

Data File : VL034850.D
Acq On : 9 Mar 2020 22:26
Operator : SY/AP
Sample : VL0309ABS01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0309ABS01

Quant Time: Mar 10 09:27:00 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	916573	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2095821	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2643256	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1689028	8.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.01	85	1448992	11.545	ppbv	99
3) Chlorodifluoromethane	2.95	51	943274	9.213	ppbv	99
4) Chloromethane	3.10	50	560597	9.688	ppbv	98
5) Vinyl Chloride	3.22	62	518663	9.323	ppbv	90
6) Bromomethane	3.44	94	310693	9.594	ppbv	96
7) Chloroethane	3.52	64	190310	9.473	ppbv	100
8) Dichlorotetrafluoroethane	3.15	85	1162507	8.918	ppbv	99
9) Propene	2.97	41	450103	9.207	ppbv	98
10) Heptane	8.13	43	1151070	9.568	ppbv	99
11) Trichlorofluoromethane	3.92	101	1213371	9.087	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	854446	9.143	ppbv	99
13) Ethanol	3.57	45	99841	6.718	ppbv	100
14) Bromoethene	3.71	108	377307	9.348	ppbv	98
15) Acetone	3.82	43	1070978	9.015	ppbv	99
16) 1,3-Butadiene	3.29	39	504797	9.397	ppbv	97
17) tert-Butyl alcohol	4.27	59	870264	7.604	ppbv	99
18) 1,1-Dichloroethene	4.26	96	393850	9.516	ppbv	98
19) Isopropyl Alcohol	3.94	45	583017	7.771	ppbv	# 39
20) Methylene Chloride	4.32	84	341189	9.084	ppbv	96
21) Allyl Chloride	4.39	41	727407	9.534	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	394839	9.404	ppbv	98
23) Vinyl Acetate	5.06	43	1717172	9.785	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1075895	9.146	ppbv	99
25) Ethyl Acetate	5.66	43	1933517	9.136	ppbv	100
26) Hexane	5.67	57	848178	9.307	ppbv	100
27) Carbon Disulfide	4.53	76	1020323	9.866	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	1435294	9.465	ppbv	100
29) Chloroform	5.74	83	1271161	9.141	ppbv	96
30) Cyclohexane	7.13	84	726164	9.550	ppbv	100
31) cis-1,2-Dichloroethene	5.54	61	883397	9.478	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	1276877	9.424	ppbv	99
34) 2-Butanone	5.23	43	1307722	9.389	ppbv	99
35) Carbon Tetrachloride	7.02	117	1311544	10.061	ppbv	98
36) Benzene	6.89	78	1728612	9.253	ppbv	98
37) 1,2-Dichloroethane	6.31	62	996403	9.459	ppbv	99
38) Trichloroethene	7.84	130	669319	9.434	ppbv	99
39) 1,2-Dichloropropane	7.62	63	681776	9.211	ppbv	96
40) 1,4-Dioxane	7.84	88	120997	4.329	ppbv	# 1
41) Tetrahydrofuran	6.04	42	745384	9.891	ppbv	99
42) Bromodichloromethane	7.80	83	1365921	9.515	ppbv	99
43) Methyl Methacrylate	8.02	69	783098	9.950	ppbv	98

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	2961145	9.380	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	957830	10.359	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1096915	9.983	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	705201	9.284	ppbv	96
48) Dibromochloromethane	10.33	129	1170770	9.518	ppbv	99
49) Bromoform	13.07	173	1034090	9.428	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	1906717	9.510	ppbv	100
51) 2-Hexanone	10.15	43	1567704	9.622	ppbv	100
52) Tetrachloroethene	11.25	164	623038	8.430	ppbv	96
53) Toluene	9.82	91	2021541	9.371	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1054676	9.224	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	883047	7.437	ppbv	99
57) Chlorobenzene	12.18	112	1491811	7.213	ppbv	99
58) Ethyl Benzene	12.73	91	2654314	7.415	ppbv	99
59) m/p-Xylene	13.02	91	1939168	6.466	ppbv #	15
60) o-Xylene	13.72	91	2116978	7.230	ppbv	99
61) Styrene	13.55	104	1580682	7.692	ppbv	99
62) Isopropylbenzene	14.70	105	3172137	7.165	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1426814	7.178	ppbv	100
64) n-propylbenzene	15.59	120	833630	7.234	ppbv	98
65) tert-Butylbenzene	16.78	119	2745409	7.093	ppbv	100
66) Benzyl Chloride	17.03	91	1423453	8.820	ppbv	100
67) sec-Butylbenzene	17.33	105	3885429	7.240	ppbv	99
69) p-Isopropyltoluene	17.69	119	3304309	7.343	ppbv	100
70) n-Butylbenzene	18.59	91	3368931	7.337	ppbv	100
71) 2-Chlorotoluene	15.49	91	2376287	7.087	ppbv	100
72) 4-Ethyltoluene	15.87	105	2559817	7.403	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2378629	7.348	ppbv	99
74) 1,2,4-Trimethylbenzene	16.80	105	2455876	7.364	ppbv	97
75) 1,3-Dichlorobenzene	17.03	146	1436161	7.142	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1451454	7.233	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1425318	7.312	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	1291798	7.935	ppbv	100
79) Naphthalene	22.25	128	2554761	9.823	ppbv	99
80) Naphthalene,2-methyl-	25.01	142	975001	14.345	ppbv	100
81) 1,2,4-Trichlorobenzene	21.98	180	1472596	8.912	ppbv	99

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

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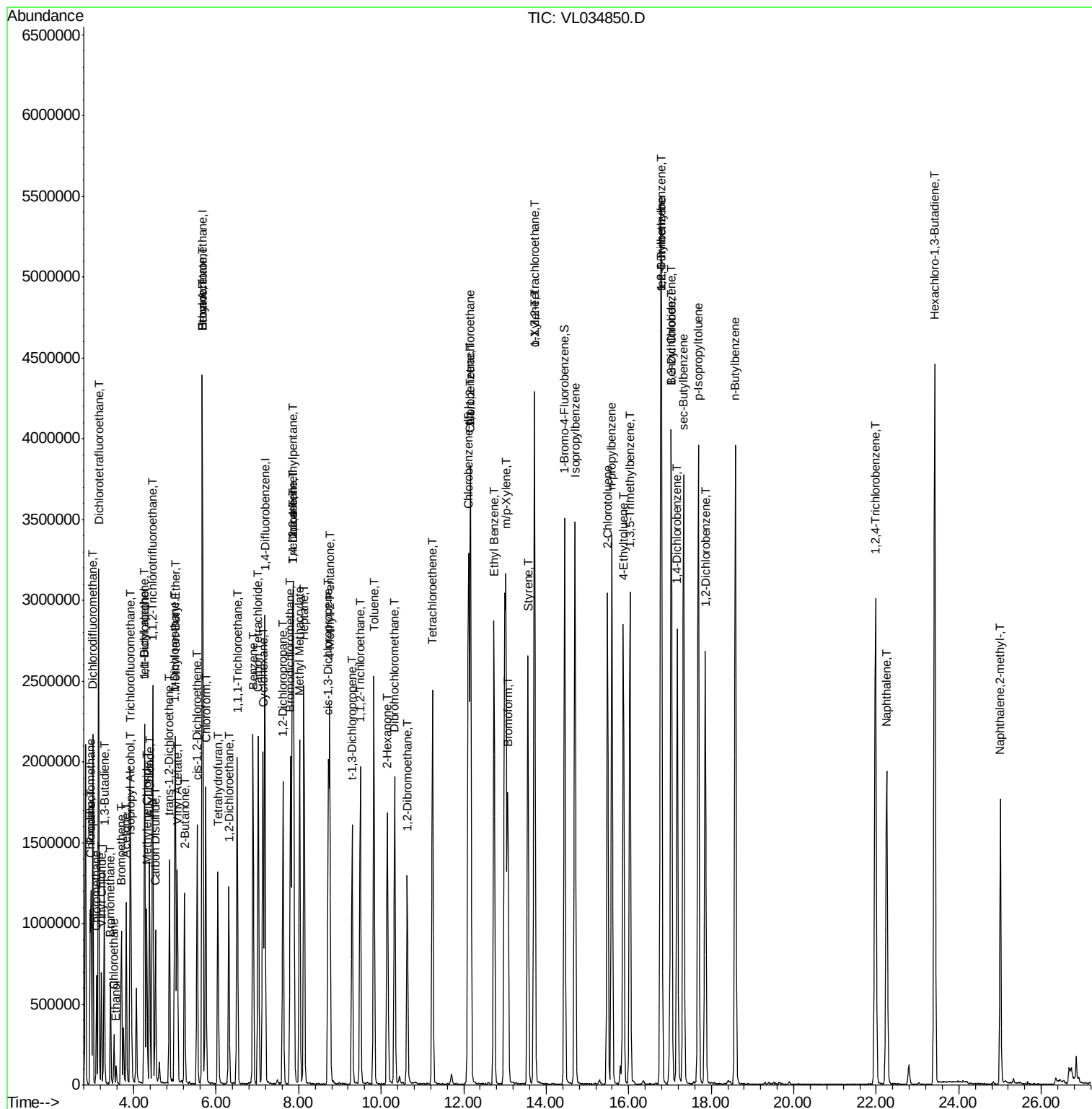
Quant Time: Mar 10 09:27:00 2020

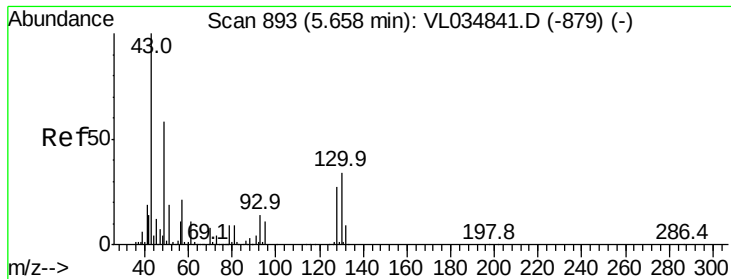
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL030920AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

VL0309ABS01

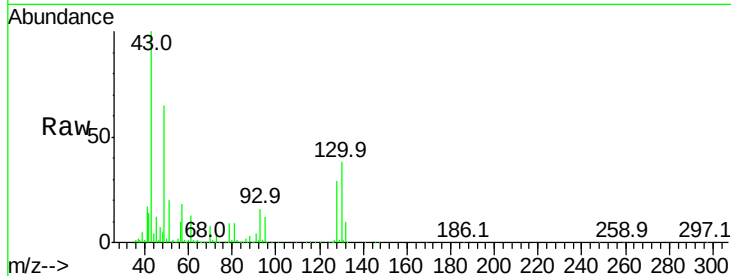
Tgt Ion: 49 Resp: 916573

Ion Ratio Lower Upper

49 100

128 45.8 23.4 70.3

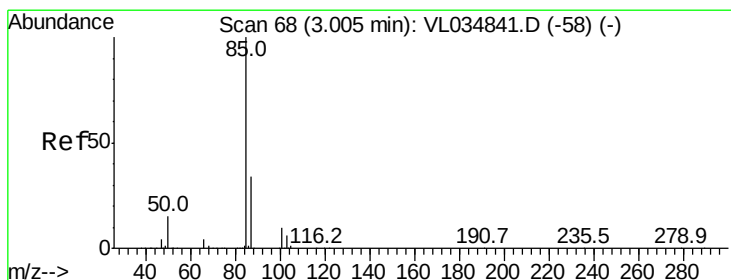
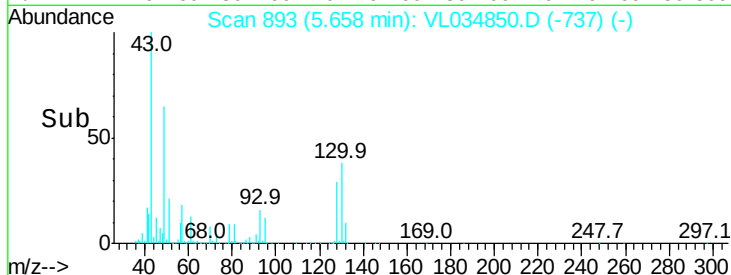
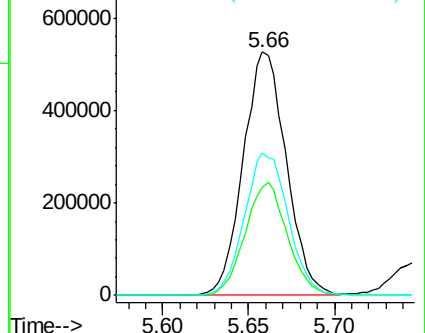
130 59.8 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 11.545 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL034850.D

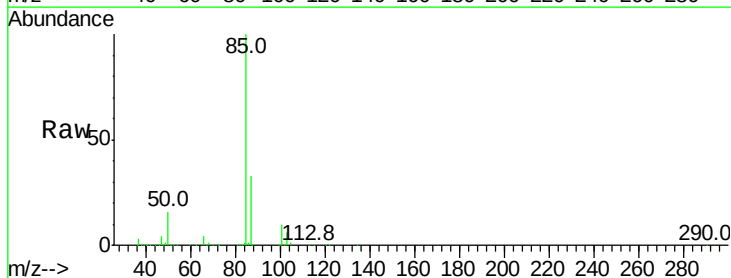
Acq: 9 Mar 2020 22:26

Tgt Ion: 85 Resp: 1448992

Ion Ratio Lower Upper

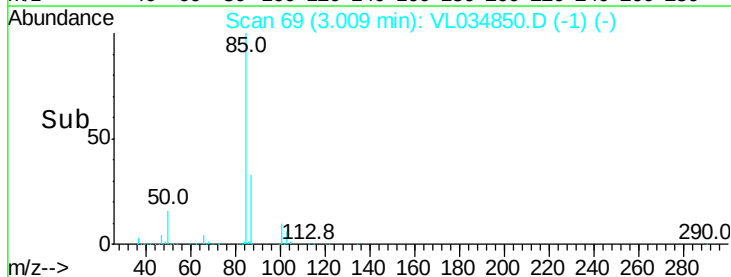
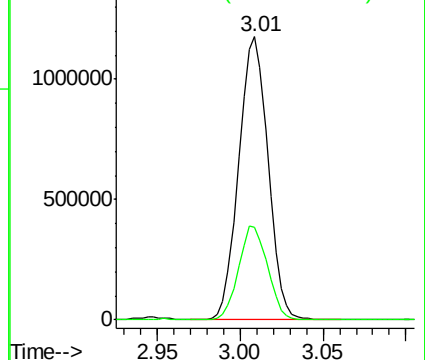
85 100

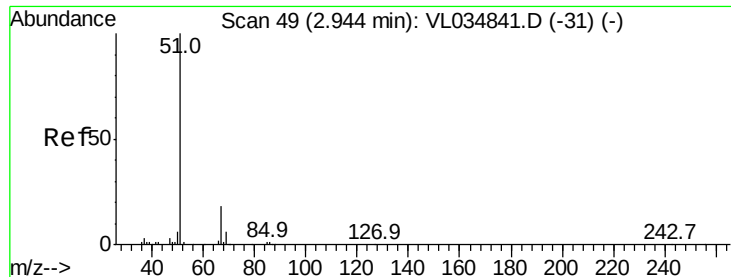
87 32.8 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.213 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

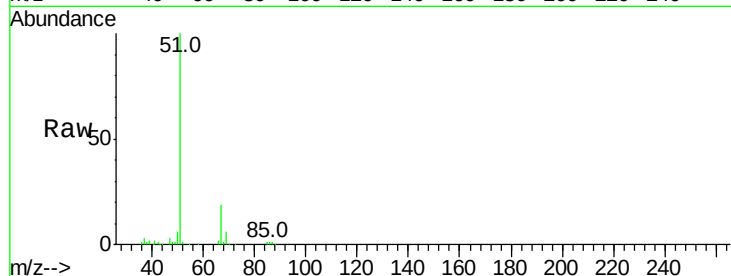
VL0309ABS01

Tgt Ion: 51 Resp: 943274

Ion Ratio Lower Upper

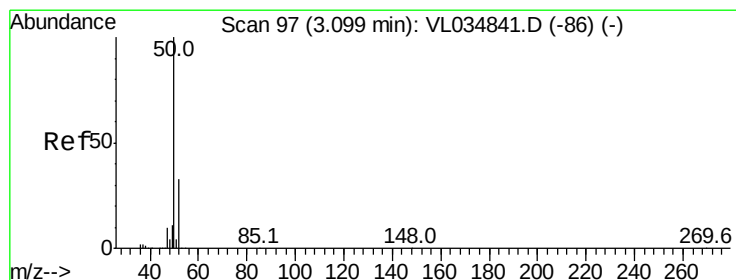
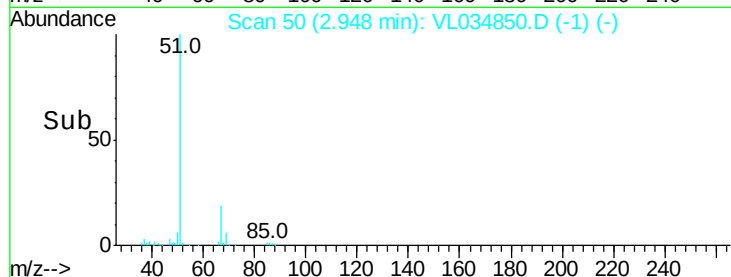
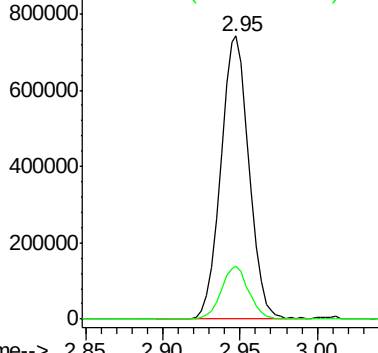
51 100

