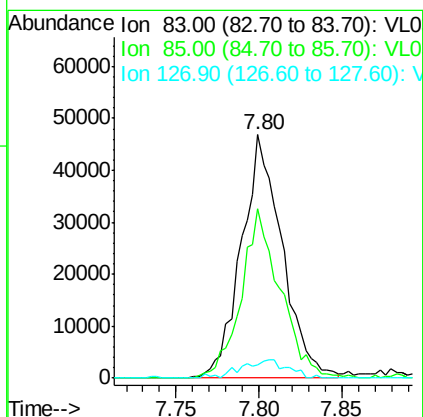
Manual Integrations
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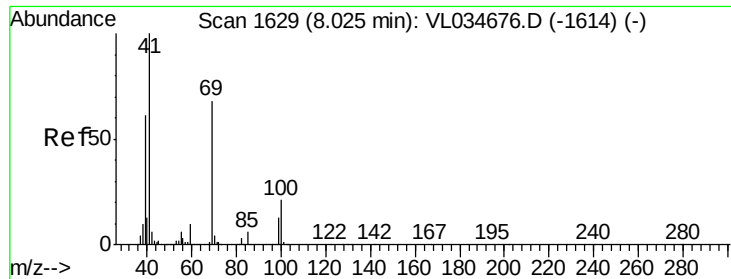
MMDadoda
2/27/2020 5:19:24 PM



#42
Bromodichloromethane
Concen: 0.426 ppbv
RT: 7.80 min Scan# 1559
Delta R.T. -0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.8	51.1	76.7
127	5.2	5.8	8.8#





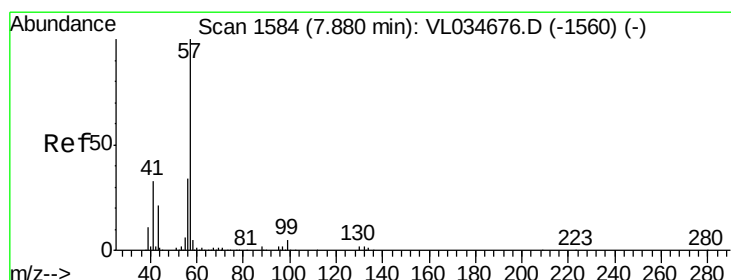
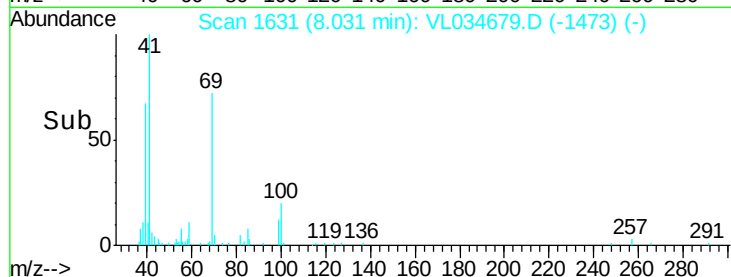
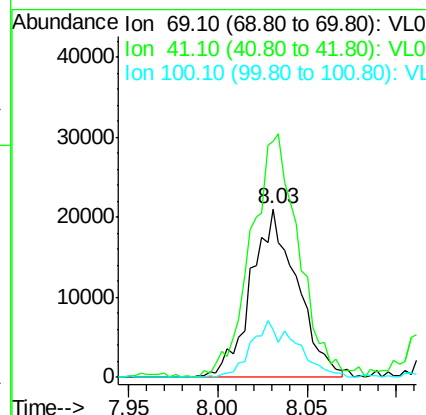
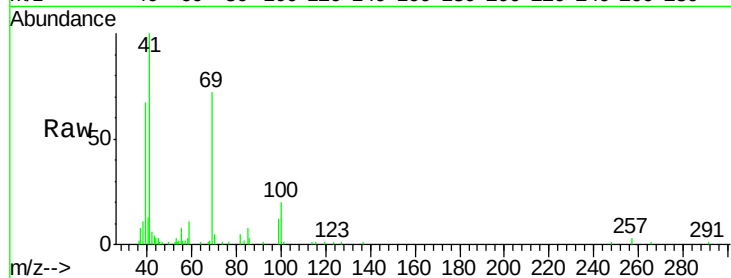
#43
Methyl Methacrylate
Concen: 0.437 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	152.2	118.2	177.2
100	33.0	24.2	36.2

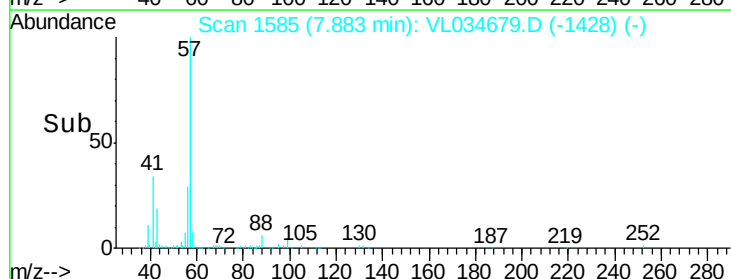
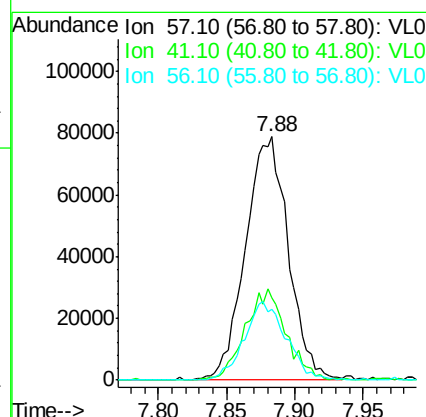
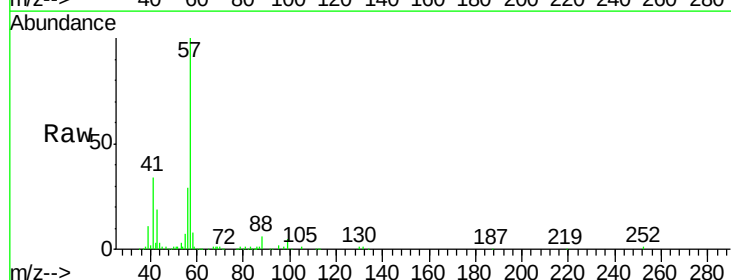
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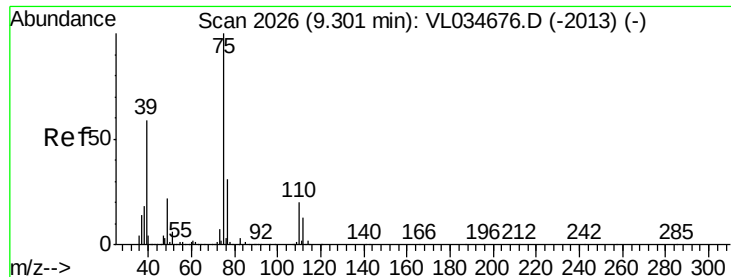
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.432 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.00 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.8	26.0	39.0
56	31.5	25.6	38.4





#45

t-1,3-Dichloropropene

Concen: 0.347 ppbv m

RT: 9.29 min Scan# 2024

Delta R.T. -0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 35202

Ion Ratio Lower Upper

75 100

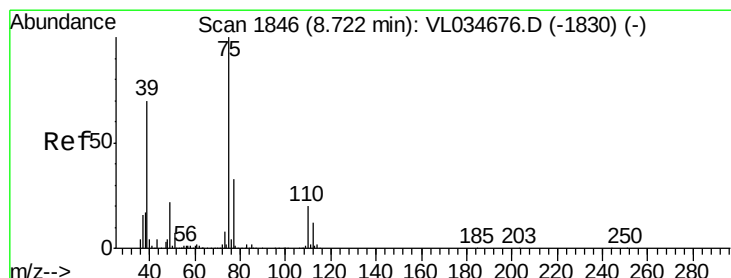
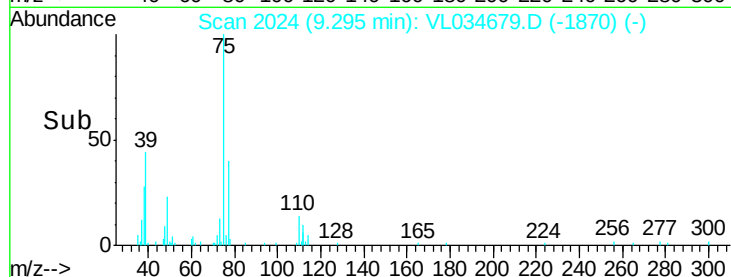
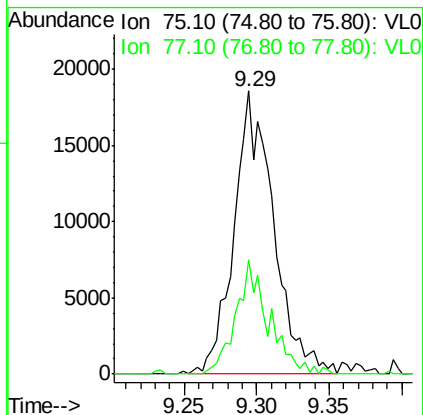
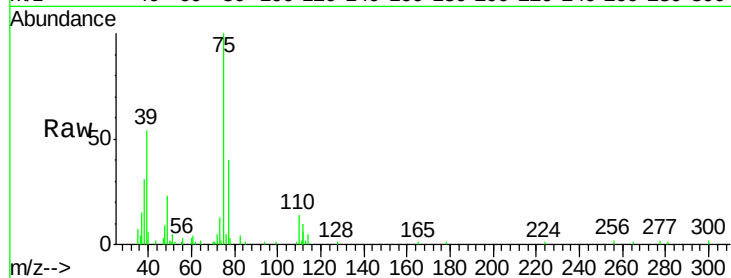
77 40.2 25.3 37.9#

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#46

cis-1,3-Dichloropropene

Concen: 0.382 ppbv m

RT: 8.72 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

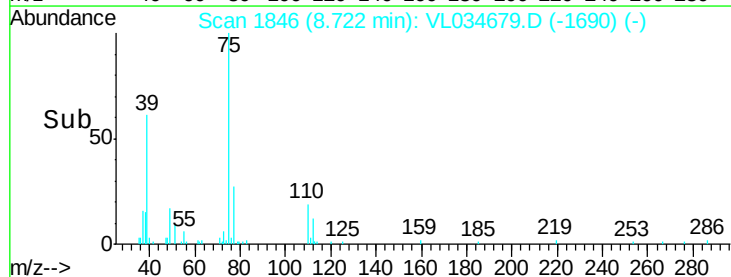
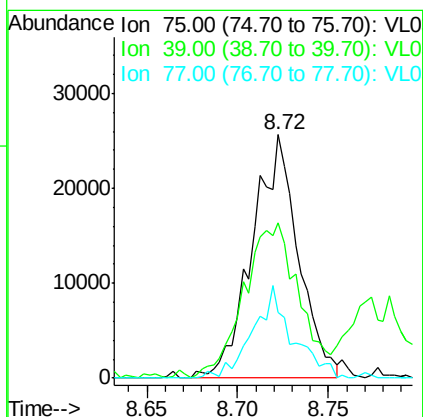
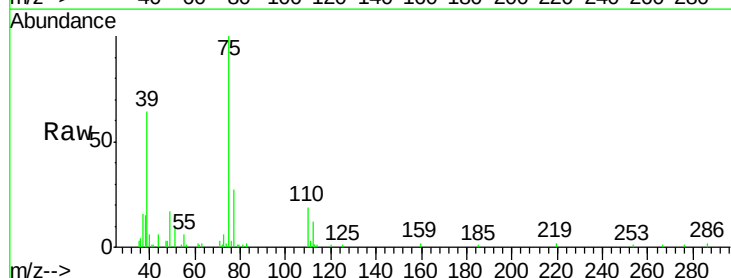
Tgt Ion: 75 Resp: 45332

