

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034120.D
 Acq On : 5 Sep 2019 2:28
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:14:51 AM

Quant Time: Sep 05 10:02:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:02:17 2019
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1194254	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2282602	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2522152	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1982503	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1835261	9.317	ppbv	100
3) Chlorodifluoromethane	2.98	51	1208011	9.074	ppbv	100
4) Chloromethane	3.13	50	778624	9.356	ppbv	100
5) Vinyl Chloride	3.25	62	682798	9.007	ppbv	100
6) Bromomethane	3.47	94	356152	9.519	ppbv	100
7) Chloroethane	3.56	64	244108	9.452	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	1430034	9.019	ppbv	100
9) Propene	3.00	41	693189	9.307	ppbv	100
10) Heptane	8.19	43	1767670	9.145	ppbv	100
11) Trichlorofluoromethane	3.96	101	1468295	9.140	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1000181	9.306	ppbv	100
13) Ethanol	3.61	45	118693	7.043	ppbv	99
14) Bromoethene	3.74	108	441411	9.500	ppbv	100
15) Acetone	3.86	43	1251322	8.694	ppbv	100
16) 1,3-Butadiene	3.32	39	684976	9.397	ppbv	100
17) tert-Butyl alcohol	4.31	59	987061	9.447	ppbv	100
18) 1,1-Dichloroethene	4.30	96	472763	9.641	ppbv	100
19) Isopropyl Alcohol	3.98	45	853772	8.815	ppbv	100
20) Methylene Chloride	4.36	84	417784	8.779	ppbv	100
21) Allyl Chloride	4.43	41	910738	9.598	ppbv	100
22) trans-1,2-Dichloroethene	4.91	96	464801	9.457	ppbv	100
23) Vinyl Acetate	5.11	43	2320161	9.501	ppbv	100
24) 1,1-Dichloroethane	5.04	63	1478676	9.124	ppbv	100
25) Ethyl Acetate	5.72	43	2748840	8.706	ppbv	100
26) Hexane	5.73	57	1174262	8.360	ppbv	99
27) Carbon Disulfide	4.57	76	1269813	10.042	ppbv	99
28) Methyl tert-Butyl Ether	5.06	73	1926897	9.362	ppbv	100
29) Chloroform	5.80	83	1728553	9.123	ppbv	100
30) Cyclohexane	7.19	84	959529	9.449	ppbv	100
31) cis-1,2-Dichloroethene	5.59	61	1270089	9.442	ppbv	100
32) 1,1,1-Trichloroethane	6.57	97	1648697	9.264	ppbv	100
34) 2-Butanone	5.28	43	1951601	8.893	ppbv	100
35) Carbon Tetrachloride	7.08	117	1595258	9.039	ppbv	100
36) Benzene	6.95	78	2356519	9.032	ppbv	100
37) 1,2-Dichloroethane	6.36	62	1434486	8.973	ppbv	100
38) Trichloroethene	7.90	130	767706	7.956	ppbv	100
39) 1,2-Dichloropropane	7.68	63	1003878	8.986	ppbv	100
40) 1,4-Dioxane	7.89	88	317470	7.705	ppbv	# 100
41) Tetrahydrofuran	6.09	42	1214338	9.269	ppbv	100
42) Bromodichloromethane	7.86	83	1942038	9.310	ppbv	100
43) Methyl Methacrylate	8.08	69	1021848	9.507	ppbv	100

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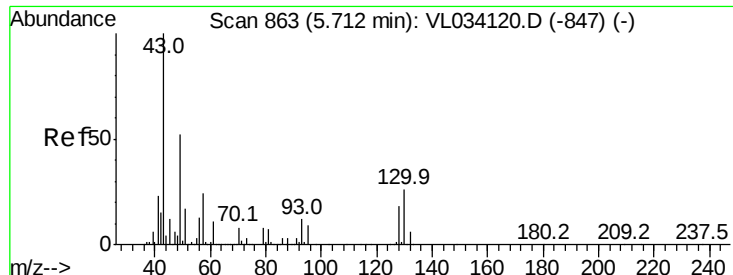
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	4038280	8.395	ppbv	100
45) t-1,3-Dichloropropene	9.36	75	1341730	10.635	ppbv	100
46) cis-1,3-Dichloropropene	8.78	75	1504706	9.790	ppbv	100
47) 1,1,2-Trichloroethane	9.55	97	924538	9.099	ppbv	100
48) Dibromochloromethane	10.39	129	1458819	9.611	ppbv	100
49) Bromoform	13.14	173	1283195	9.655	ppbv	100
50) 4-Methyl-2-Pentanone	8.81	43	2863394	8.551	ppbv	100
51) 2-Hexanone	10.21	43	2512655	8.769	ppbv	100
52) Tetrachloroethene	11.31	164	743452	8.142	ppbv	100
53) Toluene	9.89	91	2603013	9.021	ppbv	100
54) 1,2-Dibromoethane	10.70	107	1371990	9.079	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.22	131	947332	8.757	ppbv	100
57) Chlorobenzene	12.24	112	1804870	8.319	ppbv	100
58) Ethyl Benzene	12.80	91	3458827	8.372	ppbv	100
59) m/p-Xylene	13.08	91	5584759m	16.594	ppbv	
60) o-Xylene	13.79	91	2754303	8.197	ppbv	100
61) Styrene	13.62	104	2189595	8.720	ppbv	100
62) Isopropylbenzene	14.77	105	3561220	8.148	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.77	83	1975098	7.186	ppbv	100
64) n-propylbenzene	15.66	120	945437	8.509	ppbv	100
65) tert-Butylbenzene	16.85	119	2992726	7.950	ppbv	100
66) Benzyl Chloride	17.09	91	1647659	11.877	ppbv	100
67) sec-Butylbenzene	17.40	105	4272367	7.877	ppbv	100
69) p-Isopropyltoluene	17.75	119	3478668	8.029	ppbv	100
70) n-Butylbenzene	18.65	91	3864827	7.824	ppbv	100
71) 2-Chlorotoluene	15.55	91	2968382	8.311	ppbv	100
72) 4-Ethyltoluene	15.94	105	3179016	8.385	ppbv	100
73) 1,3,5-Trimethylbenzene	16.10	105	3025290	8.210	ppbv	100
74) 1,2,4-Trimethylbenzene	16.87	105	2969176	7.825	ppbv	100
75) 1,3-Dichlorobenzene	17.10	146	1620007	8.063	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	1701533	8.031	ppbv	100
77) 1,2-Dichlorobenzene	17.92	146	1657552	8.069	ppbv	100
78) Hexachloro-1,3-Butadiene	23.48	225	1091235	7.792	ppbv	100
79) Naphthalene	22.33	128	2913019	8.500	ppbv	100
80) Naphthalene, 2-methyl-	25.06	142	1736816	14.587	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1533850	8.219	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. 0.00 min

Lab File: VL034120.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1194254

Ion Ratio Lower Upper

49 100

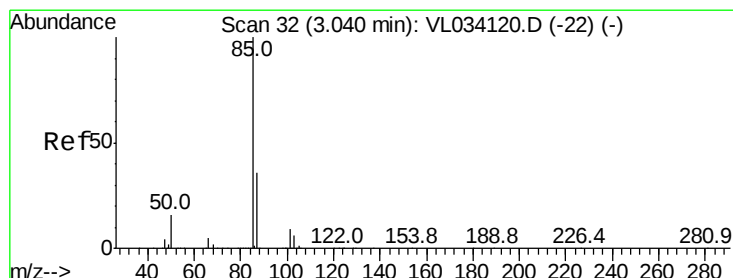
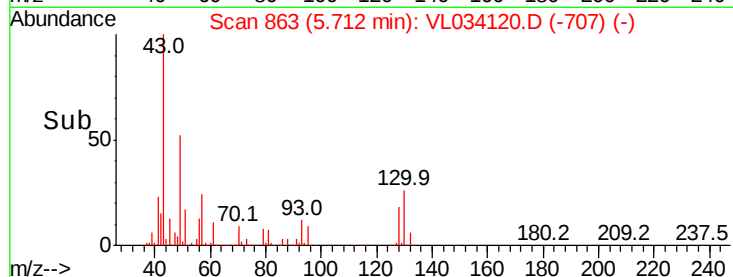
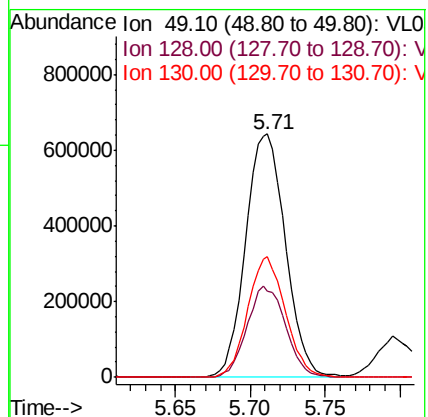
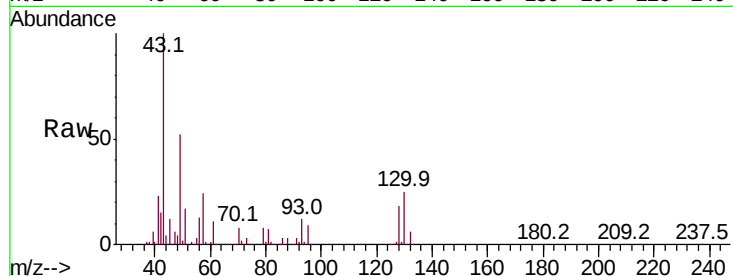
128 36.5 18.4 55.0

130 47.0 23.5 70.6

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#2

Dichlorodifluoromethane

Concen: 9.317 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL034120.D

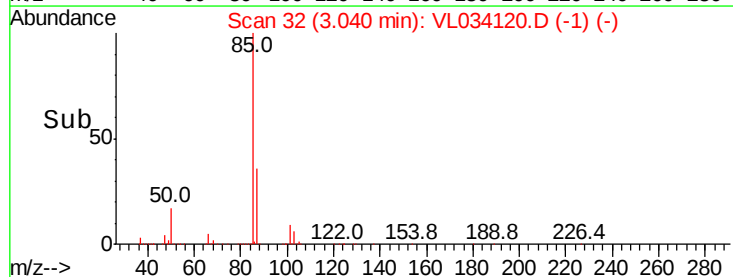
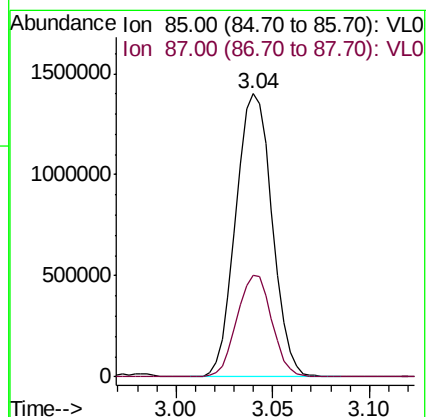
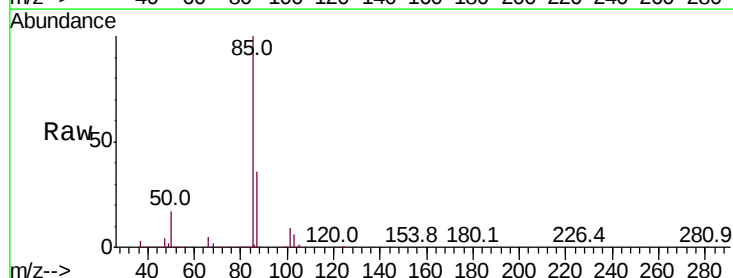
Acq: 5 Sep 2019 2:28

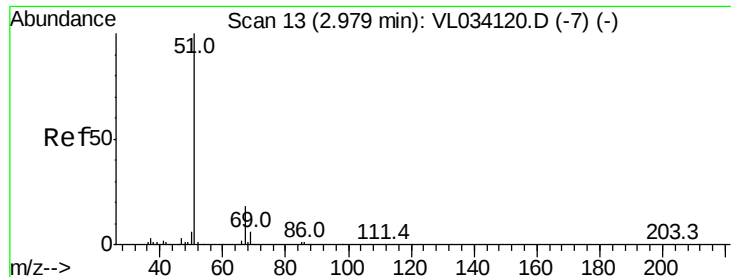
Tgt Ion: 85 Resp: 1835261

Ion Ratio Lower Upper

85 100

87 35.8 28.6 43.0





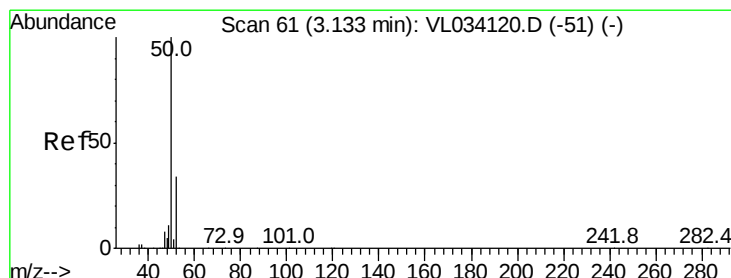
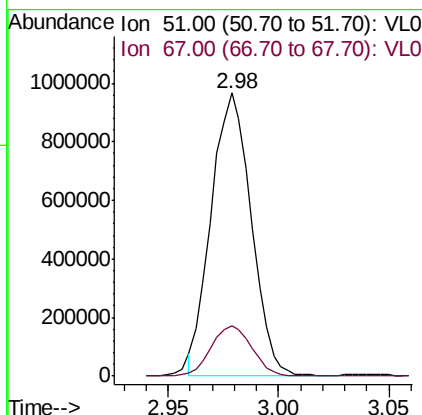
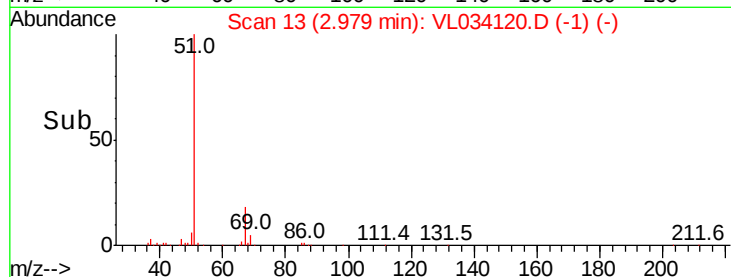
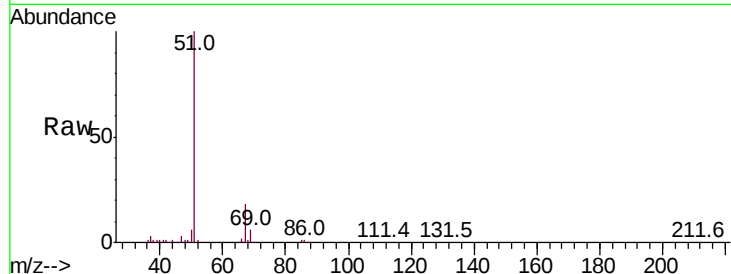
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Chlorodifluoromethane
Concen: 9.074 ppbv
RT: 2.98 min Scan# 13
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 51 Resp: 1208011
Ion Ratio Lower Upper
51 100
67 17.8 14.2 21.4

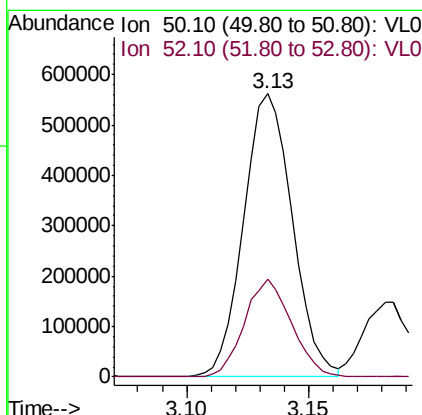
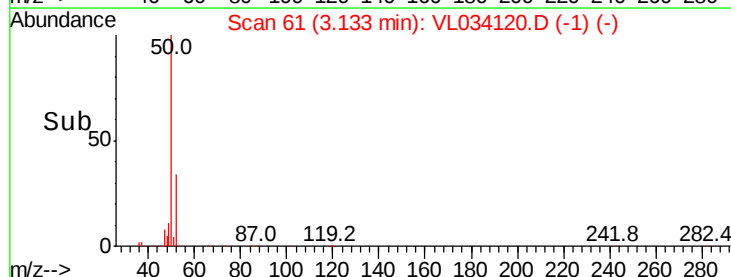
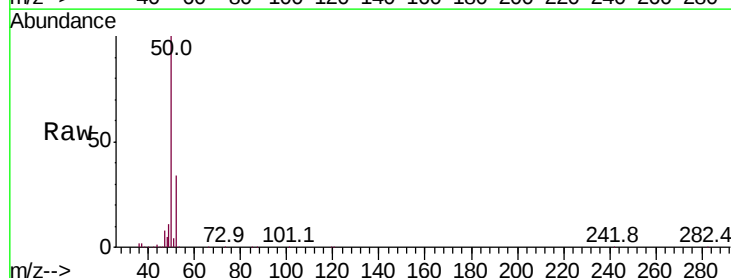
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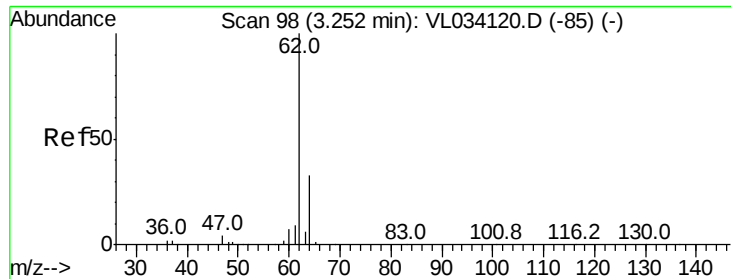
MMDadoda
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#4
Chloromethane
Concen: 9.356 ppbv
RT: 3.13 min Scan# 61
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion: 50 Resp: 778624
Ion Ratio Lower Upper
50 100
52 34.3 27.4 41.2





#5

Vinyl Chloride

Concen: 9.007 ppbv

RT: 3.25 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 682798

Ion Ratio Lower Upper

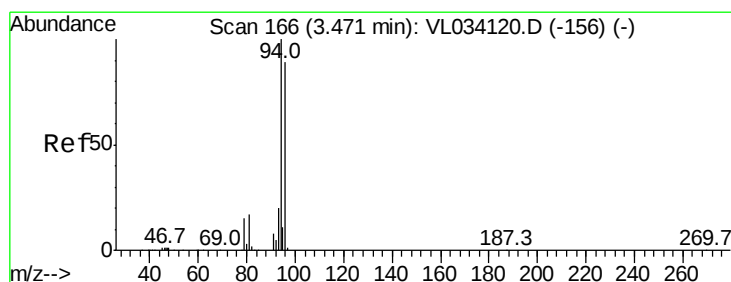
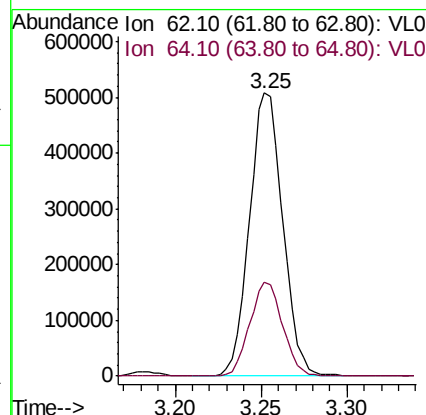
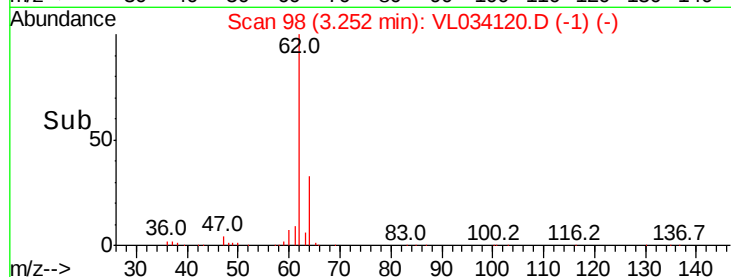
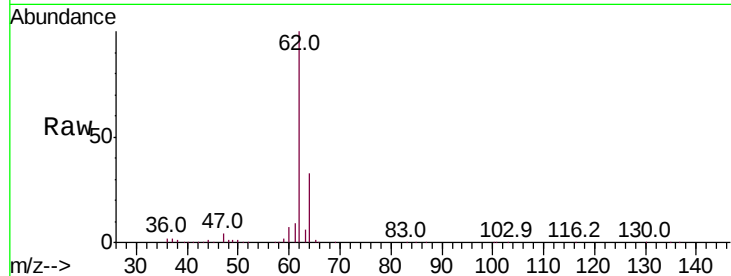
62 100

64 33.2 26.6 39.8

Manual Integrations
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#6

Bromomethane

Concen: 9.519 ppbv

RT: 3.47 min Scan# 166

Delta R.T. 0.00 min

Lab File: VL034120.D

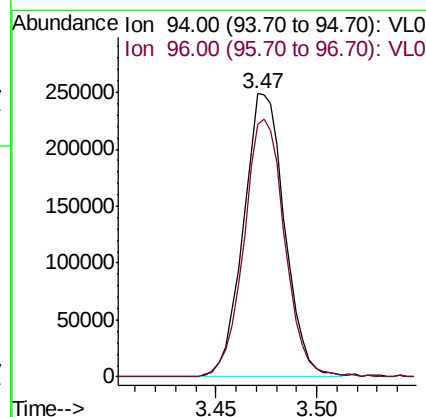
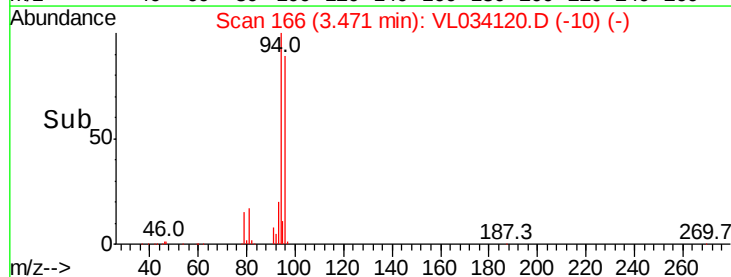
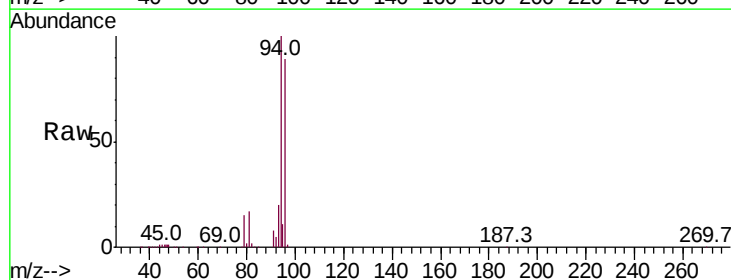
Acq: 5 Sep 2019 2:28

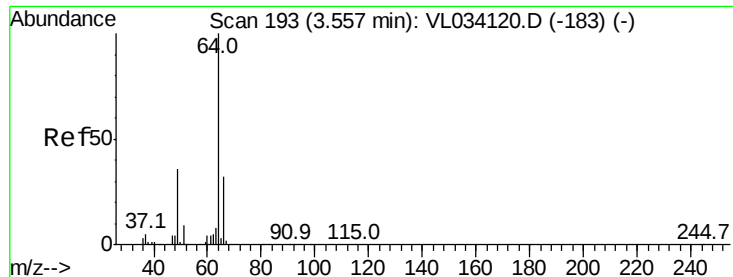
Tgt Ion: 94 Resp: 356152

Ion Ratio Lower Upper

94 100

96 89.2 71.4 107.0





#7

Chloroethane

Concen: 9.452 ppbv

RT: 3.56 min Scan# 193

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 244108

Ion Ratio Lower Upper

64 100

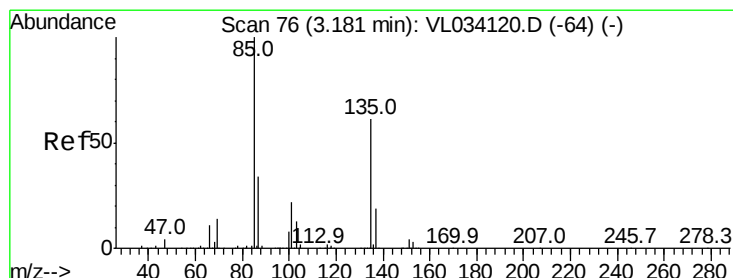
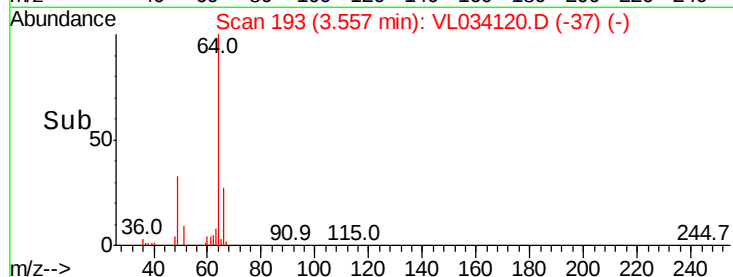
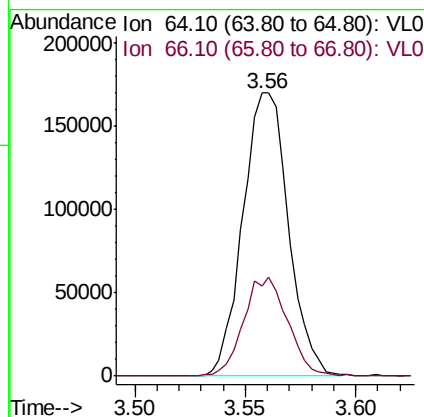
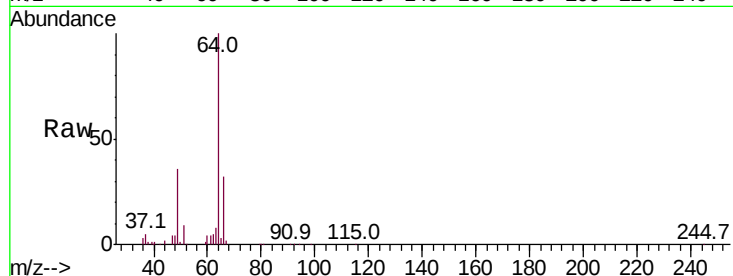
66 31.8 25.4 38.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.019 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL034120.D

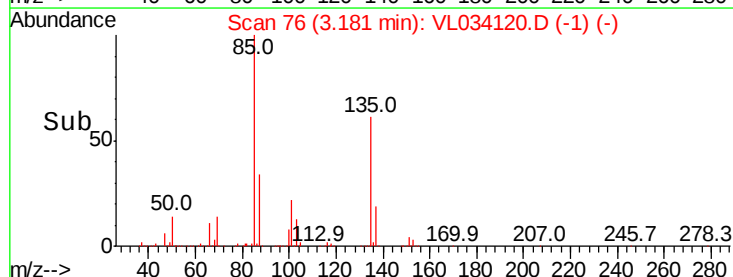
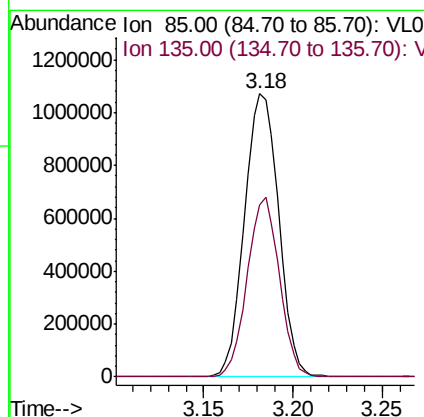
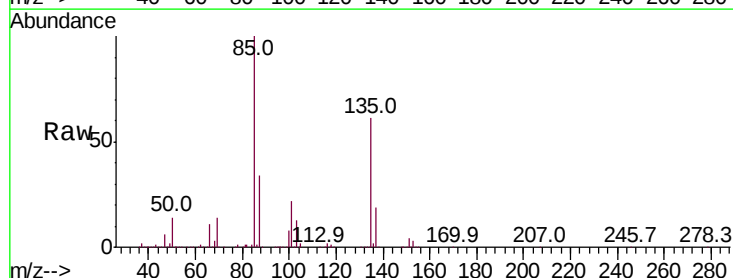
Acq: 5 Sep 2019 2:28

