

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051419\
 Data File : VL033685.D
 Acq On : 14 May 2019 10:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 5:40:58 AM

Quant Time: May 15 02:41:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1045023	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2418338	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2818234m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2161647	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2040157	8.324 ppbv	99
3) Chlorodifluoromethane	3.01	51	1159507	7.683 ppbv	99
4) Chloromethane	3.17	50	616638	7.859 ppbv	98
5) Vinyl Chloride	3.29	62	618674	8.110 ppbv	99
6) Bromomethane	3.51	94	396317	8.178 ppbv	96
7) Chloroethane	3.60	64	235931	8.520 ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1596815	7.915 ppbv	100
9) Propene	3.03	41	467054	8.118 ppbv	100
10) Heptane	8.24	43	1537157	10.826 ppbv	100
11) Trichlorofluoromethane	4.00	101	1931719	8.440 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1294262	8.412 ppbv	99
13) Ethanol	3.64	45	120961	7.004 ppbv	99
14) Bromoethene	3.79	108	502964	8.293 ppbv	98
15) Acetone	3.90	43	1192542	7.671 ppbv	99
16) 1,3-Butadiene	3.36	39	560172	8.402 ppbv	98
17) tert-Butyl alcohol	4.35	59	1075090	9.105 ppbv	100
18) 1,1-Dichloroethene	4.35	96	563846	8.488 ppbv	99
19) Isopropyl Alcohol	4.02	45	805658	8.435 ppbv	99
20) Methylene Chloride	4.41	84	479190	8.118 ppbv	95
21) Allyl Chloride	4.47	41	827599	8.795 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	587354	8.808 ppbv	97
23) Vinyl Acetate	5.15	43	1885249	9.332 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1303621	8.531 ppbv	100
25) Ethyl Acetate	5.76	43	2465309	9.747 ppbv	100
26) Hexane	5.78	57	1082254	9.954 ppbv	99
27) Carbon Disulfide	4.62	76	1436885	9.662 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1680078	9.175 ppbv	100
29) Chloroform	5.85	83	1860370	9.517 ppbv	99
30) Cyclohexane	7.24	84	912927	9.999 ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	1130186	10.449 ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1914284	9.483 ppbv	99
34) 2-Butanone	5.33	43	1473677	9.516 ppbv	99
35) Carbon Tetrachloride	7.13	117	2040589	10.267 ppbv	99
36) Benzene	7.00	78	2176592	10.037 ppbv	98
37) 1,2-Dichloroethane	6.41	62	1456073	9.624 ppbv	99
38) Trichloroethene	7.96	130	1023143	12.862 ppbv	96
39) 1,2-Dichloropropane	7.73	63	843867	10.441 ppbv	99
40) 1,4-Dioxane	7.95	88	341544	10.574 ppbv	# 1
41) Tetrahydrofuran	6.15	42	887315	11.088 ppbv	99
42) Bromodichloromethane	7.91	83	2242185	11.477 ppbv	96
43) Methyl Methacrylate	8.13	69	1010368	12.387 ppbv	99

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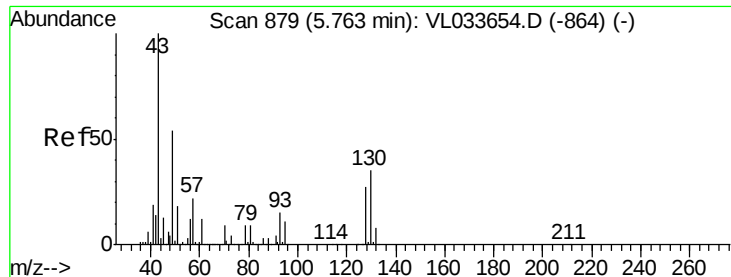
Manual Integrations
 APPROVED

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 5/16/2019 5:40:58 AM

Quant Time: May 15 02:41:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4187865	11.295	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1301089m	12.996	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	1538929	12.317	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	984031	10.602	ppbv	99
48) Dibromochloromethane	10.45	129	1761681	11.197	ppbv	100
49) Bromoform	13.20	173	1644538	12.033	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2659494	11.342	ppbv	100
51) 2-Hexanone	10.27	43	1988979	10.948	ppbv	100
52) Tetrachloroethene	11.37	164	876563	11.410	ppbv	98
53) Toluene	9.94	91	2668910	11.391	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1574110	11.259	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1240947	9.546	ppbv	99
57) Chlorobenzene	12.30	112	2150171	9.292	ppbv	99
58) Ethyl Benzene	12.86	91	3845742	10.464	ppbv	99
59) m/p-Xylene	13.15	91	6404876m	19.786	ppbv	
60) o-Xylene	13.85	91	3224951	9.844	ppbv	100
61) Styrene	13.68	104	2400950	11.006	ppbv	99
62) Isopropylbenzene	14.82	105	4422539	9.887	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2221222	9.316	ppbv	99
64) n-propylbenzene	15.72	120	1138157	9.846	ppbv	99
65) tert-Butylbenzene	16.90	119	4027566	9.816	ppbv	99
66) Benzyl Chloride	17.15	91	2353777	12.610	ppbv	100
67) sec-Butylbenzene	17.45	105	5589224	9.763	ppbv	100
69) p-Isopropyltoluene	17.81	119	4383879	9.294	ppbv	100
70) n-Butylbenzene	18.71	91	4956931	9.910	ppbv	100
71) 2-Chlorotoluene	15.61	91	3365204	10.183	ppbv	100
72) 4-Ethyltoluene	16.00	105	3731797	9.691	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3546803	9.526	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	3870290	9.352	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	2276896	9.109	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2248458	9.478	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2017373	8.711	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1296439	7.064	ppbv	100
79) Naphthalene	22.41	128	3296018	8.723	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1185549	8.299	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1850505m	8.430	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1045023

Ion Ratio Lower Upper

49 100

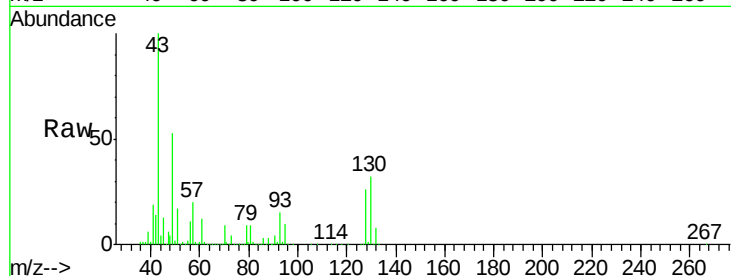
128 49.5 24.8 74.3

130 63.8 32.1 96.5

Manual Integrations
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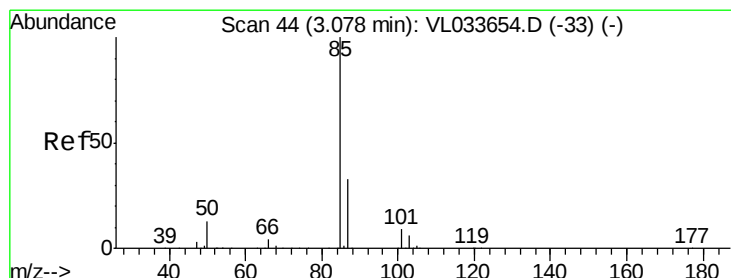
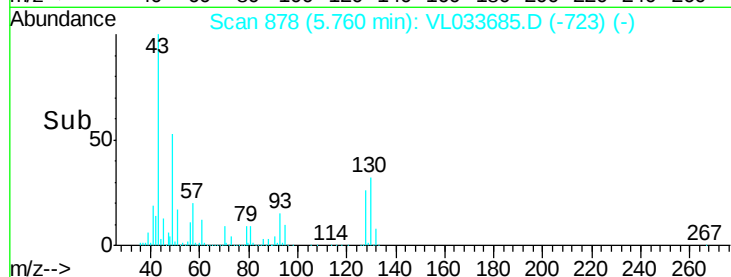
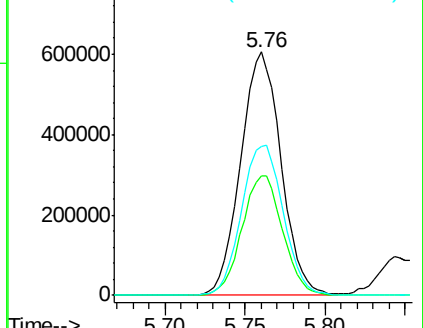
5/16/2019 5:40:58 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.324 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033685.D

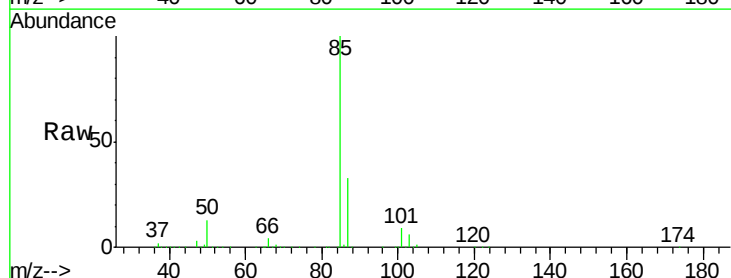
Acq: 14 May 2019 10:03

Tgt Ion: 85 Resp: 2040157

Ion Ratio Lower Upper

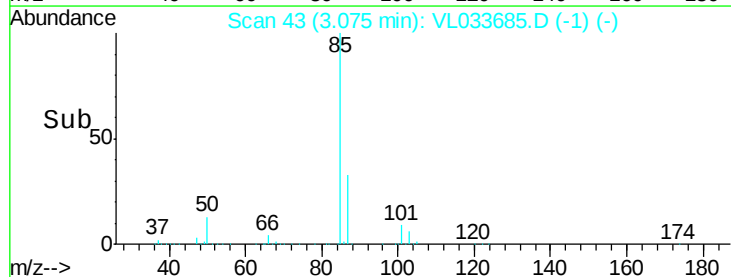
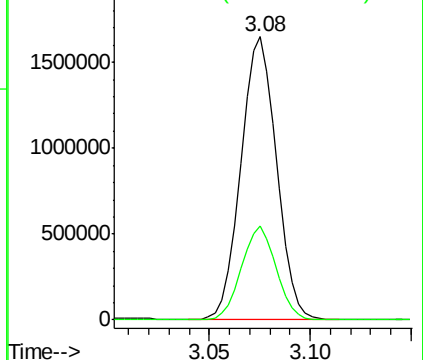
85 100

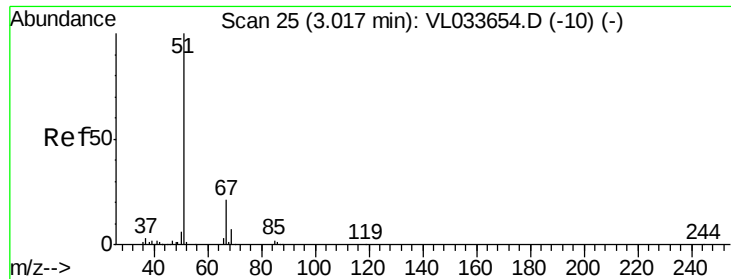
87 33.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 7.683 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tot Ion: 51 Resp: 1159507

Ion Ratio Lower Upper

51 100

67 20.1 15.7 23.5

Instrument :

MSVOA_L

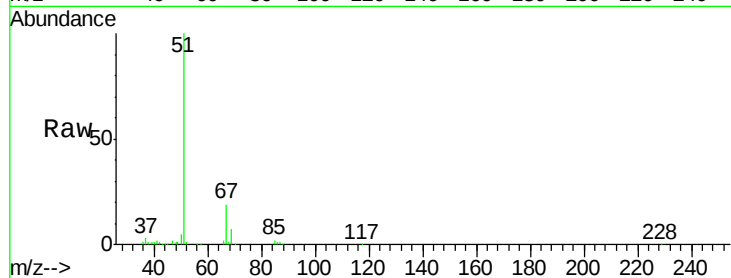
ClientSampleId :

VSTDCCC010

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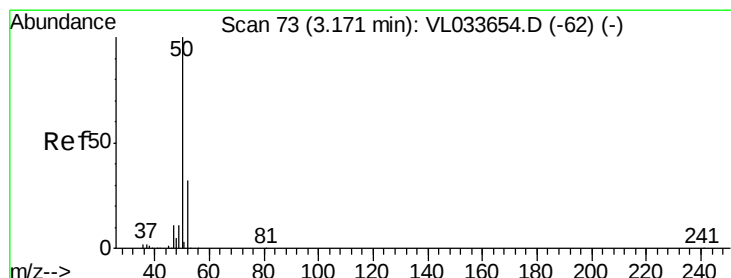
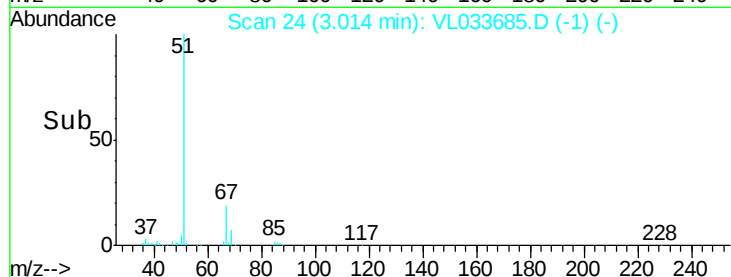
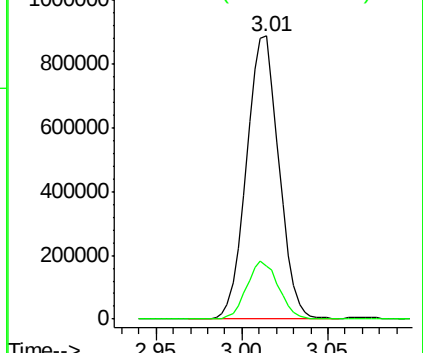
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 7.859 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033685.D

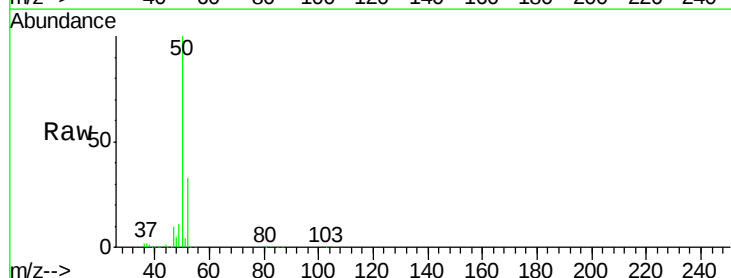
Acq: 14 May 2019 10:03

Tgt Ion: 50 Resp: 616638

Ion Ratio Lower Upper

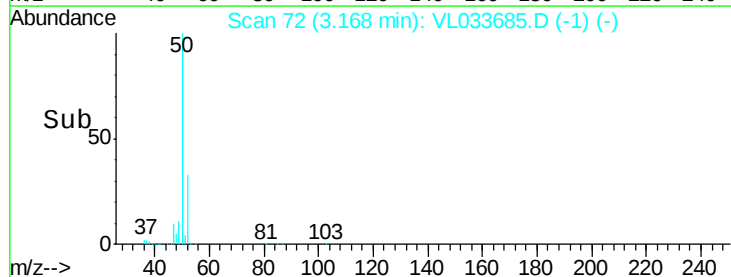
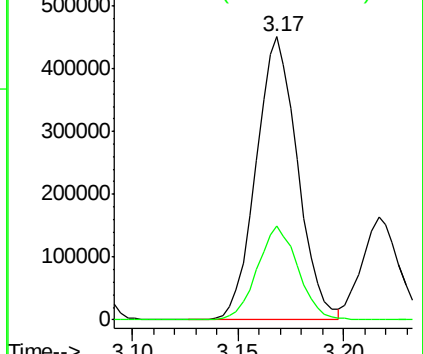
50 100

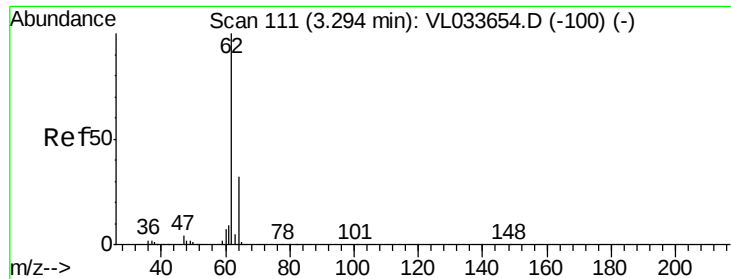
52 33.2 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.110 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 618674

Ion Ratio Lower Upper

62 100

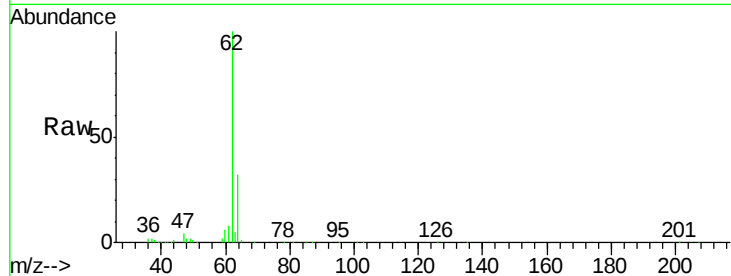
64 31.5 25.6 38.4

Manual Integrations

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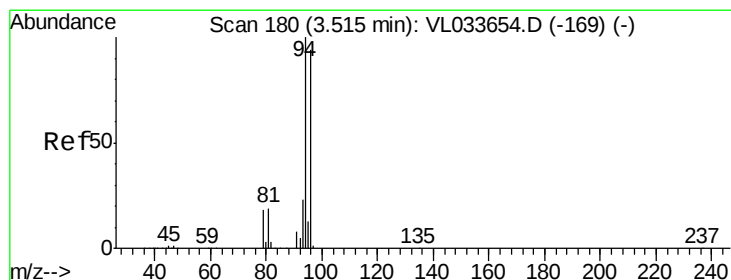
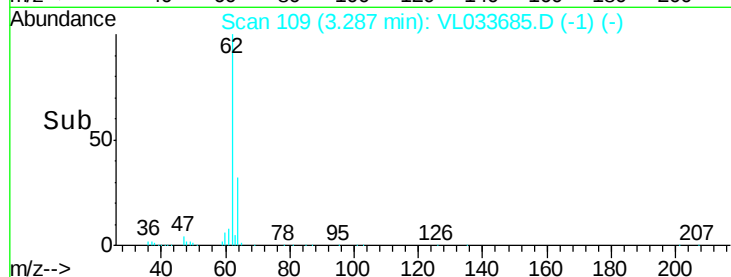
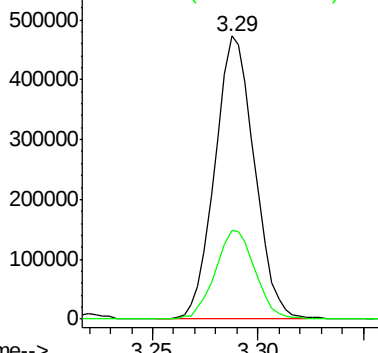
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.178 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033685.D

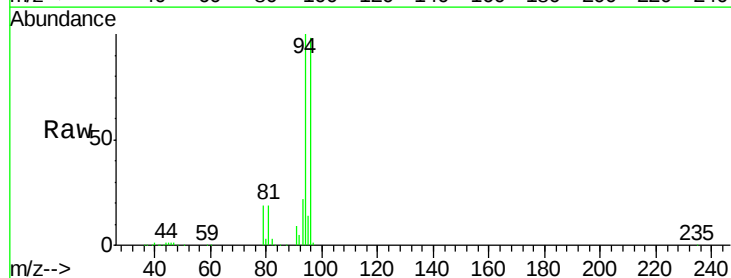
Acq: 14 May 2019 10:03

Tgt Ion: 94 Resp: 396317

Ion Ratio Lower Upper

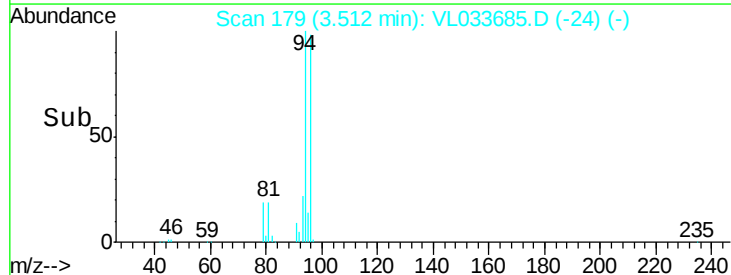
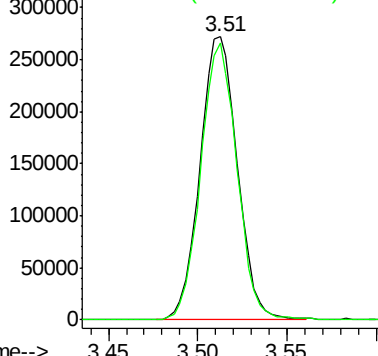
94 100

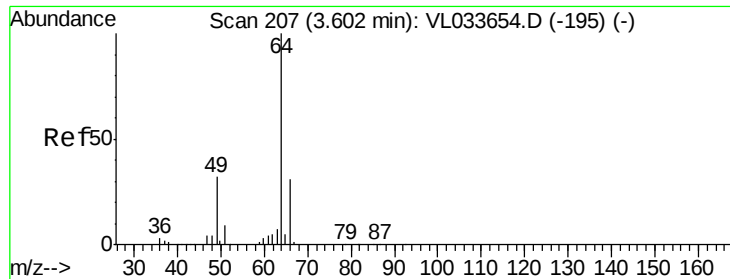
96 98.0 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.520 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 235931

Ion Ratio Lower Upper

64 100

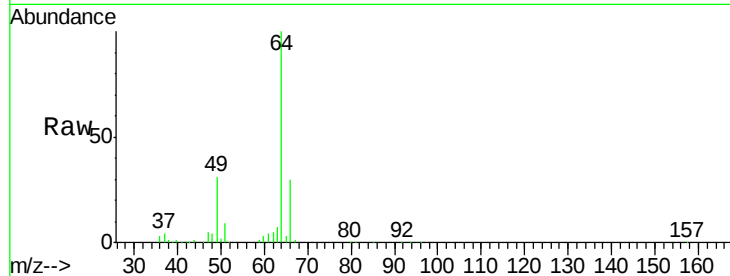
66 30.2 25.1 37.7

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

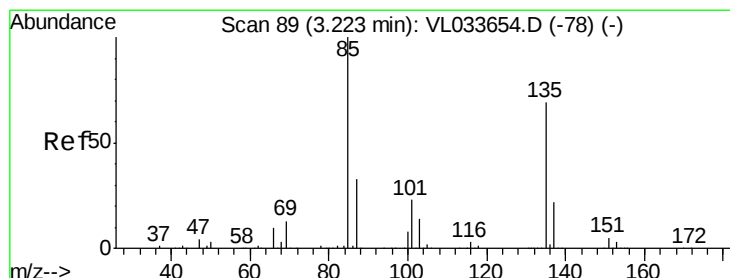
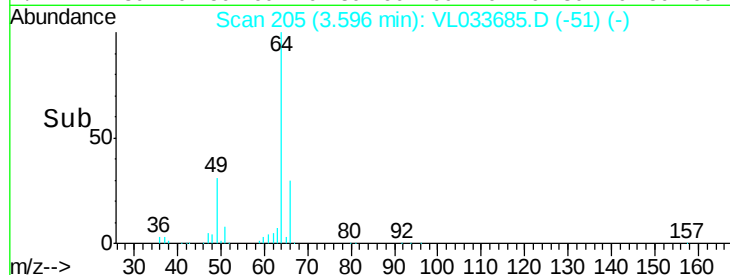
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 7.915 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033685.D

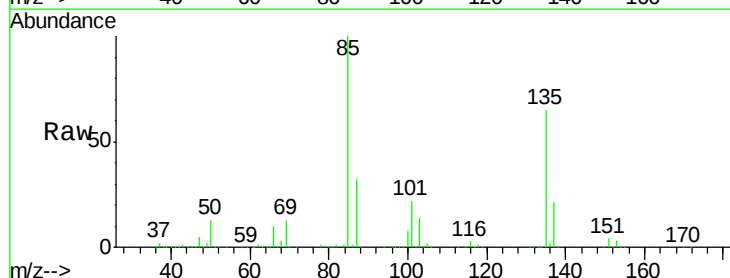
Acq: 14 May 2019 10:03

Tgt Ion: 85 Resp: 1596815

Ion Ratio Lower Upper

85 100

135 67.9 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

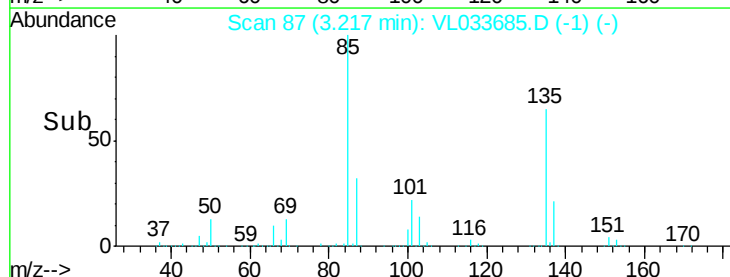
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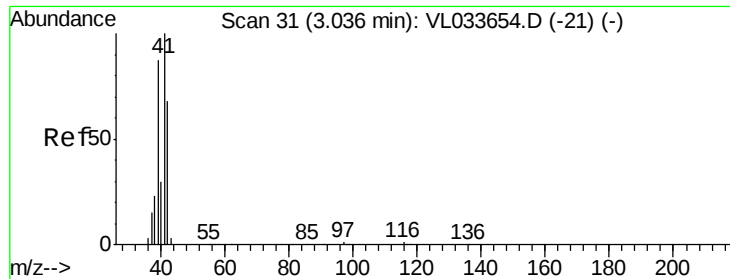
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Time-->





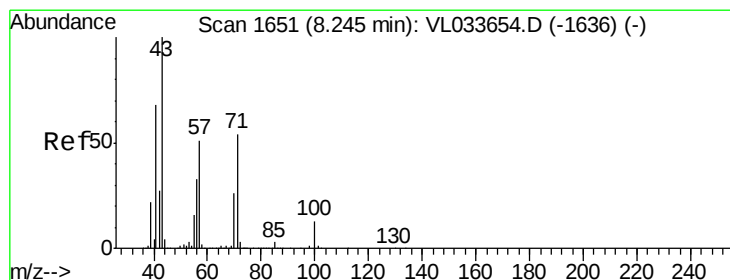
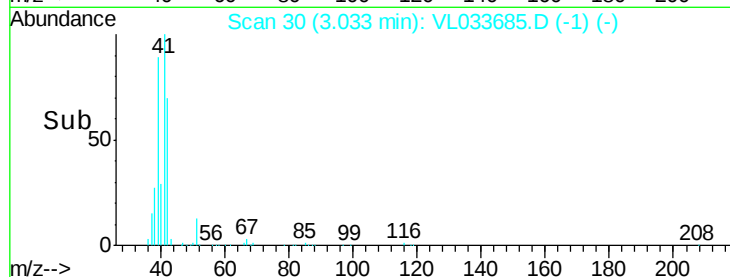
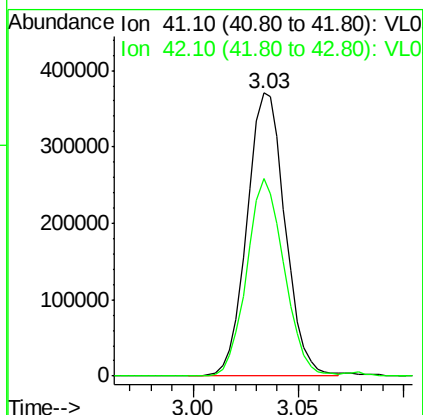
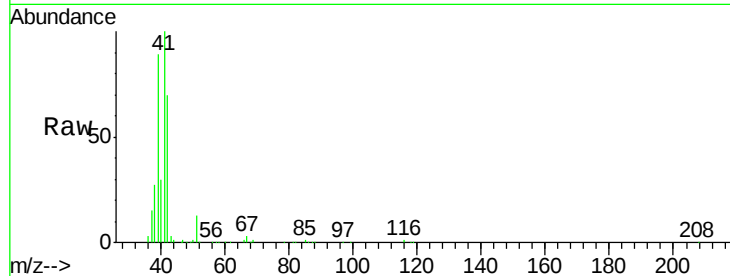
#9
 Propene
 Concen: 8.118 ppbv
 RT: 3.03 min Scan# 30
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 41 Resp: 467054
 Ion Ratio Lower Upper
 41 100
 42 69.5 55.6 83.4