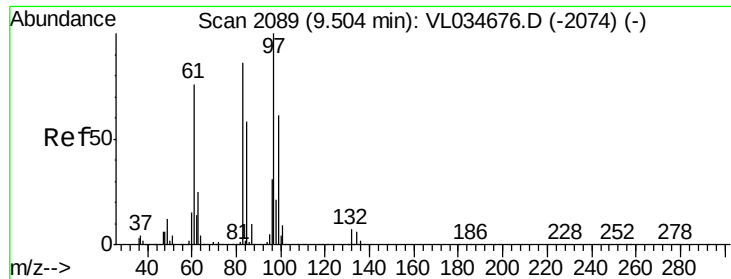
Ion Ratio Lower Upper

75 100

39 63.6 55.7 83.5

77 26.8 26.3 39.5





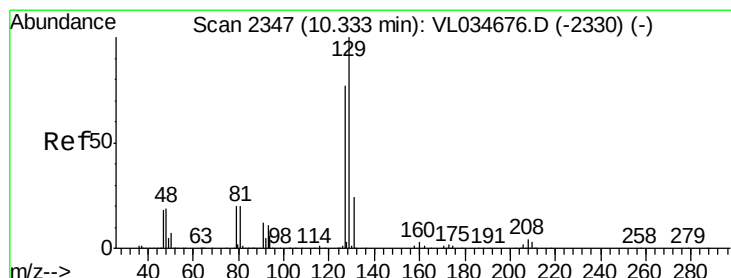
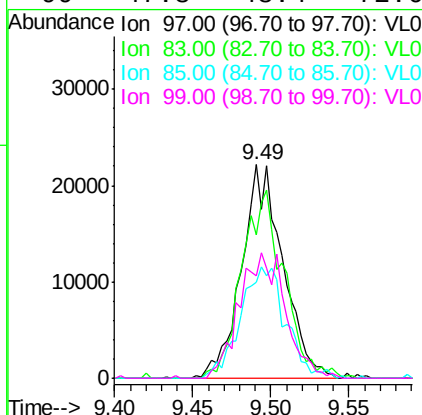
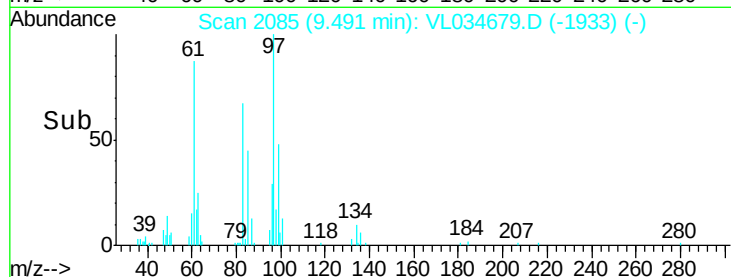
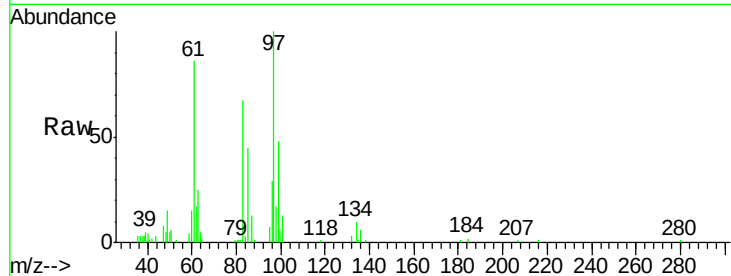
#47
 1,1,2-Trichloroethane
 Concen: 0.425 ppbv m
 RT: 9.49 min Scan# 2085
 Delta R.T. -0.01 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
97	100		
83	67.0	69.4	104.0#
85	44.8	46.4	69.6#
99	47.8	48.4	72.6#

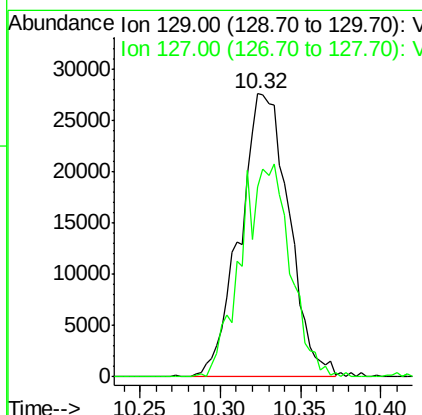
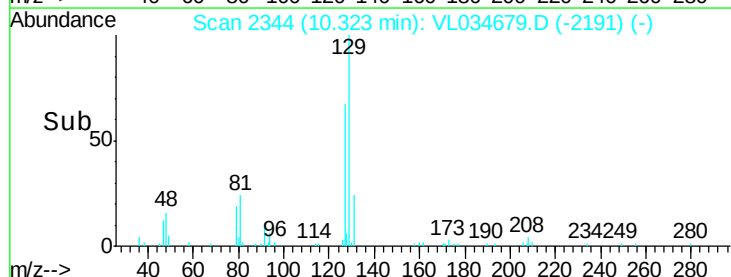
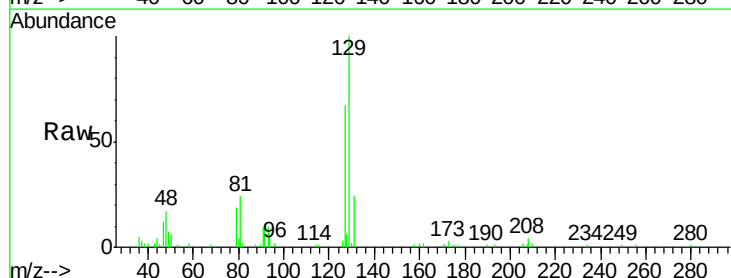
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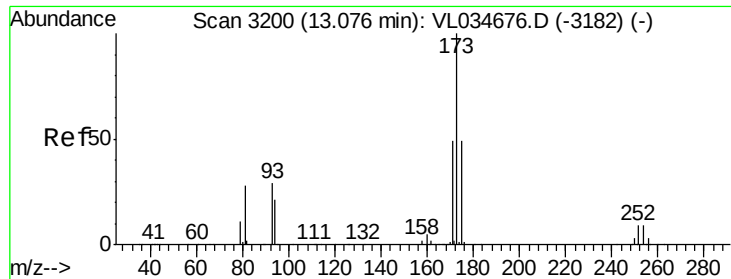
MMDadoda
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#48
 Dibromochloromethane
 Concen: 0.391 ppbv m
 RT: 10.32 min Scan# 2344
 Delta R.T. -0.01 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.6	39.3	117.8





#49

Bromoform

Concen: 0.369 ppbv m

RT: 13.07 min Scan# 3199

Delta R.T. -0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:173 Resp: 47706

Ion Ratio Lower Upper

173 100

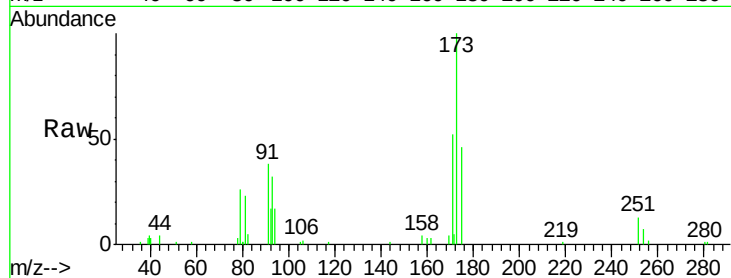
175 0.0 38.6 58.0#

171 53.7 41.5 62.3

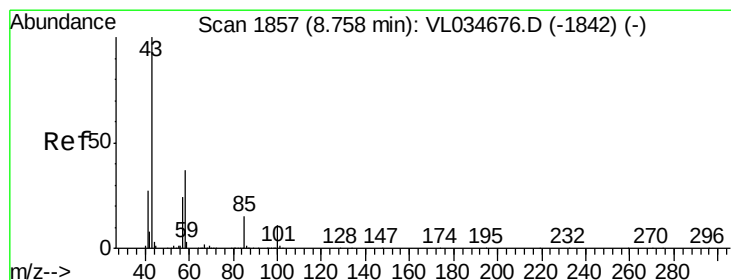
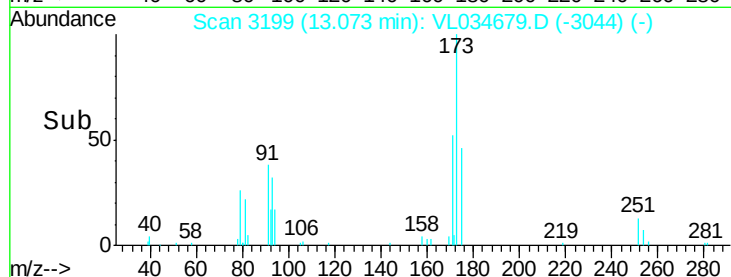
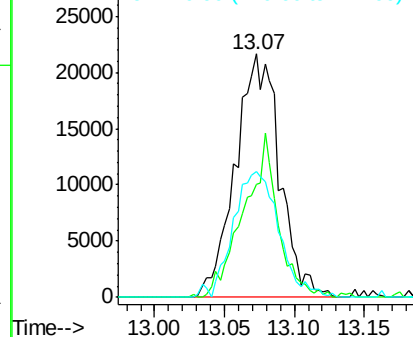
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.395 ppbv m

RT: 8.77 min Scan# 1862

Delta R.T. 0.02 min

Lab File: VL034679.D

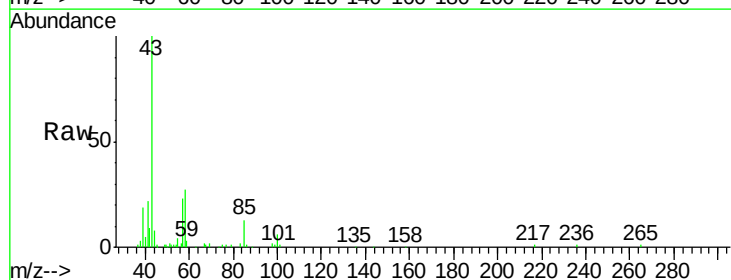
Acq: 26 Feb 2020 4:23

Tgt Ion: 43 Resp: 93491

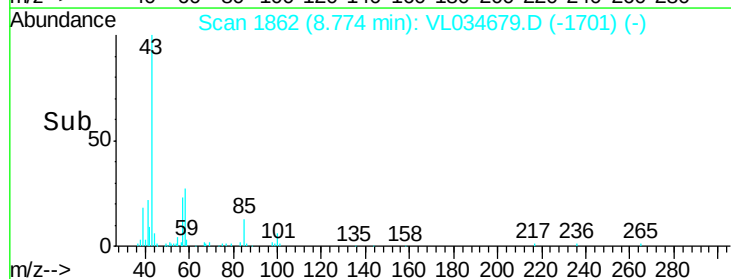
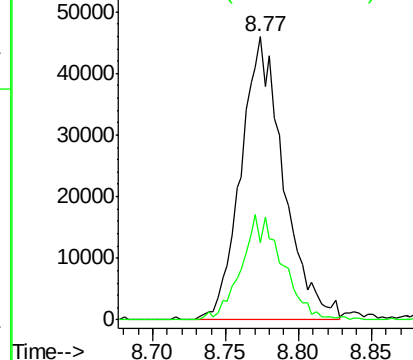
Ion Ratio Lower Upper

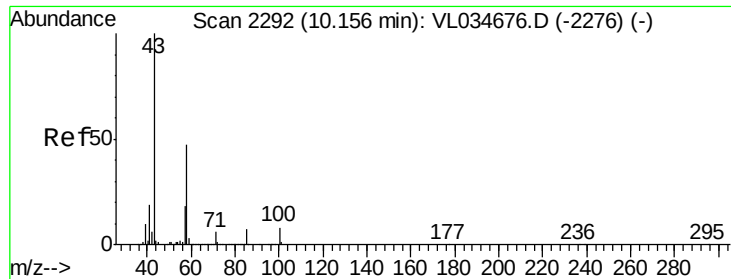
43 100

58 35.8 29.0 43.6



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





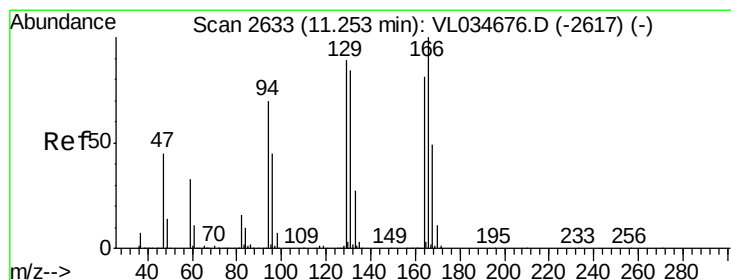
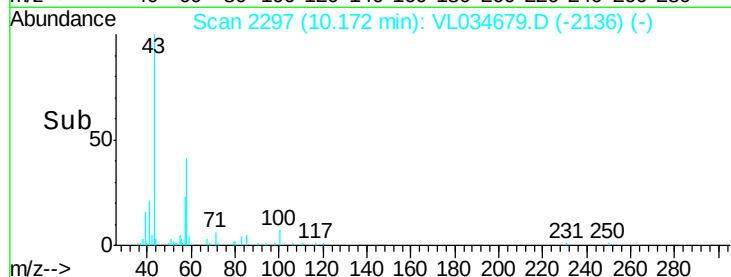
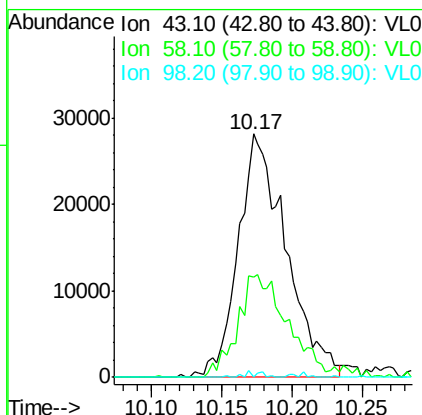
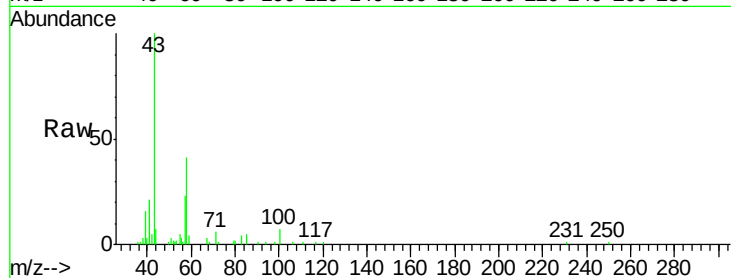
#51
2-Hexanone
Concen: 0.359 ppbv m
RT: 10.17 min Scan# 2297
Delta R.T. 0.02 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.4	59.0#
98	0.0	0.2	0.2#