67 18.2 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.688 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034850.D

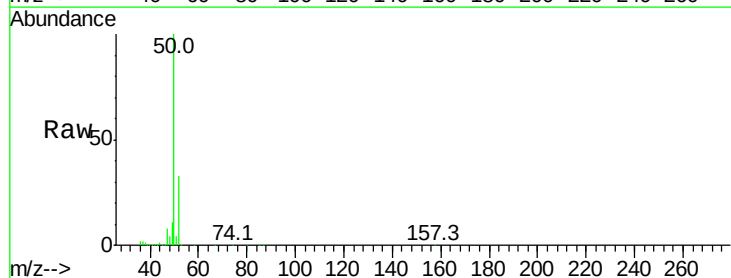
Acq: 9 Mar 2020 22:26

Tgt Ion: 50 Resp: 560597

Ion Ratio Lower Upper

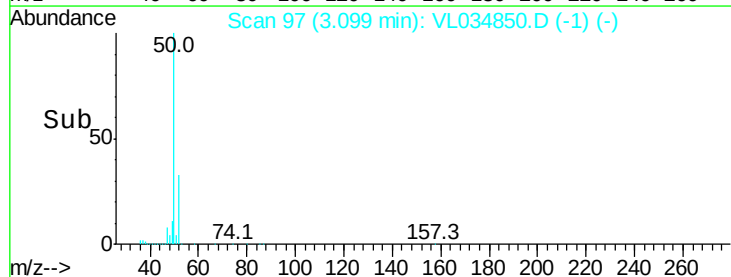
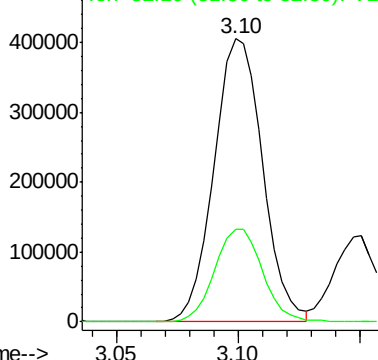
50 100

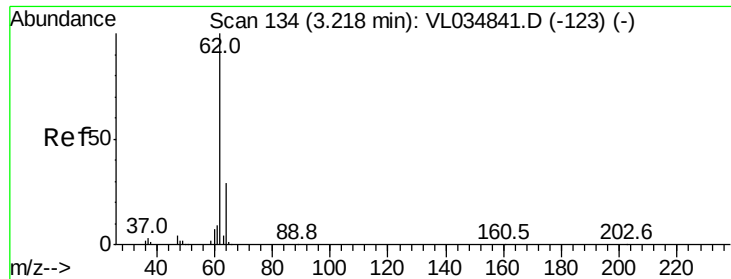
52 32.6 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.323 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

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ClientSampleId :

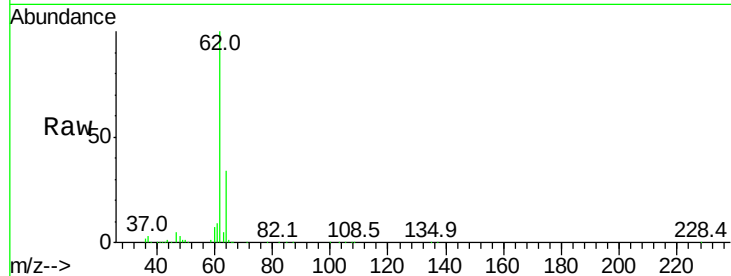
VL0309ABS01

Tgt Ion: 62 Resp: 518663

Ion Ratio Lower Upper

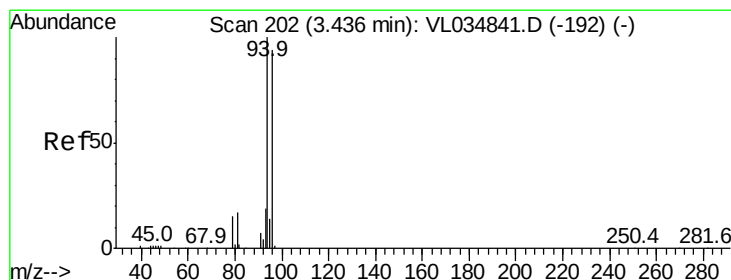
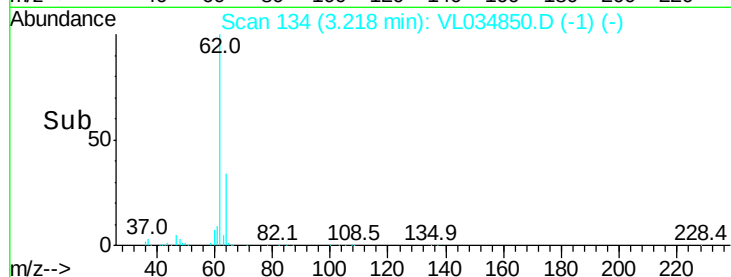
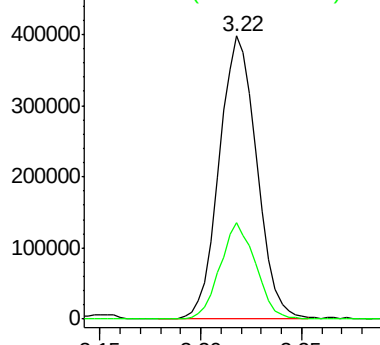
62 100

64 34.0 23.0 34.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.594 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034850.D

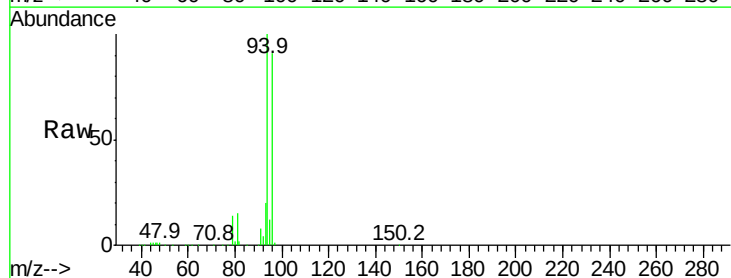
Acq: 9 Mar 2020 22:26

Tgt Ion: 94 Resp: 310693

Ion Ratio Lower Upper

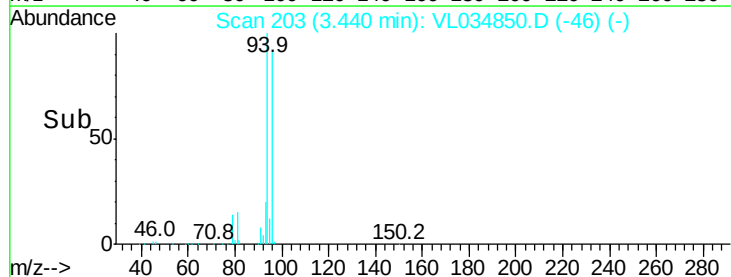
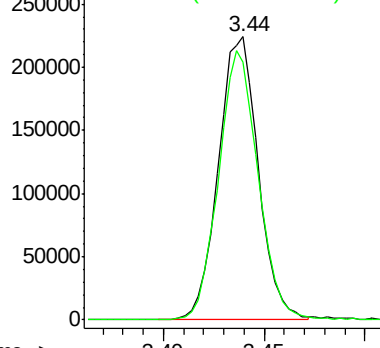
94 100

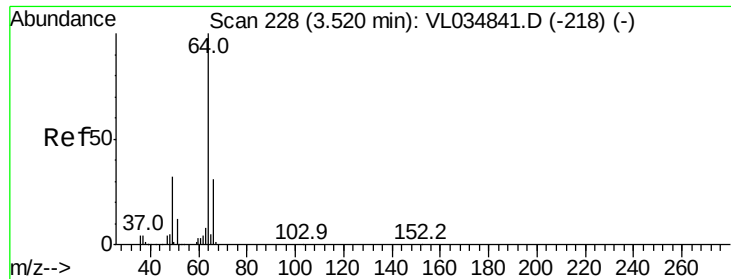
96 90.9 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.473 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

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ClientSampleId :

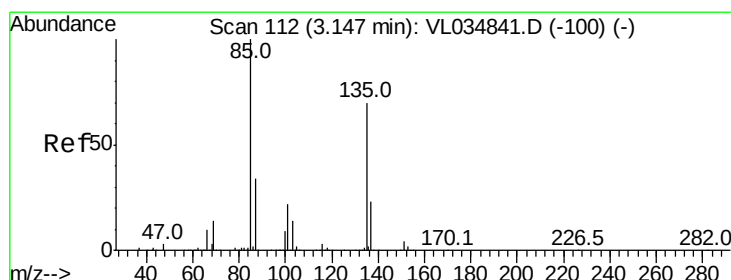
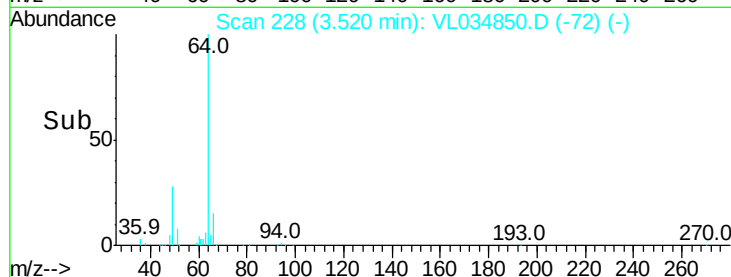
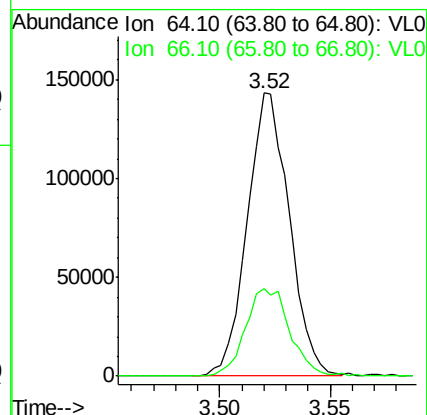
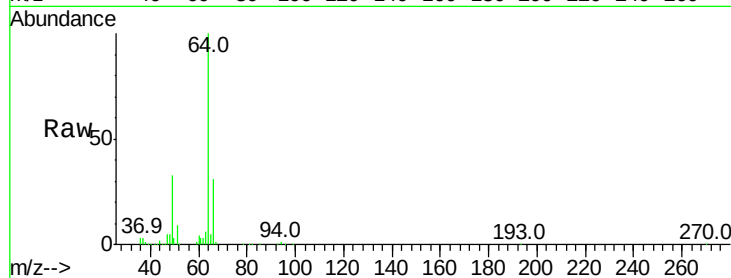
VL0309ABS01

Tgt Ion: 64 Resp: 190310

Ion Ratio Lower Upper

64 100

66 30.9 24.8 37.2



#8

Dichlorotetrafluoroethane

Concen: 8.918 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034850.D

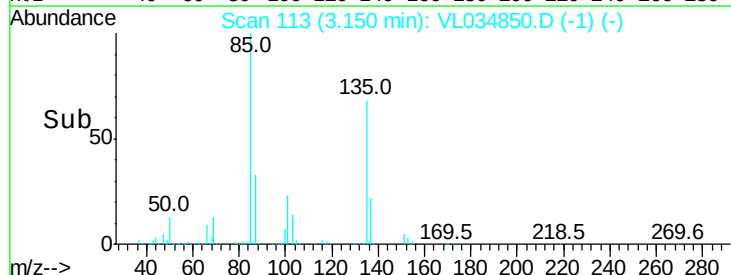
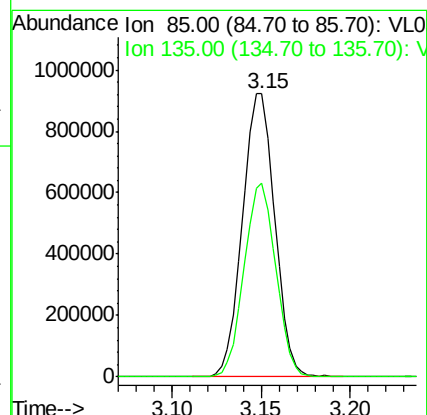
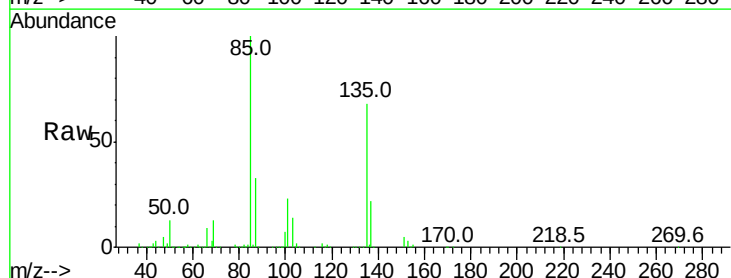
Acq: 9 Mar 2020 22:26

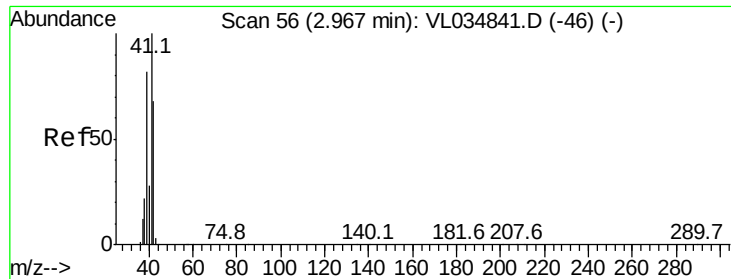
Tgt Ion: 85 Resp: 1162507

Ion Ratio Lower Upper

85 100

135 67.5 54.3 81.5





#9

Propene

Concen: 9.207 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

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Instrument :

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ClientSampleId :

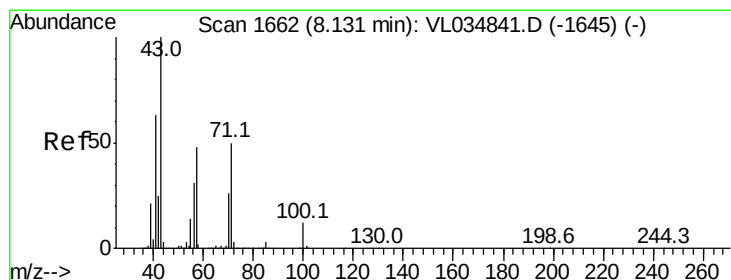
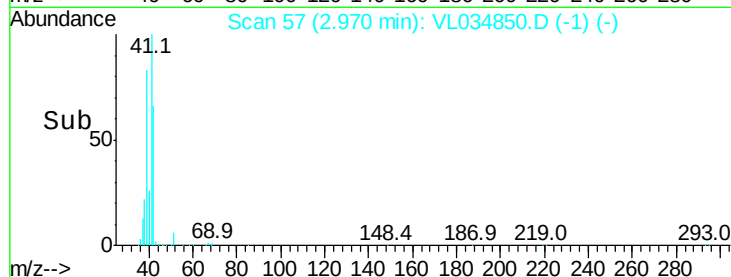
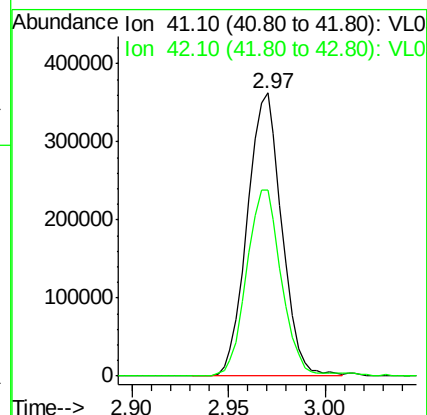
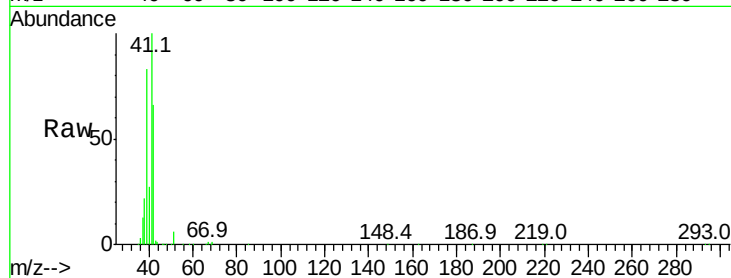
VL0309ABS01