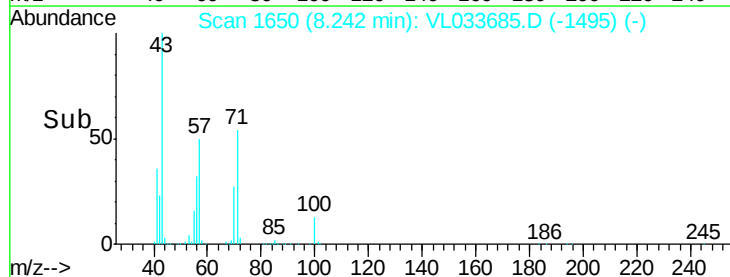
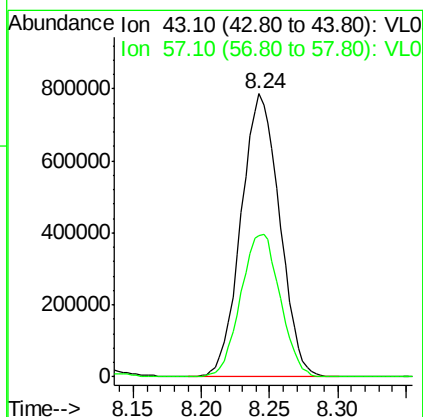
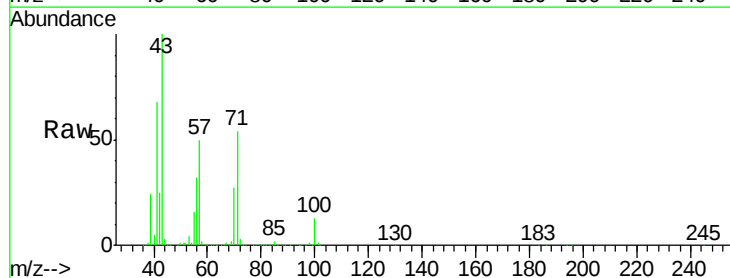
Manual Integrations
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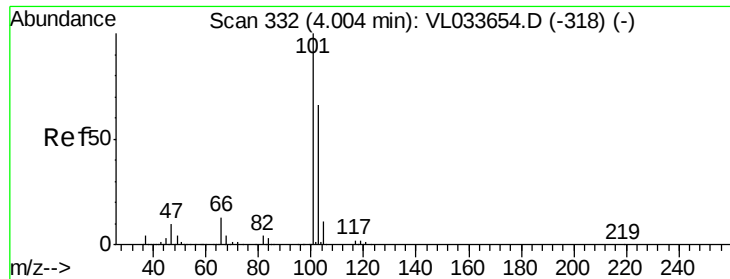
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#10
 Heptane
 Concen: 10.826 ppbv
 RT: 8.24 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion: 43 Resp: 1537157
 Ion Ratio Lower Upper
 43 100
 57 51.9 41.8 62.6





#11

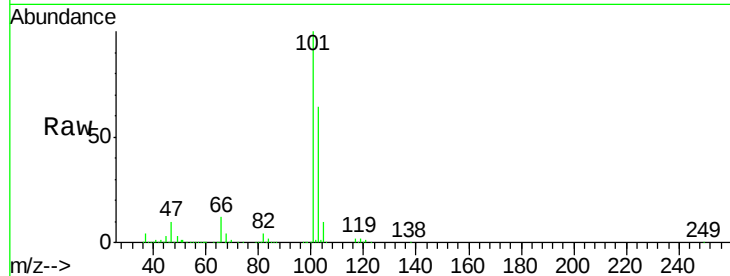
Trichlorofluoromethane
Concen: 8.440 ppbv
RT: 4.00 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

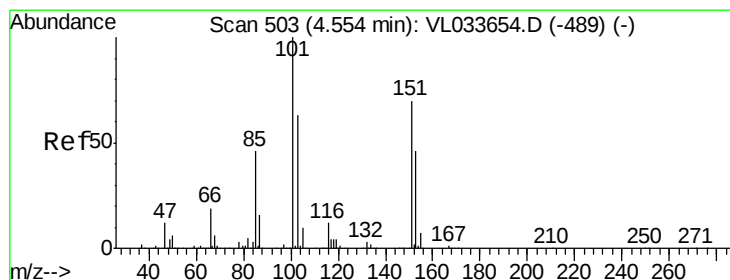
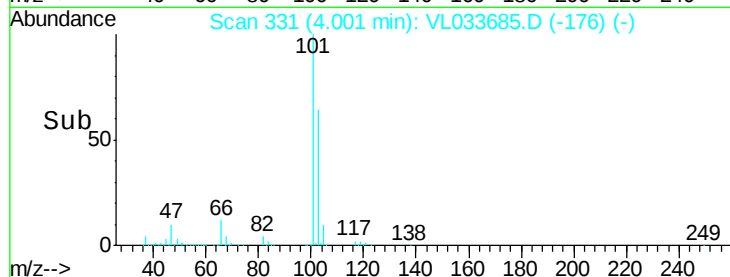
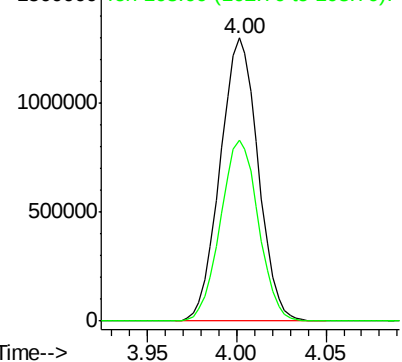
Tot Ion:101 Resp: 1931719
Ion Ratio Lower Upper
101 100
103 63.9 52.7 79.1

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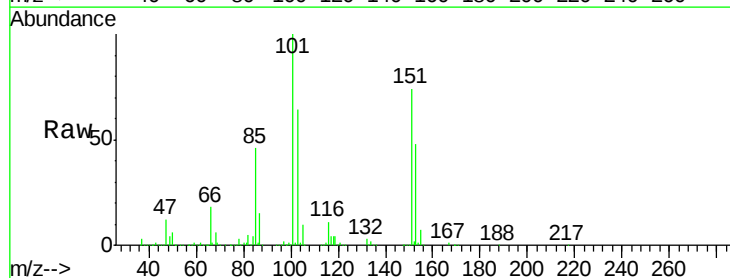
Abundance Ion 101.00 (100.70 to 101.70): V
1500000 Ion 103.00 (102.70 to 103.70): V



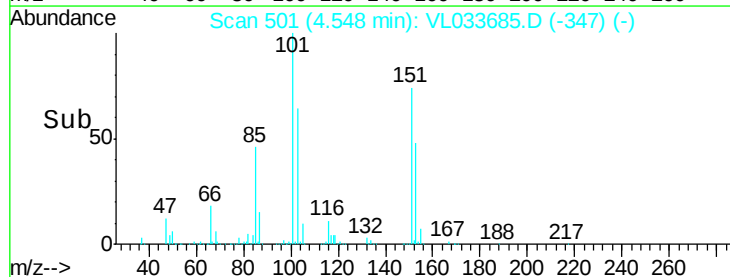
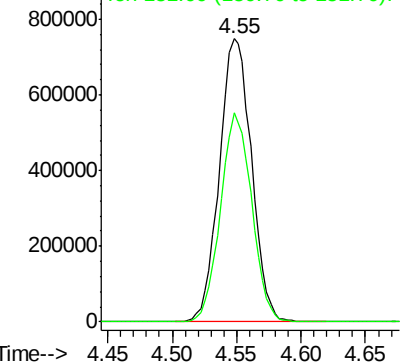
#12

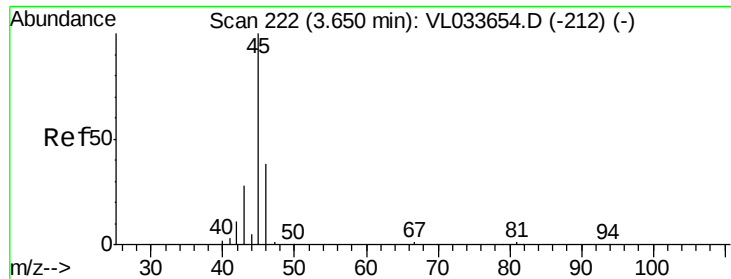
1,1,2-Trichlorotrifluoroethane
Concen: 8.412 ppbv
RT: 4.55 min Scan# 501
Delta R.T. -0.01 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion:101 Resp: 1294262
Ion Ratio Lower Upper
101 100
151 72.0 58.0 87.0



Abundance Ion 101.00 (100.70 to 101.70): V
800000 Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.004 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 120961

Ion Ratio Lower Upper

45 100

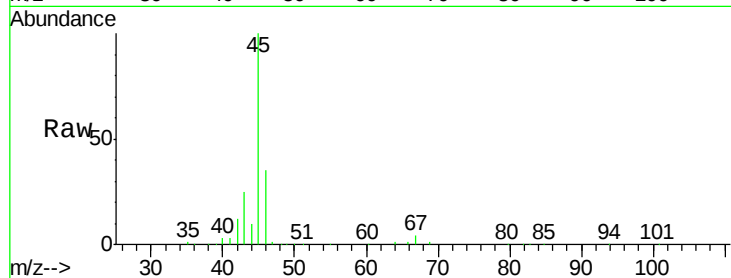
46 36.7 14.9 59.7

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.64

80000

60000

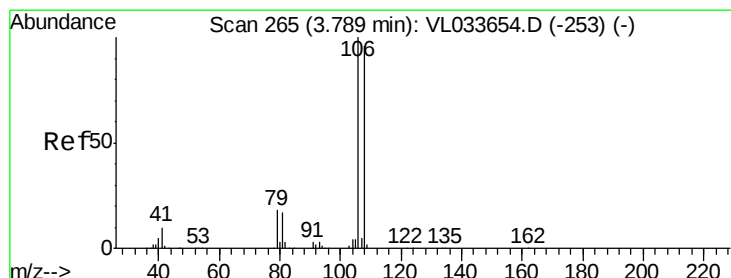
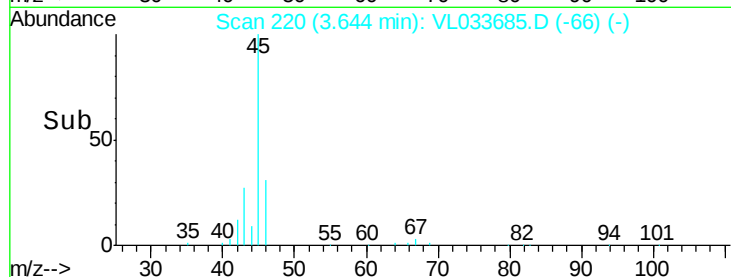
40000

20000

0

Time-->

3.60 3.65 3.70



#14

Bromoethene

Concen: 8.293 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

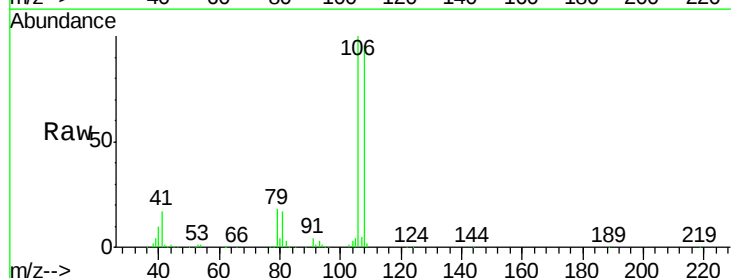
Tgt Ion: 108 Resp: 502964

Ion Ratio Lower Upper

108 100

106 108.6 85.7 128.5

79 20.3 15.2 22.8



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

500000

400000

300000

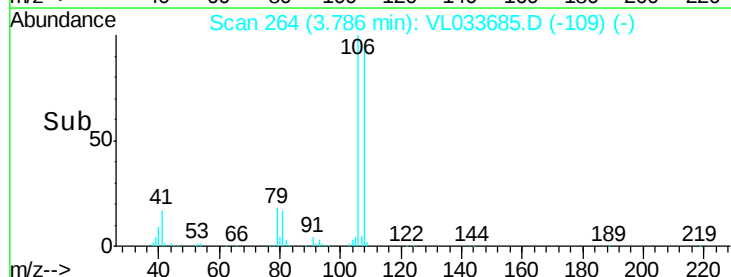
200000

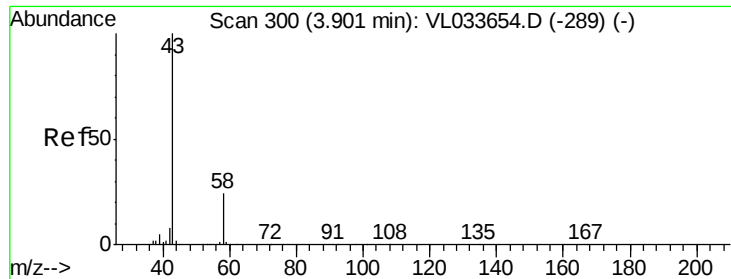
100000

0

Time-->

3.75 3.80 3.85





#15

Acetone

Concen: 7.671 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1192542

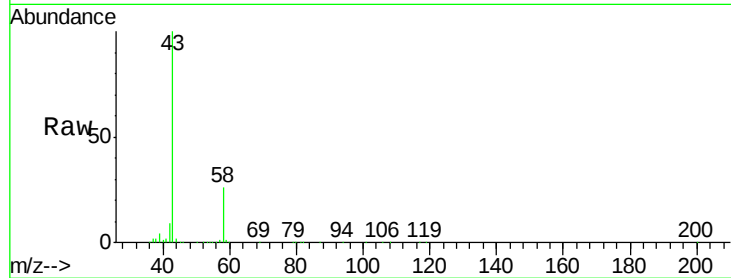
Ion Ratio Lower Upper

43 100

58 26.6 20.9 31.3

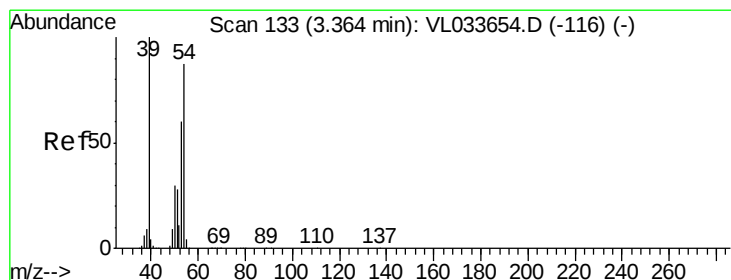
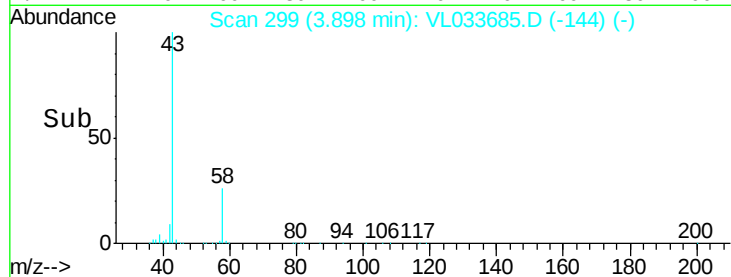
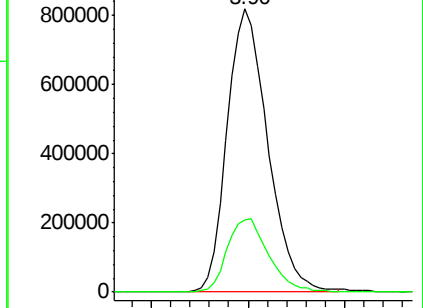
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 8.402 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033685.D

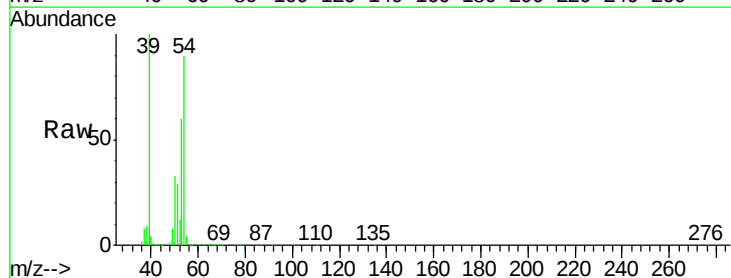
Acq: 14 May 2019 10:03

Tgt Ion: 39 Resp: 560172

Ion Ratio Lower Upper

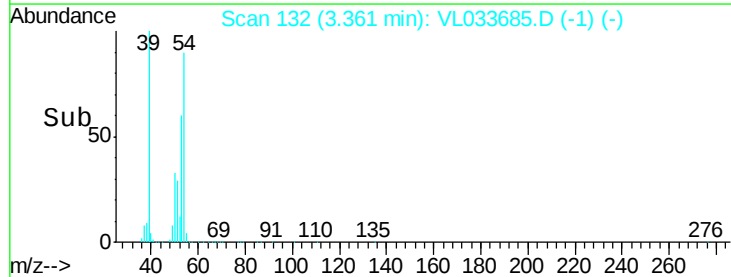
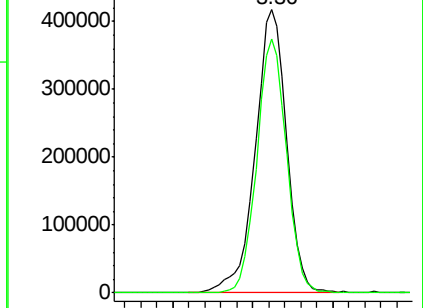
39 100

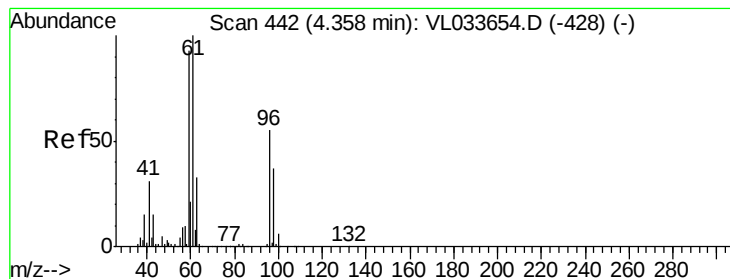
54 85.1 67.0 100.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

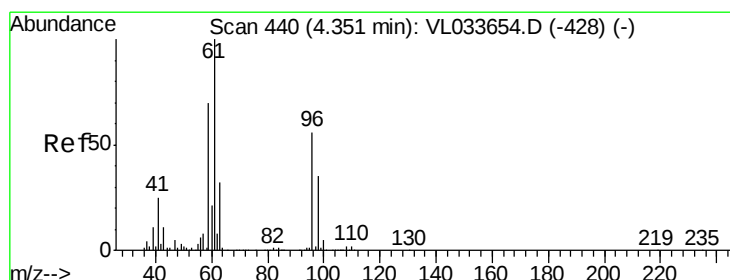
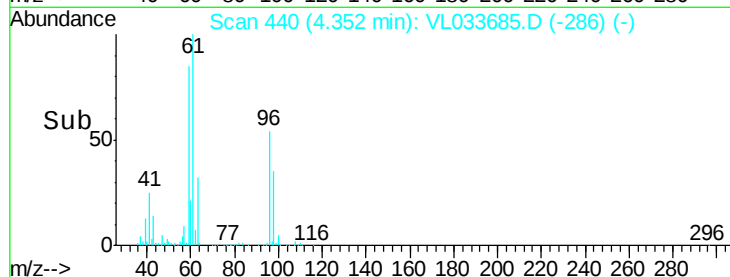
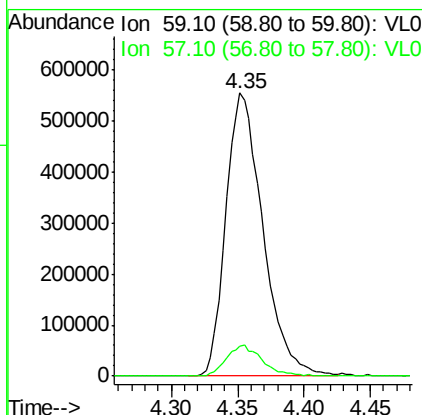
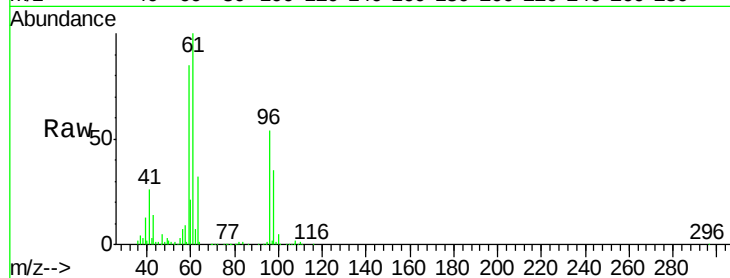
tert-Butyl alcohol
 Concen: 9.105 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.01 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 59 Resp: 1075090
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.4 12.6

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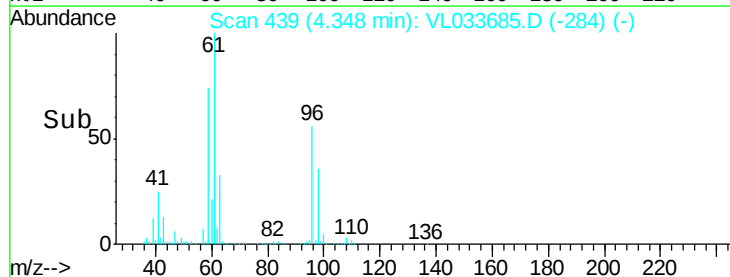
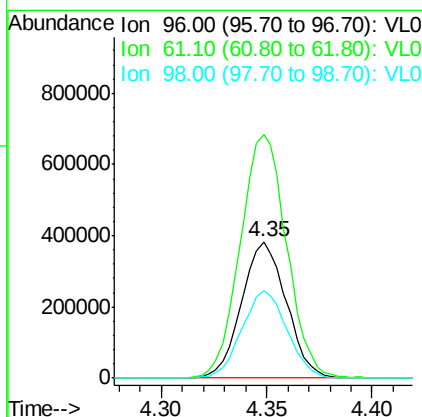
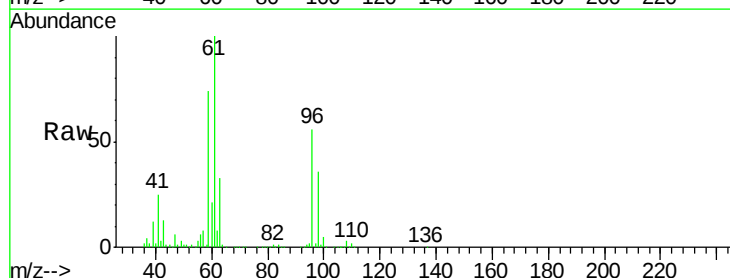
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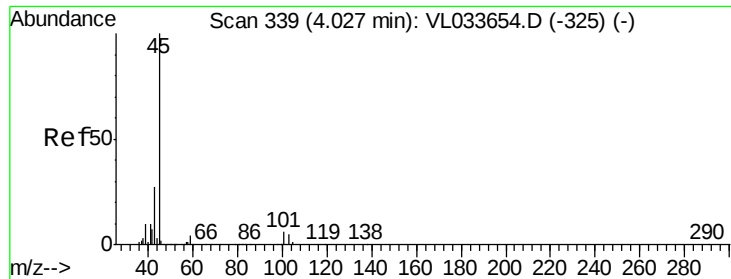


#18

1,1-Dichloroethene
 Concen: 8.488 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion: 96 Resp: 563846
 Ion Ratio Lower Upper
 96 100
 61 177.9 143.4 215.0
 98 64.1 50.4 75.6





#19

Isopropyl Alcohol

Concen: 8.435 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 805658

Ion Ratio Lower Upper

45 100

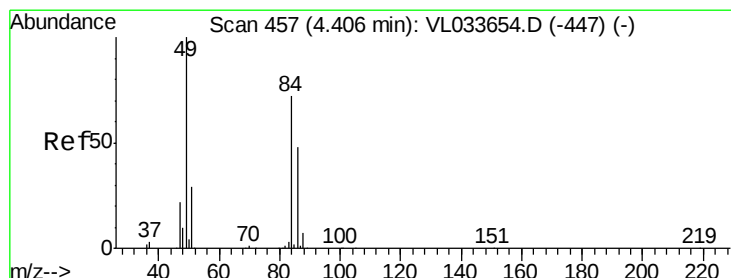
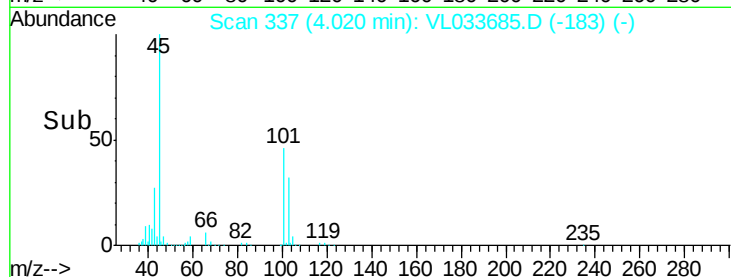
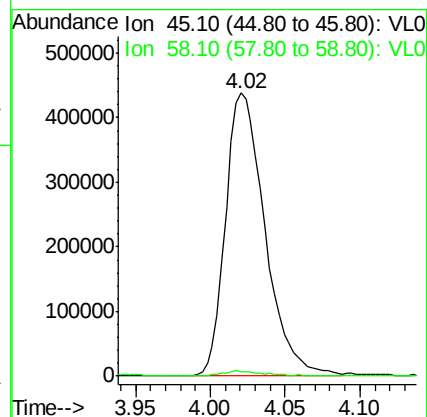
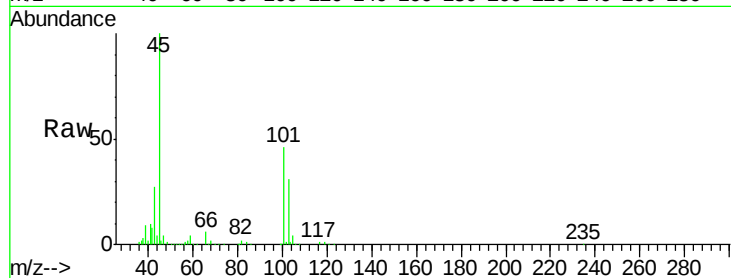
58 2.2 2.0 3.0

Manual Integrations

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#20

Methylene Chloride

Concen: 8.118 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tgt Ion: 84 Resp: 479190