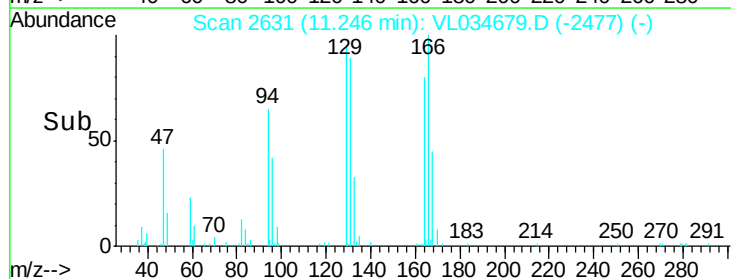
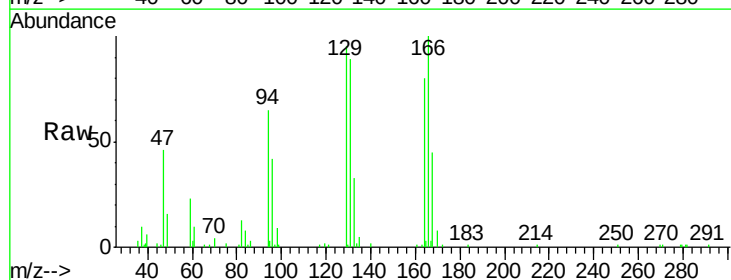
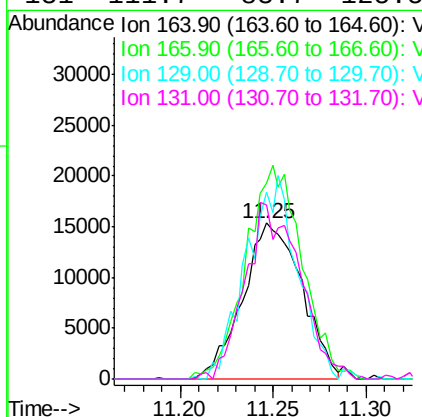
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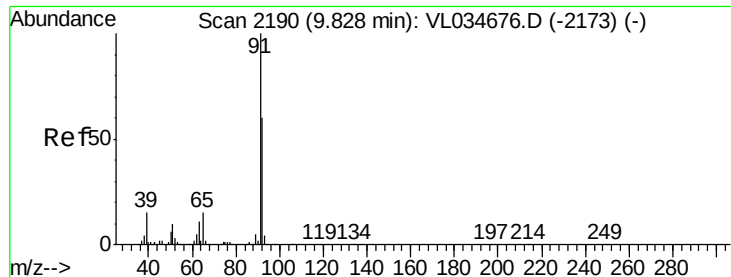
MMDadoda
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#52
Tetrachloroethene
Concen: 0.438 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.6	99.2	148.8
129	121.3	88.0	132.0
131	111.7	83.7	125.5





#53

Toluene

Concen: 0.390 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 92883

Ion Ratio Lower Upper

91 100

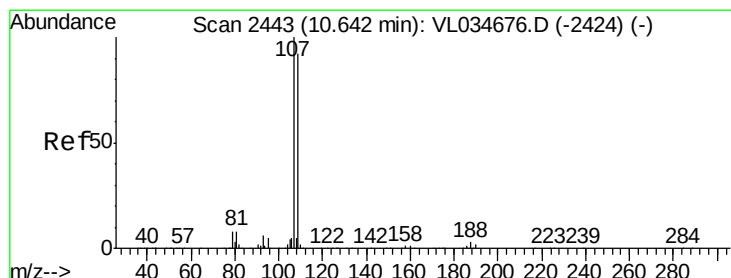
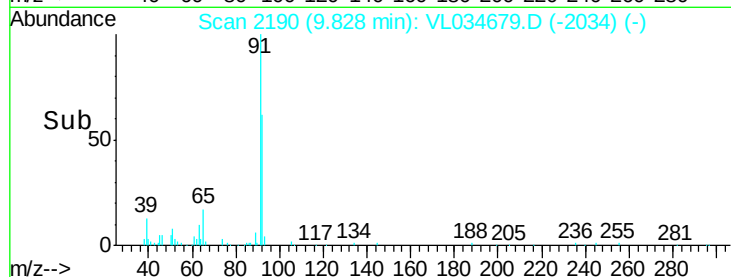
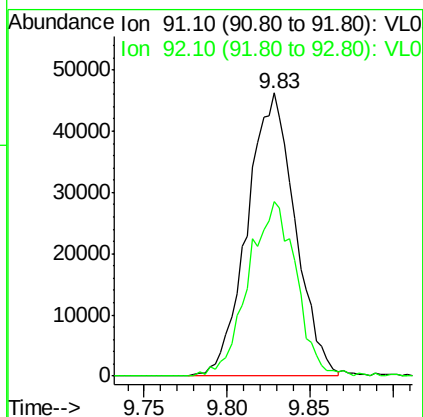
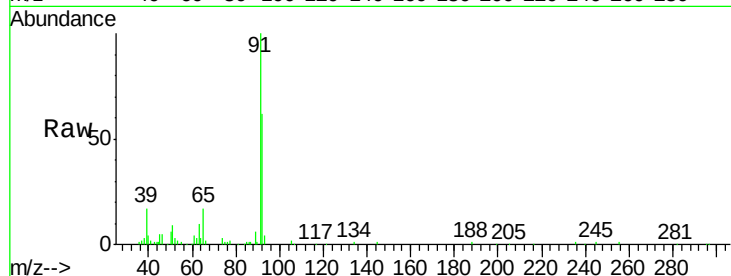
92 61.9 48.5 72.7

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 0.431 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.01 min

Lab File: VL034679.D

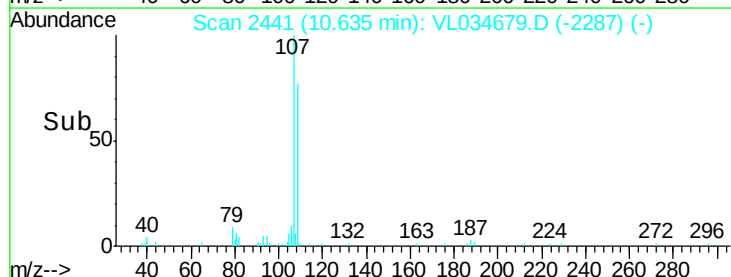
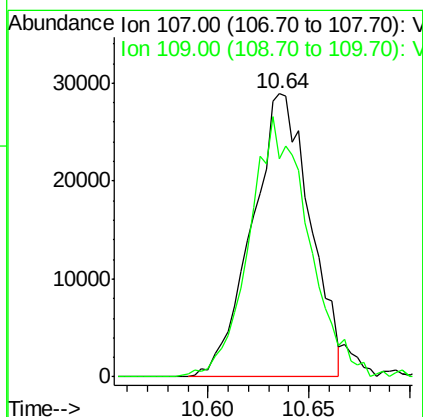
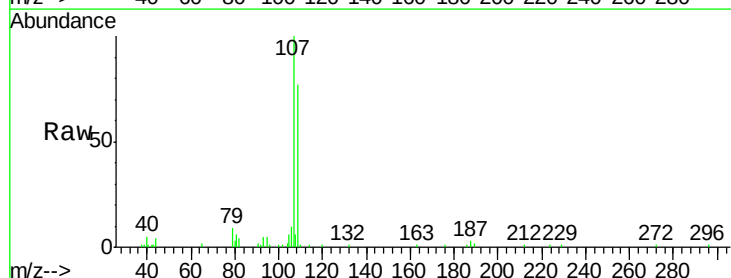
Acq: 26 Feb 2020 4:23

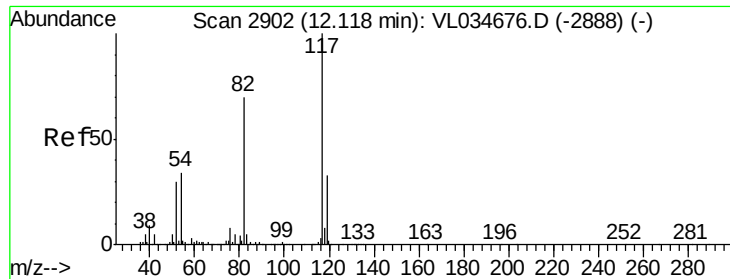
Tgt Ion: 107 Resp: 57789

Ion Ratio Lower Upper

107 100

109 75.5 73.9 110.9





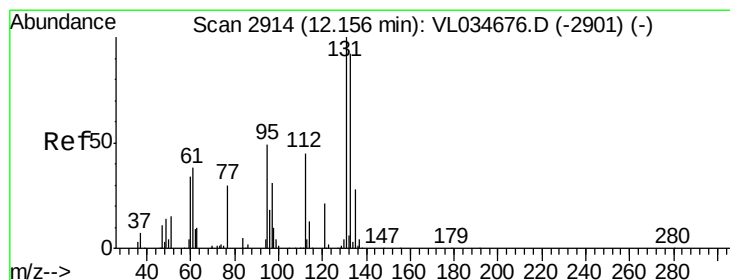
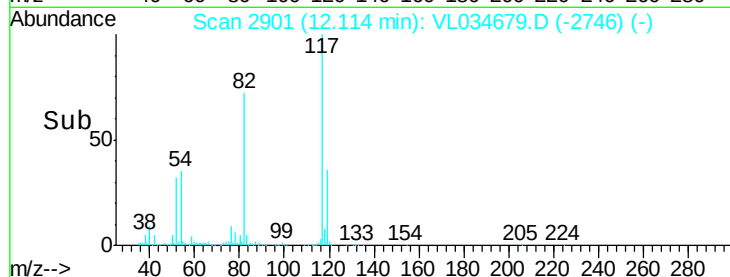
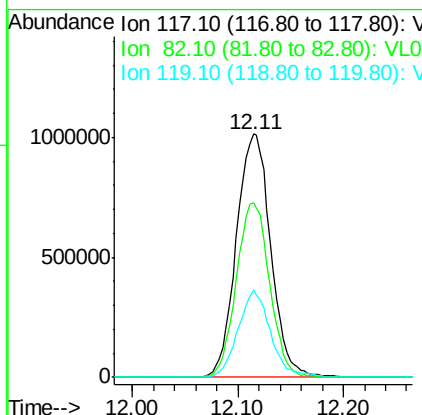
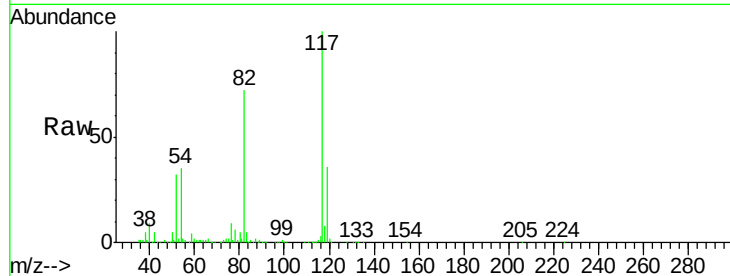
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.8	54.1	81.1
119	34.0	27.6	41.4

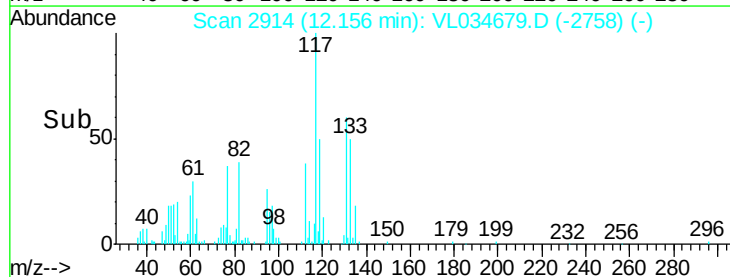
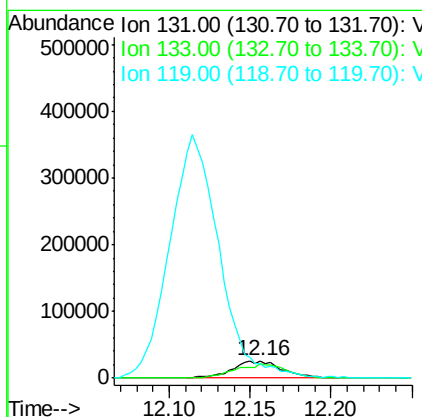
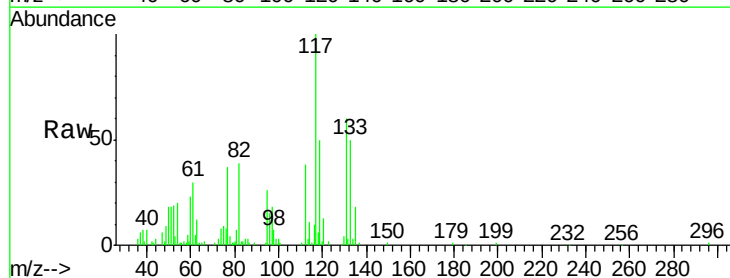
Manual Integrations
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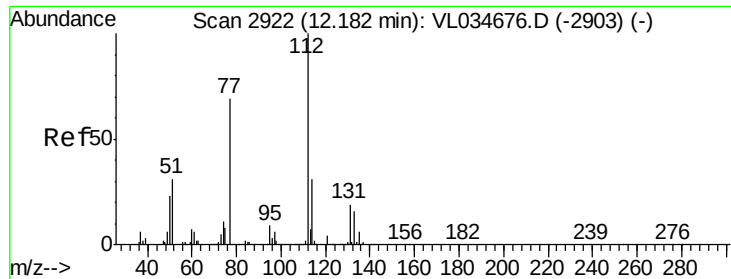
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.554 ppbv m
RT: 12.16 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
131	100		
133	83.9	76.6	114.8
119	0.0	51.3	76.9#