Tgt Ion: 41 Resp: 450103

Ion Ratio Lower Upper

41 100

42 67.4 55.2 82.8



#10

Heptane

Concen: 9.568 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL034850.D

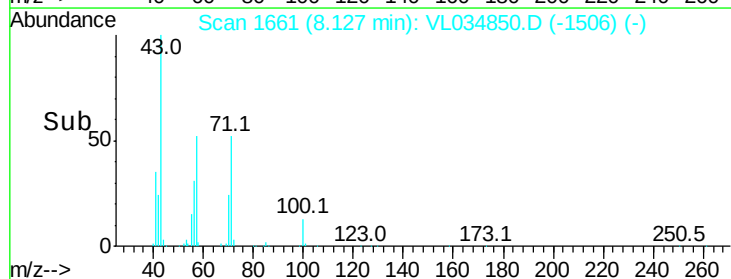
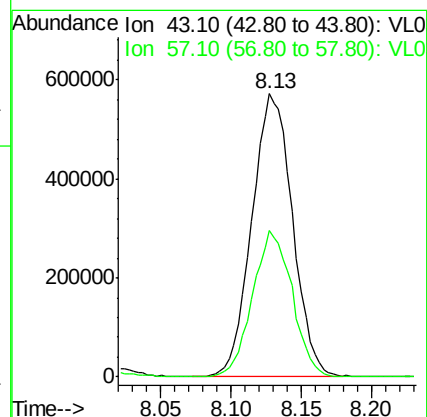
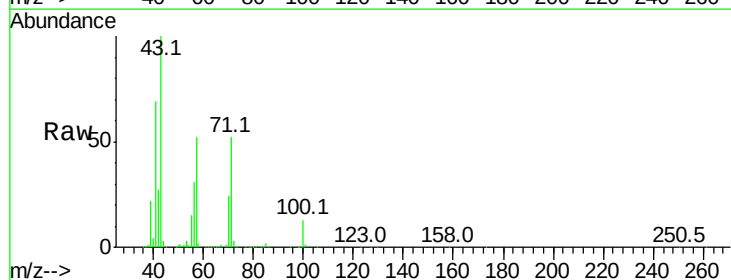
Acq: 9 Mar 2020 22:26

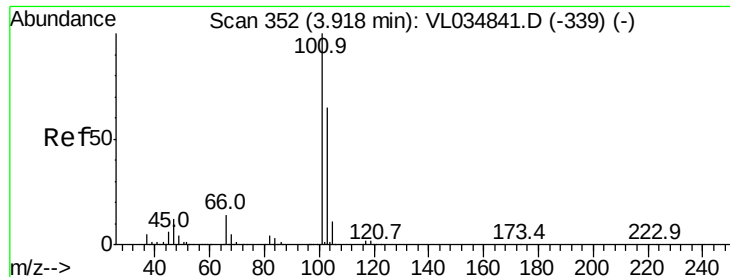
Tgt Ion: 43 Resp: 1151070

Ion Ratio Lower Upper

43 100

57 50.4 39.7 59.5





#11

Trichlorofluoromethane

Concen: 9.087 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

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ClientSampleId :

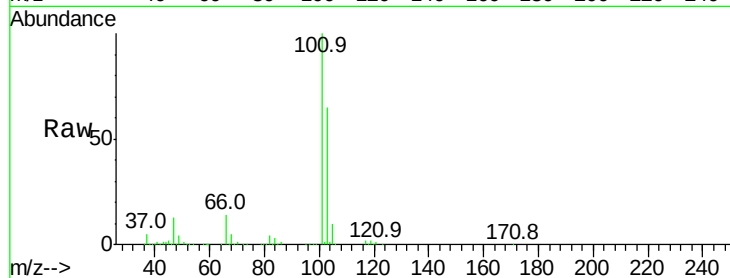
VL0309ABS01

Tgt Ion:101 Resp: 1213371

Ion Ratio Lower Upper

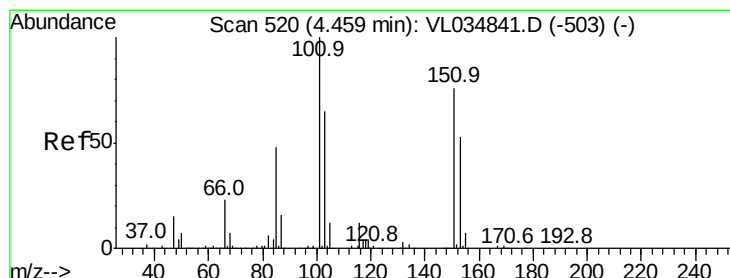
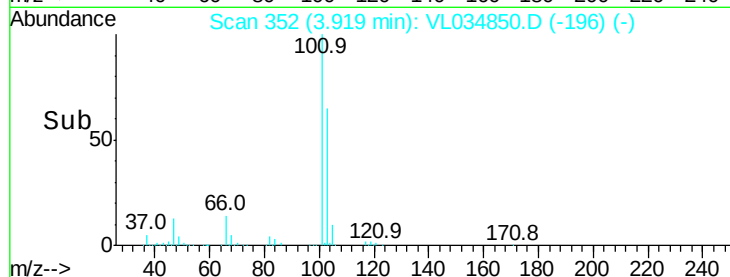
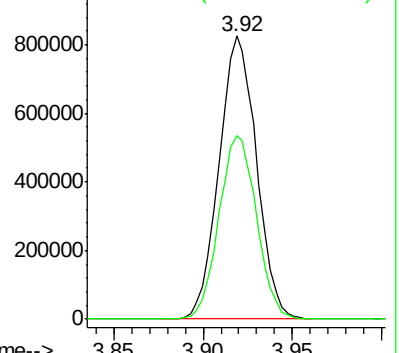
101 100

103 64.8 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.143 ppbv

RT: 4.46 min Scan# 520

Delta R.T. 0.00 min

Lab File: VL034850.D

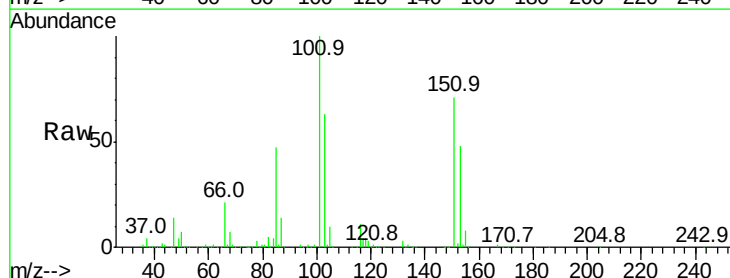
Acq: 9 Mar 2020 22:26

Tgt Ion:101 Resp: 854446

Ion Ratio Lower Upper

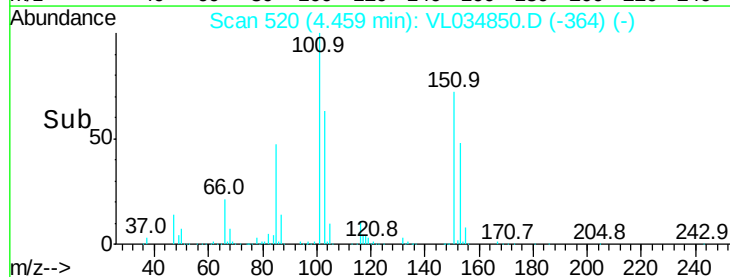
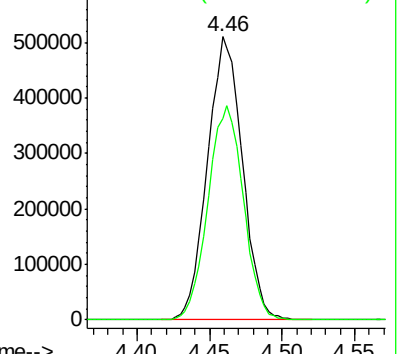
101 100

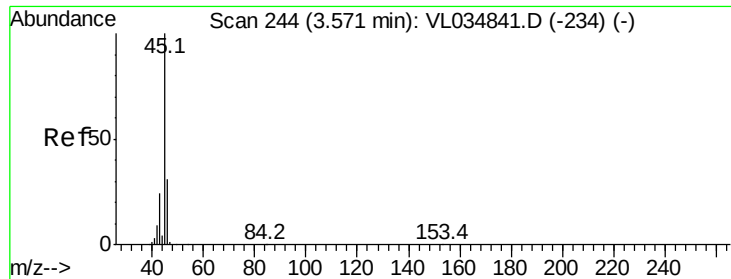
151 76.8 60.8 91.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 6.718 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

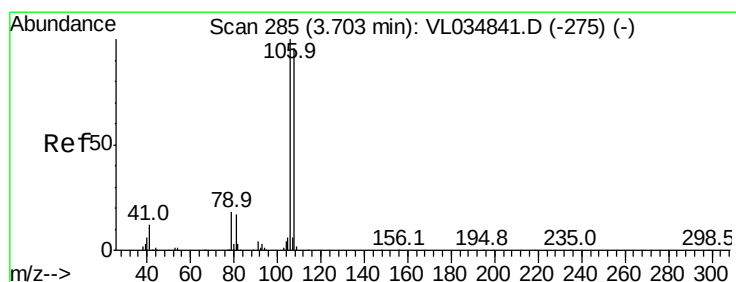
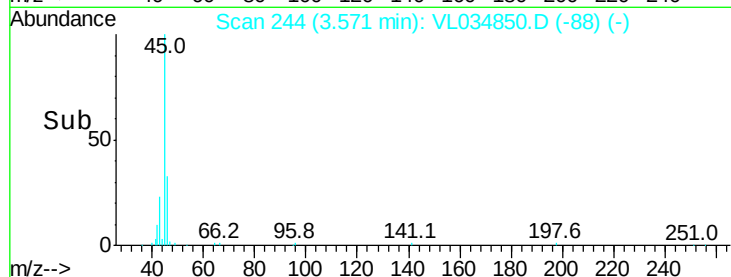
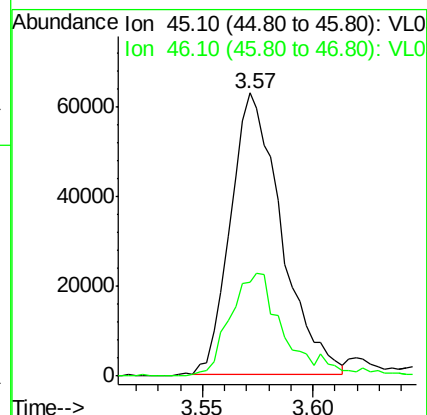
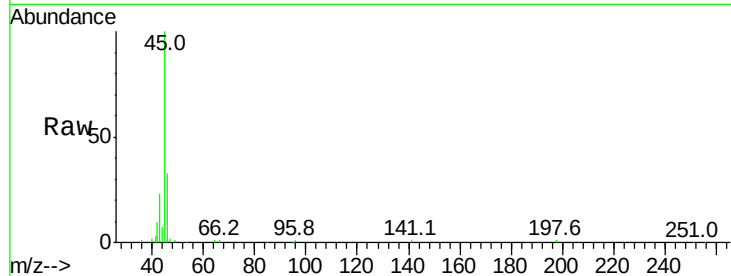
VL0309ABS01

Tgt Ion: 45 Resp: 99841

Ion Ratio Lower Upper

45 100

46 40.3 16.0 64.0



#14

Bromoethene

Concen: 9.348 ppbv

RT: 3.71 min Scan# 286

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

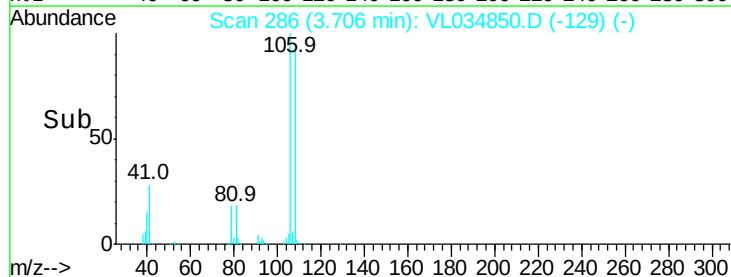
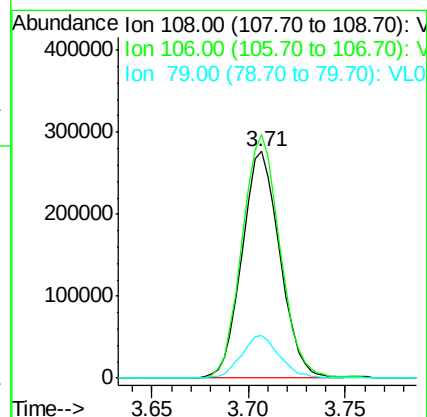
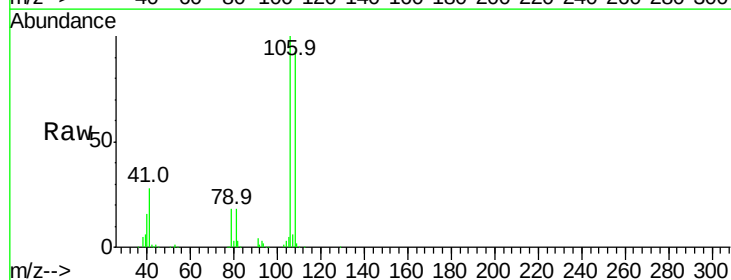
Tgt Ion: 108 Resp: 377307

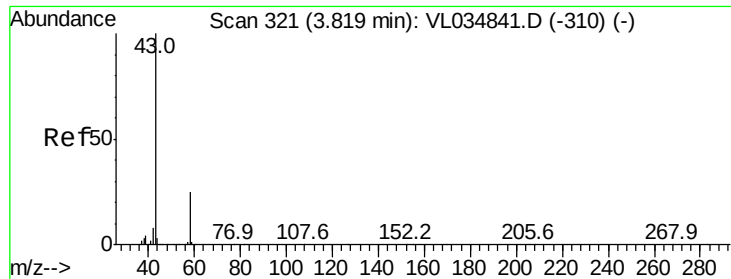
Ion Ratio Lower Upper

108 100

106 108.2 85.1 127.7

79 18.8 14.7 22.1





#15

Acetone

Concen: 9.015 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

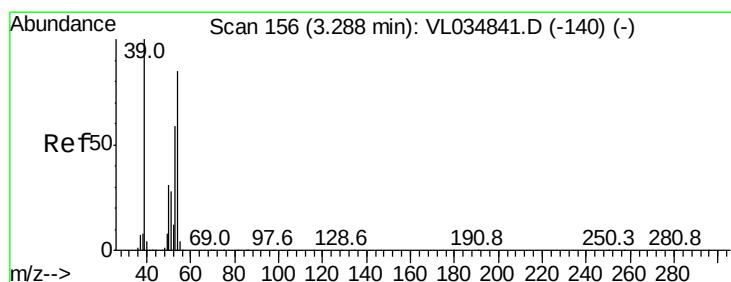
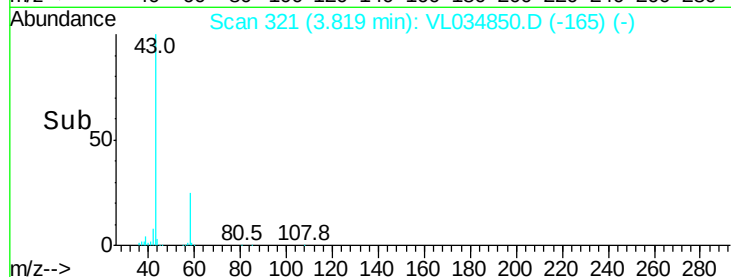
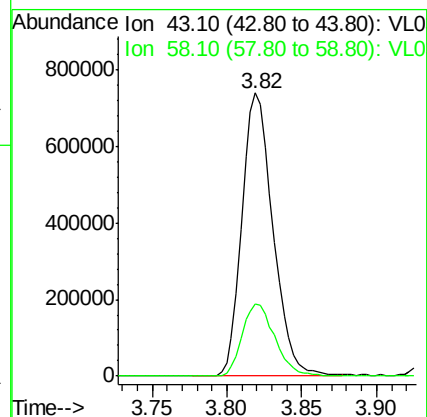
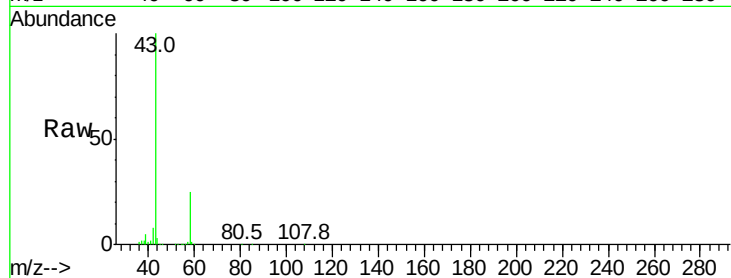
VL0309ABS01

Tgt Ion: 43 Resp: 1070978

Ion Ratio Lower Upper

43 100

58 26.9 21.0 31.6



#16

1,3-Butadiene

Concen: 9.397 ppbv

RT: 3.29 min Scan# 156

Delta R.T. 0.00 min

Lab File: VL034850.D

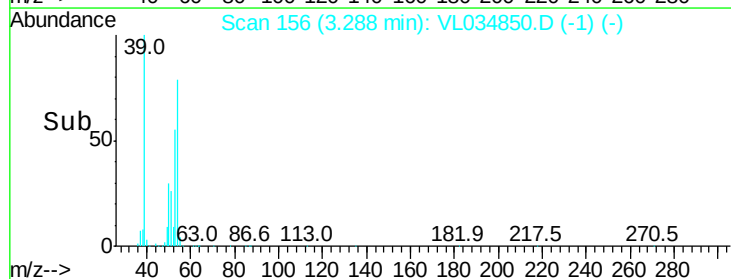
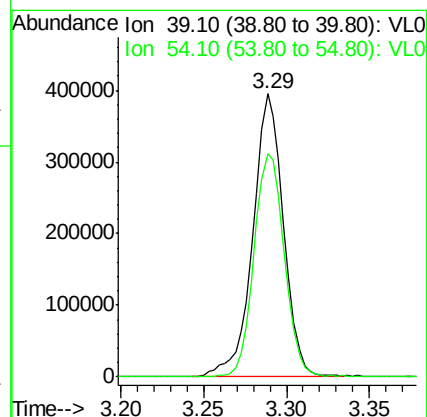
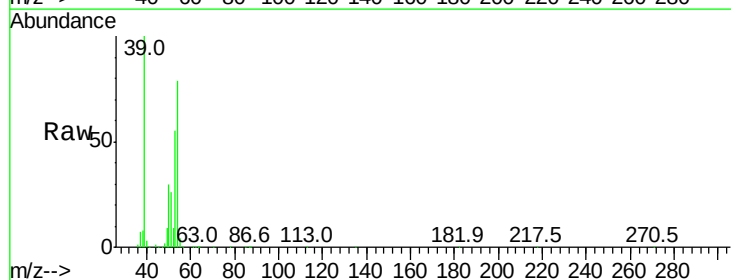
Acq: 9 Mar 2020 22:26

