

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033498.D
 Acq On : 29 Mar 2019 12:08
 Operator : SY/AP
 Sample : VL0329ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:07 AM

Quant Time: Mar 30 01:49:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	857585	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2135451	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2296992	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1686731	9.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1566101	12.521	ppbv 99
3) Chlorodifluoromethane	3.01	51	1037805	10.511	ppbv 99
4) Chloromethane	3.17	50	545372	10.439	ppbv 100
5) Vinyl Chloride	3.29	62	545819	10.633	ppbv 94
6) Bromomethane	3.51	94	357591	10.840	ppbv 93
7) Chloroethane	3.60	64	200387	10.489	ppbv 97
8) Dichlorotetrafluoroethane	3.22	85	1392516	10.449	ppbv 99
9) Propene	3.03	41	459796	11.089	ppbv 99
10) Heptane	8.25	43	1214262	10.956	ppbv 99
11) Trichlorofluoromethane	4.00	101	1529638	9.923	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1071517	10.349	ppbv 98
13) Ethanol	3.64	45	104910m	9.778	ppbv
14) Bromoethene	3.79	108	448823	10.869	ppbv 99
15) Acetone	3.90	43	976145	9.466	ppbv 99
16) 1,3-Butadiene	3.36	39	457765	11.192	ppbv 93
17) tert-Butyl alcohol	4.35	59	177744	9.375	ppbv 99
18) 1,1-Dichloroethene	4.35	96	473224	10.641	ppbv 98
19) Isopropyl Alcohol	4.02	45	609834	9.350	ppbv 99
20) Methylene Chloride	4.41	84	409265	9.350	ppbv 94
21) Allyl Chloride	4.48	41	703803	10.797	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	484940	10.451	ppbv 94
23) Vinyl Acetate	5.15	43	1627164	11.087	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1167827	10.475	ppbv 99
25) Ethyl Acetate	5.77	43	1994487	10.425	ppbv 99
26) Hexane	5.78	57	904433	10.632	ppbv 97
27) Carbon Disulfide	4.62	76	1158760	11.455	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1358079	11.084	ppbv 100
29) Chloroform	5.85	83	1534464	10.523	ppbv 100
30) Cyclohexane	7.25	84	776655	11.541	ppbv 97
31) cis-1,2-Dichloroethene	5.64	61	936135	11.069	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	1496480	10.777	ppbv 99
34) 2-Butanone	5.33	43	1322959	10.311	ppbv 99
35) Carbon Tetrachloride	7.14	117	1603794	10.603	ppbv 99
36) Benzene	7.01	78	1936277	10.806	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1148226	9.561	ppbv 99
38) Trichloroethene	7.96	130	769243	11.408	ppbv 96
39) 1,2-Dichloropropane	7.74	63	723332	10.305	ppbv 97
40) 1,4-Dioxane	7.95	88	243858	9.741	ppbv # 1
41) Tetrahydrofuran	6.15	42	741984	10.514	ppbv 96
42) Bromodichloromethane	7.92	83	1697737	10.379	ppbv 100
43) Methyl Methacrylate	8.14	69	797481	10.961	ppbv 99

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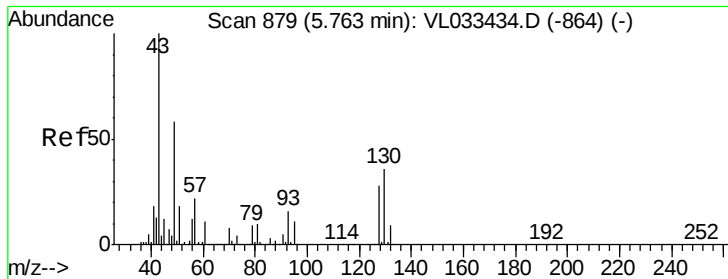
Manual Integrations
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MMDadoda
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3192063	10.195	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1065376	11.927	ppbv	95
46) cis-1,3-Dichloropropene	8.84	75	1225423	11.747	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	833709	10.460	ppbv	99
48) Dibromochloromethane	10.45	129	1497975	11.143	ppbv	99
49) Bromoform	13.20	173	1364886	10.627	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1968108	10.476	ppbv	99
51) 2-Hexanone	10.27	43	1559231	11.126	ppbv	99
52) Tetrachloroethene	11.38	164	772268	11.423	ppbv	96
53) Toluene	9.95	91	2344759	11.261	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1348008	10.813	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1043015	9.908	ppbv	99
57) Chlorobenzene	12.30	112	1784506	10.005	ppbv	99
58) Ethyl Benzene	12.87	91	3307656	10.783	ppbv	99
59) m/p-Xylene	13.13	91	5536844m	20.209	ppbv	
60) o-Xylene	13.85	91	2713272	10.241	ppbv	99
61) Styrene	13.69	104	2054346	11.298	ppbv	98
62) Isopropylbenzene	14.83	105	3840318	10.236	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1884142	9.658	ppbv	99
64) n-propylbenzene	15.73	120	995628	10.458	ppbv	96
65) tert-Butylbenzene	16.91	119	3461729	10.471	ppbv	99
66) Benzyl Chloride	17.16	91	1843307	11.990	ppbv	99
67) sec-Butylbenzene	17.46	105	4895312	10.412	ppbv	100
69) p-Isopropyltoluene	17.82	119	4071855	10.637	ppbv	100
70) n-Butylbenzene	18.72	91	4278998	10.550	ppbv	100
71) 2-Chlorotoluene	15.62	91	2969058	10.407	ppbv	99
72) 4-Ethyltoluene	16.00	105	3205007	10.762	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3075652	10.792	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3182825	10.419	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1887699	9.998	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1896501	10.310	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1843346	10.290	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1386311	11.691	ppbv	99
79) Naphthalene	22.41	128	3163947	12.100	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1409593	16.062	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1624494	11.200	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033498.D