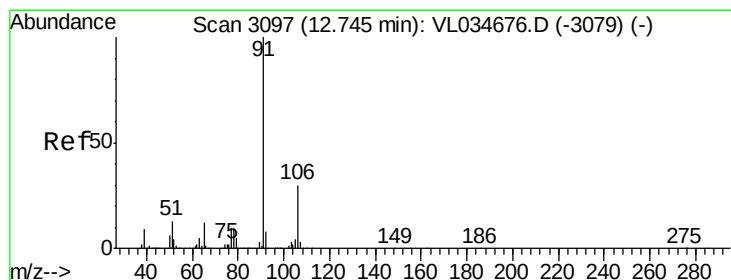
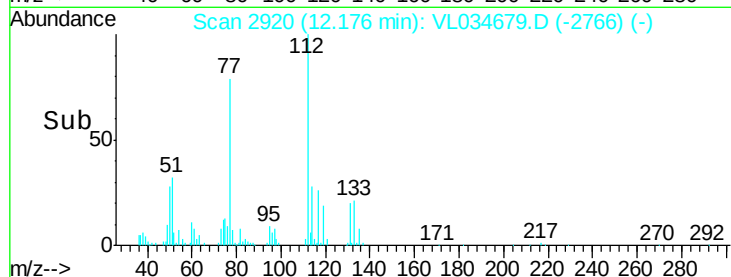
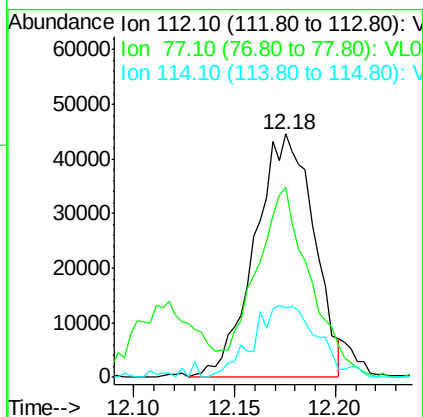
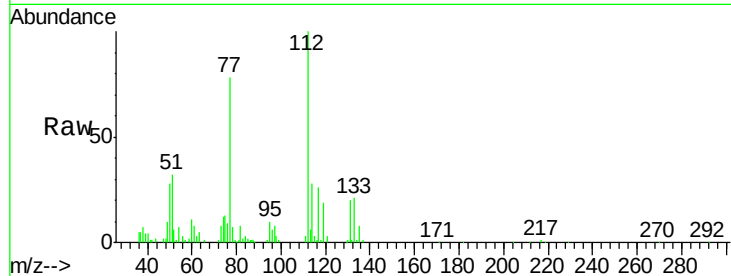
#57
Chlorobenzene
Concen: 0.476 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. -0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	64.6	56.5	84.7
114	28.4	28.1	34.3

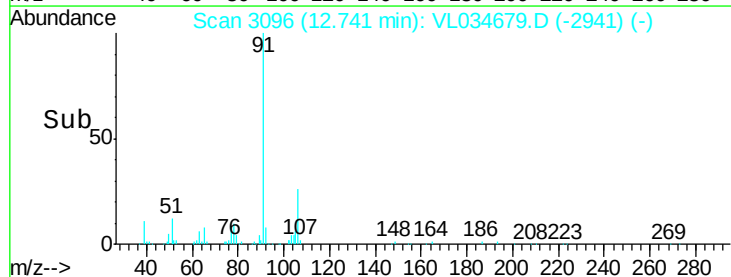
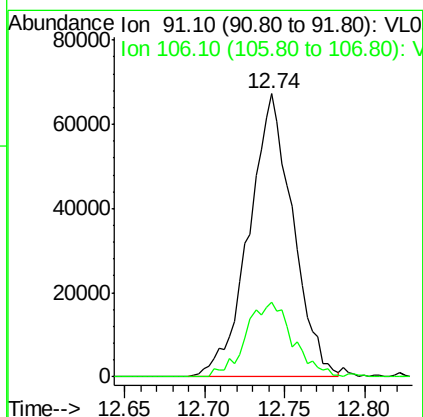
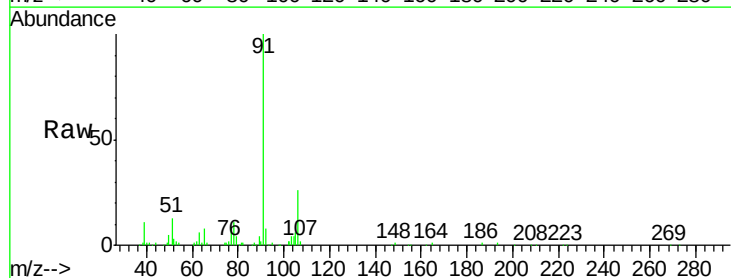
Manual Integrations
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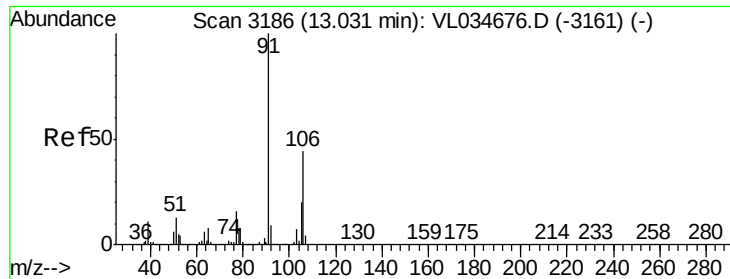
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#58
Ethyl Benzene
Concen: 0.415 ppbv
RT: 12.74 min Scan# 3096
Delta R.T. -0.00 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.4	24.0	36.0





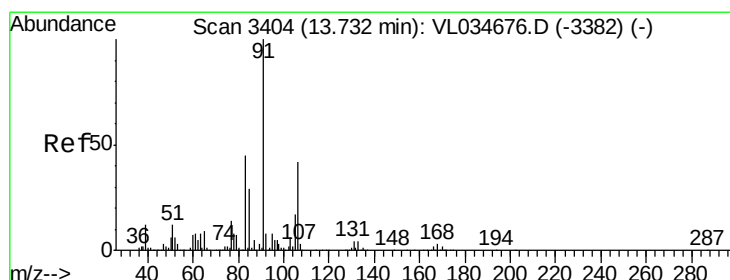
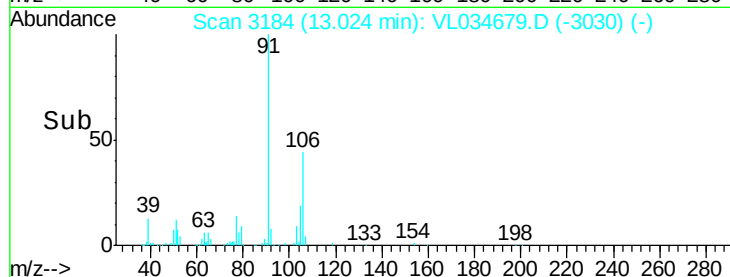
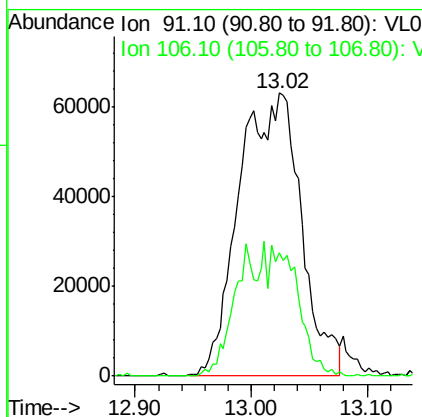
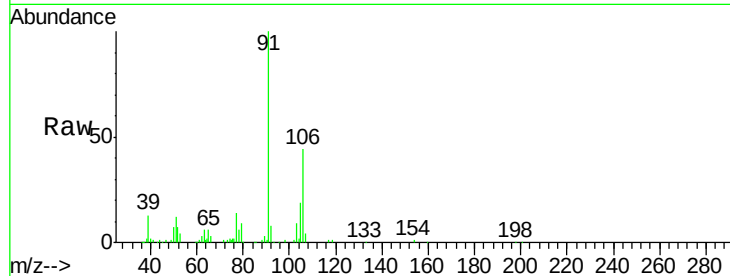
#59
m/p-Xylene
Concen: 0.874 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. -0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 234199
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#

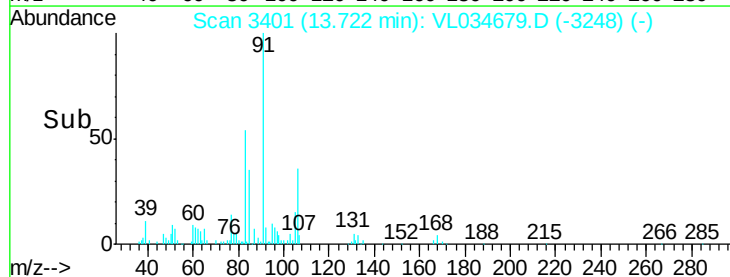
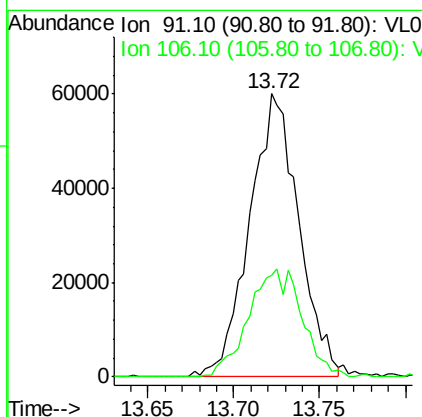
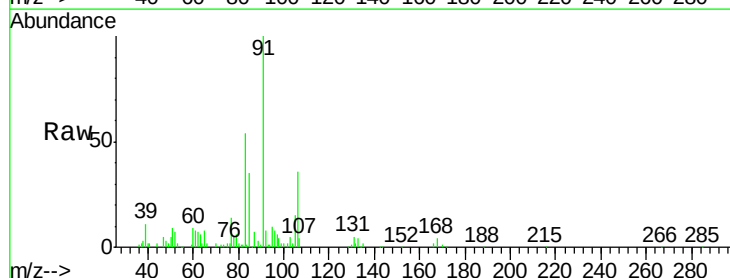
Manual Integrations
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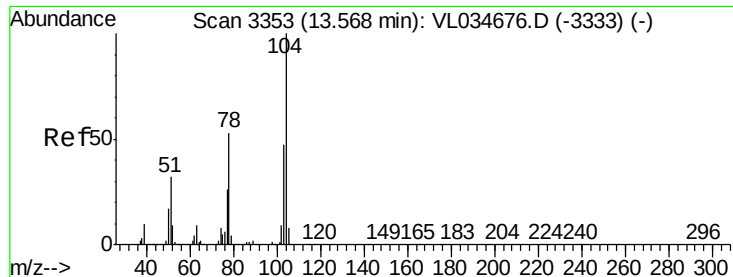
MMDadoda
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#60
o-Xylene
Concen: 0.446 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion: 91 Resp: 119259
Ion Ratio Lower Upper
91 100
106 41.7 21.9 65.5





#61

Stvrene

Concen: 0.332 ppbv

RT: 13.56 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

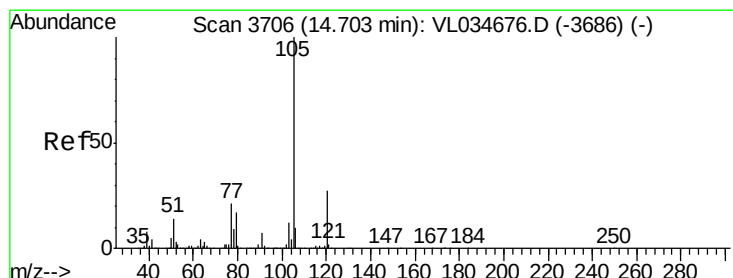
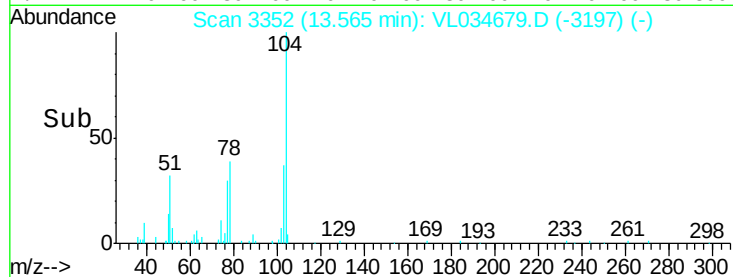
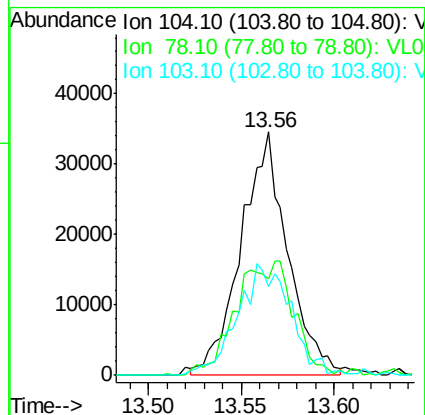
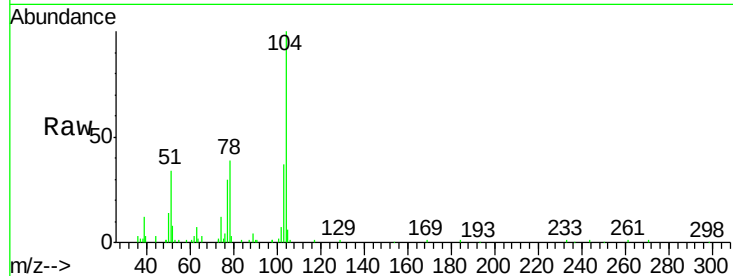
ClientSampleId :