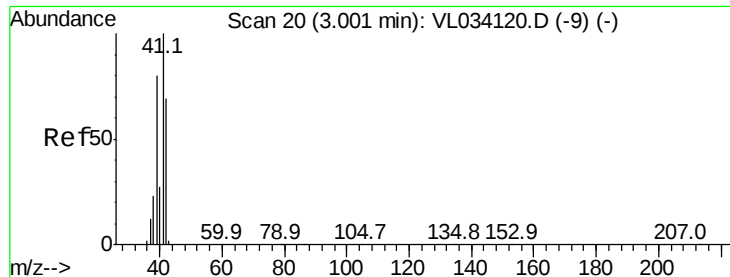
Tgt Ion: 85 Resp: 1430034

Ion Ratio Lower Upper

85 100

135 60.0 48.0 72.0





#9

Propene

Concen: 9.307 ppbv

RT: 3.00 min Scan# 20

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 693189

Ion Ratio Lower Upper

41 100

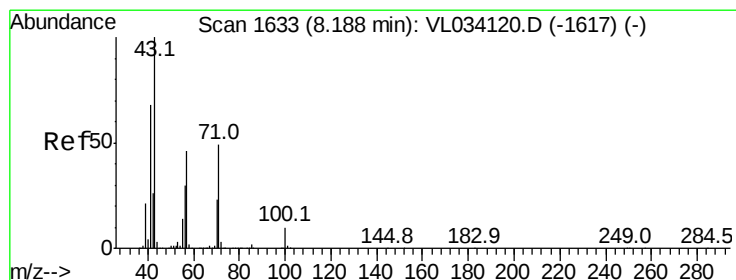
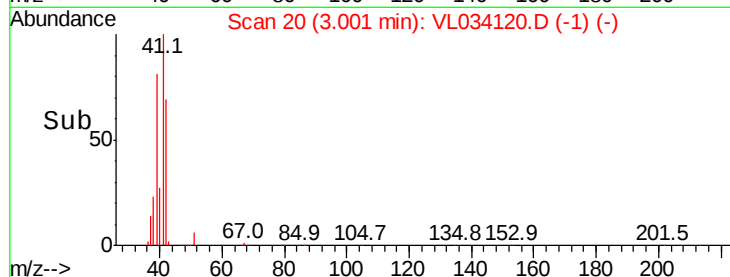
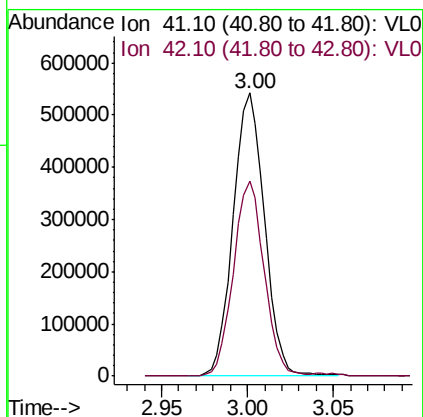
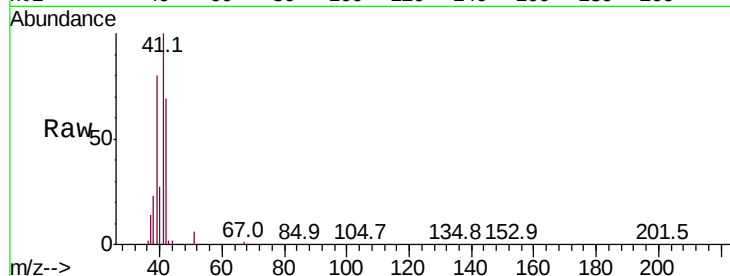
42 68.2 54.6 81.8

Manual Integrations

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#10

Heptane

Concen: 9.145 ppbv

RT: 8.19 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VL034120.D

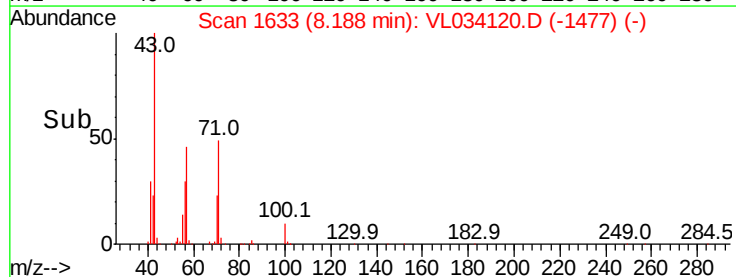
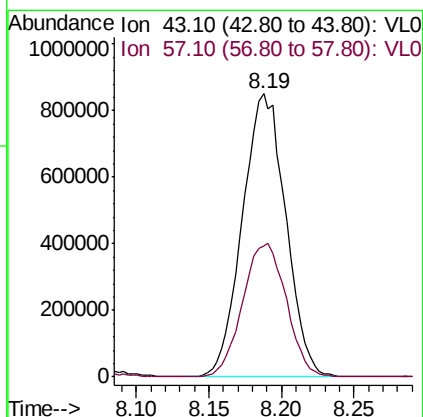
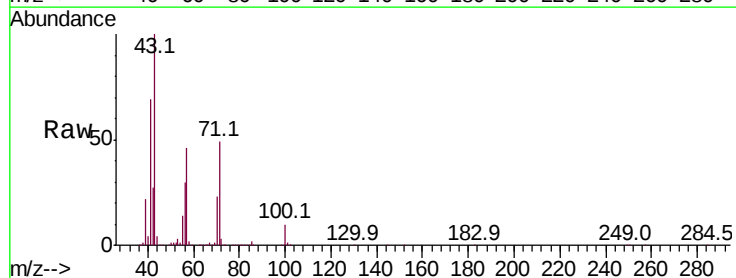
Acq: 5 Sep 2019 2:28

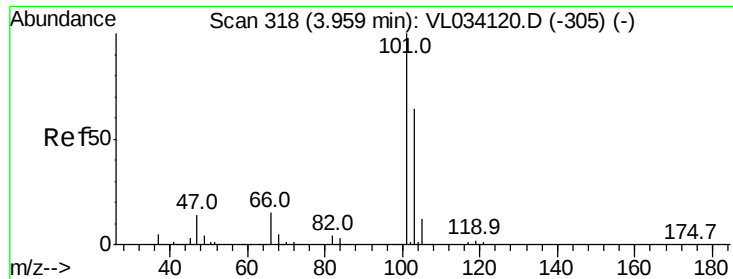
Tgt Ion: 43 Resp: 1767670

Ion Ratio Lower Upper

43 100

57 47.6 38.1 57.1





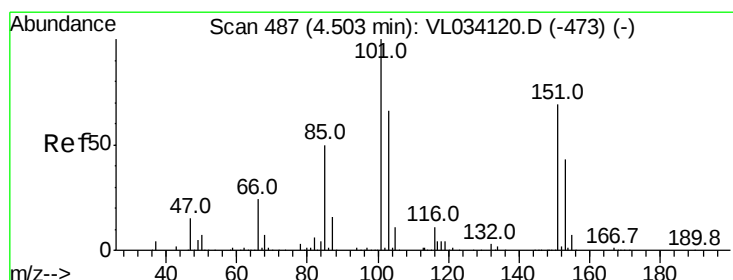
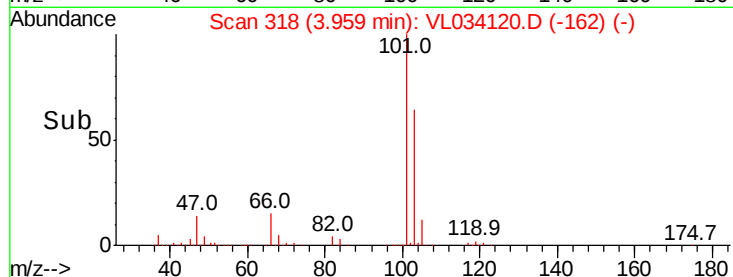
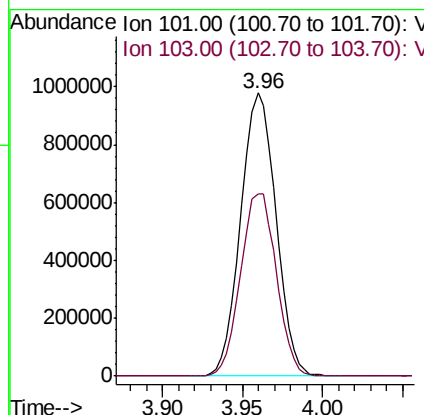
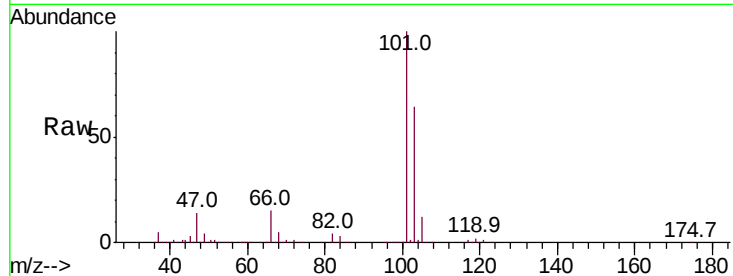
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 Trichlorofluoromethane
 Concen: 9.140 ppbv
 RT: 3.96 min Scan# 318
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 1468295
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.4 77.2

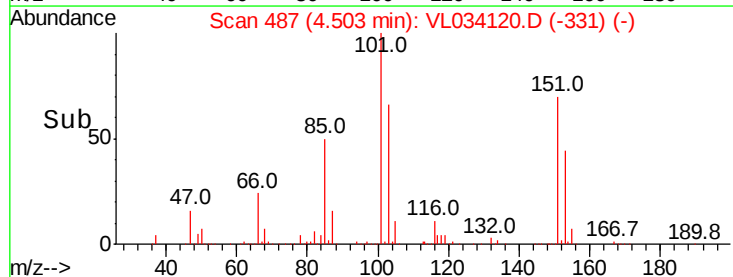
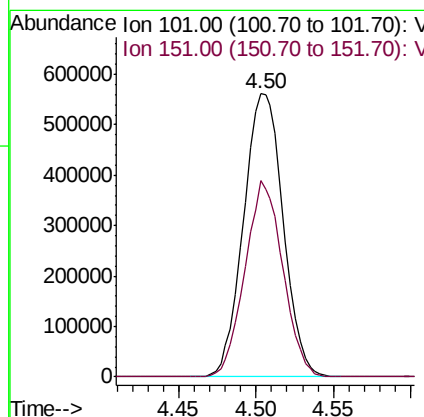
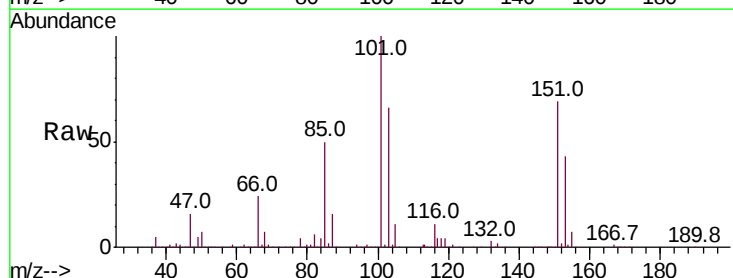
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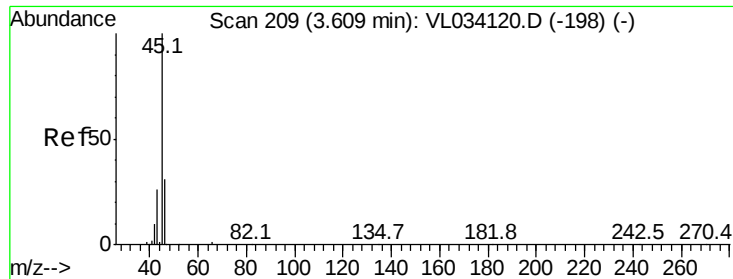
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.306 ppbv
 RT: 4.50 min Scan# 487
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion:101 Resp: 1000181
 Ion Ratio Lower Upper
 101 100
 151 66.4 53.0 79.6





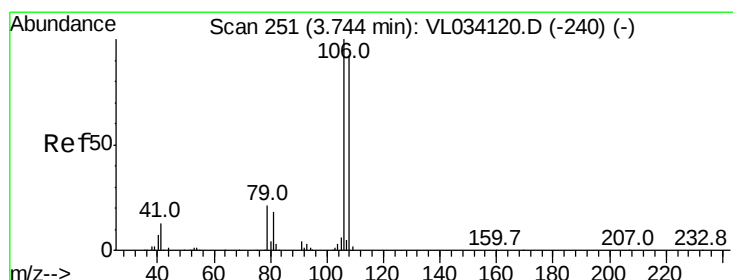
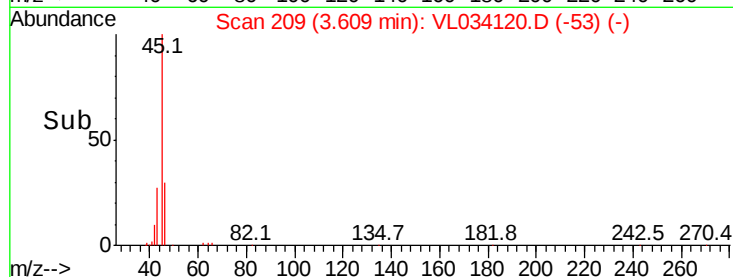
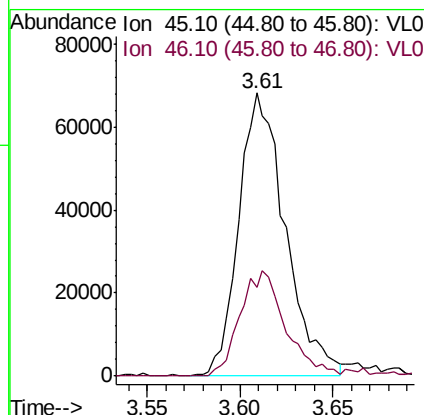
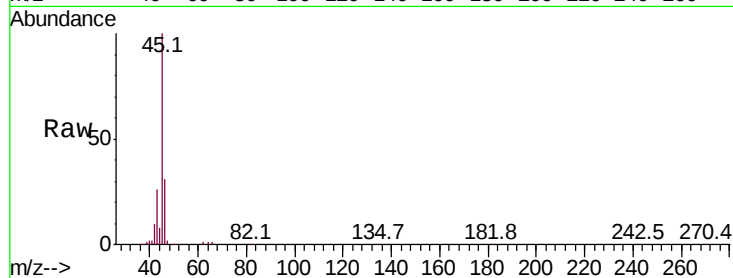
#13
Ethanol
Concen: 7.043 ppbv
RT: 3.61 min Scan# 209
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.2	15.0	60.0

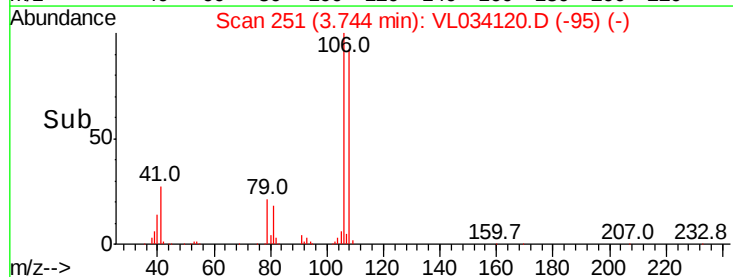
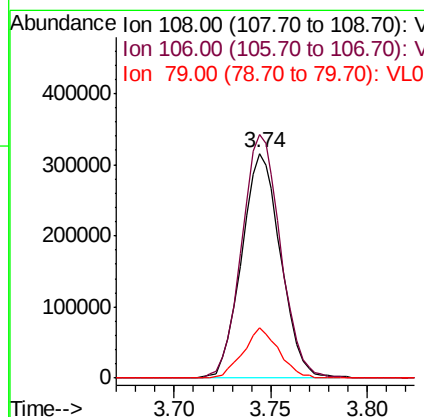
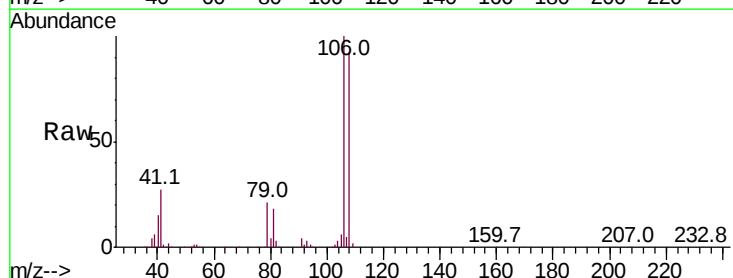
Manual Integrations
APPROVED

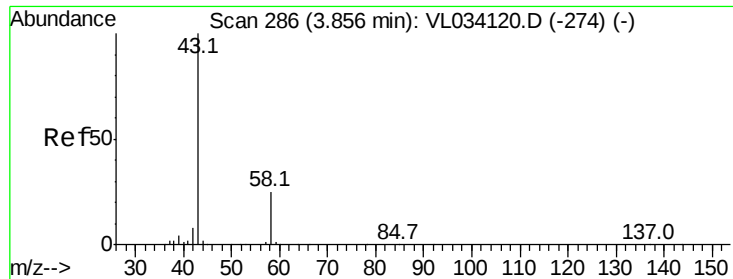
MMDadoda
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#14
Bromoethene
Concen: 9.500 ppbv
RT: 3.74 min Scan# 251
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.6	87.2	130.8
79	20.6	16.5	24.7





#15

Acetone

Concen: 8.694 ppbv

RT: 3.86 min Scan# 286

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1251322

Ion Ratio Lower Upper

43 100

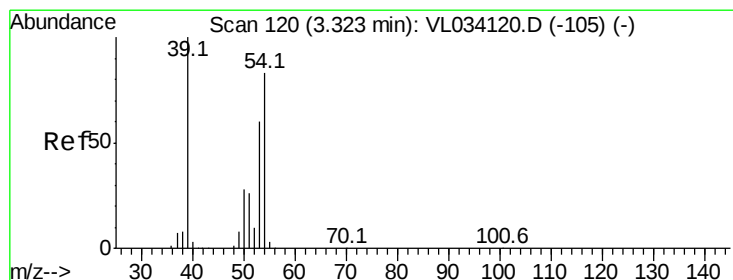
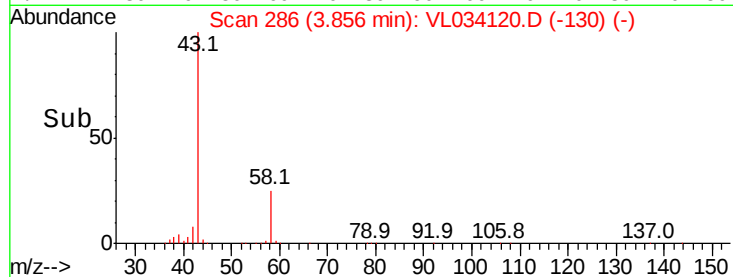
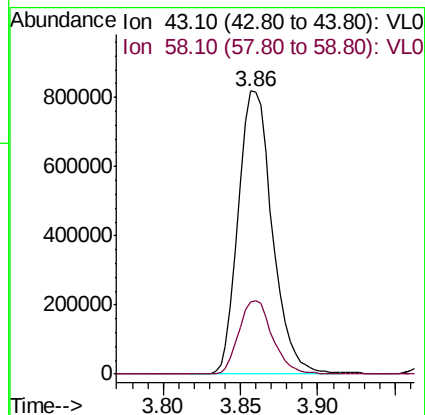
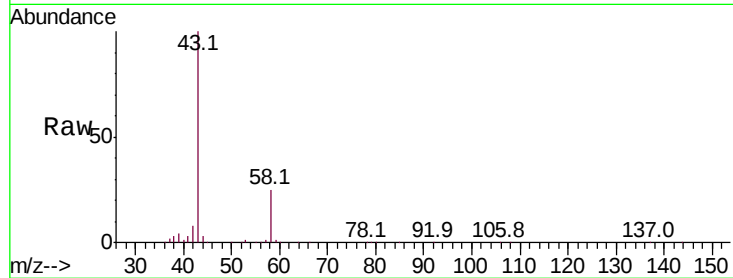
58 25.7 20.6 30.8

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#16

1,3-Butadiene

Concen: 9.397 ppbv

RT: 3.32 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL034120.D

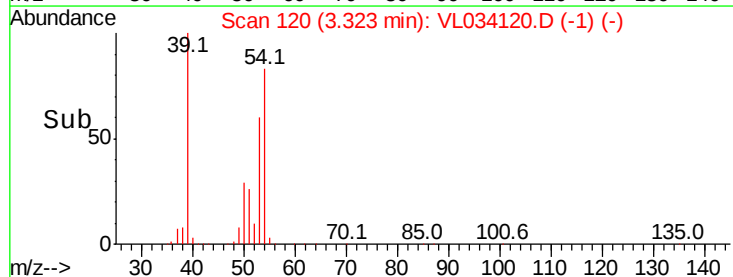
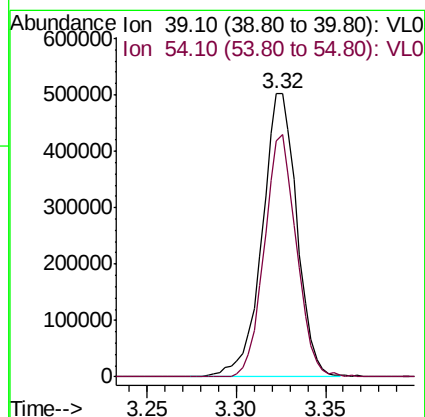
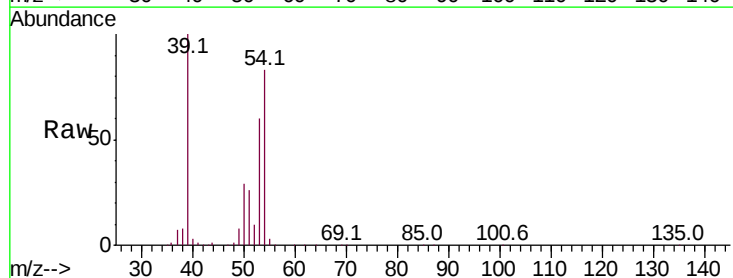
Acq: 5 Sep 2019 2:28

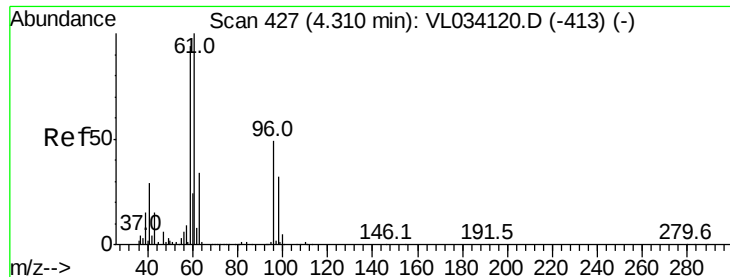
Tgt Ion: 39 Resp: 684976

Ion Ratio Lower Upper

39 100

54 79.4 63.5 95.3





#17

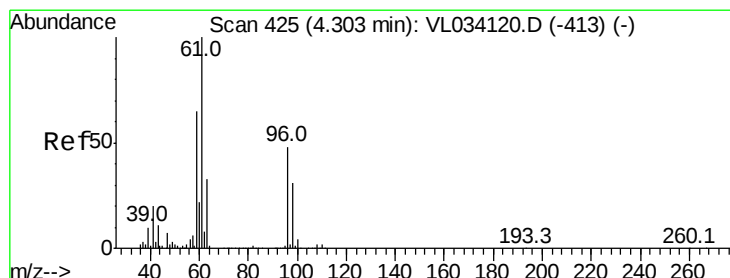
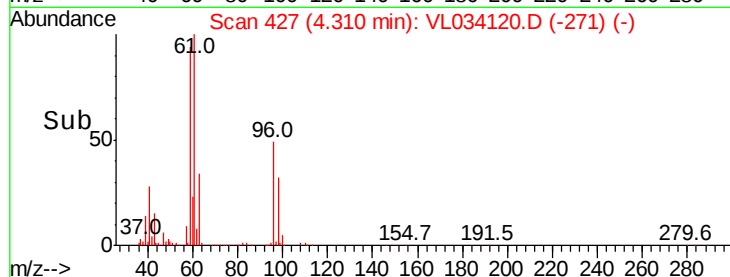
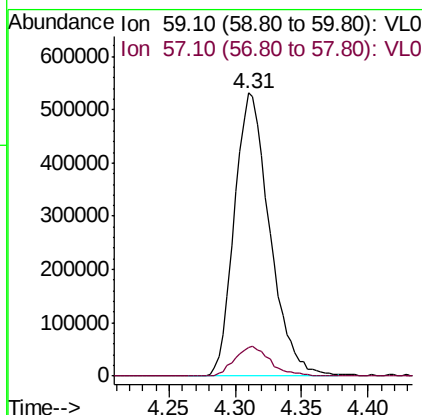
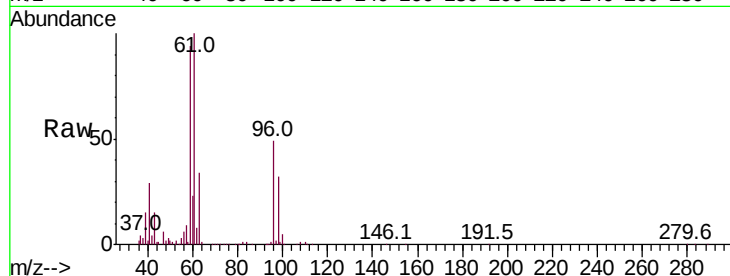
tert-Butyl alcohol
 Concen: 9.447 ppbv
 RT: 4.31 min Scan# 427
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	59	Resp	987061
Ion Ratio	59	100	
Lower	57	10.7	8.6
Upper			12.8

Manual Integrations
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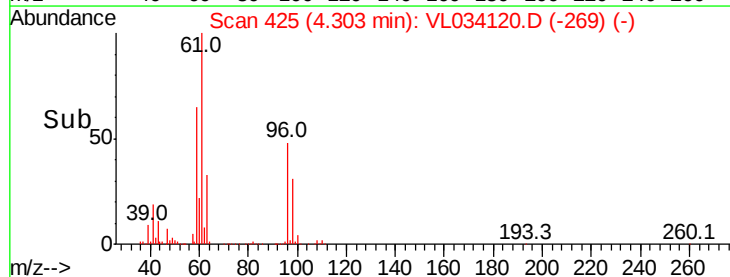
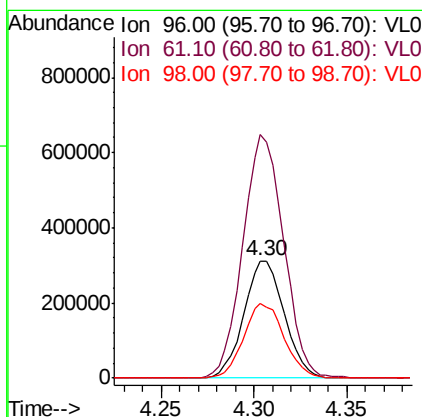
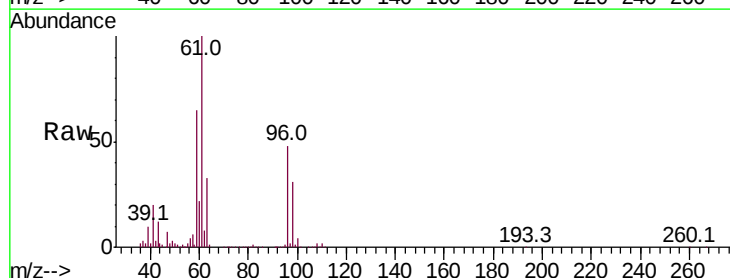
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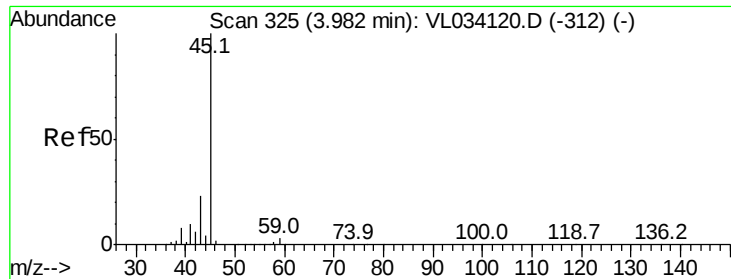


#18

1,1-Dichloroethene
 Concen: 9.641 ppbv
 RT: 4.30 min Scan# 425
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion	96	Resp	472763
Ion Ratio	96	100	
Lower	61	207.3	165.8
Upper	98	63.5	50.8
			76.2





