

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033623.D
 Acq On : 2 May 2019 10:26
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:26 AM

Quant Time: May 03 03:43:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 03:43:47 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1152405	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2880858	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2872244m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2357657	10.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1780095	10.250	ppbv	98
3) Chlorodifluoromethane	3.01	51	1288434	9.351	ppbv	98
4) Chloromethane	3.17	50	720679	9.603	ppbv	99
5) Vinyl Chloride	3.29	62	712101	9.044	ppbv	97
6) Bromomethane	3.51	94	464852	10.032	ppbv	98
7) Chloroethane	3.60	64	270077	10.289	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1787660	9.461	ppbv	99
9) Propene	3.03	41	583594	14.792	ppbv	85
10) Heptane	8.24	43	1474852	10.109	ppbv	99
11) Trichlorofluoromethane	4.00	101	2071788	10.036	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1371030	9.684	ppbv	99
13) Ethanol	3.65	45	139169	7.780	ppbv	97
14) Bromoethene	3.79	108	585586	10.077	ppbv	98
15) Acetone	3.90	43	1316365	9.383	ppbv	100
16) 1,3-Butadiene	3.36	39	630785	9.990	ppbv	100
17) tert-Butyl alcohol	4.35	59	1353296	11.172	ppbv	100
18) 1,1-Dichloroethene	4.35	96	627171	10.194	ppbv	95
19) Isopropyl Alcohol	4.02	45	1080306	11.219	ppbv	# 98
20) Methylene Chloride	4.41	84	520252	9.515	ppbv	96
21) Allyl Chloride	4.47	41	933257	10.574	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	670289	11.124	ppbv	98
23) Vinyl Acetate	5.15	43	2208636	10.586	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1512682	9.739	ppbv	98
25) Ethyl Acetate	5.77	43	2532842	9.512	ppbv	99
26) Hexane	5.78	57	1118231	9.973	ppbv	97
27) Carbon Disulfide	4.62	76	1544599	11.375	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	2029379	10.733	ppbv	99
29) Chloroform	5.85	83	1898924	9.241	ppbv	98
30) Cyclohexane	7.24	84	986483	10.393	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1165672	10.301	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	1938504	9.013	ppbv	99
34) 2-Butanone	5.33	43	1719187	9.721	ppbv	100
35) Carbon Tetrachloride	7.13	117	2069758	9.069	ppbv	99
36) Benzene	7.00	78	2480607	10.106	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1447828	8.877	ppbv	99
38) Trichloroethene	7.96	130	955733	9.763	ppbv	98
39) 1,2-Dichloropropane	7.73	63	910815	9.840	ppbv	98
40) 1,4-Dioxane	7.95	88	402400	10.699	ppbv	# 1
41) Tetrahydrofuran	6.14	42	974729	10.320	ppbv	100
42) Bromodichloromethane	7.91	83	2108138	9.551	ppbv	97
43) Methyl Methacrylate	8.13	69	957644	10.303	ppbv	99

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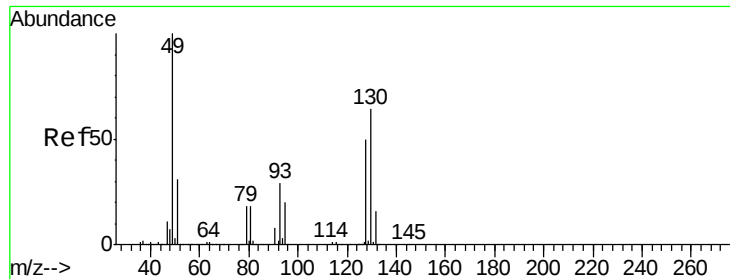
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3961816	9.261	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1337275	10.832	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1502131	10.787	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1002272	8.302	ppbv	97
48) Dibromochloromethane	10.45	129	1810791	8.869	ppbv	99
49) Bromoform	13.20	173	1601865	10.241	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2544612	9.182	ppbv	99
51) 2-Hexanone	10.26	43	2138805	8.790	ppbv #	99
52) Tetrachloroethene	11.37	164	943652	9.999	ppbv	99
53) Toluene	9.94	91	2843732	9.180	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1600484	9.639	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1212275	9.798	ppbv #	55
57) Chlorobenzene	12.30	112	2169562	9.842	ppbv	99
58) Ethyl Benzene	12.86	91	3877429	11.724	ppbv	100
59) m/p-Xylene	13.15	91	6440361m	22.635	ppbv	
60) o-Xylene	13.85	91	3172349	11.037	ppbv	100
61) Styrene	13.68	104	2444842	12.445	ppbv	99
62) Isopropylbenzene	14.82	105	4292262	11.175	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2124251	9.467	ppbv	99
64) n-propylbenzene	15.72	120	1090916	10.950	ppbv	98
65) tert-Butylbenzene	16.91	119	3758653	10.464	ppbv	99
66) Benzyl Chloride	17.15	91	2062237	12.660	ppbv	99
67) sec-Butylbenzene	17.45	105	5275277	10.457	ppbv	100
69) p-Isopropyltoluene	17.81	119	4420979	10.534	ppbv	99
70) n-Butylbenzene	18.71	91	4569412	10.004	ppbv	100
71) 2-Chlorotoluene	15.61	91	3139950	10.930	ppbv	99
72) 4-Ethyltoluene	16.00	105	3672122	11.217	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3466975	10.769	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	3613214	10.062	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	2135185	9.552	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2145652	10.067	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2062348	9.918	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1838903	11.566	ppbv	99
79) Naphthalene	22.41	128	4255353	12.850	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	2132913	14.857	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2170855	11.304	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.01 min

Lab File: VL033623.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1152405

Ion Ratio Lower Upper

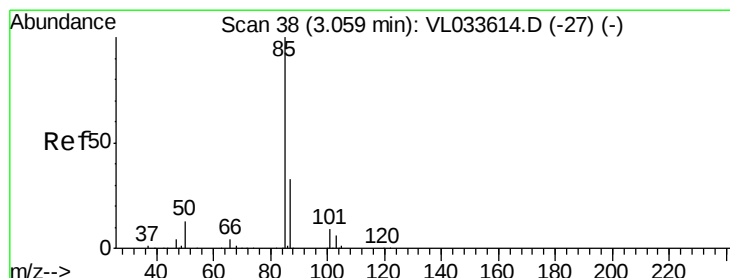
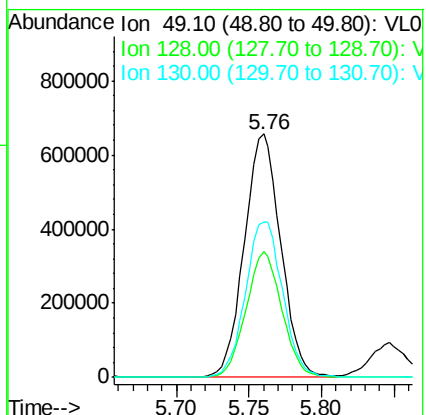
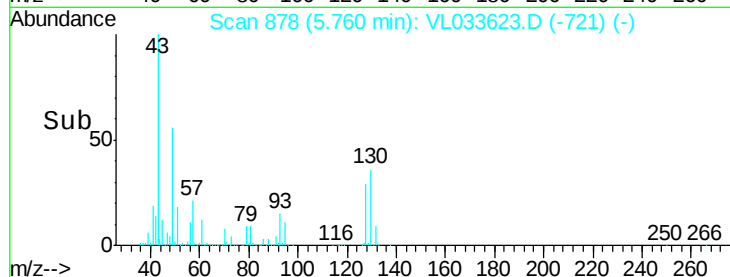
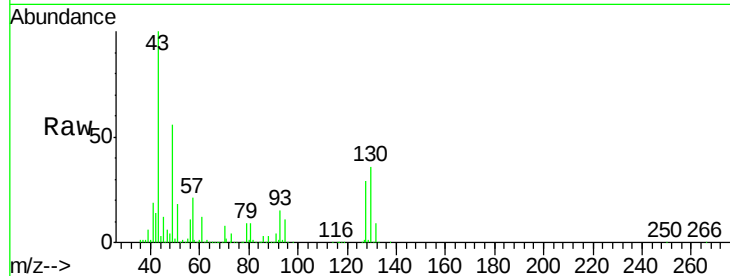
49 100

128 50.9 25.0 75.0

130 65.3 31.9 95.9

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#2

Dichlorodifluoromethane

Concen: 10.250 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.02 min

Lab File: VL033623.D

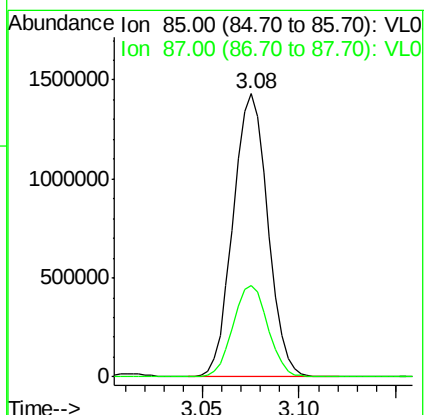
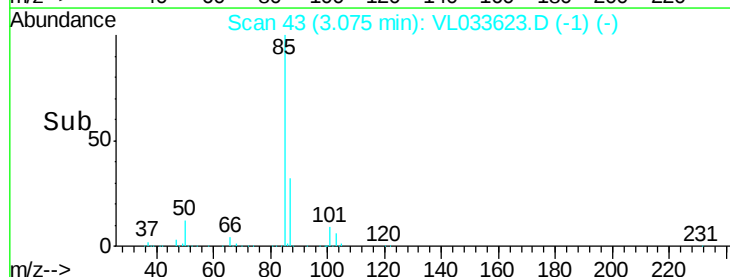
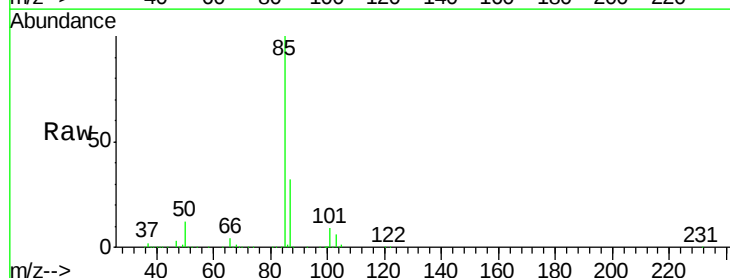
Acq: 2 May 2019 10:26

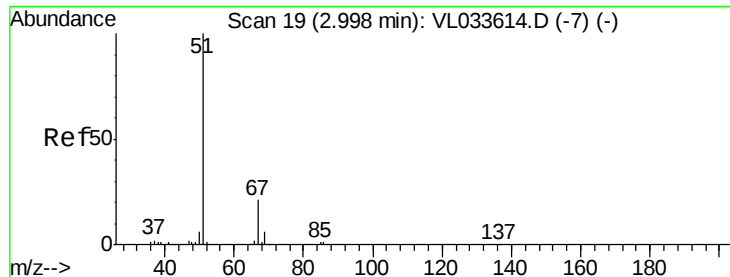
Tgt Ion: 85 Resp: 1780095

Ion Ratio Lower Upper

85 100

87 32.1 26.8 40.2





#3

Chlorodifluoromethane

Concen: 9.351 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.02 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1288434

Ion Ratio Lower Upper

51 100

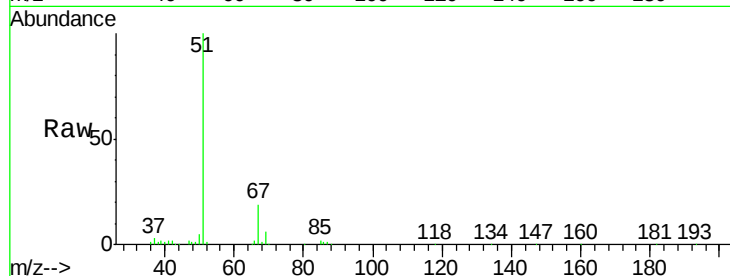
67 18.7 15.6 23.4

Manual Integrations

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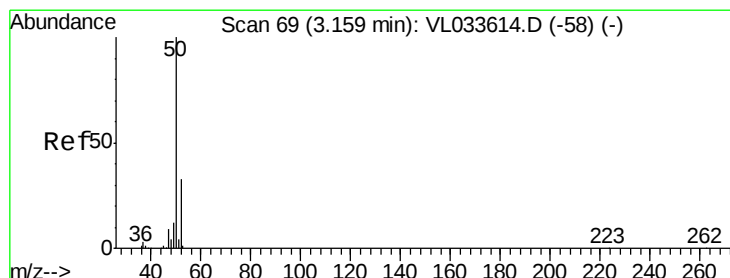
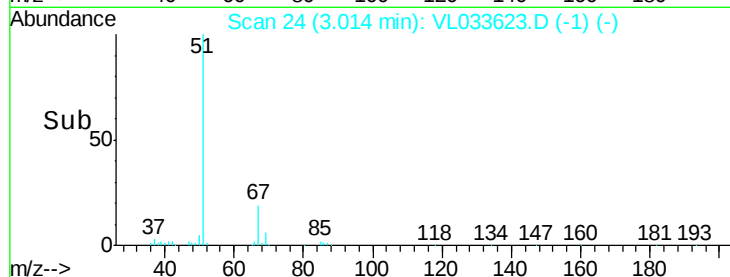
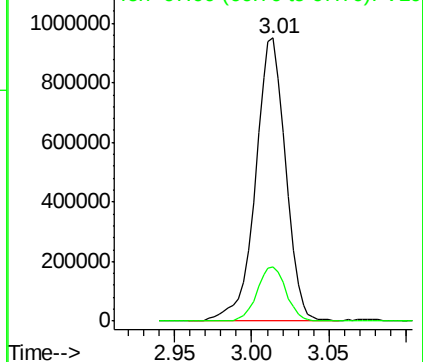
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.603 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL033623.D

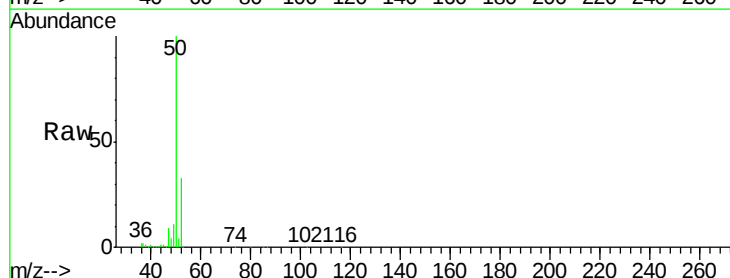
Acq: 2 May 2019 10:26

Tgt Ion: 50 Resp: 720679

Ion Ratio Lower Upper

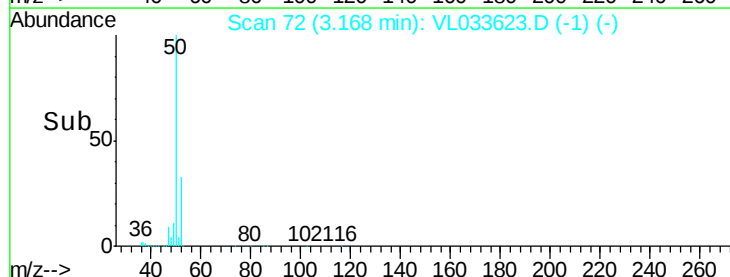
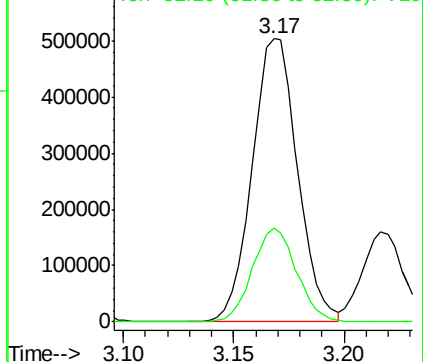
50 100

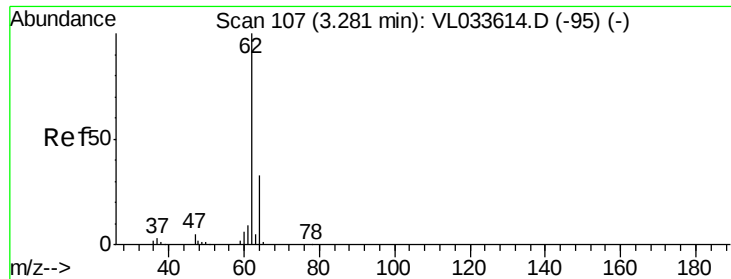
52 33.1 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.044 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 712101

Ion Ratio Lower Upper

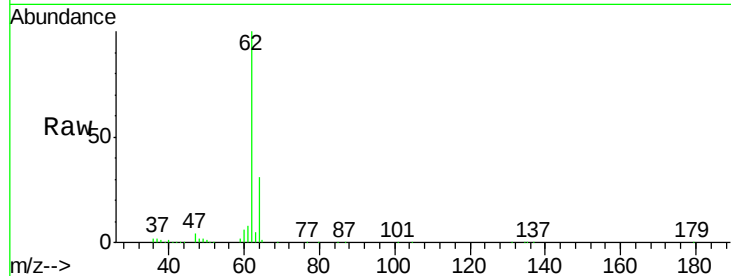
62 100

64 31.2 26.2 39.4

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

600000

500000

400000

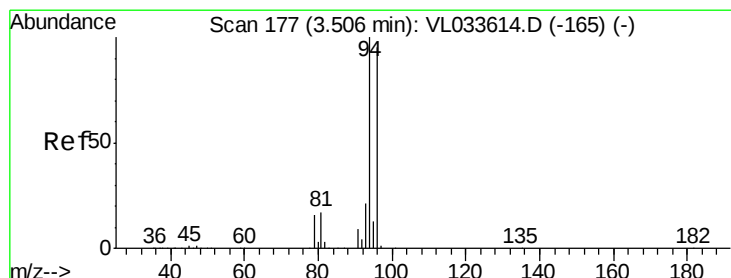
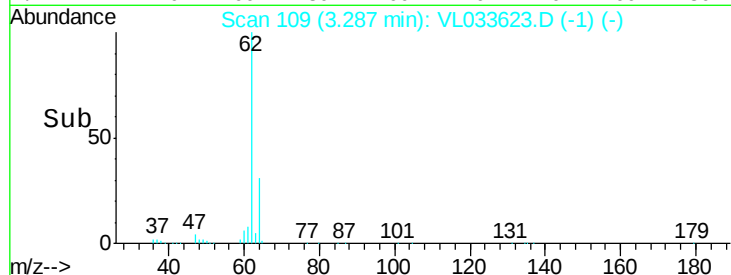
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200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.032 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.01 min

Lab File: VL033623.D

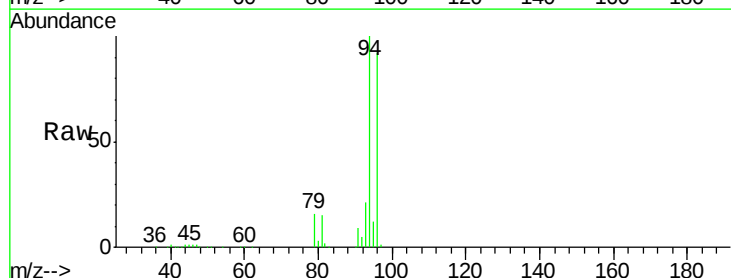
Acq: 2 May 2019 10:26

Tgt Ion: 94 Resp: 464852

Ion Ratio Lower Upper

94 100

96 92.4 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.51

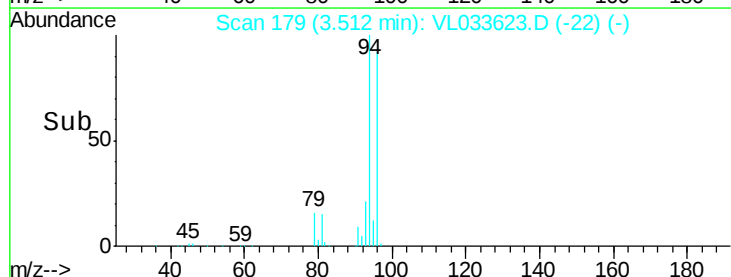
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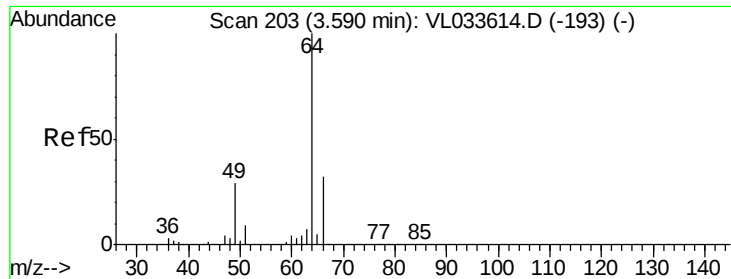
200000

100000

0

Time-->





#7

Chloroethane

Concen: 10.289 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 270077

Ion Ratio Lower Upper

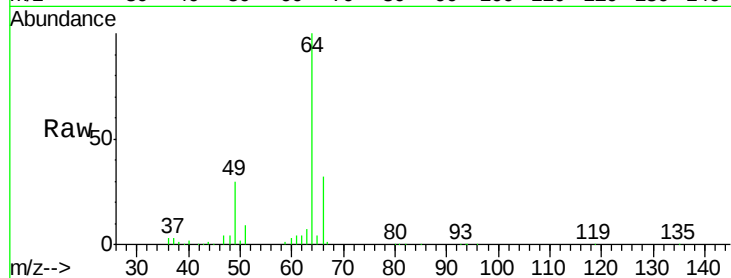
64 100

66 32.3 25.4 38.2

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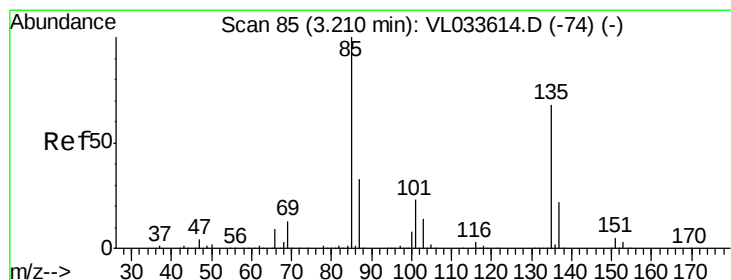
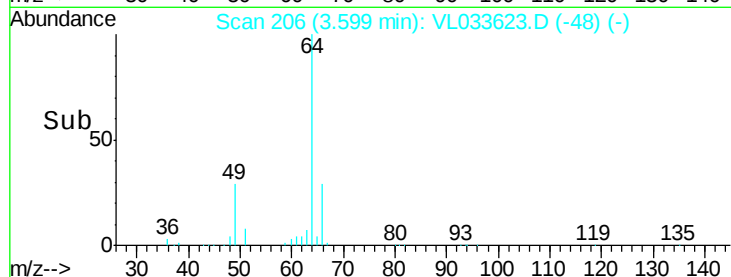
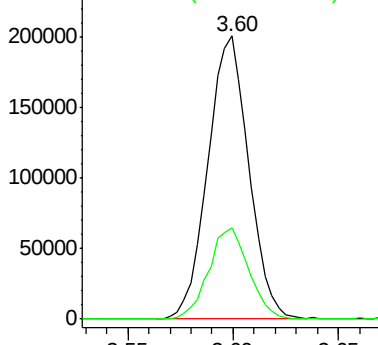
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.461 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.01 min

Lab File: VL033623.D

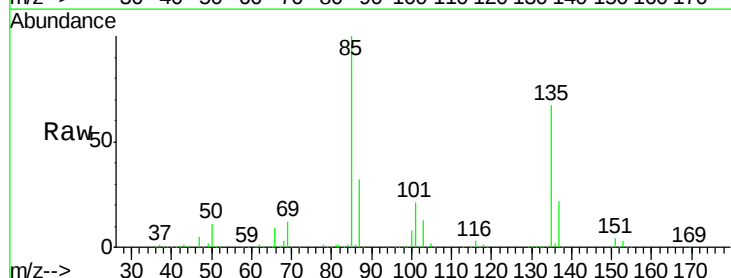
Acq: 2 May 2019 10:26

Tgt Ion: 85 Resp: 1787660

Ion Ratio Lower Upper

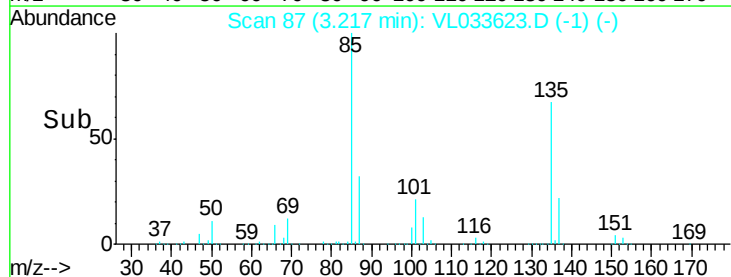
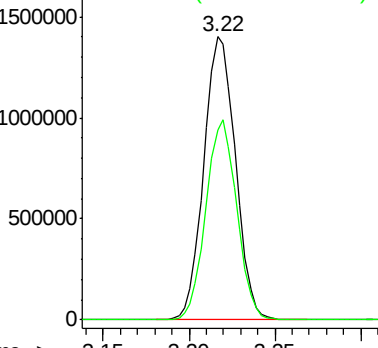
85 100

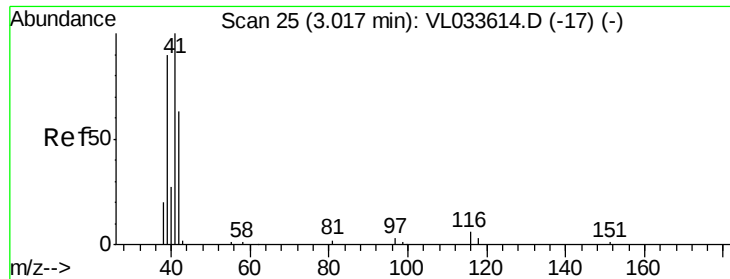
135 69.4 55.0 82.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 14.792 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.02 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 583594

Ion Ratio Lower Upper

41 100

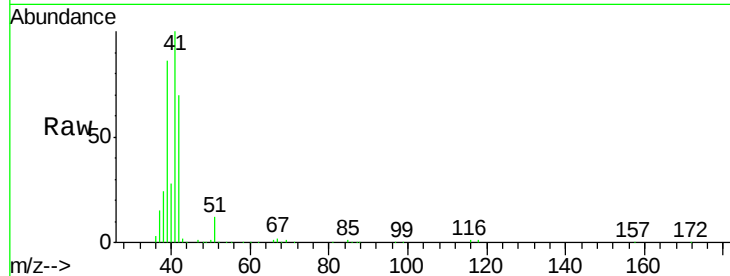
42 68.9 66.0 99.0

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.03

400000

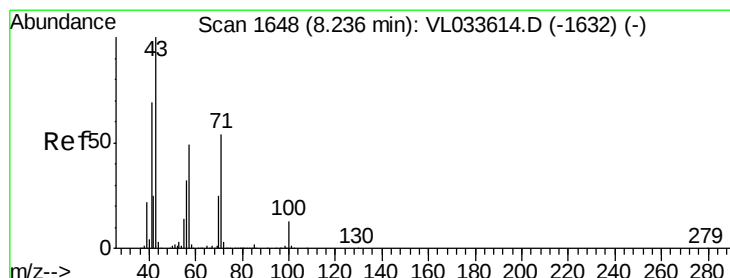
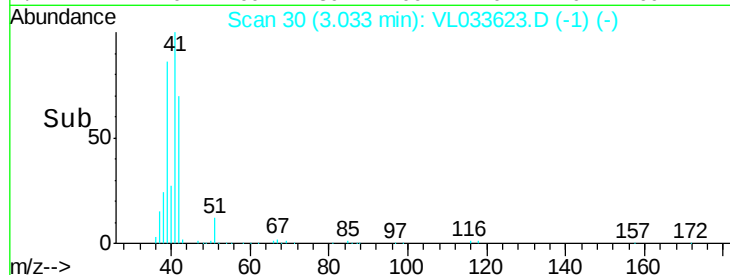
300000