VSTDIC0.5

Tot Ion:	104	Resp:	60789
Ion Ratio	Lower	Upper	
104	100		
78	59.0	44.2	66.4
103	53.2	37.4	56.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.490 ppbv m

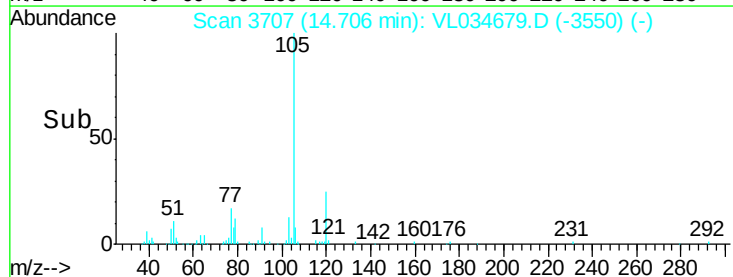
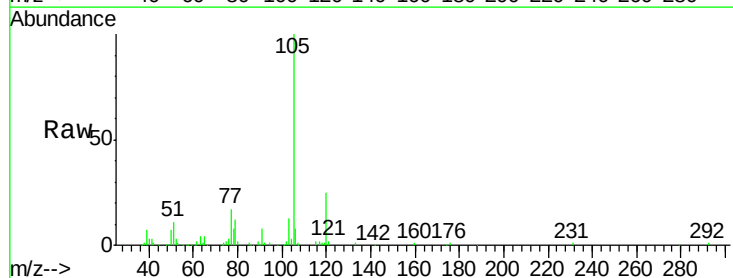
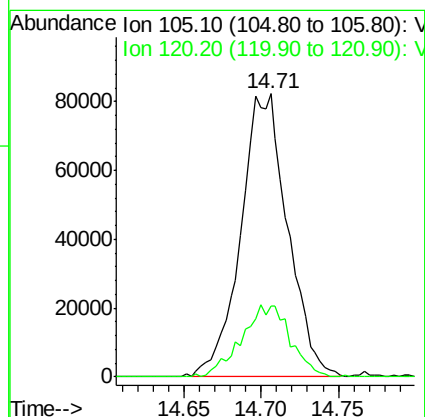
RT: 14.71 min Scan# 3707

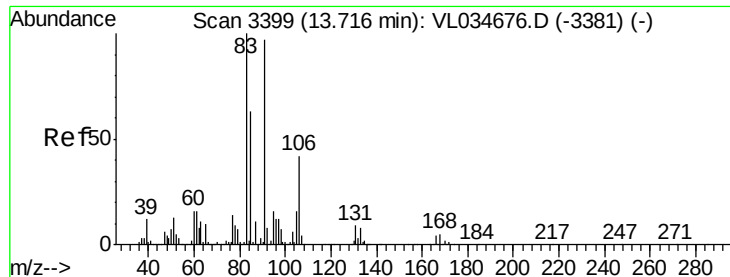
Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Tgt Ion:	105	Resp:	173736
Ion Ratio	Lower	Upper	
105	100		
120	26.5	20.2	30.4





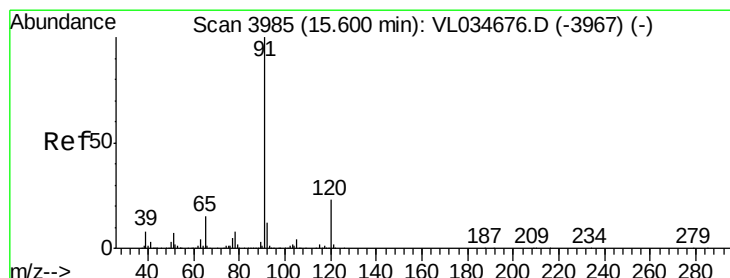
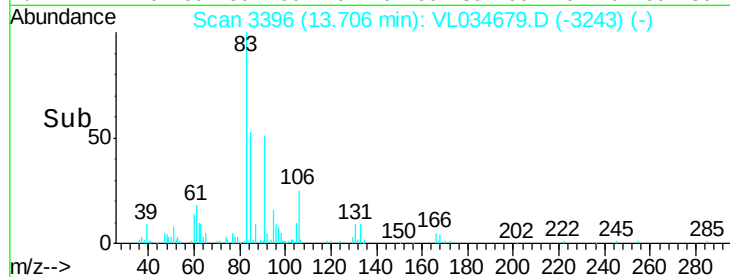
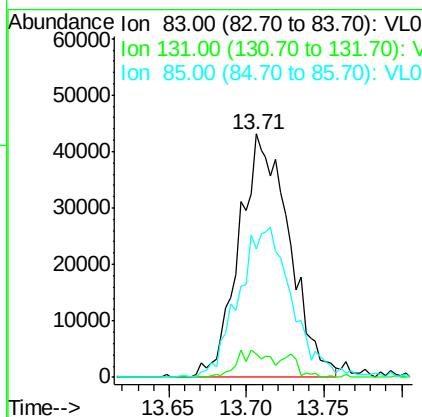
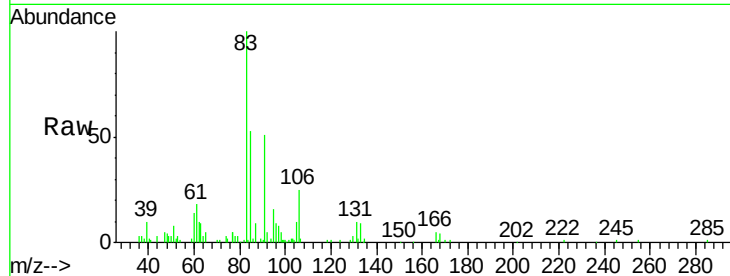
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.455 ppbv m
 RT: 13.71 min Scan# 3396
 Delta R.T. -0.01 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	83	Resp	96702
Ion Ratio	100	Lower	Upper
83	100		
131	0.0	4.4	13.2#
85	66.1	32.5	97.5

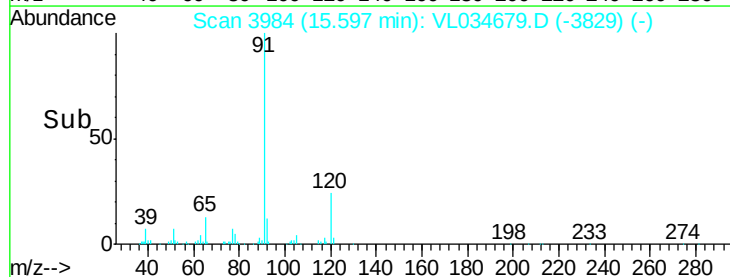
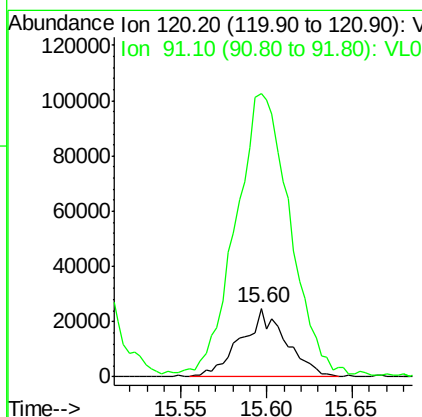
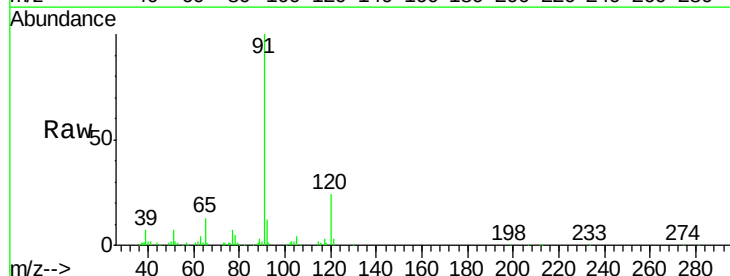
Manual Integrations
 APPROVED

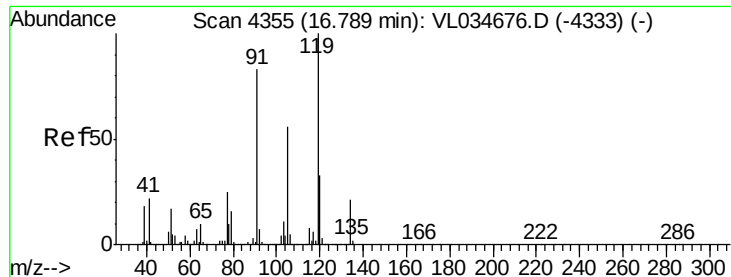
MMDadoda
 2/27/2020 5:19:24 PM



#64
 n-propylbenzene
 Concen: 0.502 ppbv m
 RT: 15.60 min Scan# 3984
 Delta R.T. -0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	120	Resp	45129
Ion Ratio	100	Lower	Upper
120	100		
91	510.6	369.8	554.8





#65

tert-Butylbenzene

Concen: 0.462 ppbv m

RT: 16.79 min Scan# 4355

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

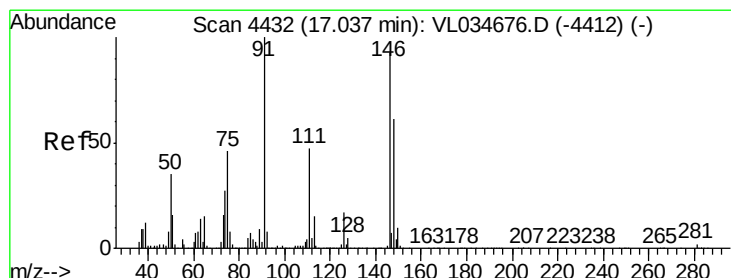
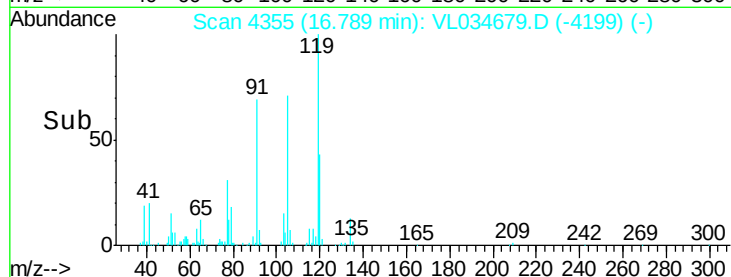
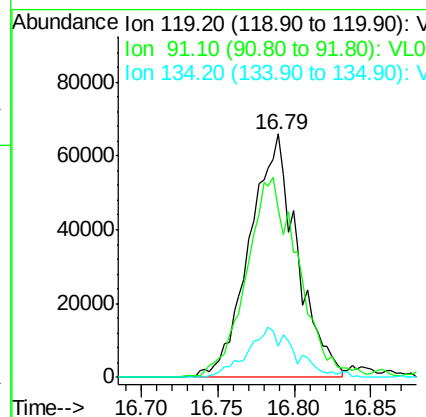
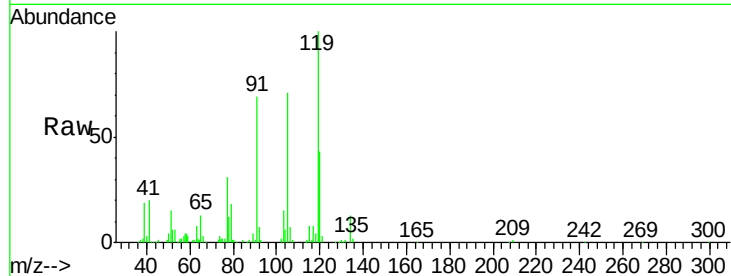
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	142938
Ion Ratio	Lower	Upper	
119	100		
91	91.8	69.1	103.7
134	20.7	15.8	23.8

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.353 ppbv m

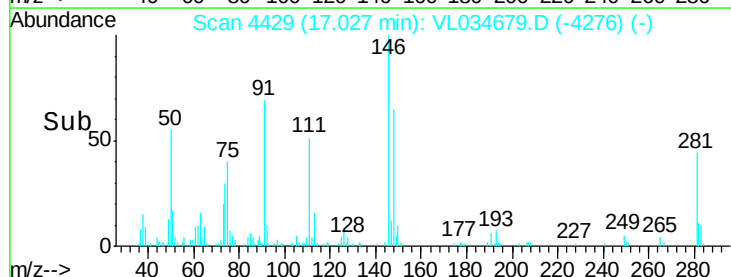
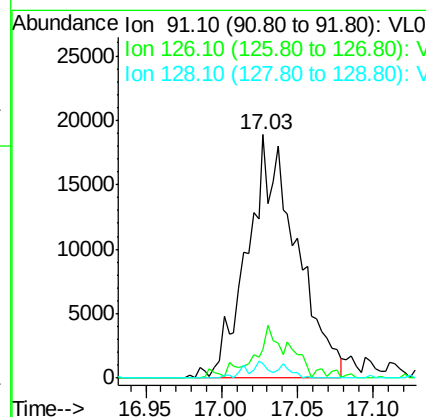
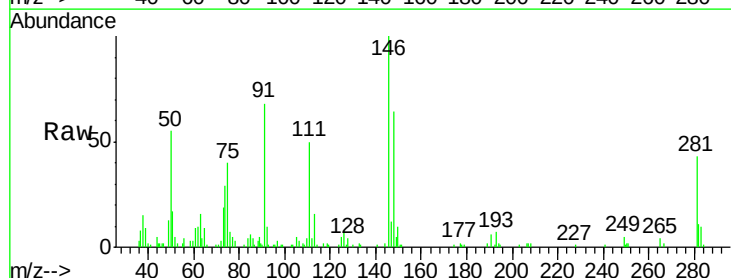
RT: 17.03 min Scan# 4429