#19

Isopropyl Alcohol

Concen: 8.815 ppbv

RT: 3.98 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 853772

Ion Ratio Lower Upper

45 100

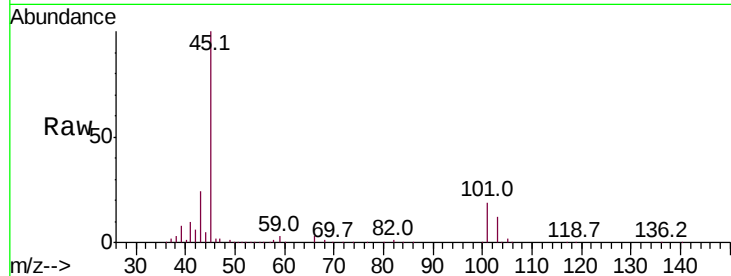
58 1.3 1.0 1.6

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

500000

400000

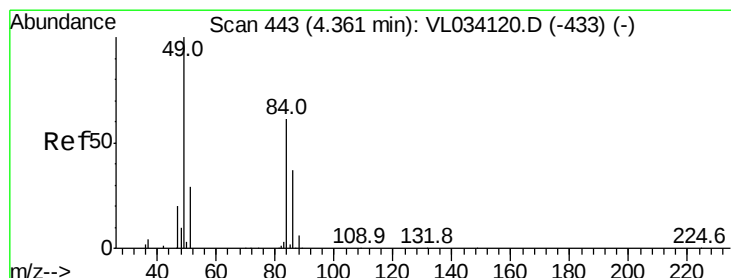
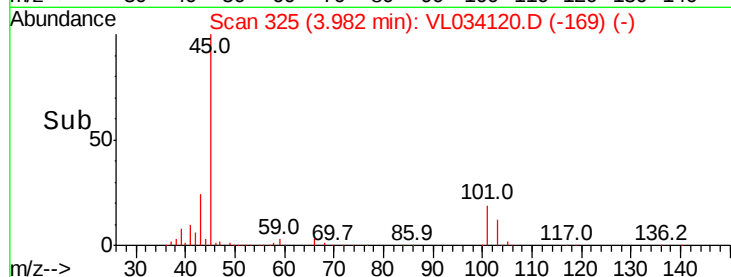
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.779 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Tgt Ion: 84 Resp: 417784

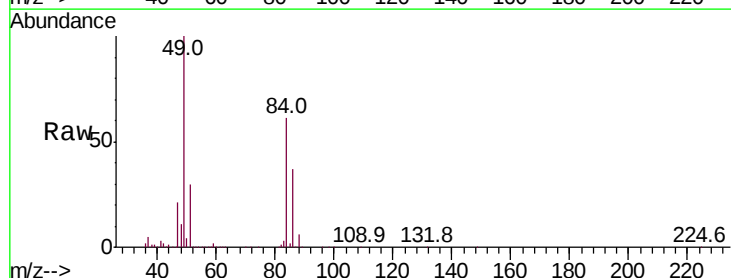
Ion Ratio Lower Upper

84 100

49 163.8 131.0 196.6

51 47.6 38.1 57.1

86 61.3 49.0 73.6



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

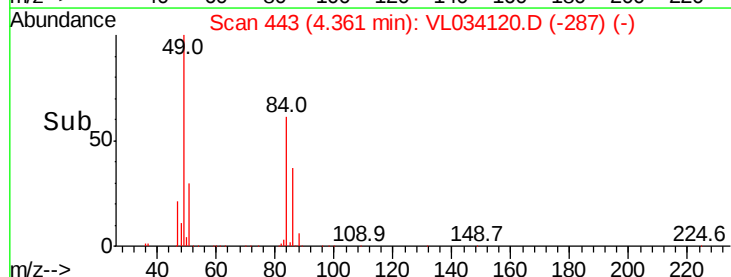
600000

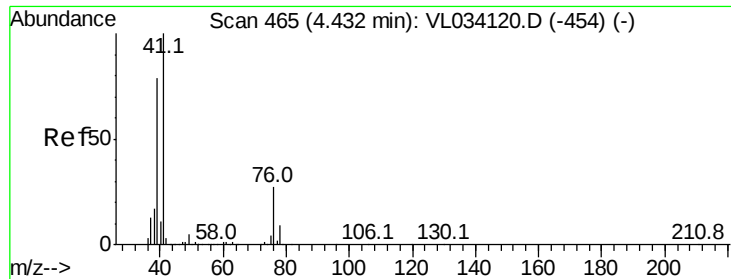
400000

200000

0

Time-->





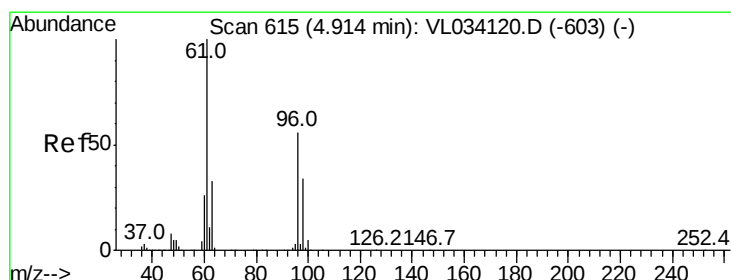
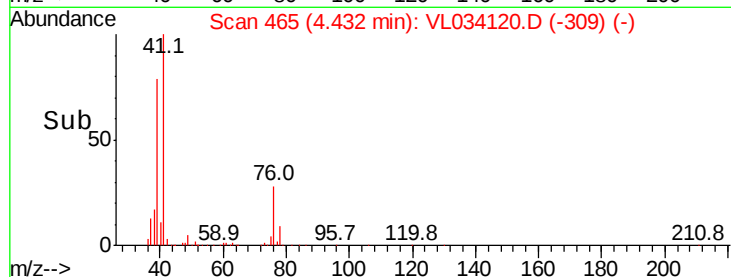
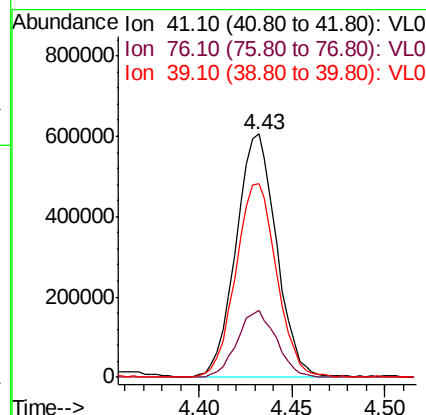
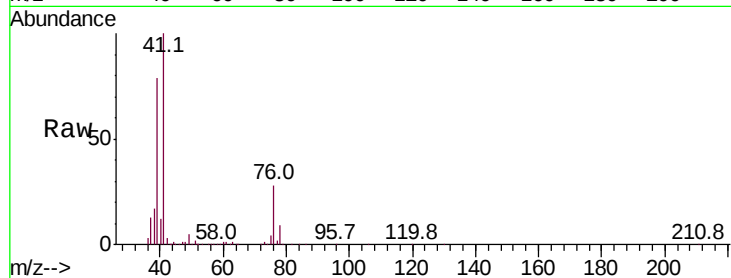
#21
Allvl Chloride
Concen: 9.598 ppbv
RT: 4.43 min Scan# 465
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
41	100	910738		
76	27.1		21.6	32.4
39	81.0		65.0	97.4

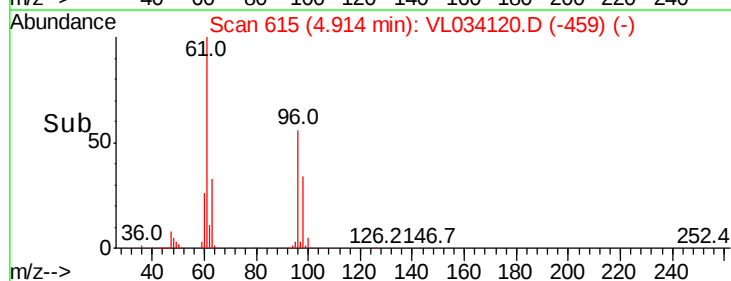
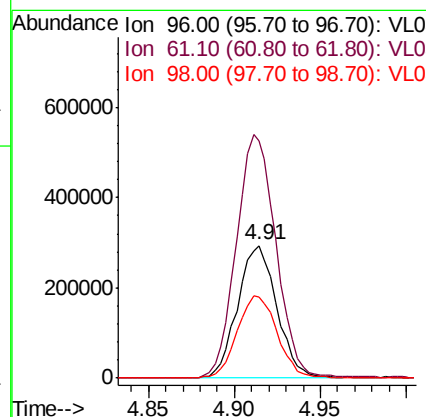
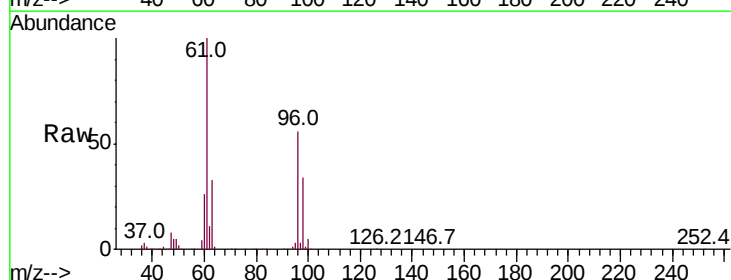
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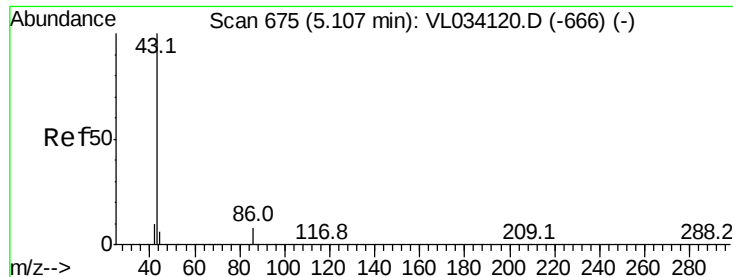
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#22
trans-1,2-Dichloroethene
Concen: 9.457 ppbv
RT: 4.91 min Scan# 615
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	464801		
61	178.9		143.1	214.7
98	61.2		49.0	73.4





#23

Vinyl Acetate

Concen: 9.501 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2320161

Ion Ratio Lower Upper

43 100

86 6.9 5.5 8.3

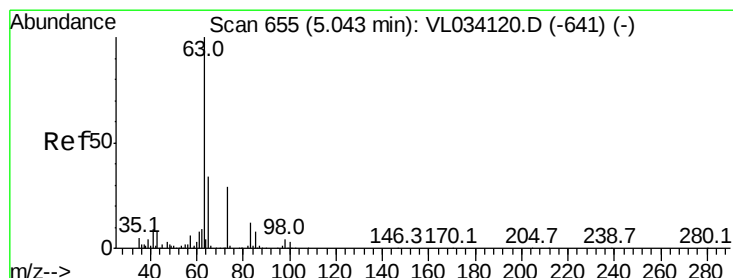
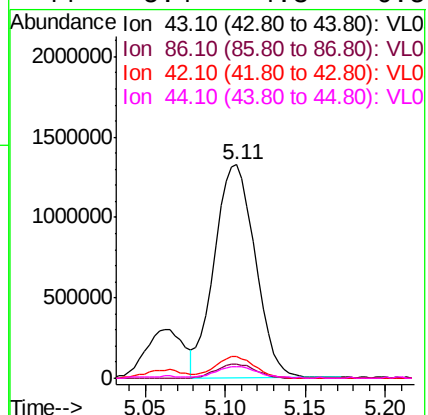
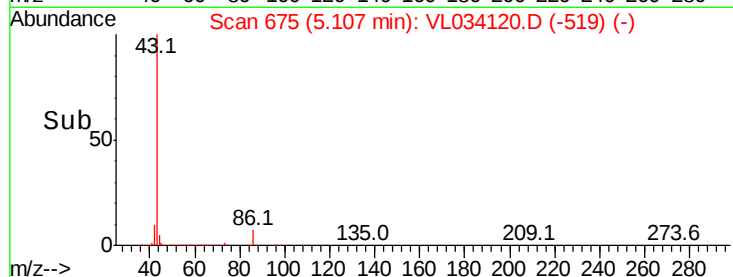
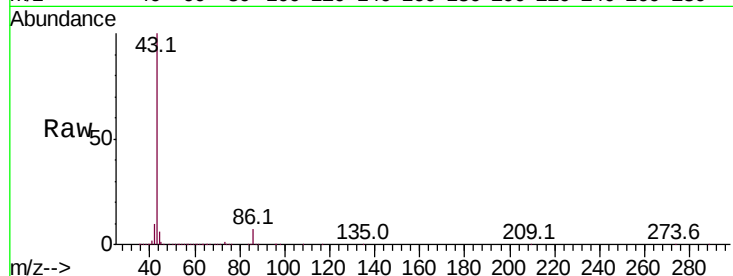
42 10.3 8.2 12.4

44 5.4 4.3 6.5

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#24

1,1-Dichloroethane

Concen: 9.124 ppbv

RT: 5.04 min Scan# 655

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

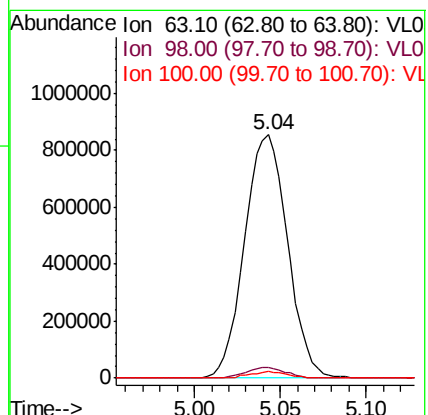
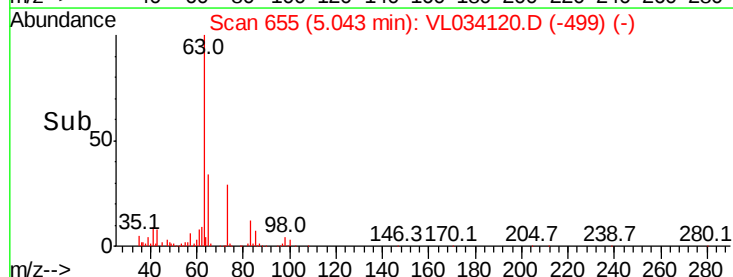
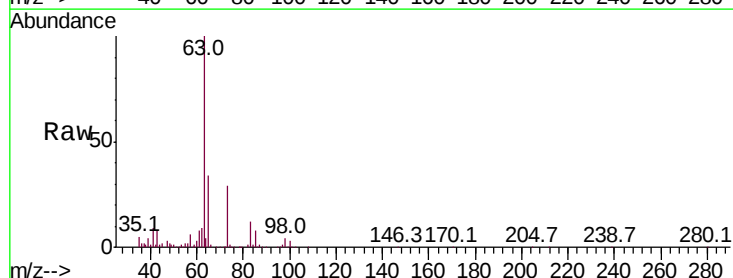
Tgt Ion: 63 Resp: 1478676

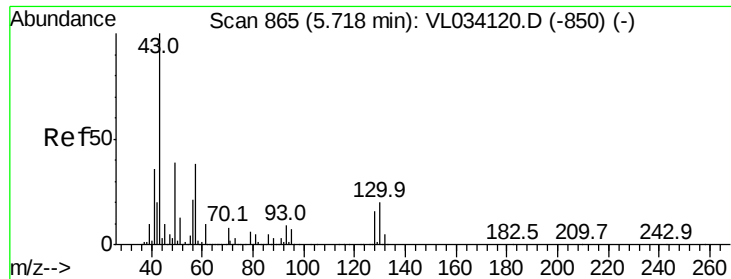
Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.2

100 2.7 1.4 4.0





#25

Ethyl Acetate

Concen: 8.706 ppbv

RT: 5.72 min Scan# 865

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2748840

Ion Ratio Lower Upper

43 100

45 10.4 8.2 12.4

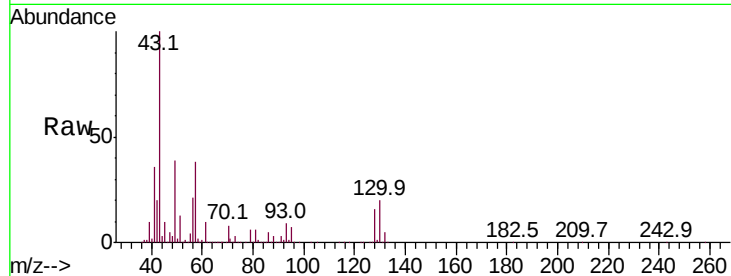
61 9.2 7.4 11.2

70 7.0 5.6 8.4

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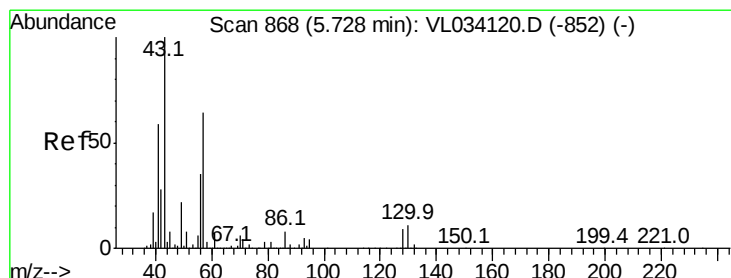
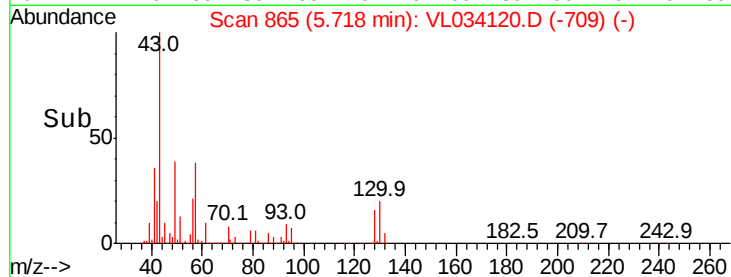
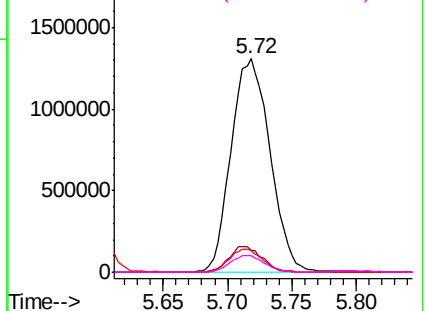


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.360 ppbv

RT: 5.73 min Scan# 868

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Tgt Ion: 57 Resp: 1174262

Ion Ratio Lower Upper

57 100

41 95.7 76.6 115.0

43 235.1 189.2 283.8

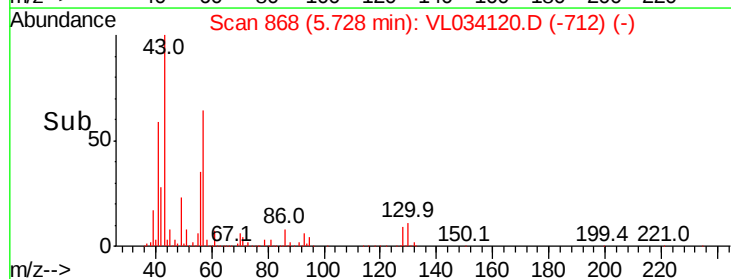
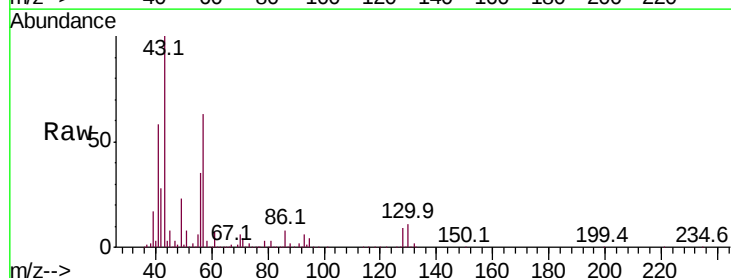
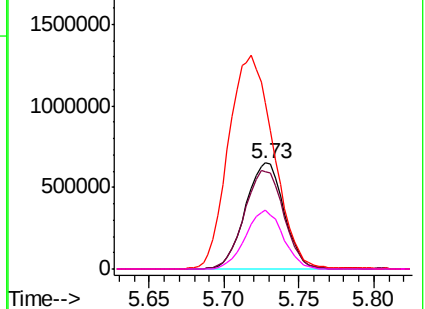
56 53.7 43.0 64.4

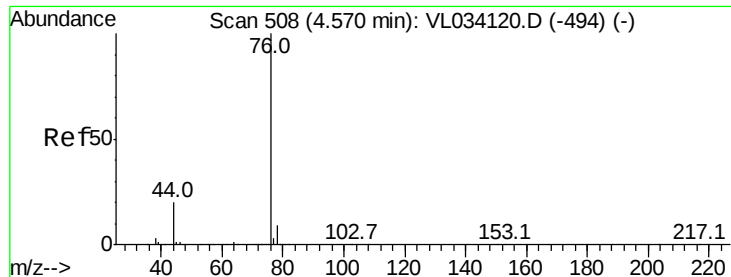
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.042 ppbv

RT: 4.57 min Scan# 508

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1269813

Ion Ratio Lower Upper

76 100

44 22.3 17.6 26.4

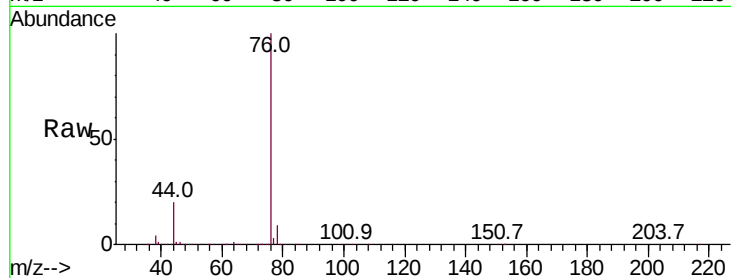
78 9.3 7.3 10.9

Manual Integrations

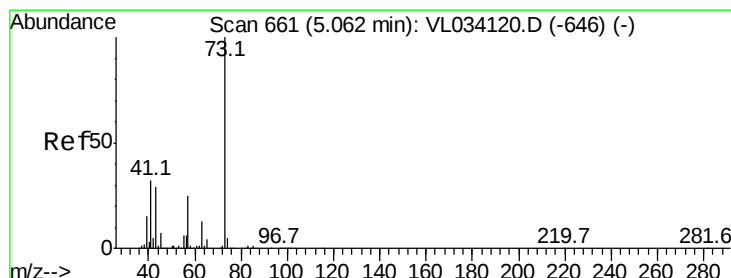
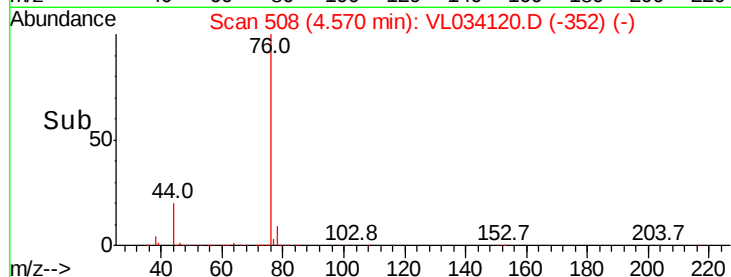
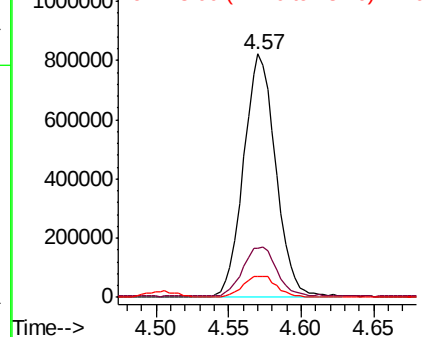
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.362 ppbv

RT: 5.06 min Scan# 661

Delta R.T. 0.00 min

Lab File: VL034120.D

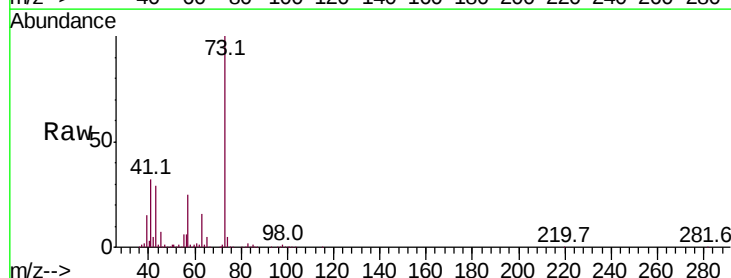
Acq: 5 Sep 2019 2:28

Tgt Ion: 73 Resp: 1926897

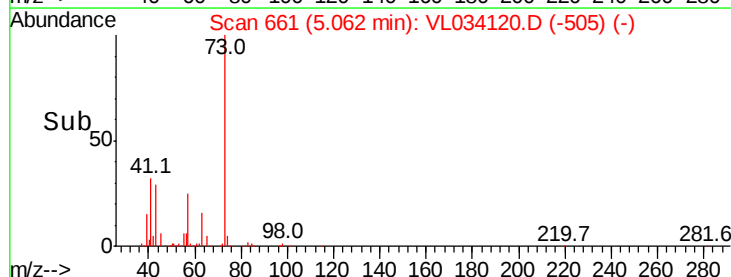
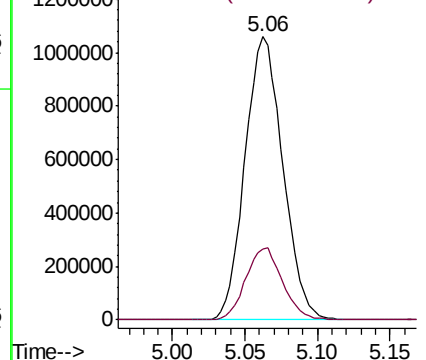
Ion Ratio Lower Upper

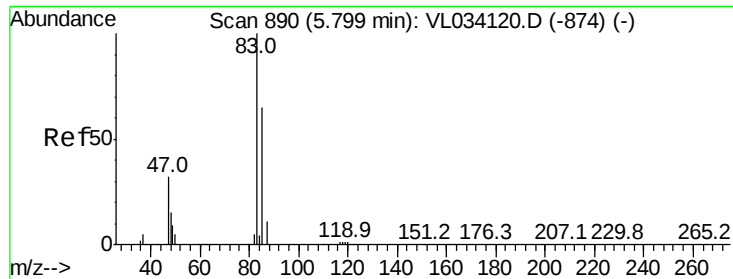
73 100

57 24.7 19.8 29.8



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





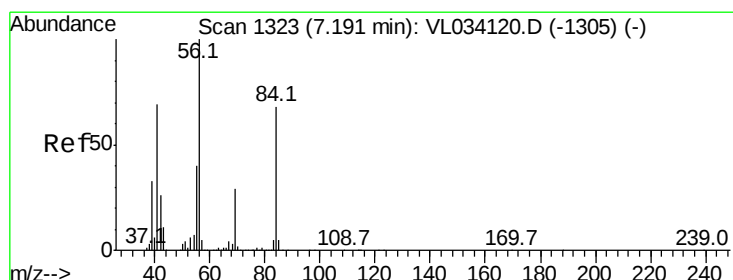
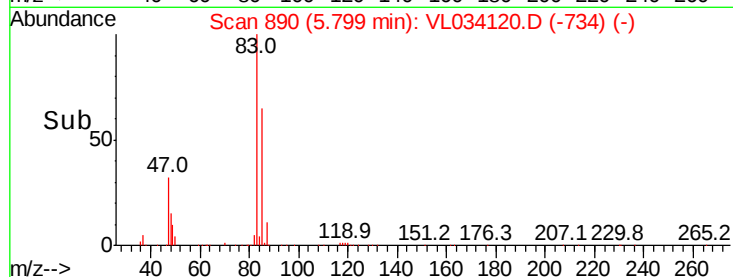
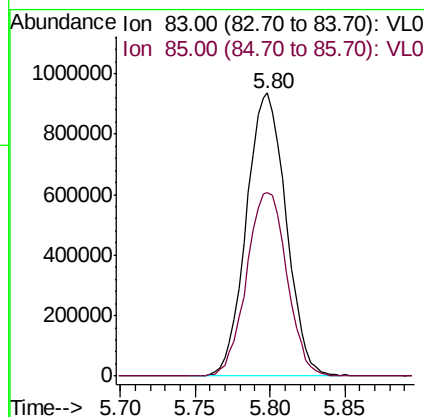
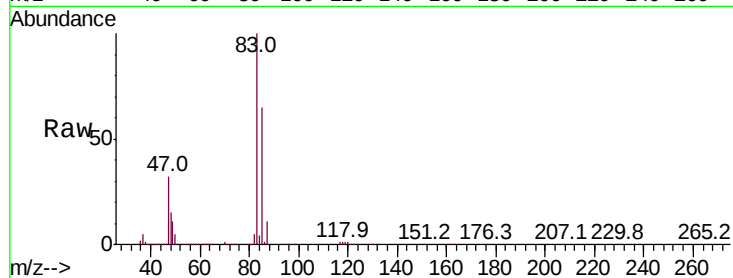
#29
Chloroform
Concen: 9.123 ppbv
RT: 5.80 min Scan# 890
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1728553
Ion Ratio Lower Upper
83 100
85 64.7 51.8 77.6