200000

100000

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Time-->



#10

Heptane

Concen: 10.109 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.01 min

Lab File: VL033623.D

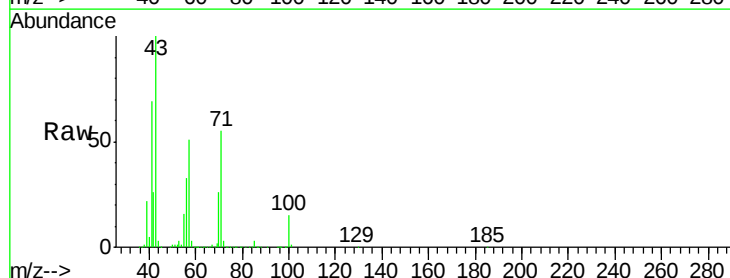
Acq: 2 May 2019 10:26

Tgt Ion: 43 Resp: 1474852

Ion Ratio Lower Upper

43 100

57 50.9 40.3 60.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.24

800000

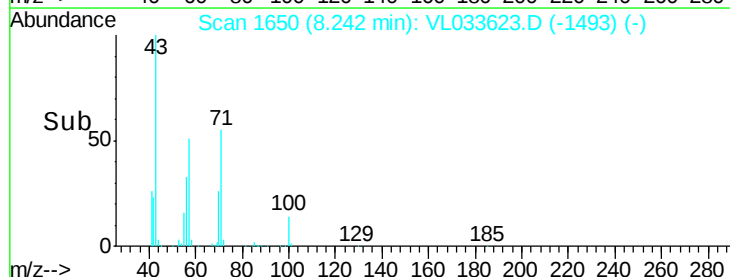
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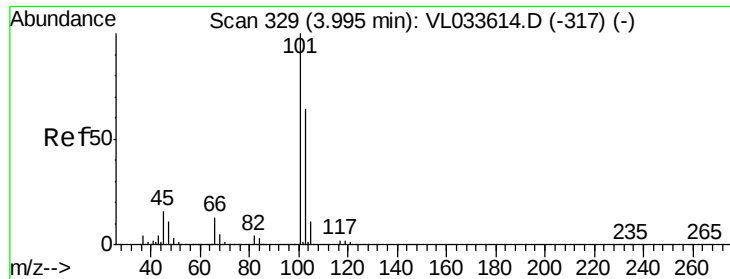
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200000

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Time-->





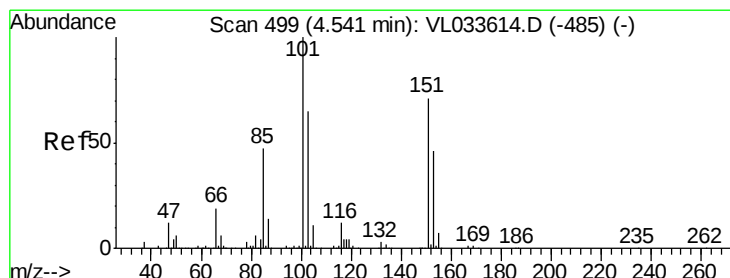
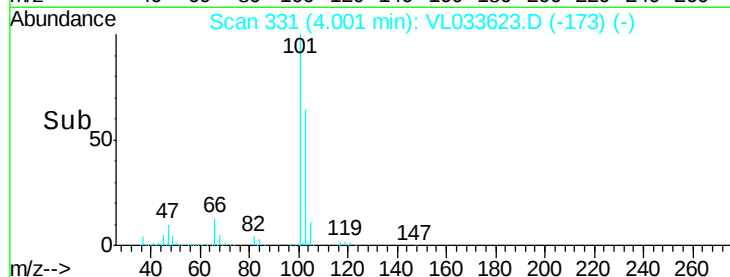
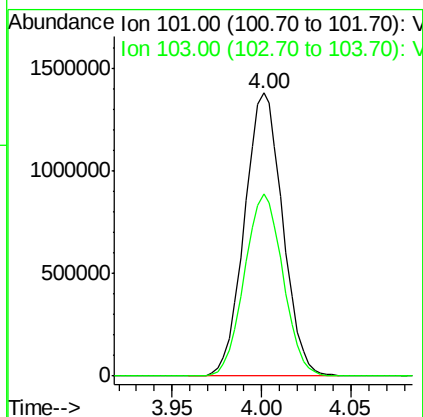
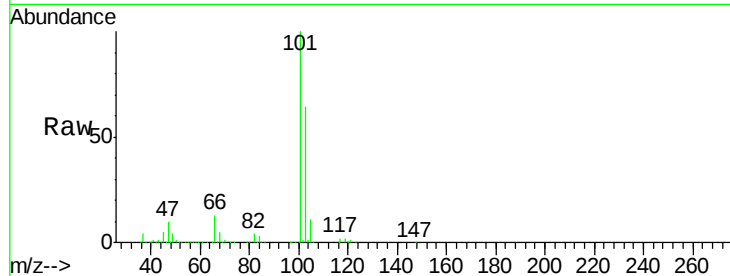
#11
 Trichlorofluoromethane
 Concen: 10.036 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 2071788
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.2 76.8

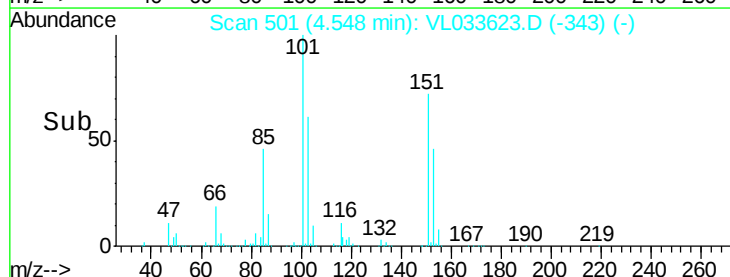
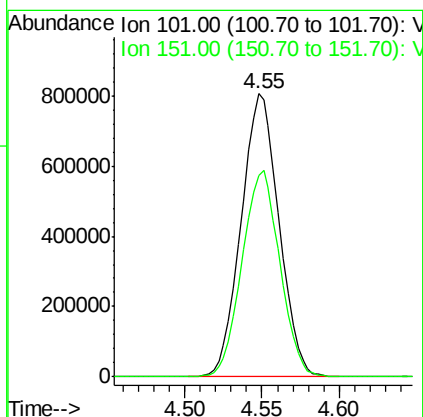
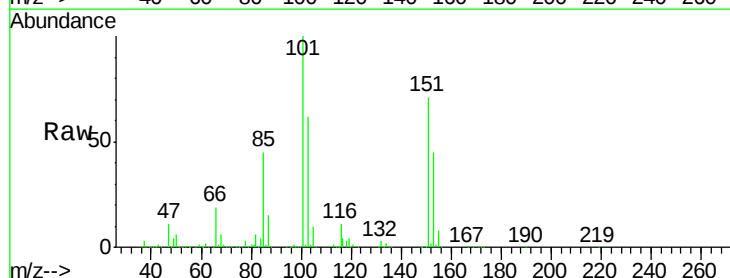
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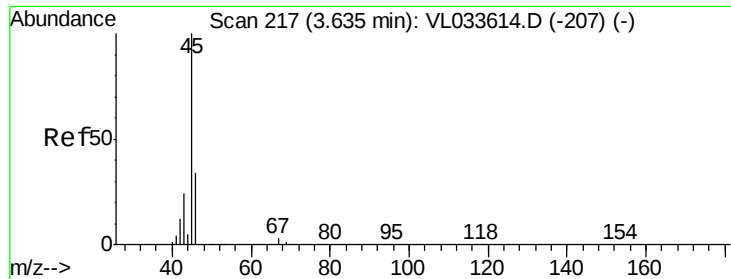
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.684 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Tgt Ion:101 Resp: 1371030
 Ion Ratio Lower Upper
 101 100
 151 73.2 59.2 88.8





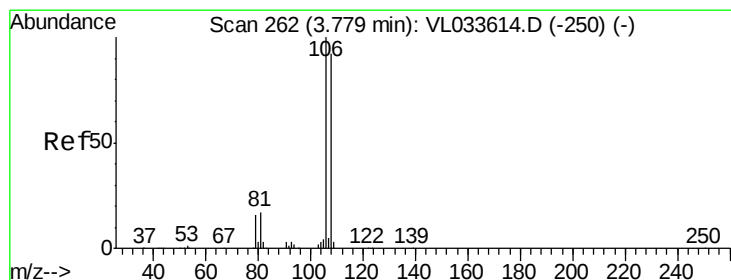
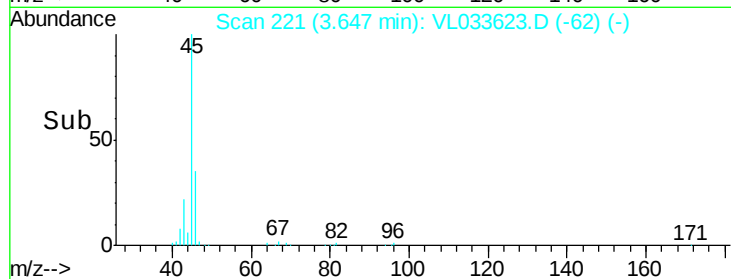
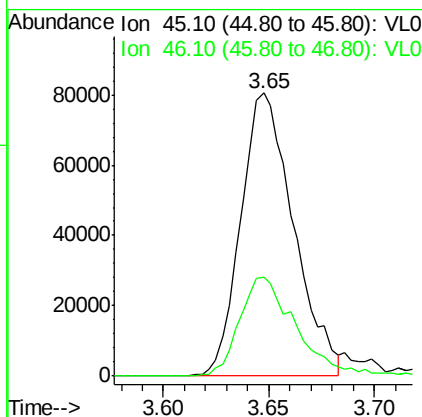
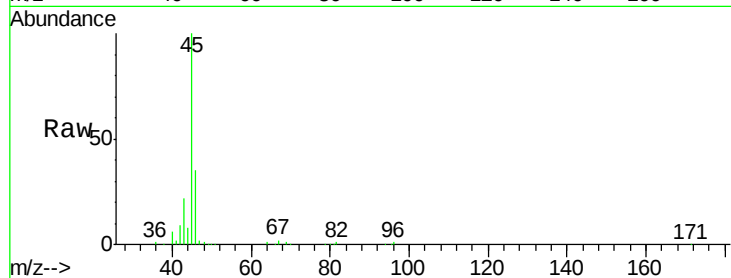
#13
Ethanol
Concen: 7.780 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	46	Ratio	100	38.3	Resp	Lower	Upper
45	100					139169		
46		38.3				14.6	58.2	

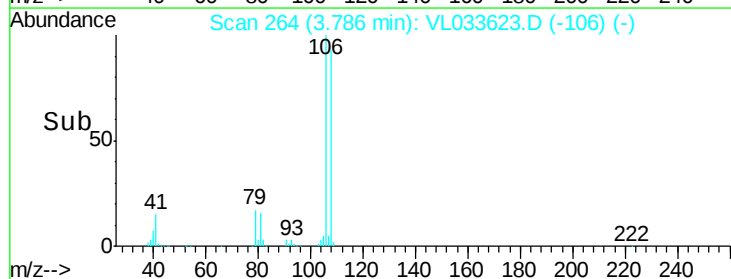
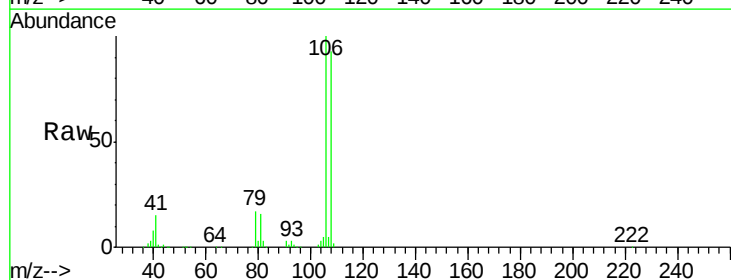
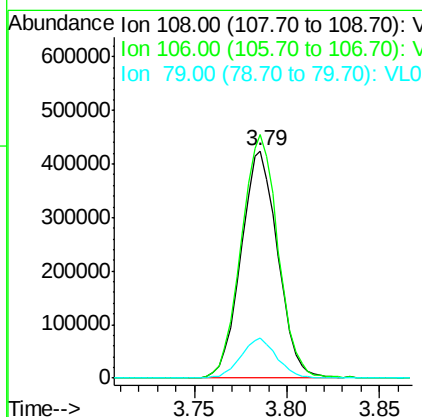
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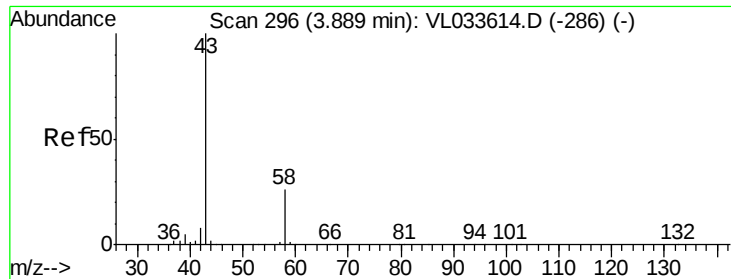
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#14
Bromoethene
Concen: 10.077 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion	108	106	79	Ratio	100	108.2	17.6	Resp	Lower	Upper
108	100							585586		
106		108.2				84.6	127.0			
79			17.6			14.4	21.6			





#15

Acetone

Concen: 9.383 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1316365

Ion Ratio Lower Upper

43 100

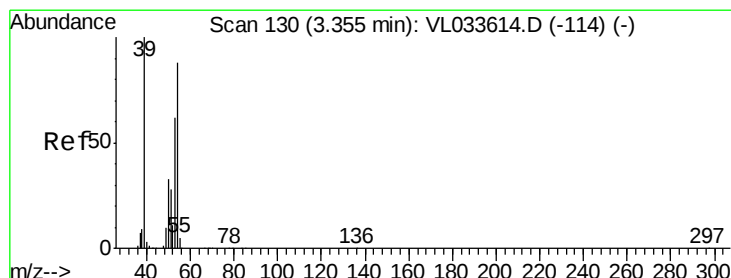
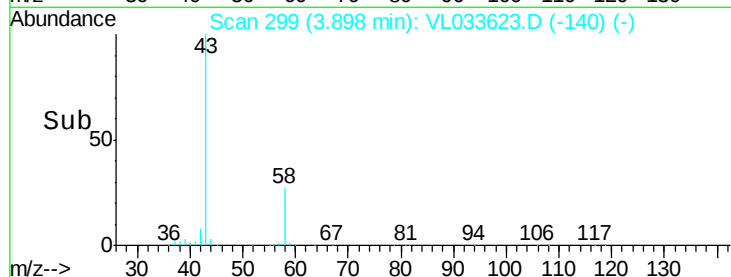
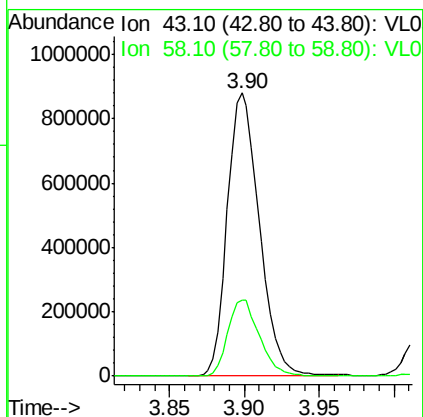
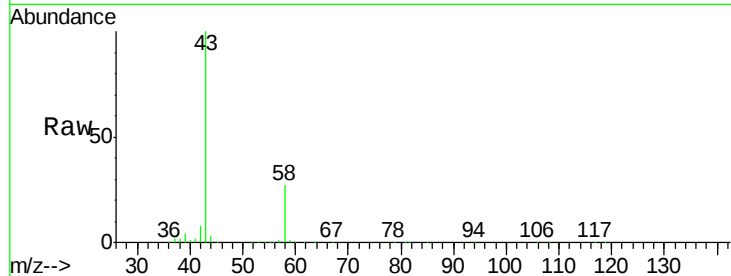
58 26.7 21.2 31.8

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#16

1,3-Butadiene

Concen: 9.990 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL033623.D

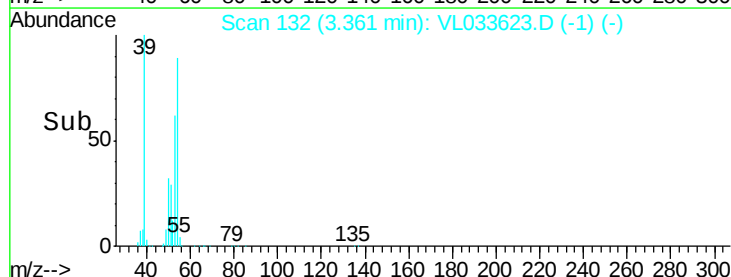
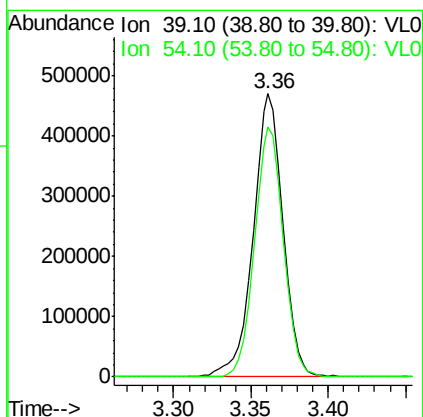
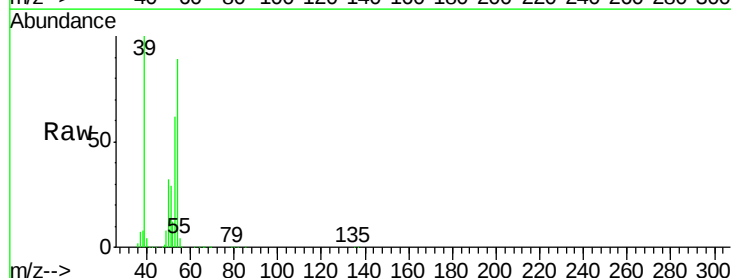
Acq: 2 May 2019 10:26

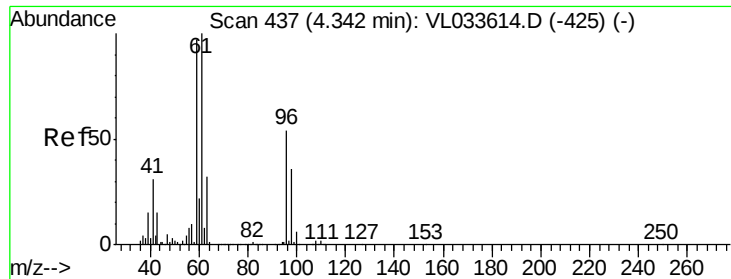
Tgt Ion: 39 Resp: 630785

Ion Ratio Lower Upper

39 100

54 85.9 68.4 102.6





#17

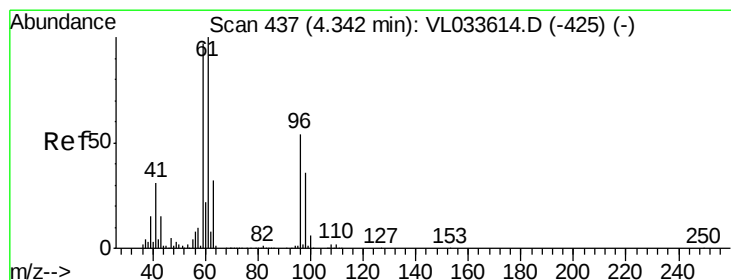
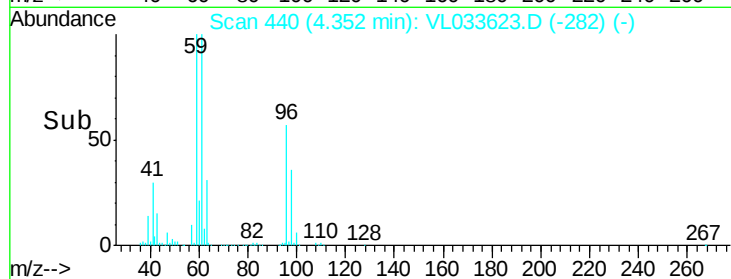
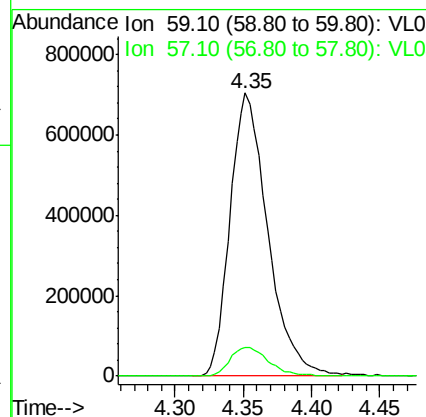
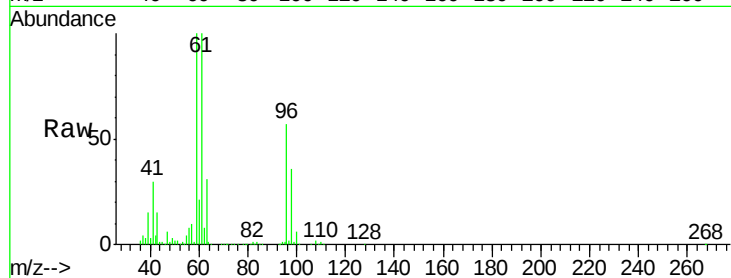
tert-Butyl alcohol
Concen: 11.172 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1353296
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

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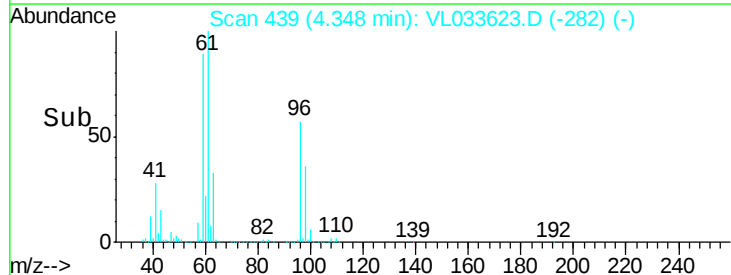
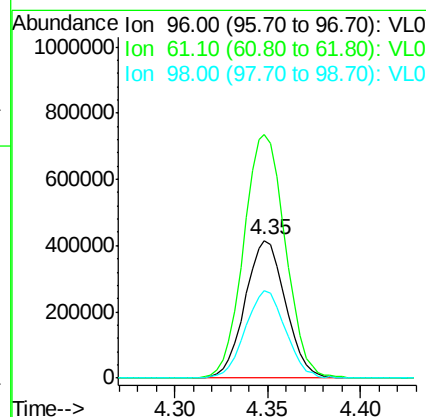
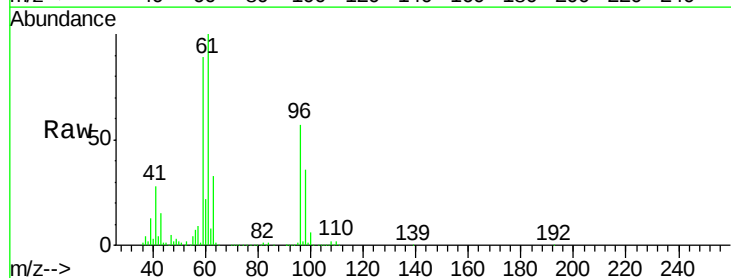
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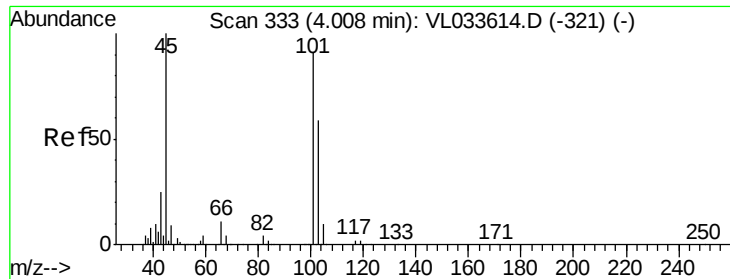


#18

1,1-Dichloroethene
Concen: 10.194 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion: 96 Resp: 627171
Ion Ratio Lower Upper
96 100
61 176.5 147.3 220.9
98 63.3 53.6 80.4





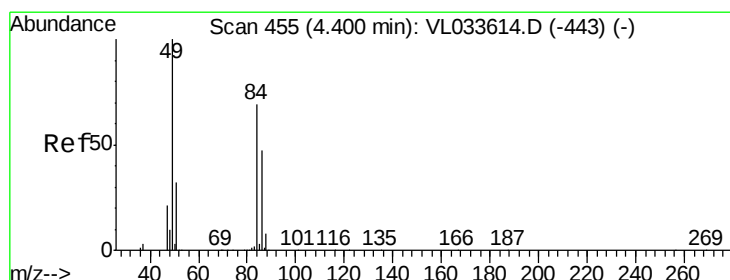
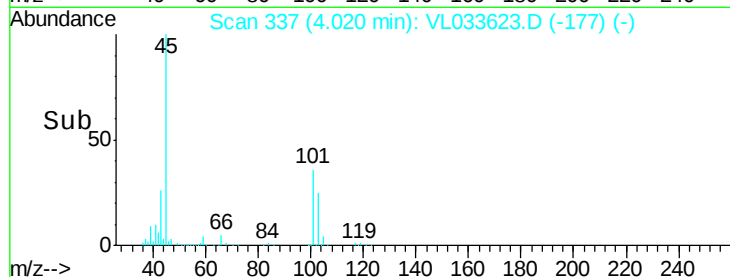
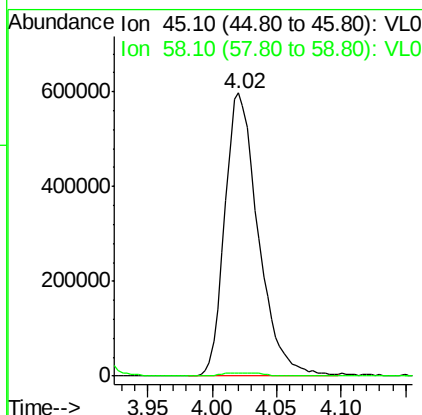
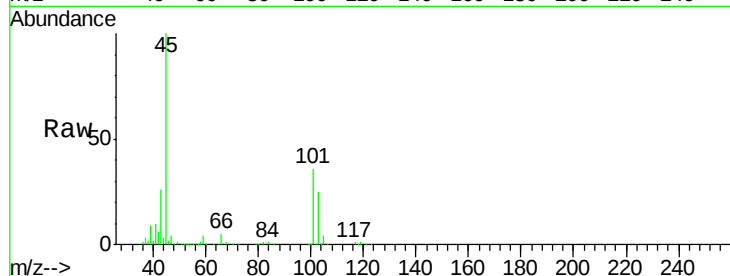
#19
Isopropyl Alcohol
Concen: 11.219 ppbv
RT: 4.02 min Scan# 337
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 1080306
Ion Ratio Lower Upper
45 100
58 1.6 1.8 2.6#