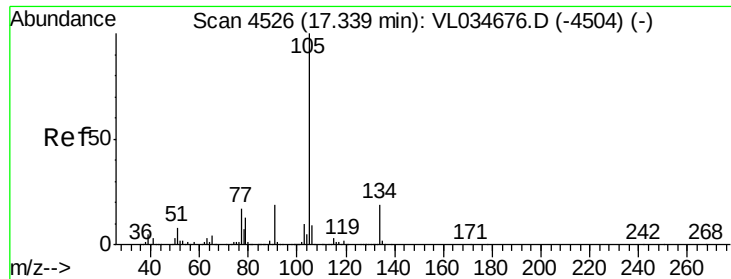
Delta R.T. -0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Tgt Ion:	91	Resp:	42156
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.5	20.3#
128	0.0	4.2	6.4#





#67

sec-Butylbenzene

Concen: 0.471 ppbv m

RT: 17.33 min Scan# 4524

Delta R.T. -0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 208052

Ion Ratio Lower Upper

105 100

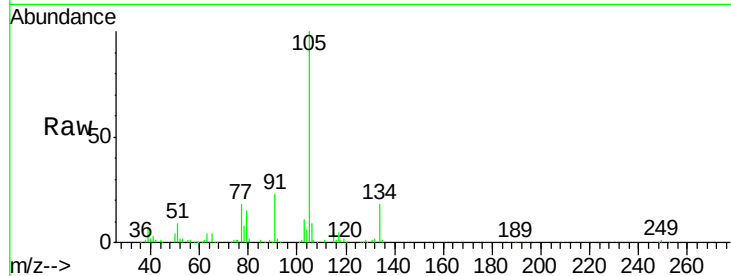
134 18.1 14.8 22.2

Manual Integrations

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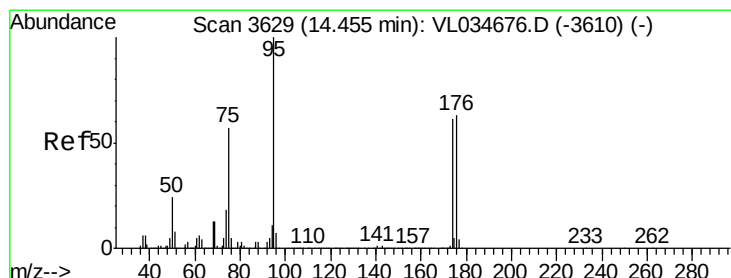
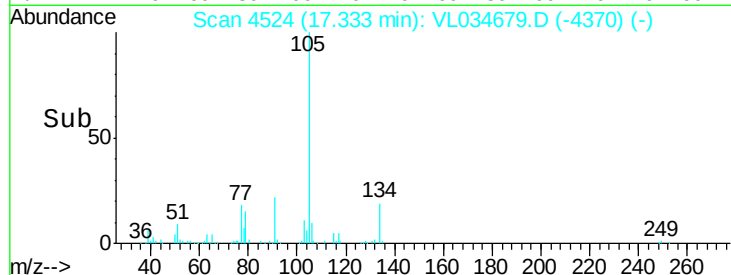
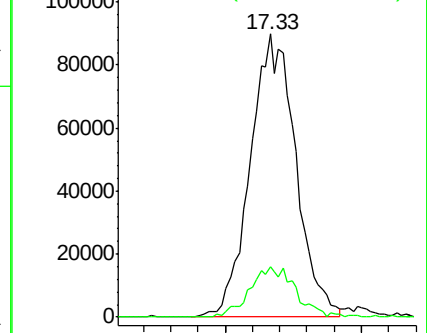
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.198 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.01 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

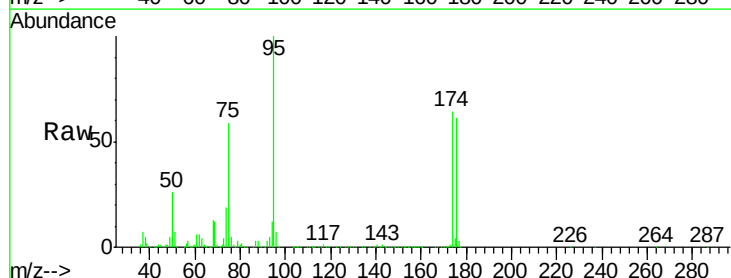
Tgt Ion: 95 Resp: 1921042

Ion Ratio Lower Upper

95 100

174 64.3 50.7 76.1

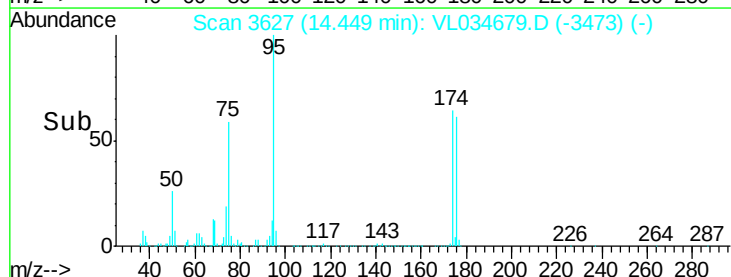
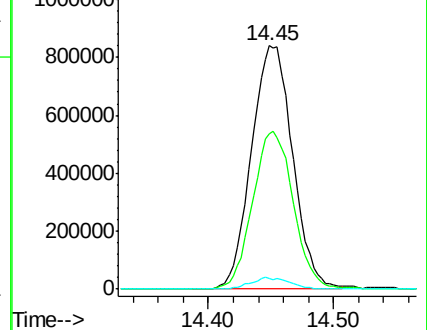
175 4.6 3.9 5.9

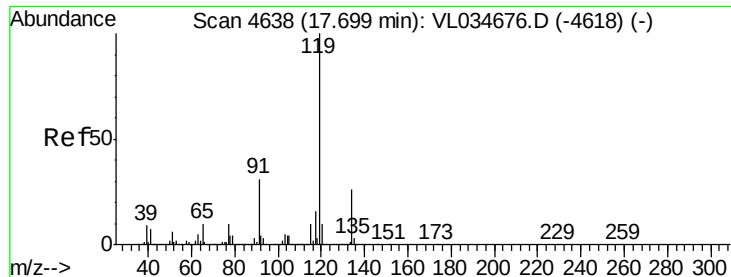


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





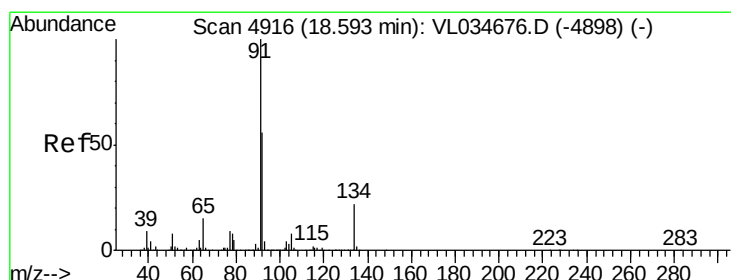
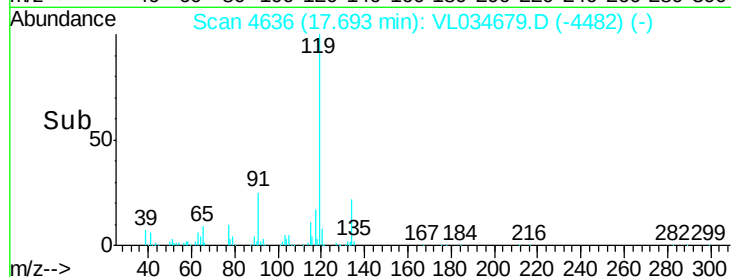
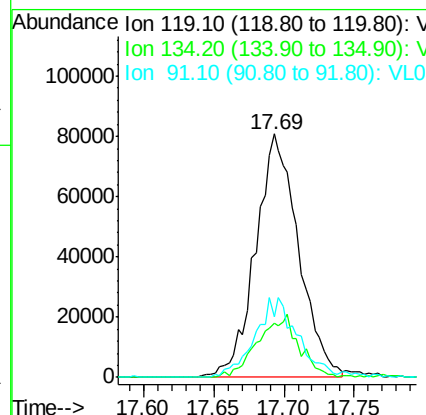
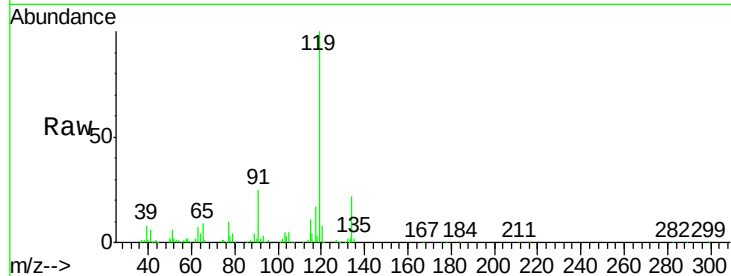
#69
 p-Isopropyltoluene
 Concen: 0.490 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.01 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	171880		
134	24.7	20.6	31.0	
91	33.2	25.3	37.9	

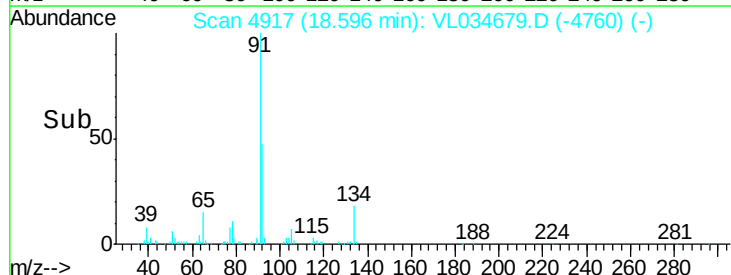
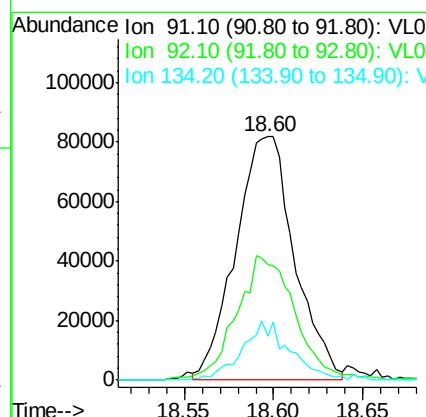
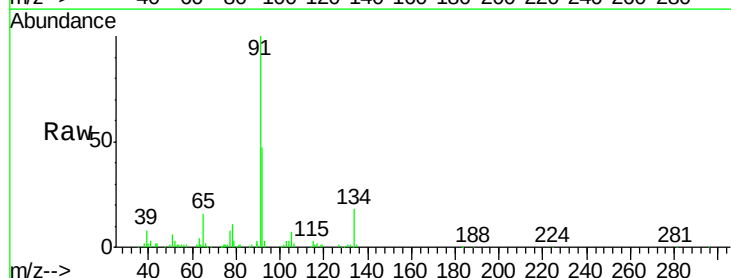
Manual Integrations
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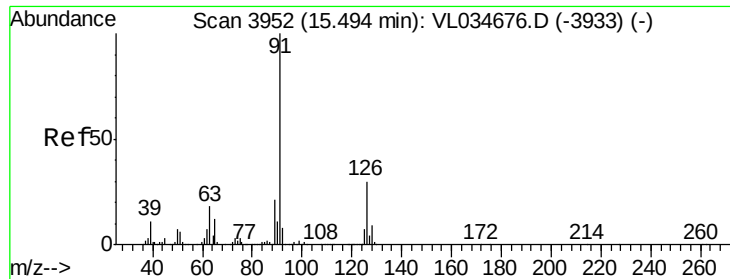
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#70
 n-Butylbenzene
 Concen: 0.500 ppbv
 RT: 18.60 min Scan# 4917
 Delta R.T. 0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	187722		
92	51.3	43.8	65.6	
134	19.9	17.6	26.4	