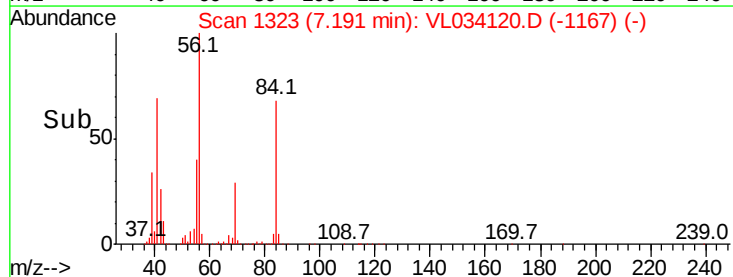
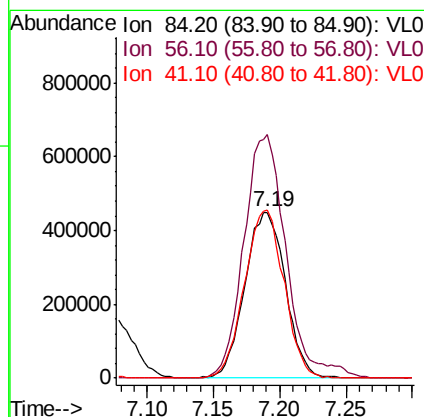
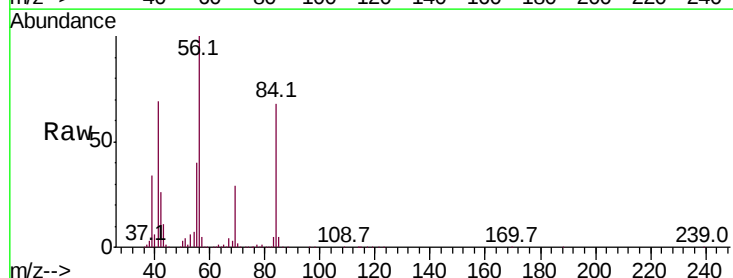
Manual Integrations
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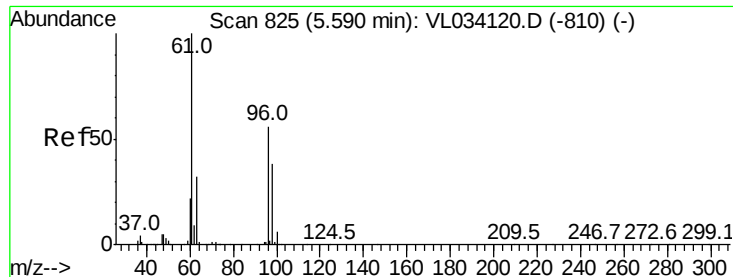
MMDadoda
9/12/2019 5:14:51 AM



#30
Cyclohexane
Concen: 9.449 ppbv
RT: 7.19 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion: 84 Resp: 959529
Ion Ratio Lower Upper
84 100
56 153.2 122.6 183.8
41 98.9 79.1 118.7





#31

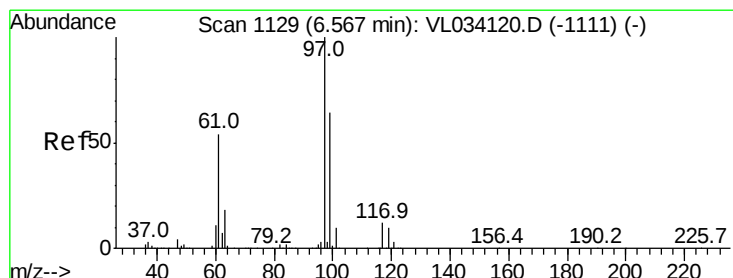
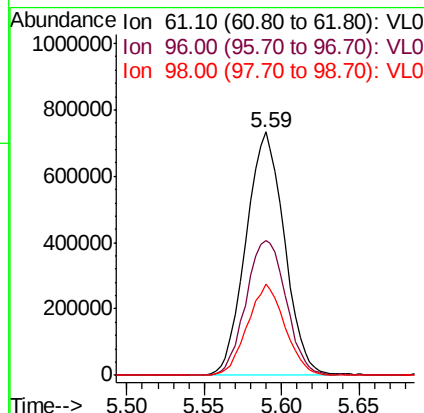
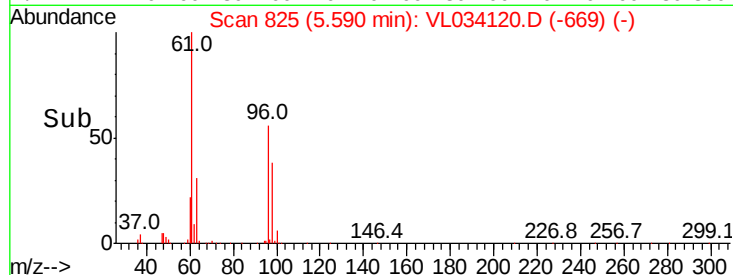
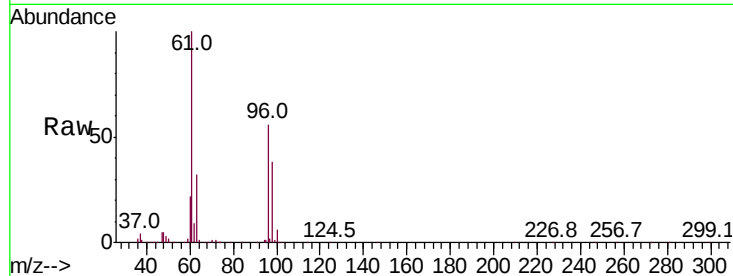
cis-1,2-Dichloroethene
 Concen: 9.442 ppbv
 RT: 5.59 min Scan# 825
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	55.5	44.4	66.6
98	37.5	30.0	45.0

Manual Integrations
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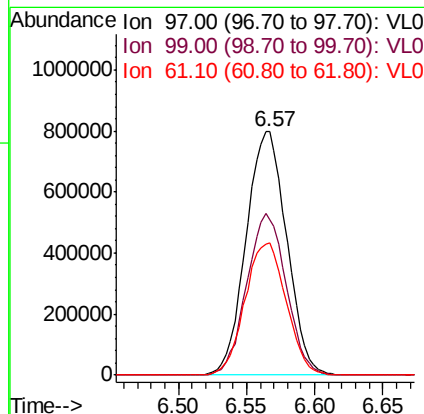
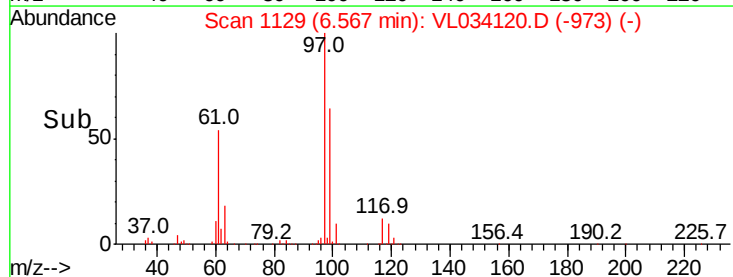
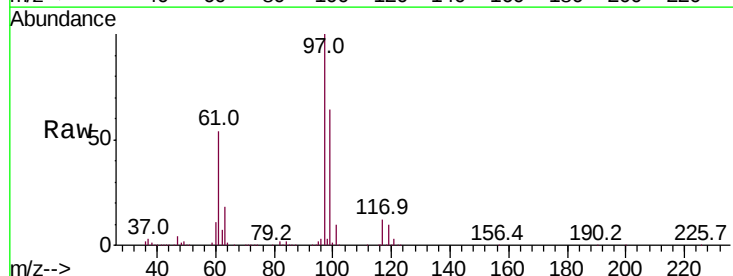
MMDadoda
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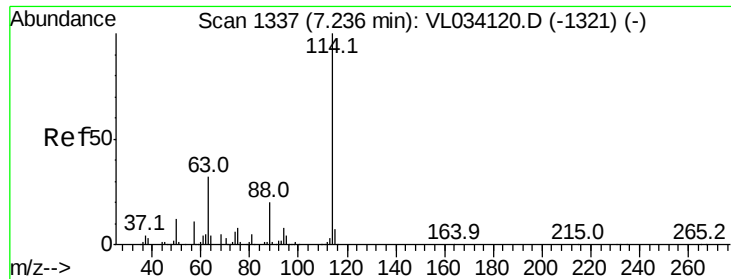


#32

1,1,1-Trichloroethane
 Concen: 9.264 ppbv
 RT: 6.57 min Scan# 1129
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.7	77.5
61	55.0	44.0	66.0





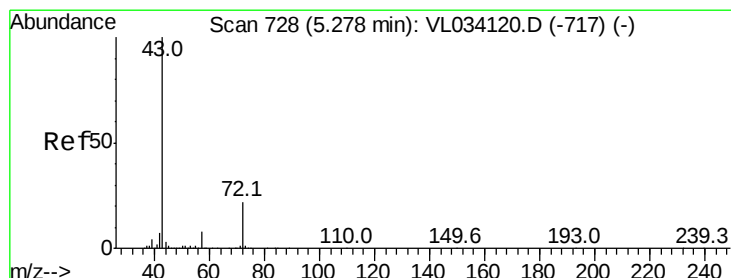
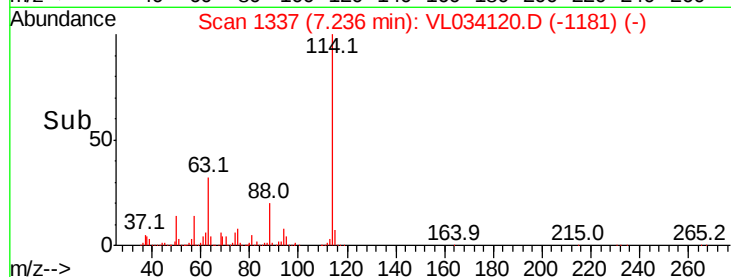
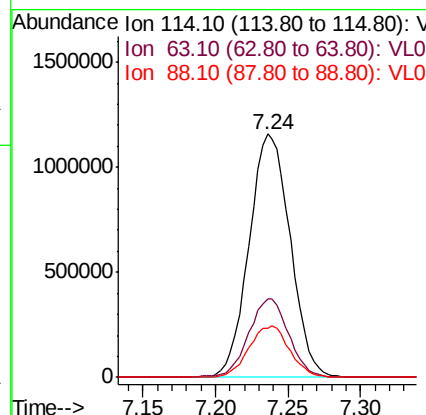
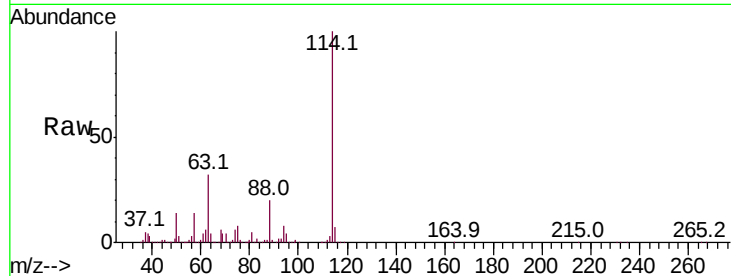
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.9	25.5	38.3
88	21.1	16.8	25.2

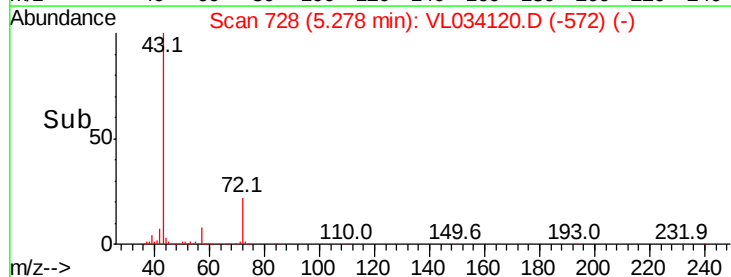
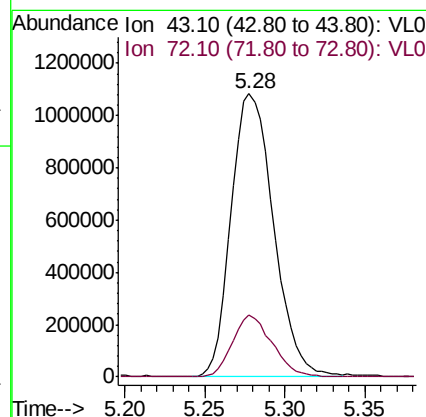
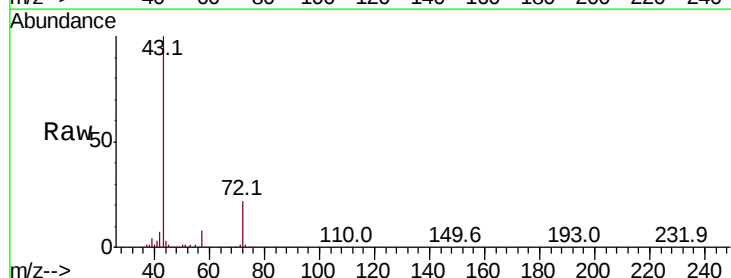
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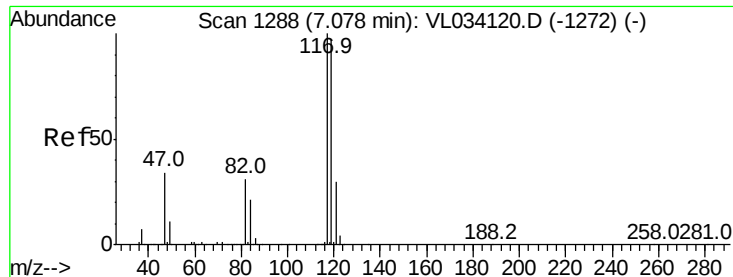
MMDadoda
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#34
 2-Butanone
 Concen: 8.893 ppbv
 RT: 5.28 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.6	16.5	24.7





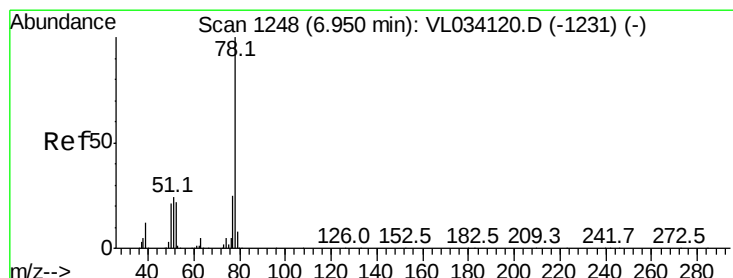
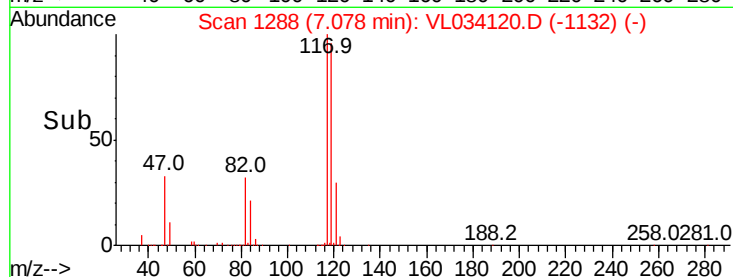
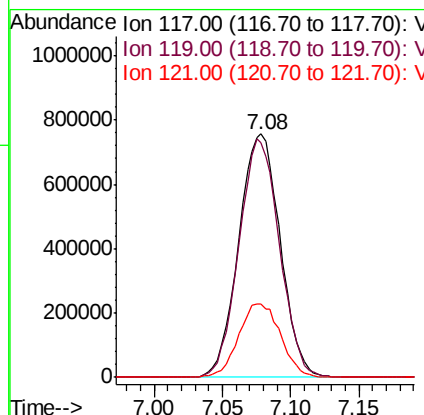
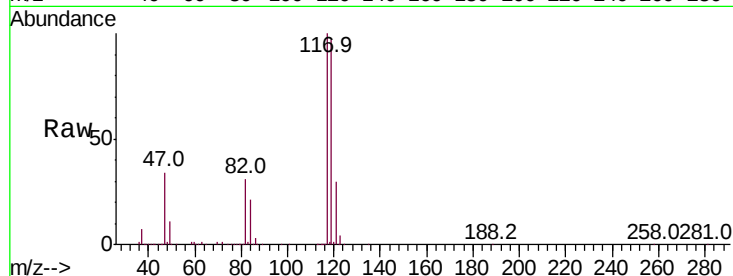
#35
Carbon Tetrachloride
Concen: 9.039 ppbv
RT: 7.08 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.2	115.8
121	30.3	24.2	36.4

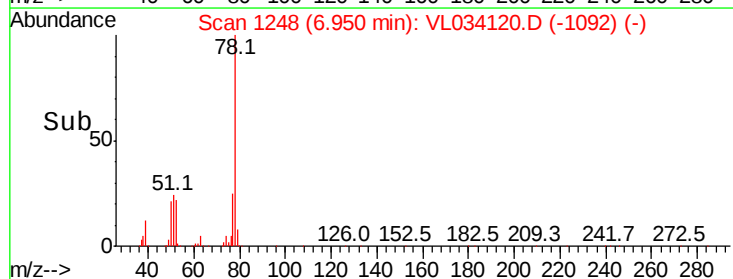
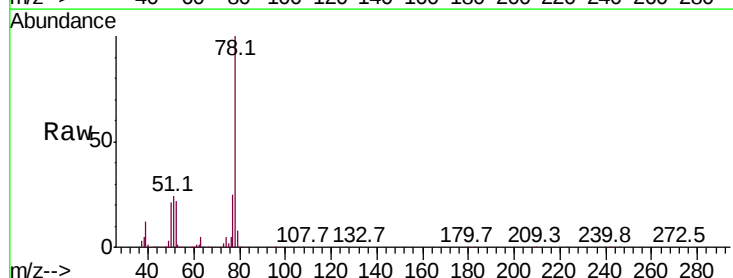
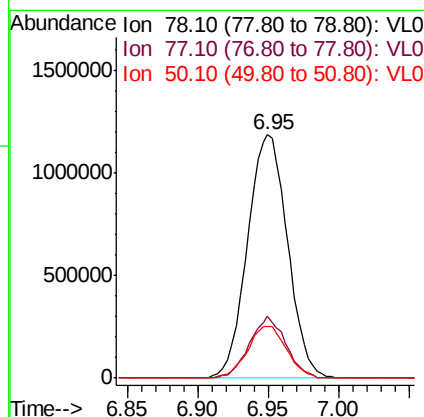
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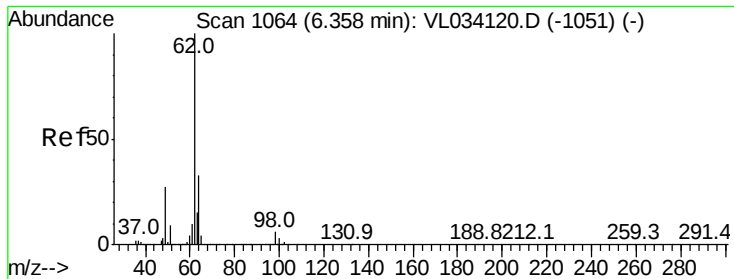
MMDadoda
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#36
Benzene
Concen: 9.032 ppbv
RT: 6.95 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	20.3	30.5
50	21.1	16.9	25.3





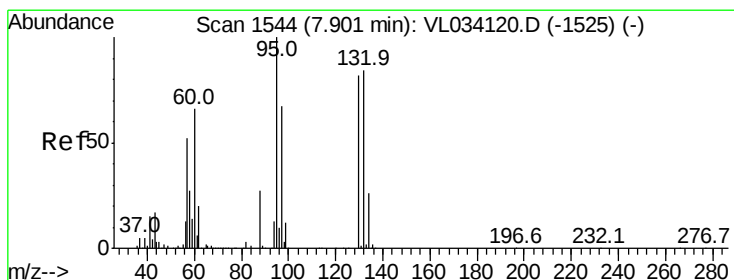
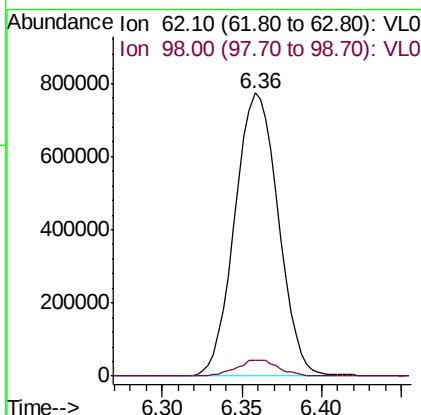
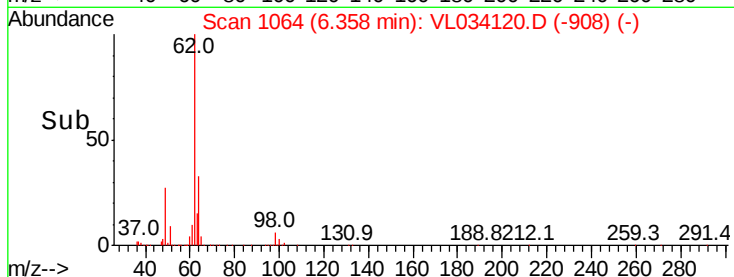
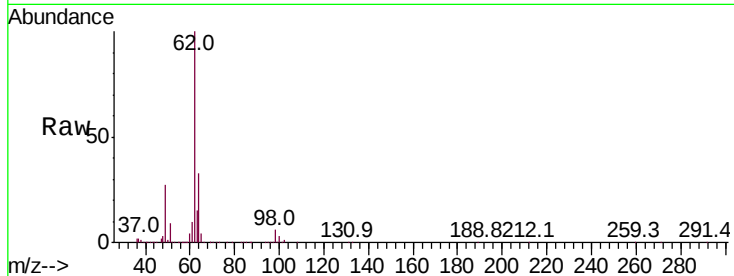
#37
 1,2-Dichloroethane
 Concen: 8.973 ppbv
 RT: 6.36 min Scan# 1064
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 1434486
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.4 6.6

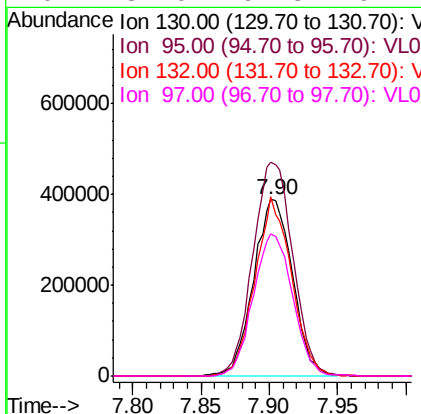
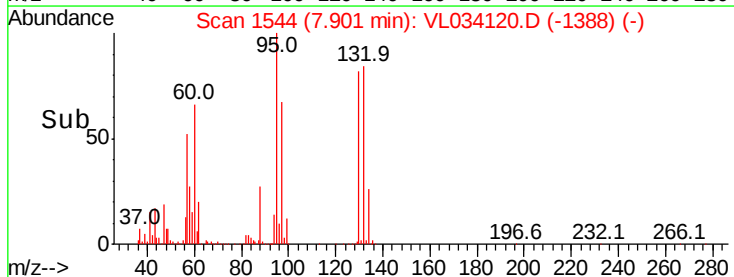
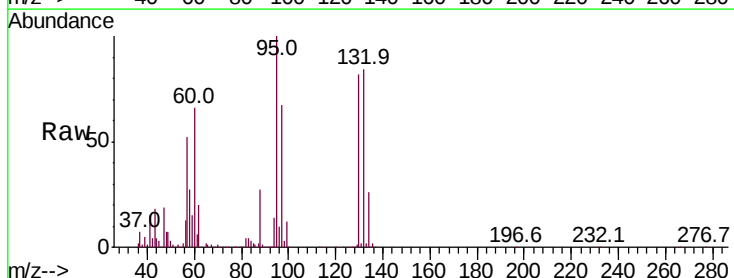
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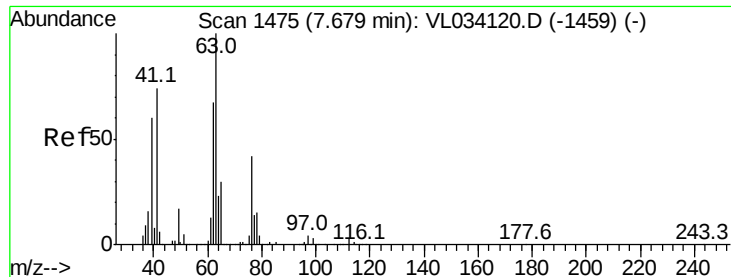
MMDadoda
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#38
 Trichloroethene
 Concen: 7.956 ppbv
 RT: 7.90 min Scan# 1544
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion: 130 Resp: 767706
 Ion Ratio Lower Upper
 130 100
 95 121.5 97.2 145.8
 132 101.8 81.4 122.2
 97 81.0 64.8 97.2





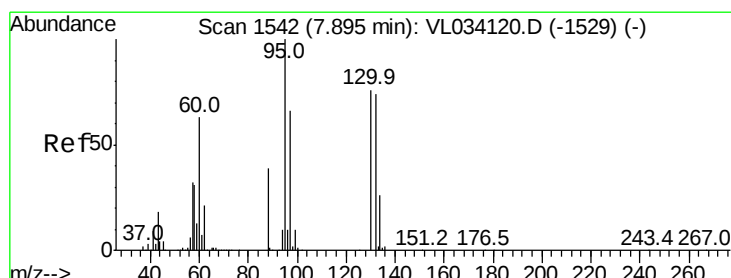
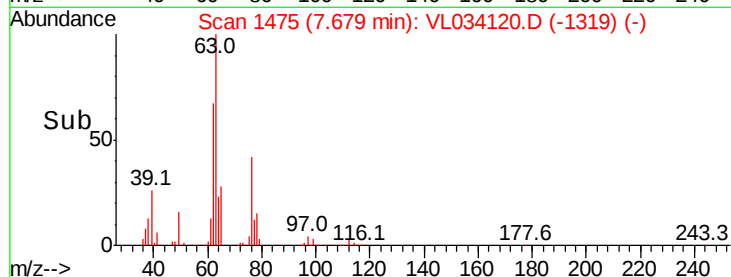
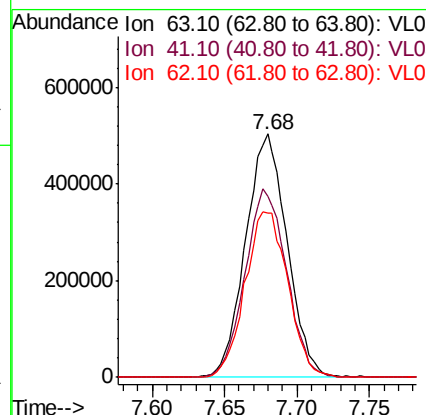
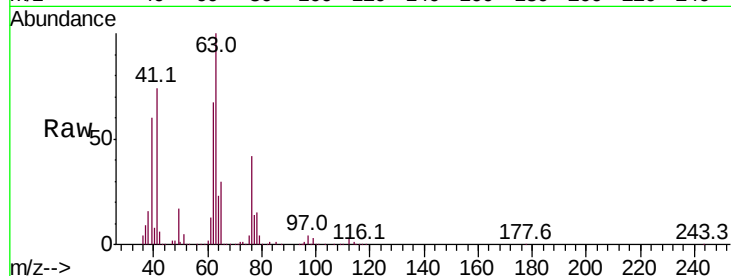
#39
 1,2-Dichloropropane
 Concen: 8.986 ppbv
 RT: 7.68 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.1	59.3	88.9
62	67.2	53.8	80.6