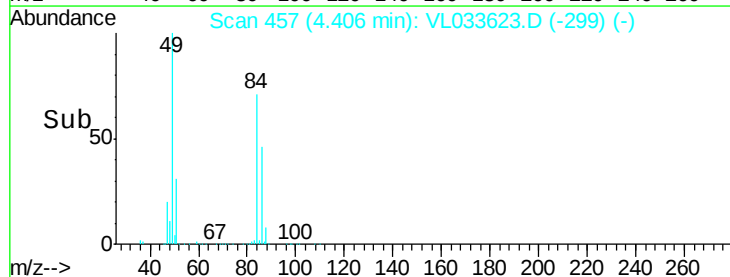
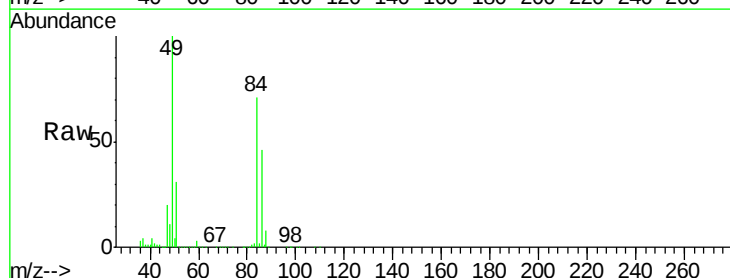
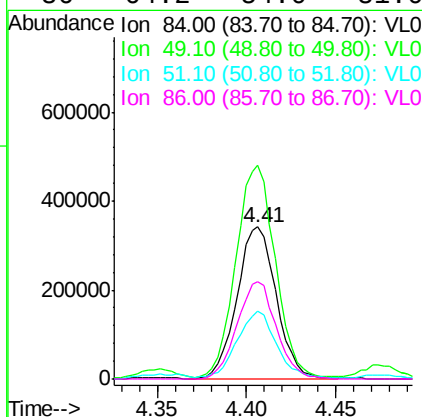
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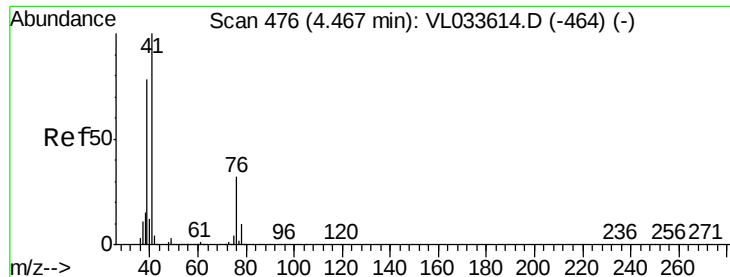
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#20
Methylene Chloride
Concen: 9.515 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion: 84 Resp: 520252
Ion Ratio Lower Upper
84 100
49 139.5 116.2 174.2
51 43.8 37.0 55.6
86 64.2 54.0 81.0





#21

Allvl Chloride

Concen: 10.574 ppbv

RT: 4.47 min Scan# 478

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

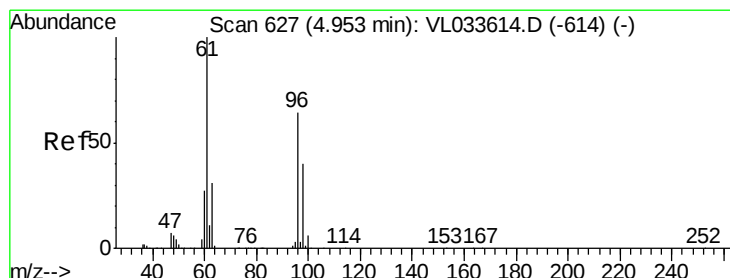
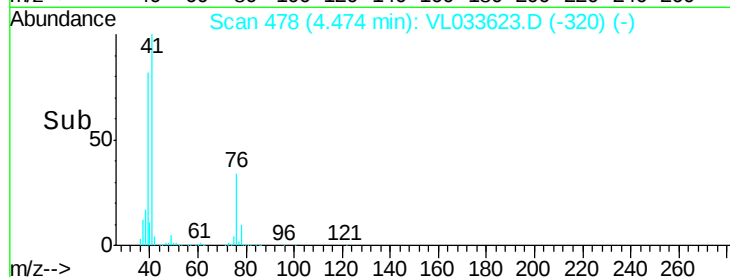
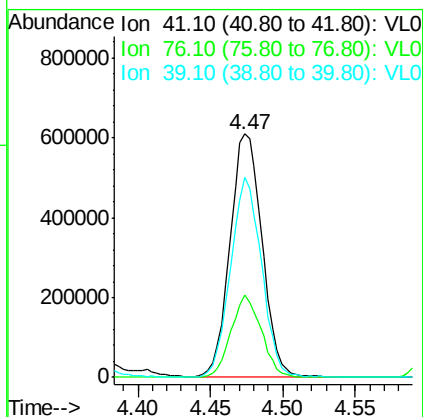
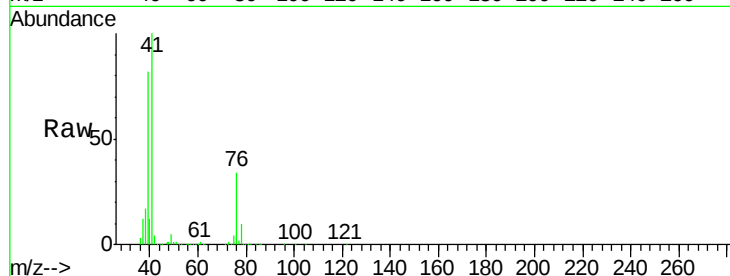
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	933257
Ion Ratio		Lower	Upper
41	100		
76	32.1	25.0	37.6
39	79.5	64.6	96.8

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#22

trans-1,2-Dichloroethene

Concen: 11.124 ppbv

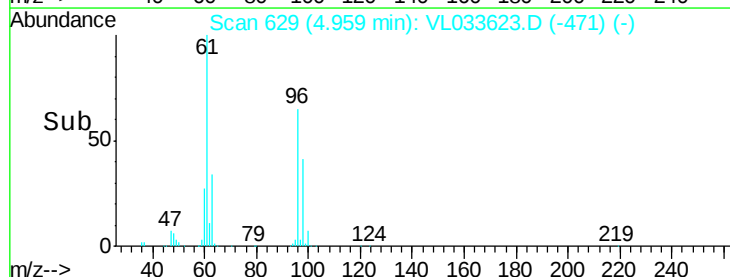
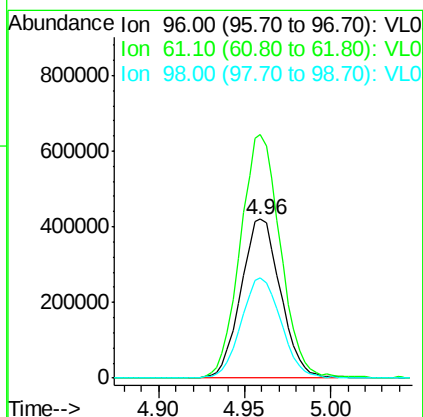
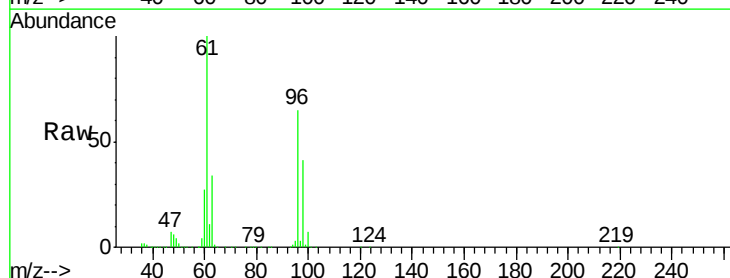
RT: 4.96 min Scan# 629

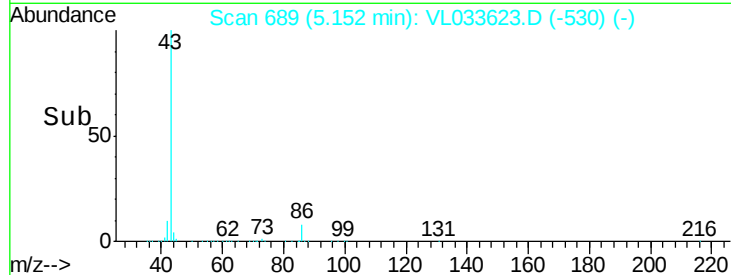
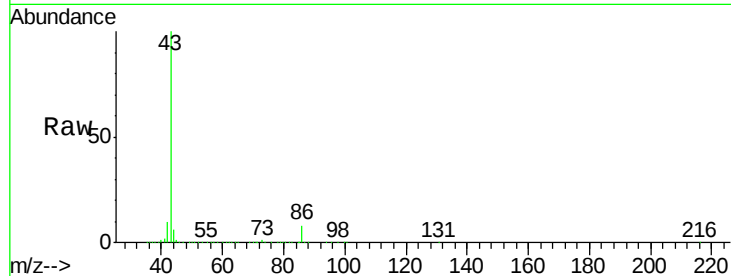
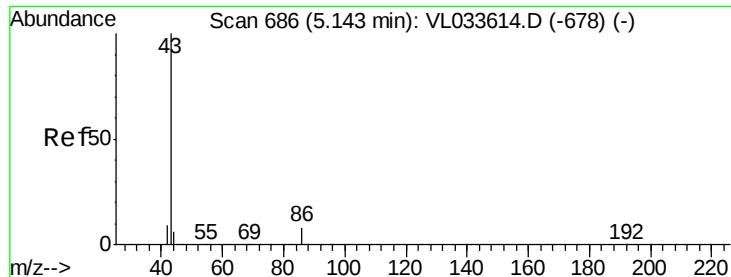
Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

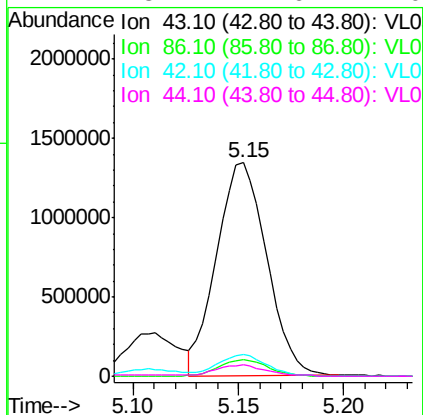
Tgt Ion:	96	Resp:	670289
Ion Ratio		Lower	Upper
96	100		
61	153.3	124.9	187.3
98	63.4	50.5	75.7





#23
Vinvl Acetate
Concen: 10.586 ppbv
RT: 5.15 min Scan# 689
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

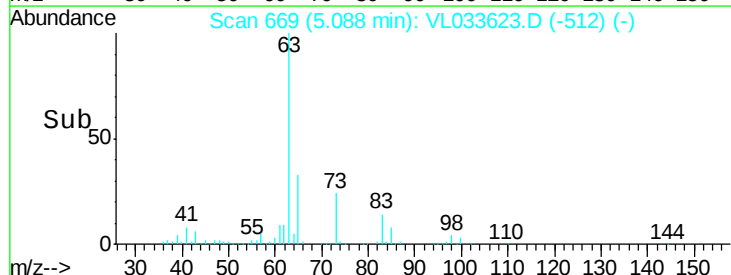
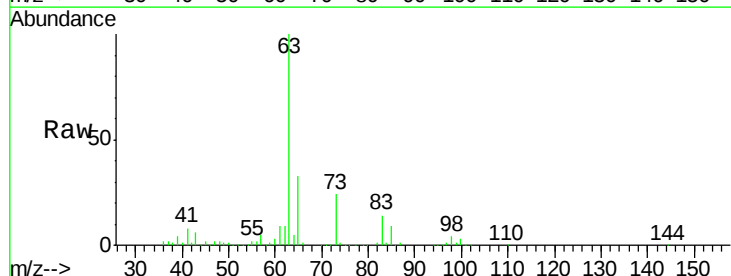
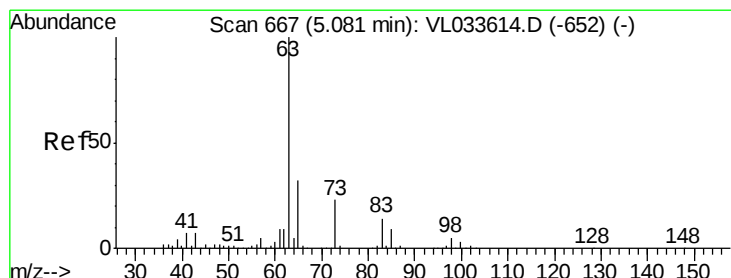
Tot Ion	43	Resp	2208636
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.8	8.8
42	9.9	7.8	11.8
44	5.4	4.6	7.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

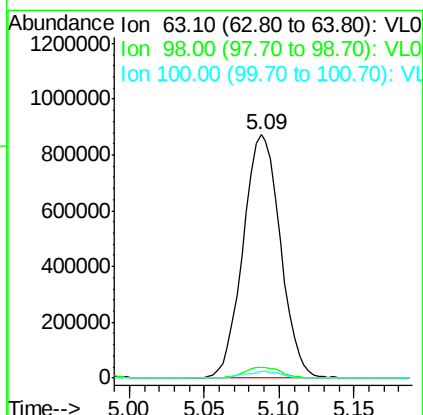
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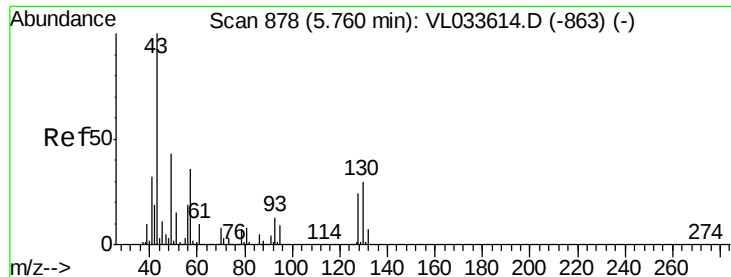
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#24
1,1-Dichloroethane
Concen: 9.739 ppbv
RT: 5.09 min Scan# 669
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion	63	Resp	1512682
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.4	7.2
100	3.0	1.4	4.0





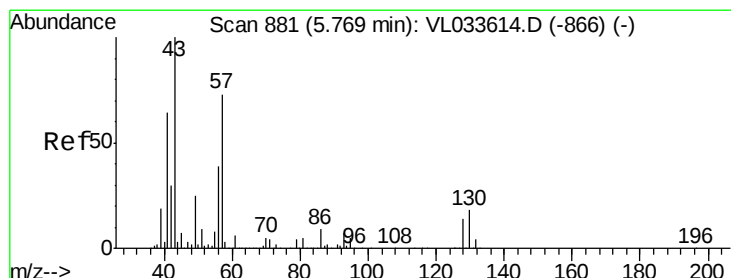
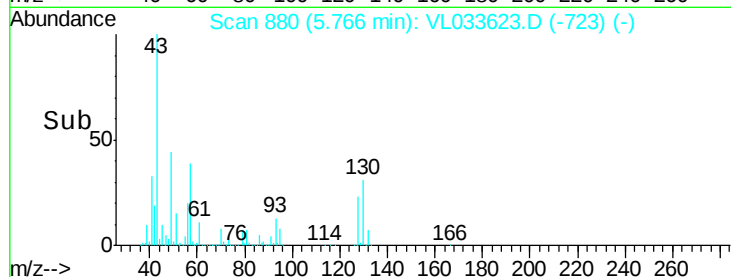
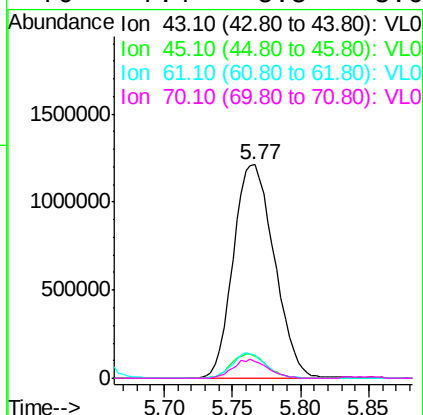
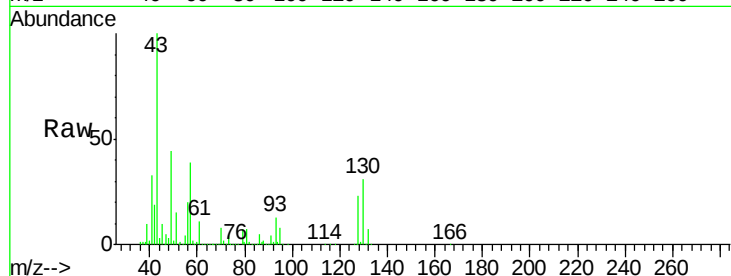
#25
Ethyl Acetate
Concen: 9.512 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	43	Resp	2532842
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	9.9	7.5	11.3
70	7.4	5.8	8.6

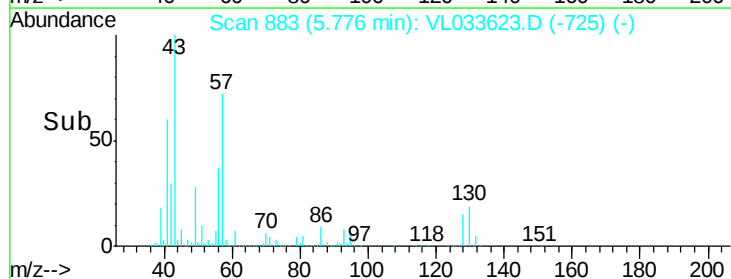
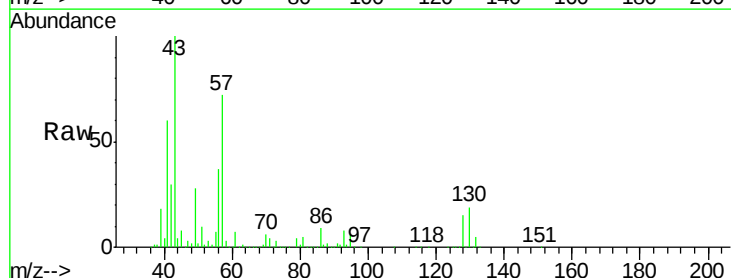
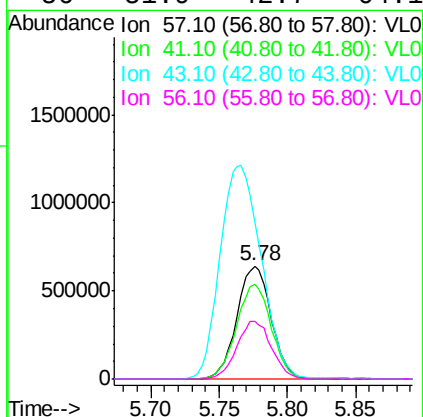
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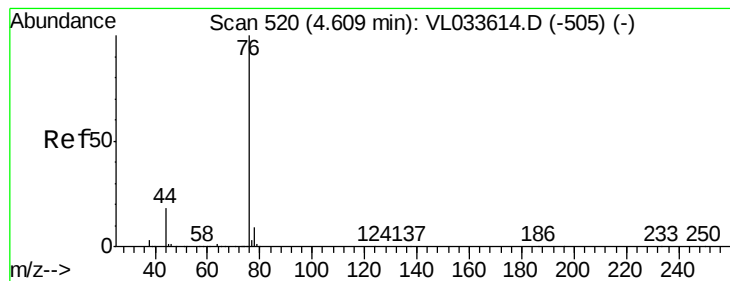
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#26
Hexane
Concen: 9.973 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion	57	Resp	1118231
Ion	Ratio	Lower	Upper
57	100		
41	85.3	70.6	106.0
43	227.7	186.0	279.0
56	51.9	42.7	64.1





#27

Carbon Disulfide

Concen: 11.375 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1544599

Ion Ratio Lower Upper

76 100

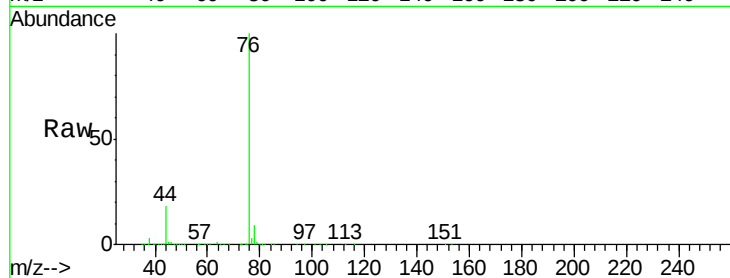
44 17.9 14.3 21.5

78 9.3 7.5 11.3

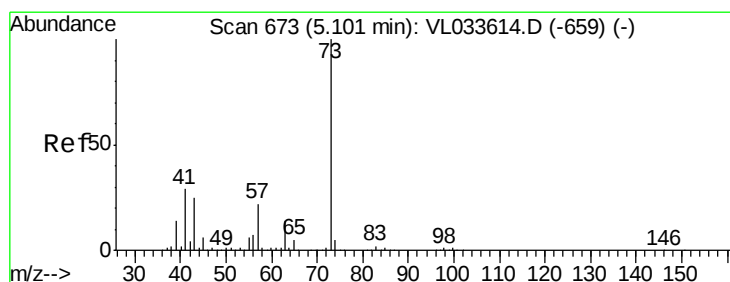
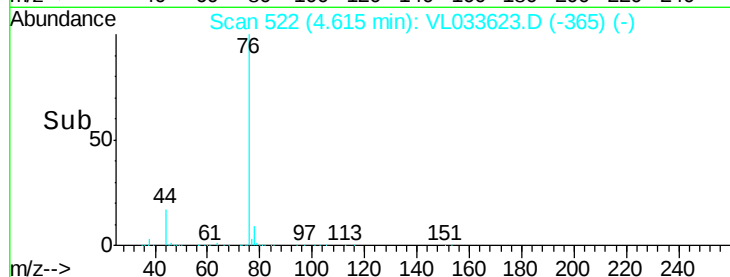
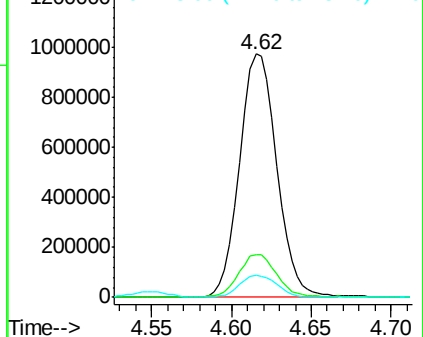
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.733 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.01 min

Lab File: VL033623.D

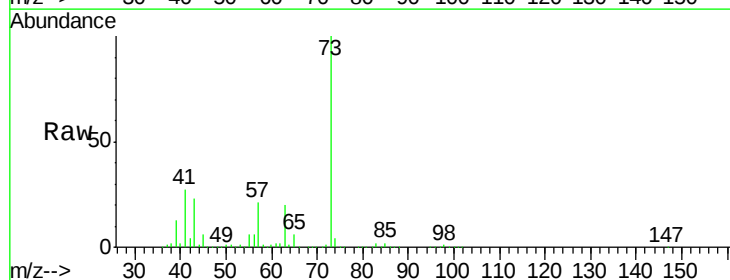
Acq: 2 May 2019 10:26

Tgt Ion: 73 Resp: 2029379

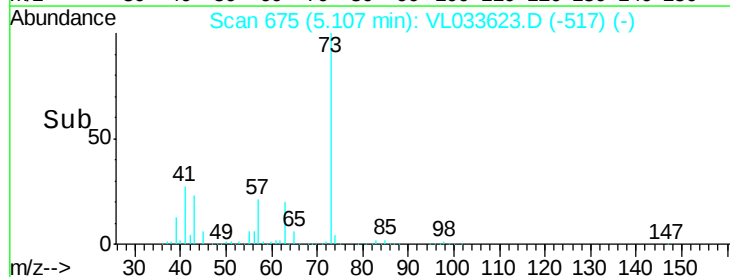
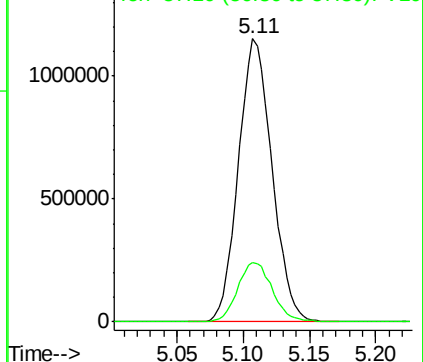
Ion Ratio Lower Upper

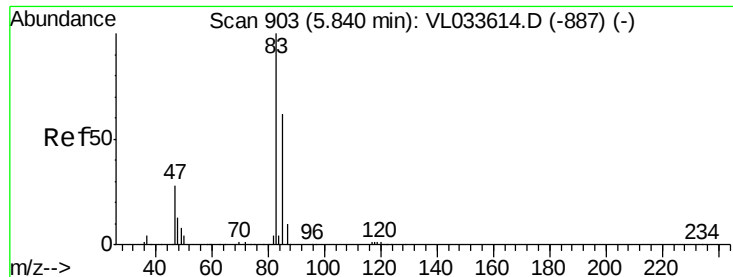
73 100

57 21.8 17.8 26.8



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





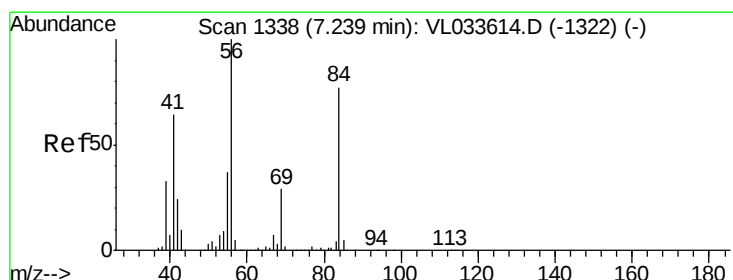
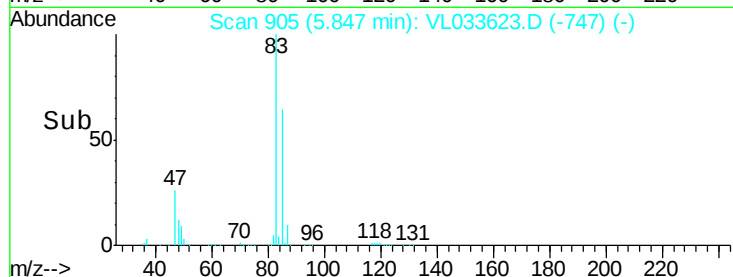
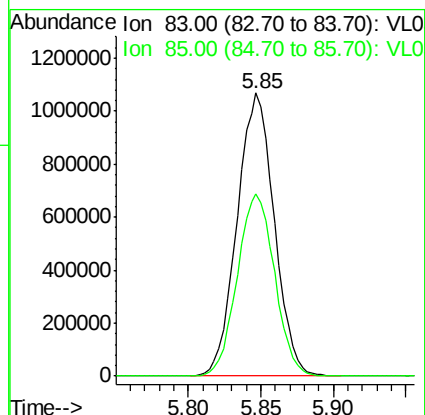
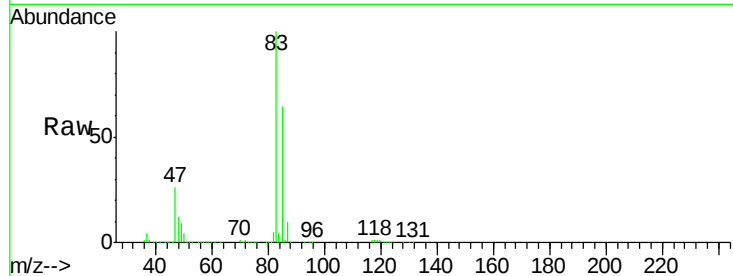
#29
Chloroform
Concen: 9.241 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1898924
Ion Ratio Lower Upper
83 100
85 64.3 49.9 74.9