#71

2-Chlorotoluene

Concen: 0.480 ppbv m

RT: 15.49 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 130577

Ion Ratio Lower Upper

91 100

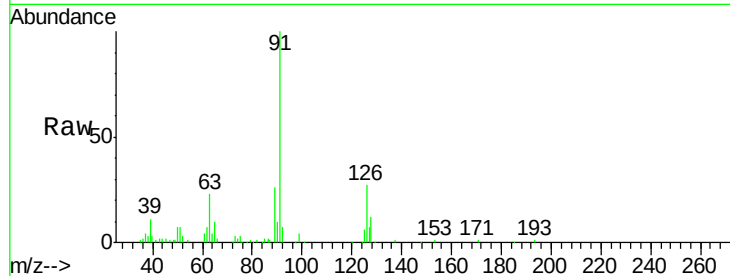
126 0.0 11.8 47.2#

Manual Integrations

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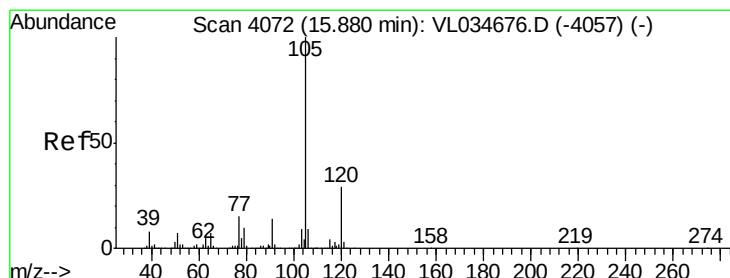
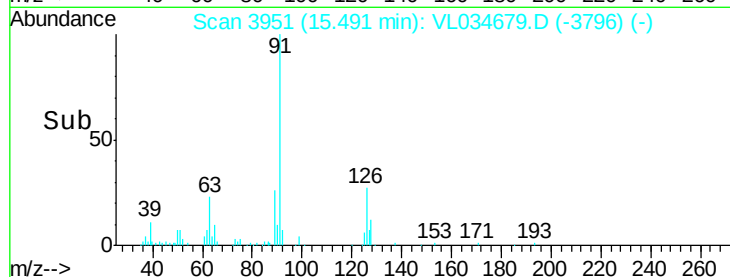
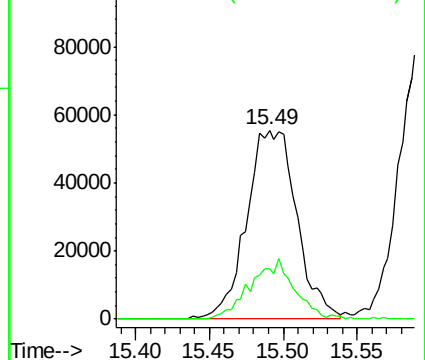
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.407 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Tgt Ion: 105 Resp: 120342

Ion Ratio Lower Upper

105 100

120 30.5 23.7 35.5

91 17.4 10.9 16.3#

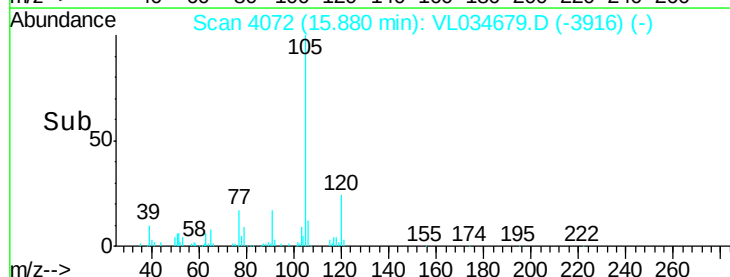
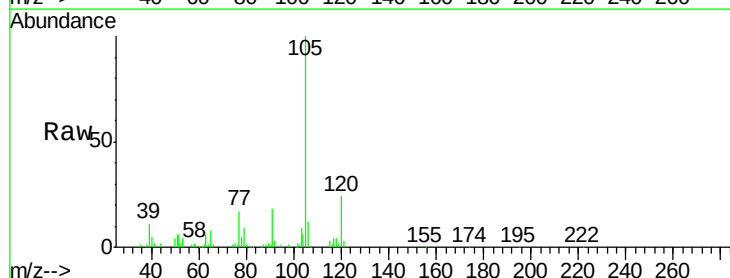
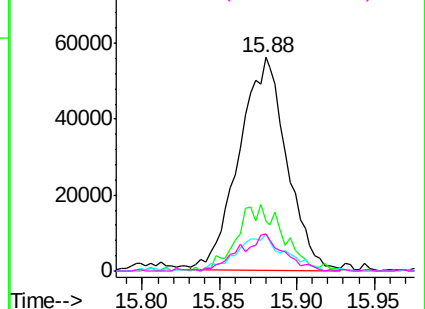
77 16.3 12.2 18.2

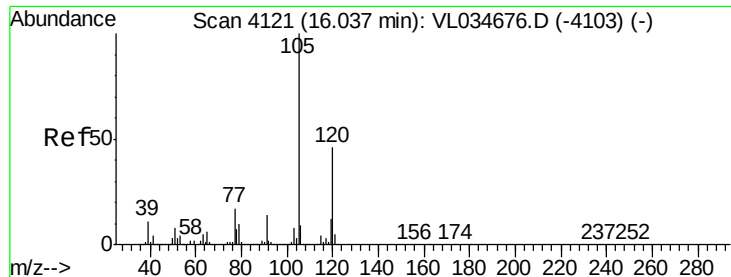
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.429 ppbv m

RT: 16.04 min Scan# 4121

Delta R.T. 0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 120220

Ion Ratio Lower Upper

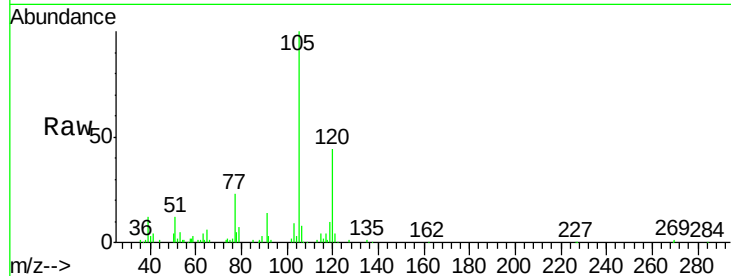
105 100

120 44.0 37.1 55.7

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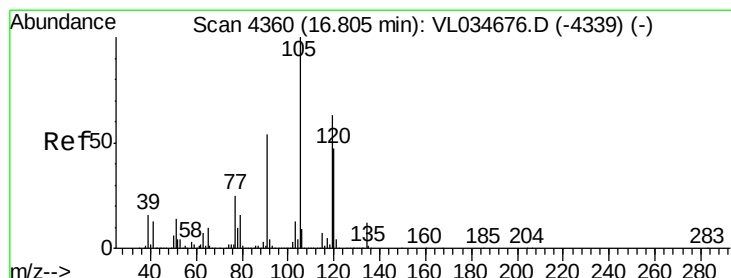
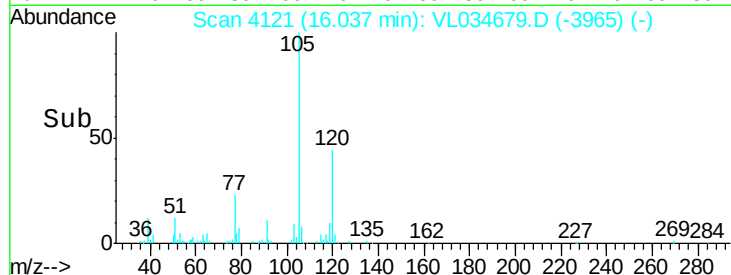
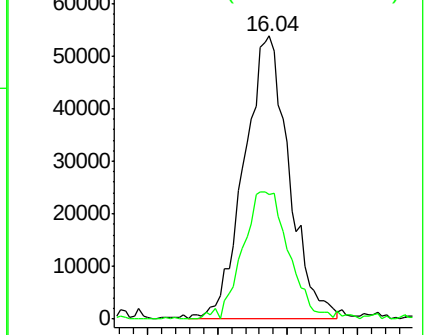
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.478 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Tgt Ion:105 Resp: 144351

Ion Ratio Lower Upper

105 100

120 37.5 37.9 56.9#

91 52.1 43.9 65.9

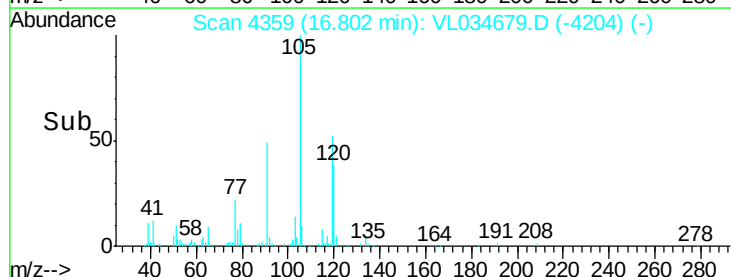
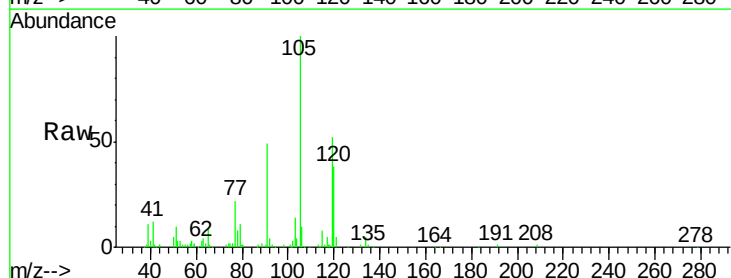
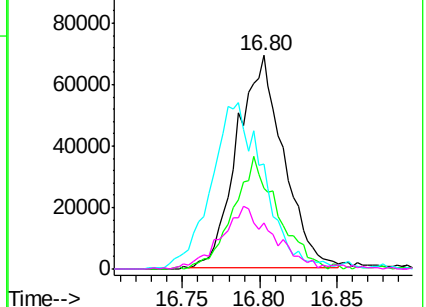
77 20.1 20.3 30.5#

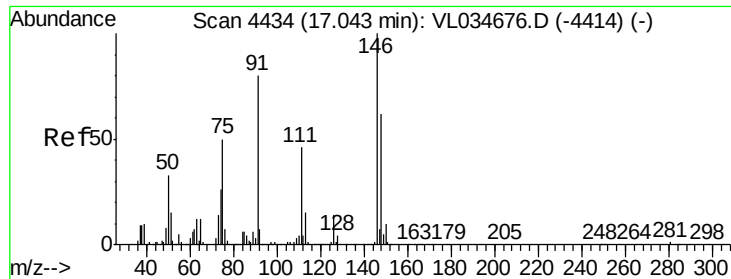
Abundance Ion 105.10 (104.80 to 105.80): V

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





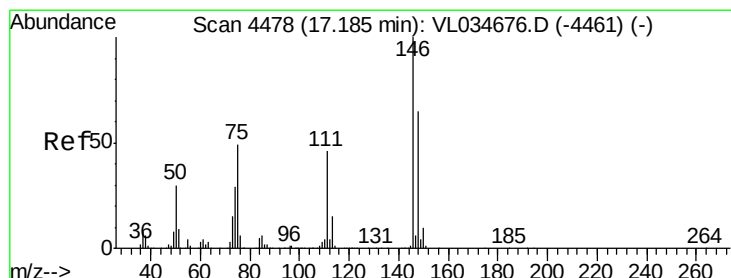
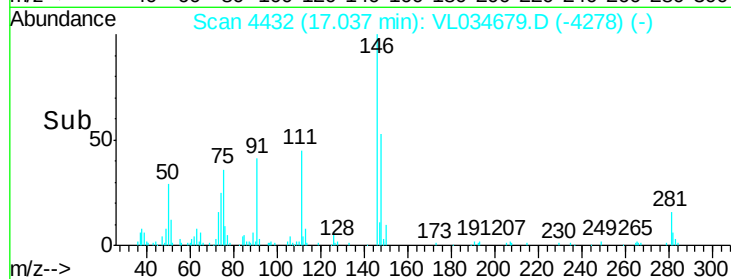
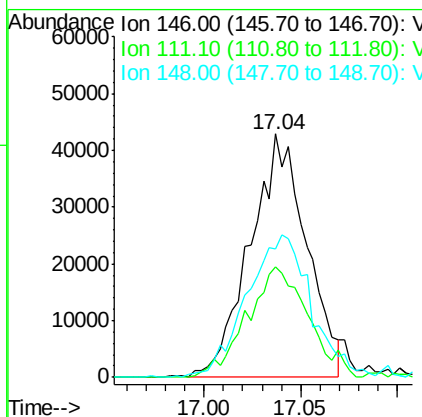
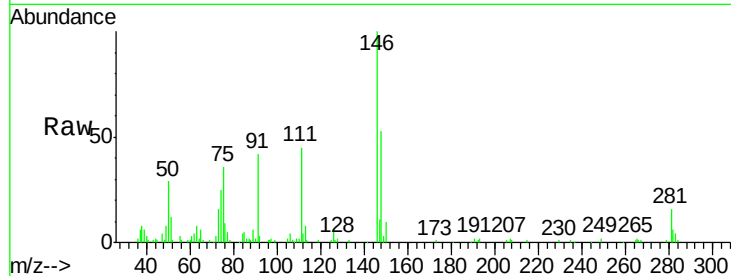
#75
 1,3-Dichlorobenzene
 Concen: 0.491 ppbv
 RT: 17.04 min Scan# 4432
 Delta R.T. -0.01 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.5	24.4	73.2
148	67.8	32.5	97.4

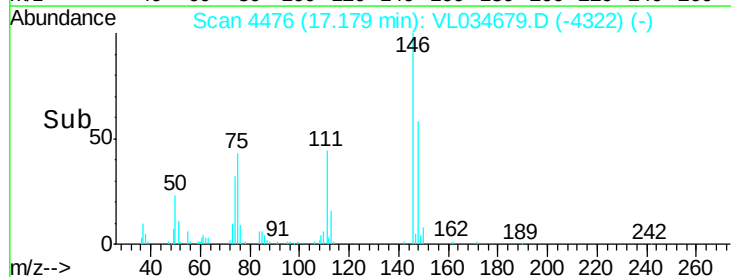
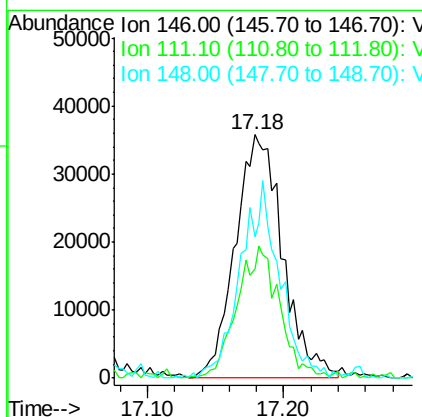
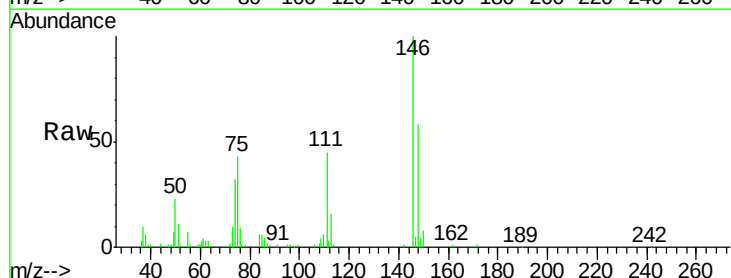
Manual Integrations
 APPROVED