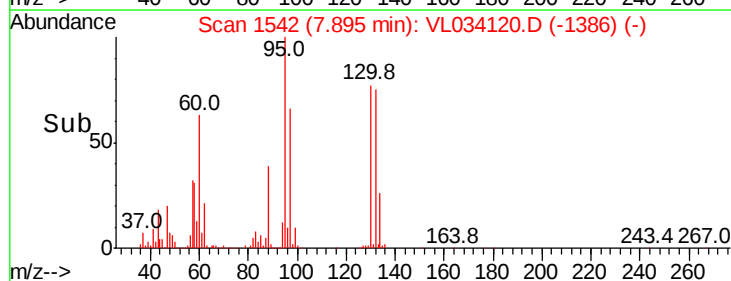
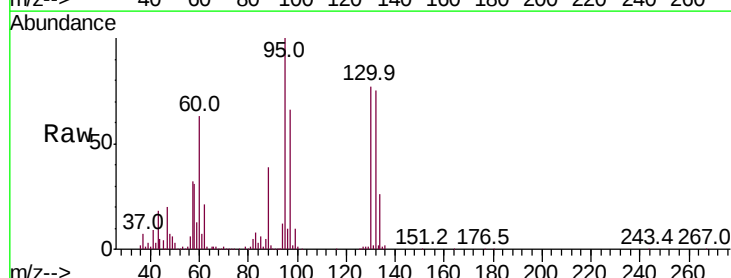
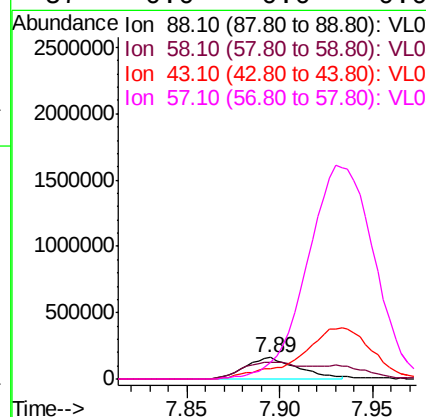
Manual Integrations
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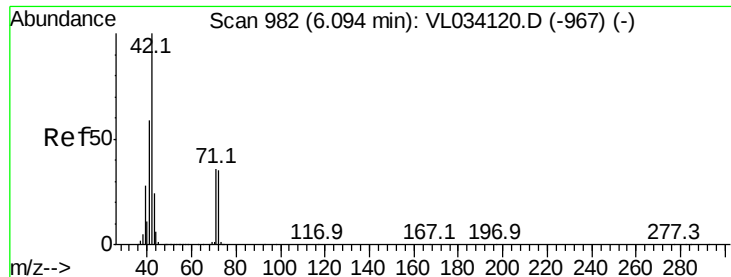
MMDadoda
 9/12/2019 5:14:51 AM



#40
 1,4-Dioxane
 Concen: 7.705 ppbv
 RT: 7.89 min Scan# 1542
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
88	100		
58	152.1	121.7	182.5
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.269 ppbv

RT: 6.09 min Scan# 982

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 42 Resp: 1214338

Ion Ratio Lower Upper

42 100

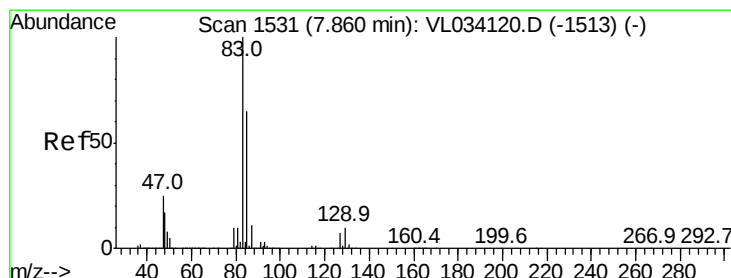
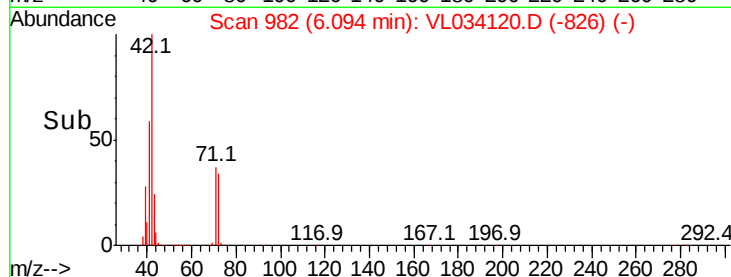
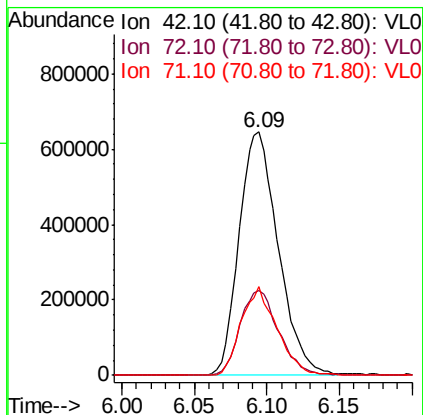
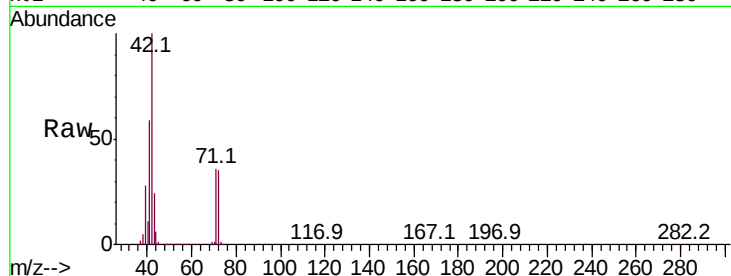
72 34.6 27.7 41.5

71 33.4 26.7 40.1

Manual Integrations
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9/12/2019 5:14:51 AM



#42

Bromodichloromethane

Concen: 9.310 ppbv

RT: 7.86 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

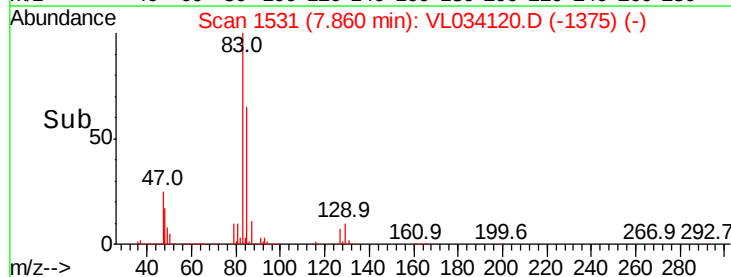
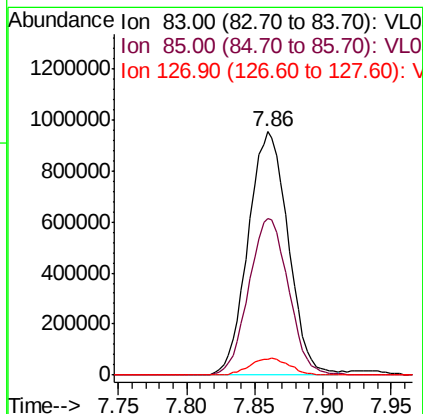
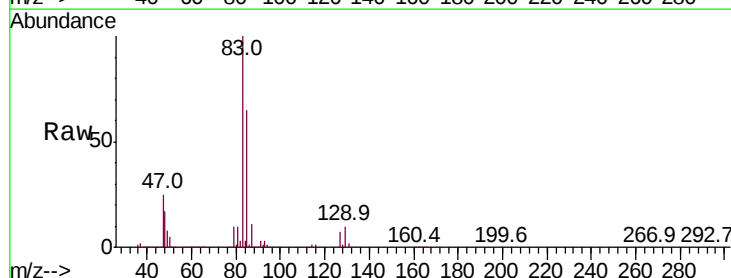
Tgt Ion: 83 Resp: 1942038

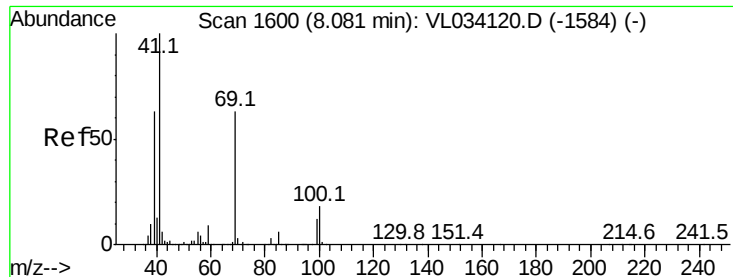
Ion Ratio Lower Upper

83 100

85 64.5 51.6 77.4

127 6.7 5.4 8.0





#43

Methyl Methacrylate

Concen: 9.507 ppbv

RT: 8.08 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

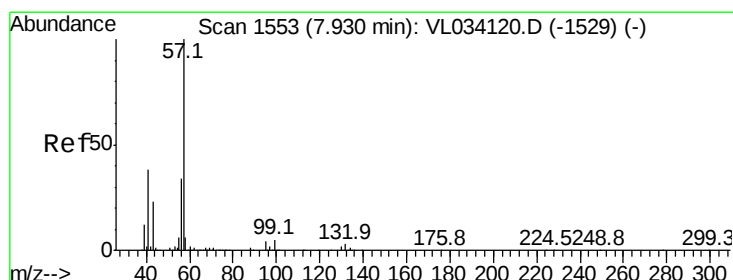
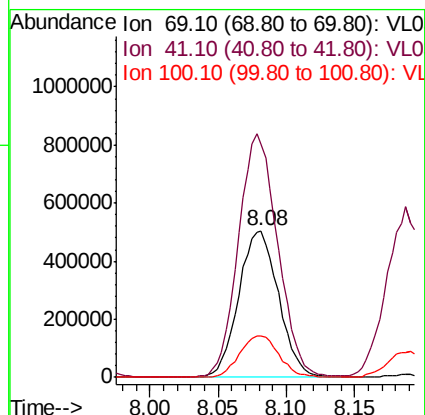
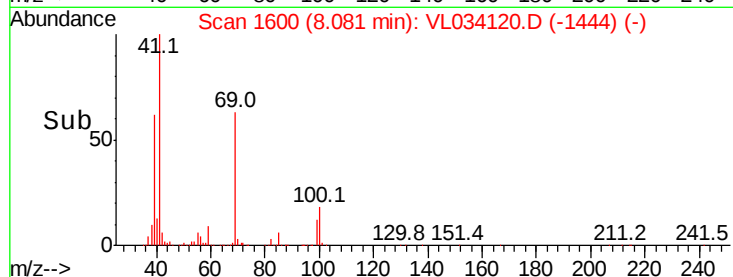
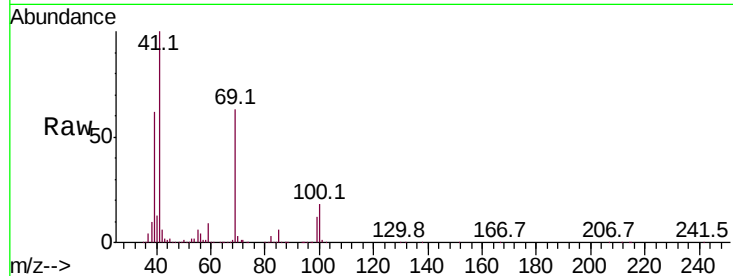
Instrument :
MSVOA_L
ClientSampled :
VSTDICCC010

Tot Ion: 69 Resp: 1021848

Ion	Ratio	Lower	Upper
69	100		
41	164.0	131.0	196.6
100	28.1	22.6	33.8

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 8.395 ppbv

RT: 7.93 min Scan# 1553

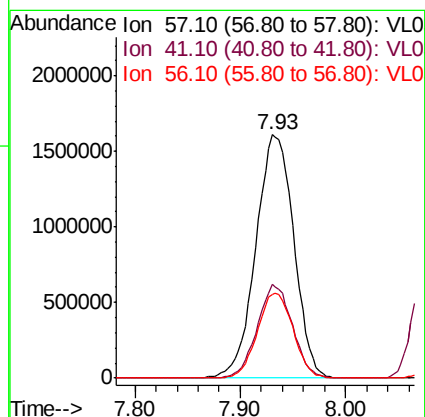
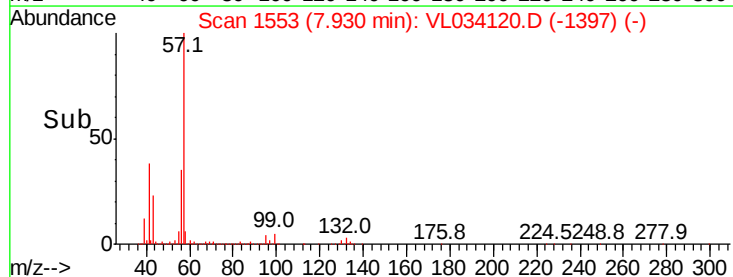
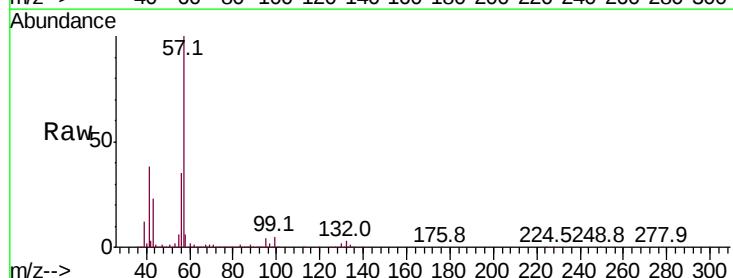
Delta R.T. 0.00 min

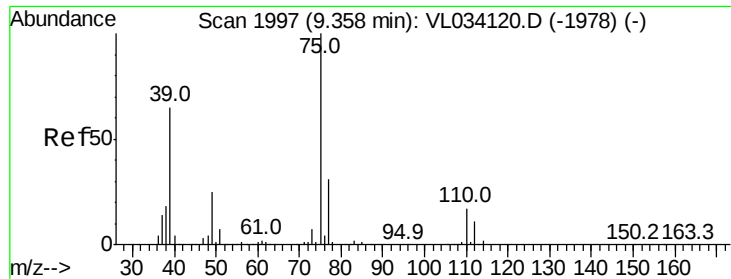
Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Tgt Ion: 57 Resp: 4038280

Ion	Ratio	Lower	Upper
57	100		
41	35.5	28.4	42.6
56	32.9	26.3	39.5





#45
t-1,3-Dichloropropene
Concen: 10.635 ppbv
RT: 9.36 min Scan# 1997
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

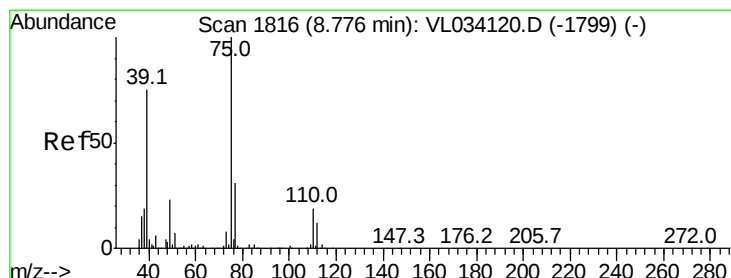
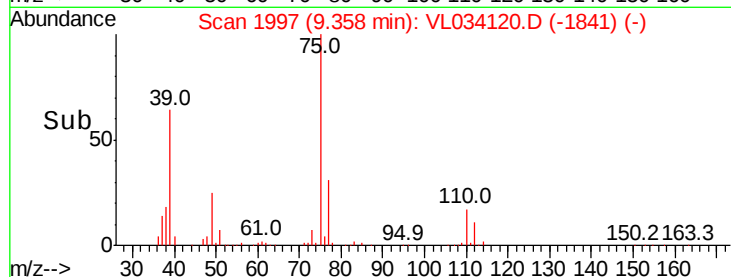
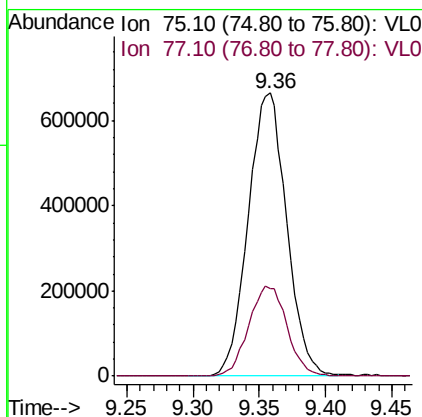
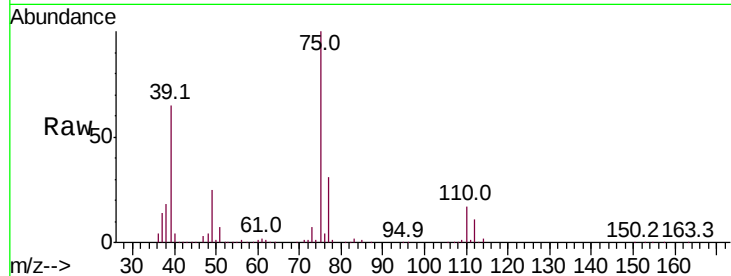
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 75 Resp: 1341730

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.6	36.8

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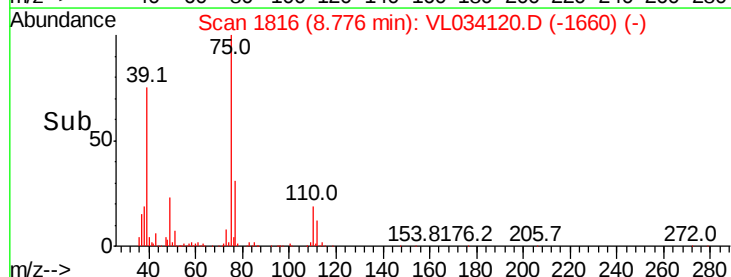
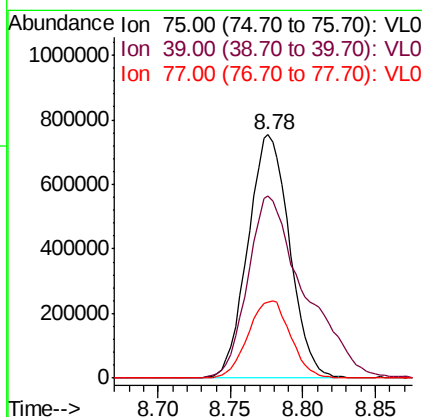
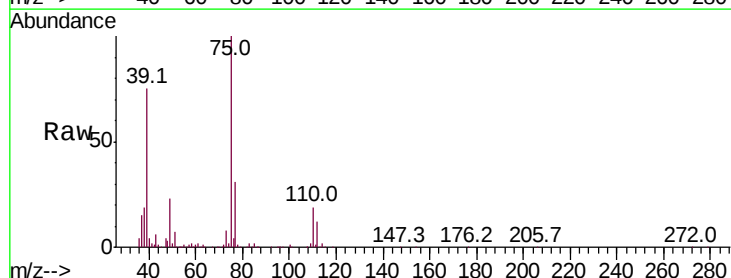
MMDadoda
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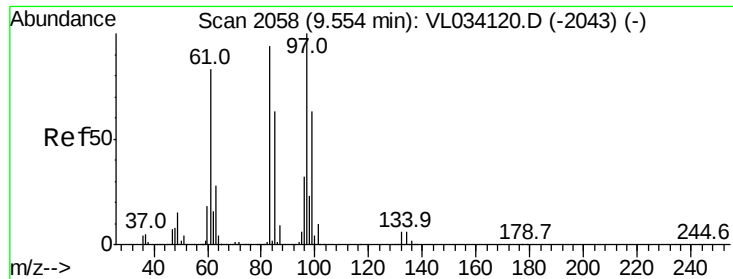


#46
cis-1,3-Dichloropropene
Concen: 9.790 ppbv
RT: 8.78 min Scan# 1816
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion: 75 Resp: 1504706

Ion	Ratio	Lower	Upper
75	100		
39	75.0	60.0	90.0
77	31.0	24.8	37.2





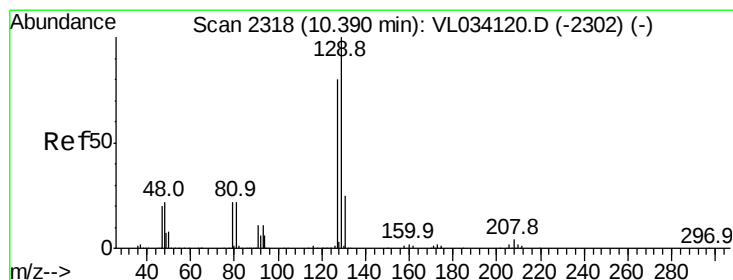
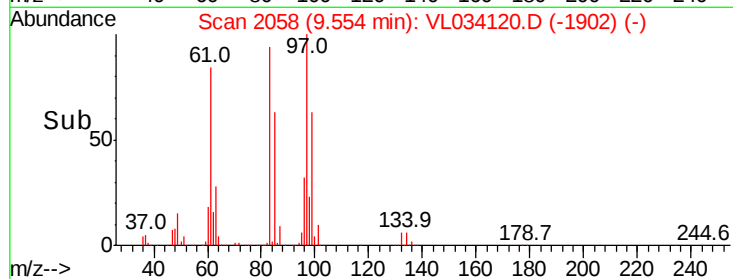
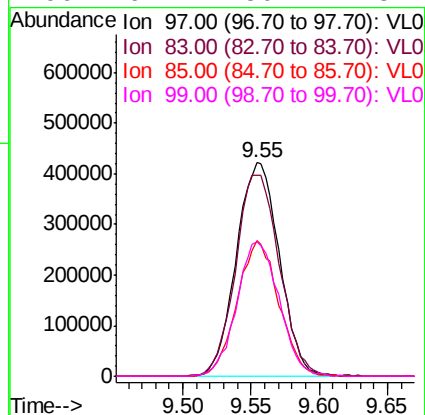
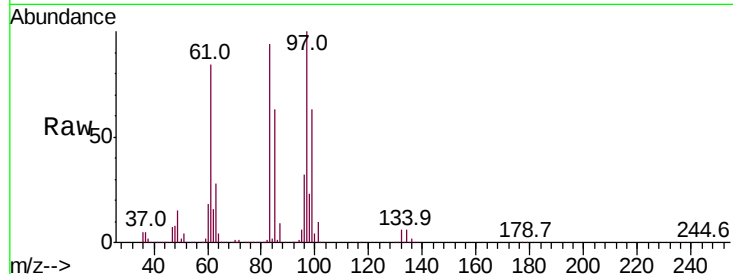
#47
 1,1,2-Trichloroethane
 Concen: 9.099 ppbv
 RT: 9.55 min Scan# 2058
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		924538		
83	93.6	74.9	112.3		
85	63.2	50.6	75.8		
99	62.7	50.2	75.2		

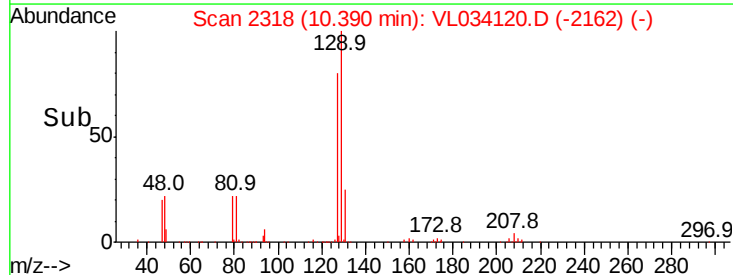
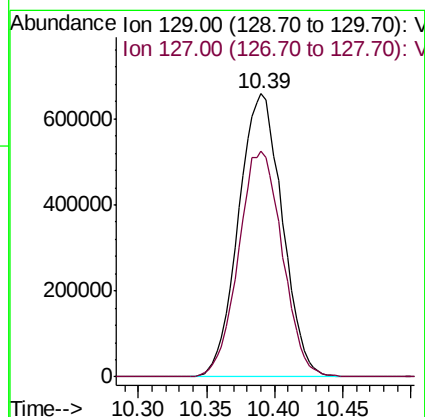
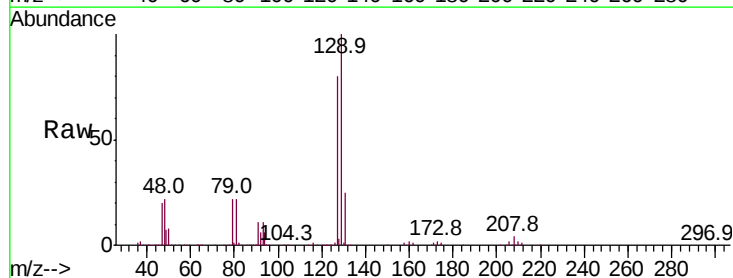
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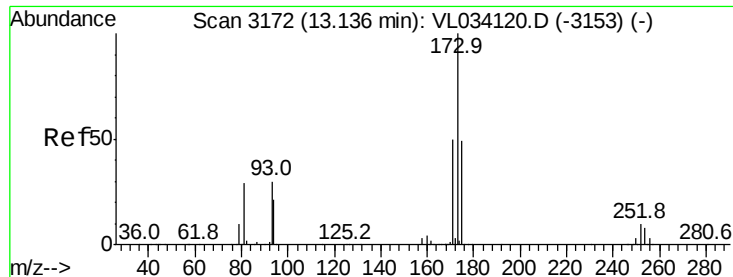
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 9/12/2019 5:14:51 AM



#48
 Dibromochloromethane
 Concen: 9.611 ppbv
 RT: 10.39 min Scan# 2318
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1458819		
127	80.4	40.2	120.6		





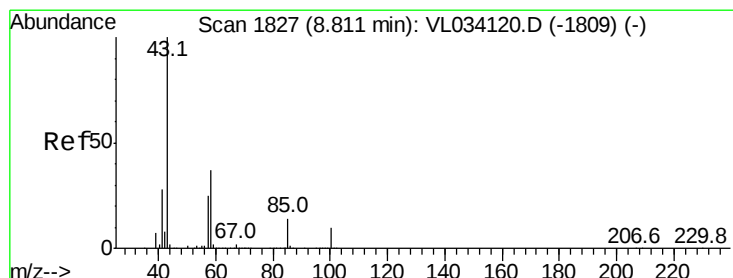
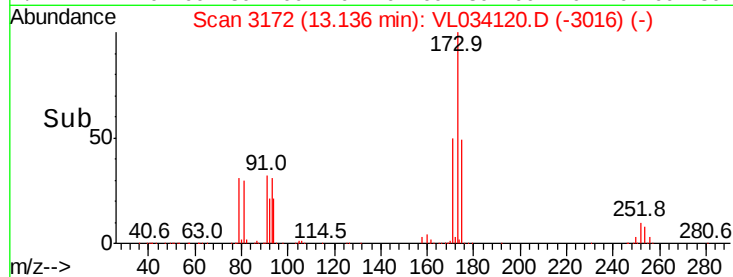
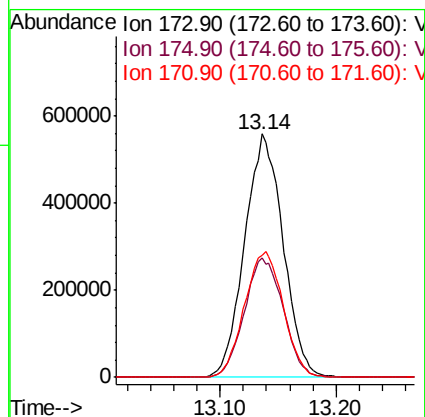
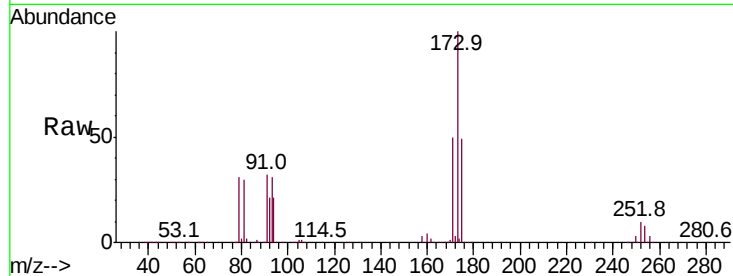
#49
Bromoform
Concen: 9.655 ppbv
RT: 13.14 min Scan# 3172
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.0	40.0	60.0
171	52.5	42.2	63.2