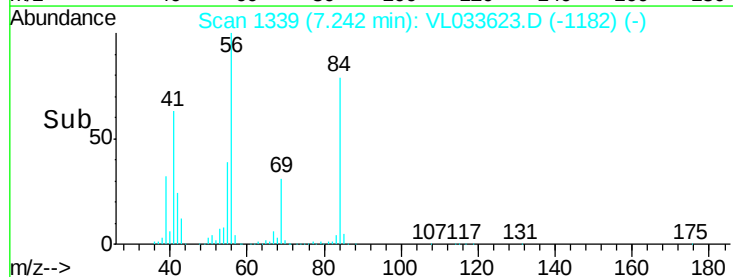
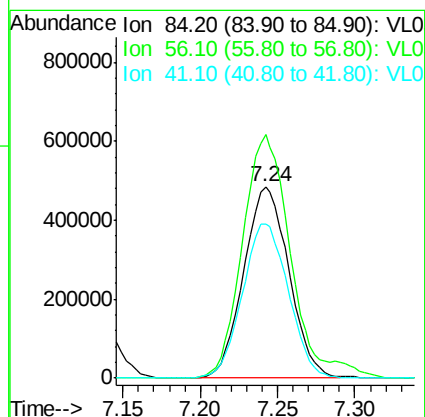
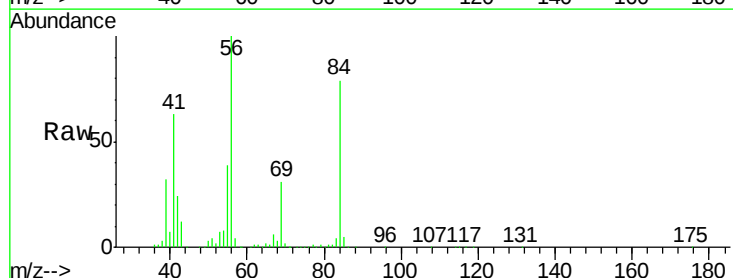
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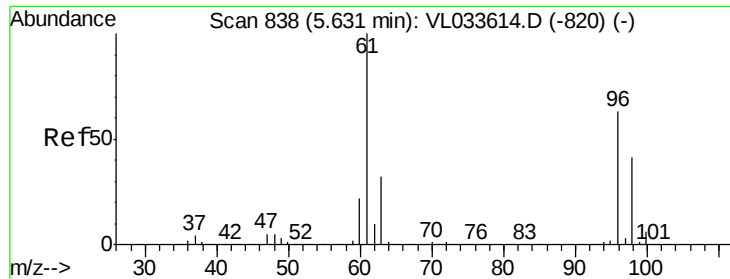
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#30
Cyclohexane
Concen: 10.393 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion: 84 Resp: 986483
Ion Ratio Lower Upper
84 100
56 135.8 108.4 162.6
41 82.1 67.0 100.4





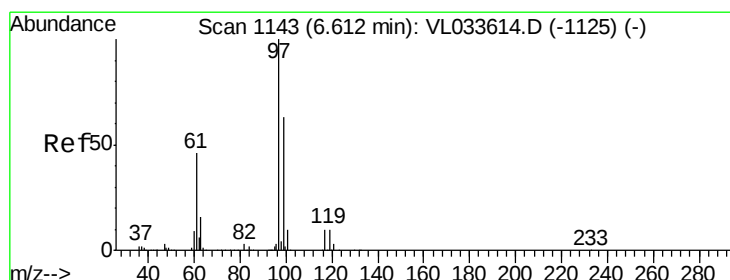
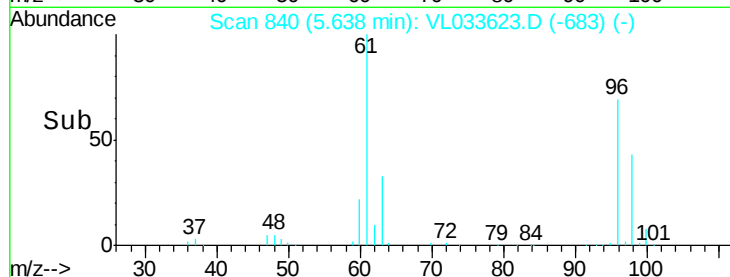
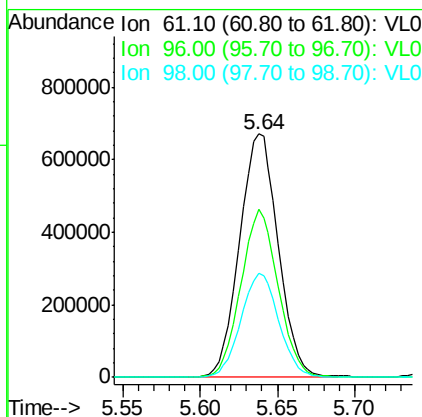
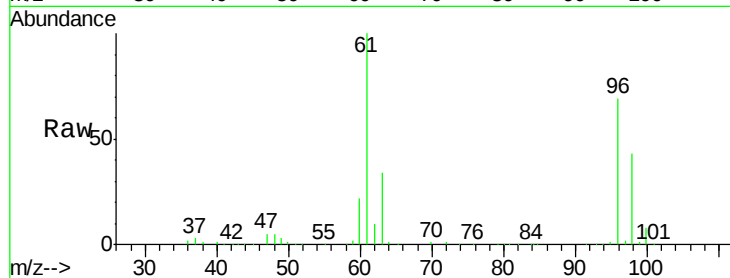
#31
 cis-1,2-Dichloroethene
 Concen: 10.301 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 61 Resp: 1165672
 Ion Ratio Lower Upper
 61 100
 96 69.1 50.6 76.0
 98 42.5 32.8 49.2

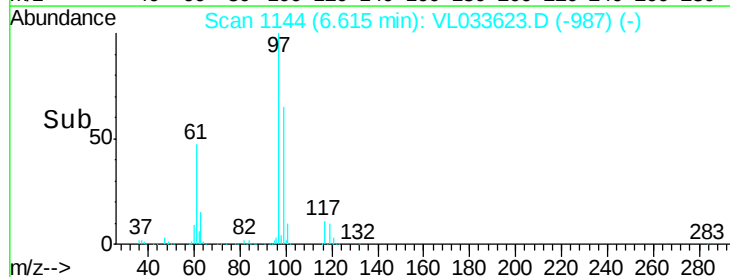
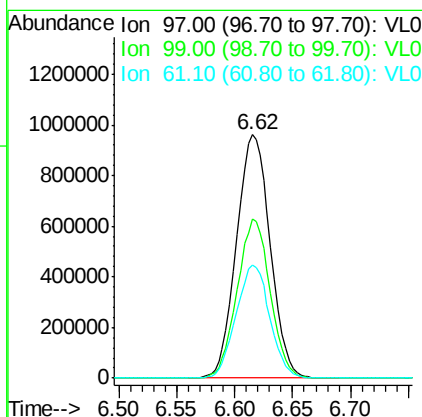
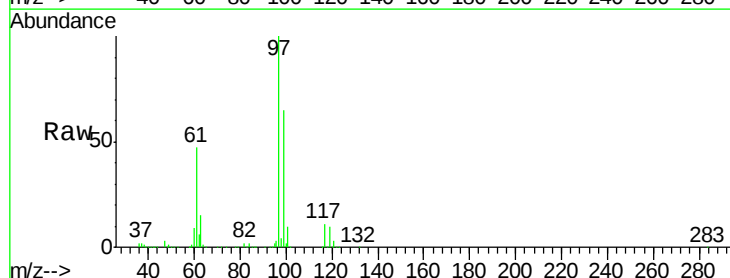
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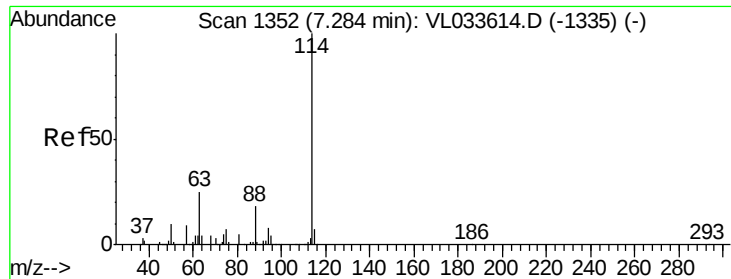
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#32
 1,1,1-Trichloroethane
 Concen: 9.013 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Tgt Ion: 97 Resp: 1938504
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.9 77.9
 61 46.7 38.2 57.2





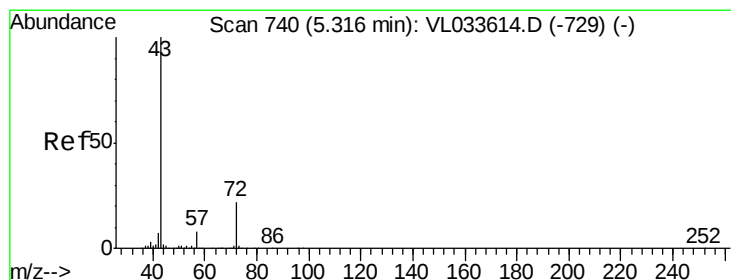
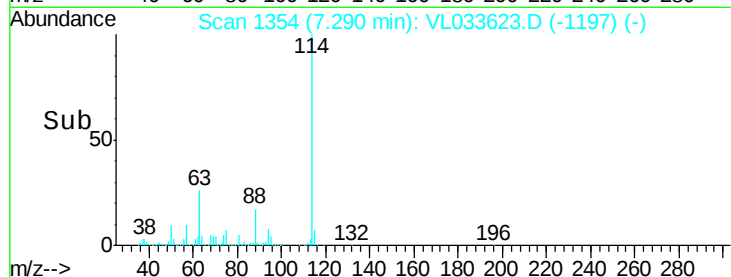
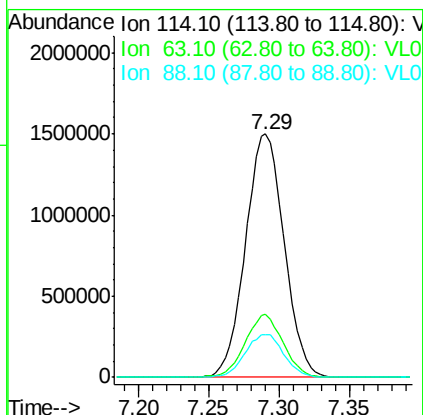
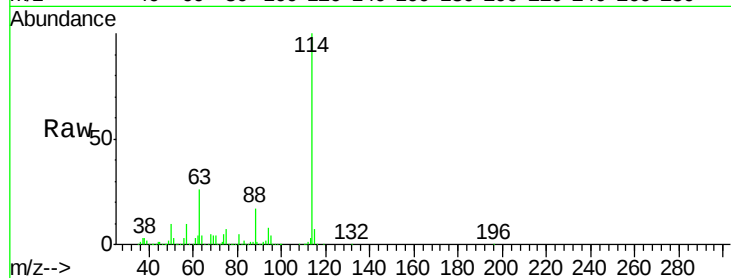
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.1	31.7
88	17.8	14.2	21.4

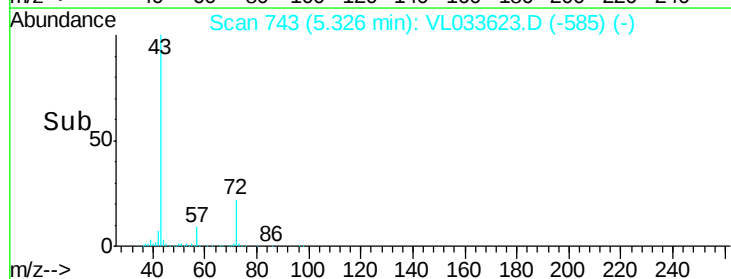
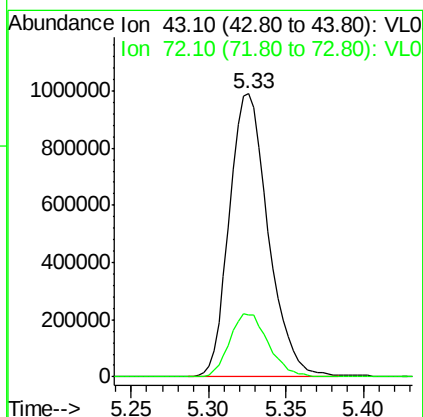
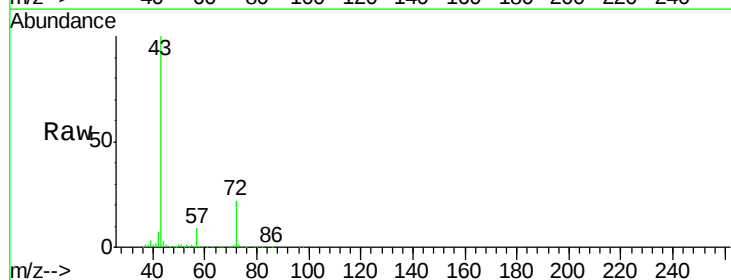
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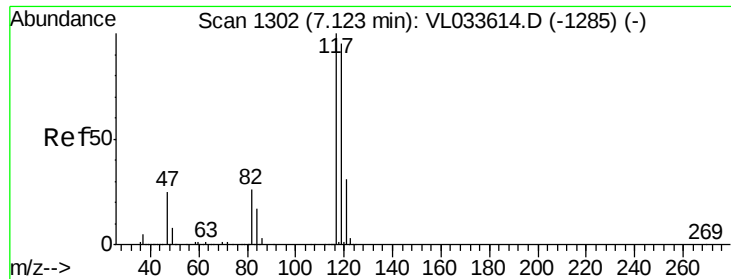
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#34
 2-Butanone
 Concen: 9.721 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.5	17.8	26.8





#35

Carbon Tetrachloride

Concen: 9.069 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2069758

Ion Ratio Lower Upper

117 100

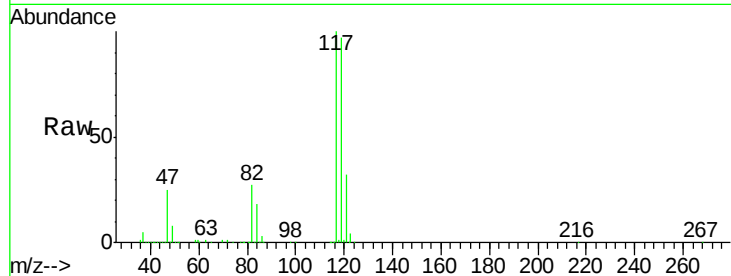
119 96.7 76.2 114.4

121 32.0 24.9 37.3

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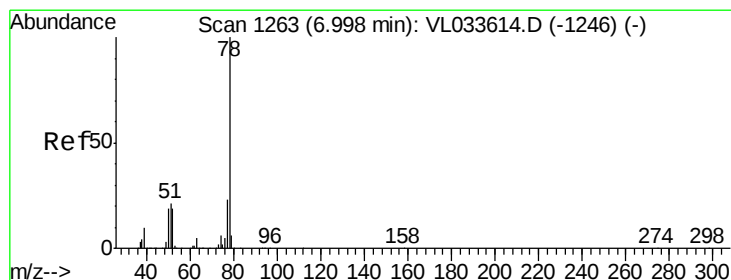
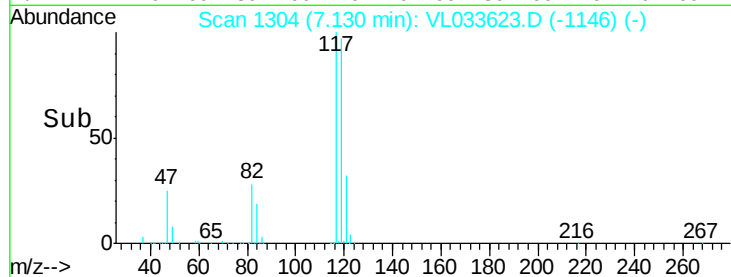
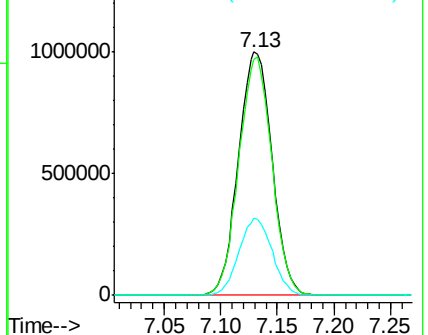
5/4/2019 7:18:26 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.106 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

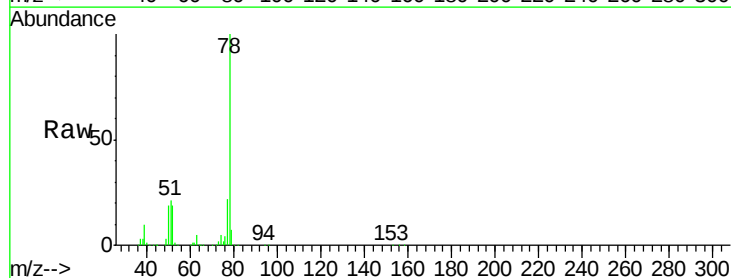
Tgt Ion: 78 Resp: 2480607

Ion Ratio Lower Upper

78 100

77 21.9 18.1 27.1

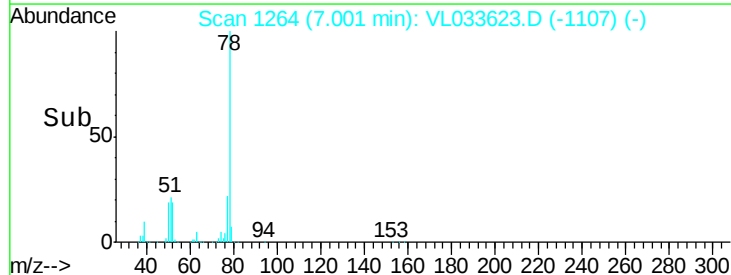
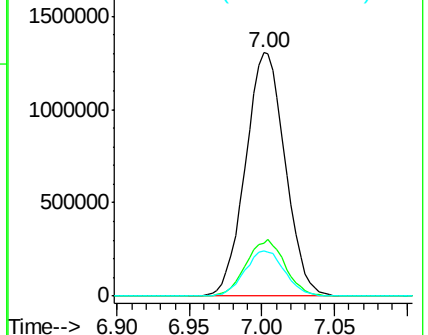
50 18.8 15.1 22.7

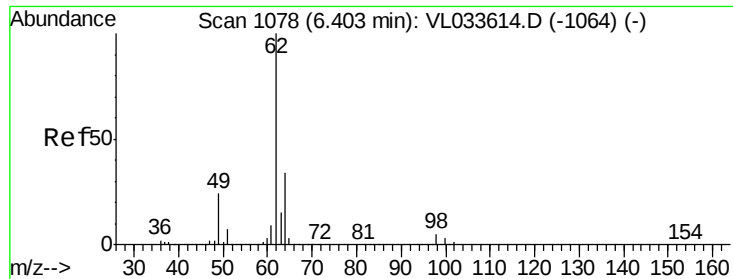


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





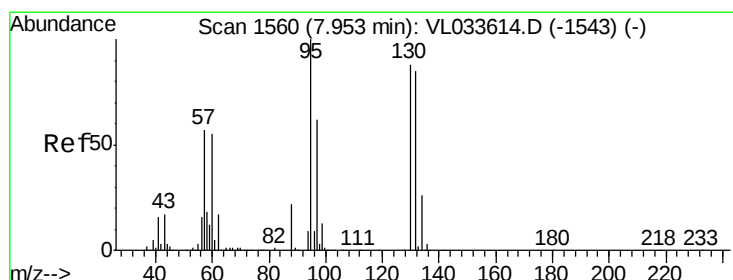
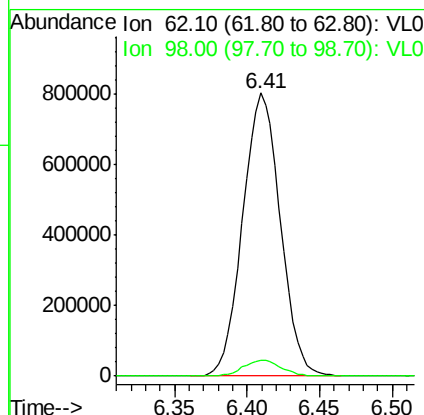
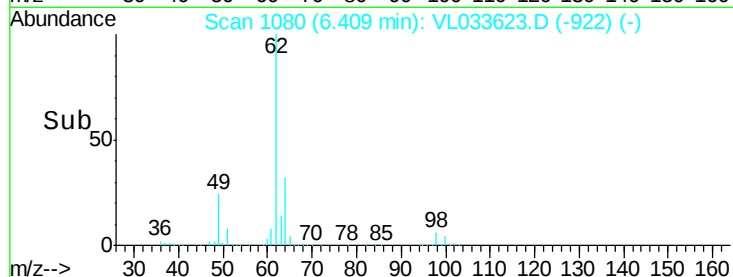
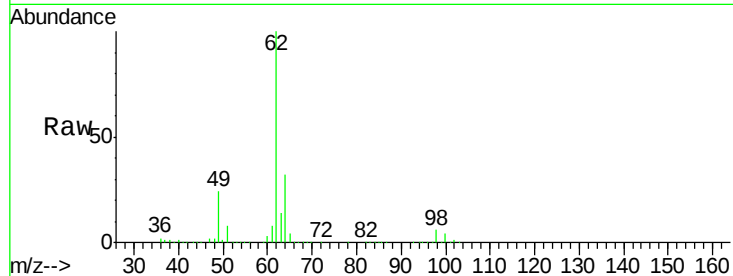
#37
 1,2-Dichloroethane
 Concen: 8.877 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1447828
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.4 6.6

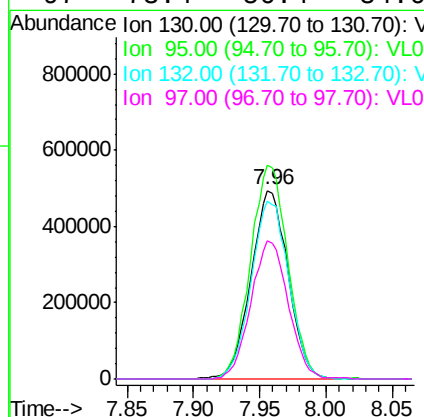
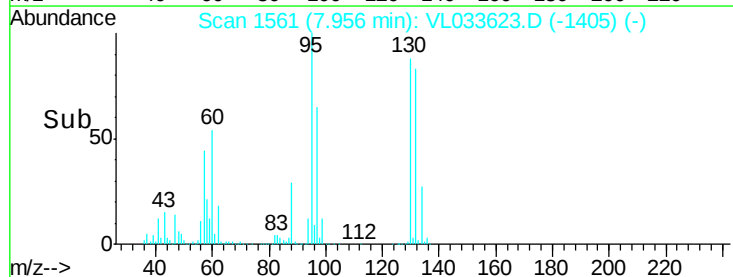
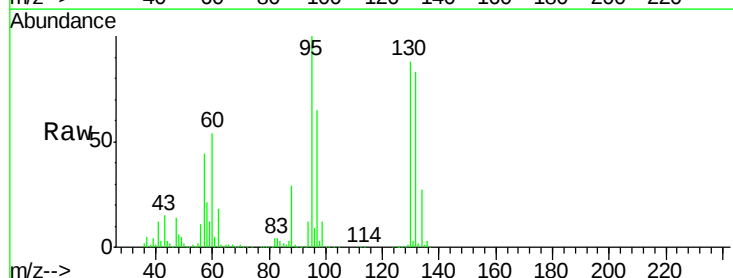
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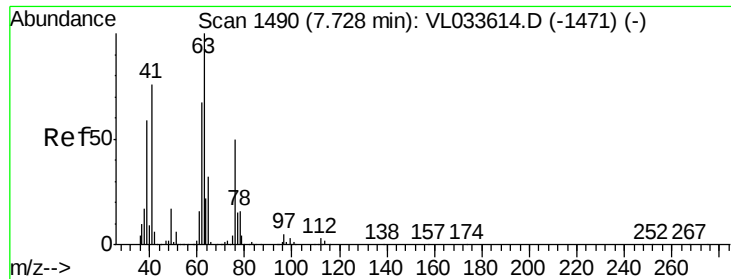
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#38
 Trichloroethene
 Concen: 9.763 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Tgt Ion:130 Resp: 955733
 Ion Ratio Lower Upper
 130 100
 95 113.7 91.2 136.8
 132 94.8 77.8 116.8
 97 73.4 56.4 84.6





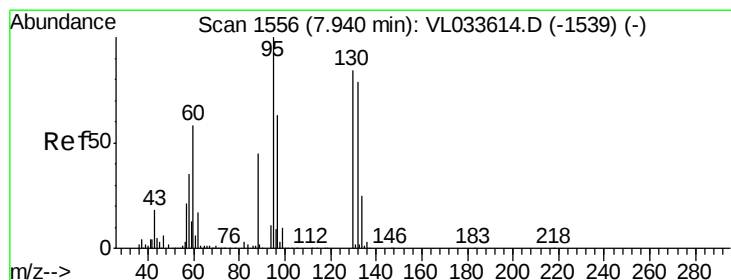
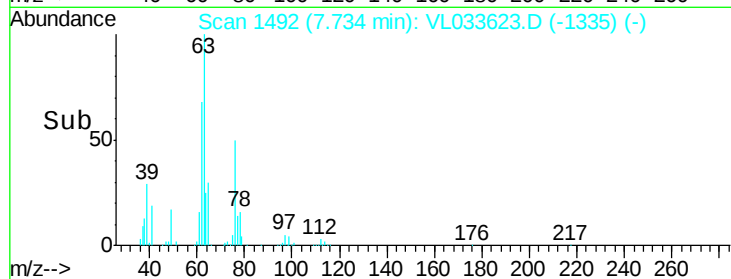
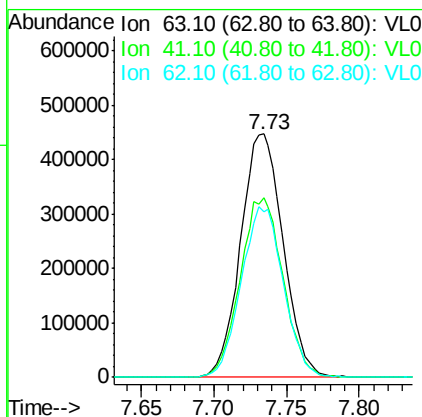
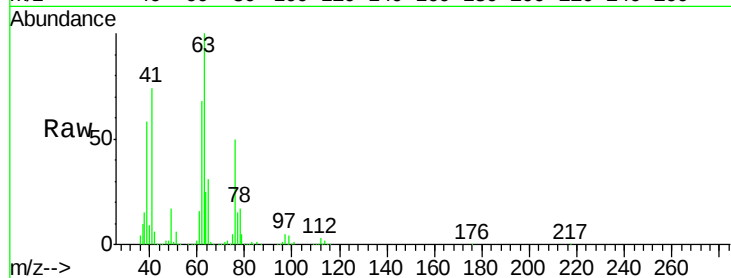
#39
 1,2-Dichloropropane
 Concen: 9.840 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	63	Resp:	910815
Ion Ratio	Lower	Upper	
63	100		
41	73.5	60.9	91.3
62	68.0	53.3	79.9