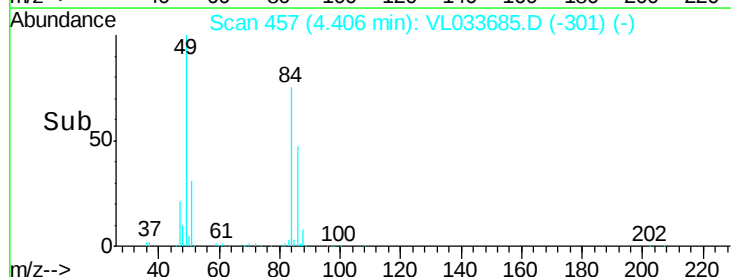
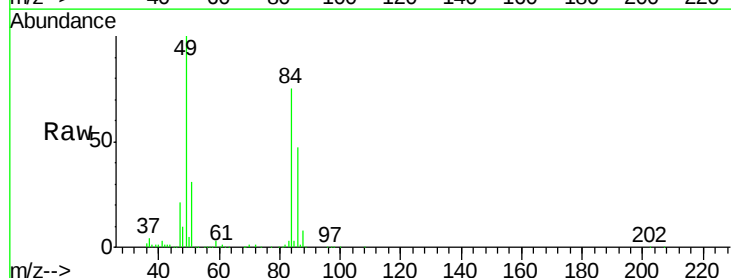
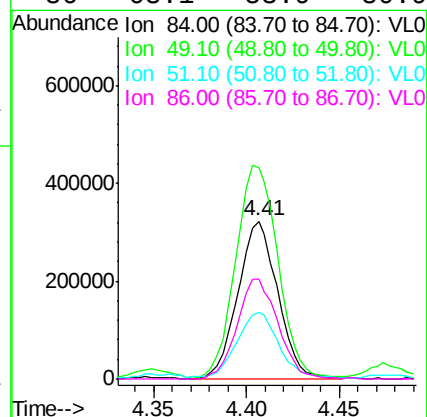
Ion Ratio Lower Upper

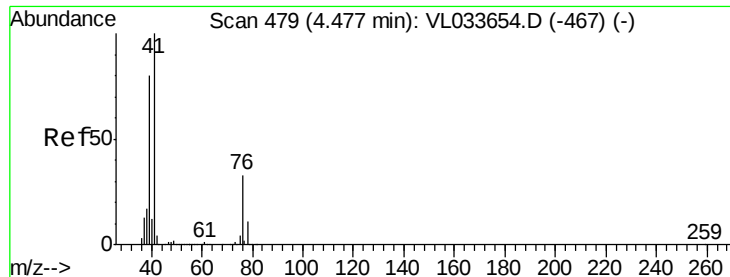
84 100

49 133.0 111.8 167.6

51 41.4 32.3 48.5

86 63.1 53.9 80.9





#21

Allvl Chloride

Concen: 8.795 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

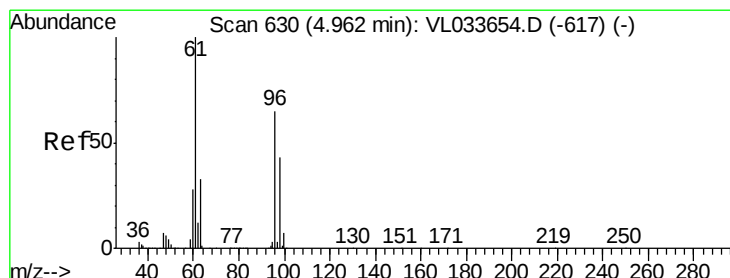
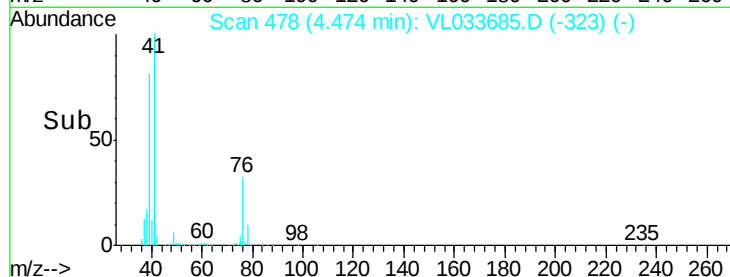
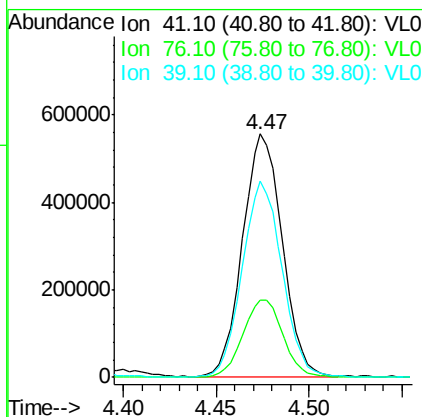
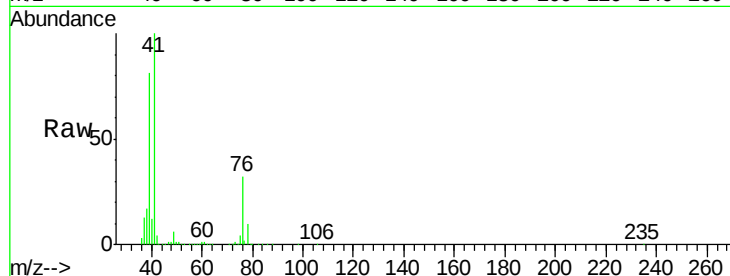
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	827599
Ion Ratio	Lower	Upper	
41	100		
76	32.4	26.0	39.0
39	81.3	64.4	96.6

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#22

trans-1,2-Dichloroethene

Concen: 8.808 ppbv

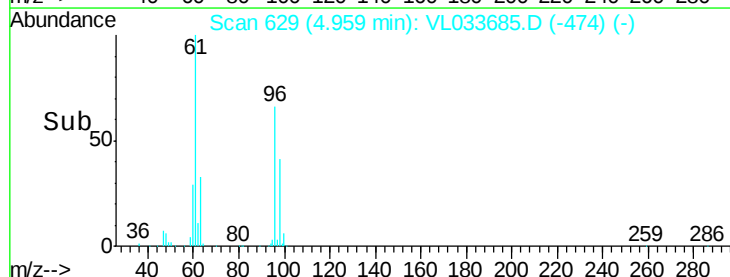
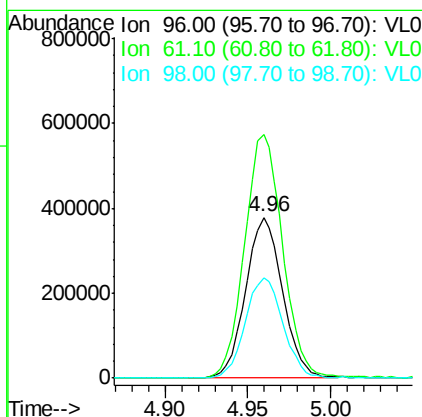
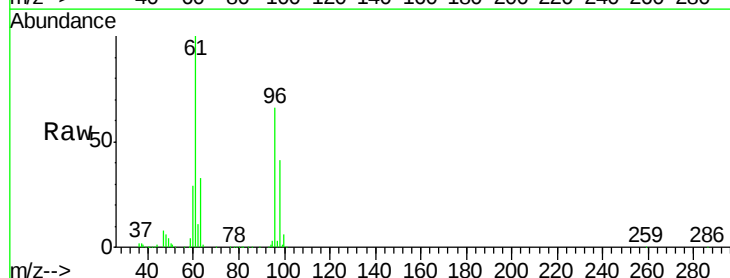
RT: 4.96 min Scan# 629

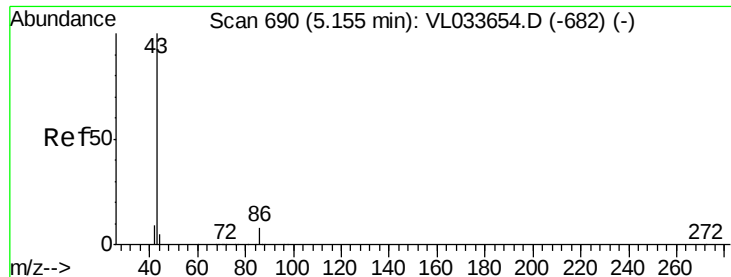
Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tgt Ion:	96	Resp:	587354
Ion Ratio	Lower	Upper	
96	100		
61	151.5	123.1	184.7
98	62.3	52.6	79.0





#23

Vinyl Acetate

Concen: 9.332 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1885249

Ion Ratio Lower Upper

43 100

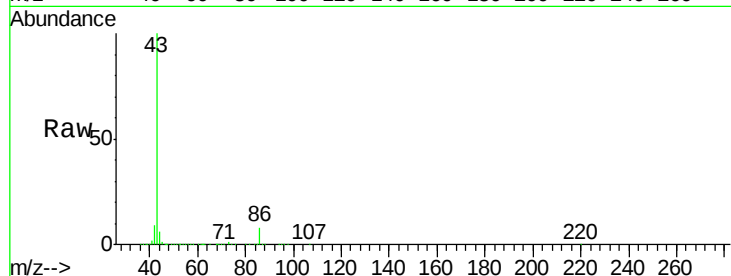
86 7.6 6.0 9.0

42 9.4 8.0 12.0

44 5.6 3.9 5.9

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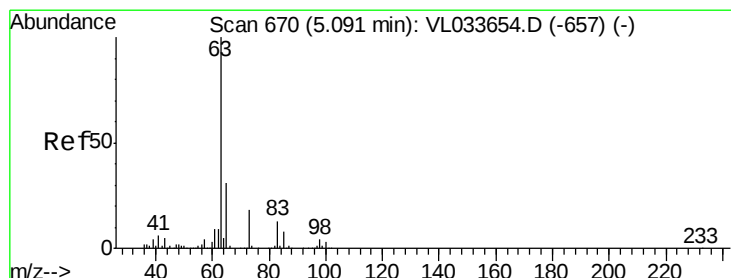
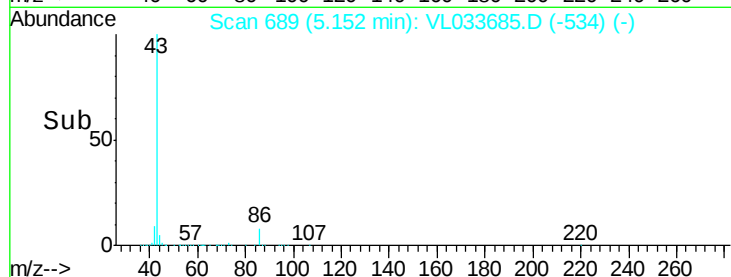
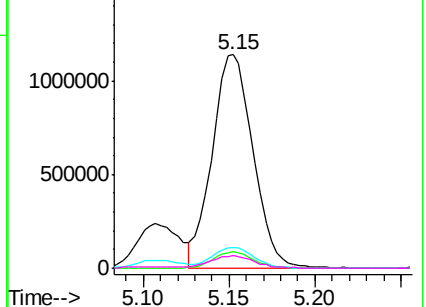


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.531 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

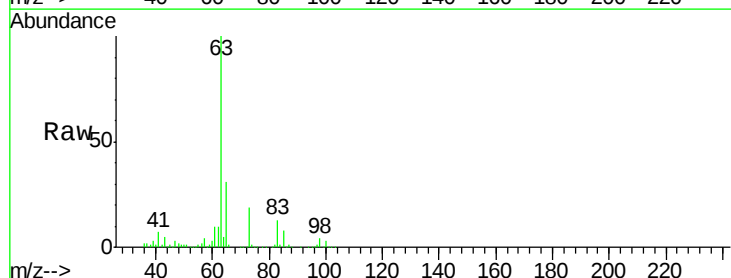
Tgt Ion: 63 Resp: 1303621

Ion Ratio Lower Upper

63 100

98 3.9 2.1 6.2

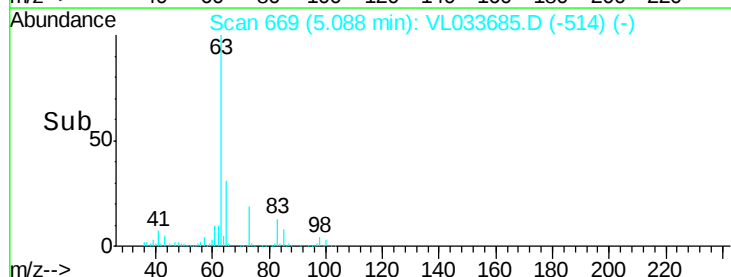
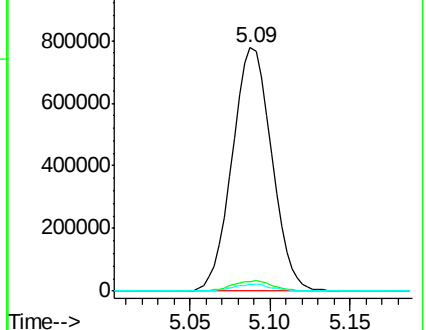
100 2.8 1.5 4.4

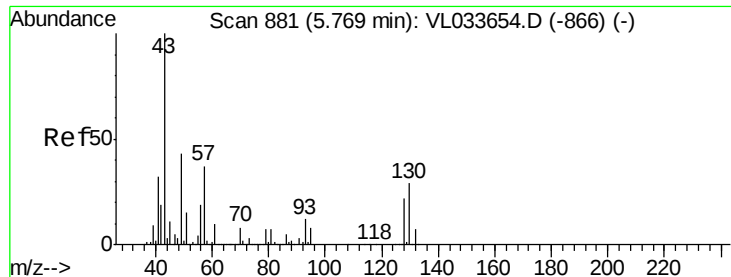


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





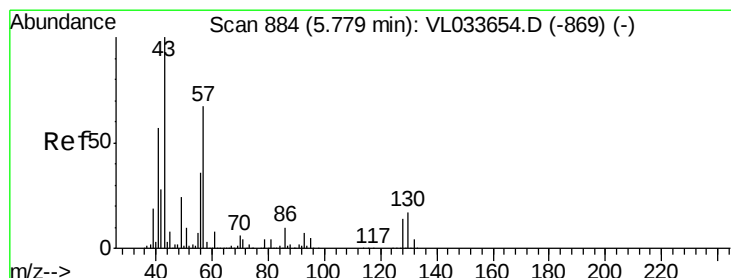
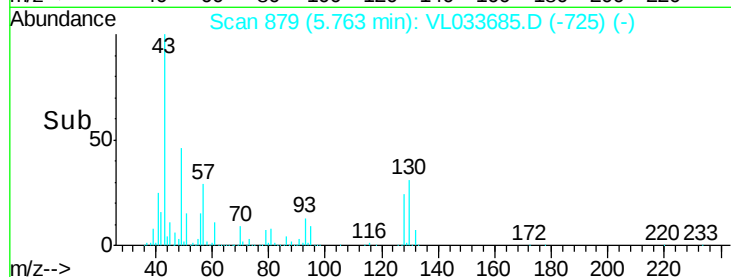
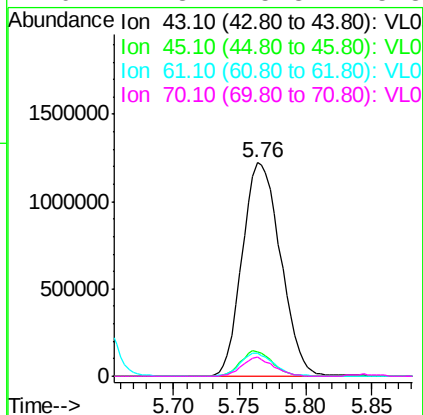
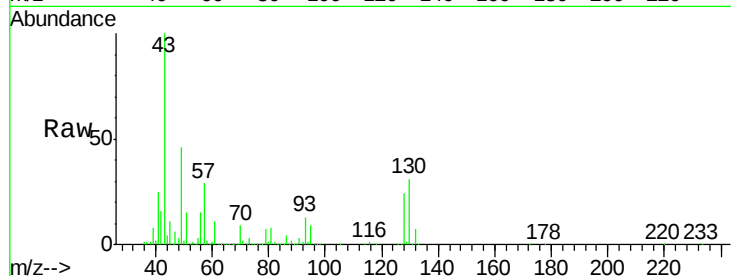
#25
Ethyl Acetate
Concen: 9.747 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.01 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.0	12.0
61	9.4	7.5	11.3
70	7.3	5.8	8.8

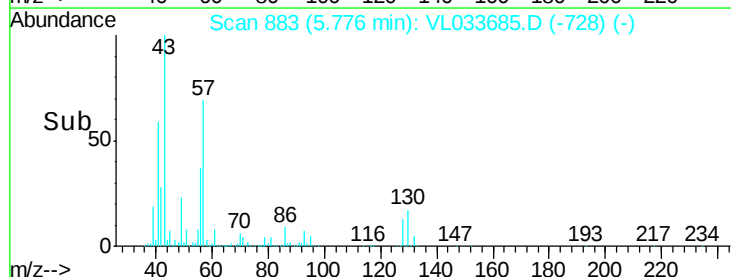
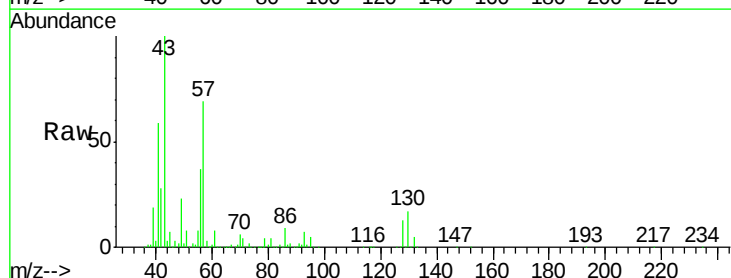
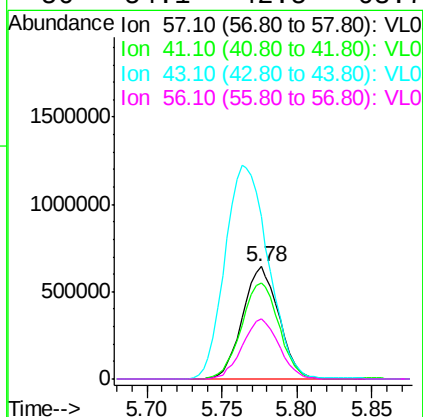
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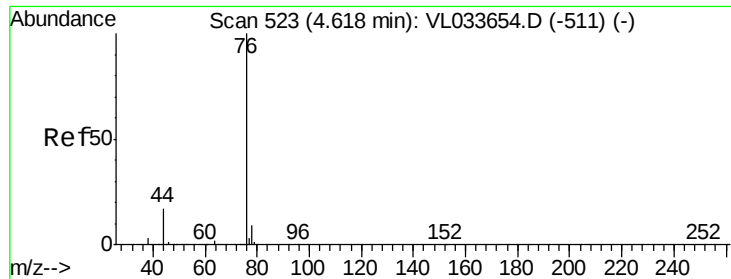
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#26
Hexane
Concen: 9.954 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	88.7	69.7	104.5
43	228.9	181.9	272.9
56	54.1	42.5	63.7





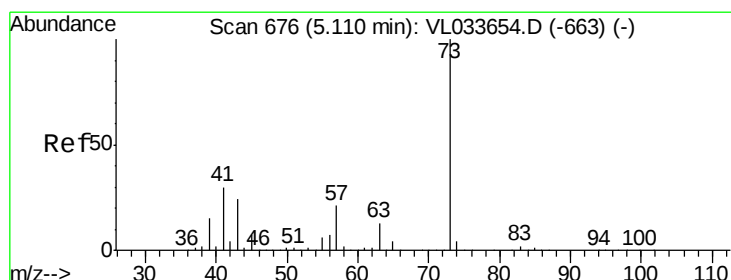
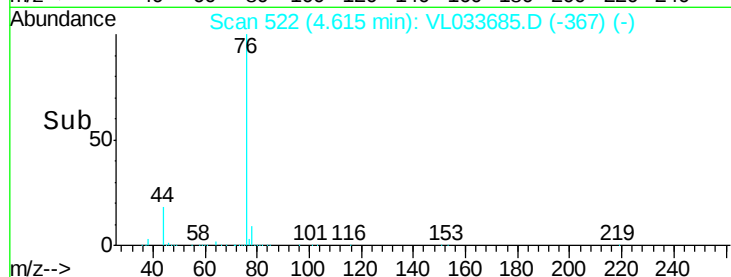
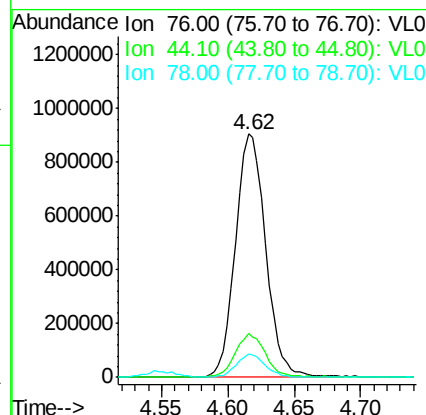
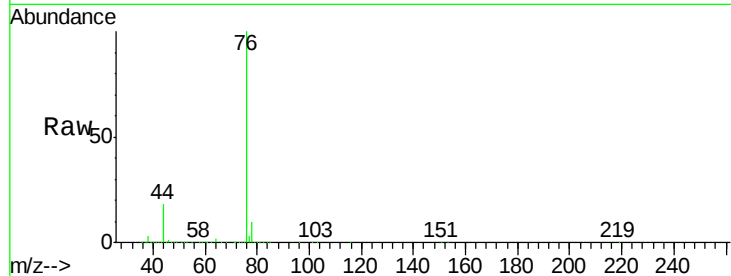
#27
Carbon Disulfide
Concen: 9.662 ppbv
RT: 4.62 min Scan# 522
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.5	14.4	21.6
78	9.0	7.4	11.2

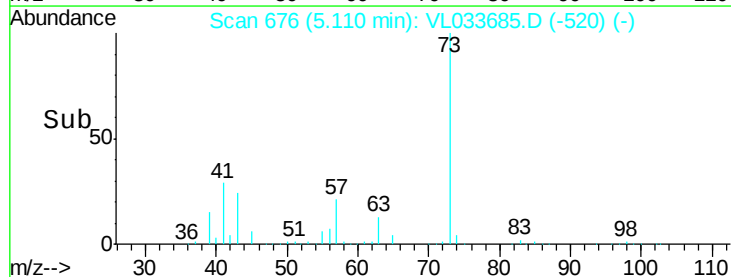
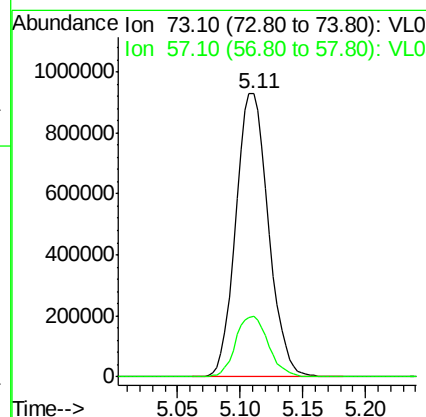
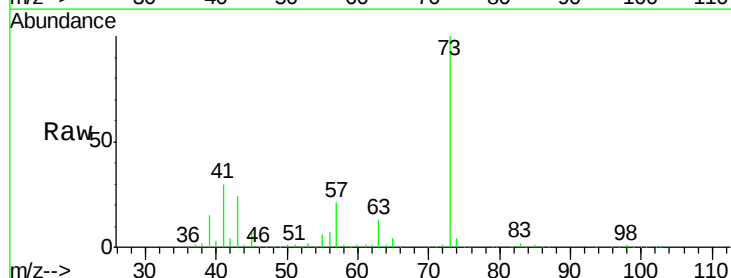
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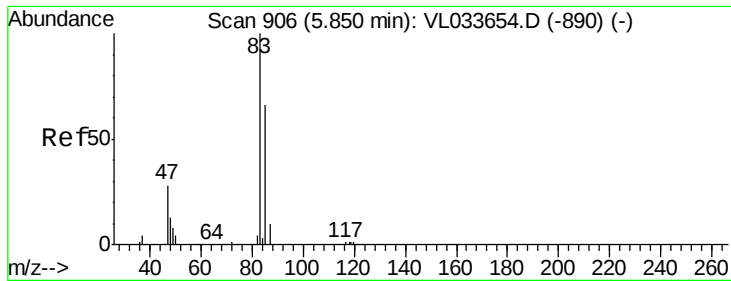
MMDadoda
5/16/2019 5:40:58 AM



#28
Methyl tert-Butyl Ether
Concen: 9.175 ppbv
RT: 5.11 min Scan# 676
Delta R.T. 0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.0





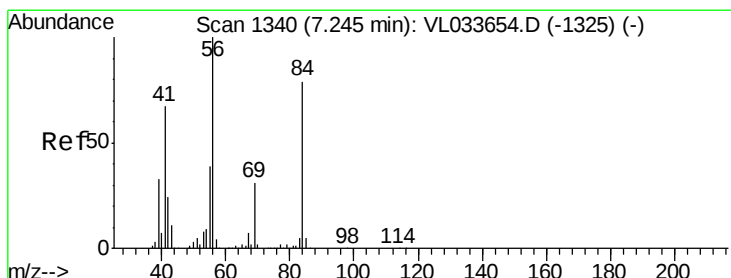
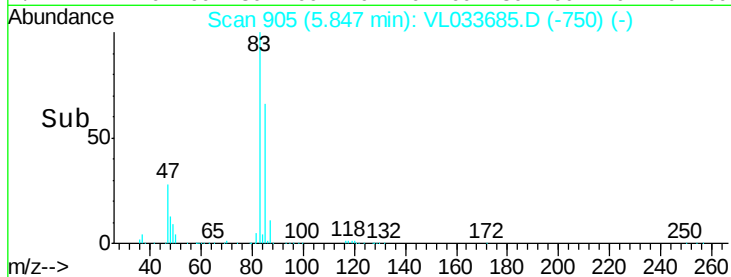
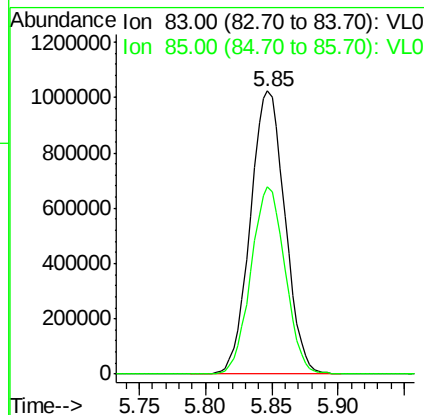
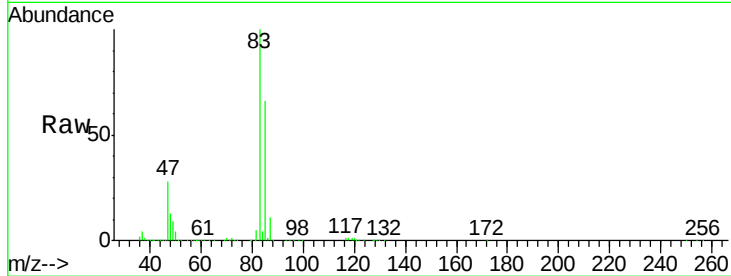
#29
Chloroform
Concen: 9.517 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1860370
Ion Ratio Lower Upper
83 100
85 66.2 52.6 78.8