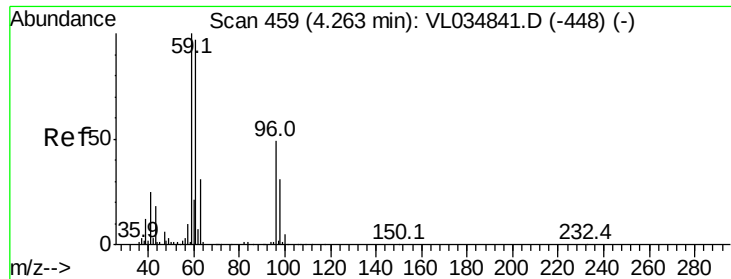
Tgt Ion: 39 Resp: 504797

Ion Ratio Lower Upper

39 100

54 78.6 65.0 97.6



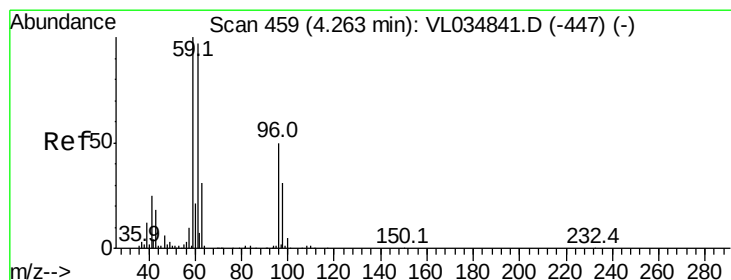
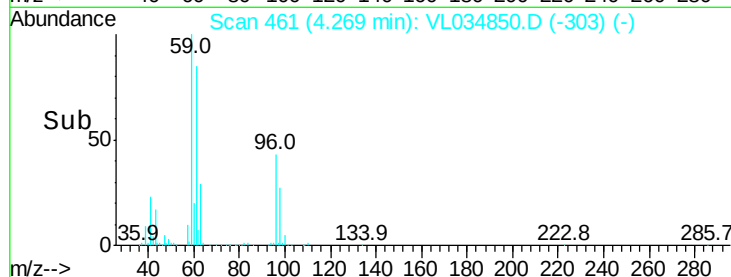
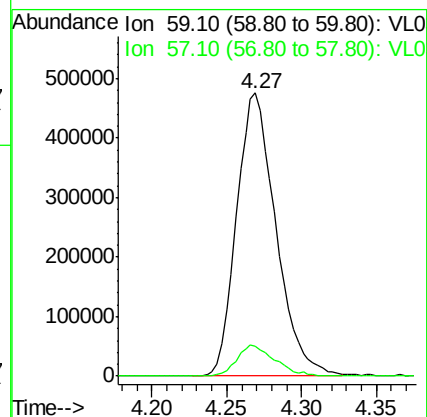
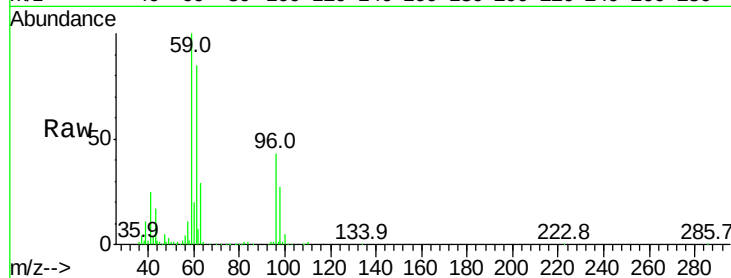


#17

tert-Butyl alcohol
 Concen: 7.604 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. 0.01 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0309ABS01

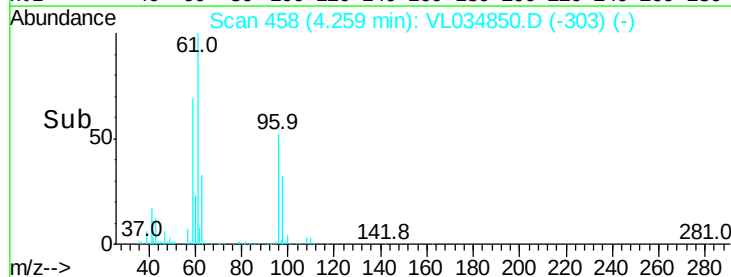
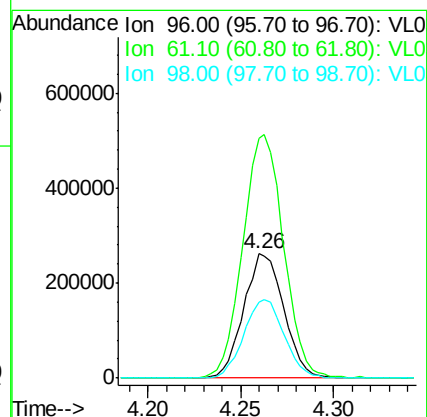
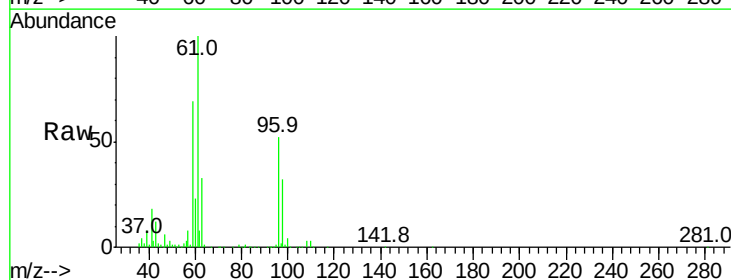
Tgt Ion: 59 Resp: 870264
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.3 12.5

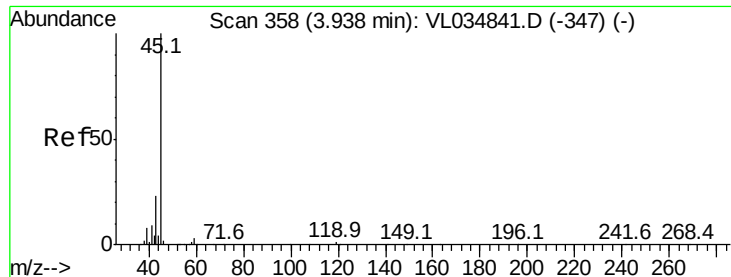


#18

1,1-Dichloroethene
 Concen: 9.516 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. -0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Tgt Ion: 96 Resp: 393850
 Ion Ratio Lower Upper
 96 100
 61 192.9 157.3 235.9
 98 60.9 50.2 75.4





#19

Isopropyl Alcohol

Concen: 7.771 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

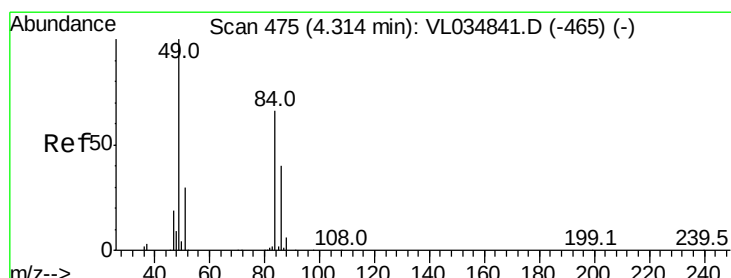
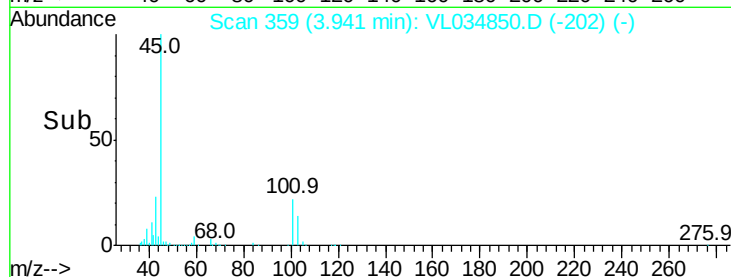
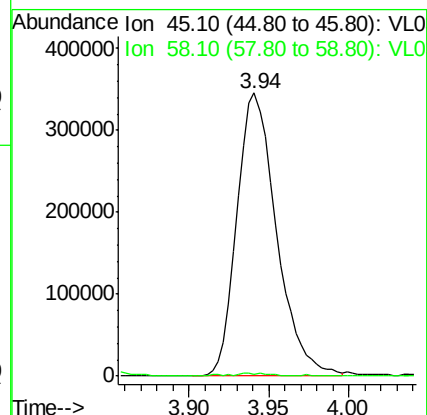
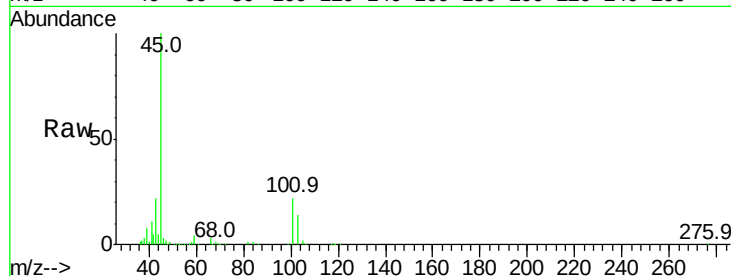
VL0309ABS01

Tgt Ion: 45 Resp: 583017

Ion Ratio Lower Upper

45 100

58 1.5 30.5 45.7#



#20

Methylene Chloride

Concen: 9.084 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Tgt Ion: 84 Resp: 341189

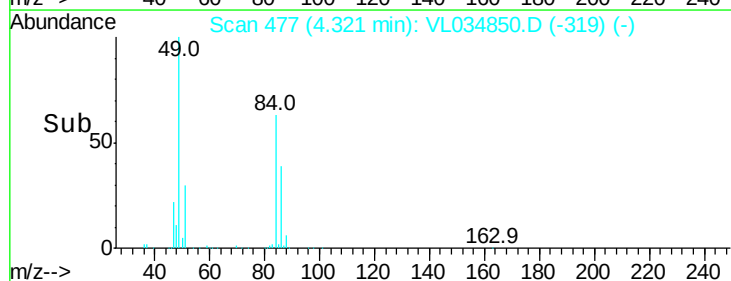
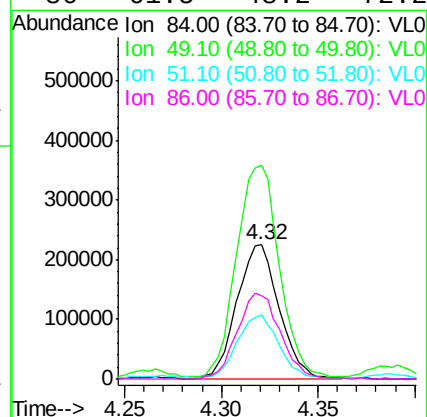
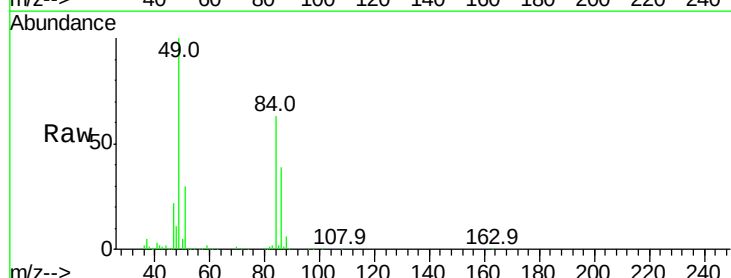
Ion Ratio Lower Upper

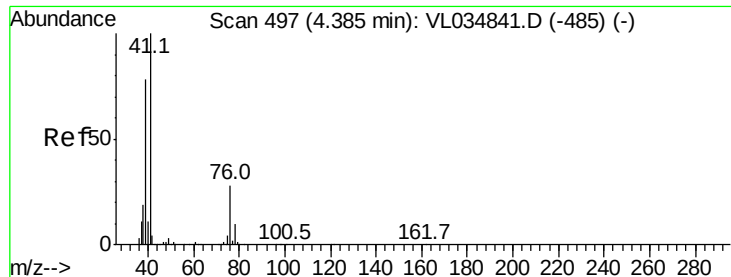
84 100

49 158.1 121.5 182.3

51 47.1 36.6 55.0

86 61.5 48.2 72.2

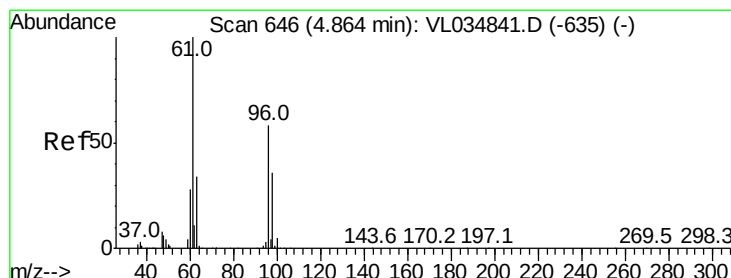
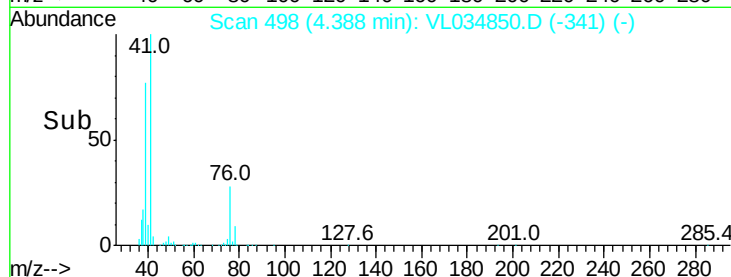
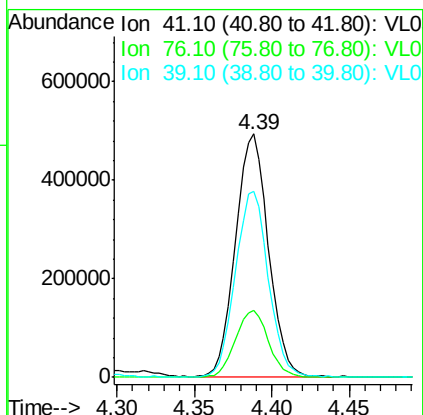
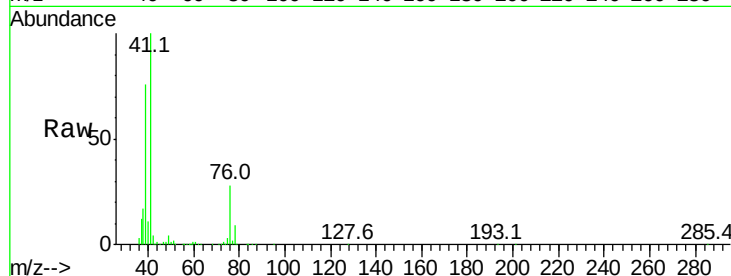




#21
 Allyl Chloride
 Concen: 9.534 ppbv
 RT: 4.39 min Scan# 498
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

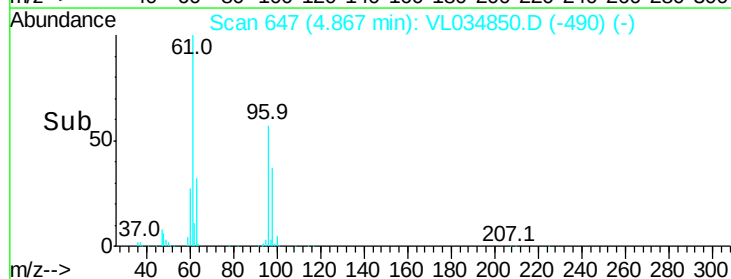
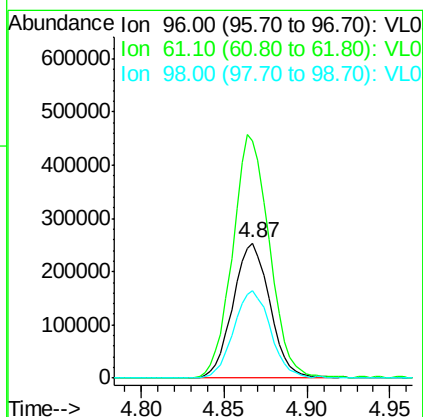
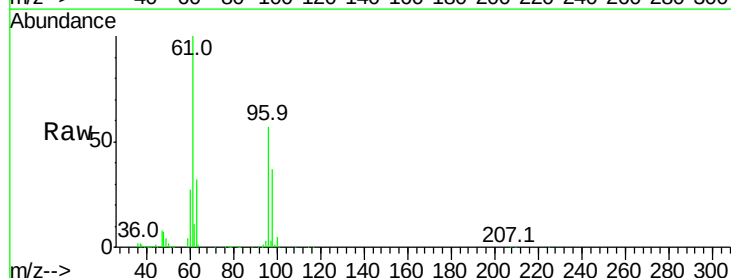
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0309ABS01