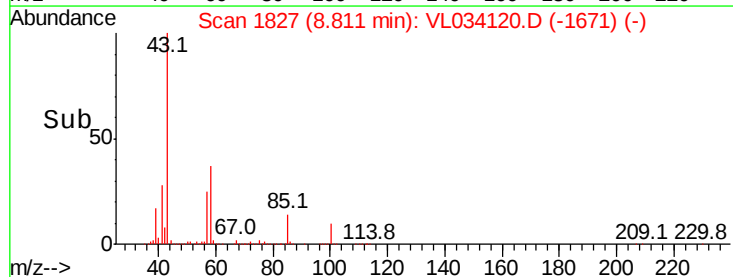
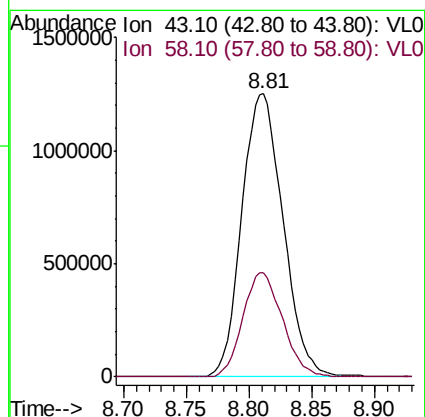
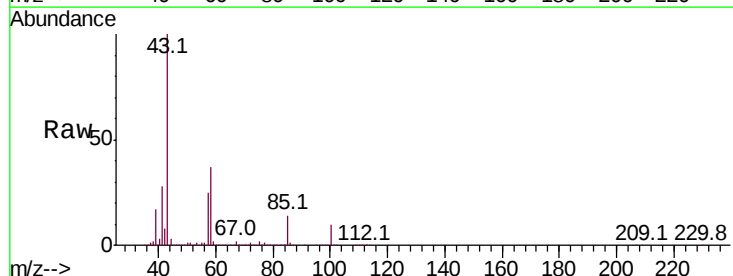
Manual Integrations
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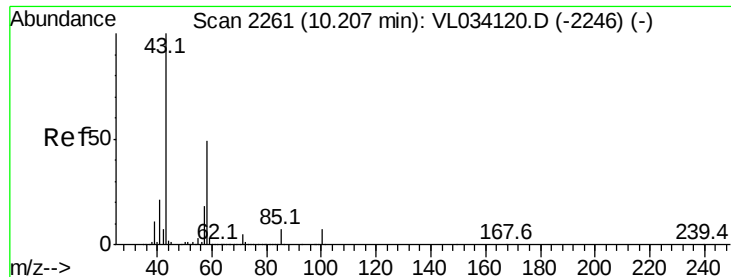
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#50
4-Methyl-2-Pentanone
Concen: 8.551 ppbv
RT: 8.81 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.5	42.7





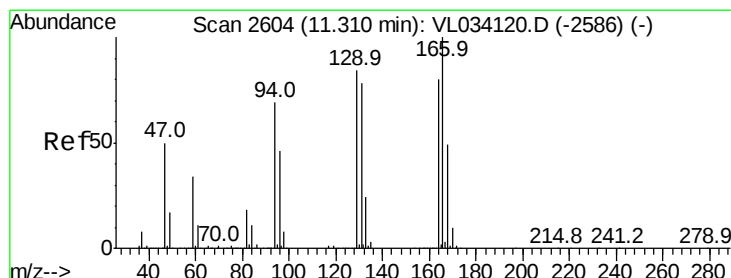
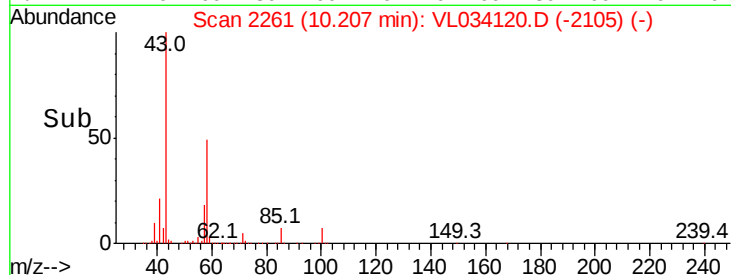
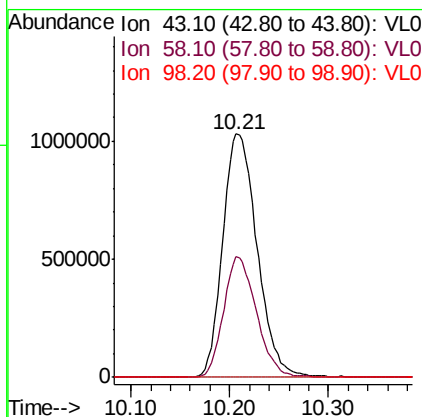
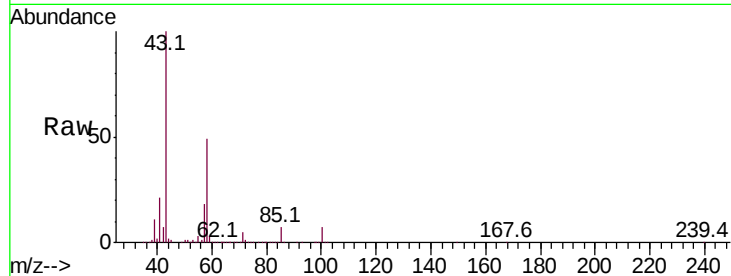
#51
2-Hexanone
Concen: 8.769 ppbv
RT: 10.21 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.6	38.2	57.2
98	0.1	0.1	0.1

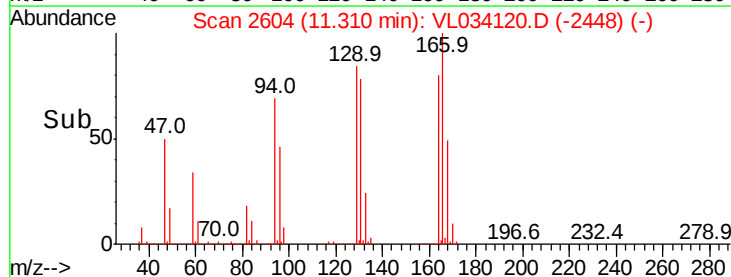
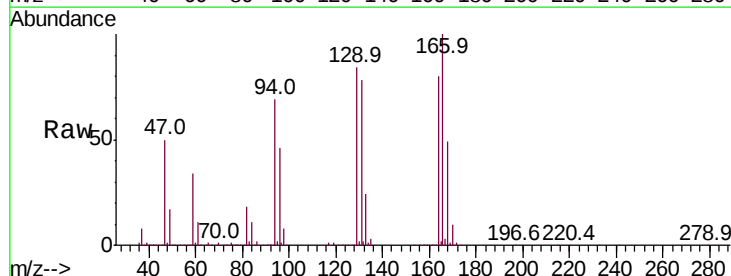
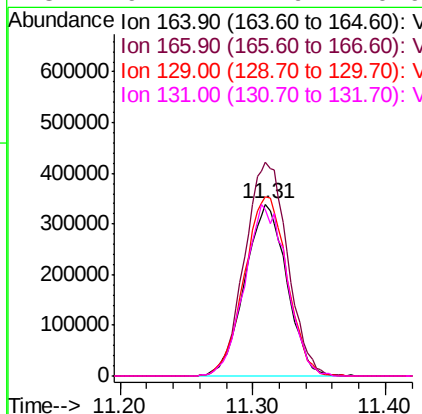
Manual Integrations
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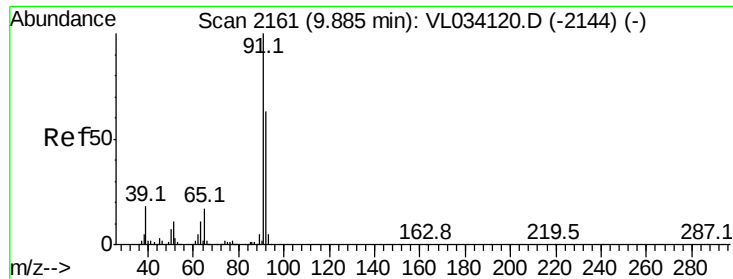
MMDadoda
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#52
Tetrachloroethene
Concen: 8.142 ppbv
RT: 11.31 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.4	99.5	149.3
129	104.5	83.6	125.4
131	97.4	77.9	116.9





#53

Toluene

Concen: 9.021 ppbv

RT: 9.89 min Scan# 2161

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2603013

Ion Ratio Lower Upper

91 100

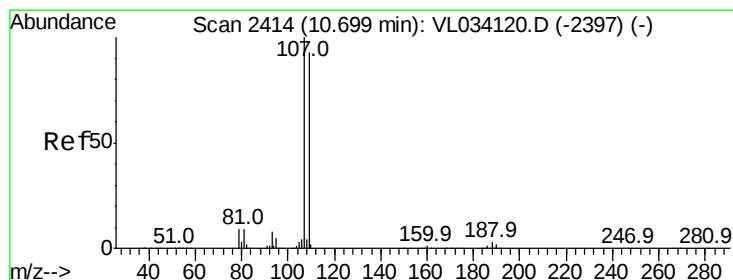
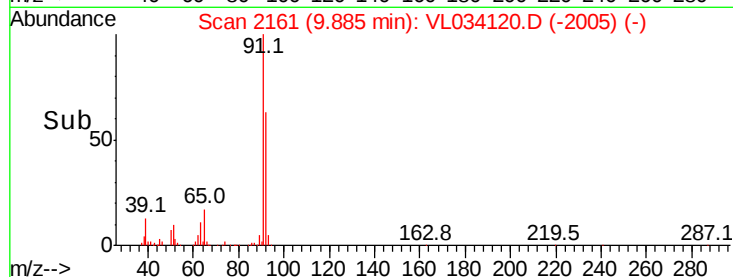
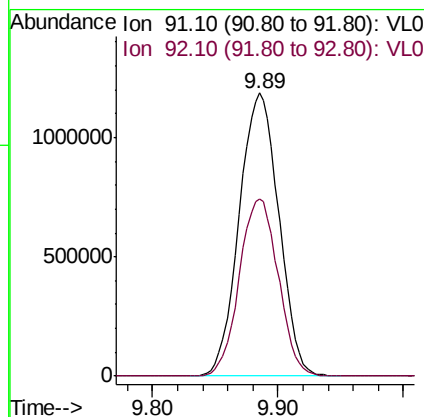
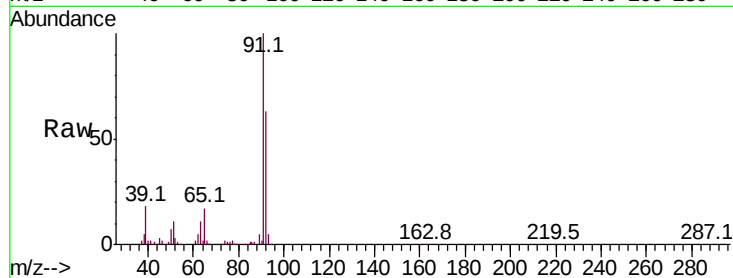
92 61.7 49.3 73.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.079 ppbv

RT: 10.70 min Scan# 2414

Delta R.T. 0.00 min

Lab File: VL034120.D

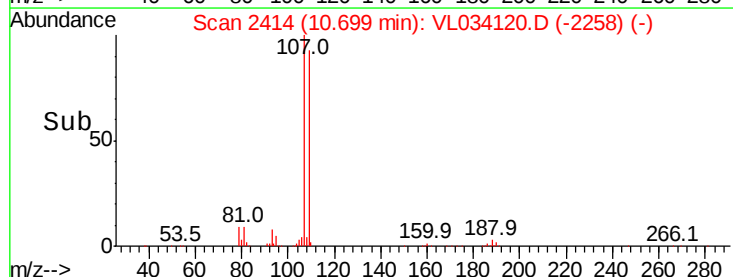
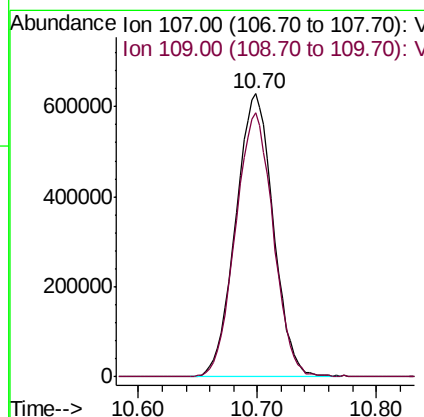
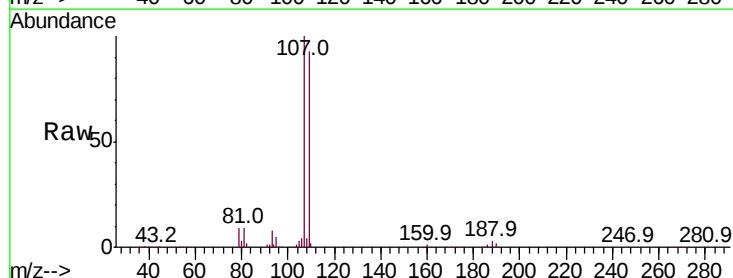
Acq: 5 Sep 2019 2:28

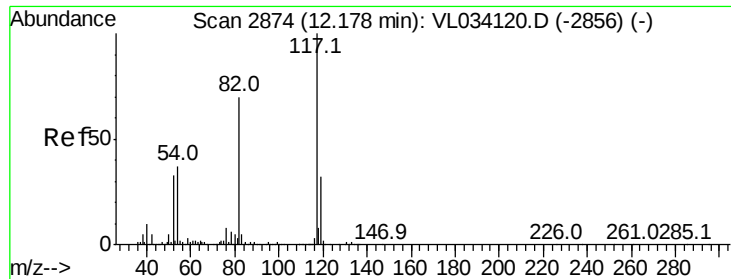
Tgt Ion:107 Resp: 1371990

Ion Ratio Lower Upper

107 100

109 93.1 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2874

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2522152

Ion Ratio Lower Upper

117 100

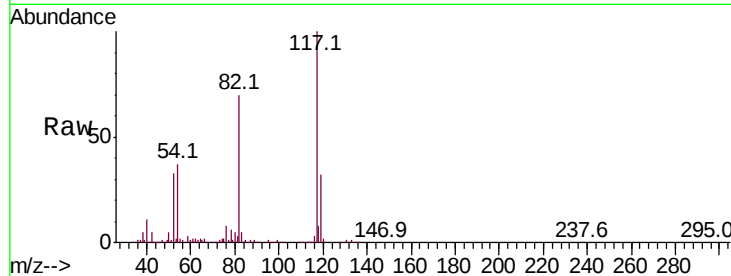
82 69.7 55.8 83.6

119 53.9 43.1 64.7

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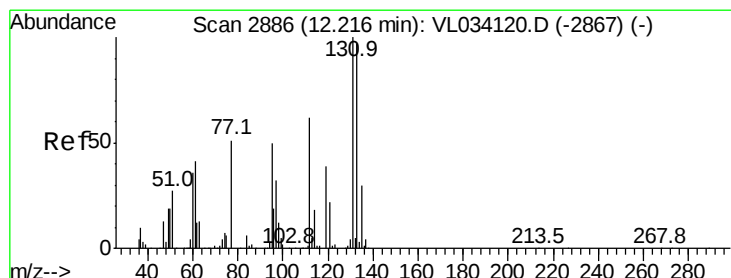
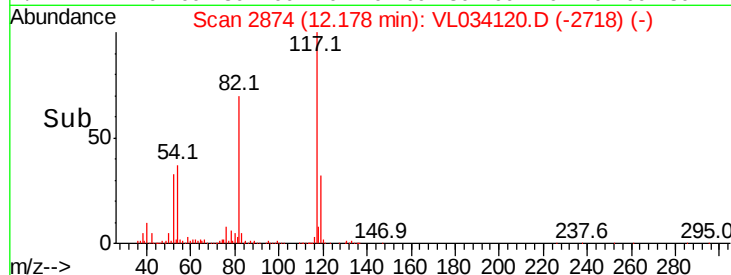
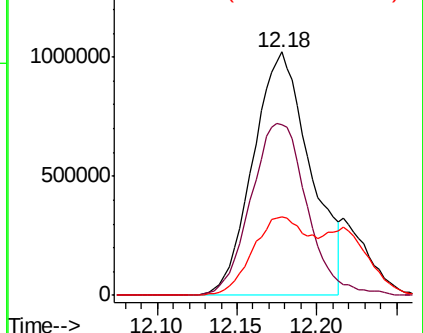
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.757 ppbv

RT: 12.22 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

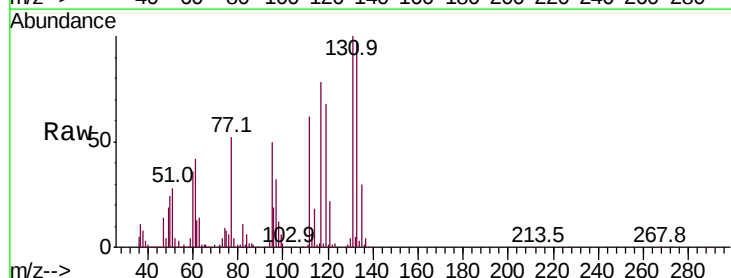
Tgt Ion:131 Resp: 947332

Ion Ratio Lower Upper

131 100

133 94.7 75.8 113.6

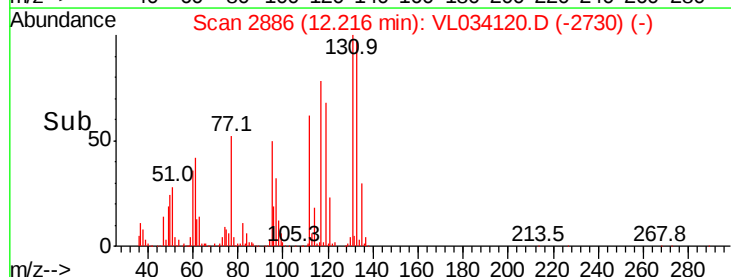
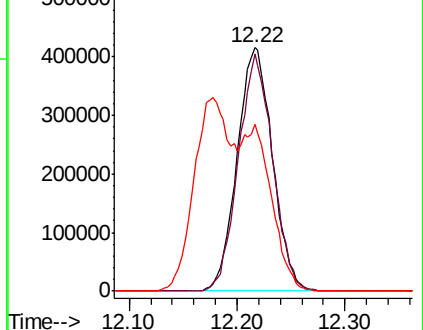
119 143.4 114.7 172.1

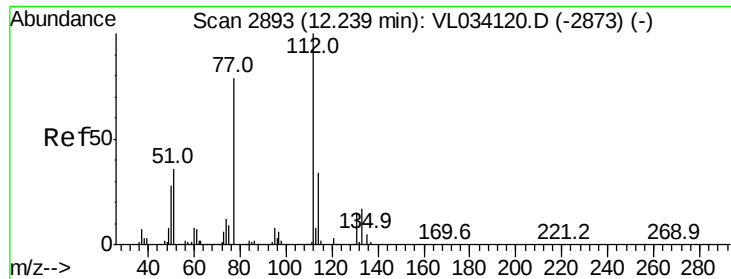


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.319 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 1804870

Ion Ratio Lower Upper

112 100

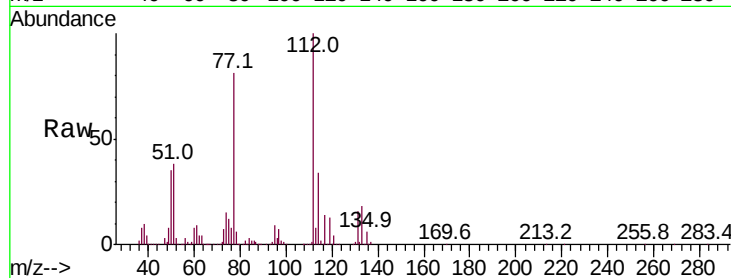
77 80.5 64.4 96.6

114 33.7 30.3 37.1

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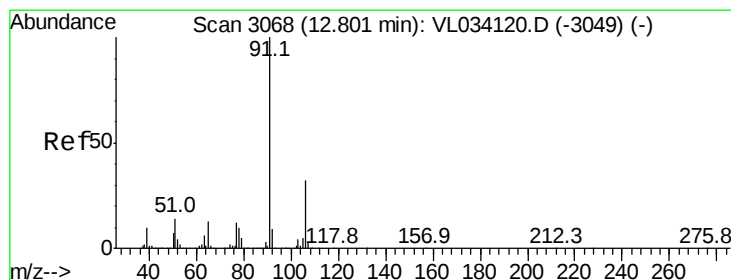
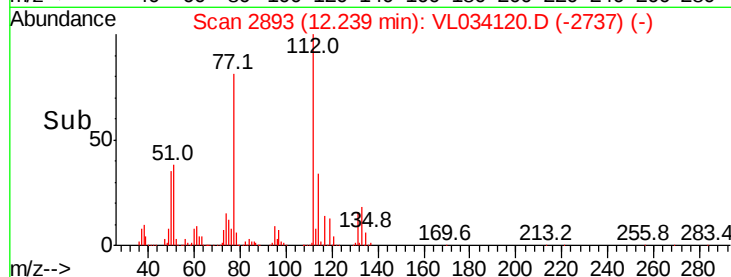
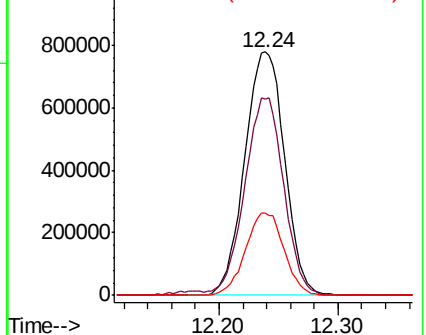
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.372 ppbv

RT: 12.80 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VL034120.D

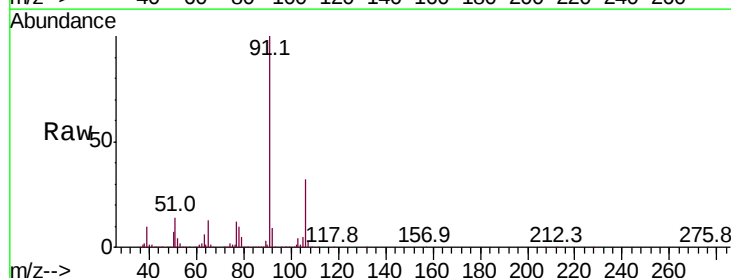
Acq: 5 Sep 2019 2:28

Tgt Ion: 91 Resp: 3458827

Ion Ratio Lower Upper

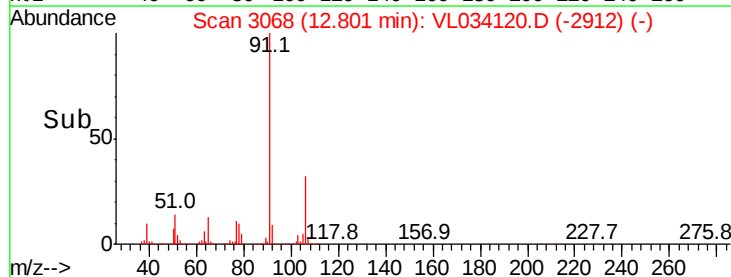
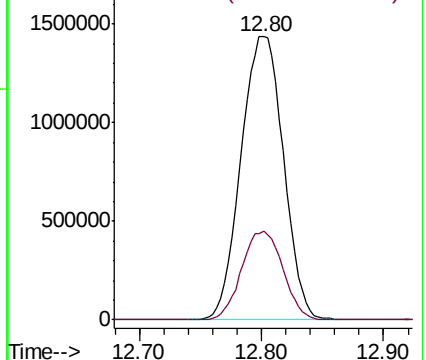
91 100

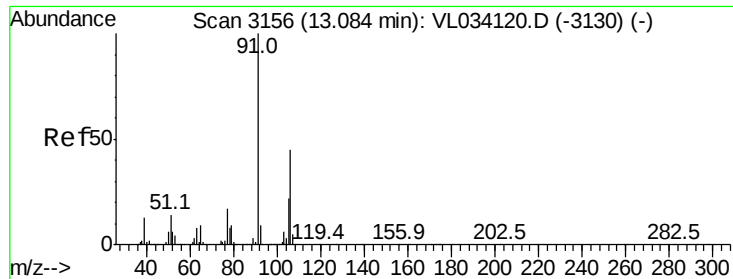
106 31.6 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





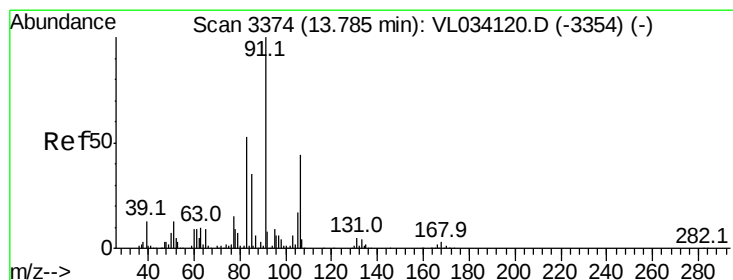
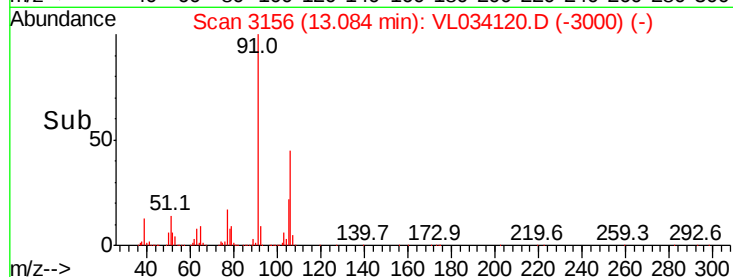
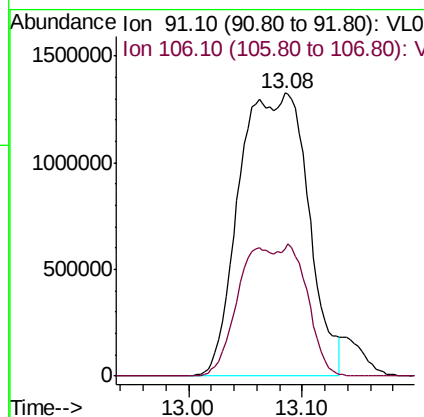
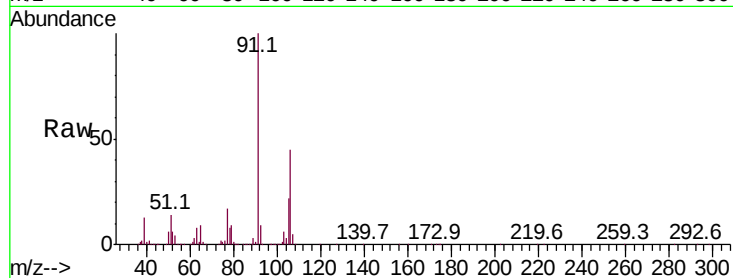
#59
m/p-Xylene
Concen: 16.594 ppbv m
RT: 13.08 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 5584759
Ion Ratio Lower Upper
91 100
106 44.7 35.4 53.2

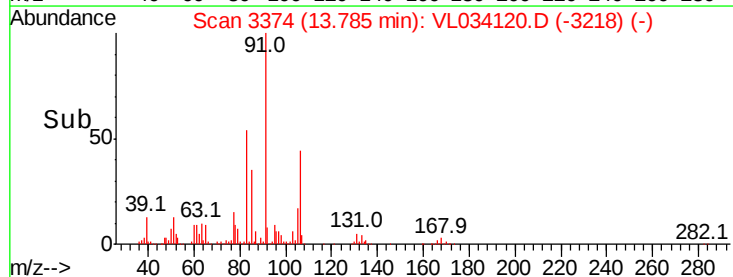
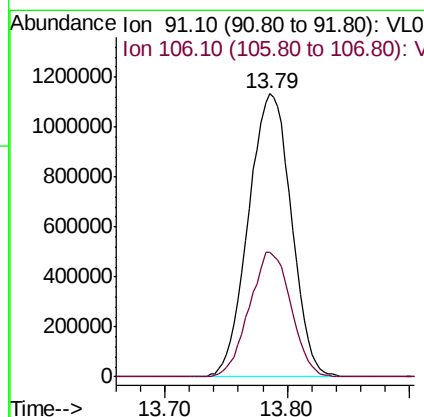
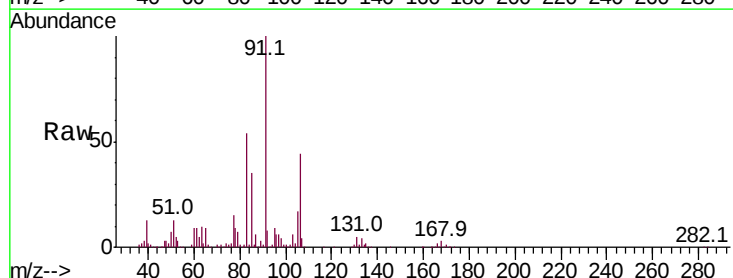
Manual Integrations
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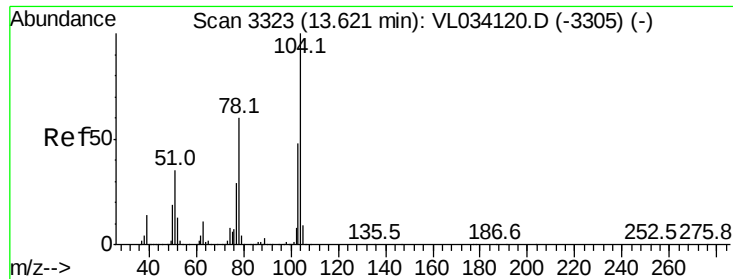
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#60
o-Xylene
Concen: 8.197 ppbv
RT: 13.79 min Scan# 3374
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion: 91 Resp: 2754303
Ion Ratio Lower Upper
91 100
106 42.8 21.4 64.3