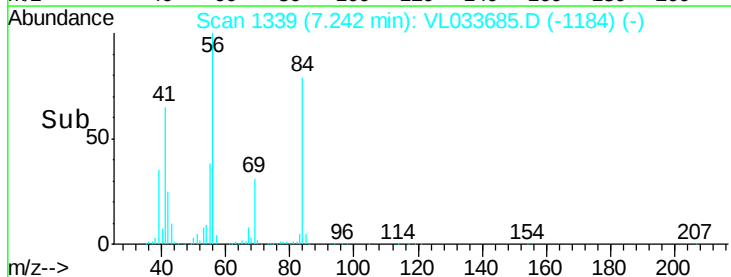
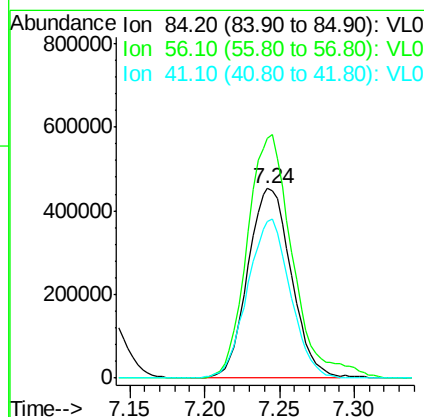
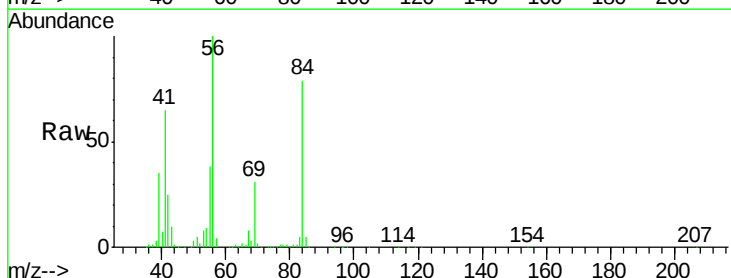
Manual Integrations
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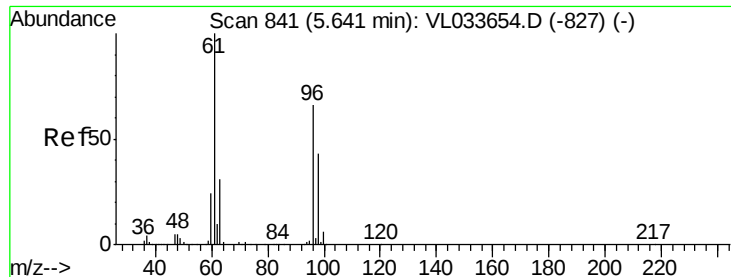
MMDadoda
5/16/2019 5:40:58 AM



#30
Cyclohexane
Concen: 9.999 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion: 84 Resp: 912927
Ion Ratio Lower Upper
84 100
56 134.4 107.0 160.4
41 83.0 66.6 99.8





#31

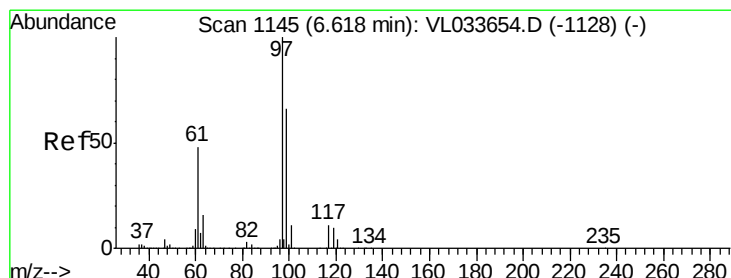
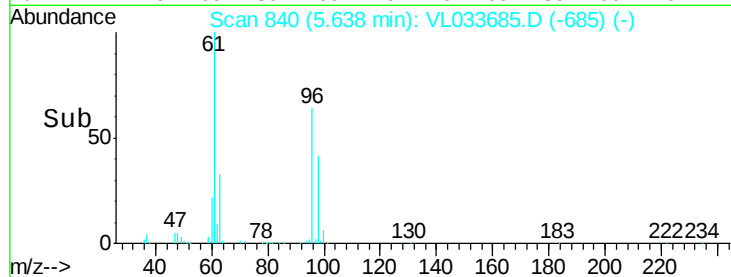
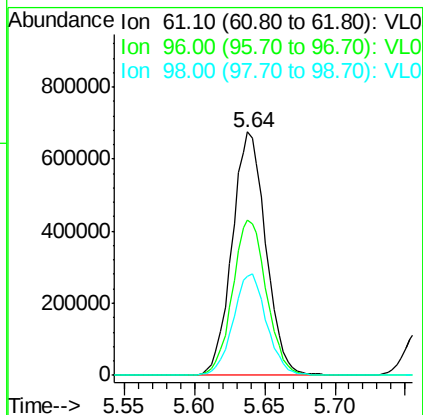
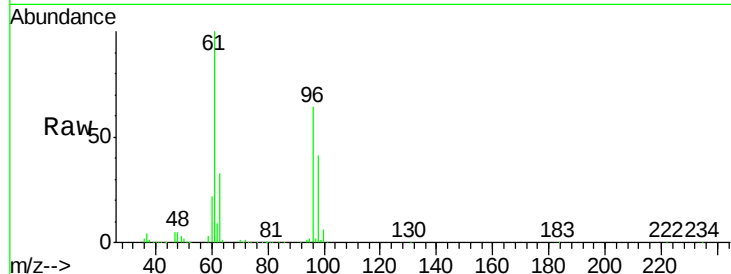
cis-1,2-Dichloroethene
 Concen: 10.449 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
61	100			
96	64.0	53.2	79.8	
98	40.9	34.2	51.4	

Manual Integrations
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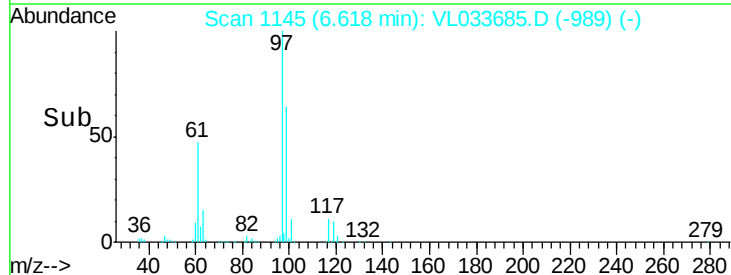
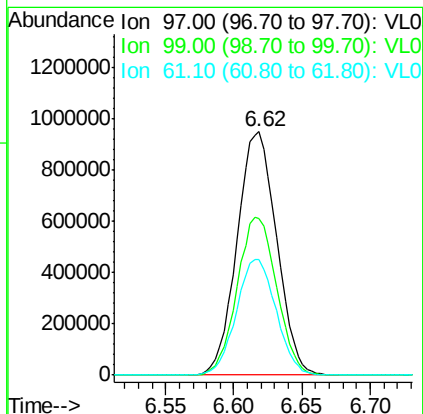
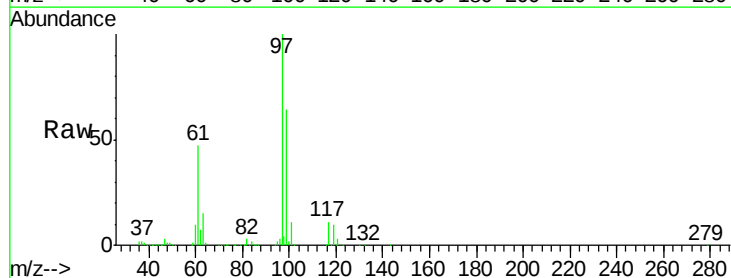
MMDadoda
 5/16/2019 5:40:58 AM

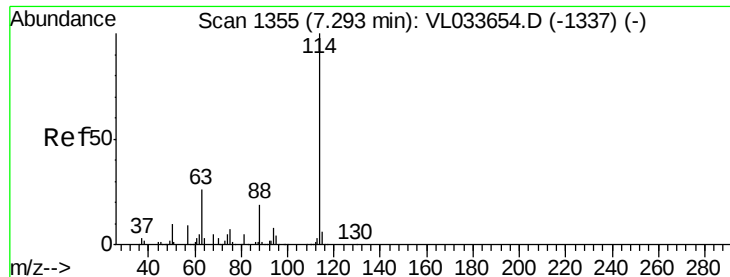


#32

1,1,1-Trichloroethane
 Concen: 9.483 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	65.0	51.4	77.2	
61	47.8	38.5	57.7	





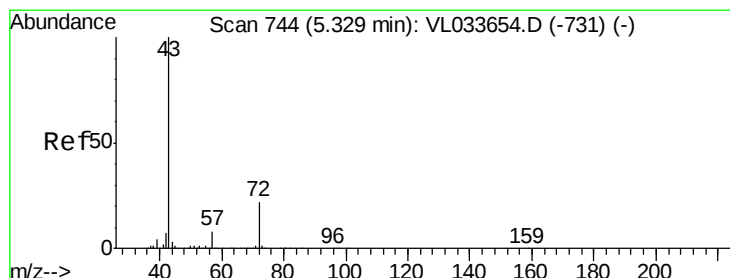
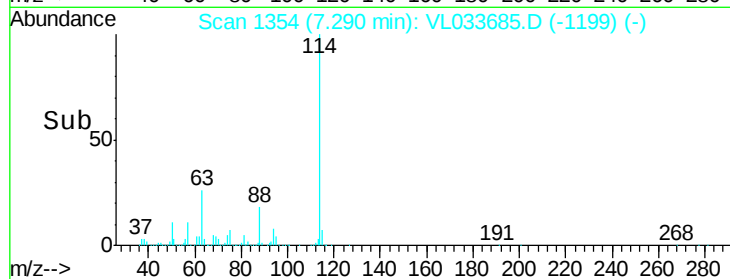
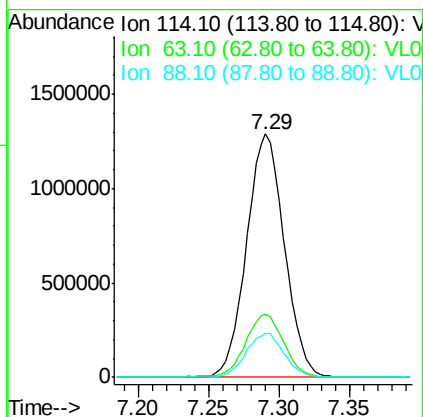
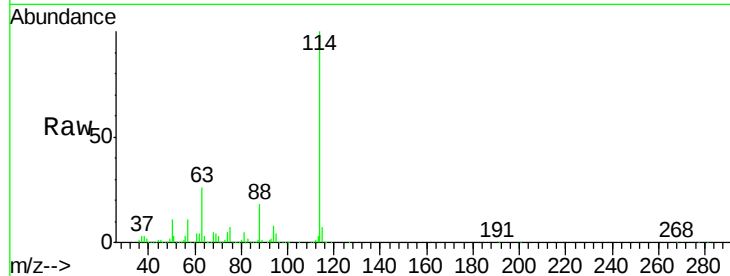
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 2418338
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.3 31.9
 88 18.1 14.4 21.6

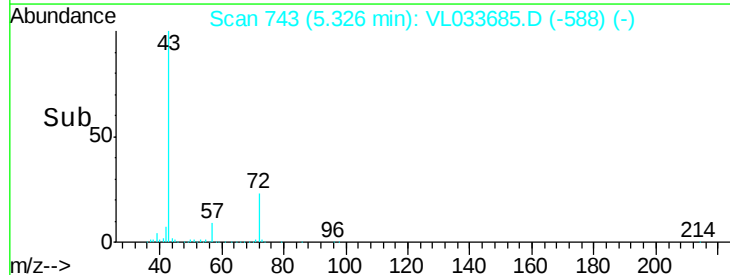
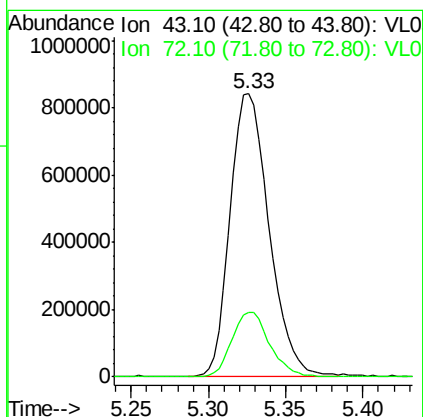
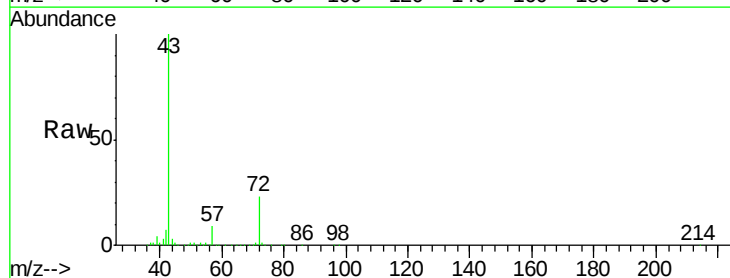
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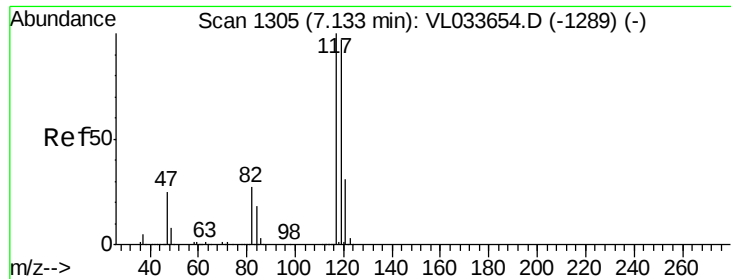
MMDadoda
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#34
 2-Butanone
 Concen: 9.516 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion: 43 Resp: 1473677
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.5 26.3





#35

Carbon Tetrachloride

Concen: 10.267 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2040589

Ion Ratio Lower Upper

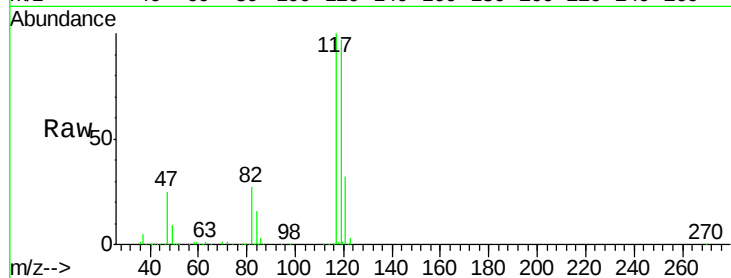
117 100

119 96.8 77.9 116.9

121 31.5 25.0 37.6

Manual Integrations
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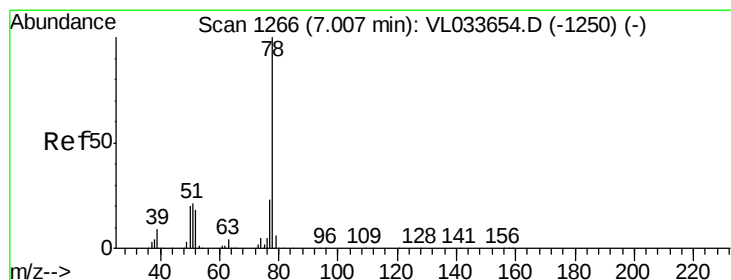
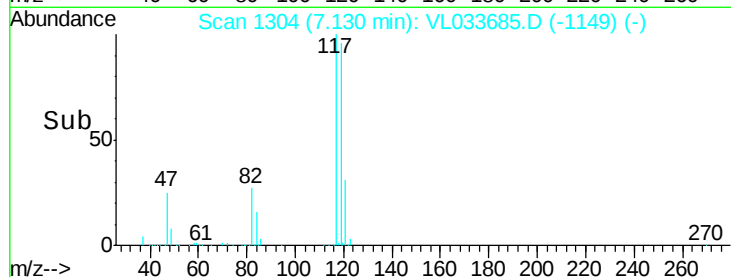
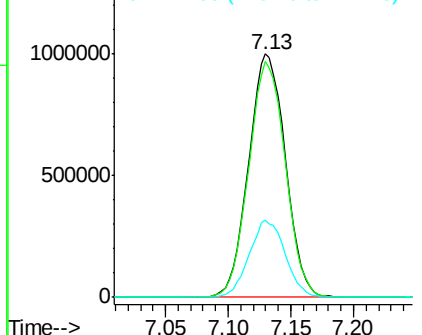
MMDadoda
5/16/2019 5:40:58 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.037 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

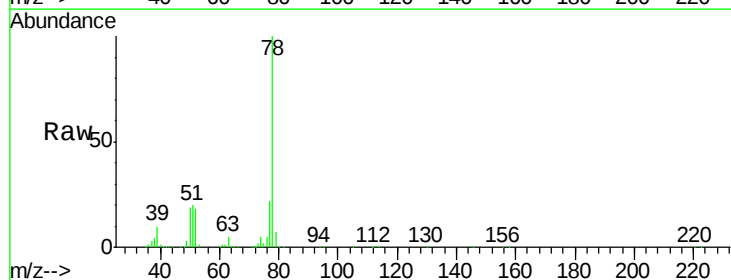
Tgt Ion: 78 Resp: 2176592

Ion Ratio Lower Upper

78 100

77 21.6 18.2 27.2

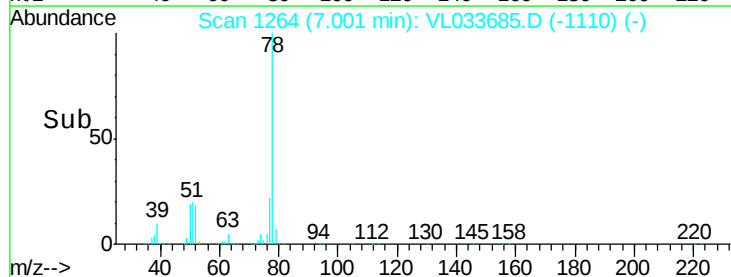
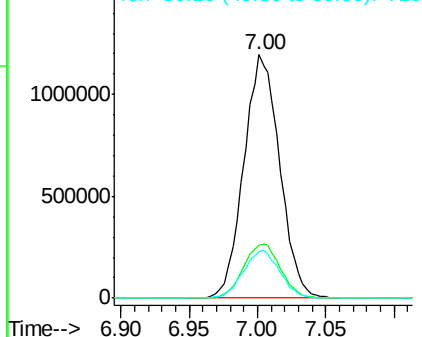
50 19.0 15.8 23.6

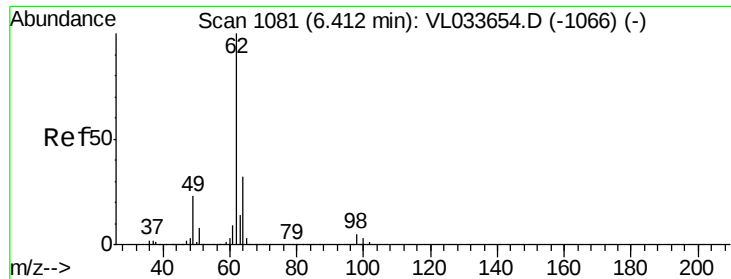


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





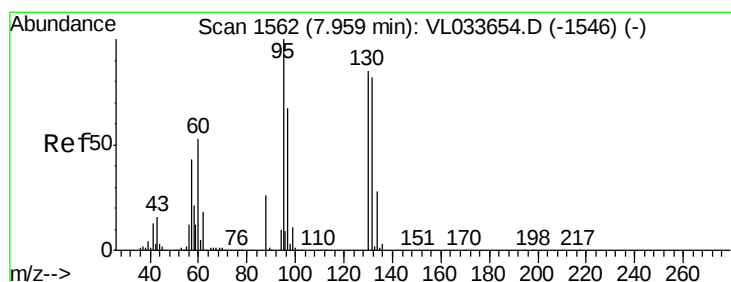
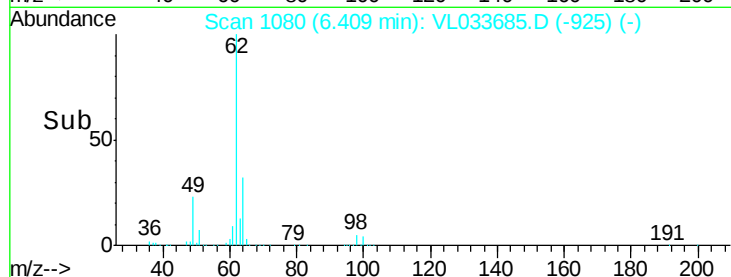
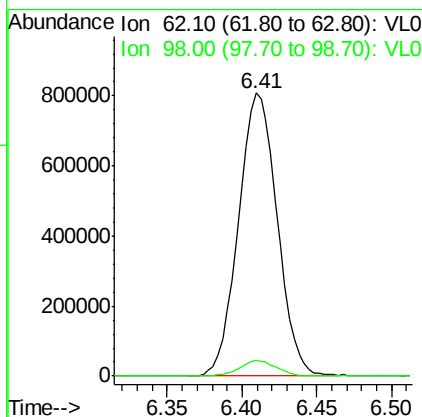
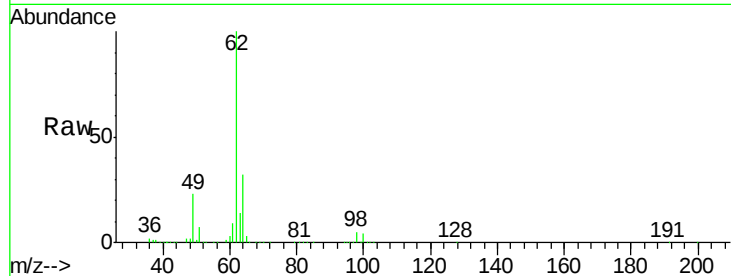
#37
 1,2-Dichloroethane
 Concen: 9.624 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1456073
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.5 6.7

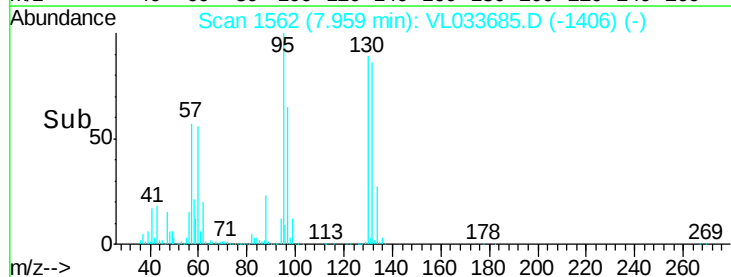
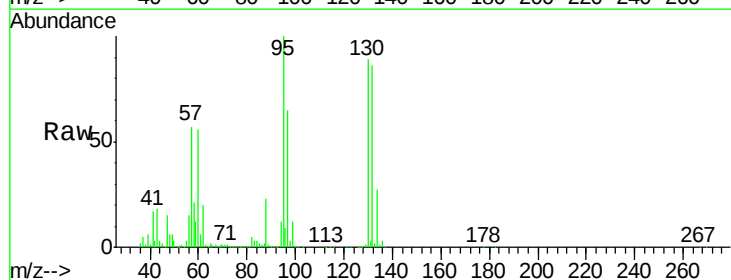
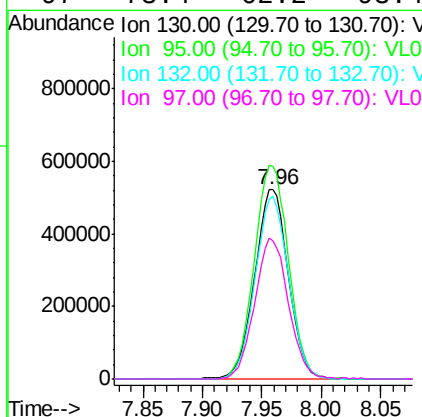
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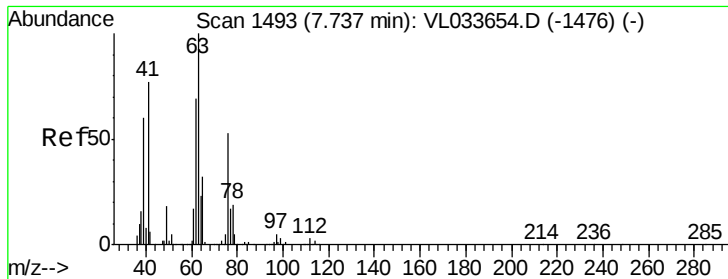
MMDadoda
 5/16/2019 5:40:58 AM



#38
 Trichloroethene
 Concen: 12.862 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion:130 Resp: 1023143
 Ion Ratio Lower Upper
 130 100
 95 112.4 93.4 140.0
 132 96.9 76.2 114.4
 97 73.4 62.2 93.4





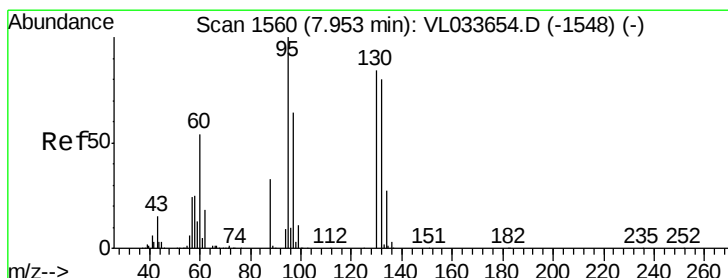
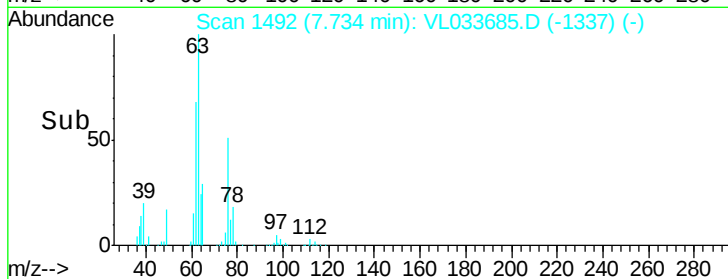
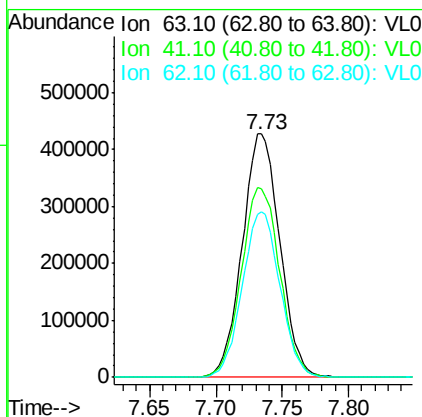
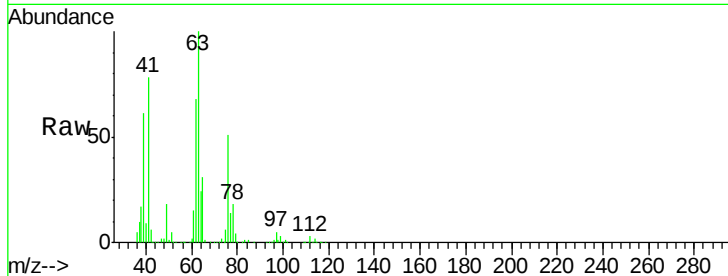
#39
 1,2-Dichloropropane
 Concen: 10.441 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.6	61.6	92.4
62	68.2	55.0	82.6