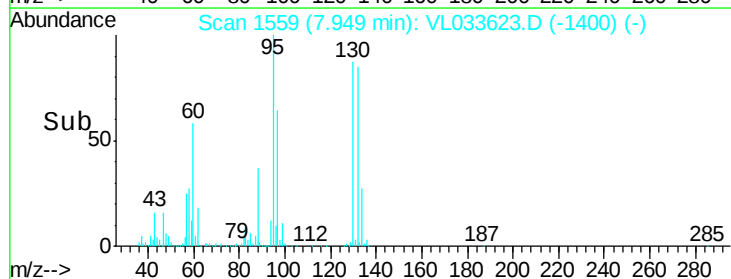
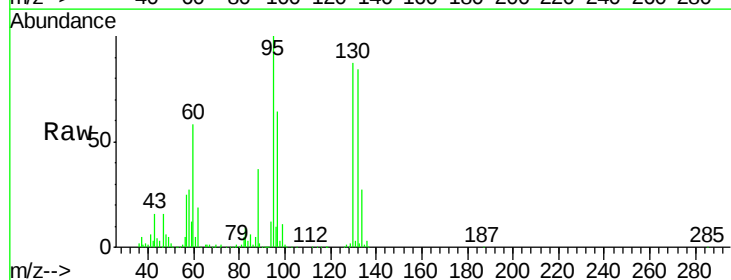
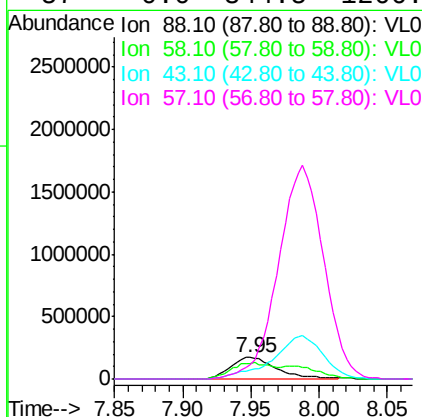
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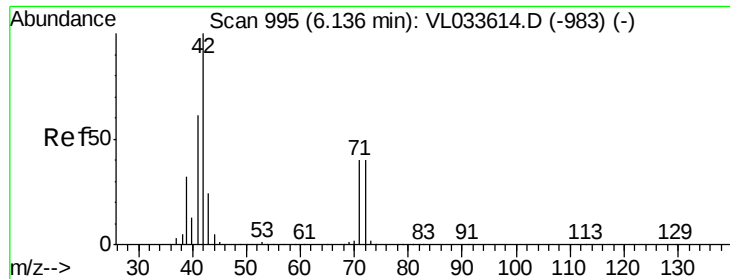
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#40
 1,4-Dioxane
 Concen: 10.699 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Tgt Ion:	88	Resp:	402400
Ion Ratio	Lower	Upper	
88	100		
58	118.9	98.4	147.6
43	0.0	190.7	286.1#
57	0.0	844.5	1266.7#





#41

Tetrahydrofuran

Concen: 10.320 ppbv

RT: 6.14 min Scan# 997

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

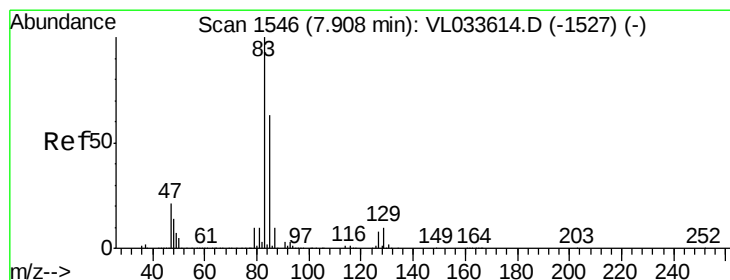
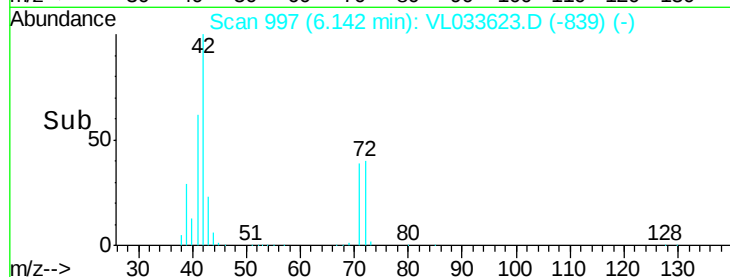
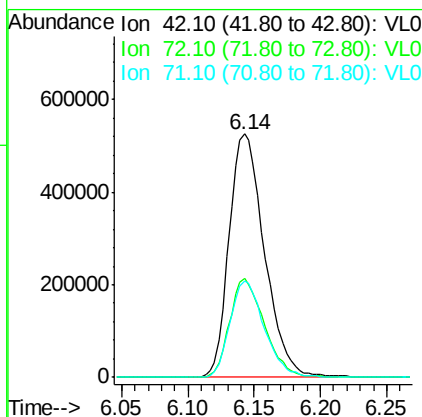
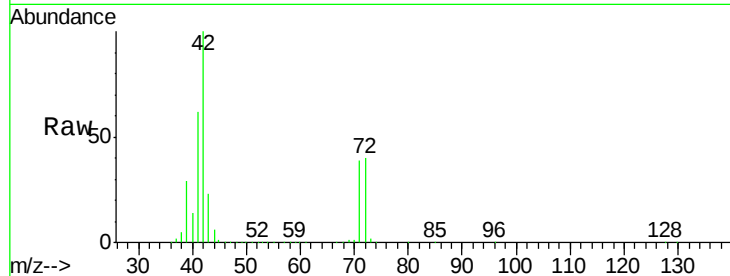
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	974729
Ion	Ratio	Lower	Upper
42	100		
72	40.1	31.8	47.6
71	38.6	31.0	46.4

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#42

Bromodichloromethane

Concen: 9.551 ppbv

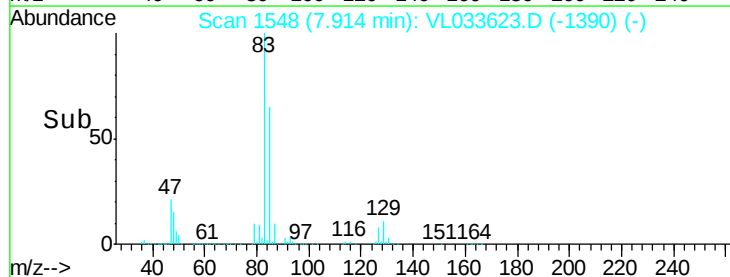
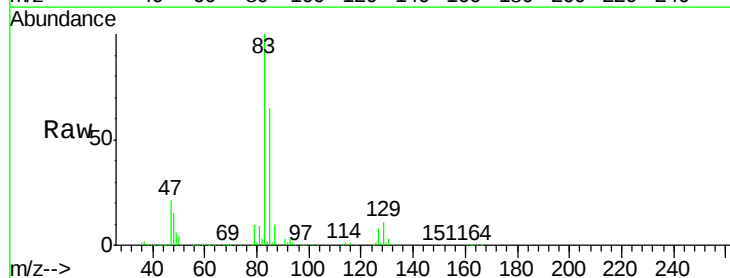
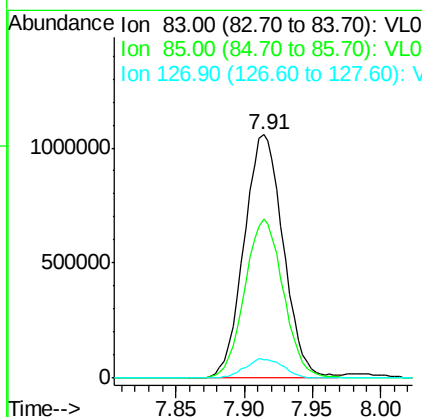
RT: 7.91 min Scan# 1548

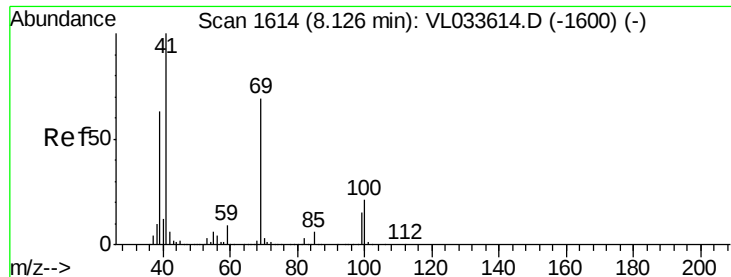
Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Tgt Ion:	83	Resp:	2108138
Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.2	75.4
127	7.5	6.5	9.7





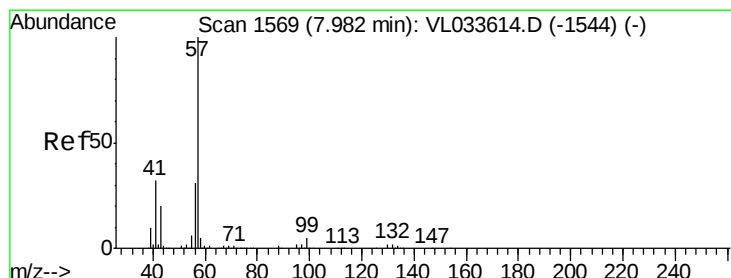
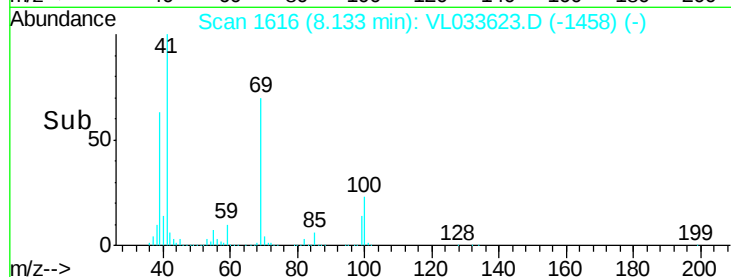
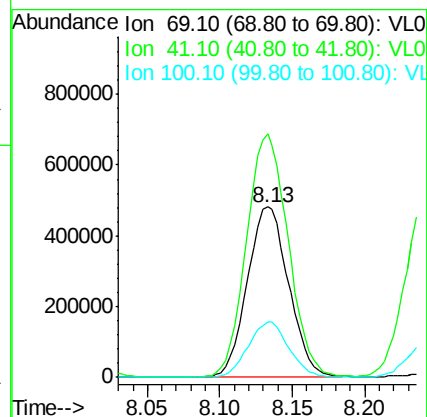
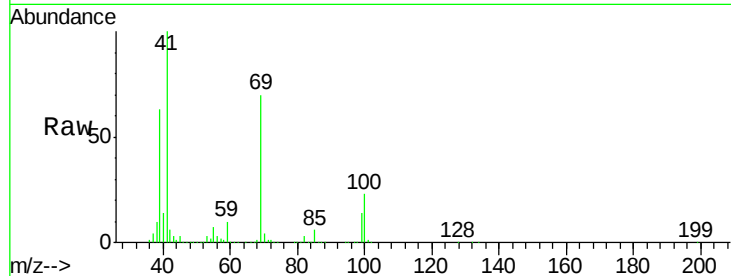
#43
Methyl Methacrylate
Concen: 10.303 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	144.0	115.0	172.4	
100	32.0	24.7	37.1	

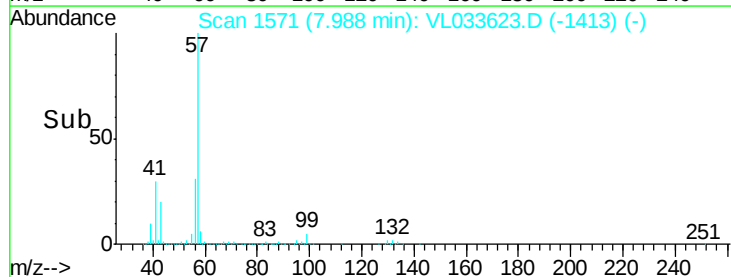
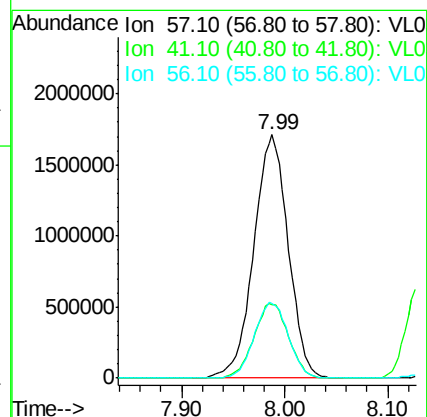
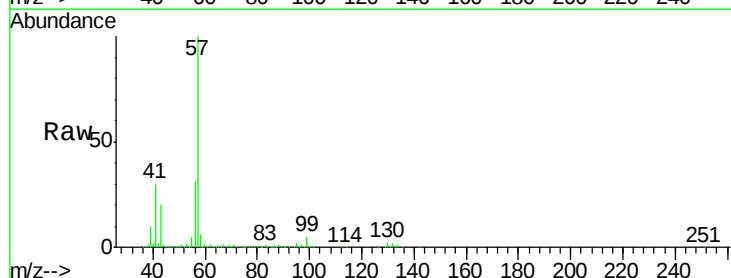
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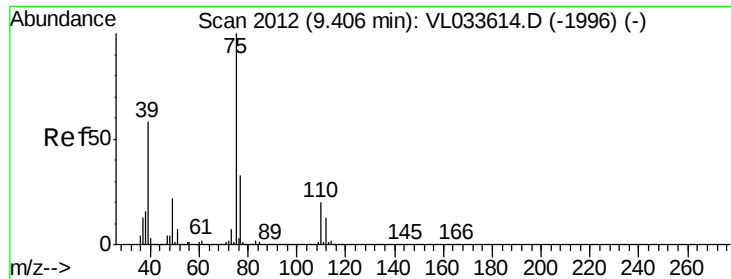
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#44
2,2,4-Trimethylpentane
Concen: 9.261 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	30.9	25.4	38.2	
56	30.9	24.6	37.0	





#45

t-1,3-Dichloropropene

Concen: 10.832 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Tot Ion: 75 Resp: 1337275

Ion Ratio Lower Upper

75 100

77 31.9 26.0 39.0

Instrument :

MSVOA_L

ClientSampleId :

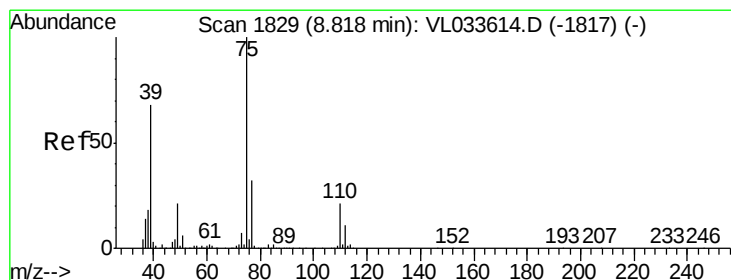
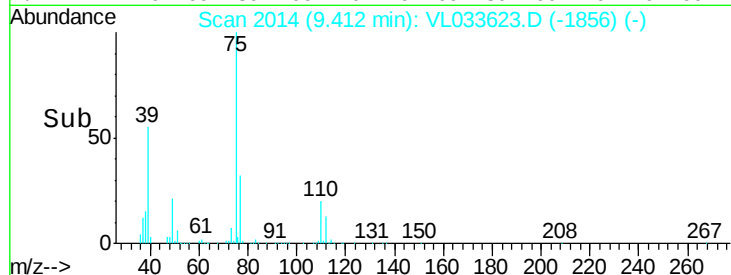
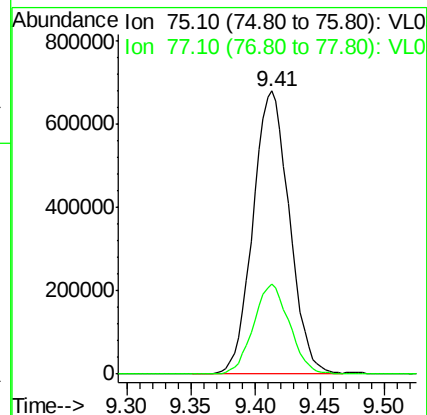
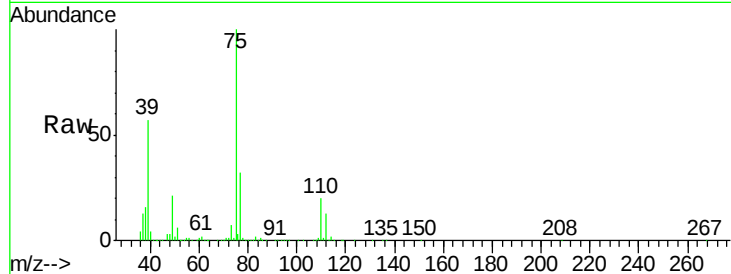
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#46

cis-1,3-Dichloropropene

Concen: 10.787 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

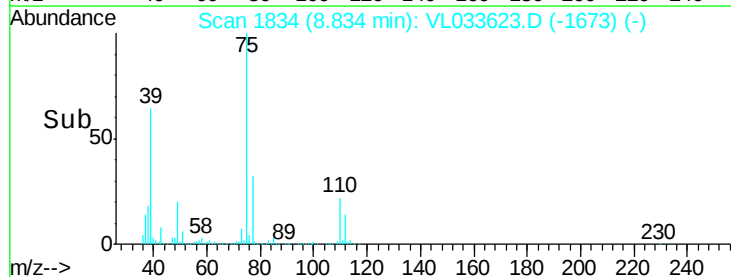
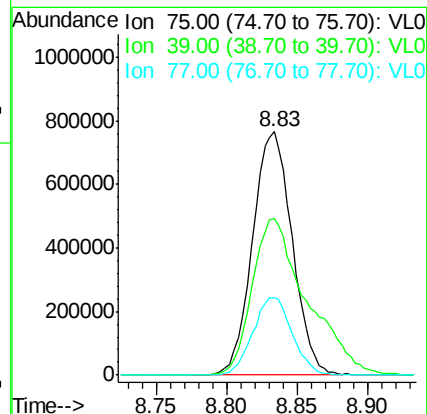
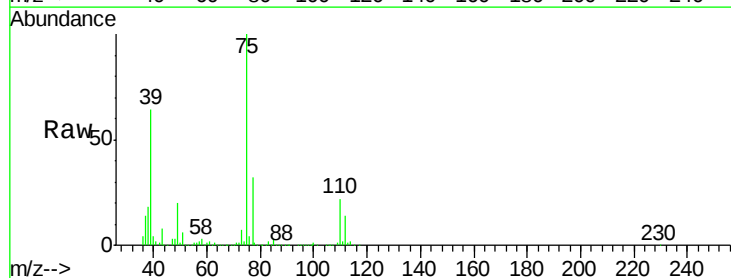
Tgt Ion: 75 Resp: 1502131

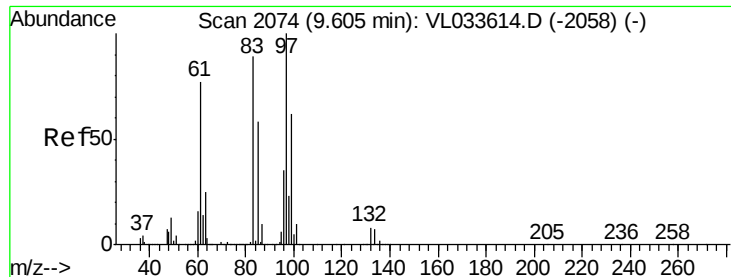
Ion Ratio Lower Upper

75 100

39 64.3 54.6 82.0

77 31.6 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 8.302 ppbv

RT: 9.62 min Scan# 2077

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 1002272

Ion Ratio Lower Upper

97 100

83 84.3 71.4 107.0

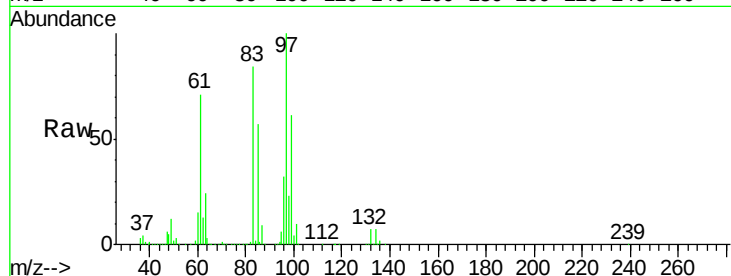
85 57.4 46.0 69.0

99 60.6 49.6 74.4

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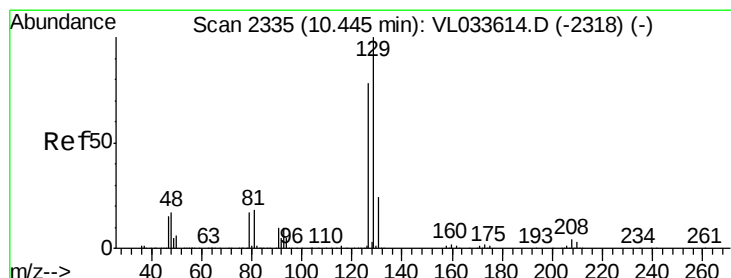
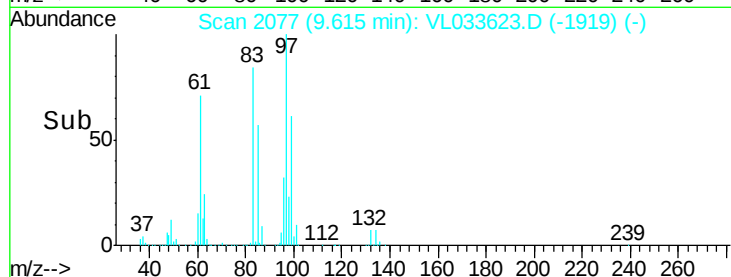
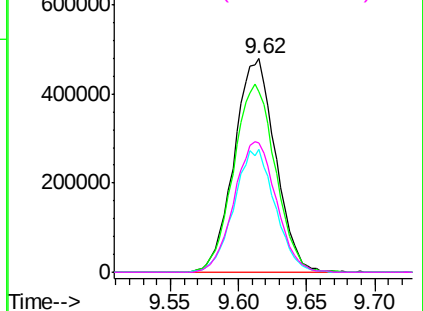


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 8.869 ppbv

RT: 10.45 min Scan# 2336

Delta R.T. 0.00 min

Lab File: VL033623.D

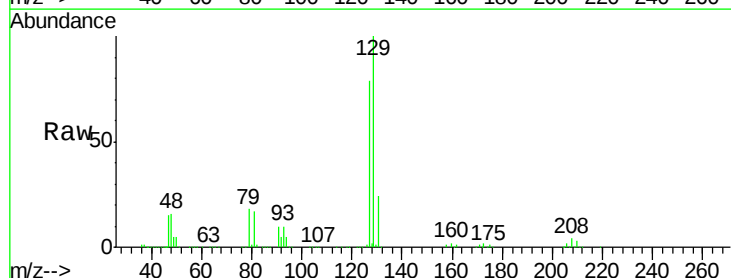
Acq: 2 May 2019 10:26

Tgt Ion: 129 Resp: 1810791

Ion Ratio Lower Upper

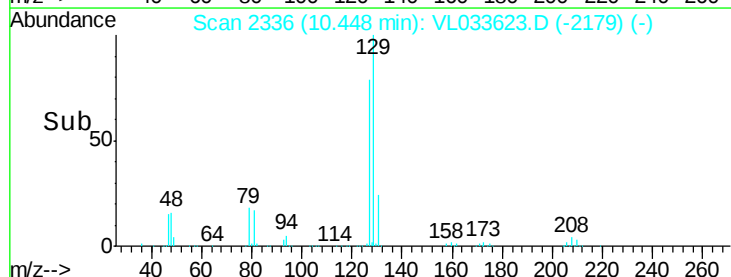
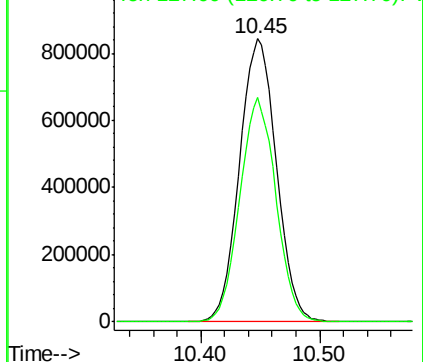
129 100

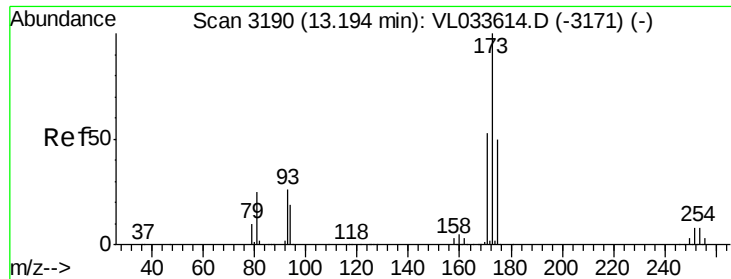
127 77.7 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.241 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1601865

Ion Ratio Lower Upper

173 100

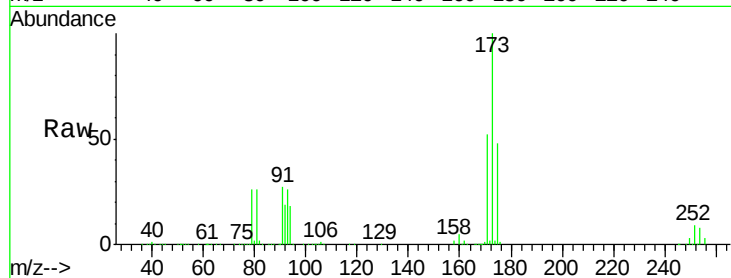
175 48.3 39.0 58.6

171 51.5 41.6 62.4

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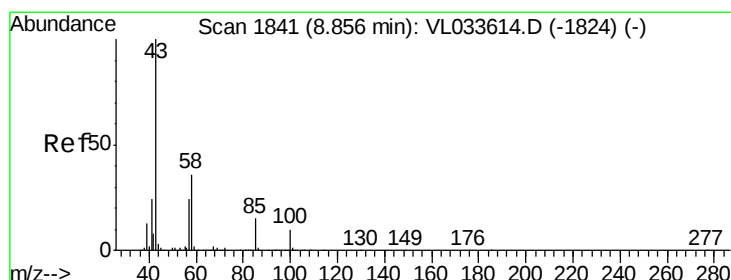
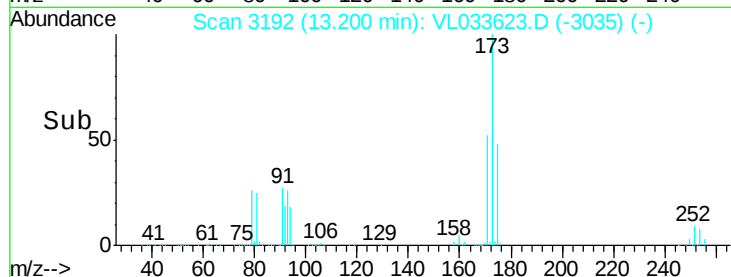
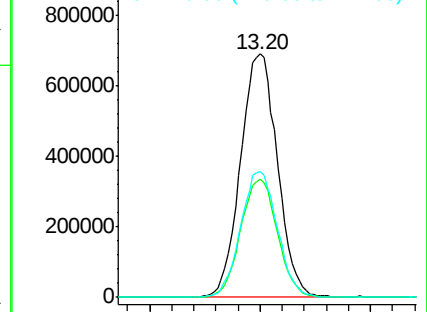
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.182 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VL033623.D