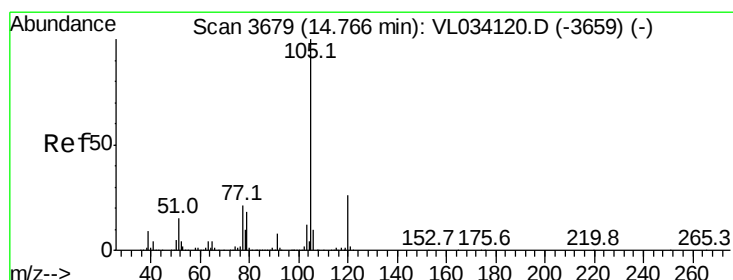
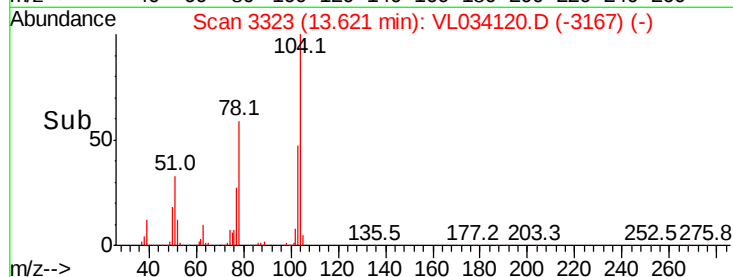
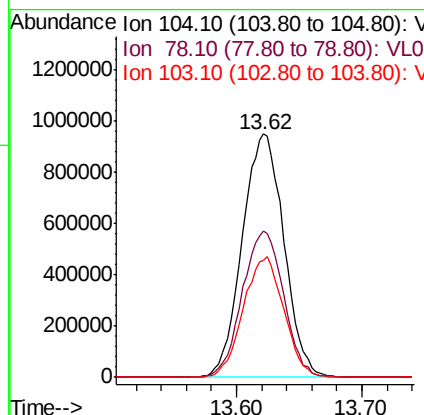
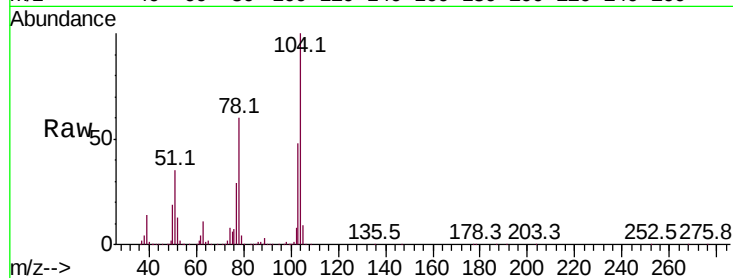
#61
Stvrene
Concen: 8.720 ppbv
RT: 13.62 min Scan# 3323
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.7	47.8	71.6
103	48.4	38.7	58.1

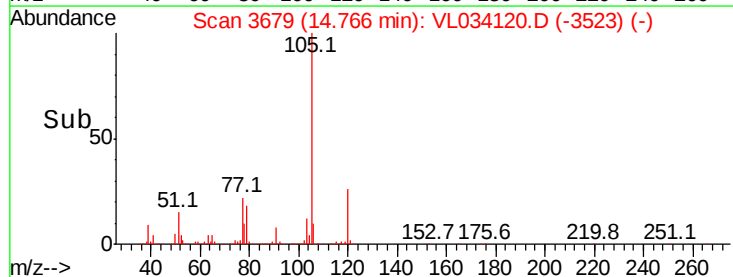
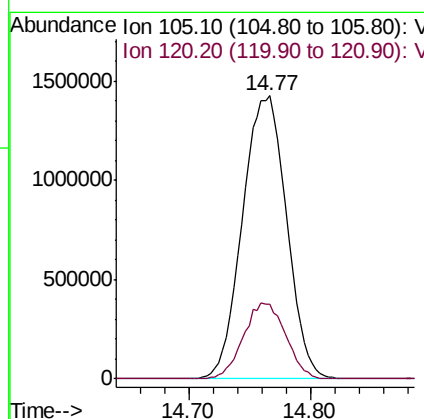
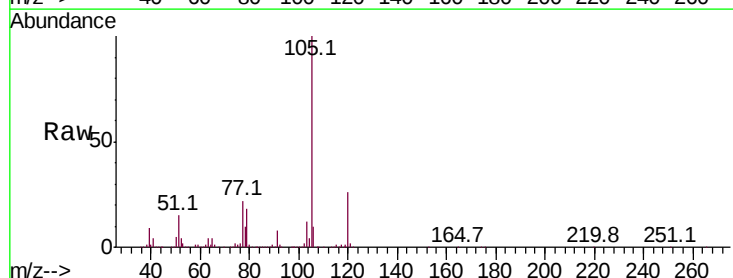
Manual Integrations
APPROVED

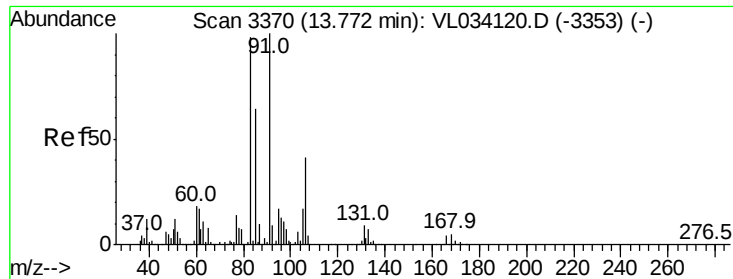
MMDadoda
9/12/2019 5:14:51 AM



#62
Isopropylbenzene
Concen: 8.148 ppbv
RT: 14.77 min Scan# 3679
Delta R.T. 0.00 min
Lab File: VL034120.D
Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 7.186 ppbv

RT: 13.77 min Scan# 3370

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 83 Resp: 1975098

Ion Ratio Lower Upper

83 100

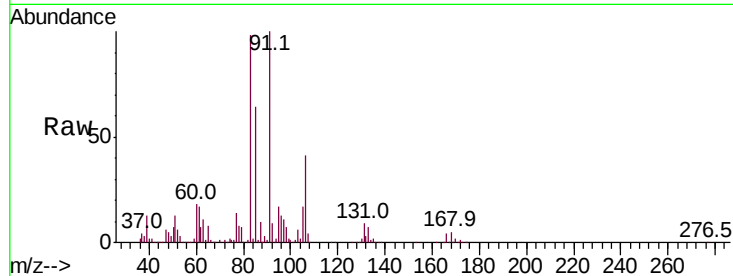
131 8.5 4.3 12.8

85 65.0 32.5 97.5

Manual Integrations
APPROVED

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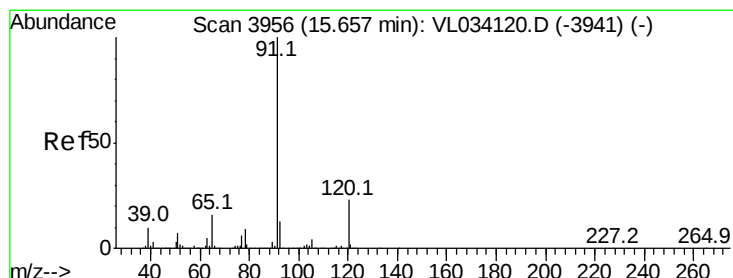
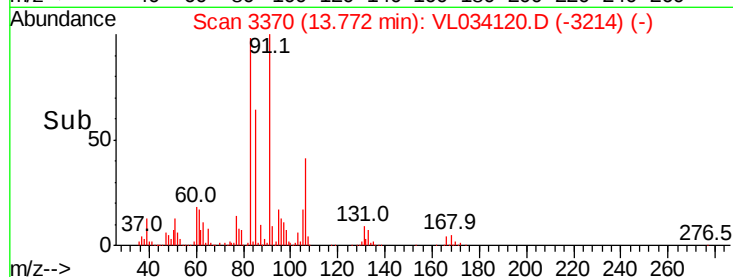
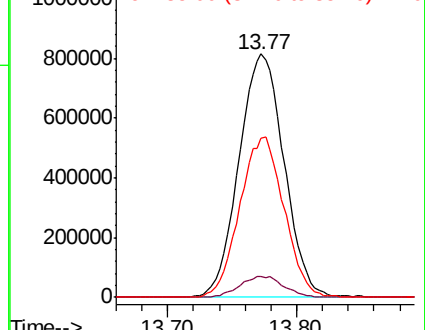
9/12/2019 5:14:51 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.509 ppbv

RT: 15.66 min Scan# 3956

Delta R.T. 0.00 min

Lab File: VL034120.D

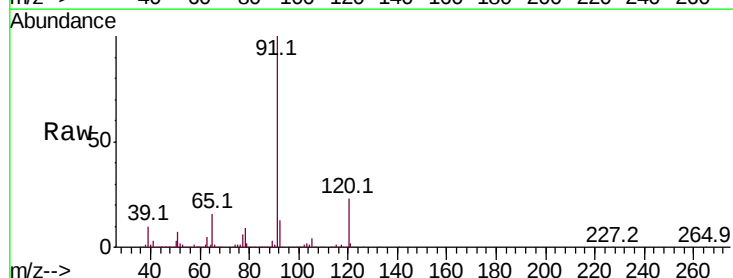
Acq: 5 Sep 2019 2:28

Tgt Ion: 120 Resp: 945437

Ion Ratio Lower Upper

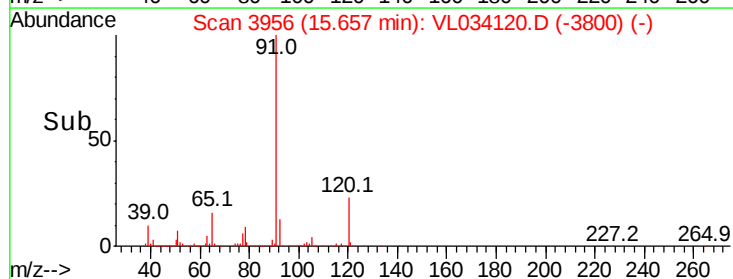
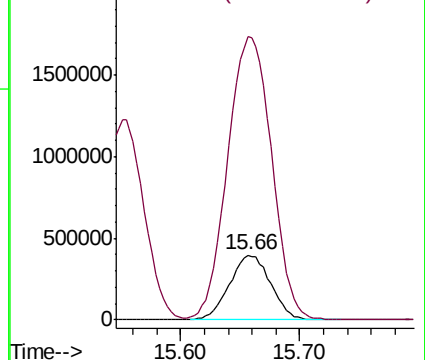
120 100

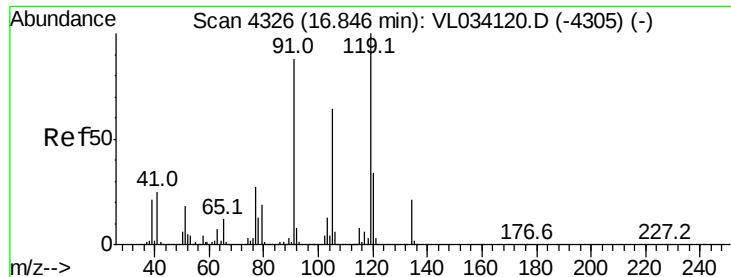
91 471.0 376.8 565.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.950 ppbv

RT: 16.85 min Scan# 4326

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampled :

VSTDICCC010

Tot Ion:119 Resp: 2992726

Ion Ratio Lower Upper

119 100

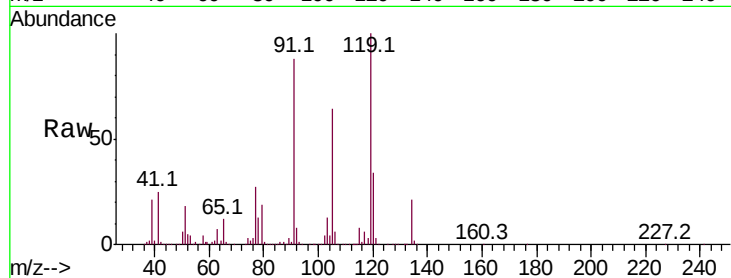
91 91.0 72.8 109.2

134 19.8 15.8 23.8

Manual Integrations
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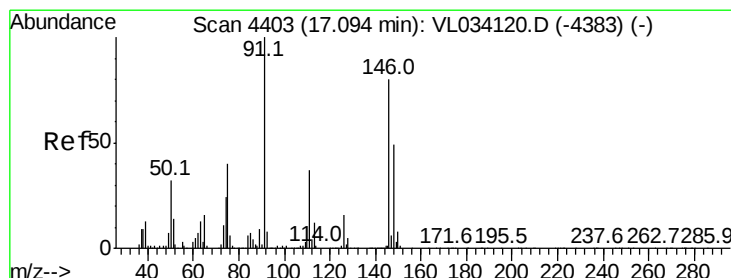
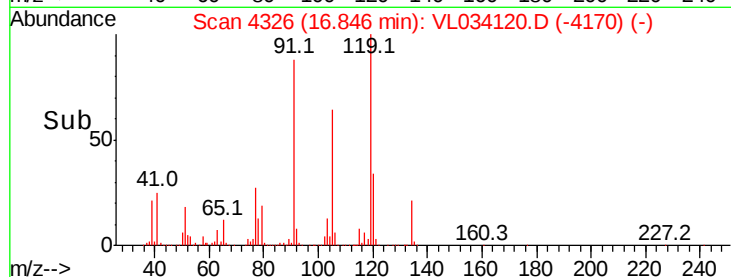
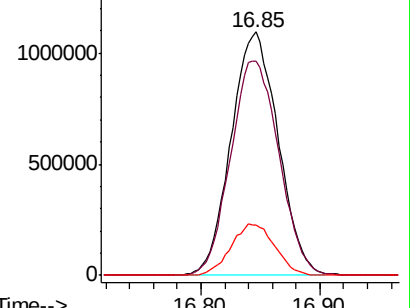
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Abundance Ion 119.20 (118.90 to 119.90): V

1500000 Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.877 ppbv

RT: 17.09 min Scan# 4403

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

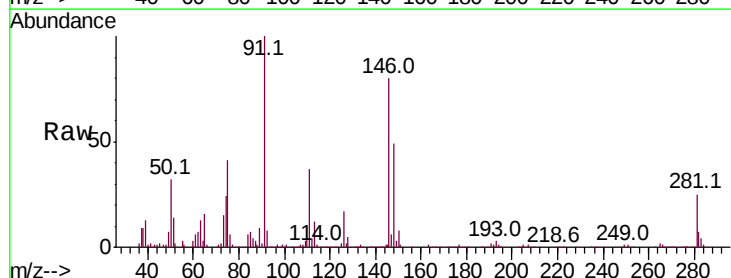
Tgt Ion: 91 Resp: 1647659

Ion Ratio Lower Upper

91 100

126 17.1 13.7 20.5

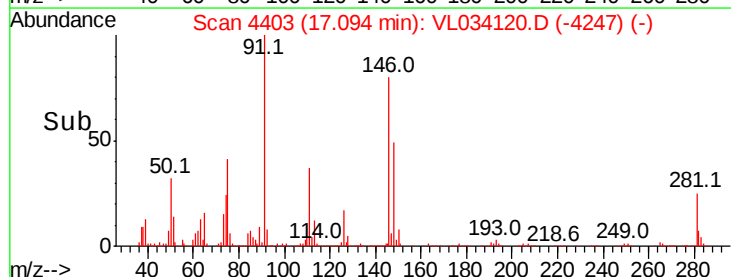
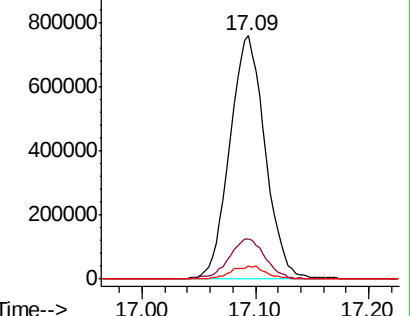
128 5.3 4.2 6.4

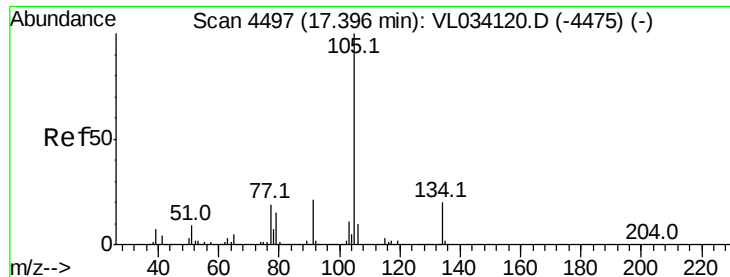


Abundance Ion 91.10 (90.80 to 91.80): VL0

1000000 Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





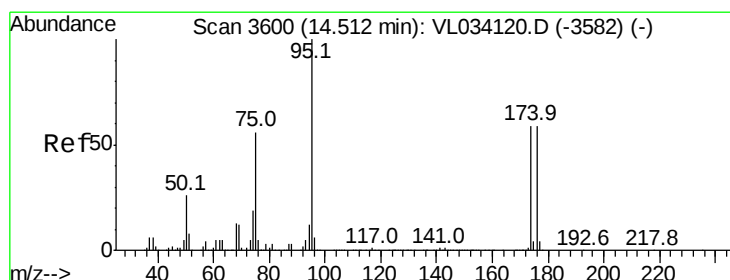
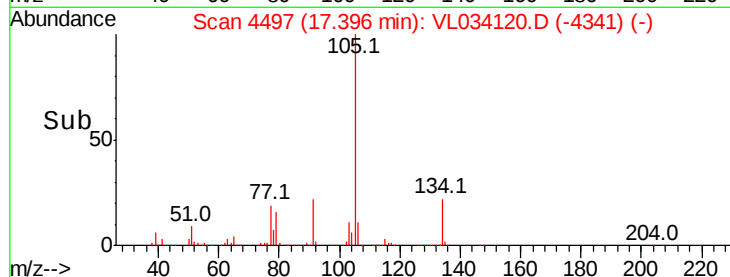
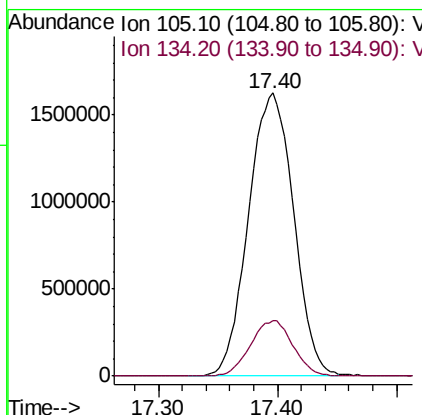
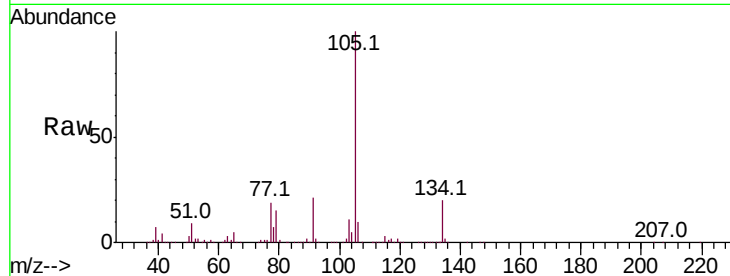
#67
 sec-Butylbenzene
 Concen: 7.877 ppbv
 RT: 17.40 min Scan# 4497
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:105 Resp: 4272367
 Ion Ratio Lower Upper
 105 100
 134 18.7 15.0 22.4

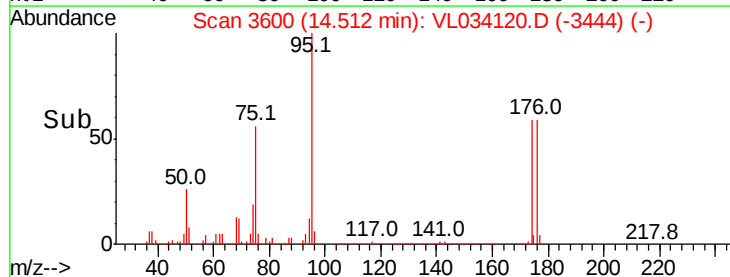
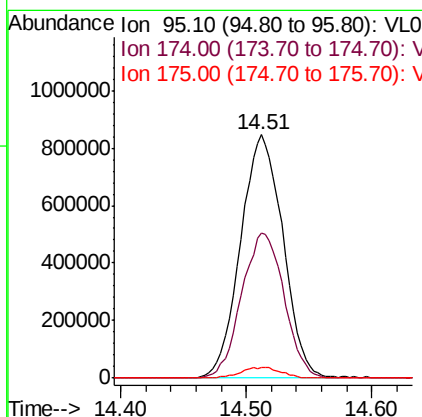
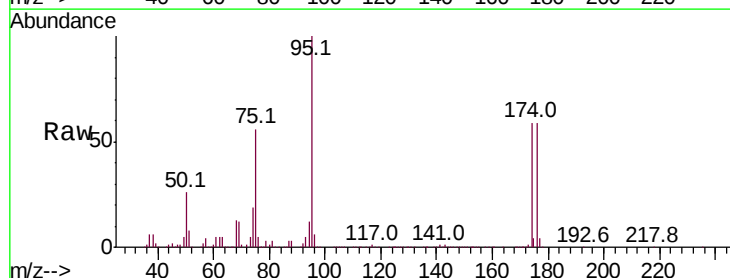
Manual Integrations
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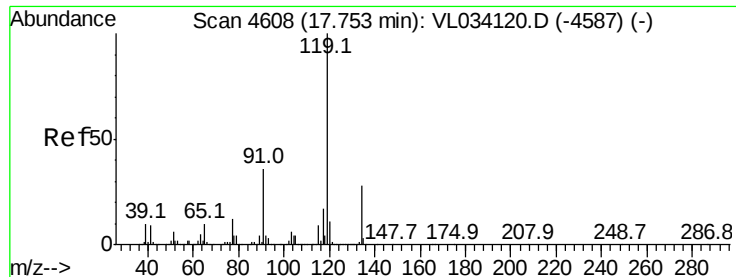
MMDadoda
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.615 ppbv
 RT: 14.51 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion: 95 Resp: 1982503
 Ion Ratio Lower Upper
 95 100
 174 60.1 48.1 72.1
 175 4.4 3.5 5.3





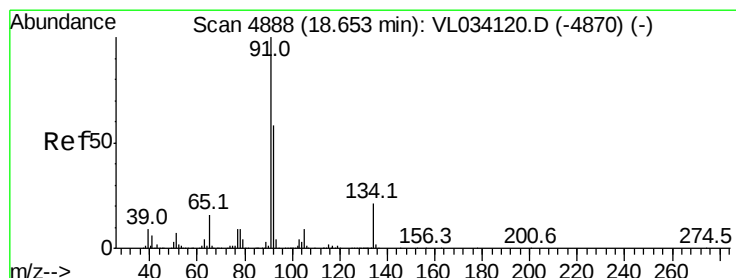
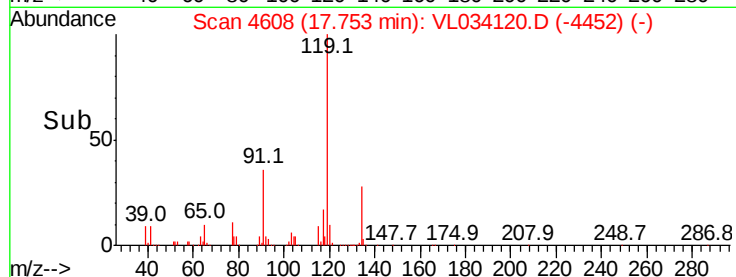
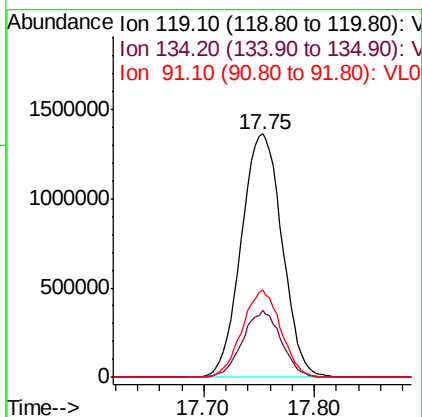
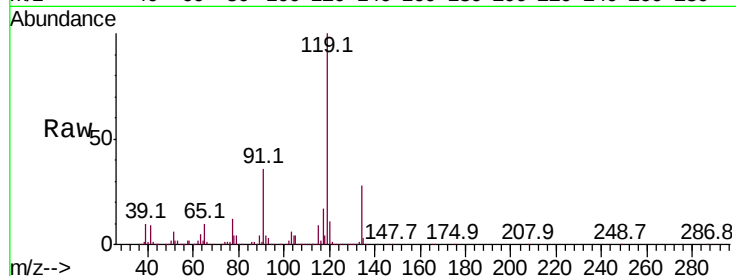
#69
 p-Isopropyltoluene
 Concen: 8.029 ppbv
 RT: 17.75 min Scan# 4608
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.8	31.2
91	34.2	27.2	40.8

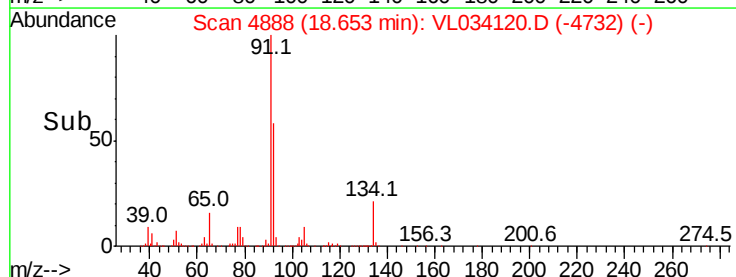
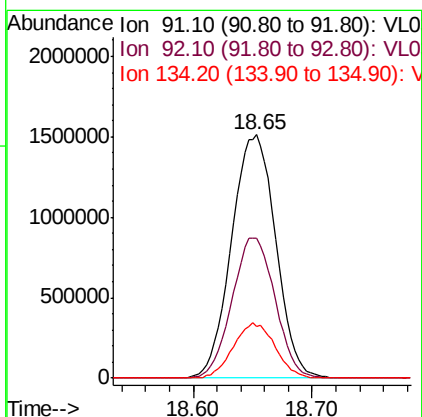
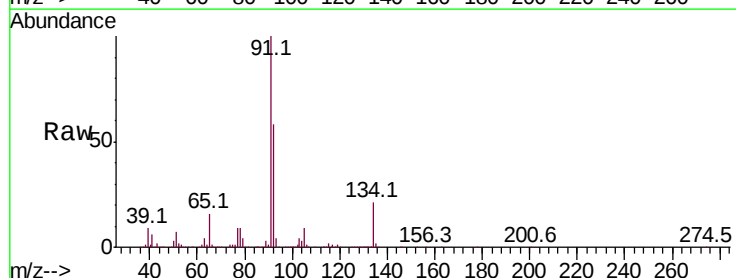
Manual Integrations
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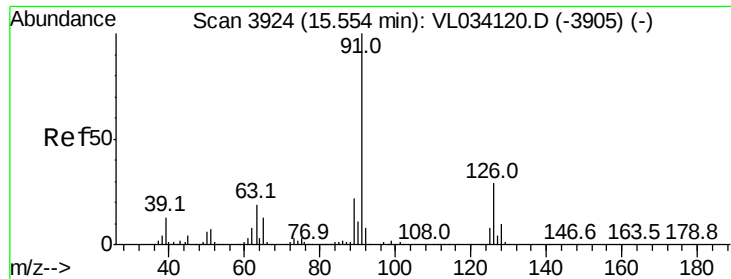
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#70
 n-Butylbenzene
 Concen: 7.824 ppbv
 RT: 18.65 min Scan# 4888
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.5	45.3	67.9
134	21.7	17.4	26.0