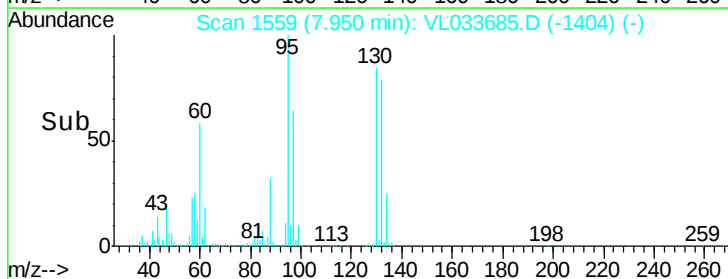
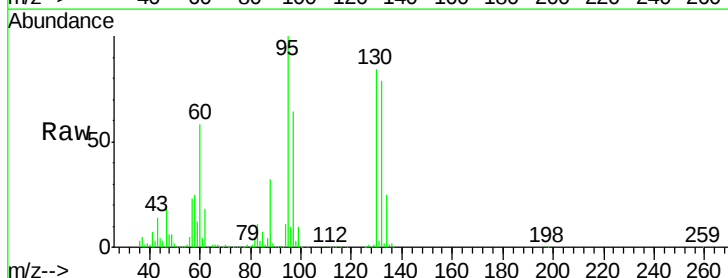
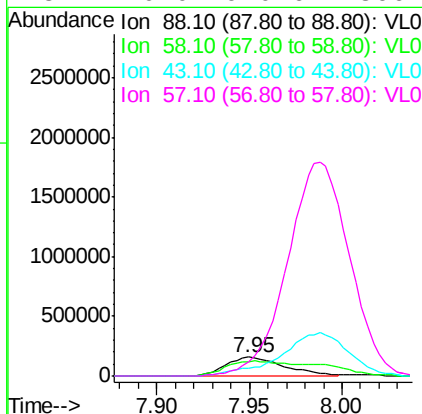
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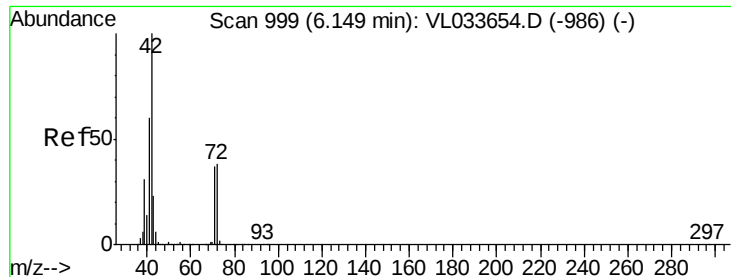
MMDadoda
 5/16/2019 5:40:58 AM



#40
 1,4-Dioxane
 Concen: 10.574 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.7	102.3	153.5
43	0.0	206.1	309.1#
57	0.0	910.6	1366.0#





#41

Tetrahydrofuran

Concen: 11.088 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

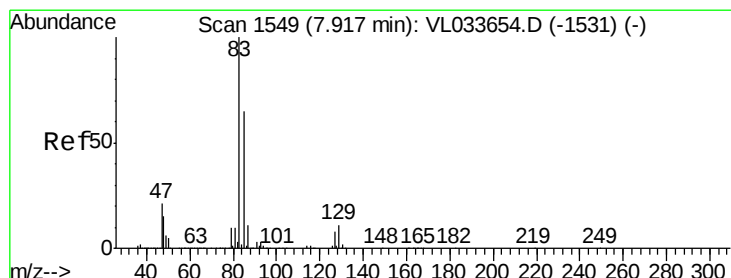
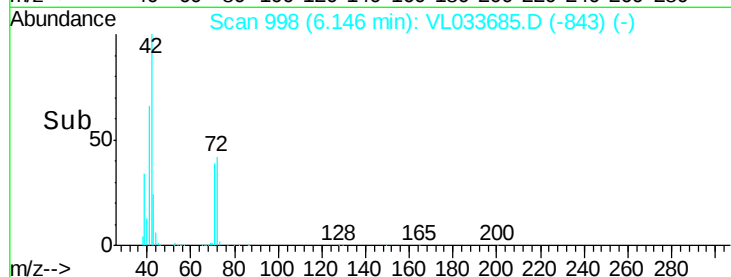
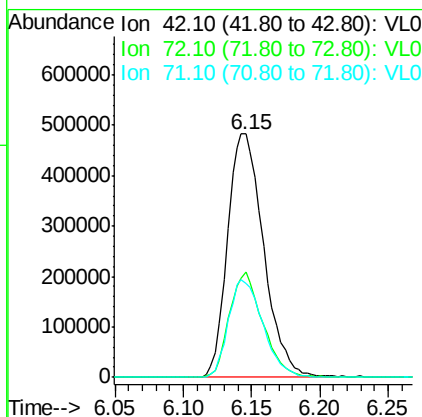
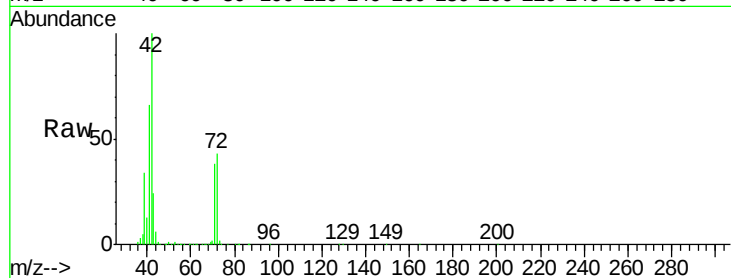
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	887315
Ion Ratio		Lower	Upper
42	100		
72	40.4	31.6	47.4
71	38.7	30.6	46.0

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MMDadoda
5/16/2019 5:40:58 AM



#42

Bromodichloromethane

Concen: 11.477 ppbv

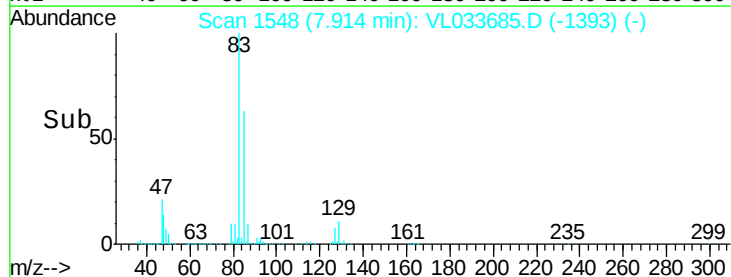
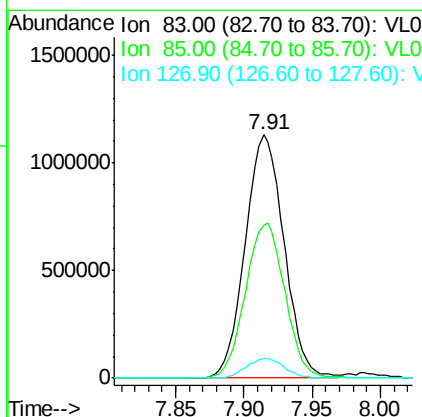
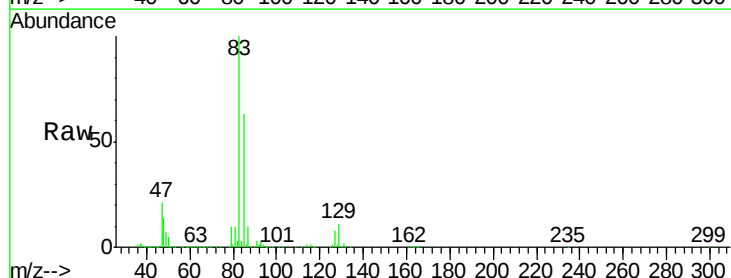
RT: 7.91 min Scan# 1548

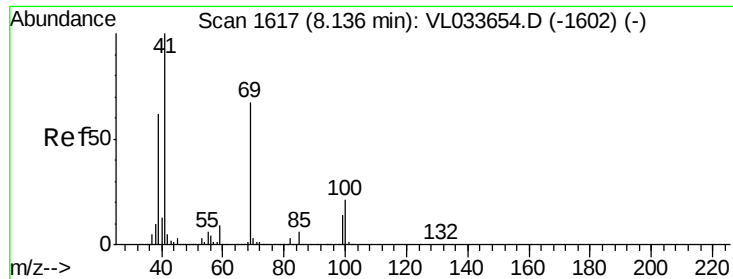
Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tgt Ion:	83	Resp:	2242185
Ion Ratio		Lower	Upper
83	100		
85	62.5	52.4	78.6
127	7.8	6.6	9.8





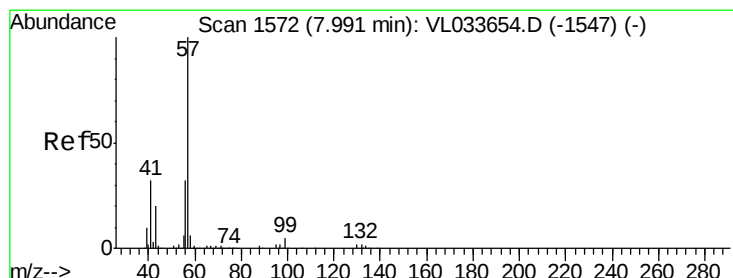
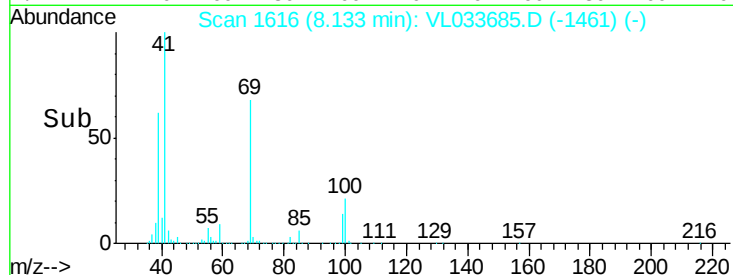
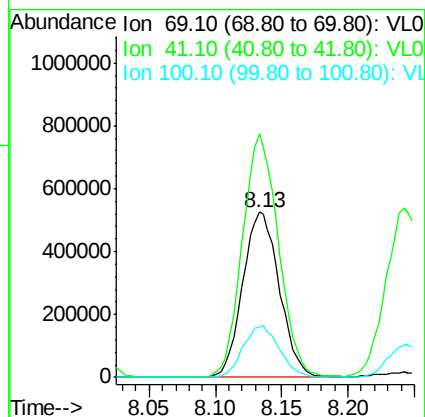
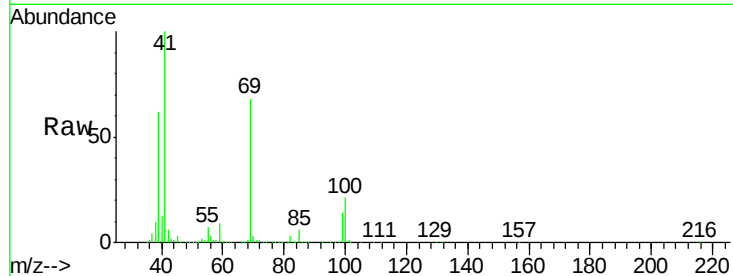
#43
Methvl Methacrilate
Concen: 12.387 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1010368
Ion Ratio Lower Upper
69 100
41 144.4 116.6 175.0
100 30.9 24.6 37.0

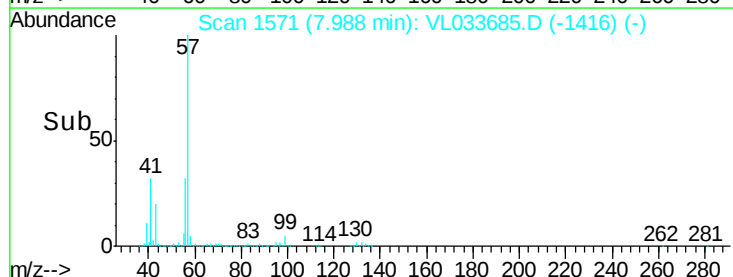
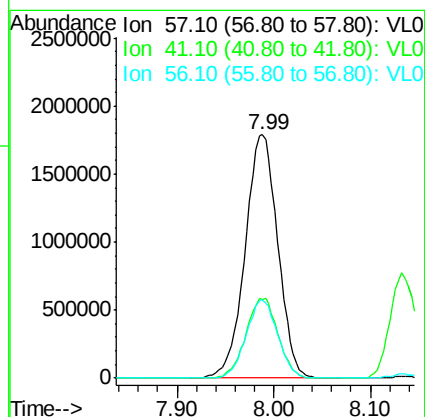
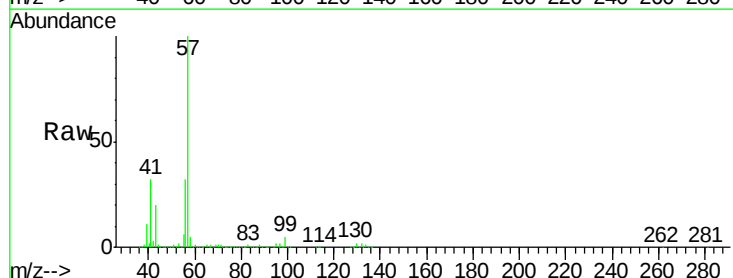
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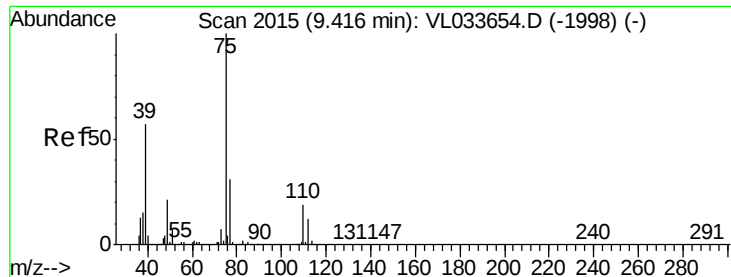
MMDadoda
5/16/2019 5:40:58 AM



#44
2,2,4-Trimethylpentane
Concen: 11.295 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion: 57 Resp: 4187865
Ion Ratio Lower Upper
57 100
41 32.4 25.7 38.5
56 31.2 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 12.996 ppbv m

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tot Ion: 75 Resp: 1301089

Ion Ratio Lower Upper

75 100

77 32.3 24.7 37.1

Instrument :

MSVOA_L

ClientSampleId :

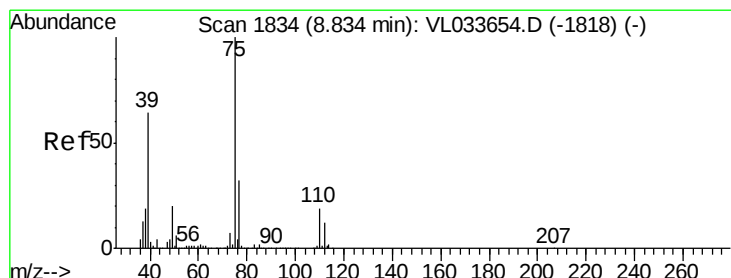
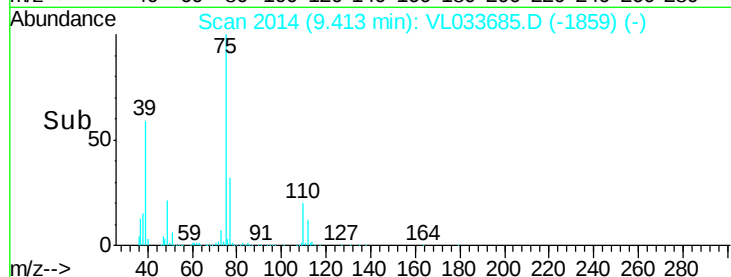
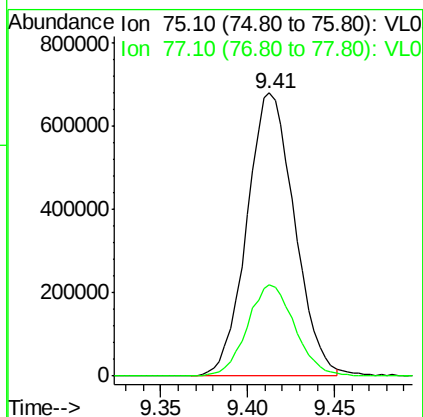
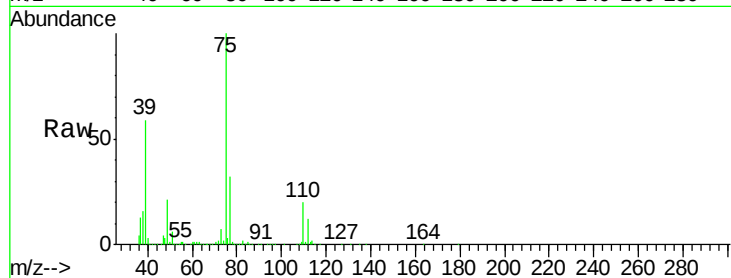
VSTDCCC010

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#46

cis-1,3-Dichloropropene

Concen: 12.317 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

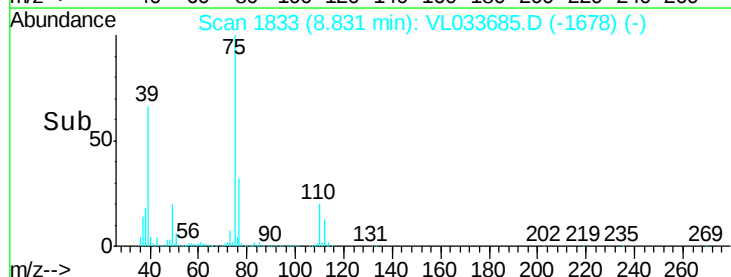
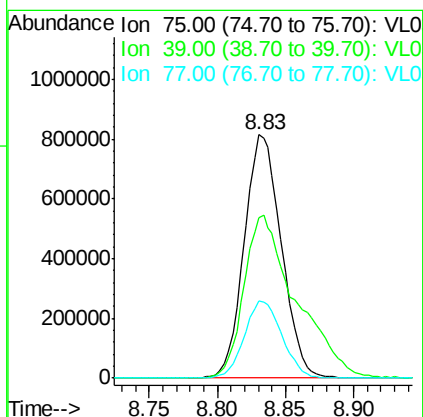
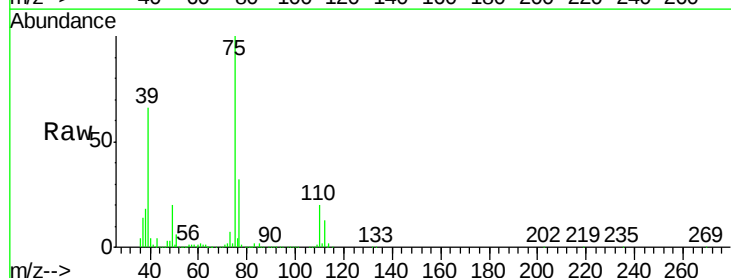
Tgt Ion: 75 Resp: 1538929

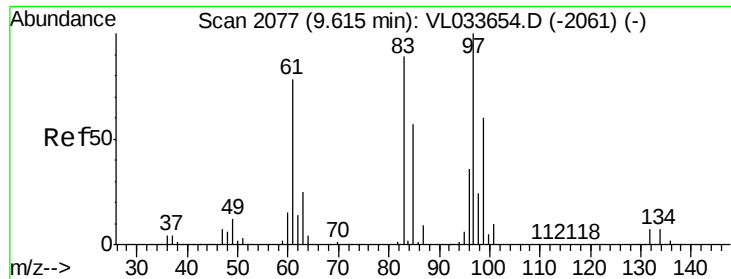
Ion Ratio Lower Upper

75 100

39 66.1 51.5 77.3

77 31.6 25.4 38.0





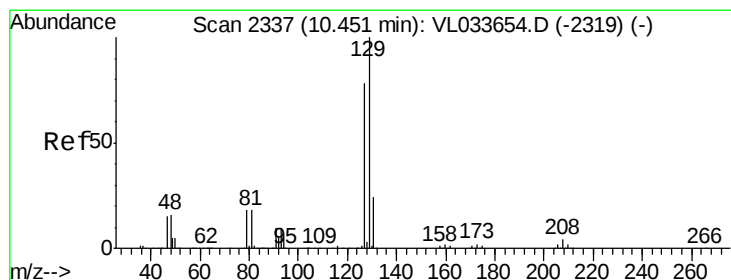
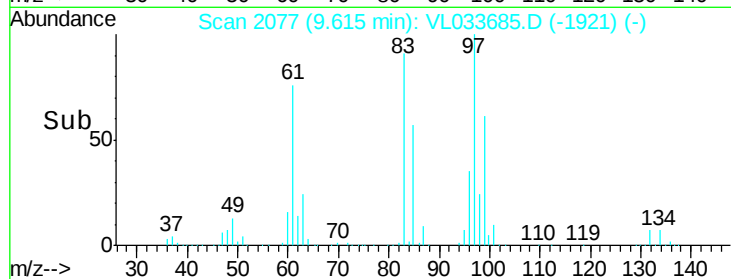
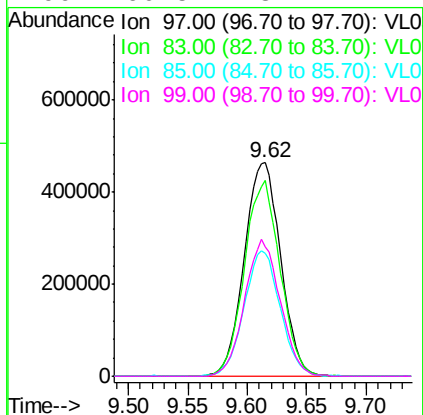
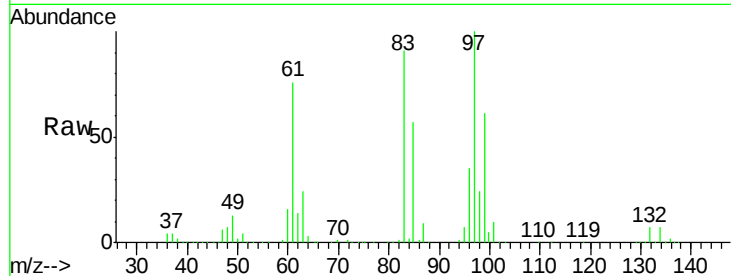
#47
 1,1,2-Trichloroethane
 Concen: 10.602 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	97	Resp:	984031
Ion Ratio	Lower	Upper	
97	100		
83	91.4	70.9	106.3
85	57.1	45.8	68.6
99	60.5	48.2	72.4

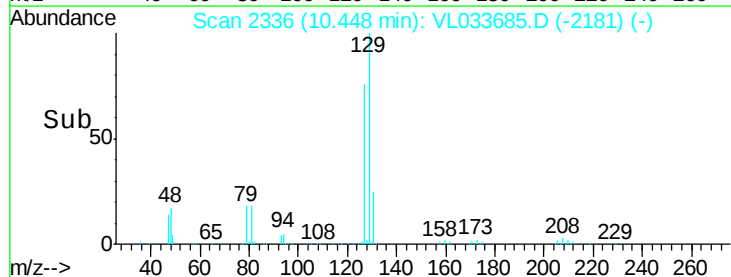
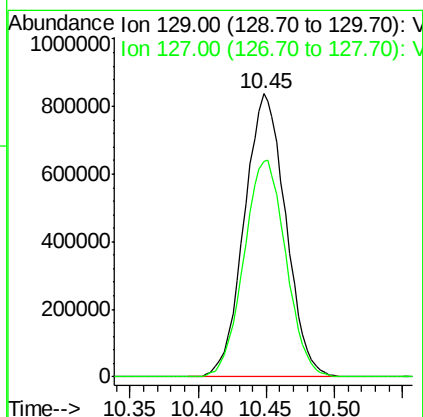
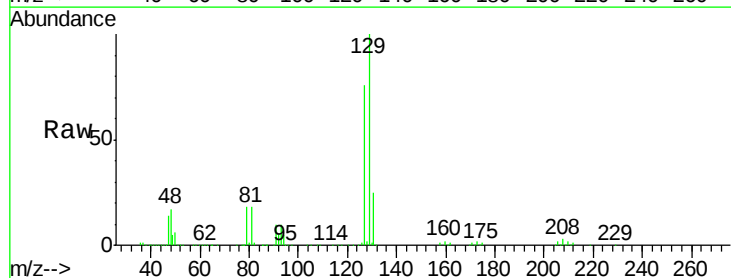
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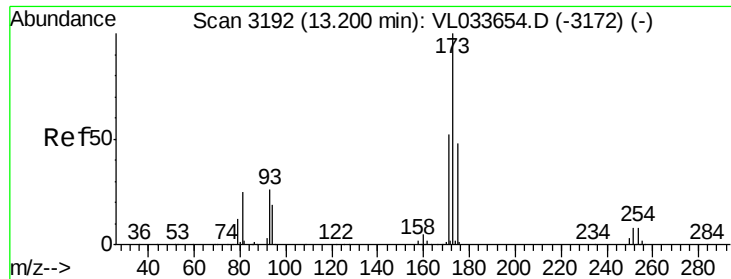
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#48
 Dibromochloromethane
 Concen: 11.197 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion:	129	Resp:	1761681
Ion Ratio	Lower	Upper	
129	100		
127	78.0	39.1	117.2





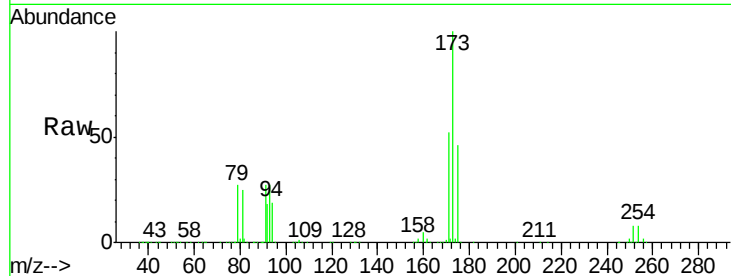
#49
Bromoform
Concen: 12.033 ppbv
RT: 13.20 min Scan# 3191
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

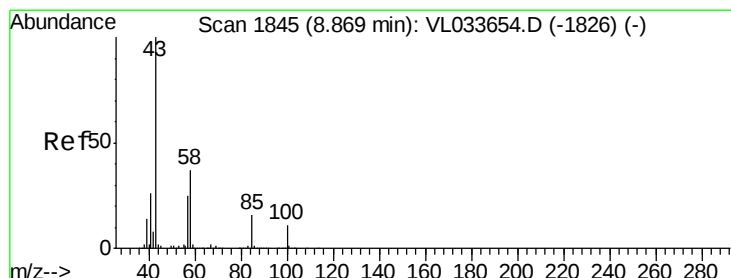
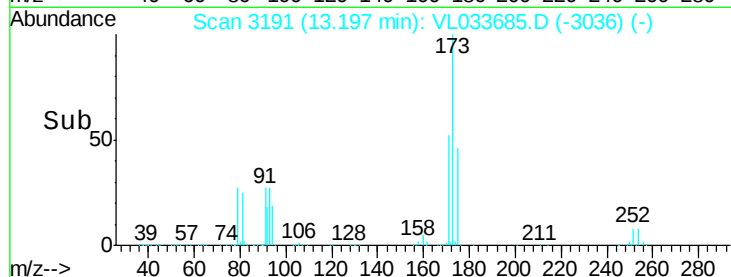
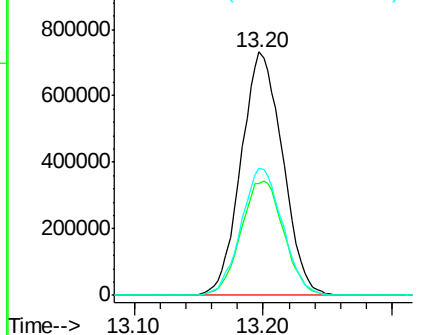
Tot Ion:173 Resp: 1644538
Ion Ratio Lower Upper
173 100
175 48.4 39.3 58.9
171 52.2 41.5 62.3

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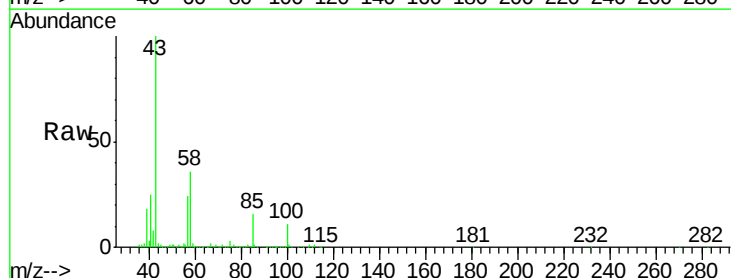