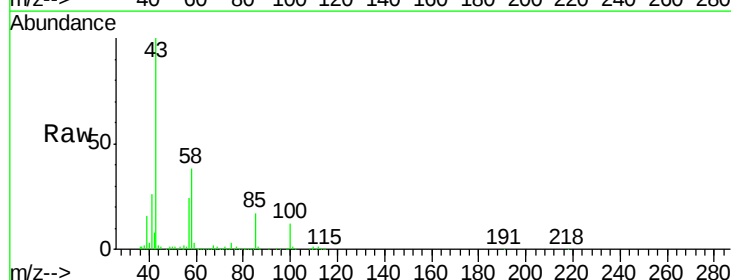
Acq: 2 May 2019 10:26

Tgt Ion: 43 Resp: 2544612

Ion Ratio Lower Upper

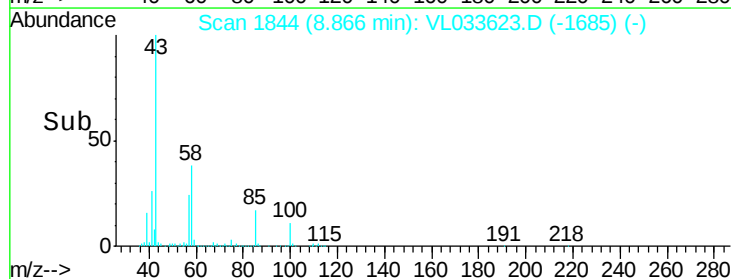
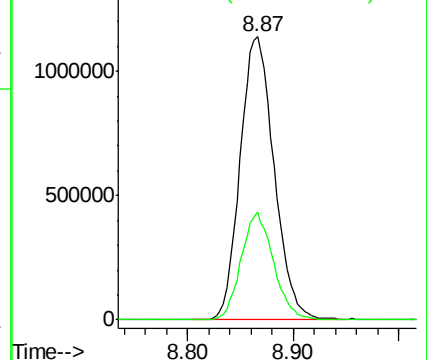
43 100

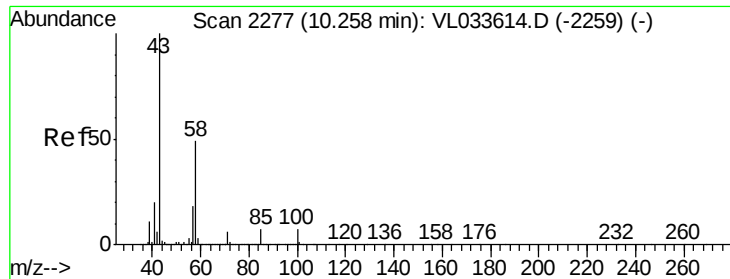
58 36.4 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 8.790 ppbv

RT: 10.26 min Scan# 2279

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2138805

Ion Ratio Lower Upper

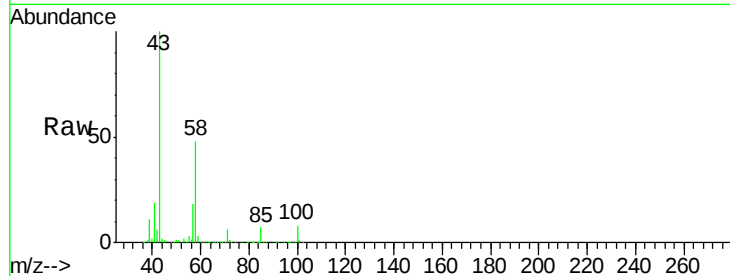
43 100

58 48.8 38.5 57.7

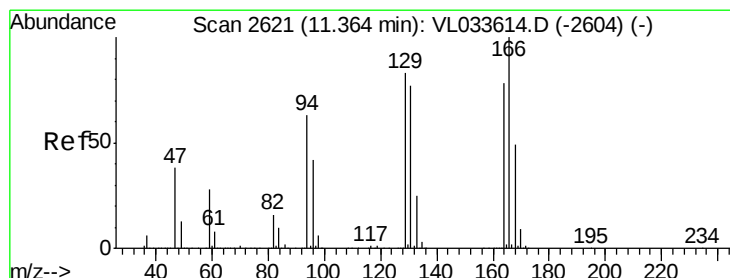
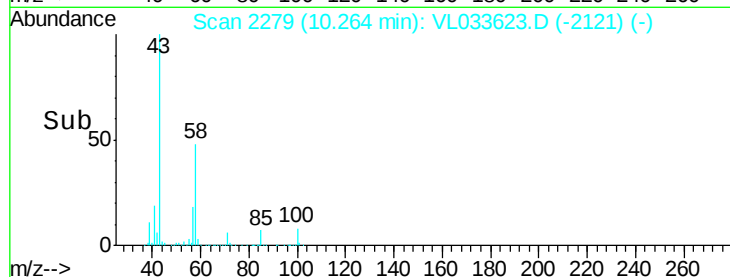
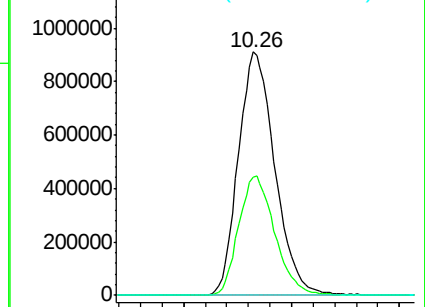
98 0.2 0.3 0.5#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.999 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. 0.00 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Tgt Ion: 164 Resp: 943652

Ion Ratio Lower Upper

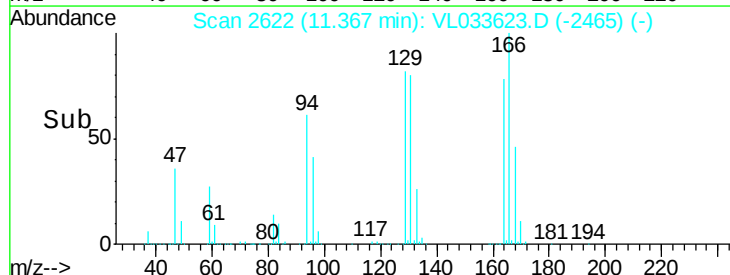
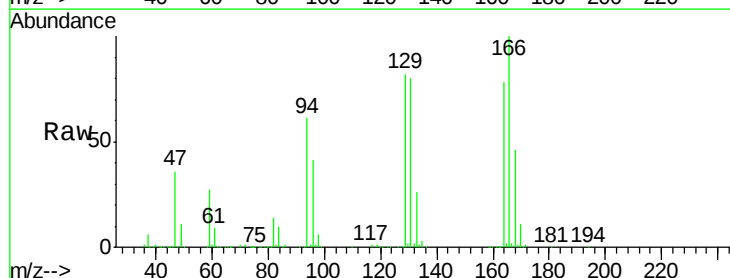
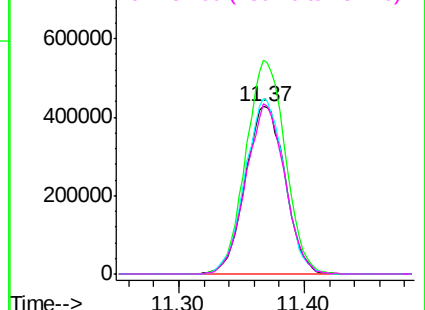
164 100

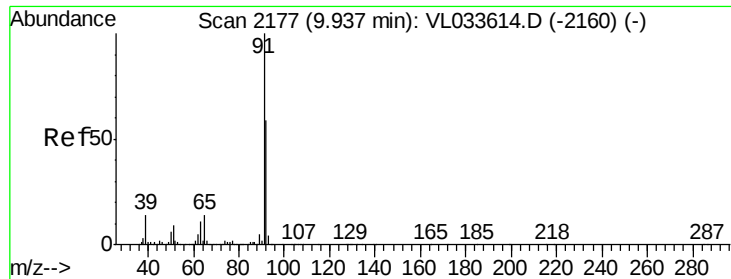
166 127.5 102.2 153.4

129 104.8 84.4 126.6

131 101.6 79.2 118.8

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.180 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2843732

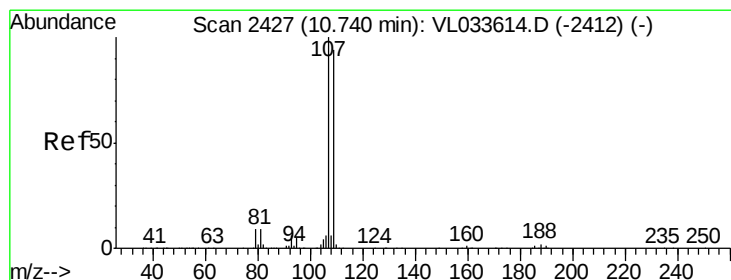
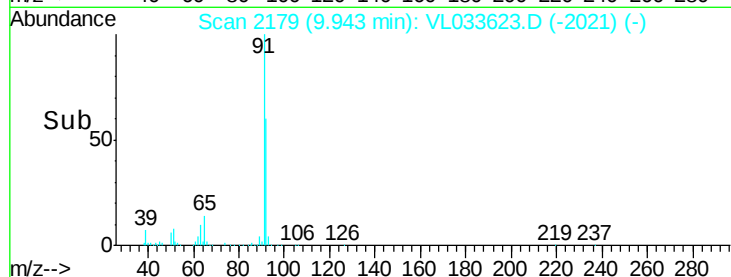
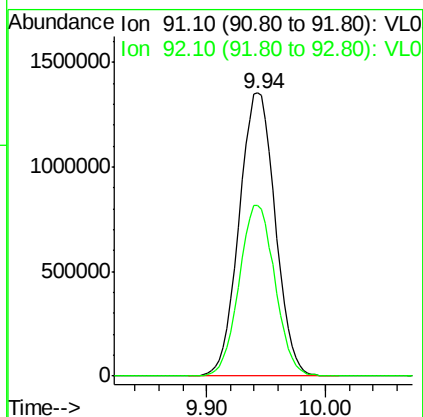
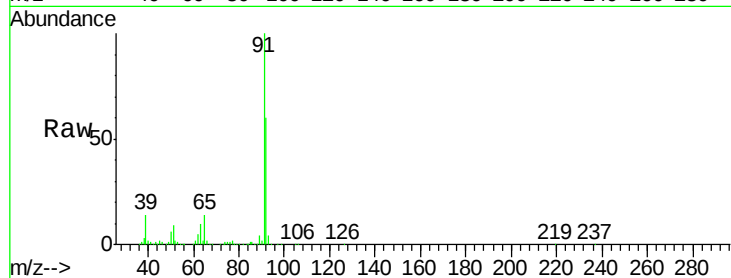
Ion Ratio Lower Upper

91 100

92 60.0 47.8 71.6

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#54

1,2-Dibromoethane

Concen: 9.639 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.02 min

Lab File: VL033623.D

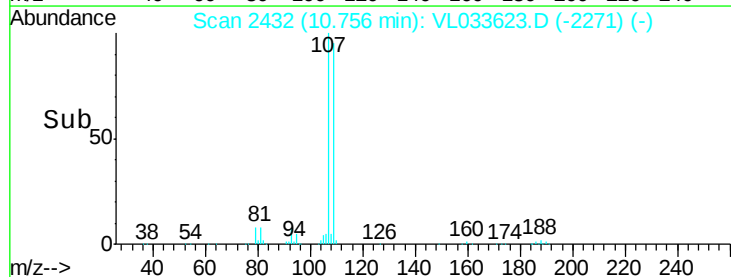
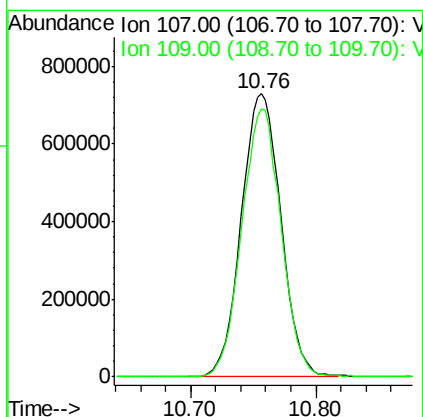
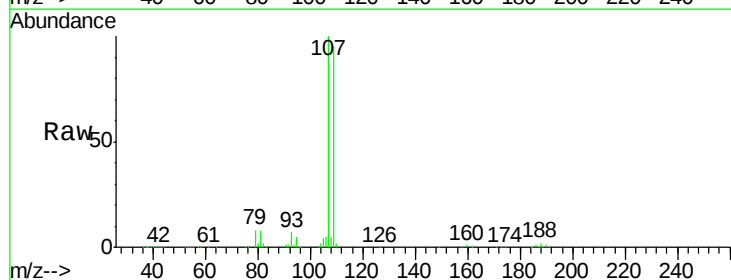
Acq: 2 May 2019 10:26

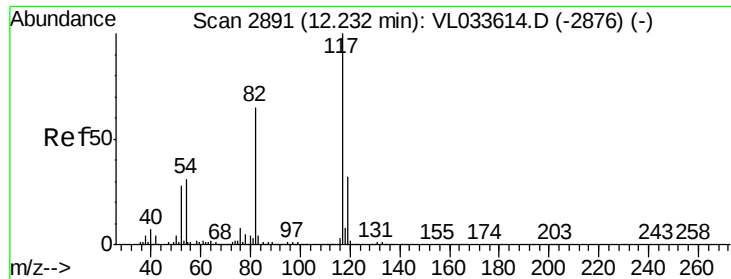
Tgt Ion: 107 Resp: 1600484

Ion Ratio Lower Upper

107 100

109 94.5 75.1 112.7





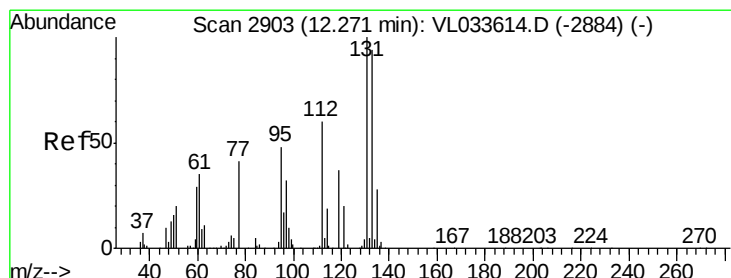
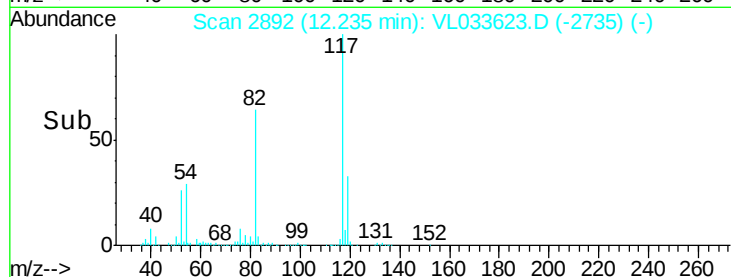
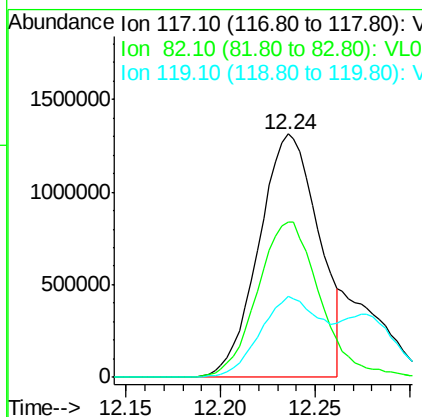
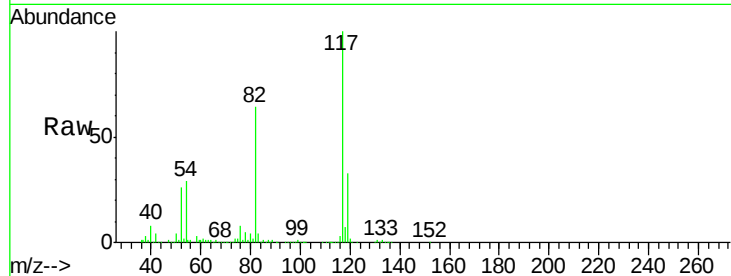
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2892
Delta R.T. 0.00 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.4	52.6	78.8
119	58.2	28.3	42.5#

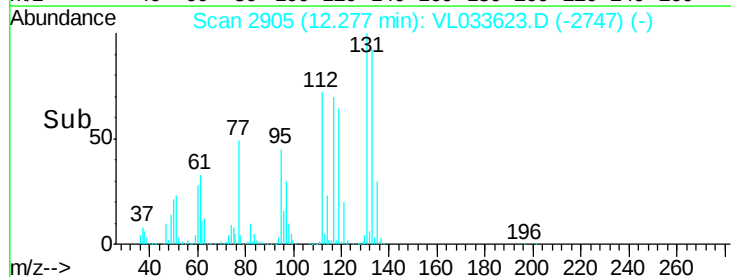
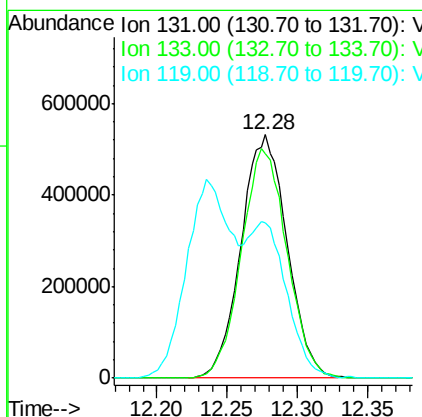
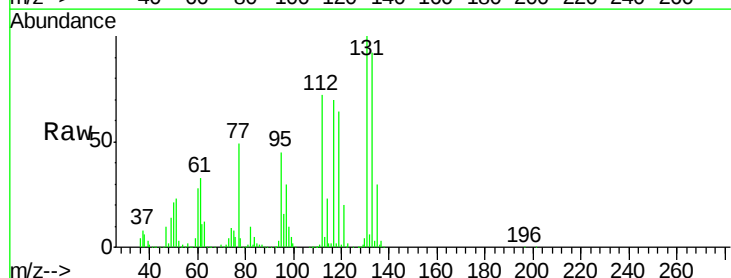
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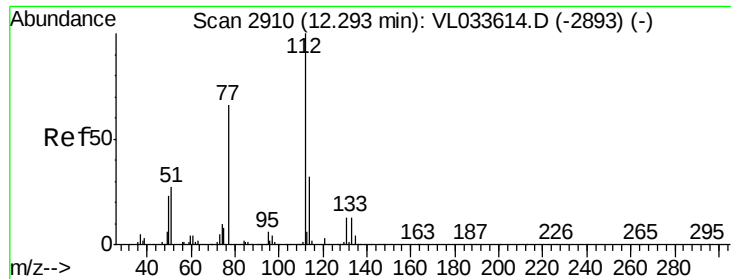
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.798 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.8	76.4	114.6
119	137.9	40.9	61.3#





#57

Chlorobenzene

Concen: 9.842 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

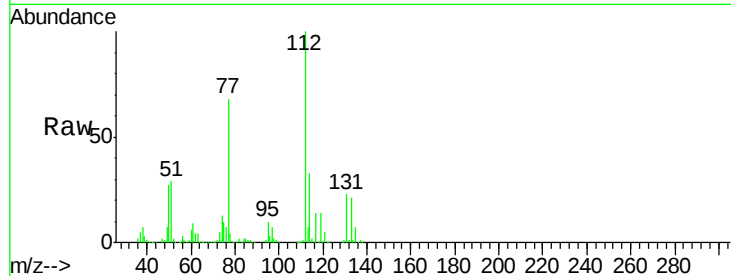
ClientSampleId :

VSTDCCC010

Tot Ion:	112	Resp:	2169562
Ion	Ratio	Lower	Upper
112	100		
77	68.3	53.6	80.4
114	32.8	29.1	35.5

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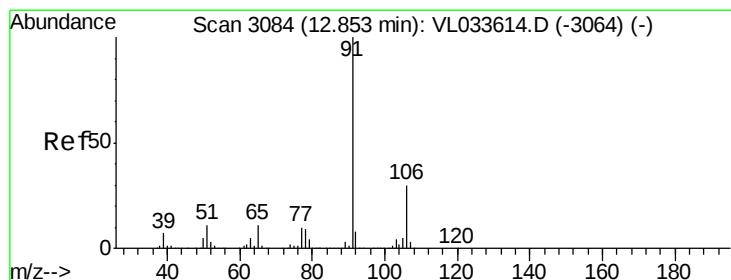
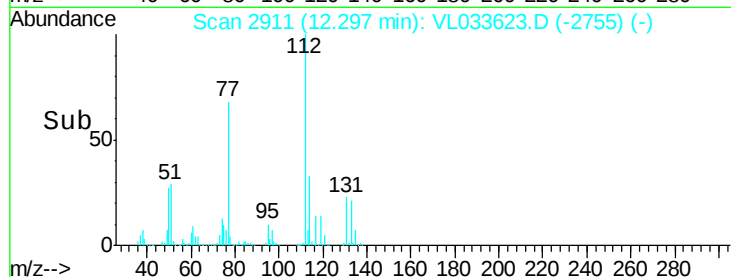
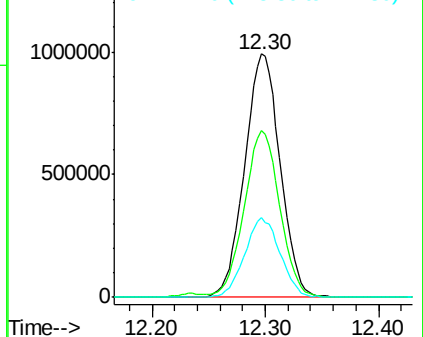
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.724 ppbv

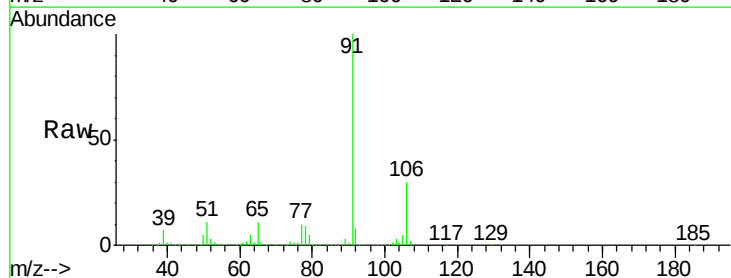
RT: 12.86 min Scan# 3087

Delta R.T. 0.01 min

Lab File: VL033623.D

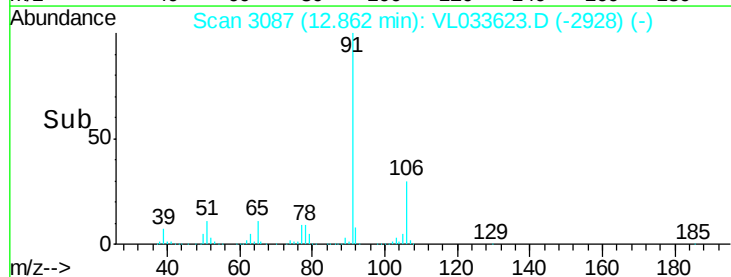
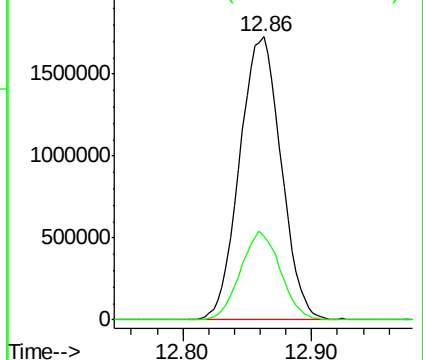
Acq: 2 May 2019 10:26

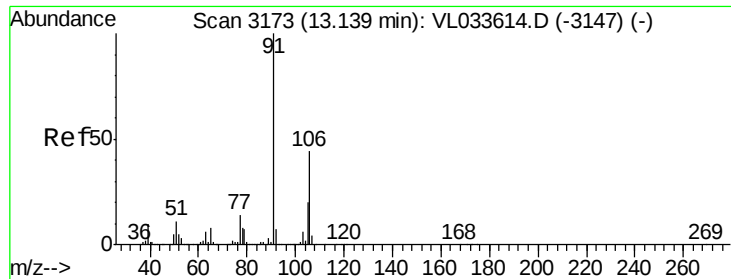
Tgt Ion:	91	Resp:	3877429
Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.6	35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 22.635 ppbv m

RT: 13.15 min Scan# 3175

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 6440361

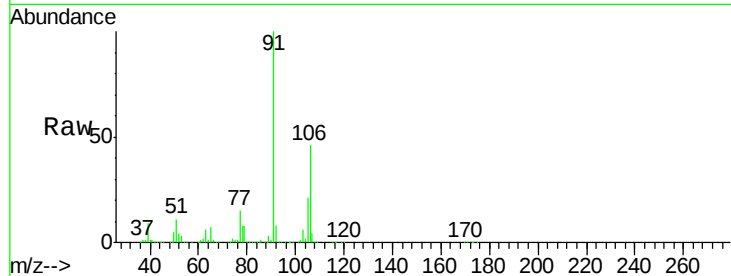
Ion Ratio Lower Upper

91 100

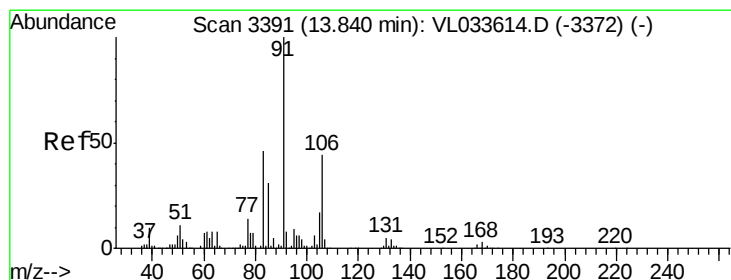
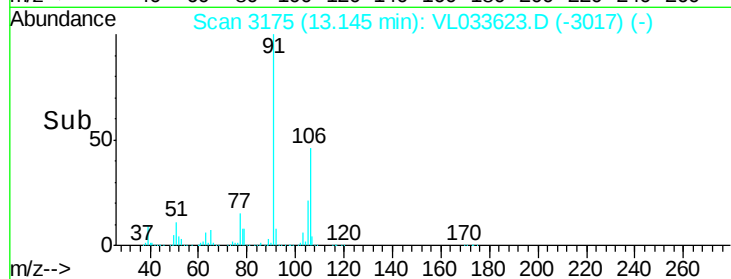
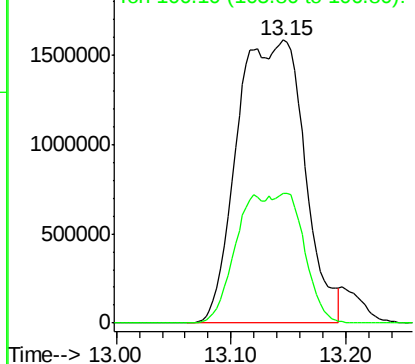
106 44.9 0.0 0.0#

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Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 11.037 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. 0.01 min

Lab File: VL033623.D

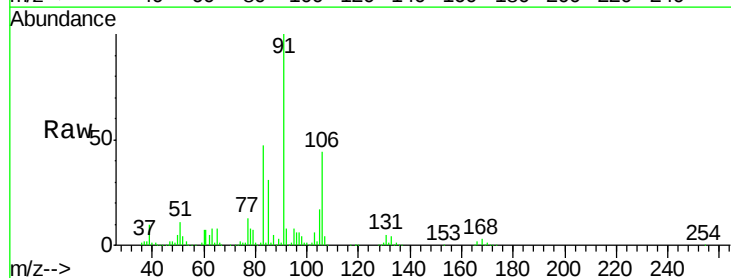
Acq: 2 May 2019 10:26

Tgt Ion: 91 Resp: 3172349

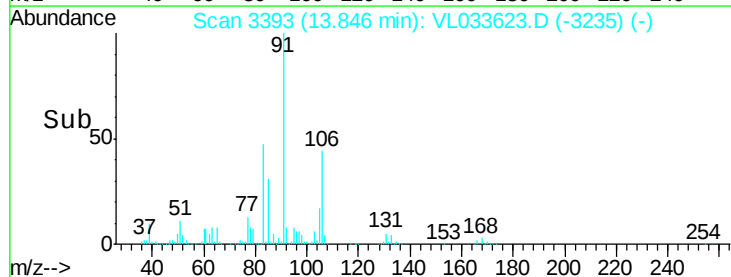
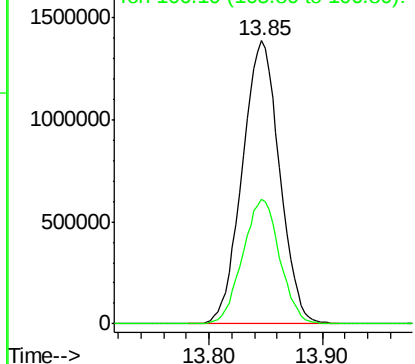
Ion Ratio Lower Upper