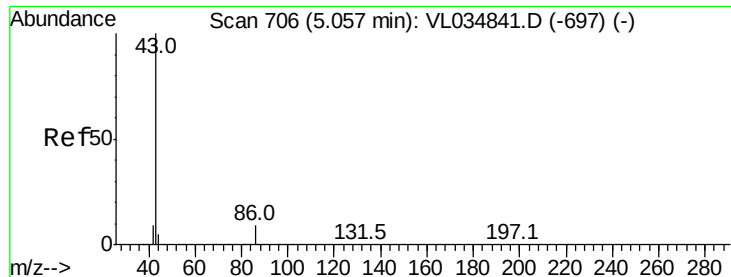
Tgt Ion	Ratio	Lower	Upper
41	100		
76	27.8	22.2	33.2
39	77.2	62.6	93.8



#22
 trans-1,2-Dichloroethene
 Concen: 9.404 ppbv
 RT: 4.87 min Scan# 647
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.4	139.0	208.6
98	65.0	50.3	75.5





#23

Vinyl Acetate

Concen: 9.785 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

VL0309ABS01

Tgt Ion: 43 Resp: 1717172

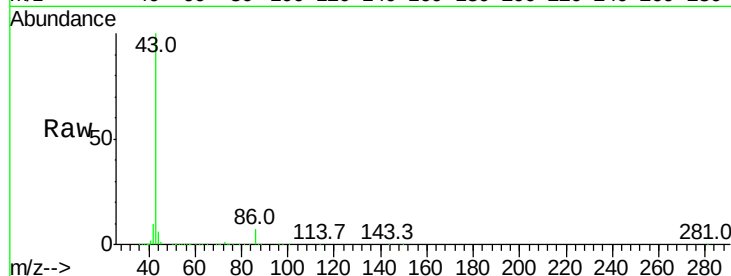
Ion Ratio Lower Upper

43 100

86 7.1 6.3 9.5

42 10.0 7.8 11.8

44 5.5 4.0 6.0

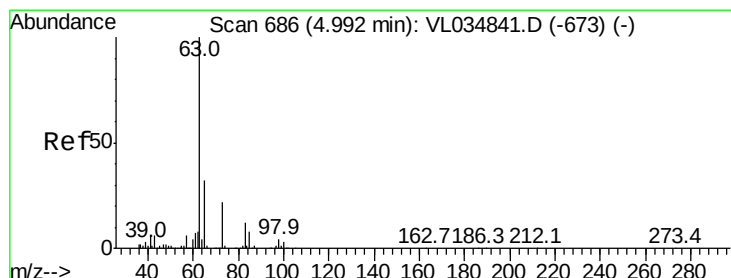
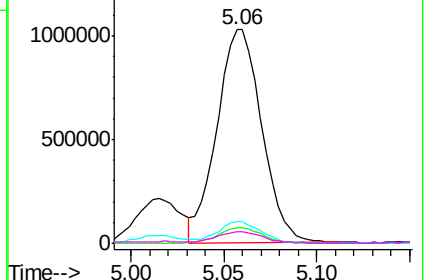
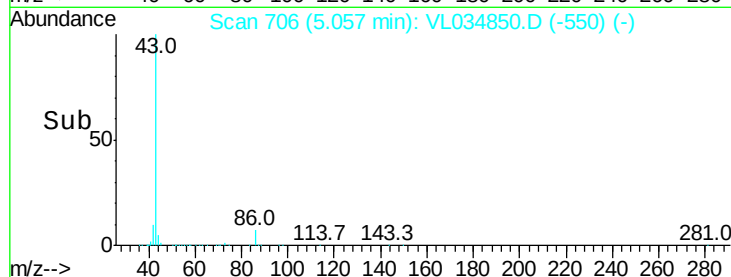


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.146 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

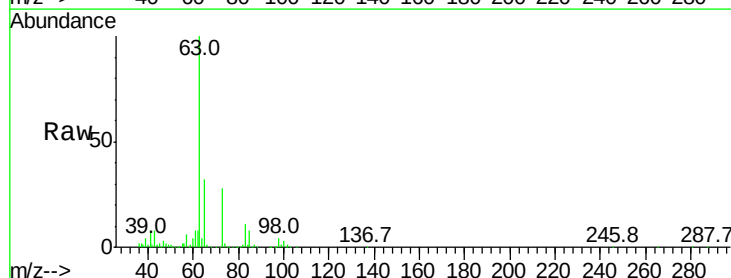
Tgt Ion: 63 Resp: 1075895

Ion Ratio Lower Upper

63 100

98 4.2 2.0 5.8

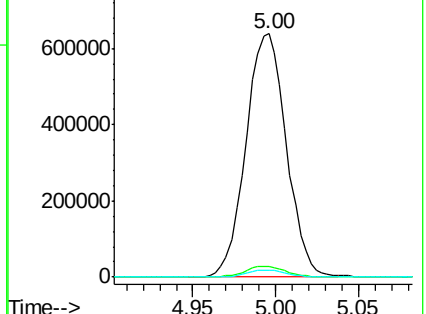
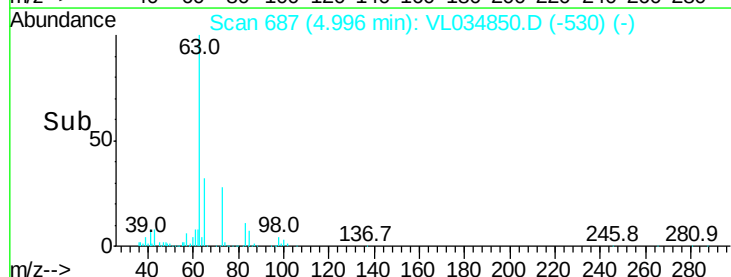
100 2.8 1.4 4.0

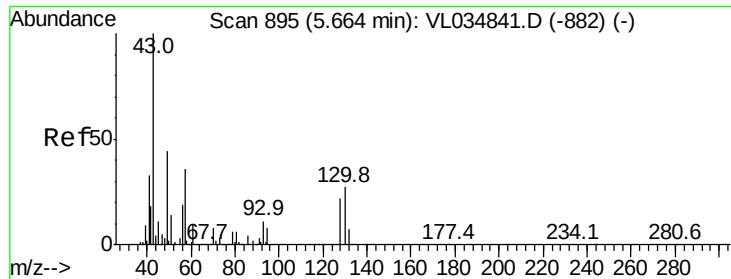


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.136 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

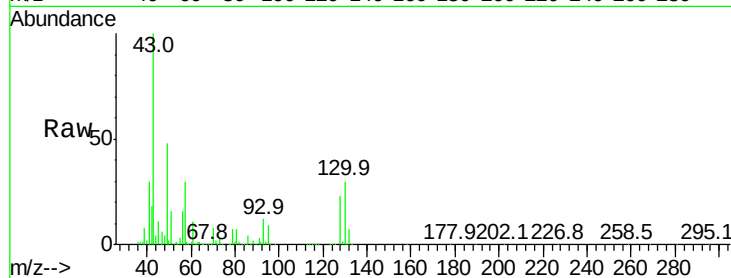
MSVOA_L

ClientSampleId :

VL0309ABS01

Tgt Ion: 43 Resp: 1933517

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.2	12.2
61	9.8	7.8	11.6
70	7.4	5.8	8.8



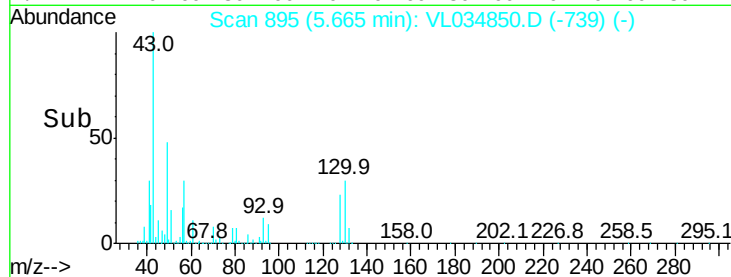
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



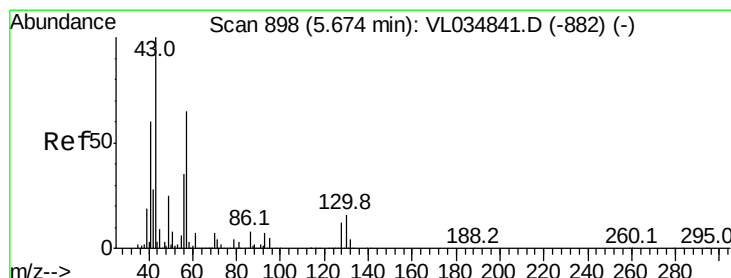
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.307 ppbv

RT: 5.67 min Scan# 898

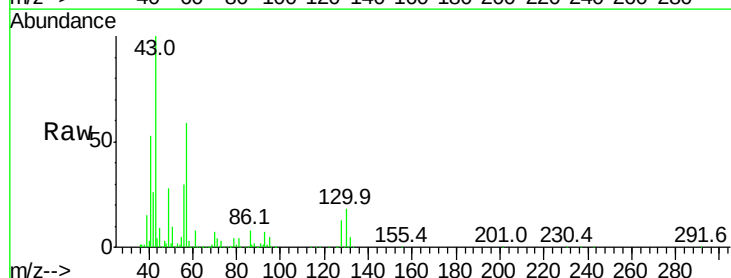
Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Tgt Ion: 57 Resp: 848178

Ion	Ratio	Lower	Upper
57	100		
41	90.1	72.6	109.0
43	229.1	183.8	275.6
56	52.3	41.9	62.9



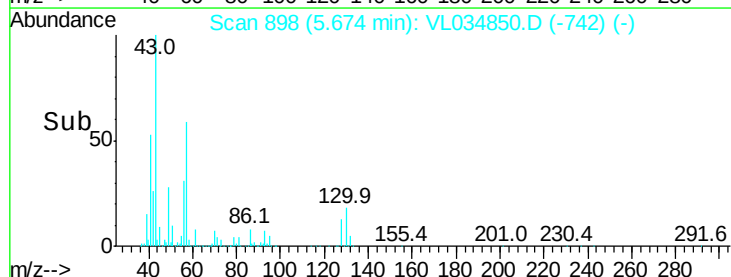
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



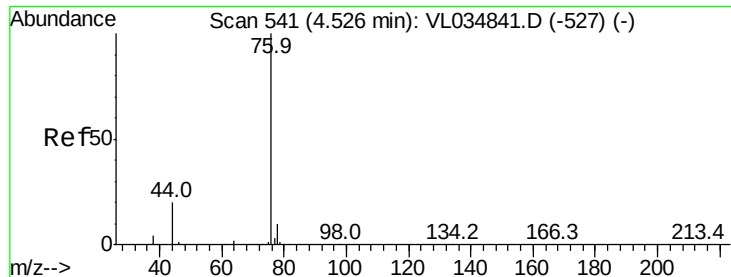
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 9.866 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

VL0309ABS01

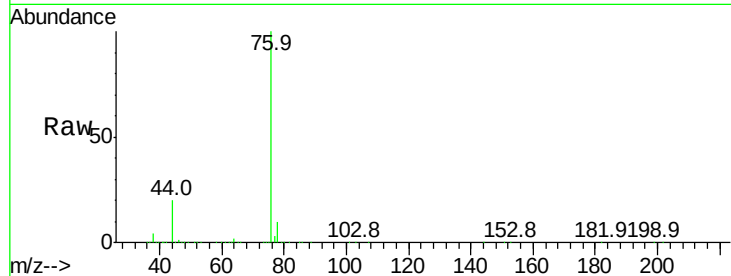
Tgt Ion: 76 Resp: 1020323

Ion Ratio Lower Upper

76 100

44 19.4 16.2 24.2

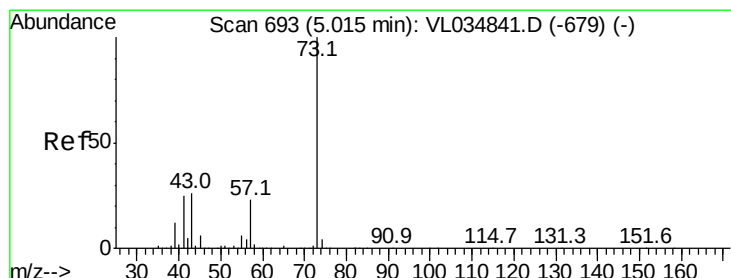
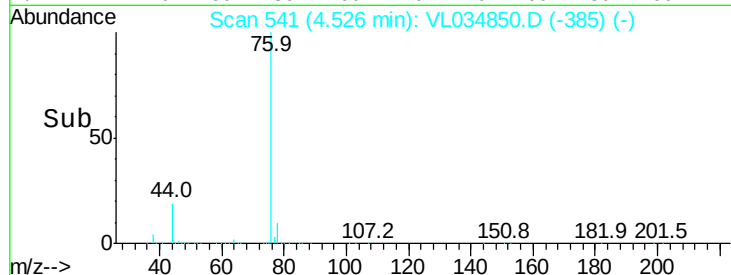
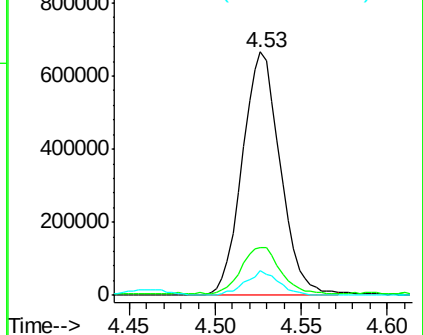
78 9.1 7.8 11.6



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: 9.465 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL034850.D

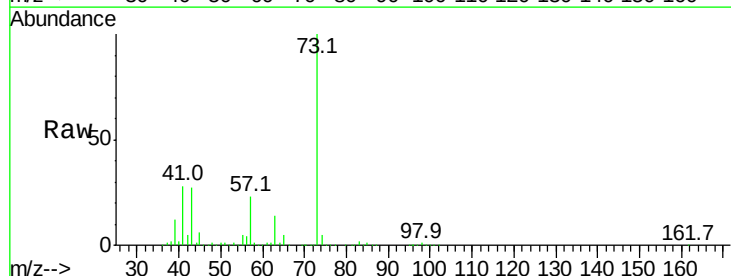
Acq: 9 Mar 2020 22:26

Tgt Ion: 73 Resp: 1435294

Ion Ratio Lower Upper

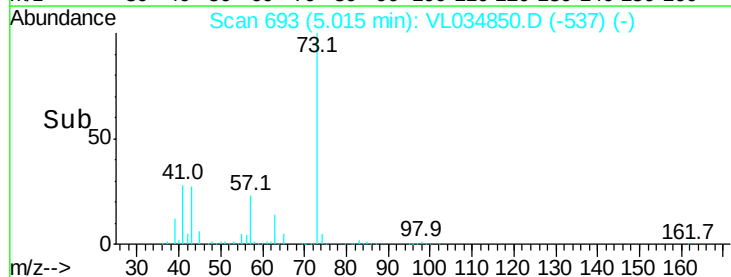
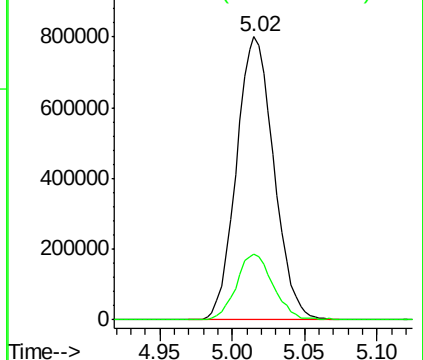
73 100

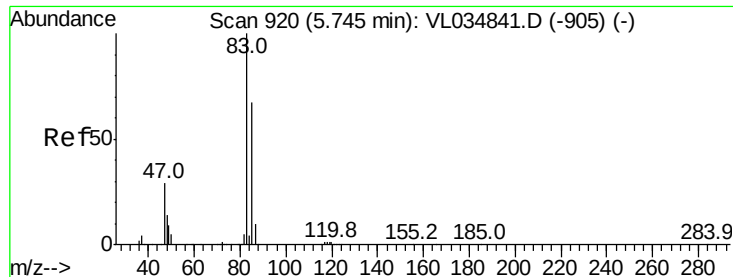
57 23.0 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

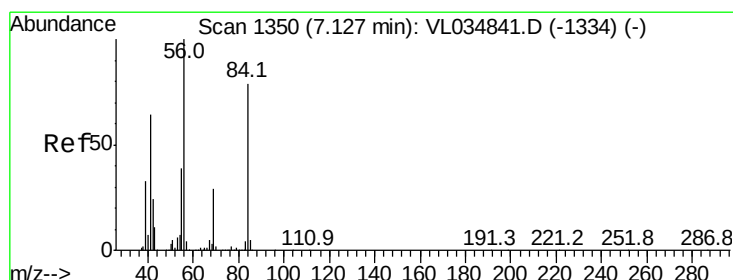
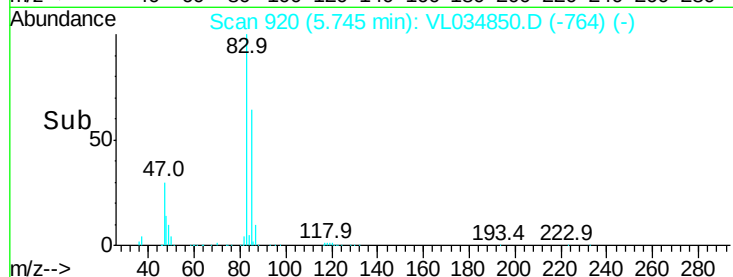
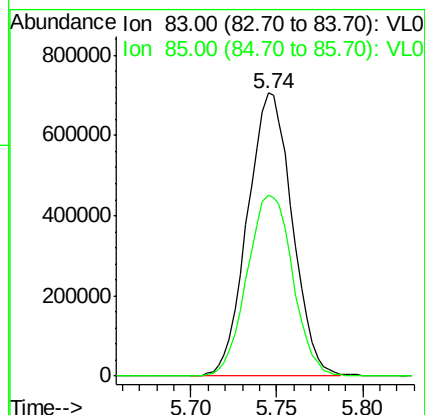
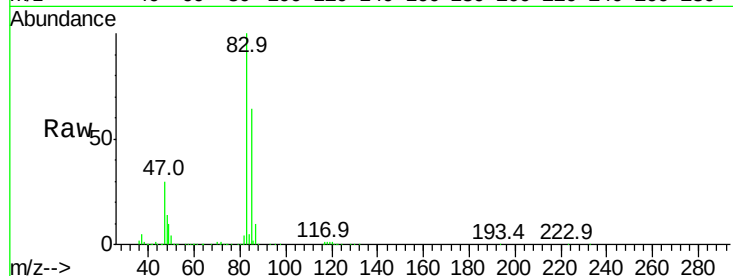