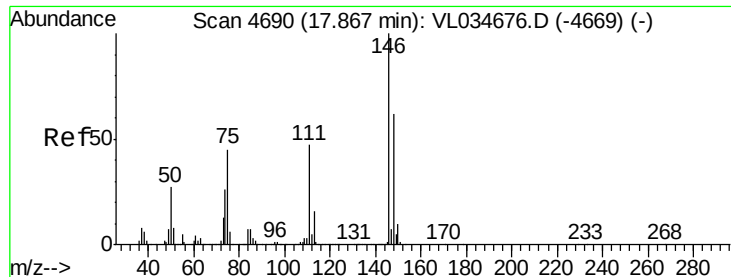
MMDadoda
 2/27/2020 5:19:24 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.494 ppbv m
 RT: 17.18 min Scan# 4476
 Delta R.T. -0.01 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.4	70.0#
148	0.0	31.9	95.5#





#77

1,2-Dichlorobenzene

Concen: 0.486 ppbv

RT: 17.86 min Scan# 4689

Delta R.T. -0.00 min

Lab File: VL034679.D

Acq: 26 Feb 2020 4:23

Instrument :

MSVOA_L

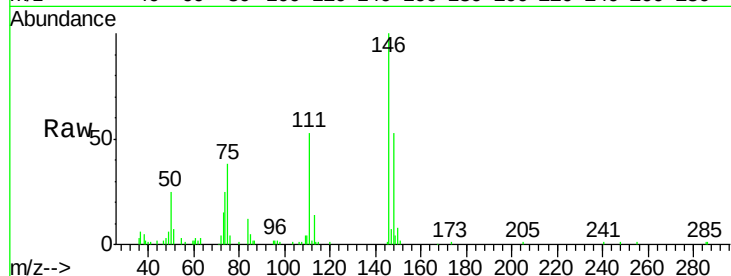
ClientSampleId :

VSTDIC0.5

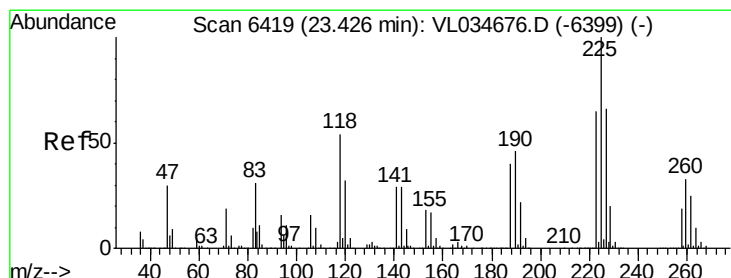
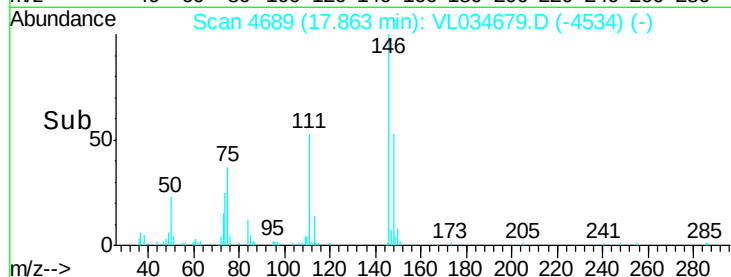
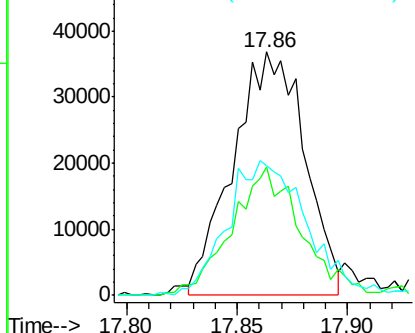
Tot Ion:	146	Resp:	82979
Ion Ratio	Lower	Upper	
146	100		
111	52.5	24.9	74.7
148	61.9	32.0	96.0

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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



#78

Hexachloro-1,3-Butadiene

Concen: 0.555 ppbv m

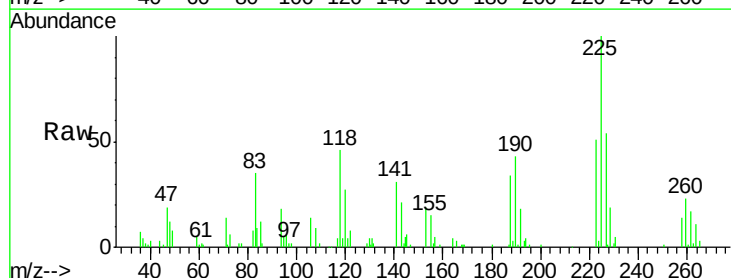
RT: 23.42 min Scan# 6417

Delta R.T. -0.01 min

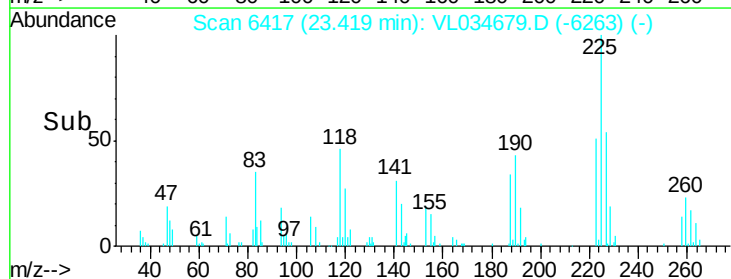
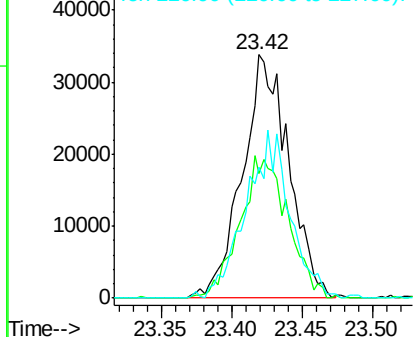
Lab File: VL034679.D

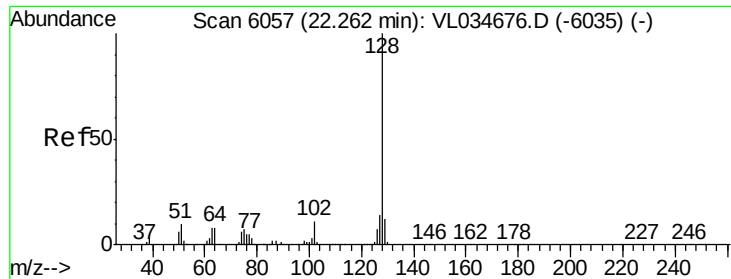
Acq: 26 Feb 2020 4:23

Tgt Ion:	225	Resp:	77519
Ion Ratio	Lower	Upper	
225	100		
223	60.0	51.3	76.9
227	0.0	51.3	76.9#



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





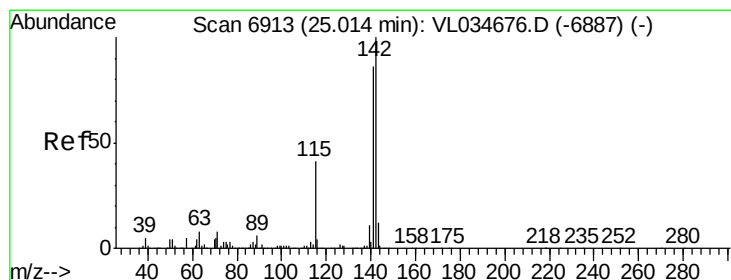
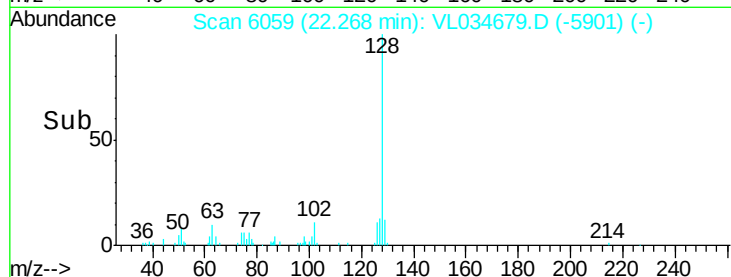
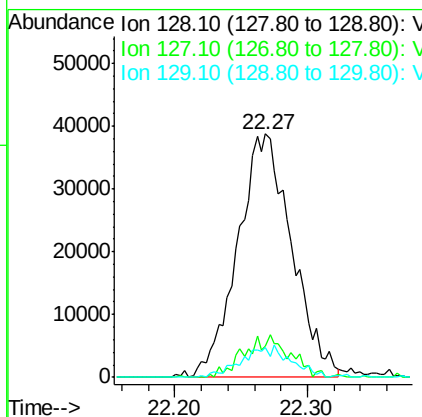
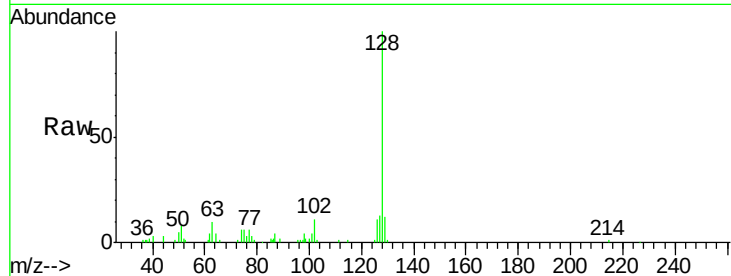
#79
Naphthalene
Concen: 0.476 ppbv m
RT: 22.27 min Scan# 6059
Delta R.T. 0.01 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	11.0	16.6
129	12.0	9.4	14.2

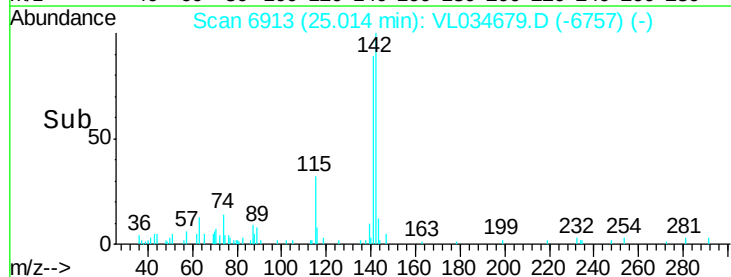
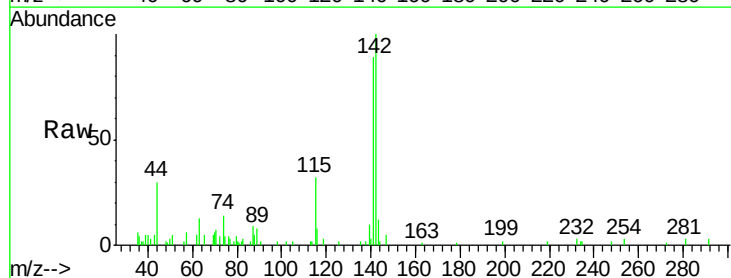
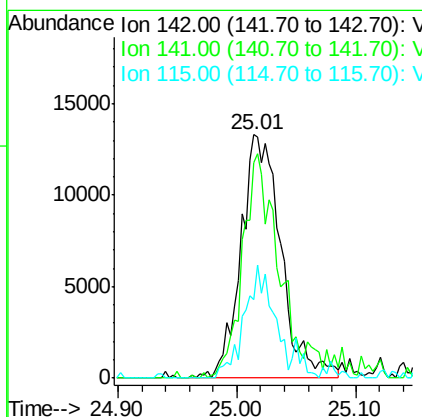
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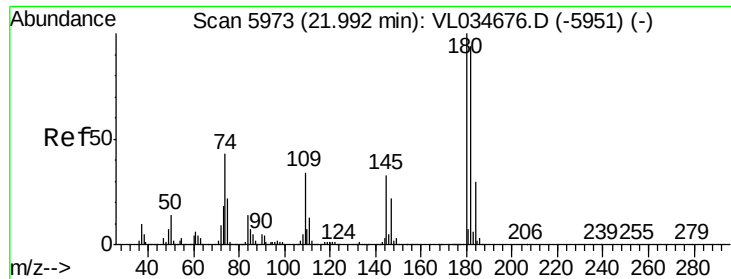
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#80
Naphthalene, 2-methyl-
Concen: 0.641 ppbv
RT: 25.01 min Scan# 6913
Delta R.T. 0.00 min
Lab File: VL034679.D
Acq: 26 Feb 2020 4:23

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.7	66.5	99.7
115	39.0	30.6	46.0





#81
 1,2,4-Trichlorobenzene
 Concen: 0.535 ppbv m
 RT: 22.00 min Scan# 5974
 Delta R.T. 0.00 min
 Lab File: VL034679.D
 Acq: 26 Feb 2020 4:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.5	114.7#
184	0.0	25.2	37.8#

Manual Integrations
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