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

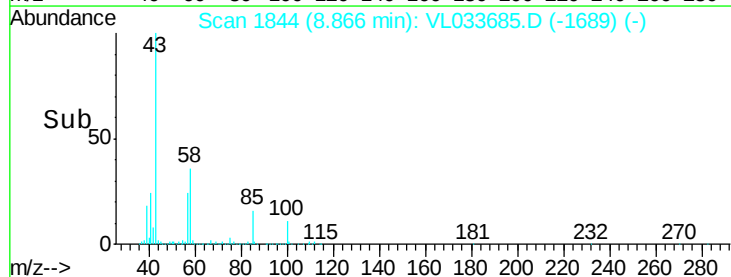
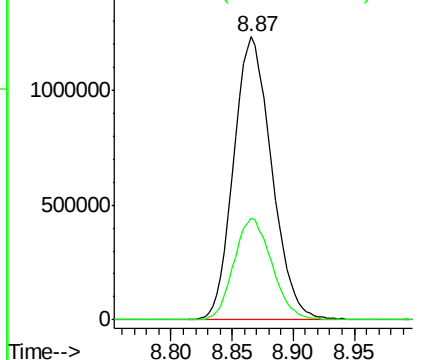


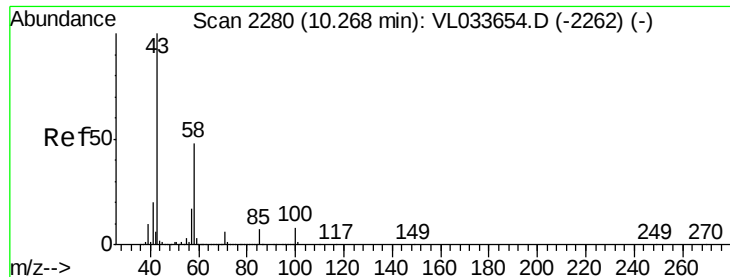
#50
4-Methyl-2-Pentanone
Concen: 11.342 ppbv
RT: 8.87 min Scan# 1844
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion: 43 Resp: 2659494
Ion Ratio Lower Upper
43 100
58 35.9 28.8 43.2



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





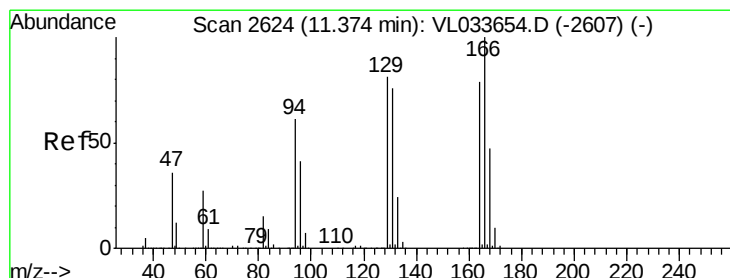
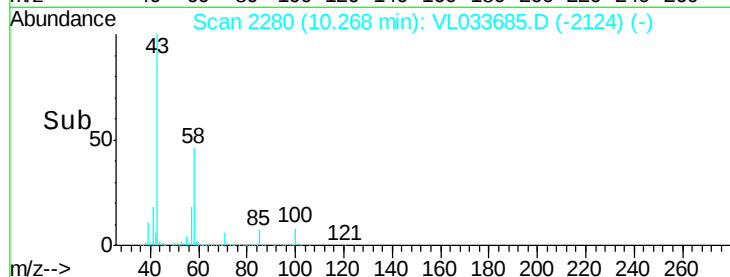
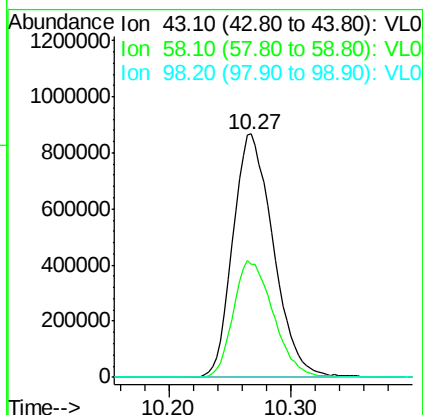
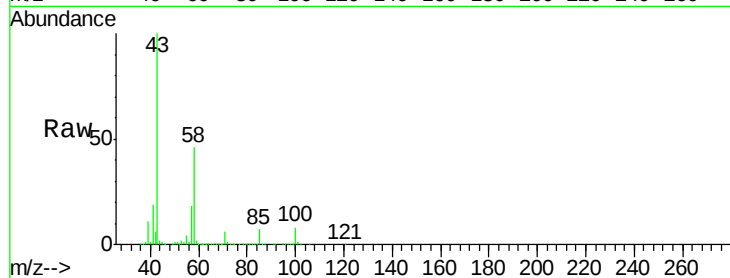
#51
2-Hexanone
Concen: 10.948 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. 0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.6	38.2	57.4
98	0.3	0.2	0.4

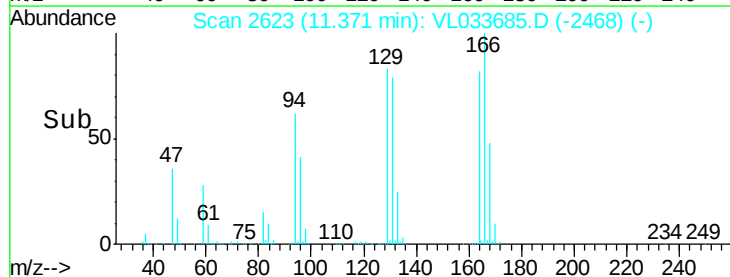
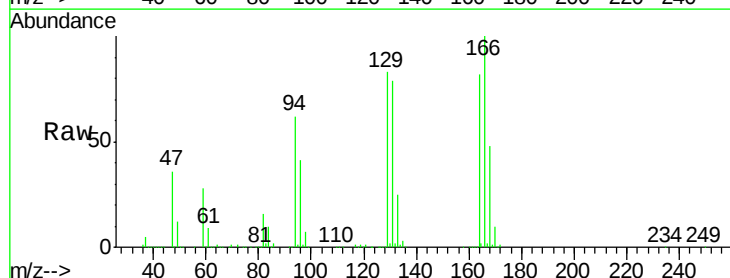
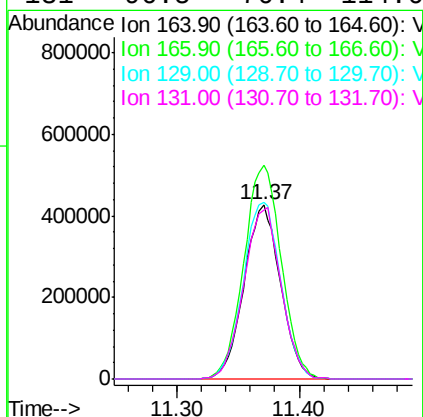
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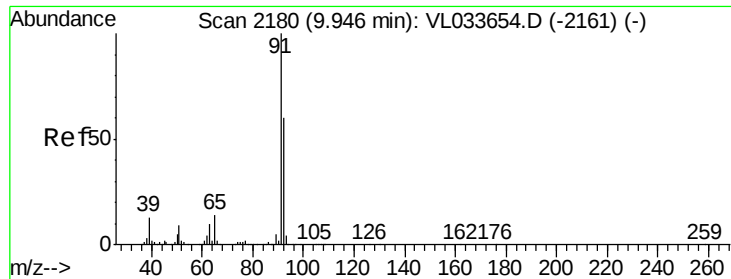
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#52
Tetrachloroethene
Concen: 11.410 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.3	100.6	151.0
129	101.4	81.0	121.6
131	96.5	76.4	114.6





#53

Toluene

Concen: 11.391 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2668910

Ion Ratio Lower Upper

91 100

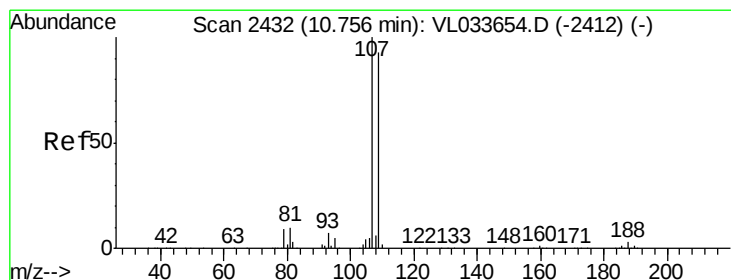
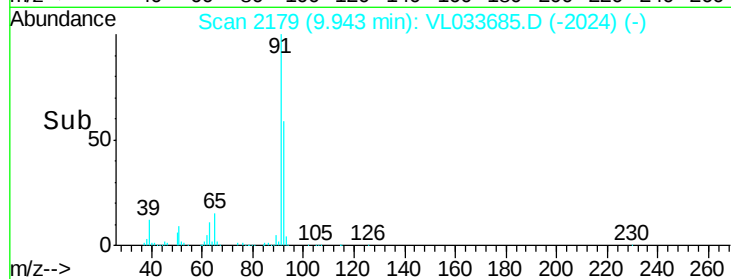
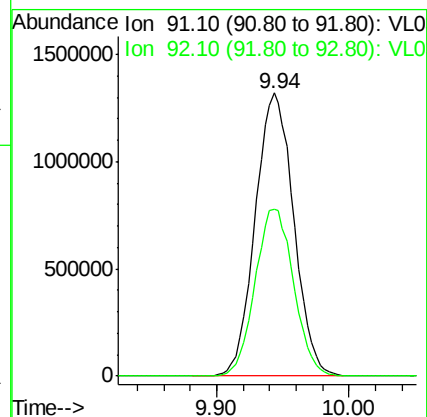
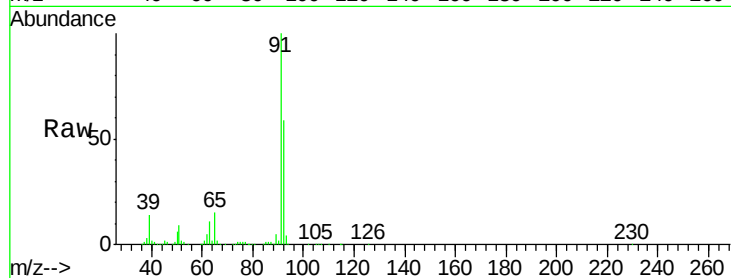
92 59.4 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 11.259 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.00 min

Lab File: VL033685.D

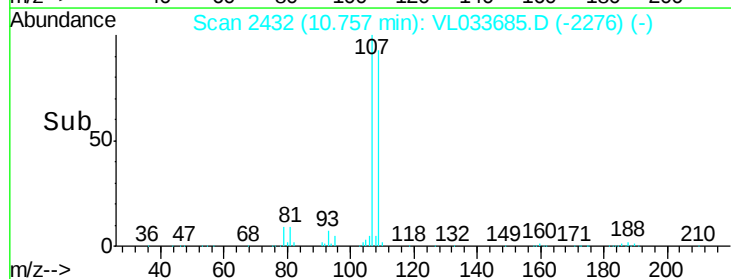
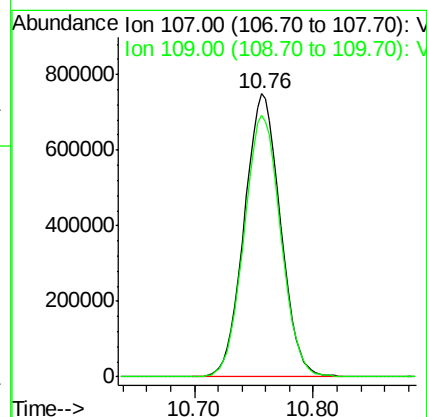
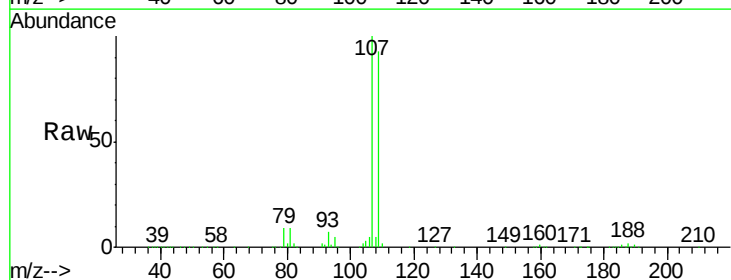
Acq: 14 May 2019 10:03

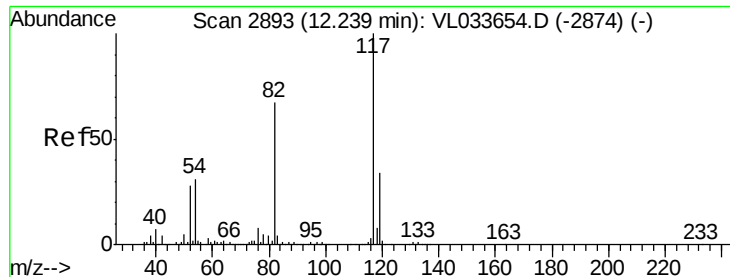
Tgt Ion: 107 Resp: 1574110

Ion Ratio Lower Upper

107 100

109 92.6 74.6 111.8





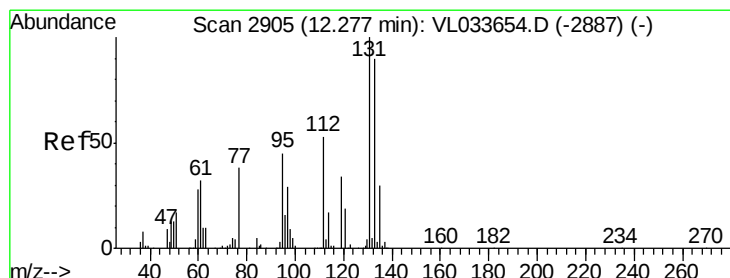
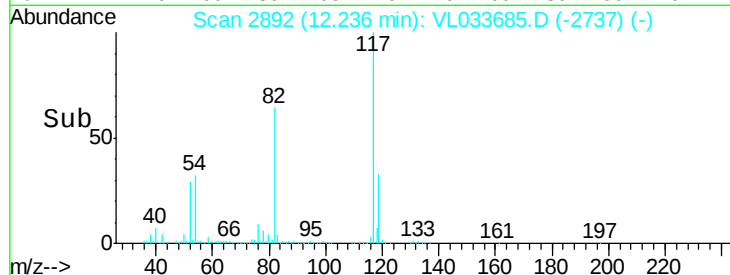
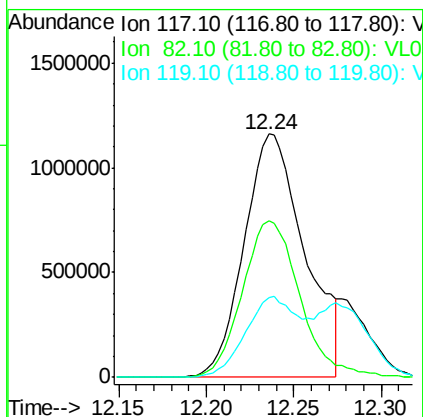
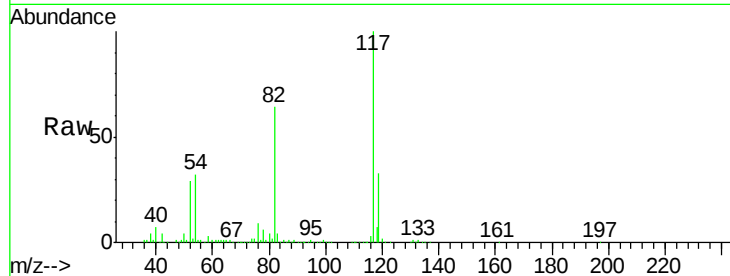
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 2818234
Ion Ratio Lower Upper
117 100
82 60.9 49.7 74.5
119 27.7 24.8 37.2

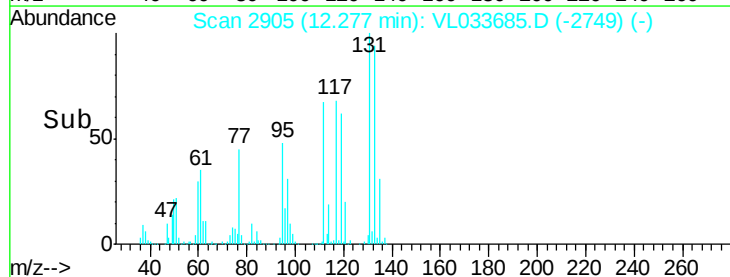
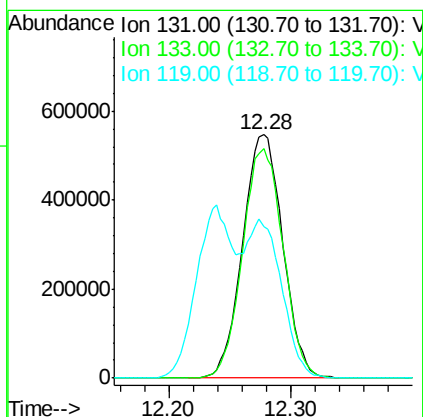
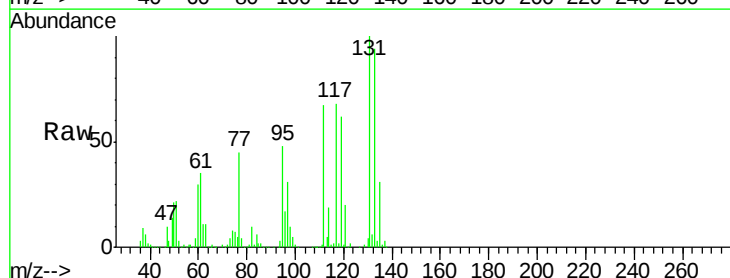
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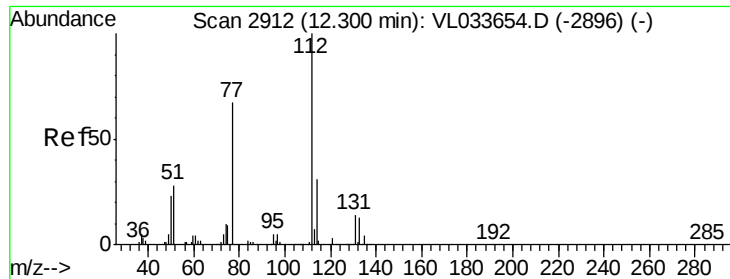
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.546 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion:131 Resp: 1240947
Ion Ratio Lower Upper
131 100
133 95.3 76.0 114.0
119 58.6 45.4 68.2





#57

Chlorobenzene

Concen: 9.292 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

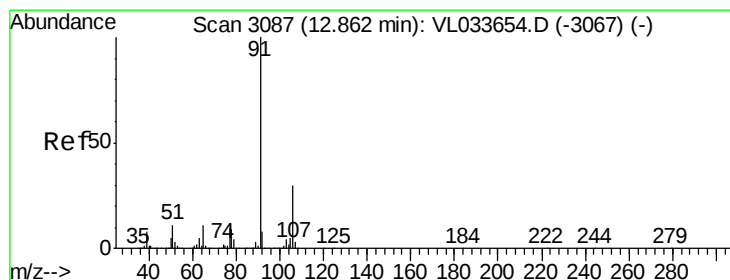
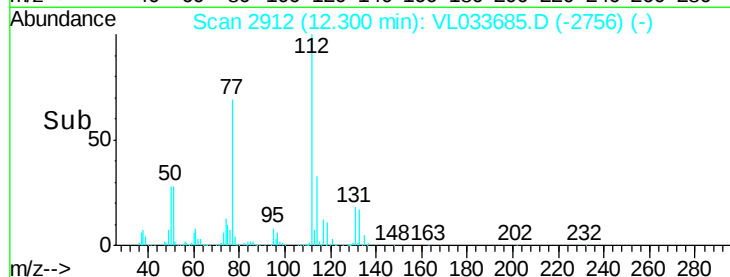
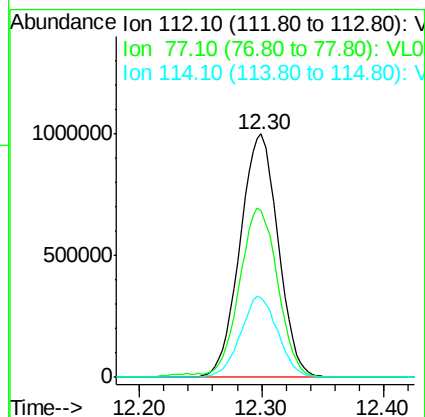
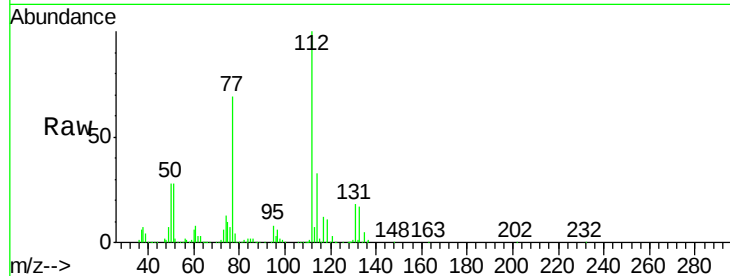
ClientSampleId :

VSTDCCC010

Tot Ion:	112	Resp:	2150171
Ion Ratio	Lower	Upper	
112	100		
77	68.5	54.4	81.6
114	32.6	28.2	34.4

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#58

Ethyl Benzene

Concen: 10.464 ppbv

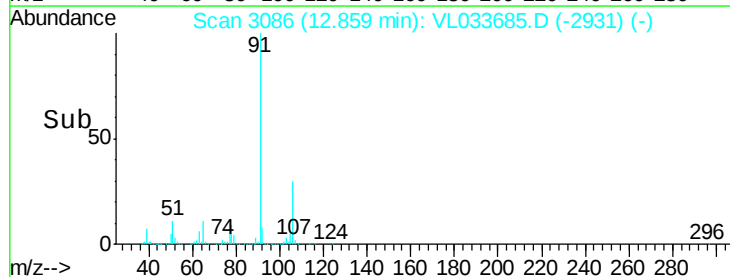
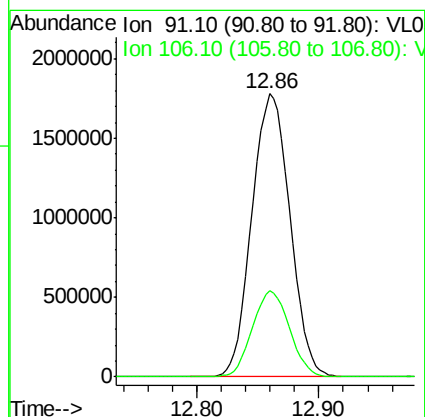
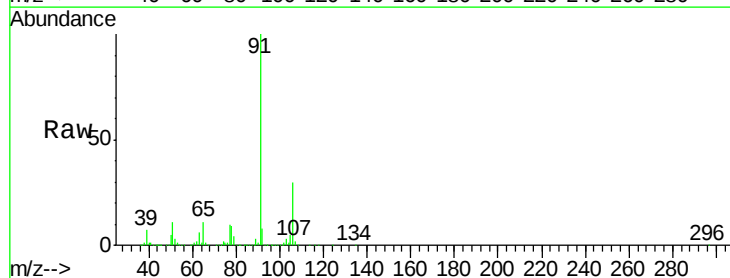
RT: 12.86 min Scan# 3086

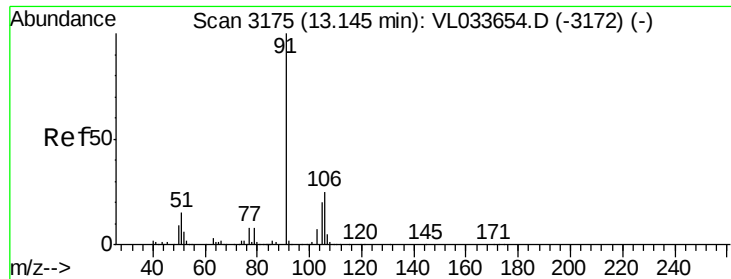
Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tgt Ion:	91	Resp:	3845742
Ion Ratio	Lower	Upper	
91	100		
106	30.4	23.7	35.5





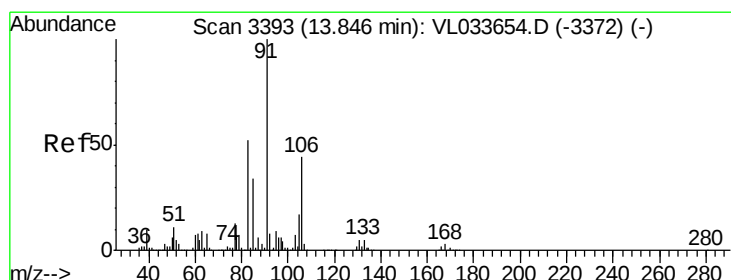
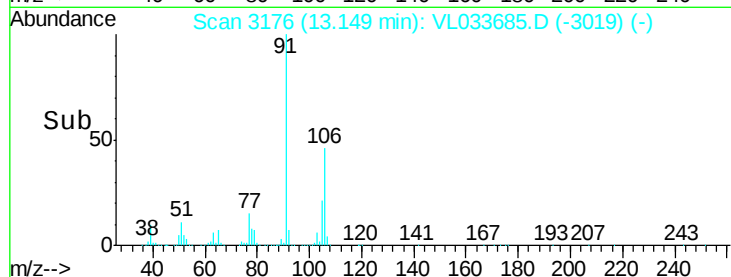
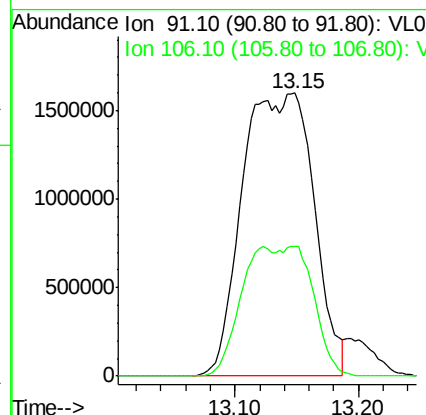
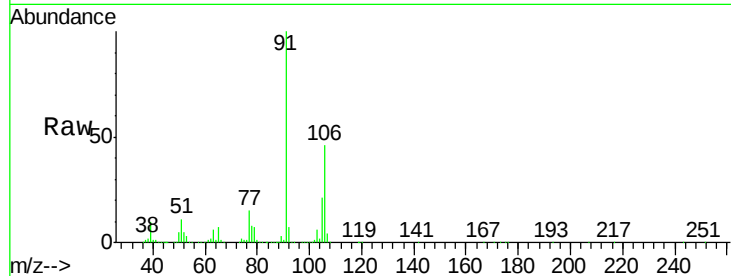
#59
m/p-Xylene
Concen: 19.786 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 6404876
Ion Ratio Lower Upper
91 100
106 45.3 36.2 54.2