#29
Chloroform
Concen: 9.141 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL034850.D
Acq: 9 Mar 2020 22:26

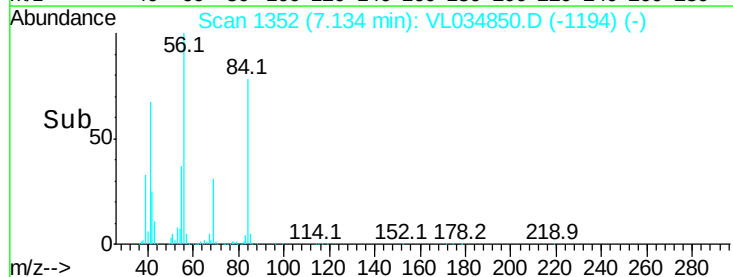
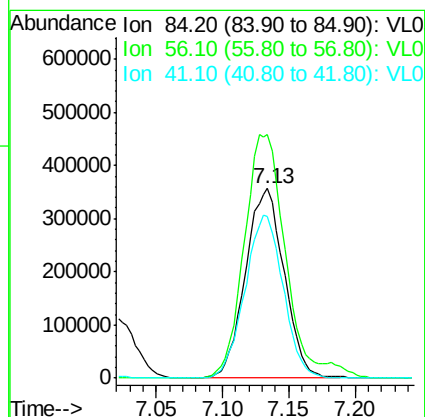
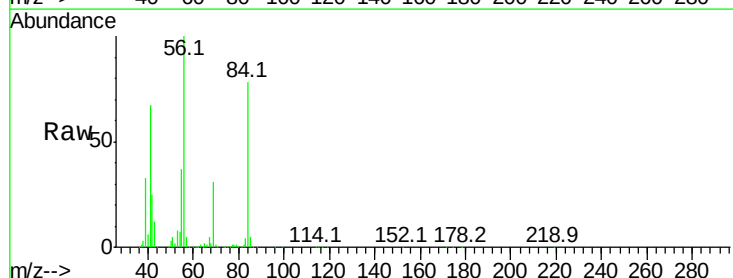
Instrument :
MSVOA_L
ClientSampleId :
VL0309ABS01

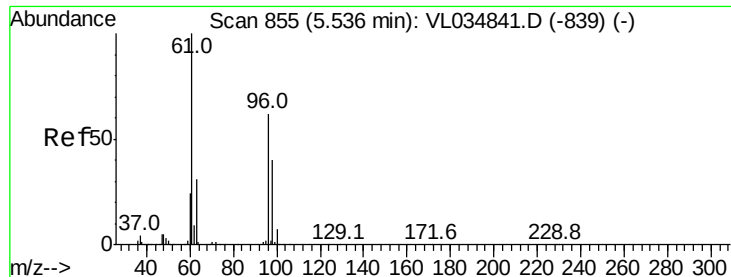
Tgt Ion: 83 Resp: 1271161
Ion Ratio Lower Upper
83 100
85 63.7 53.8 80.6



#30
Cyclohexane
Concen: 9.550 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VL034850.D
Acq: 9 Mar 2020 22:26

Tgt Ion: 84 Resp: 726164
Ion Ratio Lower Upper
84 100
56 138.6 110.5 165.7
41 85.0 68.2 102.4



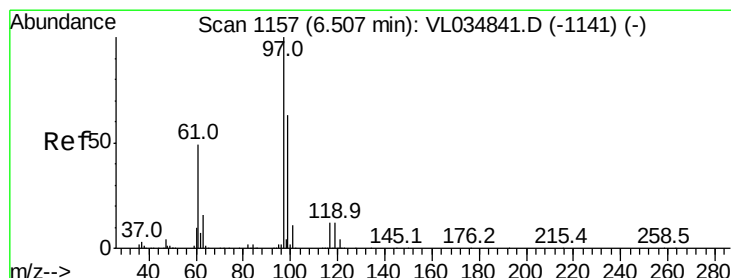
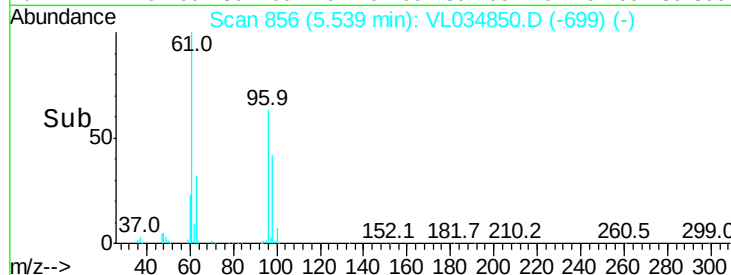
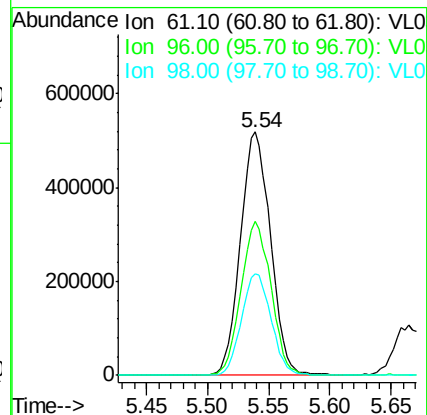
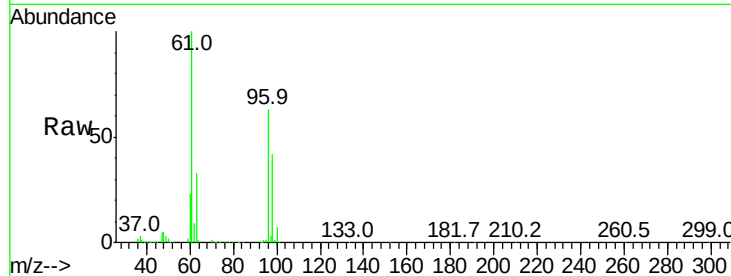


#31

cis-1,2-Dichloroethene
 Concen: 9.478 ppbv
 RT: 5.54 min Scan# 856
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0309ABS01

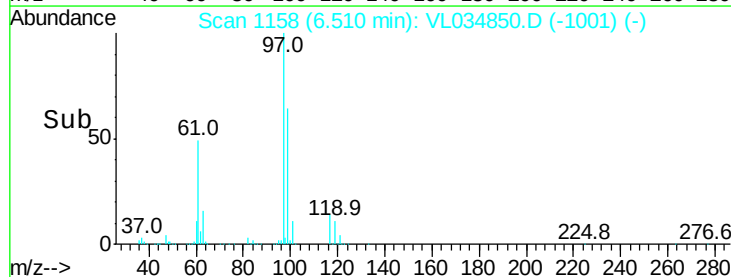
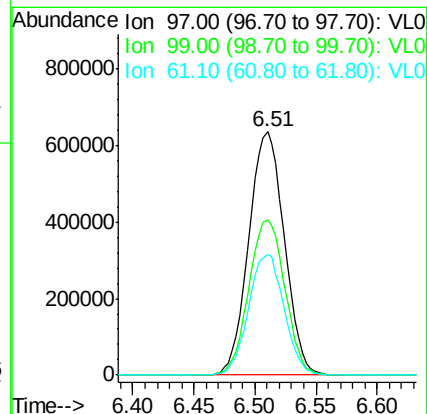
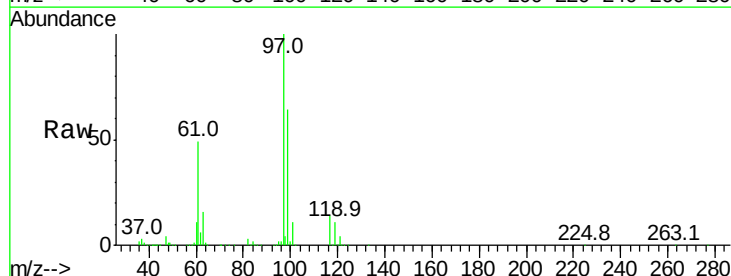
Tgt Ion:	61	Resp:	883397
Ion	Ratio	Lower	Upper
61	100		
96	63.4	49.8	74.8
98	41.9	32.2	48.4

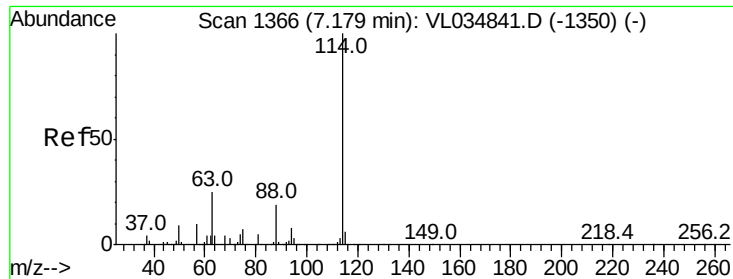


#32

1,1,1-Trichloroethane
 Concen: 9.424 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Tgt Ion:	97	Resp:	1276877
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.1	76.7
61	49.7	39.7	59.5

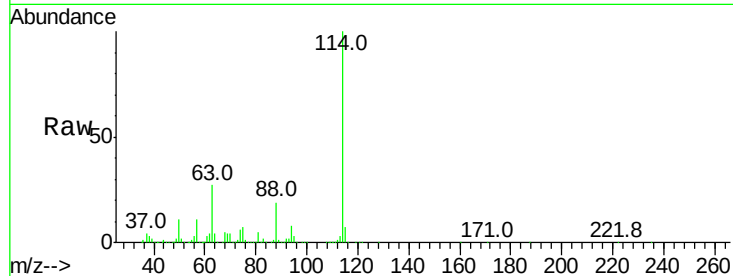




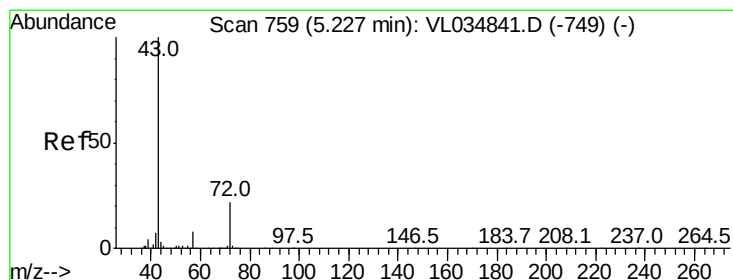
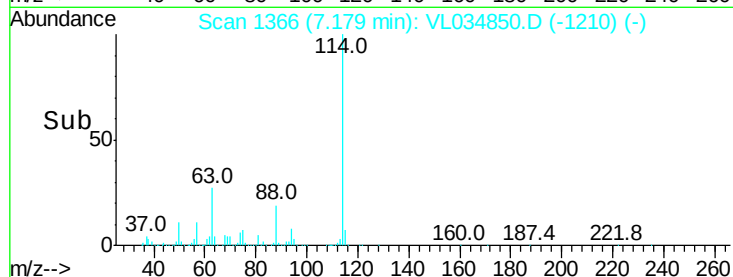
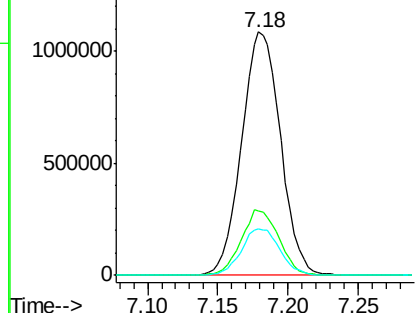
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0309ABS01

Tgt Ion:114 Resp: 2095821
 Ion Ratio Lower Upper
 114 100
 63 26.6 20.6 31.0
 88 19.1 15.0 22.6

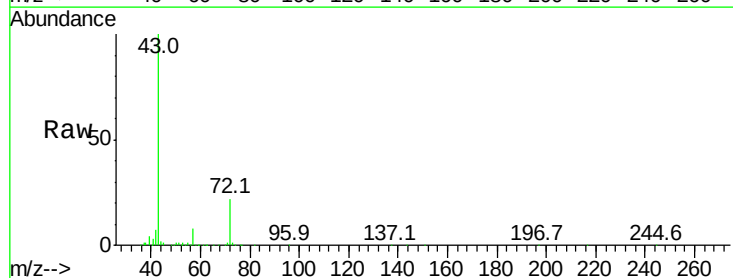


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

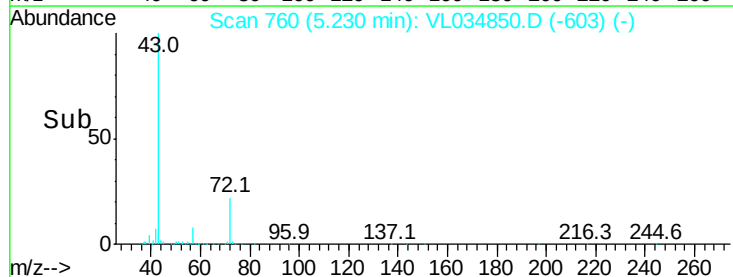
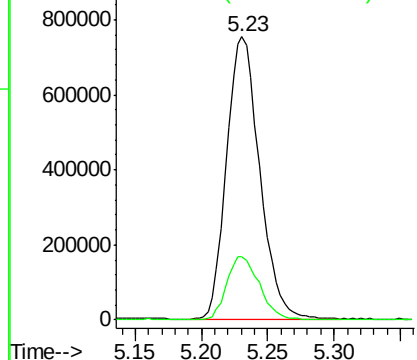


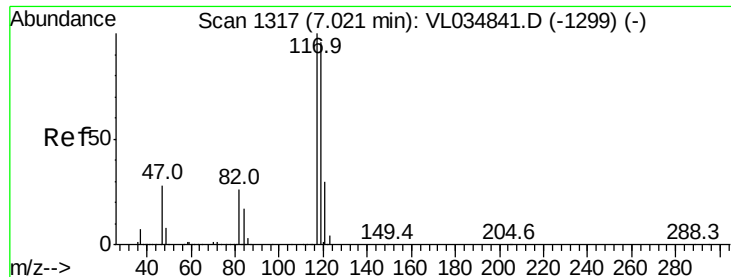
#34
 2-Butanone
 Concen: 9.389 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Tgt Ion: 43 Resp: 1307722
 Ion Ratio Lower Upper
 43 100
 72 22.3 17.6 26.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.061 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

VL0309ABS01

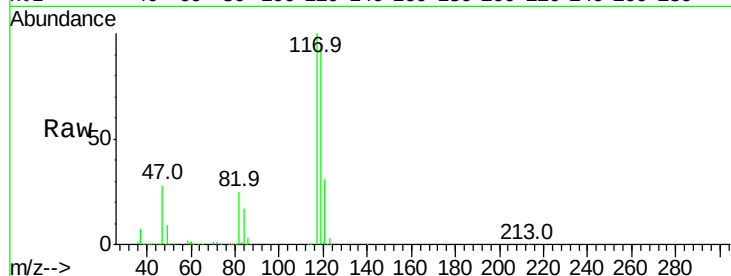
Tgt Ion:117 Resp: 1311544

Ion Ratio Lower Upper

117 100

119 94.6 77.0 115.4

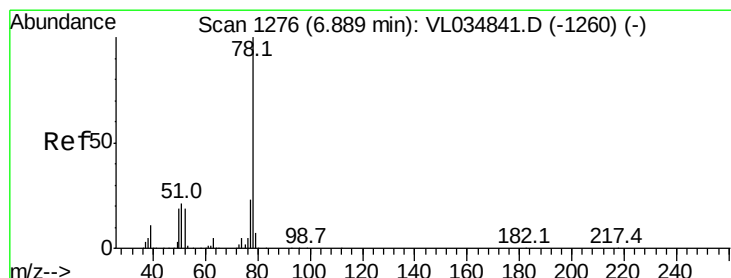
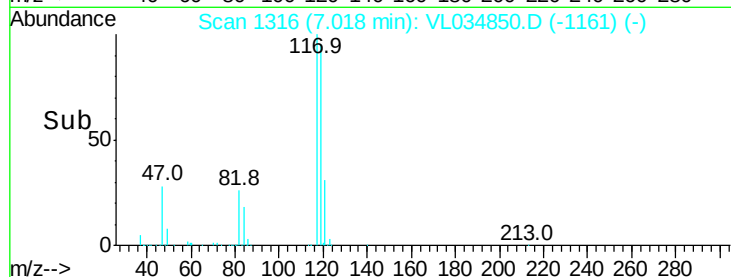
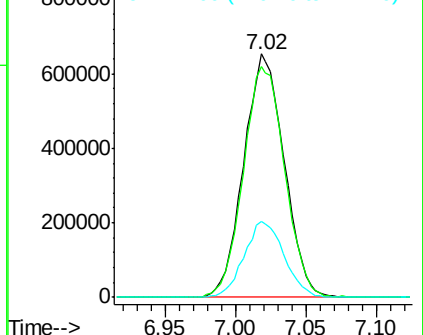
121 31.1 24.0 36.0