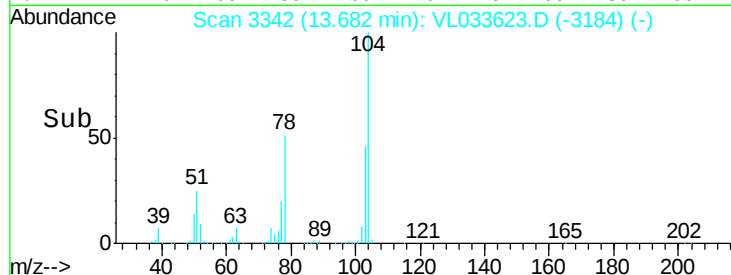
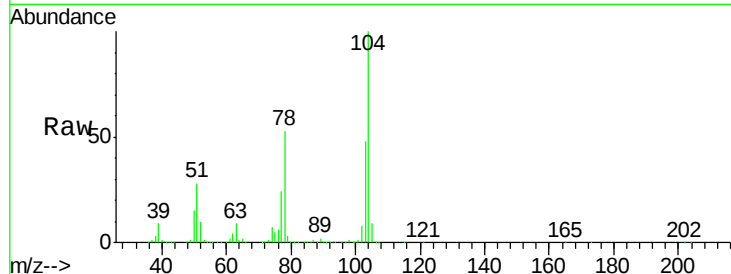
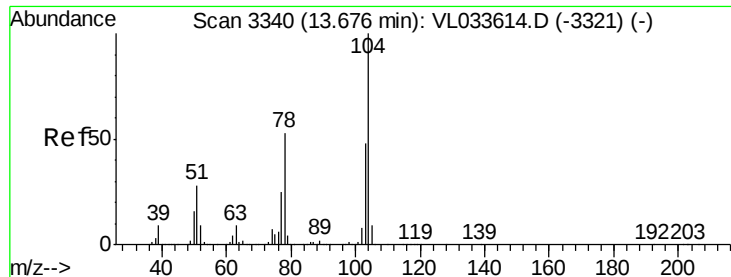
91 100

106 43.9 21.8 65.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





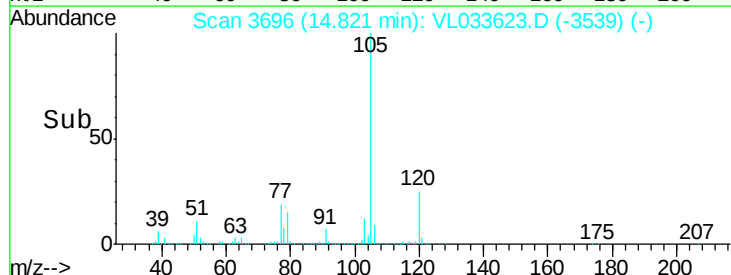
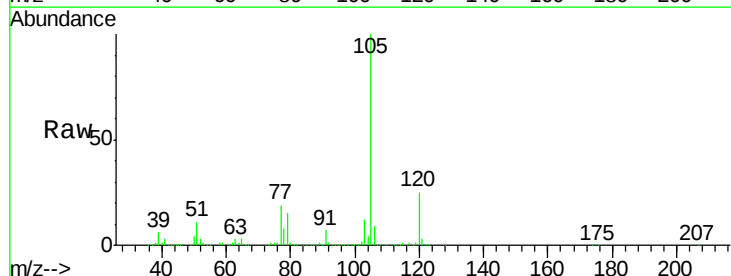
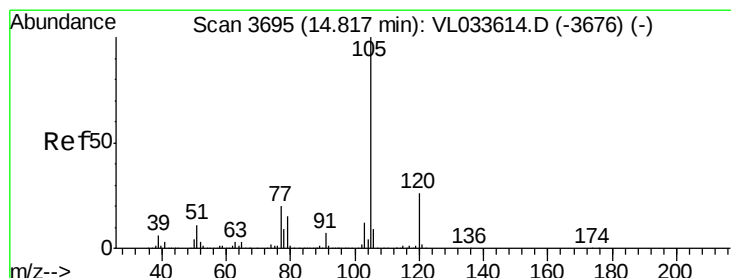
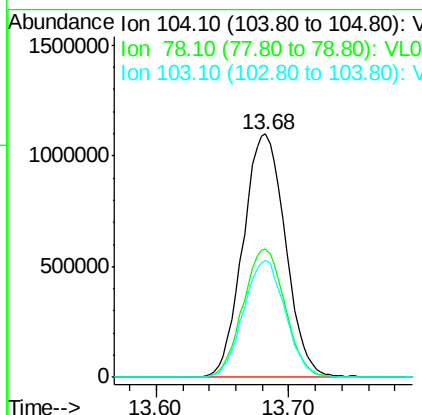
#61
Stvrene
Concen: 12.445 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tot Ion:104 Resp: 2444842
Ion Ratio Lower Upper
104 100
78 52.6 42.7 64.1
103 47.7 37.8 56.6

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

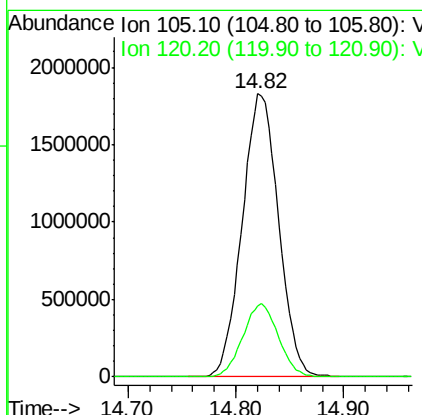
Manual Integrations
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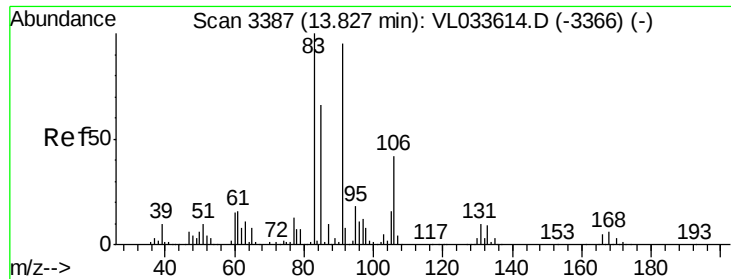
MMDadoda
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#62
Isopropylbenzene
Concen: 11.175 ppbv
RT: 14.82 min Scan# 3696
Delta R.T. 0.00 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion:105 Resp: 4292262
Ion Ratio Lower Upper
105 100
120 25.3 20.3 30.5





#63

1,1,2,2-Tetrachloroethane

Concen: 9.467 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2124251

Ion Ratio Lower Upper

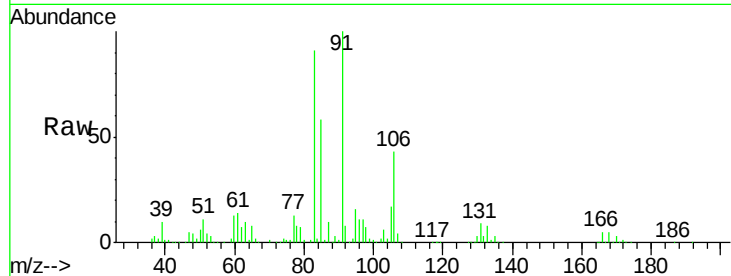
83 100

131 9.6 4.8 14.4

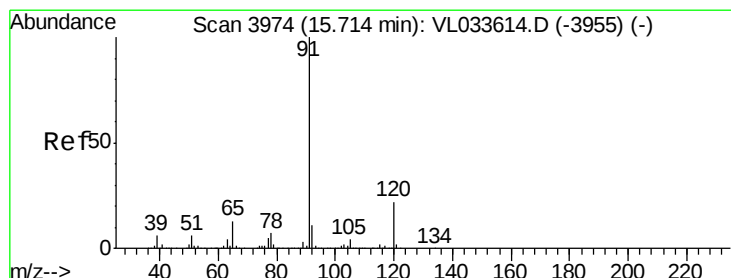
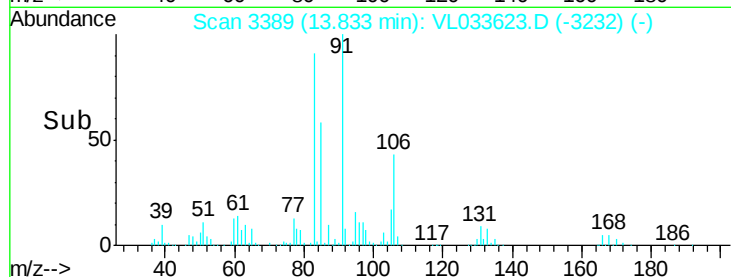
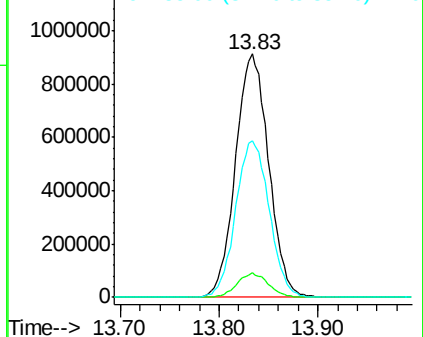
85 65.4 32.3 96.8

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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: 10.950 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. 0.00 min

Lab File: VL033623.D

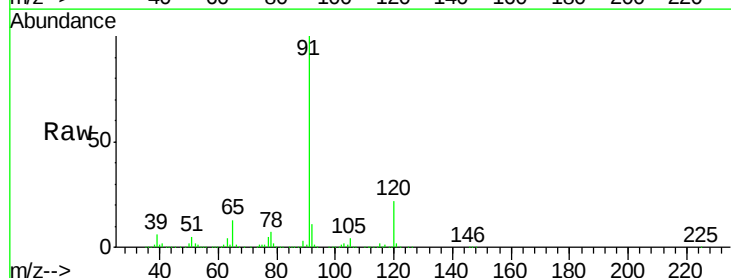
Acq: 2 May 2019 10:26

Tgt Ion:120 Resp: 1090916

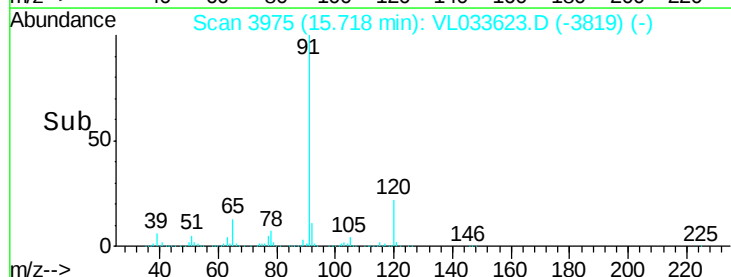
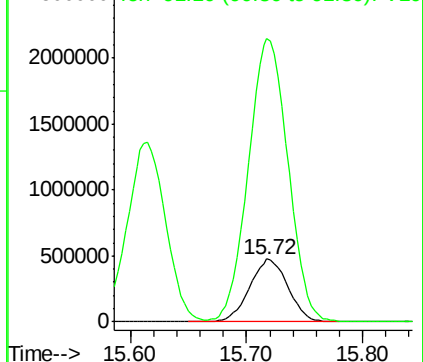
Ion Ratio Lower Upper

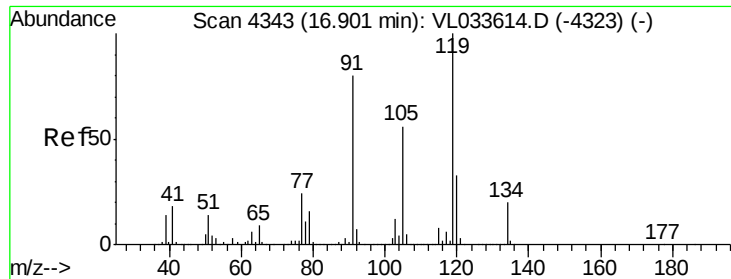
120 100

91 468.7 380.2 570.2



Abundance Ion 120.20 (119.90 to 120.90): VL0
Ion 91.10 (90.80 to 91.80): VL0





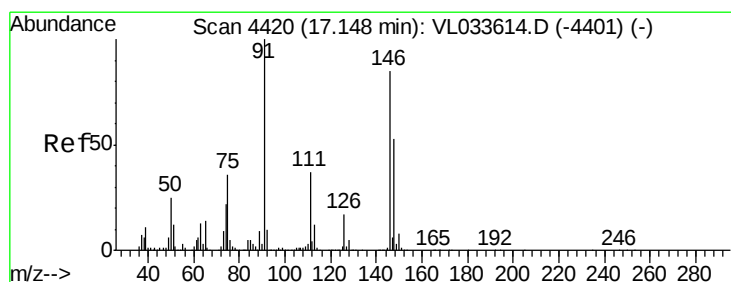
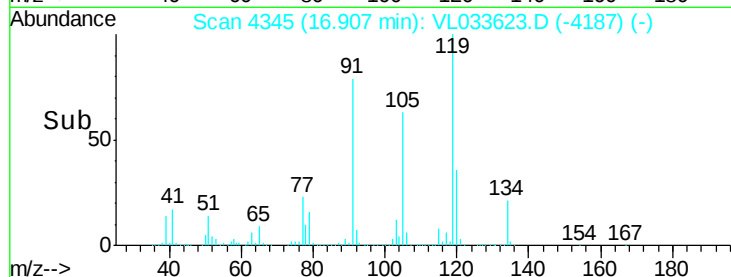
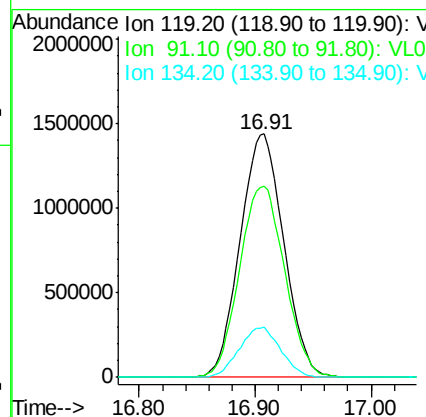
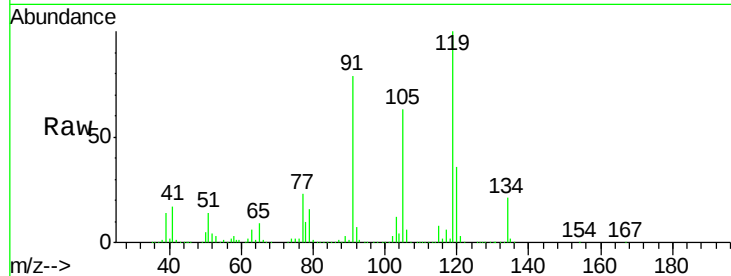
#65
tert-Butylbenzene
Concen: 10.464 ppbv
RT: 16.91 min Scan# 4345
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 3758653
Ion Ratio Lower Upper
119 100
91 81.6 66.1 99.1
134 19.4 15.6 23.4

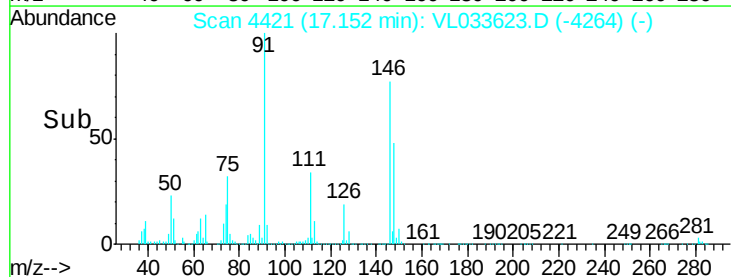
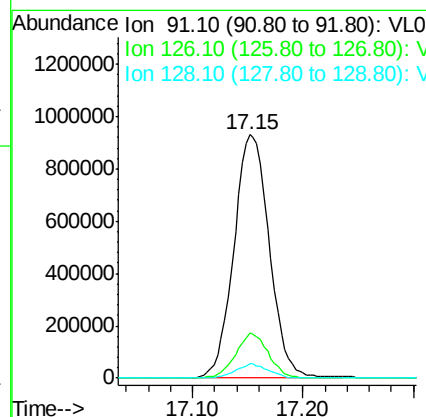
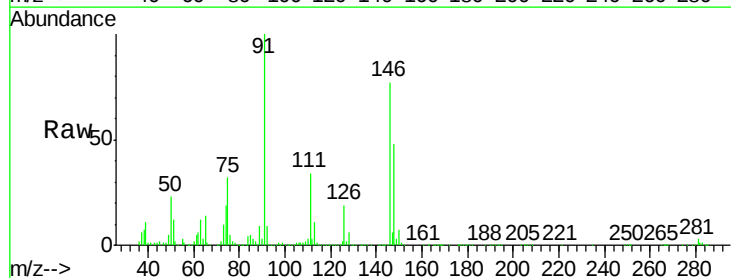
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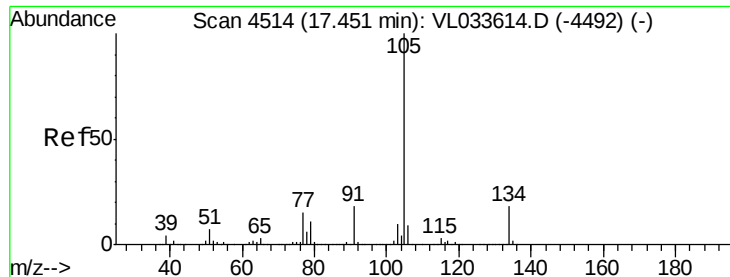
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#66
Benzyl Chloride
Concen: 12.660 ppbv
RT: 17.15 min Scan# 4421
Delta R.T. 0.00 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion: 91 Resp: 2062237
Ion Ratio Lower Upper
91 100
126 17.3 13.4 20.2
128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 10.457 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. 0.00 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 5275277

Ion Ratio Lower Upper

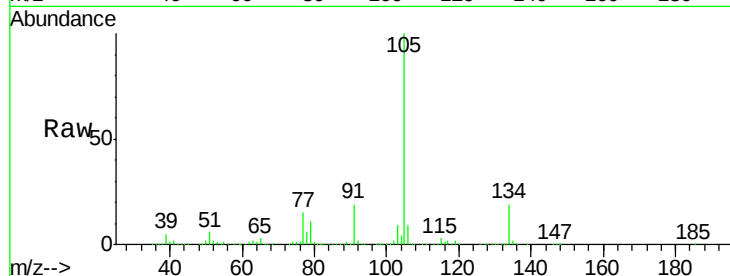
105 100

134 18.1 14.6 21.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

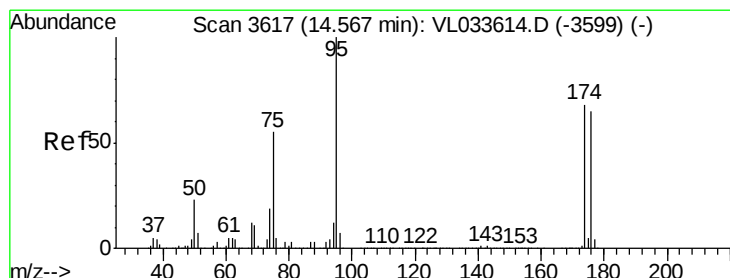
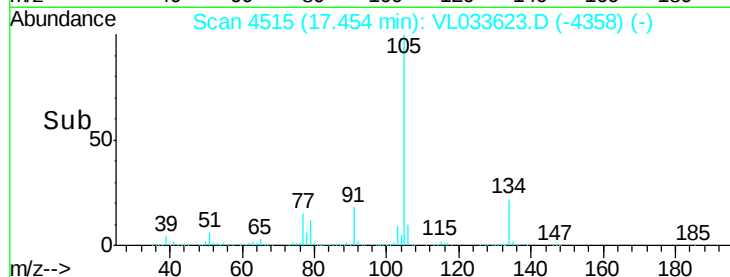
1000000

500000

0

17.40 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.782 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

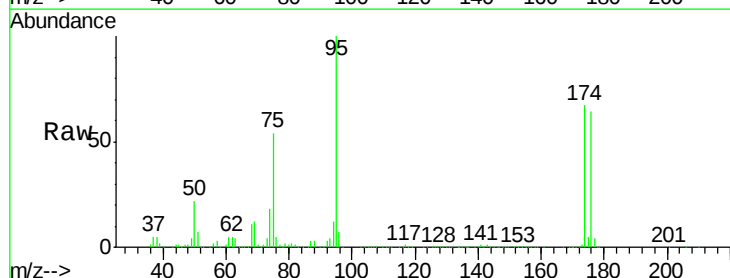
Tgt Ion: 95 Resp: 2357657

Ion Ratio Lower Upper

95 100

174 68.4 53.9 80.9

175 5.0 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

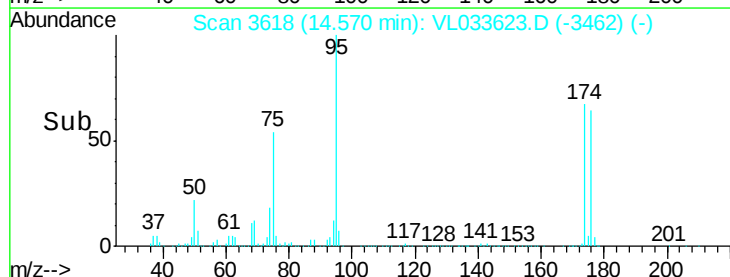
1000000

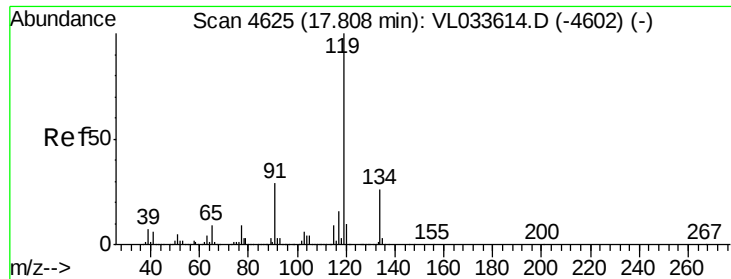
500000

0

14.50 14.60

Time-->





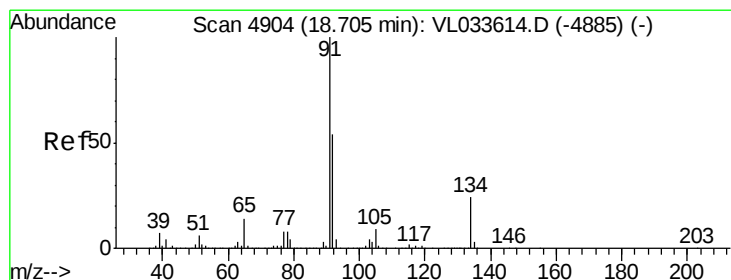
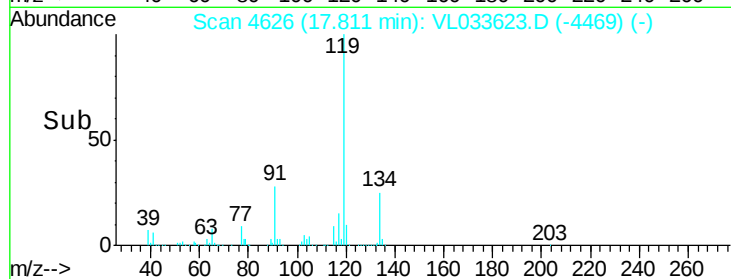
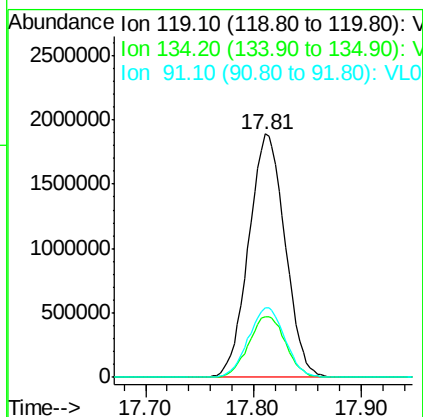
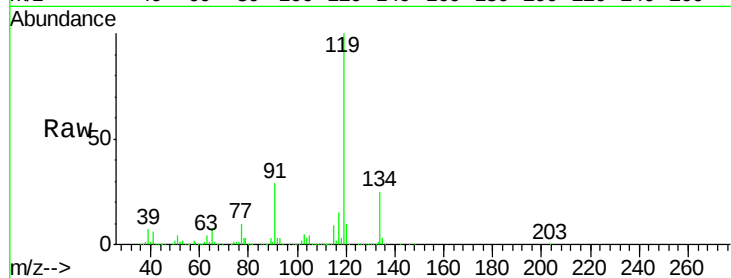
#69
p-Isopropyltoluene
Concen: 10.534 ppbv
RT: 17.81 min Scan# 4626
Delta R.T. 0.00 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.2	30.2
91	28.8	23.3	34.9

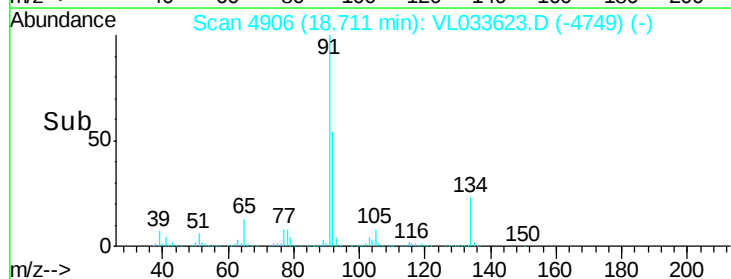
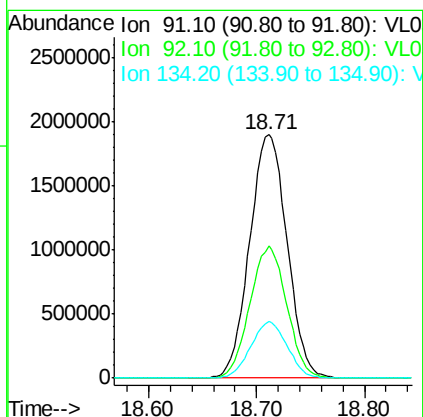
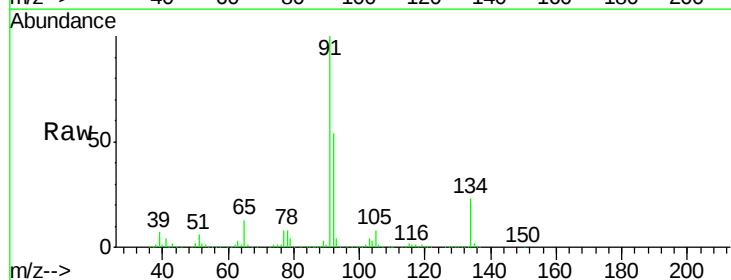
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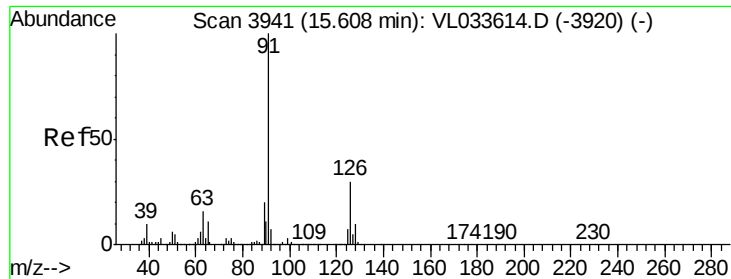
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#70
n-Butylbenzene
Concen: 10.004 ppbv
RT: 18.71 min Scan# 4906
Delta R.T. 0.01 min
Lab File: VL033623.D
Acq: 2 May 2019 10:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	42.6	64.0
134	22.7	18.0	27.0