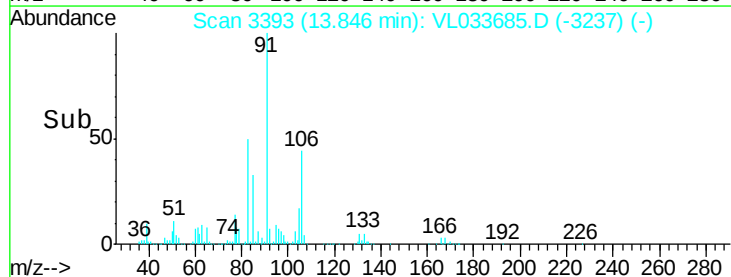
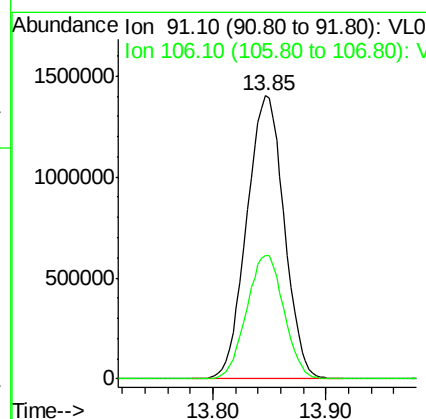
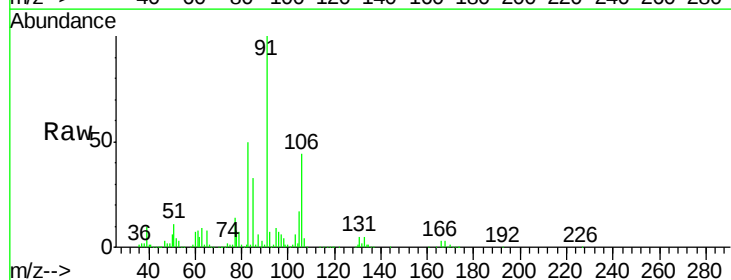
Manual Integrations
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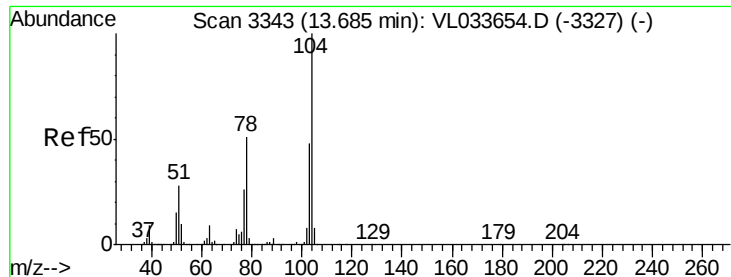
MMDadoda
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#60
o-Xylene
Concen: 9.844 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. 0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion: 91 Resp: 3224951
Ion Ratio Lower Upper
91 100
106 43.5 21.7 65.1





#61

Stvrene

Concen: 11.006 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2400950

Ion Ratio Lower Upper

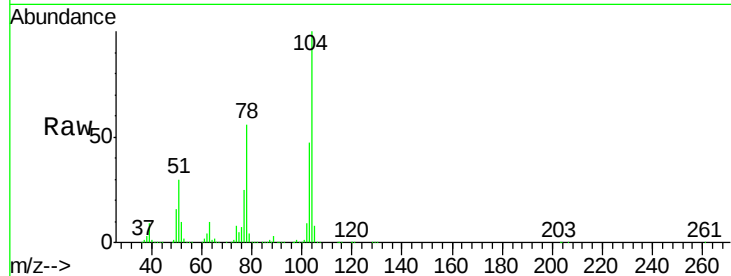
104 100

78 54.8 43.0 64.6

103 47.7 38.1 57.1

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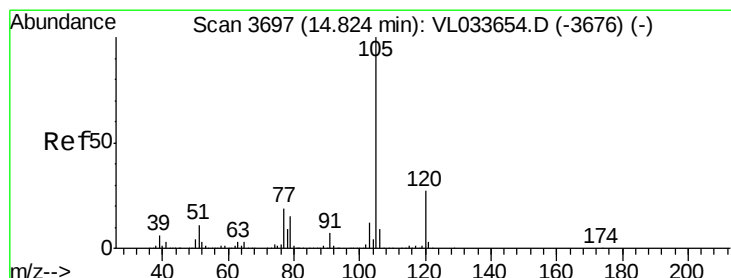
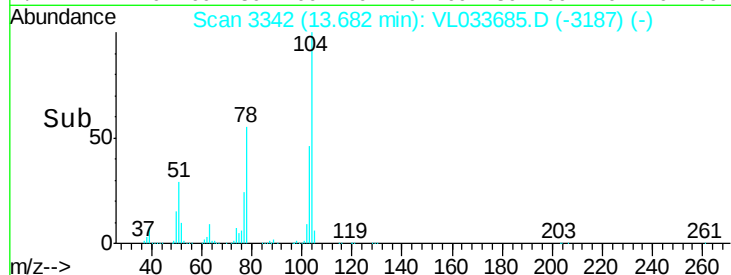
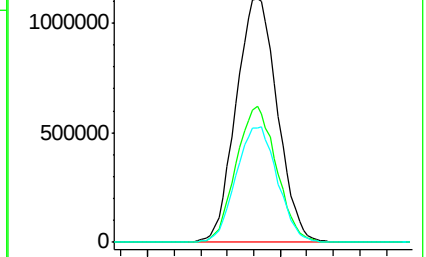
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.887 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033685.D

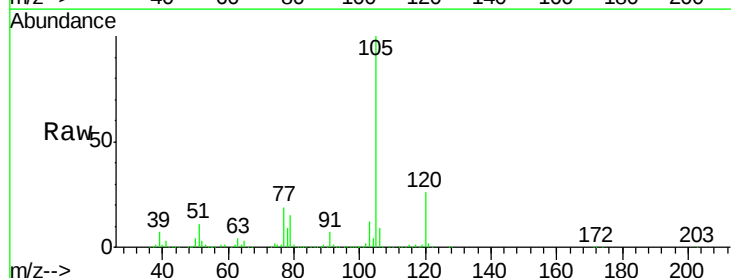
Acq: 14 May 2019 10:03

Tgt Ion:105 Resp: 4422539

Ion Ratio Lower Upper

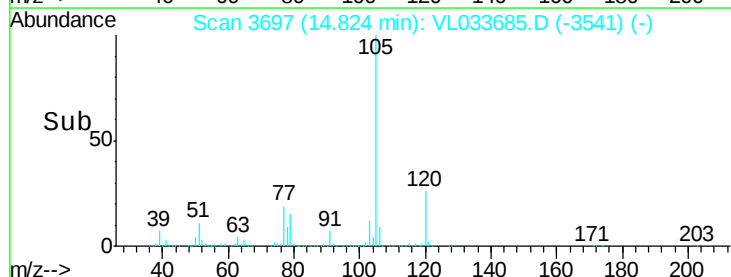
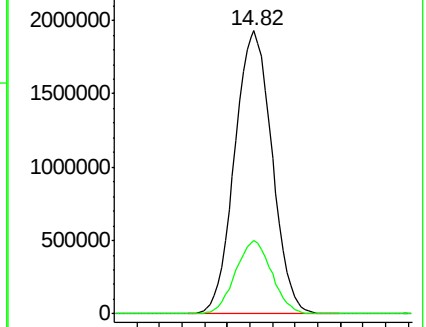
105 100

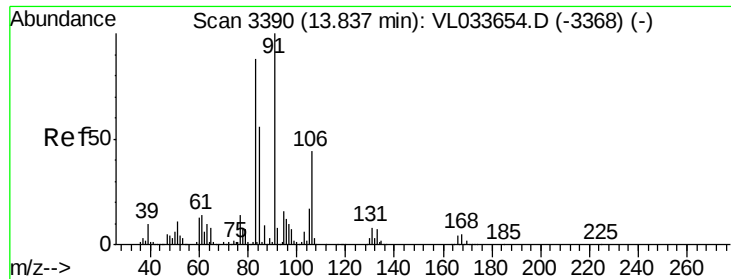
120 25.3 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





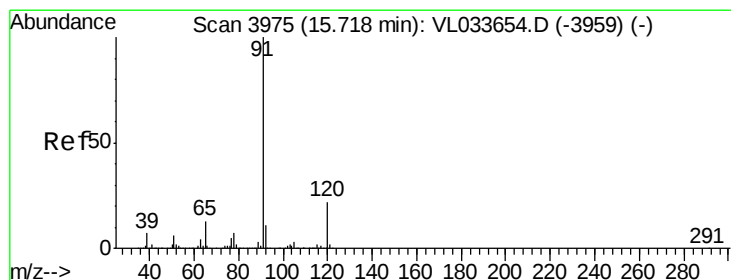
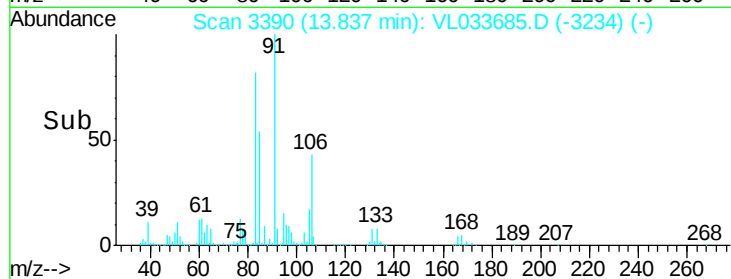
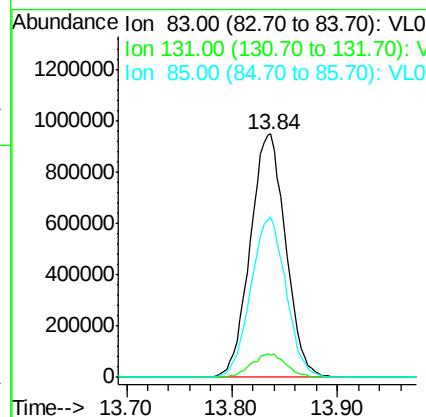
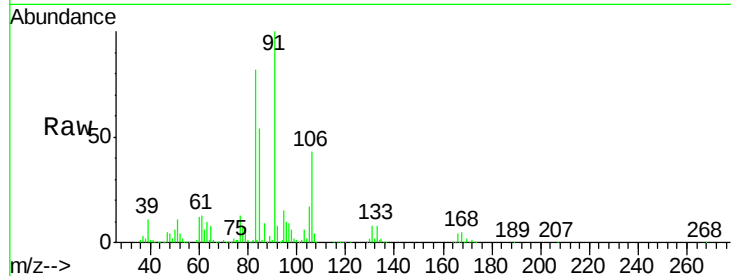
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.316 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	65.5	32.5	97.4

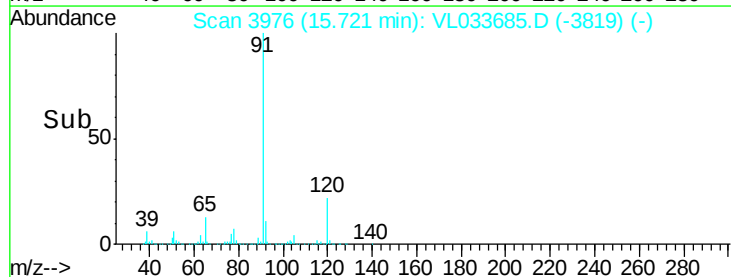
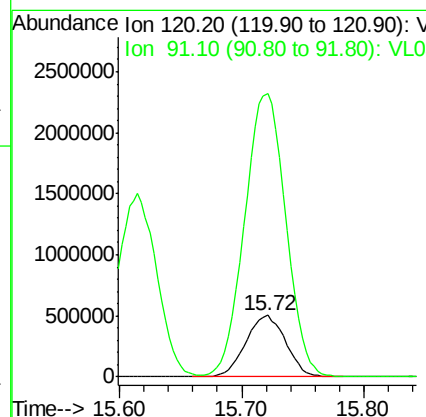
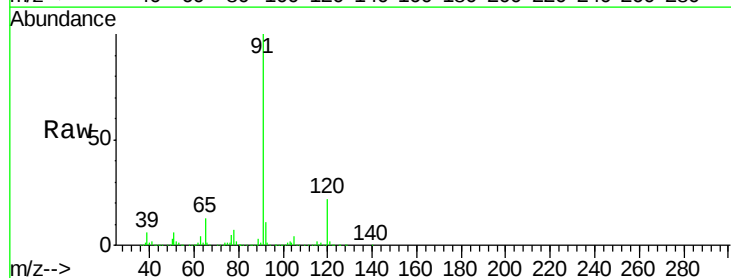
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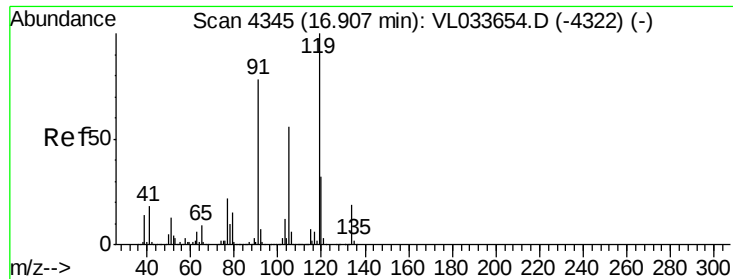
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#64
 n-propylbenzene
 Concen: 9.846 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
120	100		
91	476.1	379.0	568.6





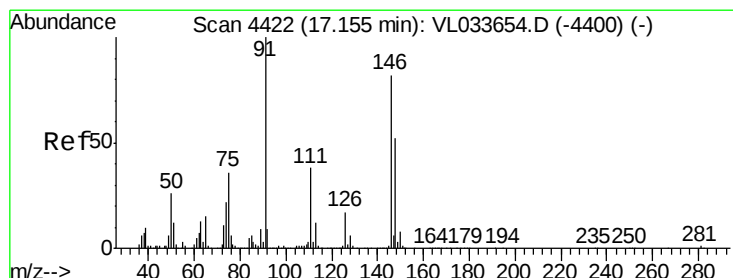
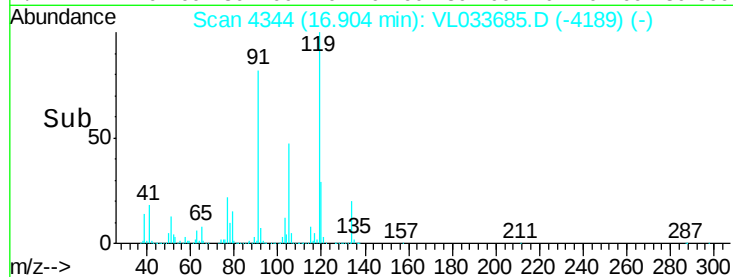
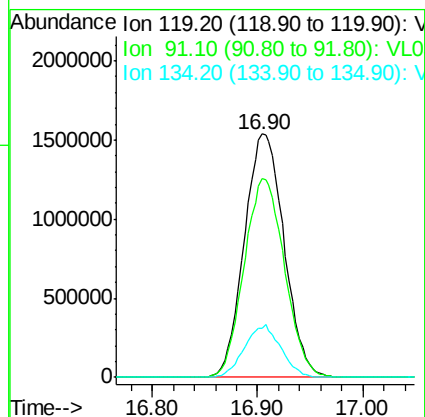
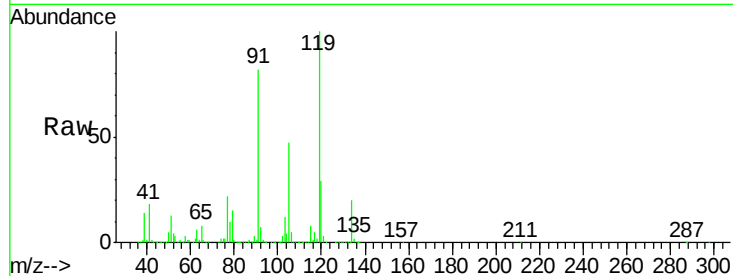
#65
tert-Butylbenzene
Concen: 9.816 ppbv
RT: 16.90 min Scan# 4344
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 119 Resp: 4027566
Ion Ratio Lower Upper
119 100
91 83.1 65.9 98.9
134 19.7 15.5 23.3

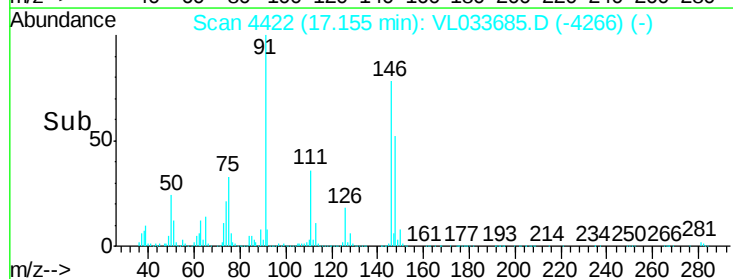
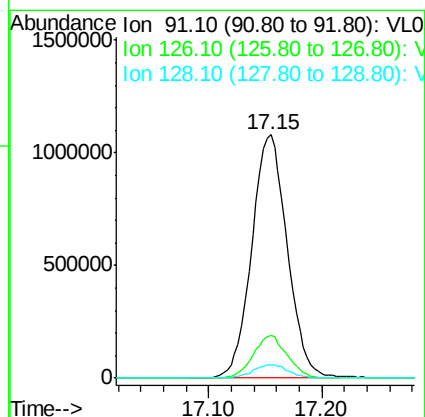
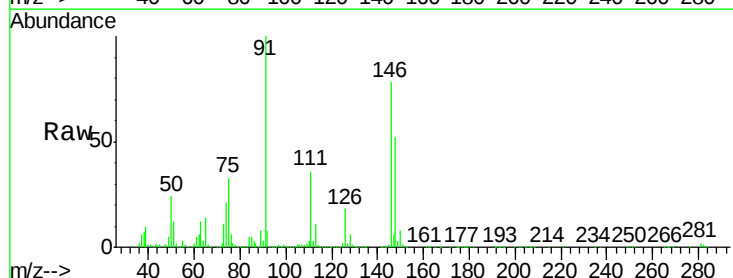
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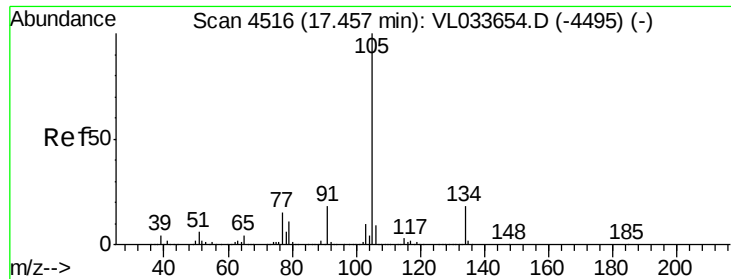
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#66
Benzyl Chloride
Concen: 12.610 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. 0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion: 91 Resp: 2353777
Ion Ratio Lower Upper
91 100
126 16.9 13.4 20.2
128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.763 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 5589224

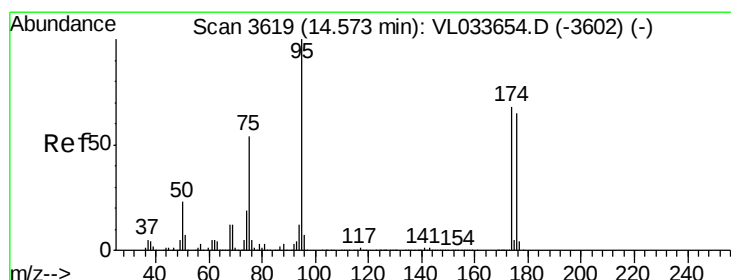
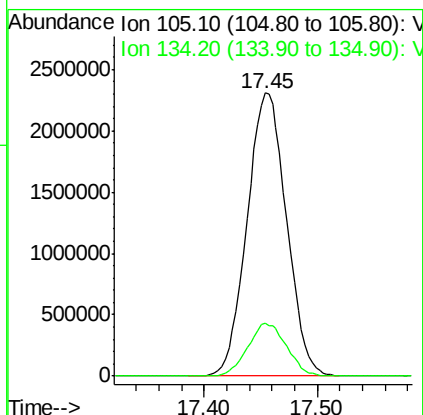
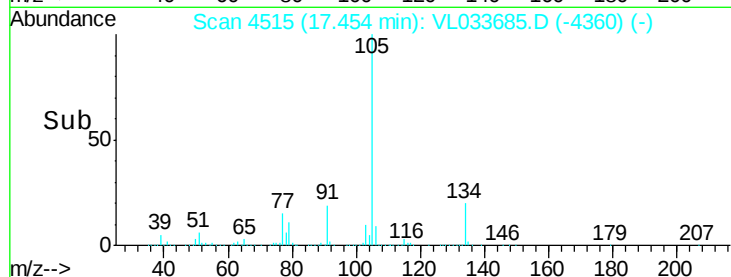
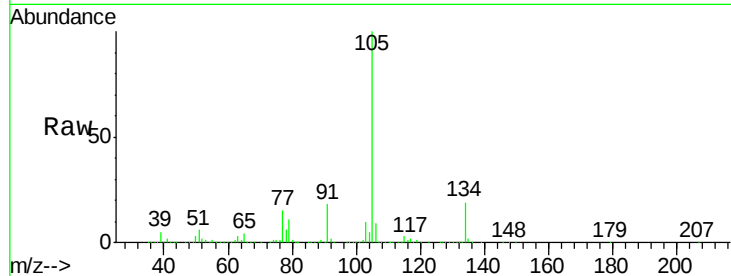
Ion Ratio Lower Upper

105 100

134 18.4 14.6 22.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.357 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

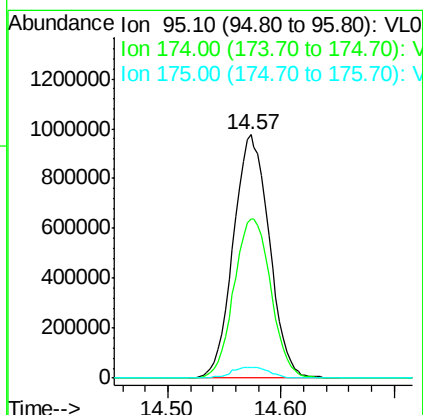
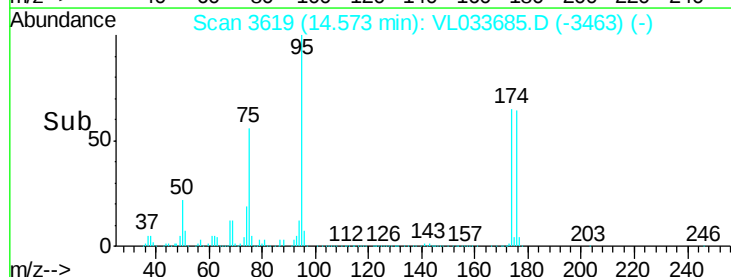
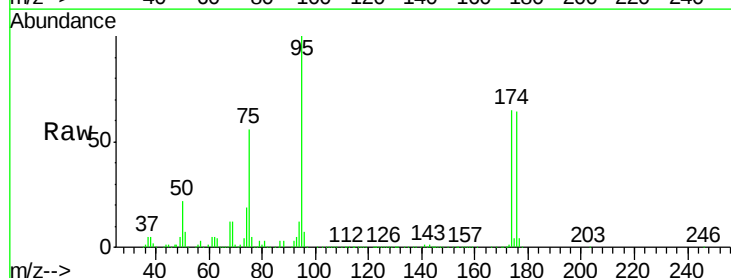
Tgt Ion: 95 Resp: 2161647

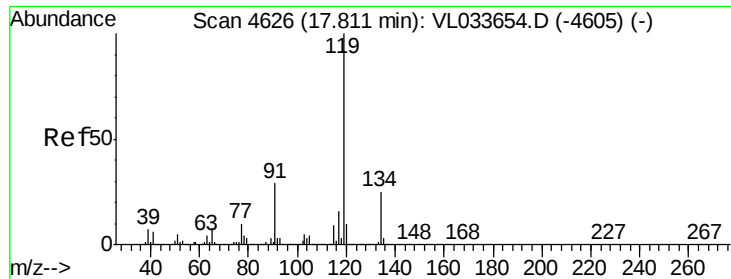
Ion Ratio Lower Upper

95 100

174 67.3 54.0 81.0

175 4.7 3.8 5.8





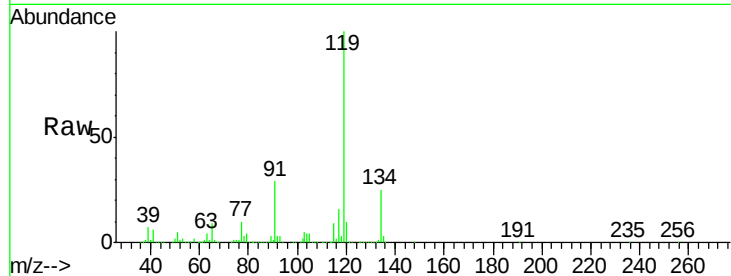
#69
 p-Isopropyltoluene
 Concen: 9.294 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

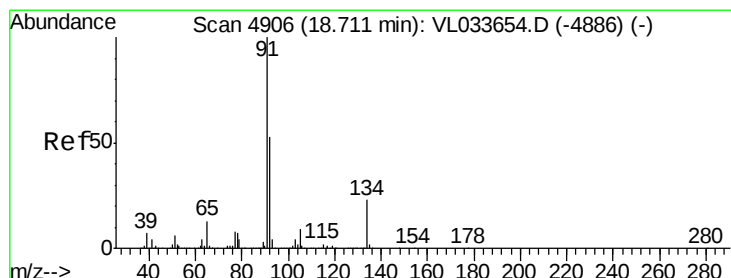
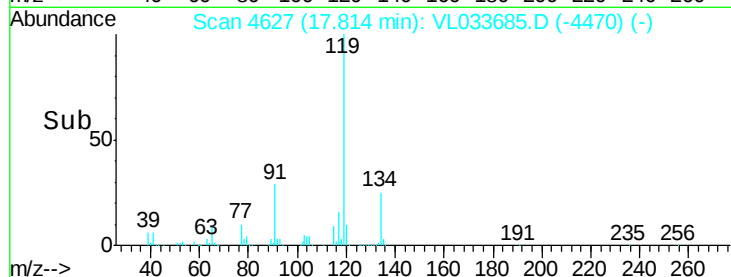
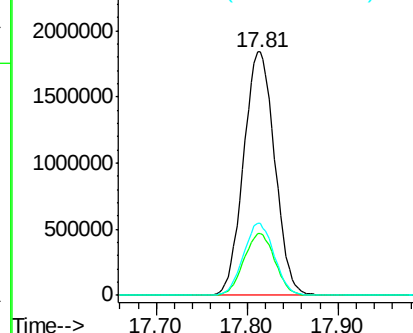
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.2	30.2
91	29.2	23.4	35.2

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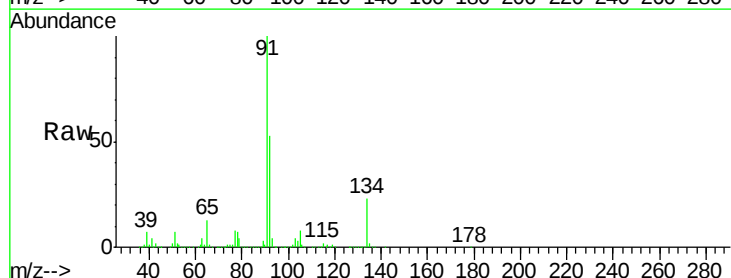


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

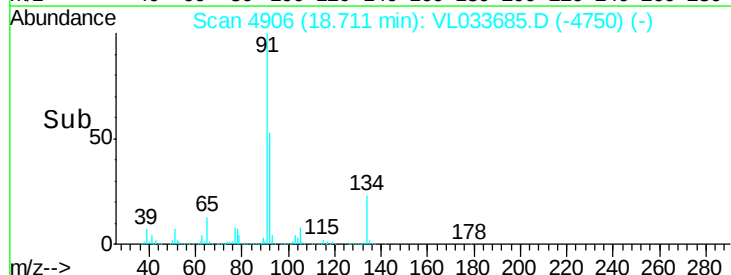
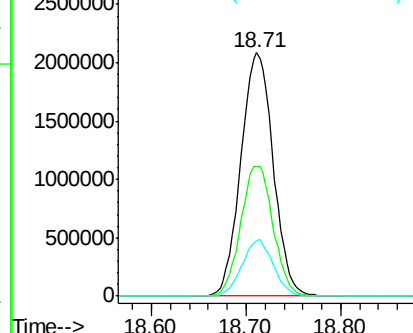