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: 9.253 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

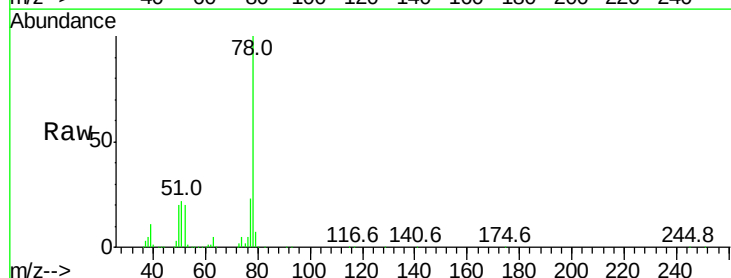
Tgt Ion: 78 Resp: 1728612

Ion Ratio Lower Upper

78 100

77 23.1 18.2 27.2

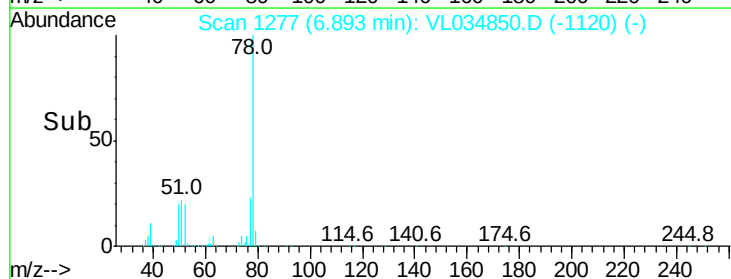
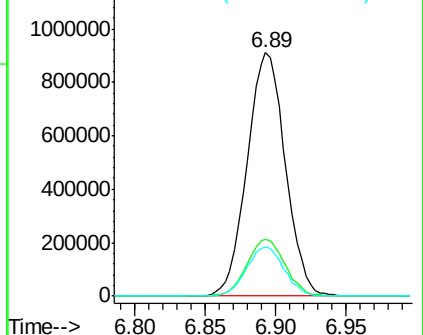
50 20.3 15.2 22.8

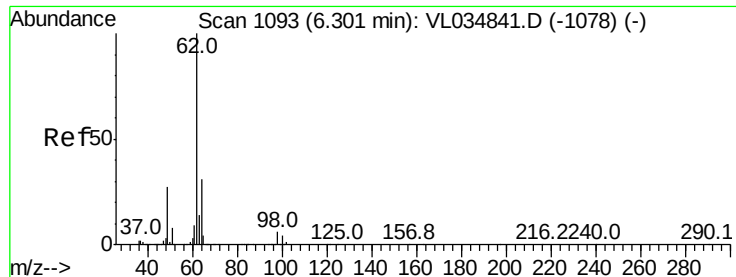


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

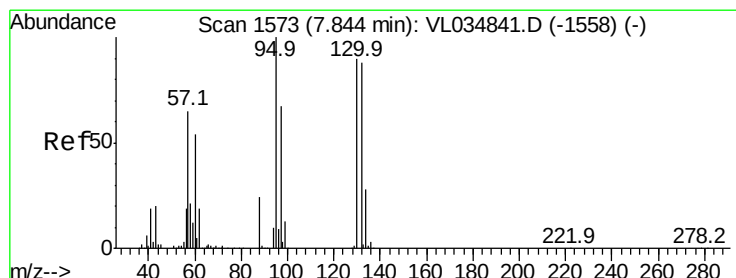
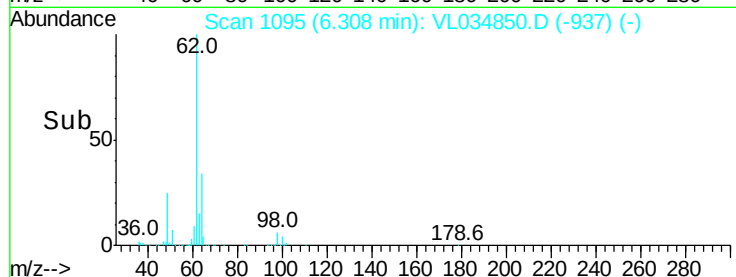
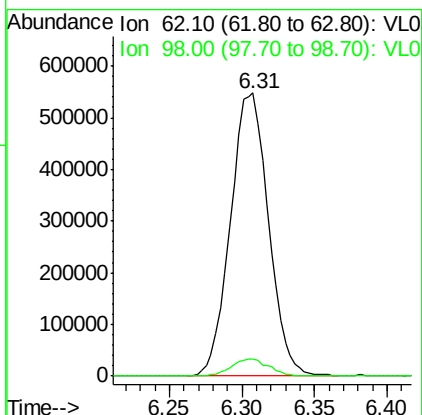
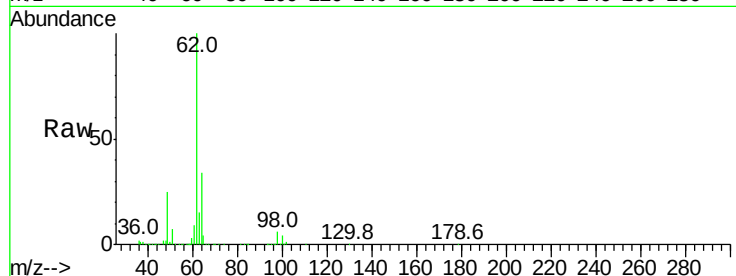




#37
 1,2-Dichloroethane
 Concen: 9.459 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. 0.01 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

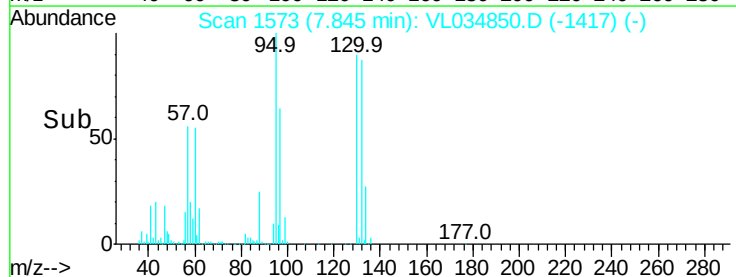
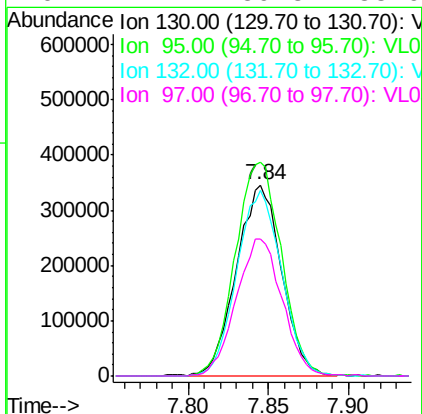
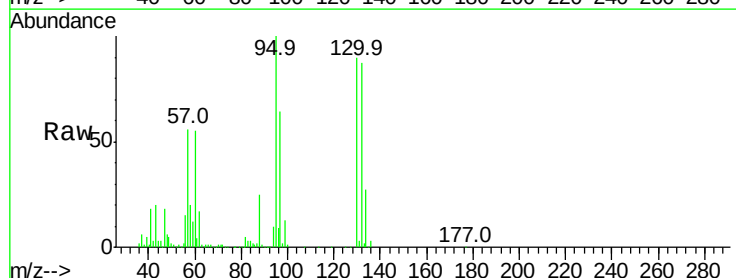
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0309ABS01

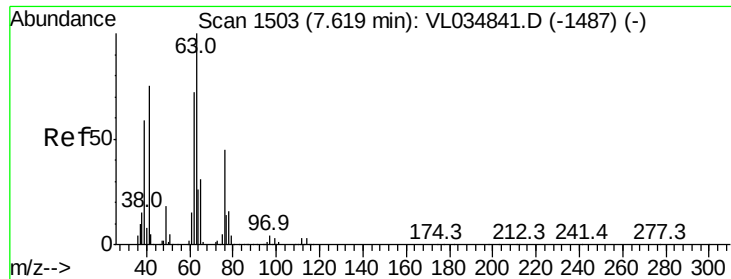
Tgt Ion: 62 Resp: 996403
 Ion Ratio Lower Upper
 62 100
 98 6.2 5.2 7.8



#38
 Trichloroethene
 Concen: 9.434 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Tgt Ion: 130 Resp: 669319
 Ion Ratio Lower Upper
 130 100
 95 111.5 88.5 132.7
 132 96.6 78.0 117.0
 97 71.7 59.3 88.9





#39

1,2-Dichloropropane

Concen: 9.211 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

VL0309ABS01

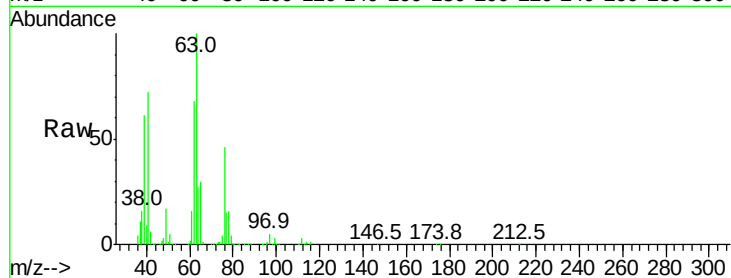
Tgt Ion: 63 Resp: 681776

Ion Ratio Lower Upper

63 100

41 71.7 59.8 89.8

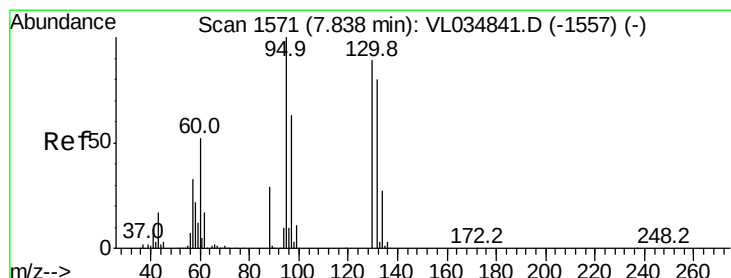
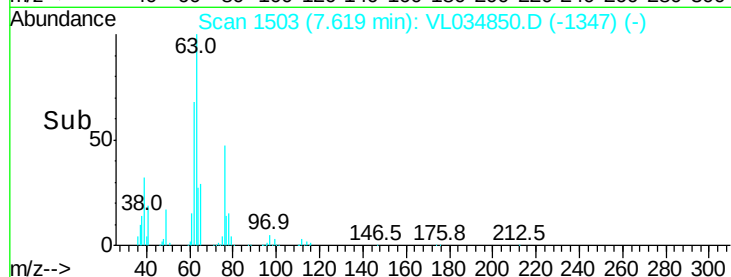
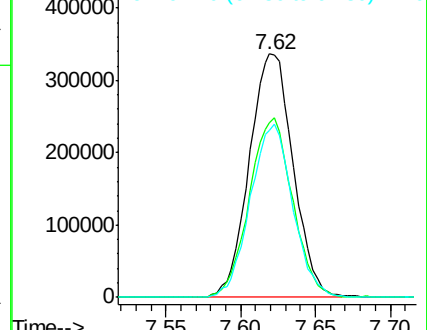
62 68.4 57.6 86.4



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 4.329 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Tgt Ion: 88 Resp: 120997

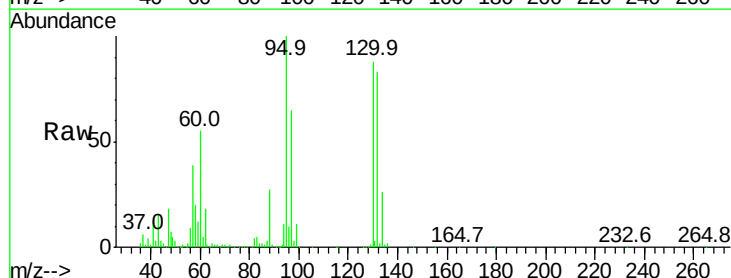
Ion Ratio Lower Upper

88 100

58 255.0 103.9 155.9#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

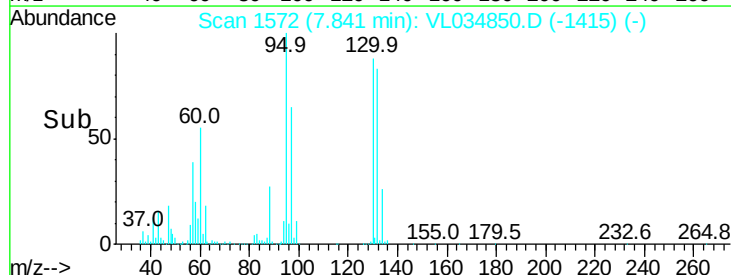
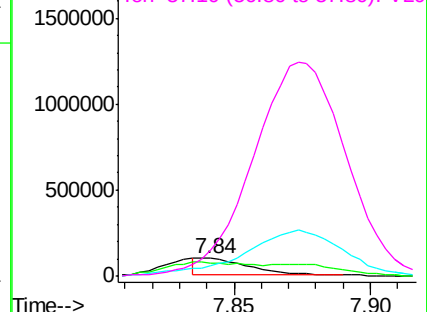


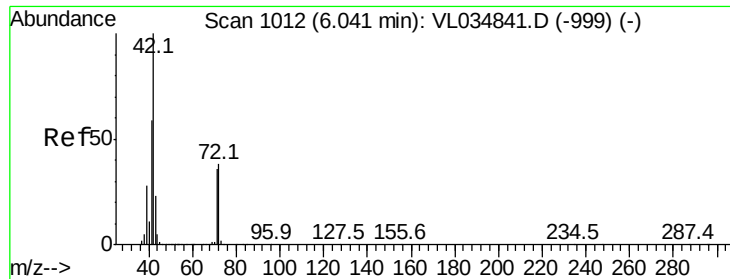
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 9.891 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

VL0309ABS01

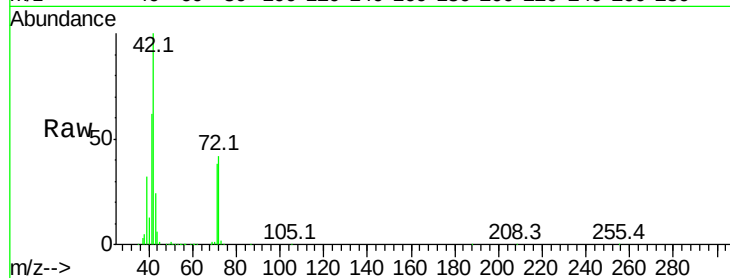
Tgt Ion: 42 Resp: 745384

Ion Ratio Lower Upper

42 100

72 38.2 30.8 46.2

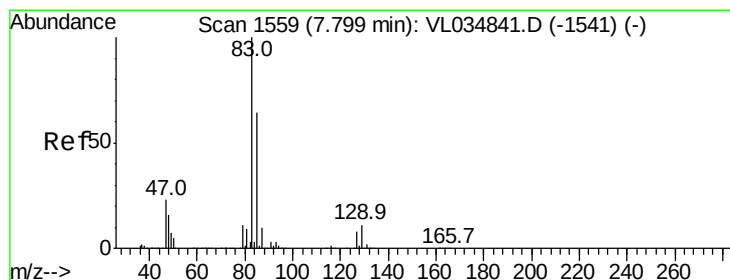
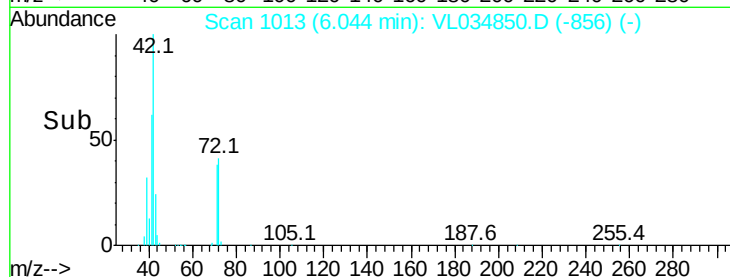
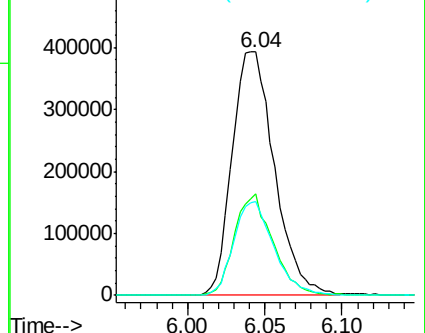
71 36.9 30.1 45.1



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.515 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