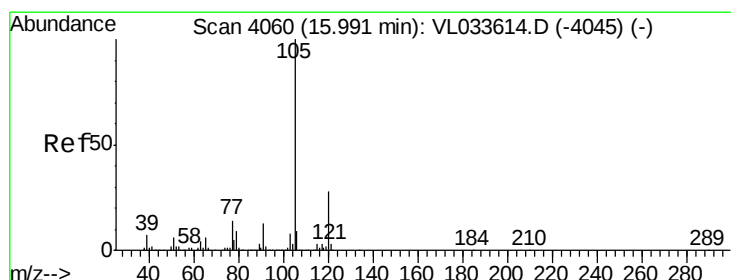
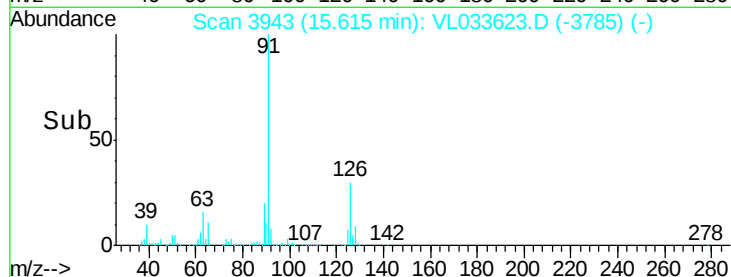
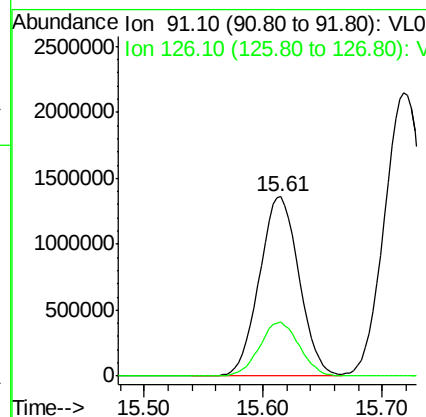
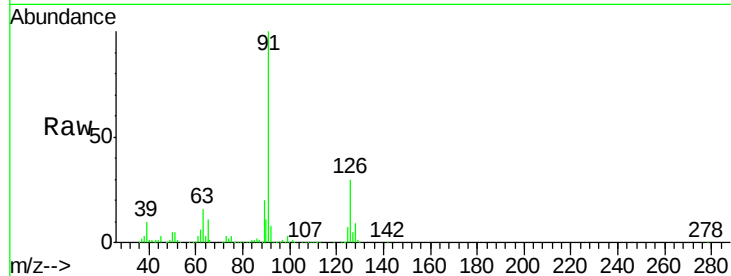
#71
 2-Chlorotoluene
 Concen: 10.930 ppbv
 RT: 15.61 min Scan# 3943
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 3139950
 Ion Ratio Lower Upper
 91 100
 126 30.2 11.9 47.7

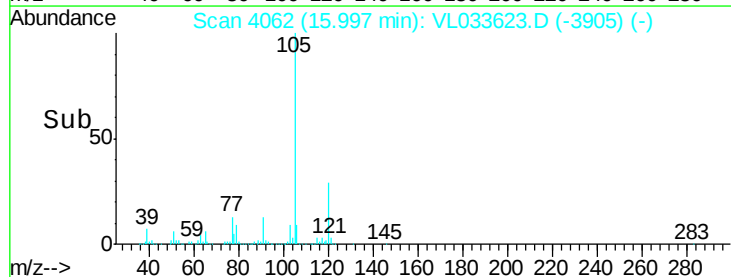
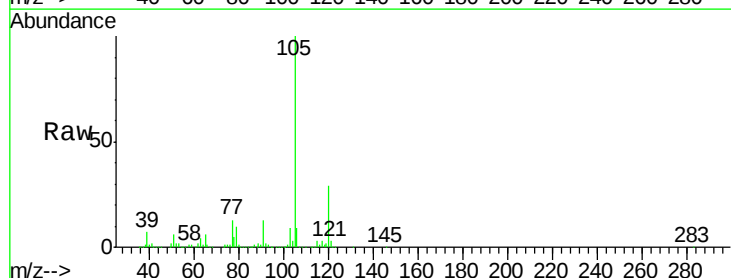
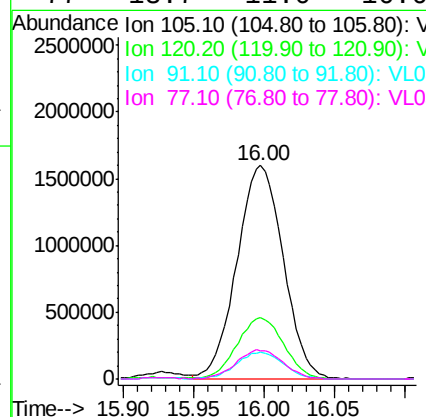
Manual Integrations
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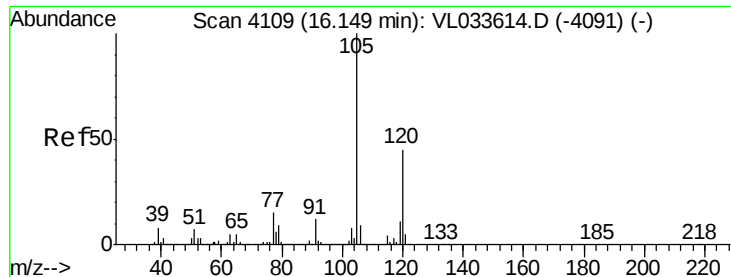
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#72
 4-Ethyltoluene
 Concen: 11.217 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. 0.01 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Tgt Ion: 105 Resp: 3672122
 Ion Ratio Lower Upper
 105 100
 120 29.0 23.2 34.8
 91 12.7 10.3 15.5
 77 13.7 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 10.769 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3466975

Ion Ratio Lower Upper

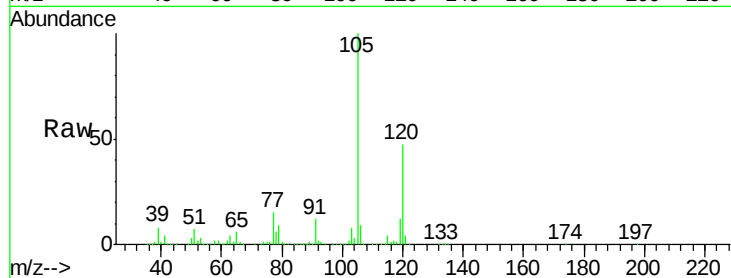
105 100

120 47.2 36.2 54.2

Manual Integrations
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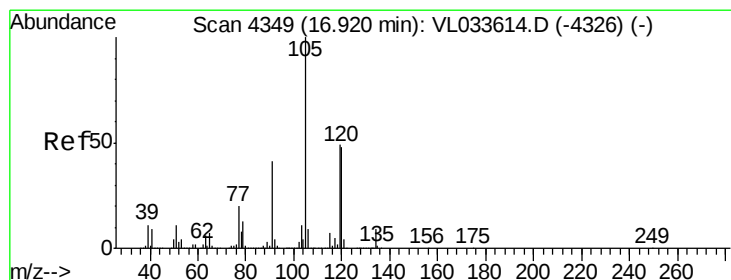
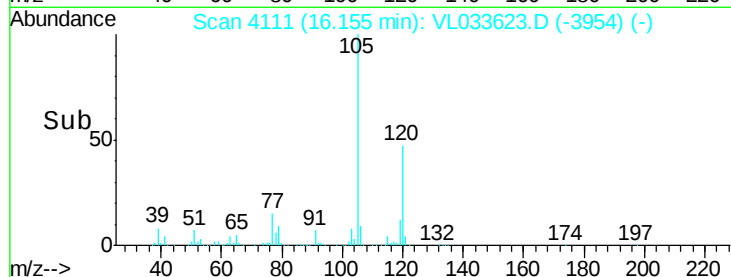
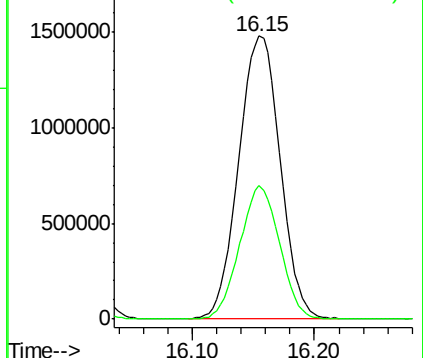
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.062 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Tgt Ion:105 Resp: 3613214

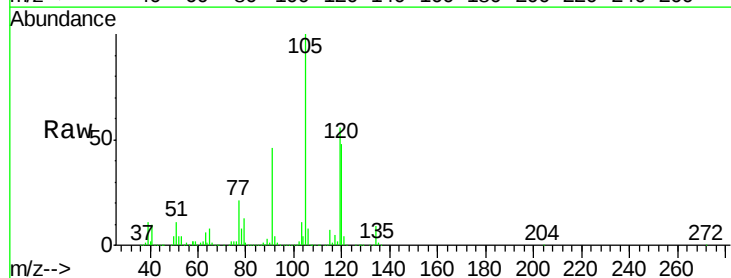
Ion Ratio Lower Upper

105 100

120 47.7 38.4 57.6

91 46.0 33.0 49.4

77 20.6 16.2 24.2

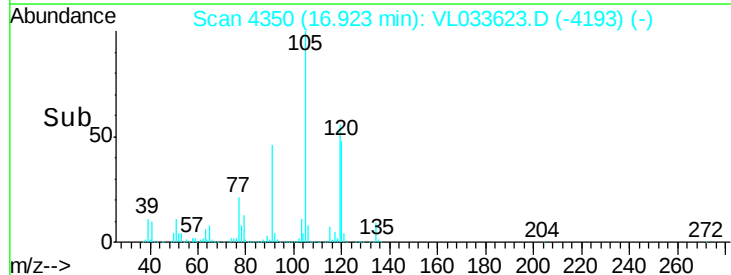
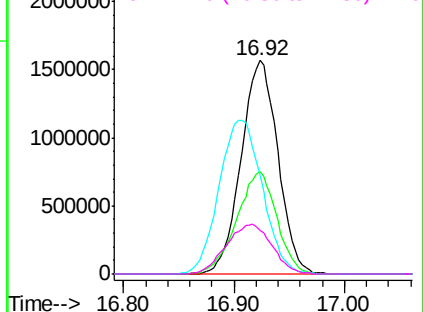


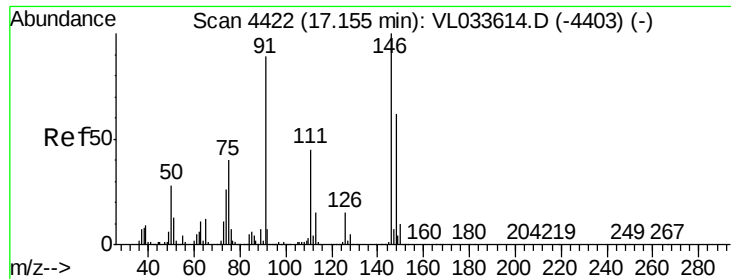
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 9.552 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2135185

Ion Ratio Lower Upper

146 100

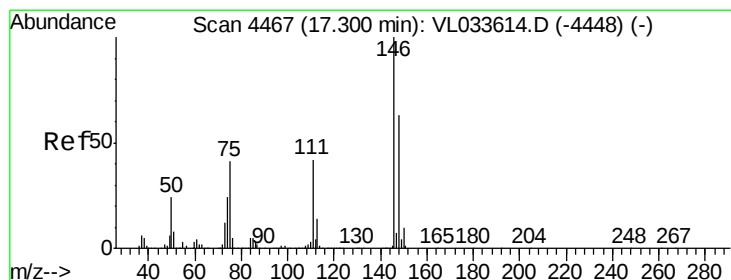
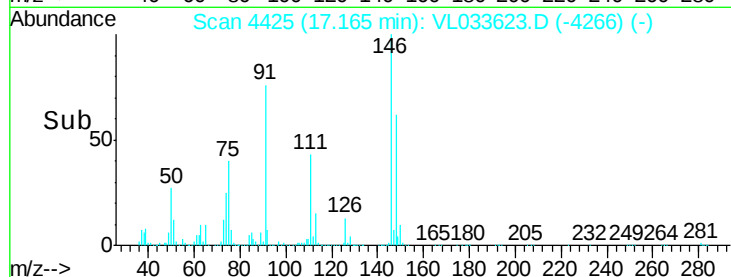
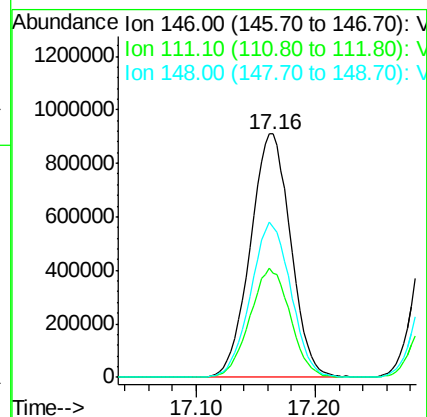
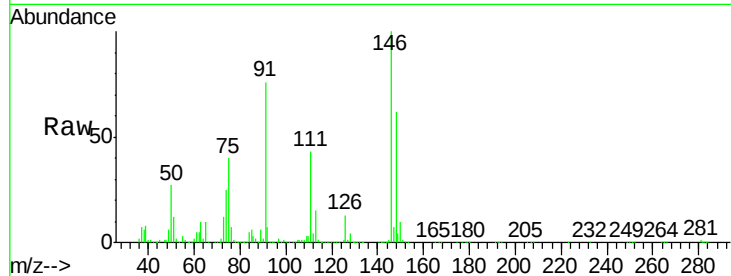
111 44.8 22.4 67.2

148 63.5 32.0 96.0

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 10.067 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

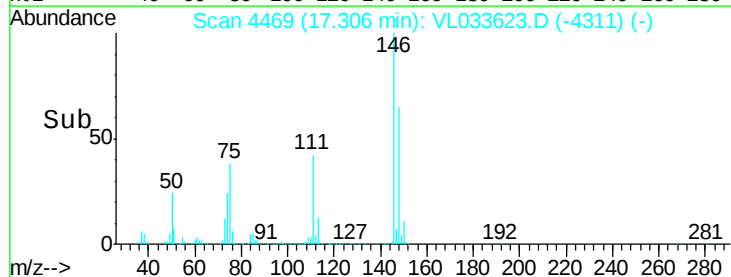
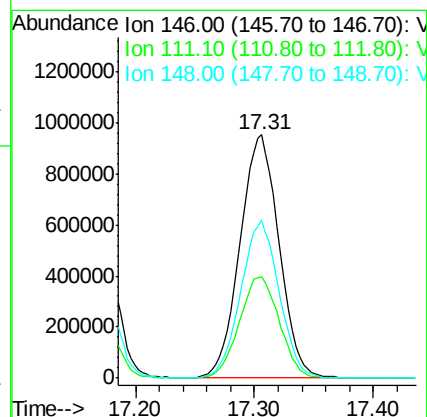
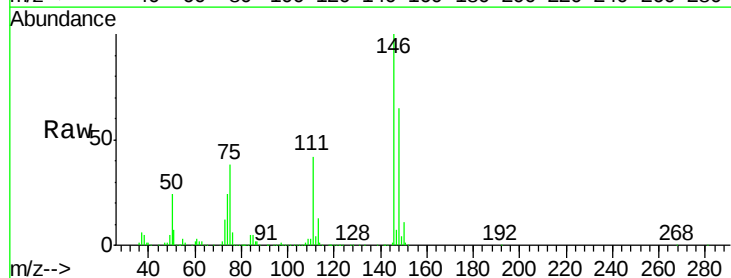
Tgt Ion:146 Resp: 2145652

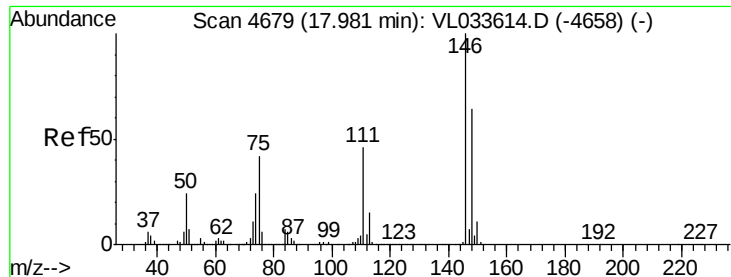
Ion Ratio Lower Upper

146 100

111 43.0 21.6 65.0

148 64.6 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 9.918 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2062348

Ion Ratio Lower Upper

146 100

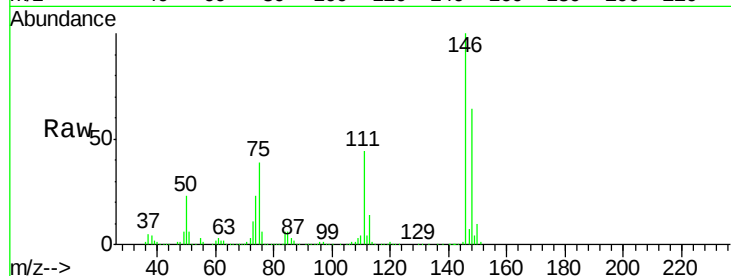
111 46.0 23.3 69.9

148 64.1 32.2 96.6

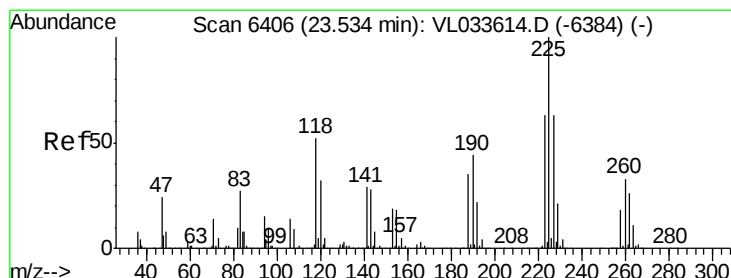
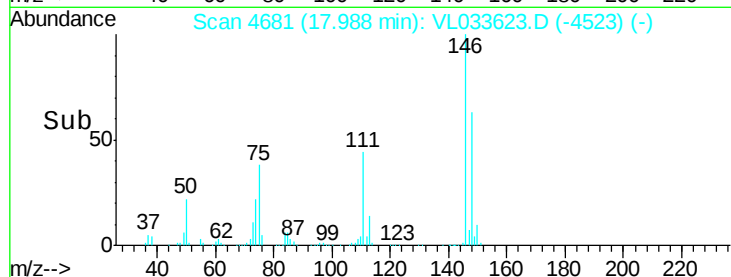
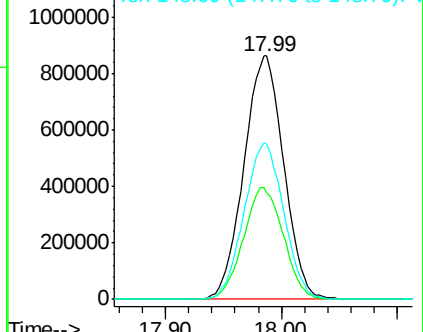
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.566 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

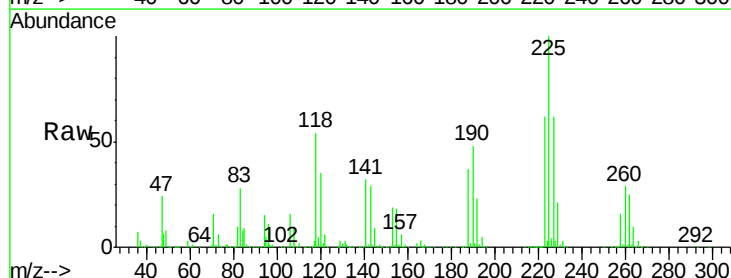
Tgt Ion:225 Resp: 1838903

Ion Ratio Lower Upper

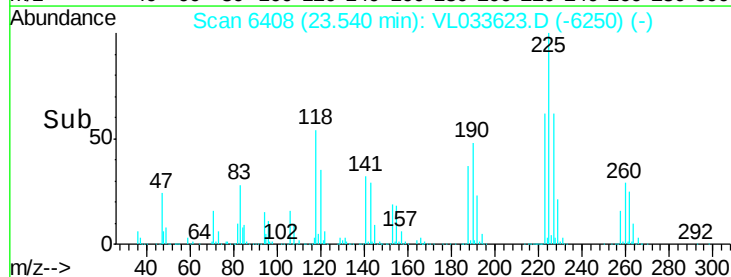
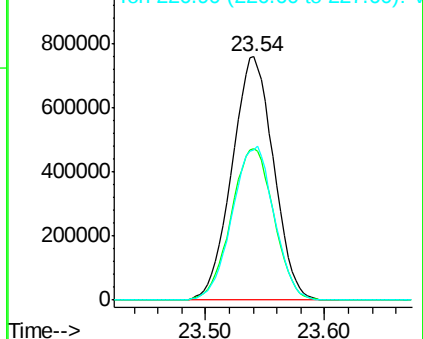
225 100

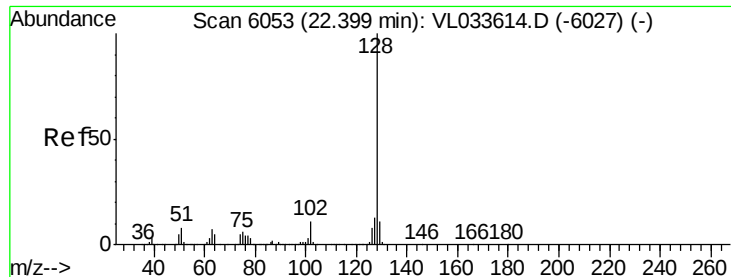
223 64.0 50.4 75.6

227 63.7 50.7 76.1



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





#79

Naphthalene

Concen: 12.850 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 4255353

Ion Ratio Lower Upper

128 100

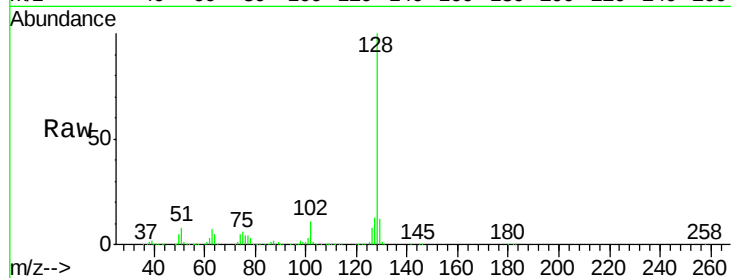
127 12.9 10.6 16.0

129 11.7 8.6 13.0

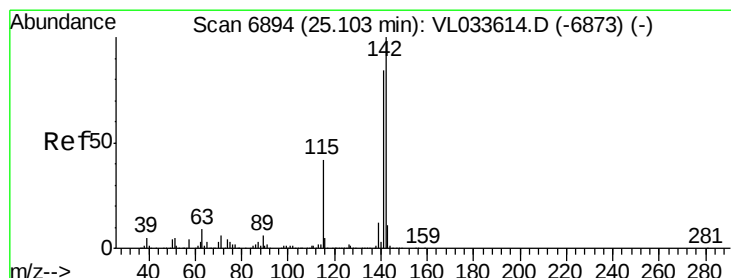
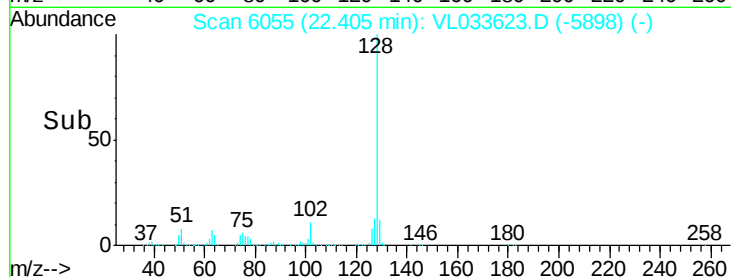
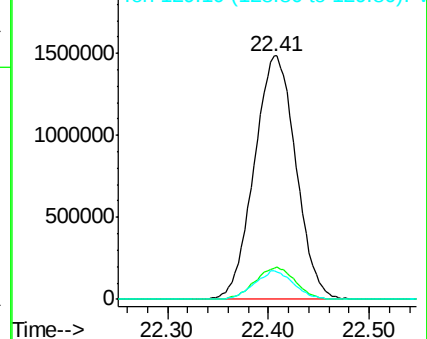
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 14.857 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. 0.01 min

Lab File: VL033623.D

Acq: 2 May 2019 10:26

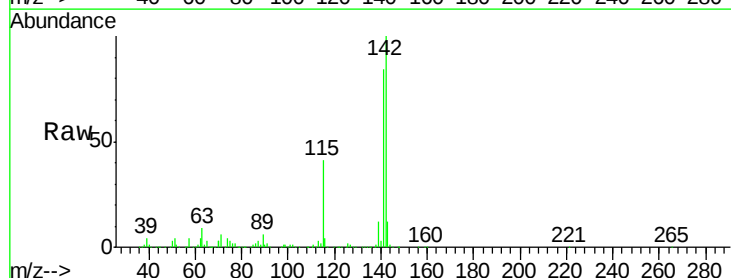
Tgt Ion:142 Resp: 2132913

Ion Ratio Lower Upper

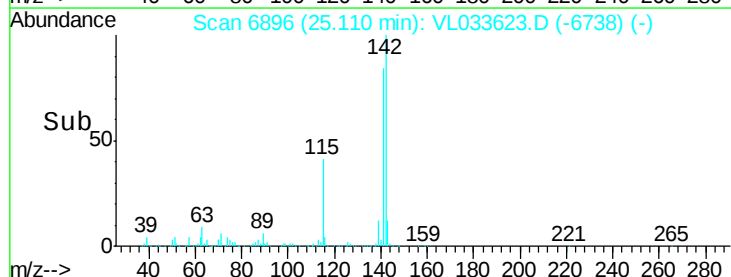
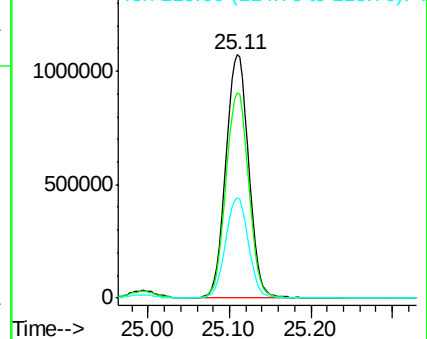
142 100

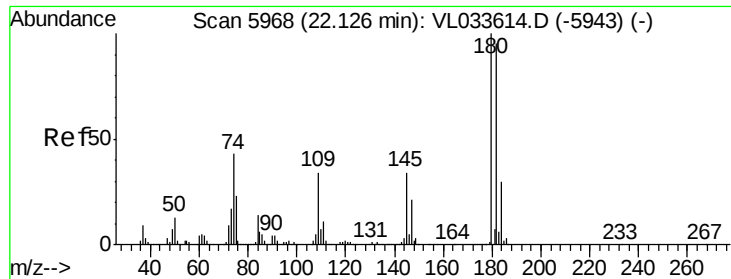
141 84.3 67.3 100.9

115 41.6 33.8 50.8



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: 11.304 ppbv
 RT: 22.13 min Scan# 5969
 Delta R.T. 0.00 min
 Lab File: VL033623.D
 Acq: 2 May 2019 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.2	114.2
184	30.9	24.5	36.7

Manual Integrations
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 5/4/2019 7:18:26 AM