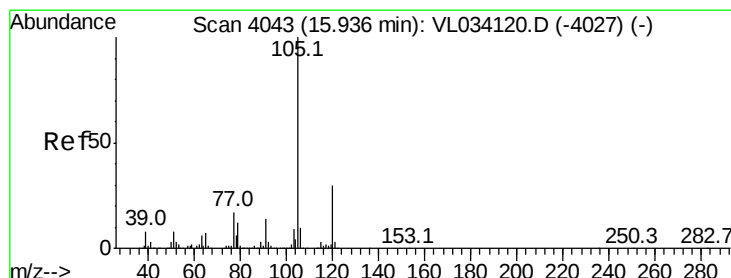
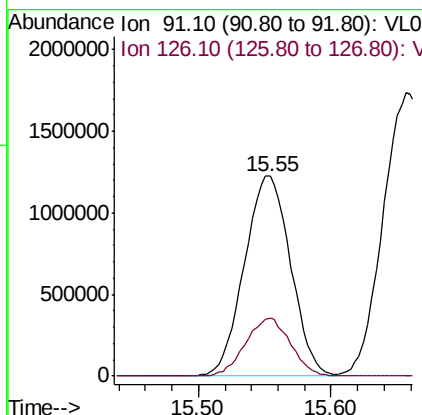
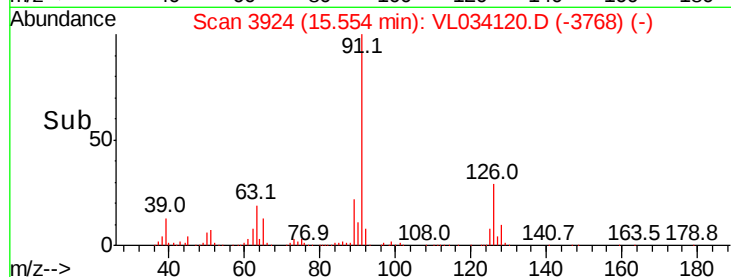
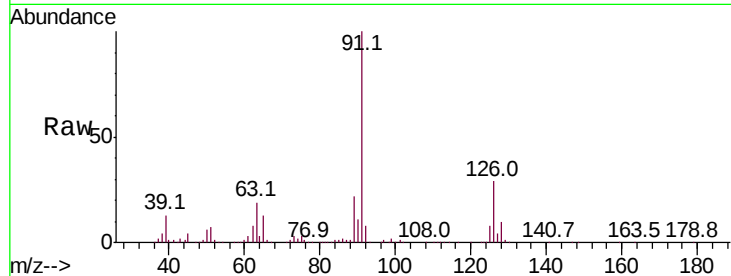
#71
 2-Chlorotoluene
 Concen: 8.311 ppbv
 RT: 15.55 min Scan# 3924
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 91 Resp: 2968382
 Ion Ratio Lower Upper
 91 100
 126 28.4 11.4 45.4

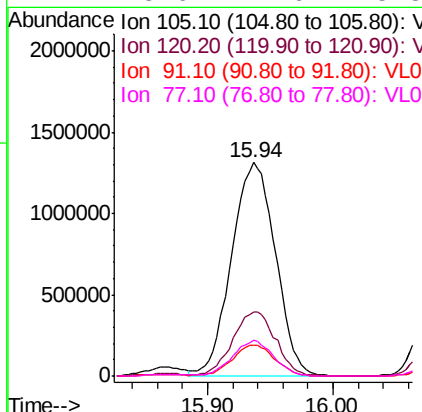
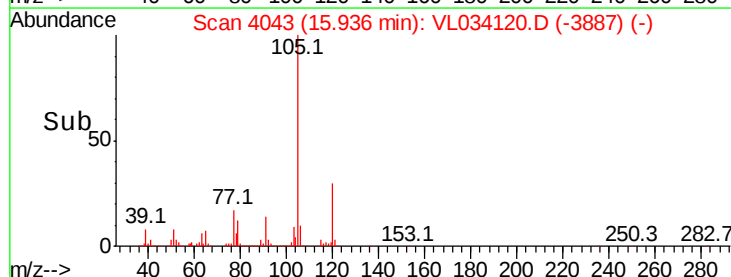
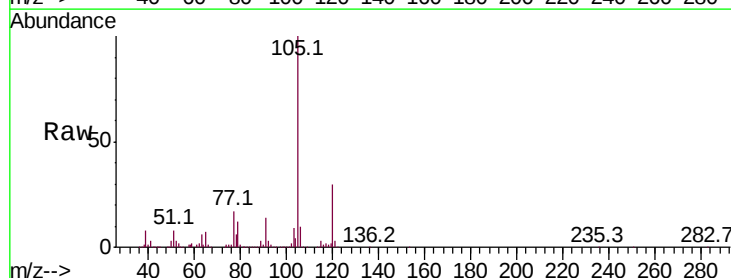
Manual Integrations
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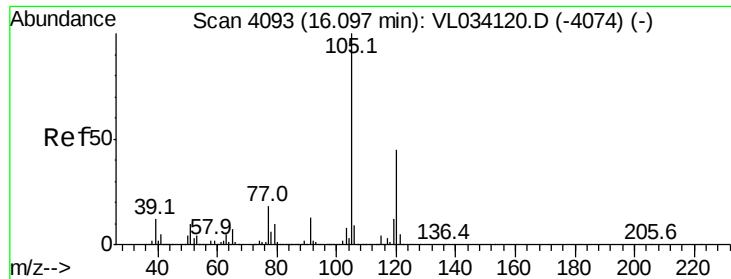
MMDadoda
 9/12/2019 5:14:51 AM



#72
 4-Ethyltoluene
 Concen: 8.385 ppbv
 RT: 15.94 min Scan# 4043
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion: 105 Resp: 3179016
 Ion Ratio Lower Upper
 105 100
 120 29.6 23.8 35.6
 91 14.0 11.4 17.0
 77 15.6 12.6 18.8





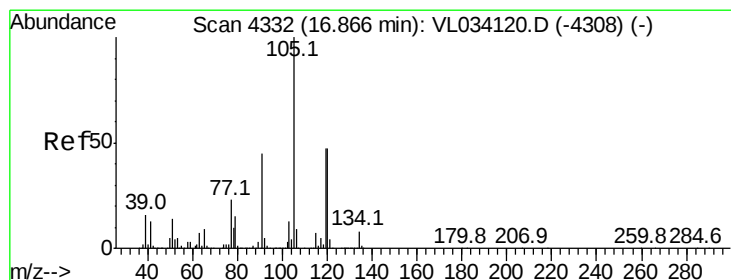
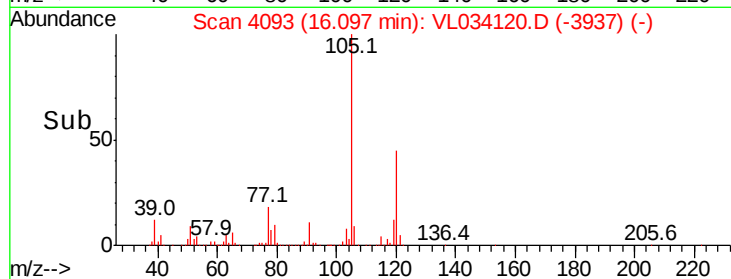
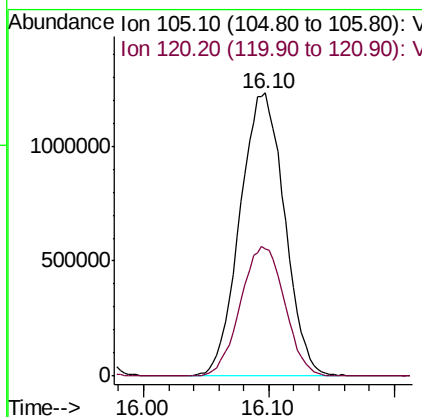
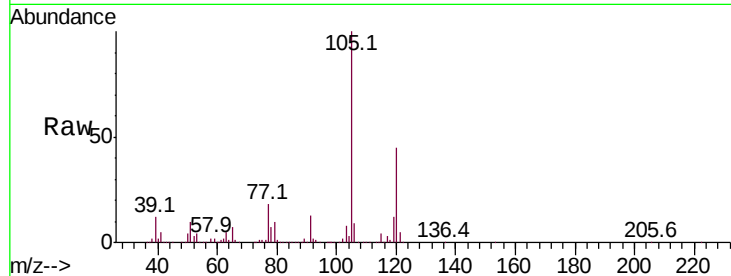
#73
 1,3,5-Trimethylbenzene
 Concen: 8.210 ppbv
 RT: 16.10 min Scan# 4093
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDICCC010

Tot Ion:105 Resp: 3025290
 Ion Ratio Lower Upper
 105 100
 120 44.8 35.8 53.8

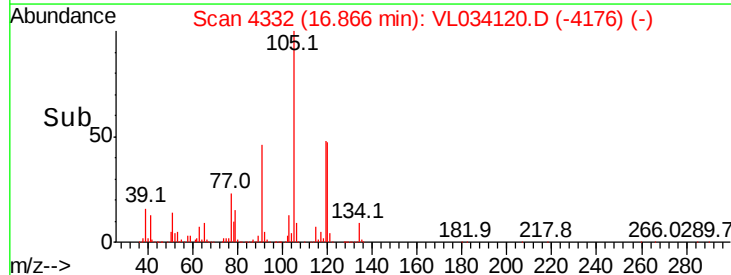
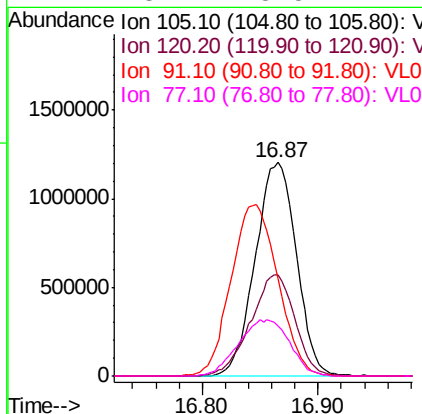
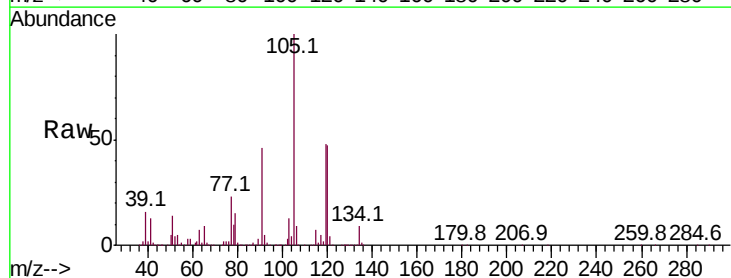
Manual Integrations
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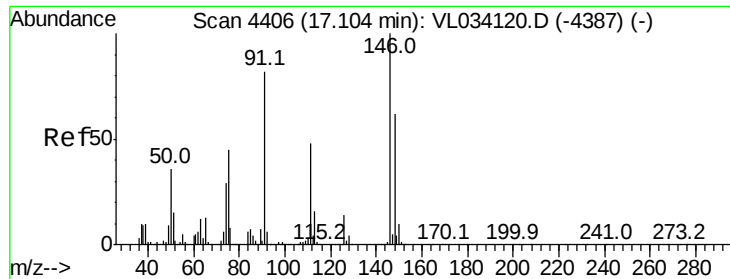
MMDadoda
 9/12/2019 5:14:51 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 7.825 ppbv
 RT: 16.87 min Scan# 4332
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion:105 Resp: 2969176
 Ion Ratio Lower Upper
 105 100
 120 47.1 37.7 56.5
 91 45.2 36.2 54.2
 77 23.1 18.5 27.7





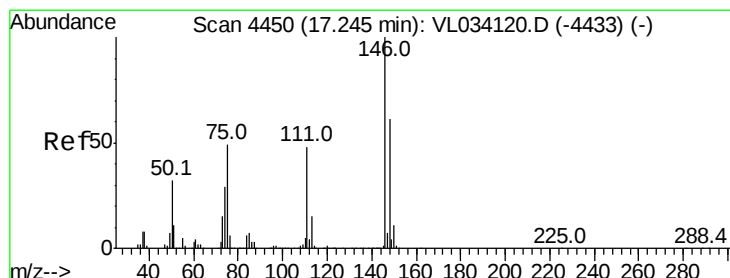
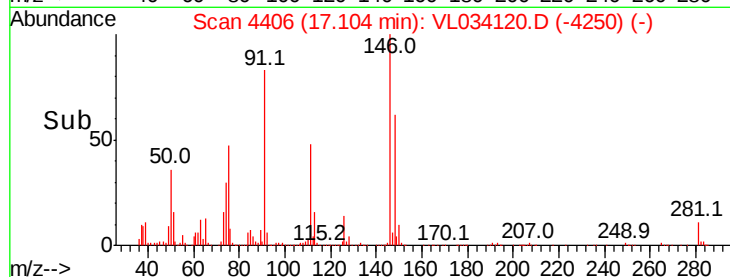
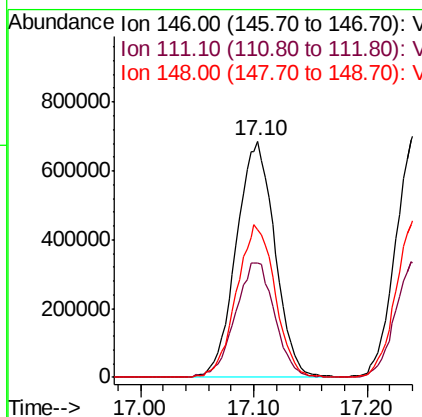
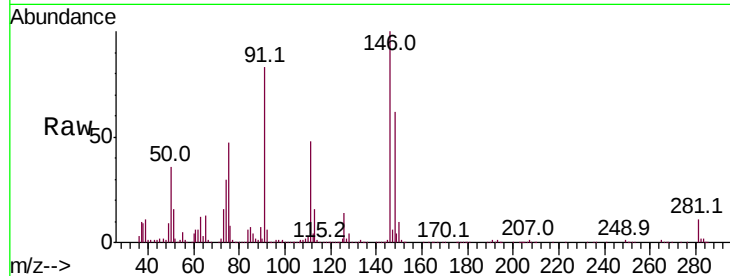
#75
 1,3-Dichlorobenzene
 Concen: 8.063 ppbv
 RT: 17.10 min Scan# 4406
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.9	74.7
148	64.9	32.5	97.5

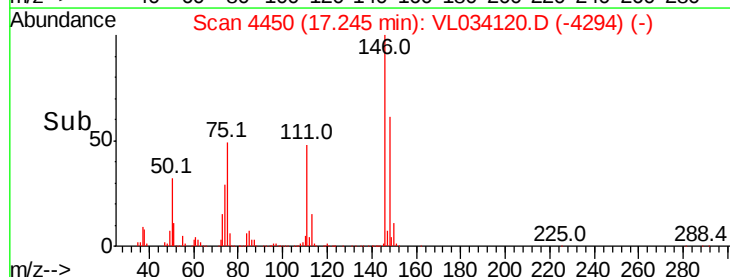
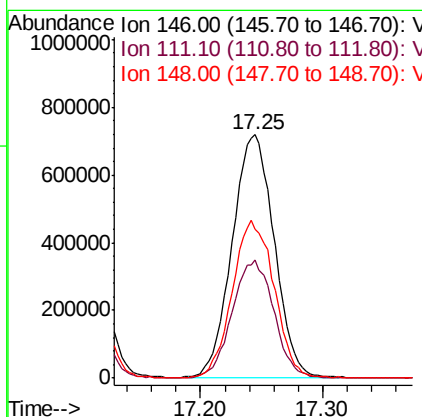
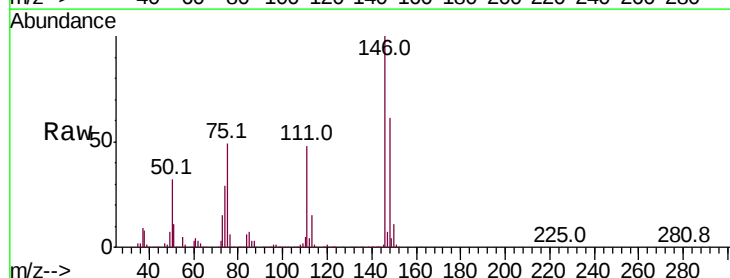
Manual Integrations
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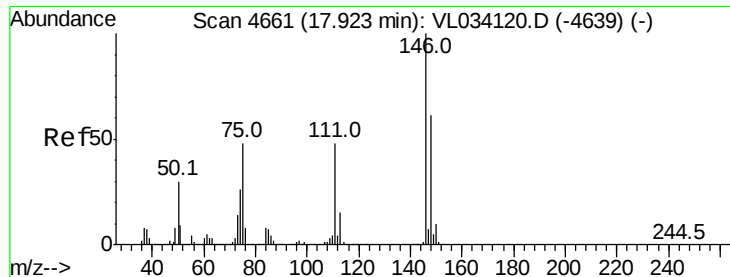
MMDadoda
 9/12/2019 5:14:51 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.031 ppbv
 RT: 17.25 min Scan# 4450
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.6	24.3	72.8
148	65.2	32.6	98.0





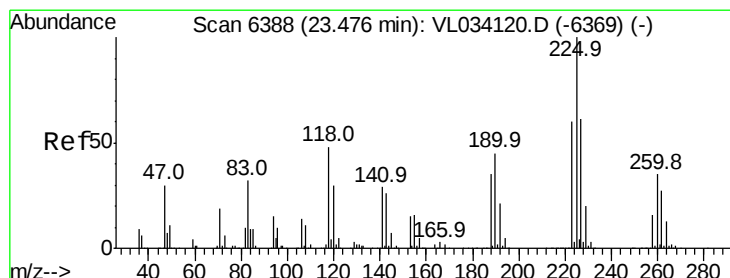
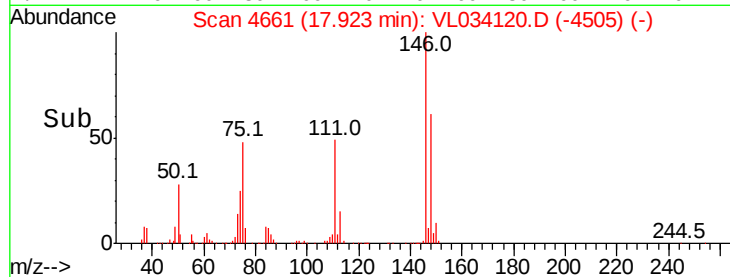
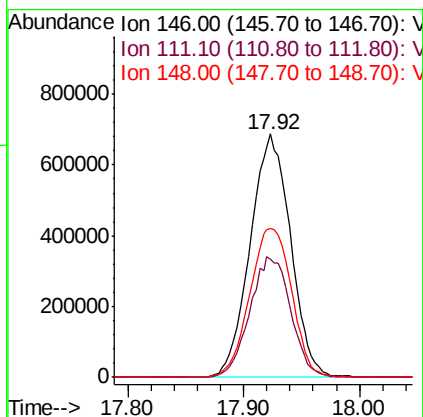
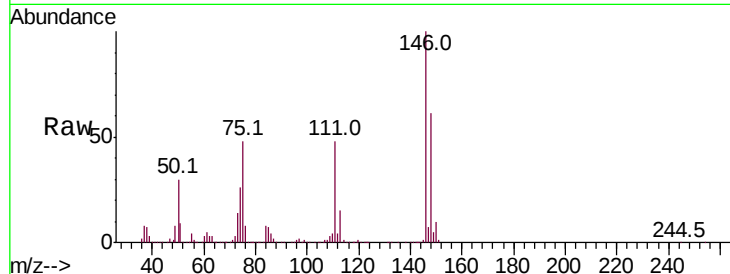
#77
 1,2-Dichlorobenzene
 Concen: 8.069 ppbv
 RT: 17.92 min Scan# 4661
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.3	25.1	75.4
148	64.1	32.0	96.2

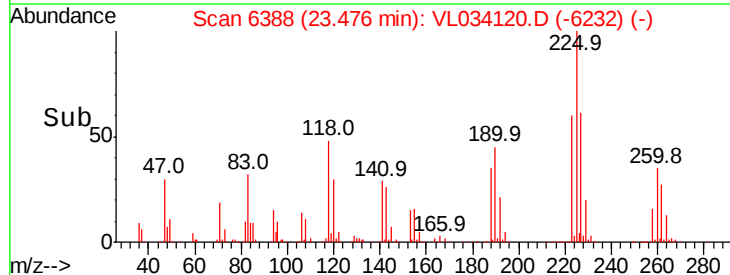
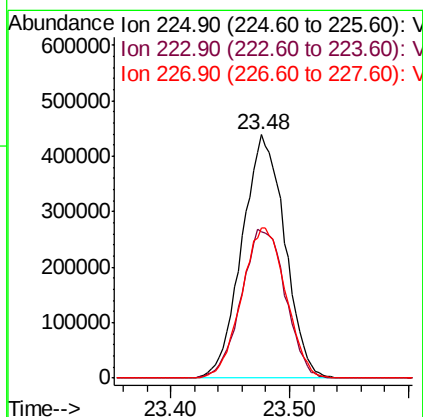
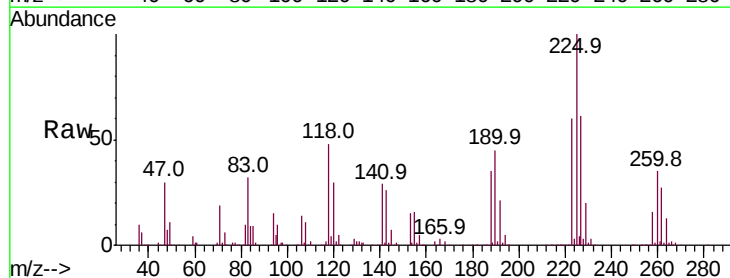
Manual Integrations
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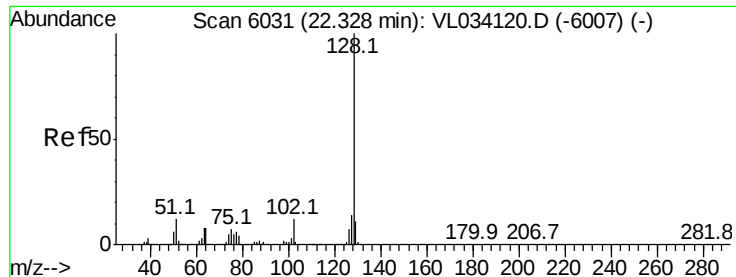
MMDadoda
 9/12/2019 5:14:51 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.792 ppbv
 RT: 23.48 min Scan# 6388
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5
227	63.6	50.9	76.3





#79

Naphthalene

Concen: 8.500 ppbv

RT: 22.33 min Scan# 6031

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 2913019

Ion Ratio Lower Upper

128 100

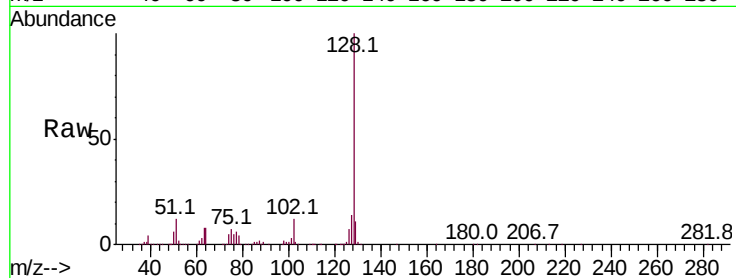
127 13.6 10.9 16.3

129 10.6 8.5 12.7

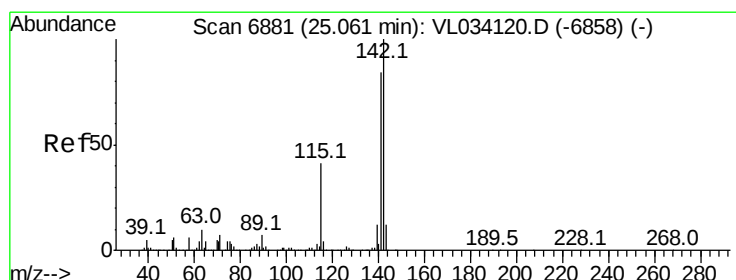
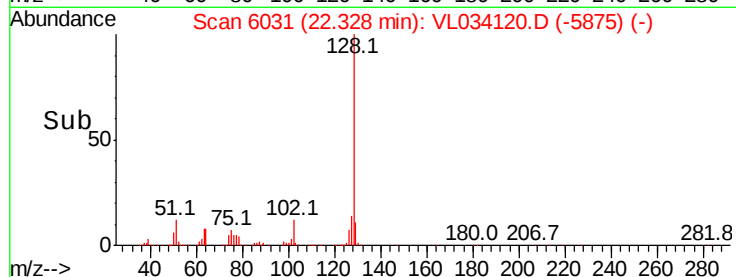
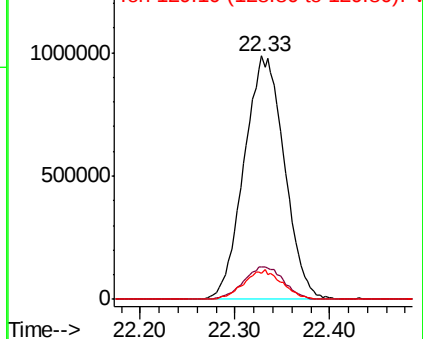
Manual Integrations
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 14.587 ppbv

RT: 25.06 min Scan# 6881

Delta R.T. 0.00 min

Lab File: VL034120.D

Acq: 5 Sep 2019 2:28

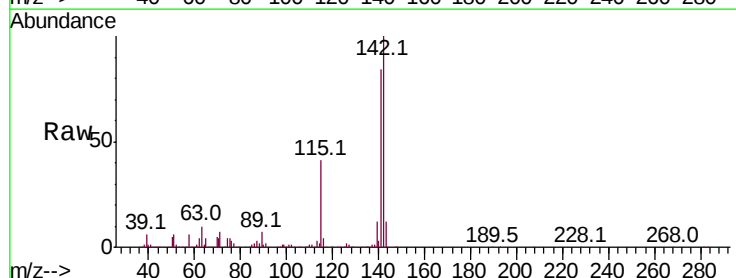
Tgt Ion:142 Resp: 1736816

Ion Ratio Lower Upper

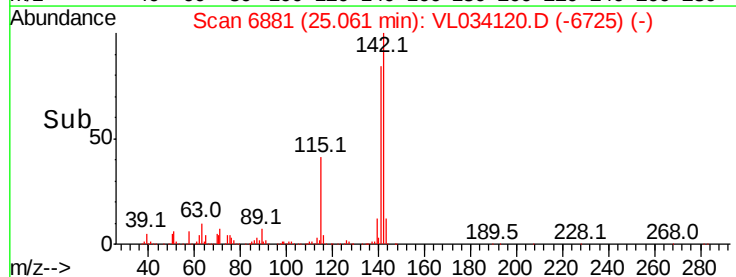
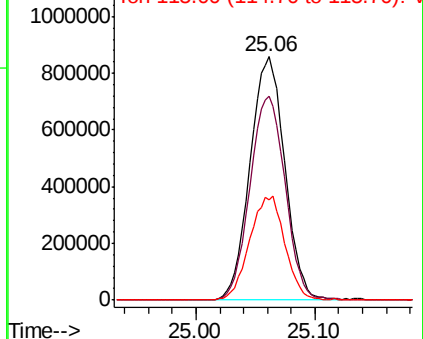
142 100

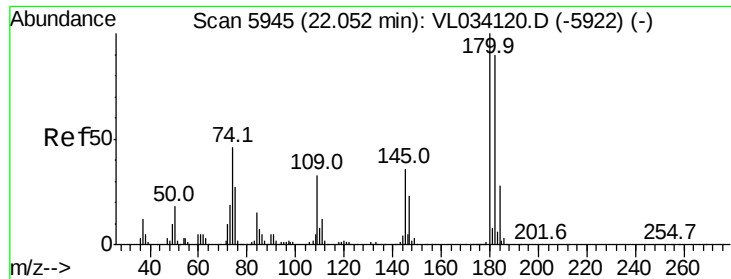
141 85.4 67.6 101.4

115 43.7 34.6 52.0



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: 8.219 ppbv
 RT: 22.05 min Scan# 5945
 Delta R.T. 0.00 min
 Lab File: VL034120.D
 Acq: 5 Sep 2019 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.0	115.4
184	31.9	25.5	38.3

Manual Integrations
 APPROVED

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 9/12/2019 5:14:51 AM