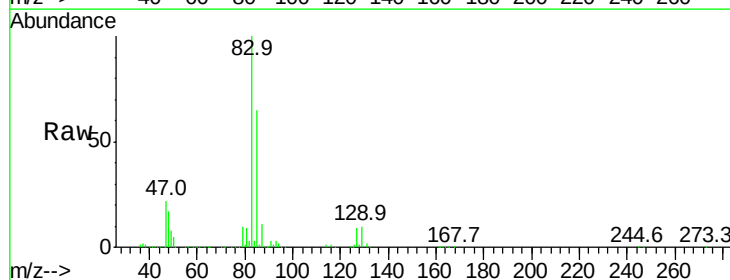
Tgt Ion: 83 Resp: 1365921

Ion Ratio Lower Upper

83 100

85 65.3 51.4 77.2

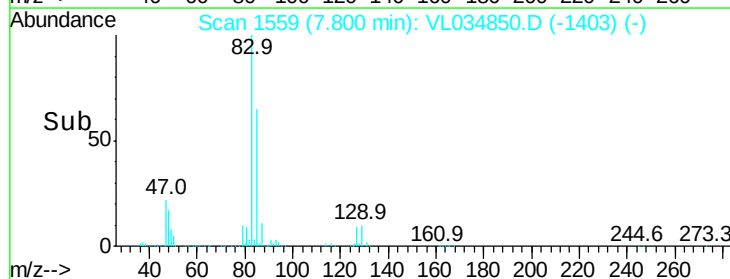
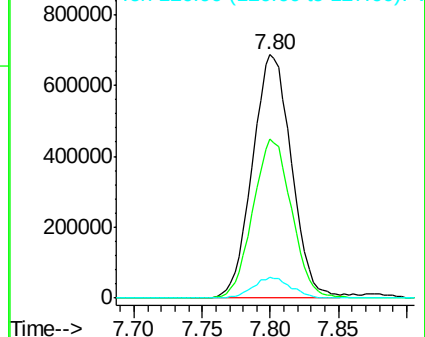
127 8.6 6.2 9.4

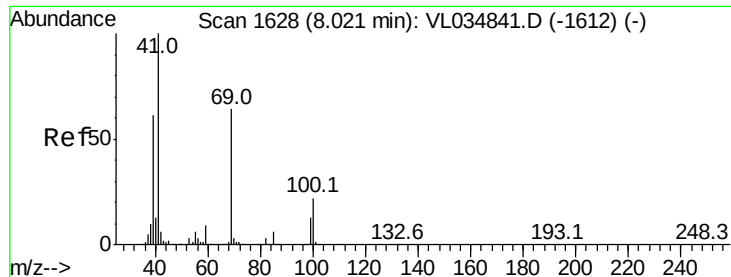


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

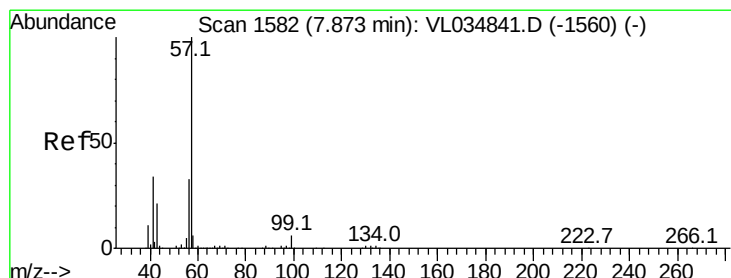
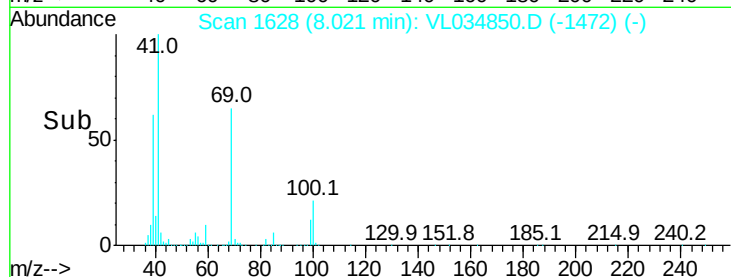
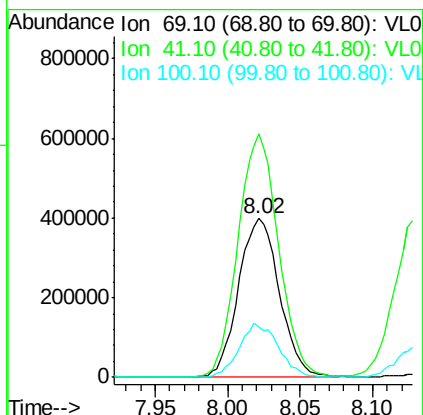
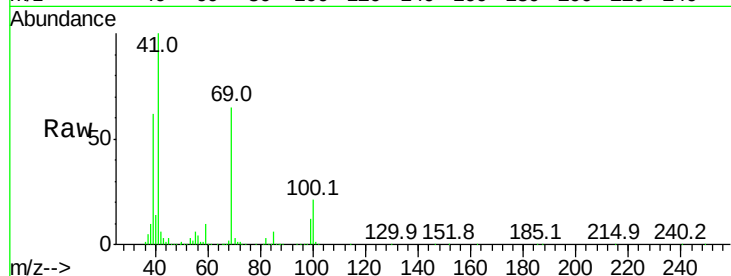




#43
Methyl Methacrylate
Concen: 9.950 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. 0.00 min
Lab File: VL034850.D
Acq: 9 Mar 2020 22:26

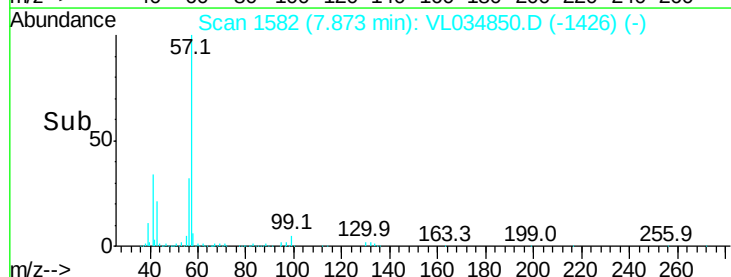
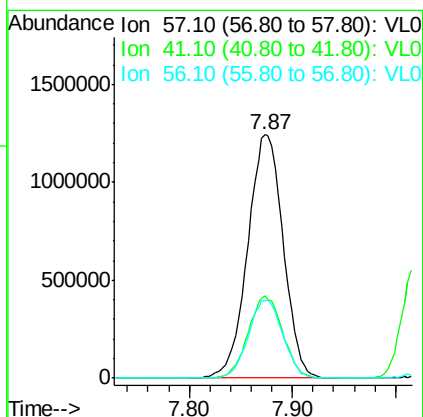
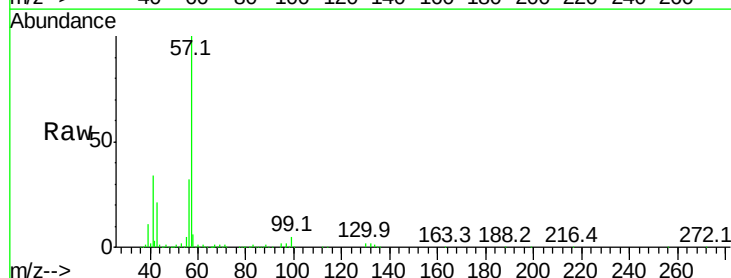
Instrument :
MSVOA_L
ClientSampleId :
VL0309ABS01

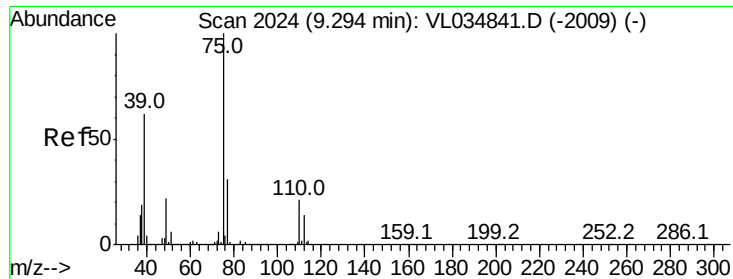
Tgt Ion: 69 Resp: 783098
Ion Ratio Lower Upper
69 100
41 152.0 123.2 184.8
100 32.6 26.9 40.3



#44
2,2,4-Trimethylpentane
Concen: 9.380 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VL034850.D
Acq: 9 Mar 2020 22:26

Tgt Ion: 57 Resp: 2961145
Ion Ratio Lower Upper
57 100
41 32.9 26.2 39.4
56 31.2 25.0 37.4

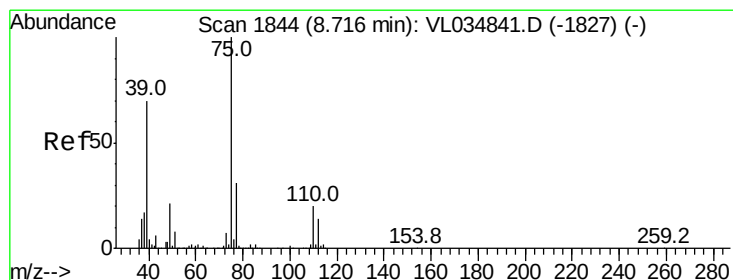
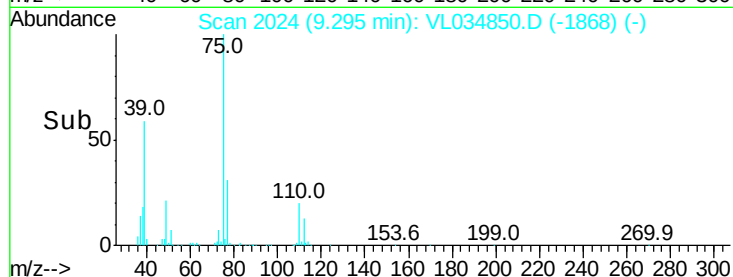
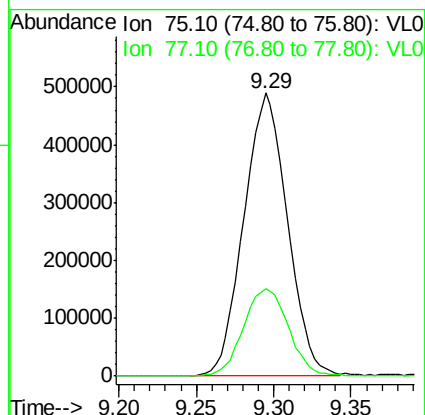
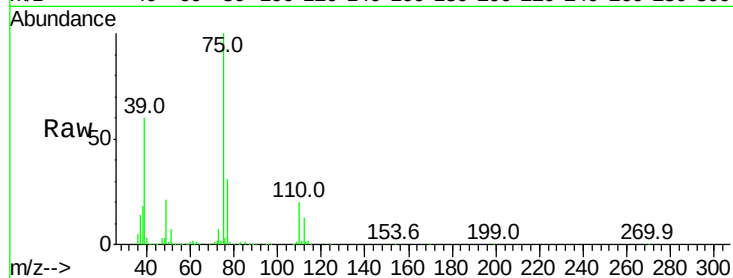




#45
 t-1,3-Dichloropropene
 Concen: 10.359 ppbv
 RT: 9.29 min Scan# 2024
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

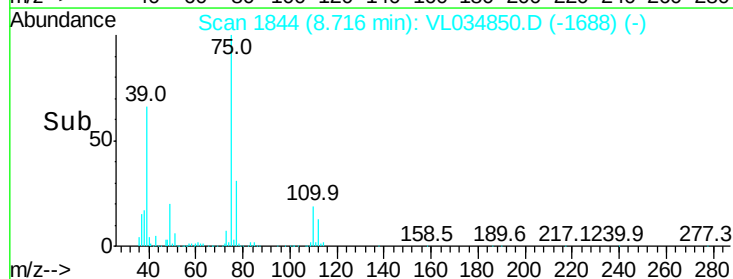
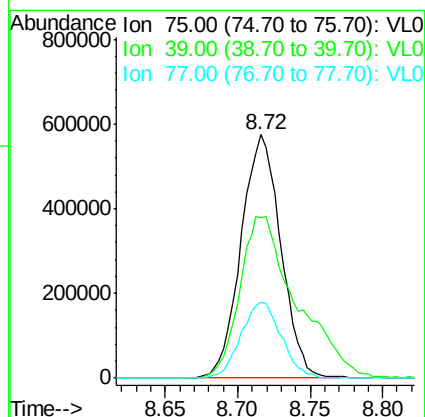
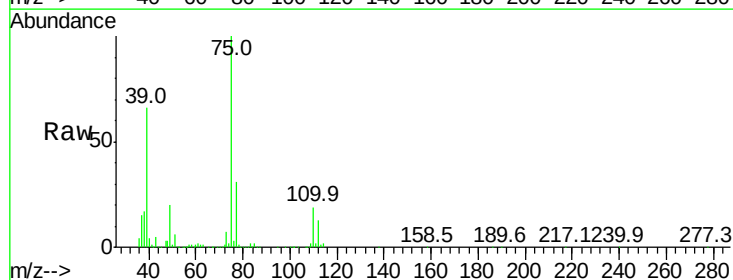
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0309ABS01

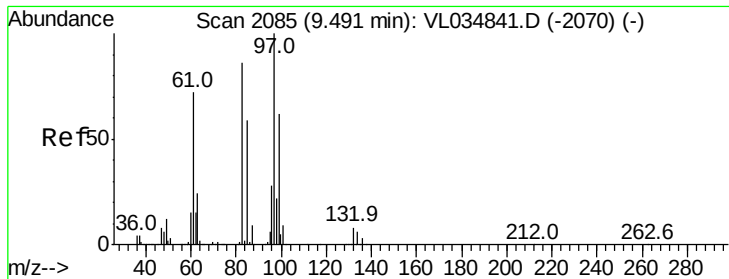
Tgt Ion: 75 Resp: 957830
 Ion Ratio Lower Upper
 75 100
 77 31.0 24.6 37.0



#46
 cis-1,3-Dichloropropene
 Concen: 9.983 ppbv
 RT: 8.72 min Scan# 1844
 Delta R.T. 0.00 min
 Lab File: VL034850.D
 Acq: 9 Mar 2020 22:26

Tgt Ion: 75 Resp: 1096915
 Ion Ratio Lower Upper
 75 100
 39 65.7 55.7 83.5
 77 31.1 24.7 37.1





#47

1,1,2-Trichloroethane

Concen: 9.284 ppbv

RT: 9.49 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VL034850.D

Acq: 9 Mar 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

VL0309ABS01

Tgt Ion: 97 Resp: 705201

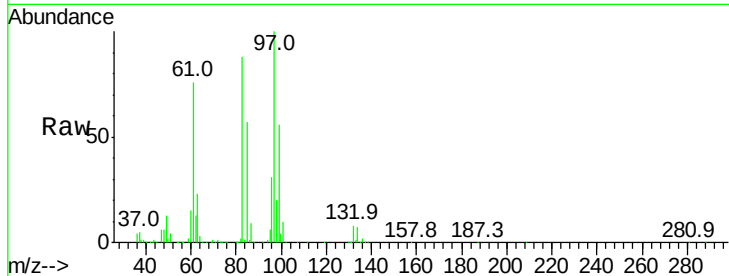
Ion Ratio Lower Upper

97 100

83 88.3 68.6 102.8

85 57.0 46.9 70.3

99 56.3 49.9 74.9

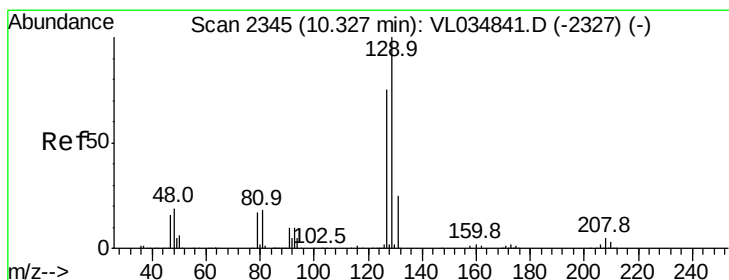
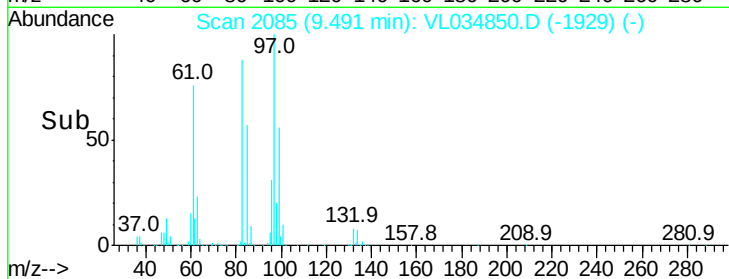
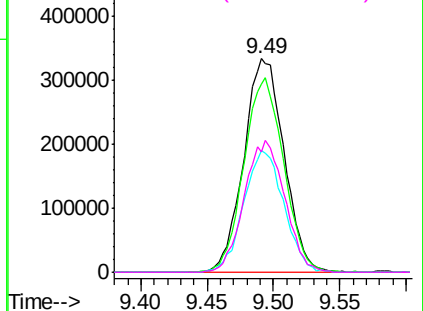


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.518 ppbv

RT: 10.33 min Scan# 2345

Delta R.T. 0.00 min

Lab File: VL034850.D

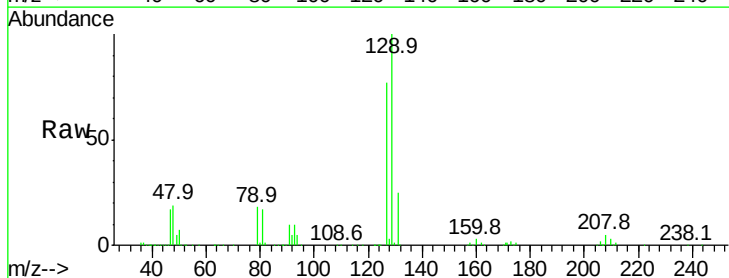
Acq: 9 Mar 2020 22:26

Tgt Ion: 129 Resp: 1170770

Ion Ratio Lower Upper

129 100

127 78.3 39.6 118.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