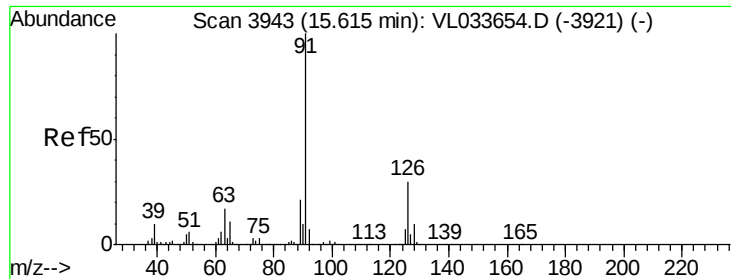
#70
 n-Butylbenzene
 Concen: 9.910 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	42.5	63.7
134	22.4	18.0	27.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





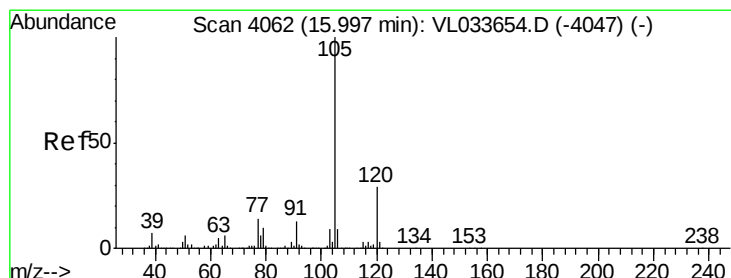
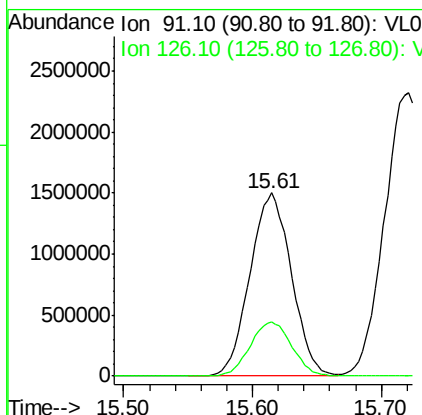
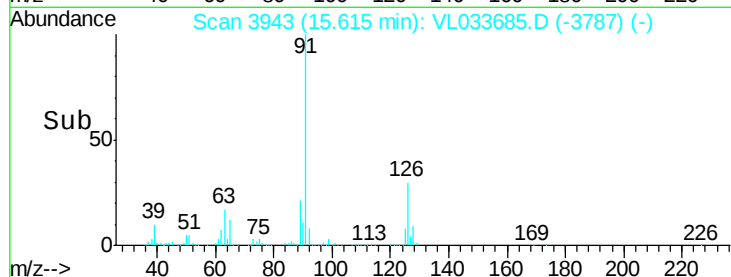
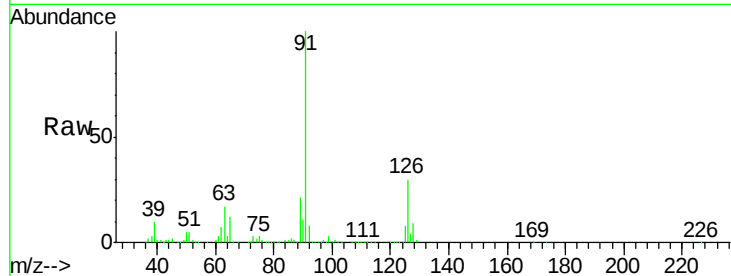
#71
 2-Chlorotoluene
 Concen: 10.183 ppbv
 RT: 15.61 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 3365204
 Ion Ratio Lower Upper
 91 100
 126 29.8 12.0 47.8

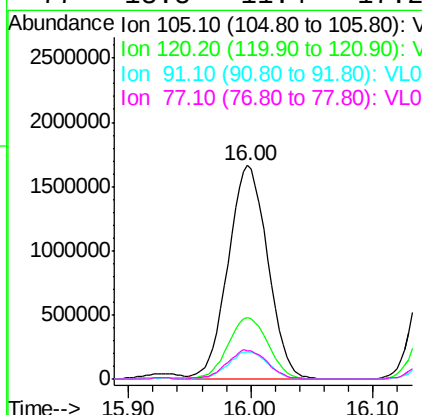
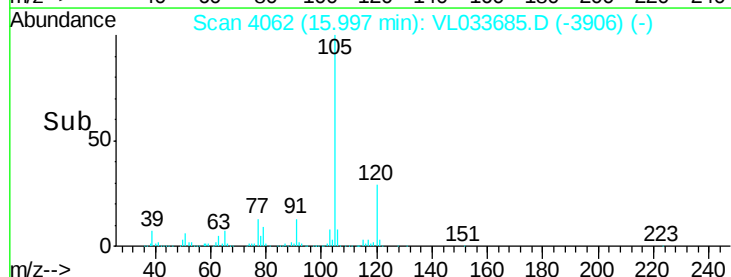
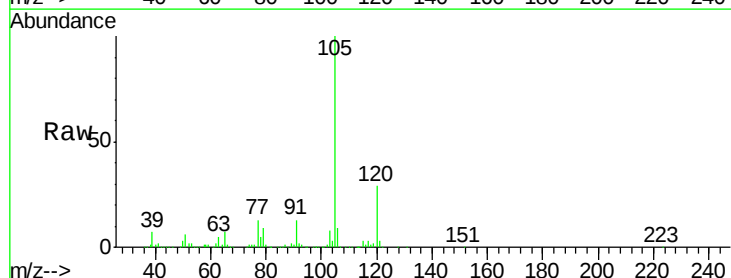
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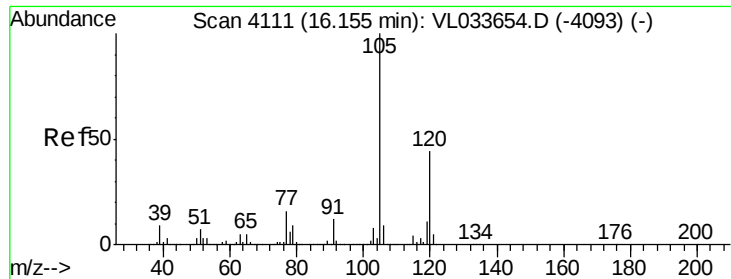
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#72
 4-Ethyltoluene
 Concen: 9.691 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion: 105 Resp: 3731797
 Ion Ratio Lower Upper
 105 100
 120 29.2 23.0 34.6
 91 13.0 10.5 15.7
 77 13.8 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 9.526 ppbv

RT: 16.16 min Scan# 4111

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3546803

Ion Ratio Lower Upper

105 100

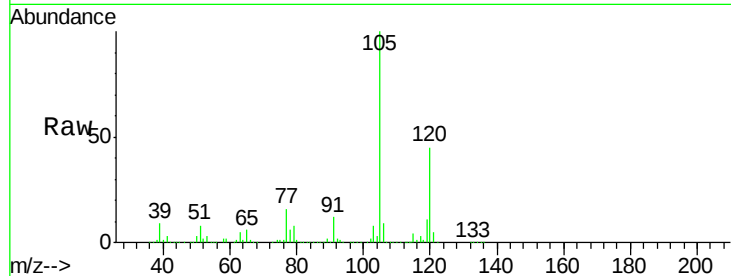
120 44.6 35.5 53.3

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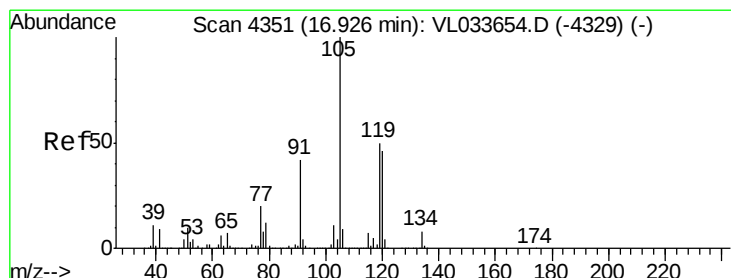
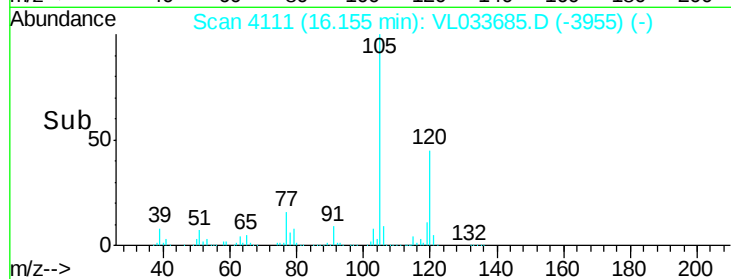
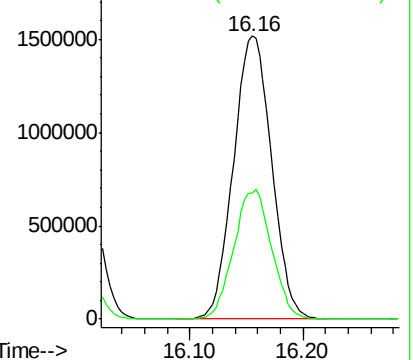
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.352 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tgt Ion:105 Resp: 3870290

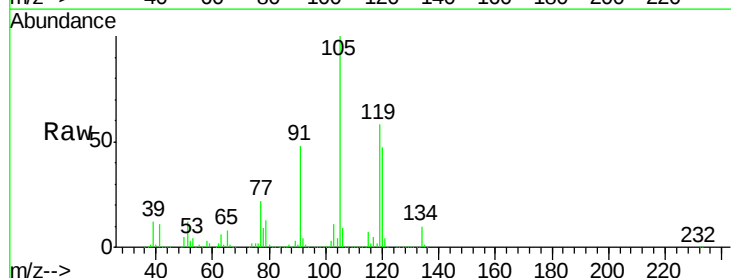
Ion Ratio Lower Upper

105 100

120 47.2 36.5 54.7

91 47.9 33.7 50.5

77 21.8 16.3 24.5

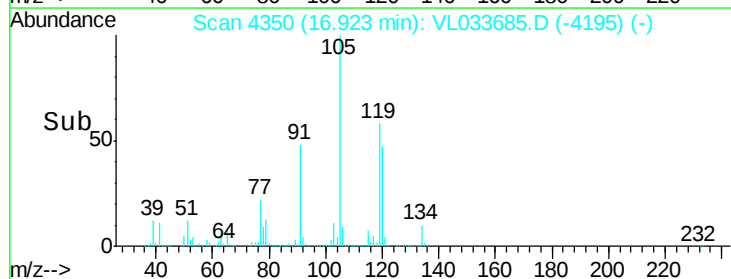
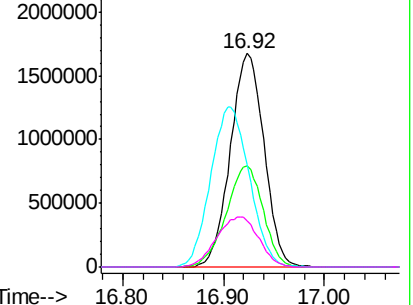


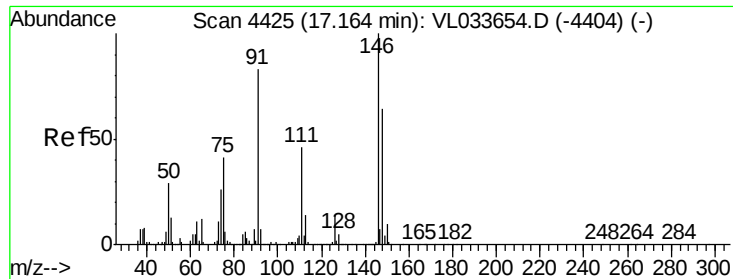
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.109 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2276896

Ion Ratio Lower Upper

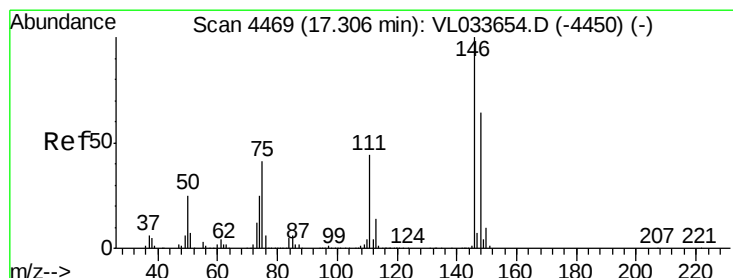
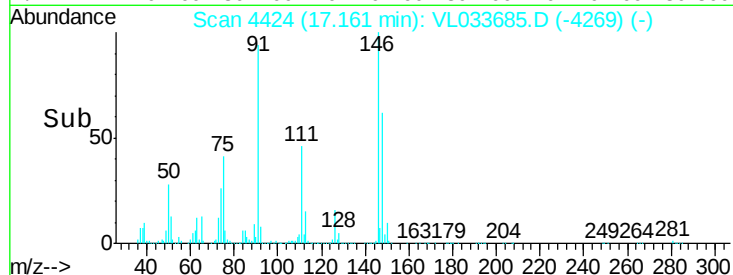
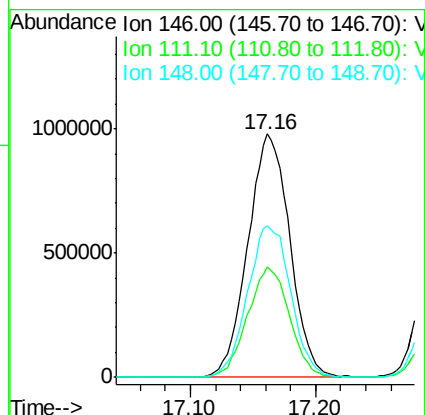
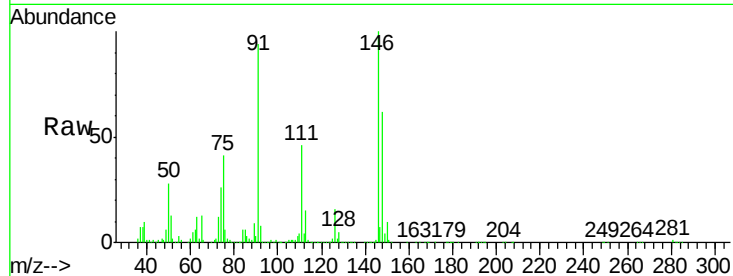
146 100

111 45.2 22.6 67.7

148 64.2 31.8 95.4

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#76

1,4-Dichlorobenzene

Concen: 9.478 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

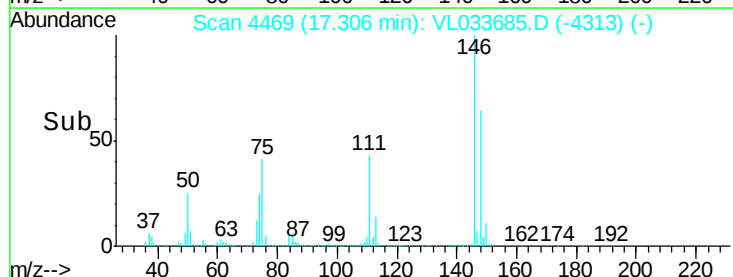
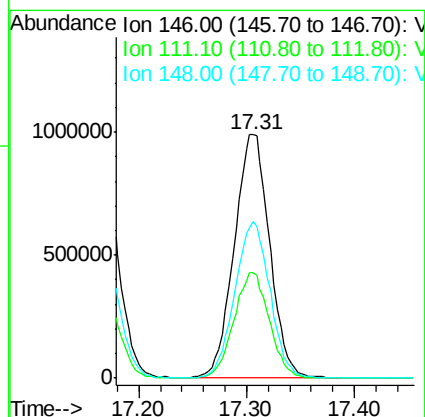
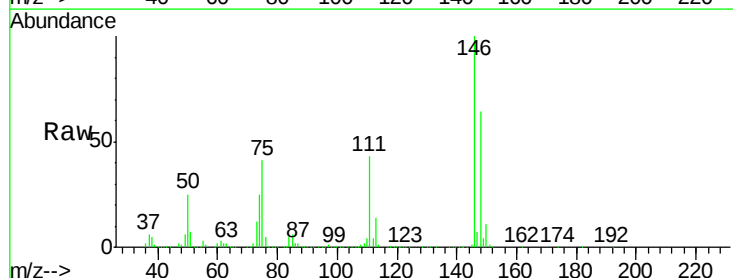
Tgt Ion:146 Resp: 2248458

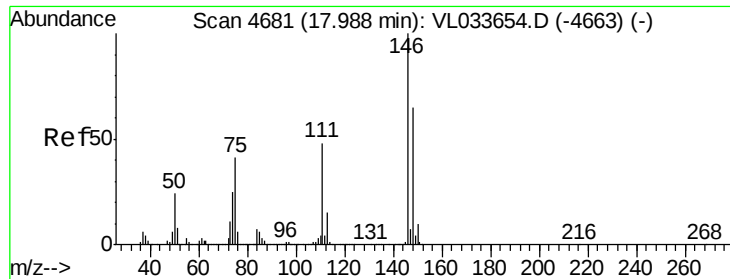
Ion Ratio Lower Upper

146 100

111 43.7 22.0 66.0

148 64.0 32.1 96.5





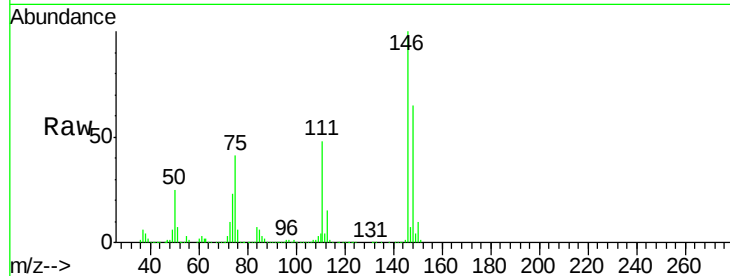
#77
 1,2-Dichlorobenzene
 Concen: 8.711 ppbv
 RT: 17.98 min Scan# 4680
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.4	70.0
148	63.8	31.9	95.9

Manual Integrations
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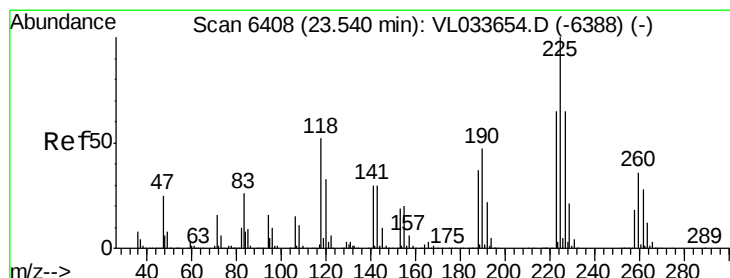
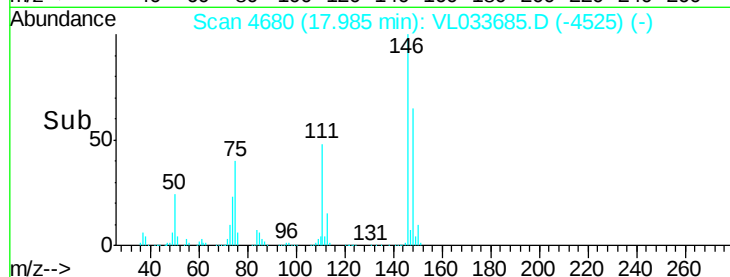
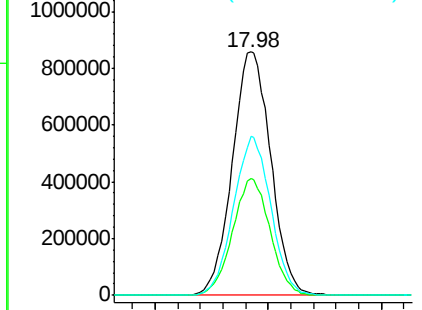


Abundance

Ion 146.00 (145.70 to 146.70): V

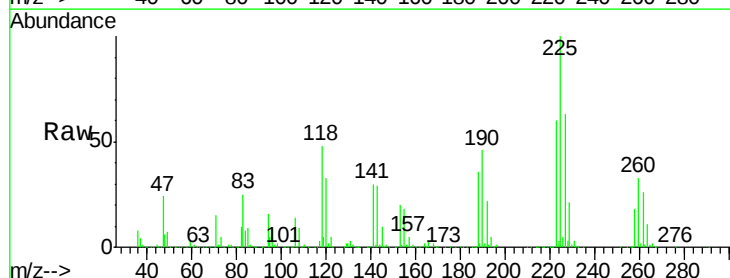
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.064 ppbv
 RT: 23.54 min Scan# 6407
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.7	76.1
227	63.6	51.4	77.2

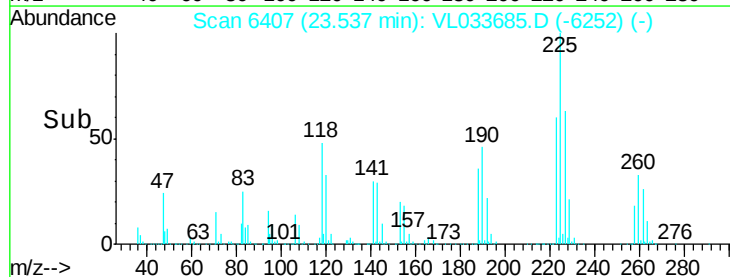
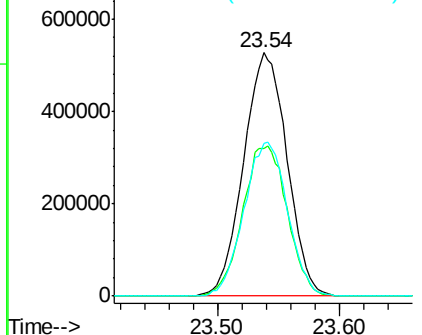


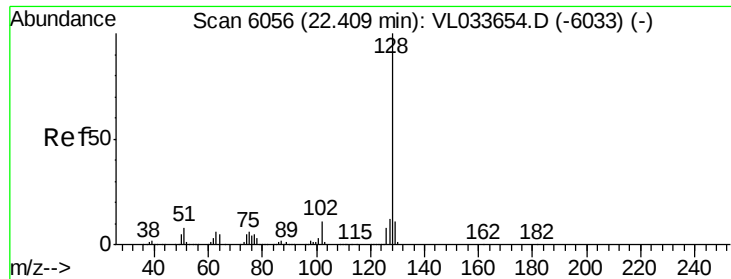
Abundance

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: 8.723 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 3296018

Ion Ratio Lower Upper

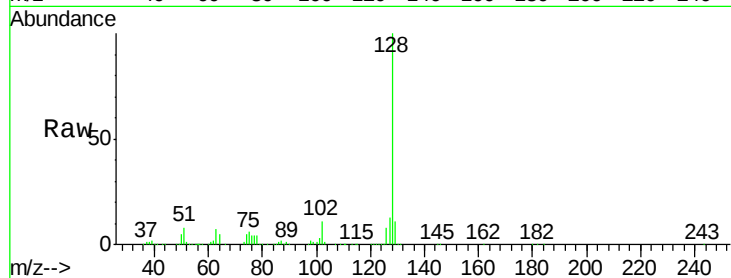
128 100

127 12.7 9.8 14.8

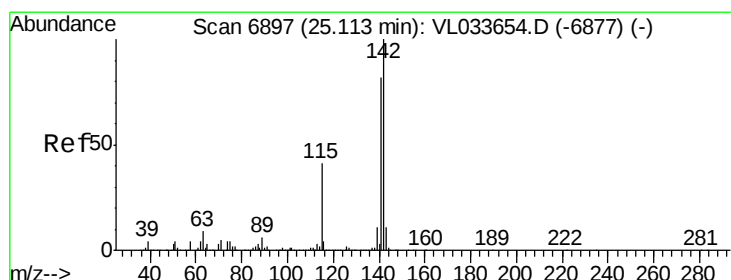
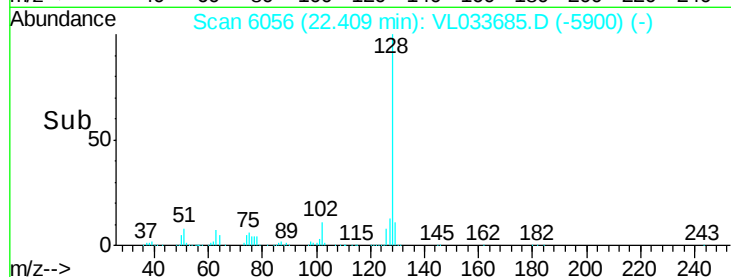
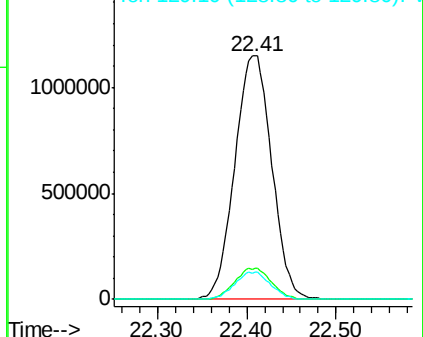
129 11.3 8.8 13.2

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



#80

Naphthalene, 2-methyl-

Concen: 8.299 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

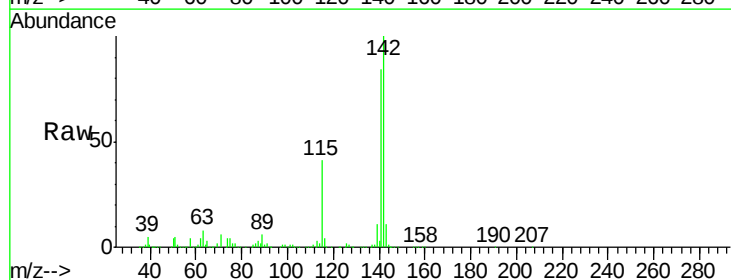
Tgt Ion:142 Resp: 1185549

Ion Ratio Lower Upper

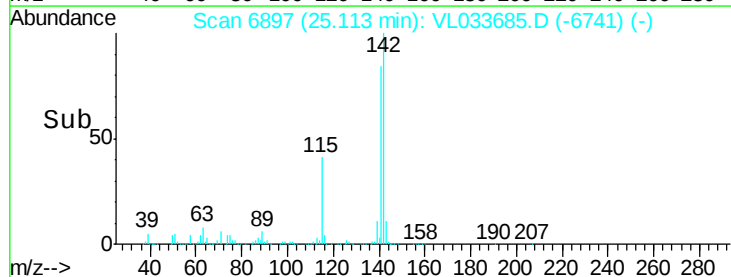
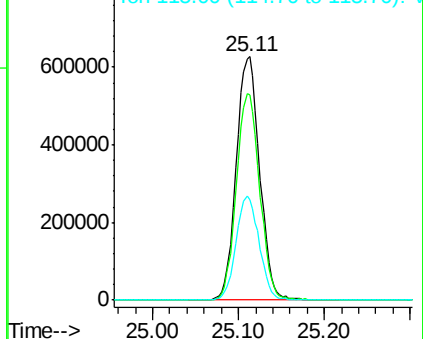
142 100

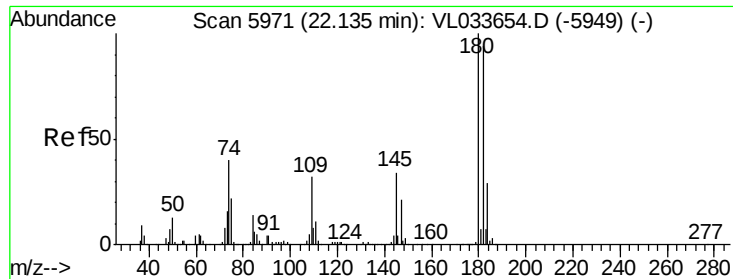
141 85.0 67.9 101.9

115 42.3 34.2 51.4



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





#81
 1,2,4-Trichlorobenzene
 Concen: 8.430 ppbv m
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:180 Resp: 1850505
 Ion Ratio Lower Upper
 180 100
 182 0.0 77.4 116.0#
 184 30.4 24.6 36.8

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 5:40:58 AM