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ClientSampleId :

VL0329ABS01

Tot Ion: 49 Resp: 857585

Ion Ratio Lower Upper

49 100

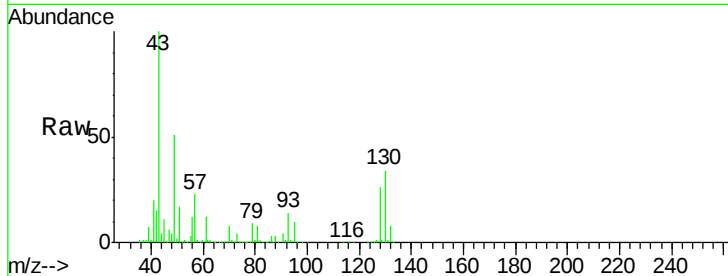
128 50.1 24.0 72.0

130 63.9 31.2 93.6

Manual Integrations
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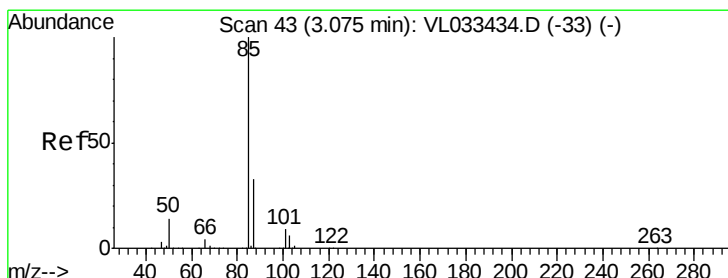
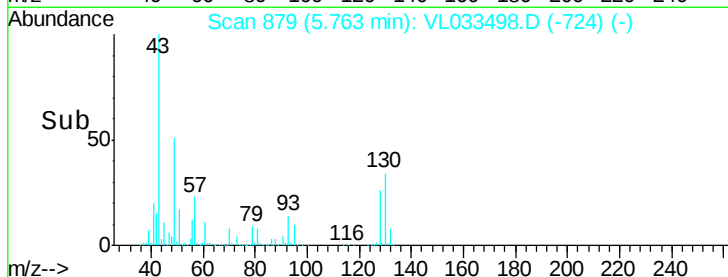
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.76

Time-->



#2

Dichlorodifluoromethane

Concen: 12.521 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033498.D

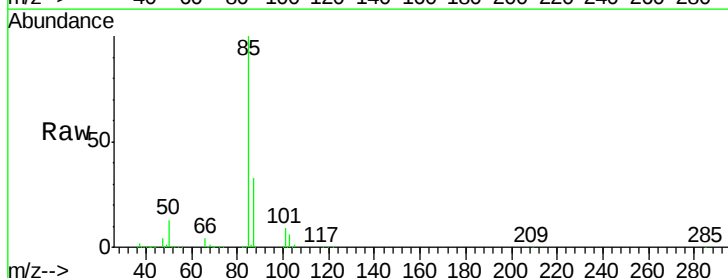
Acq: 29 Mar 2019 12:08

Tgt Ion: 85 Resp: 1566101

Ion Ratio Lower Upper

85 100

87 32.6 26.7 40.1

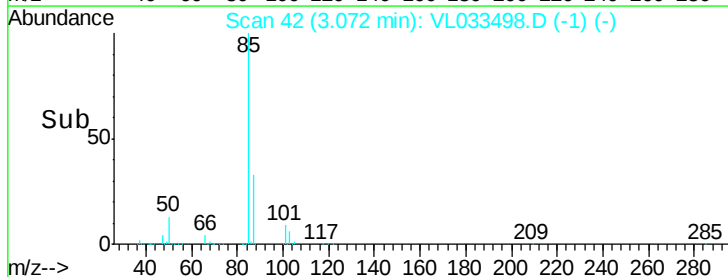


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.07

Time-->





#3

Chlorodifluoromethane

Concen: 10.511 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 51 Resp: 1037805

Ion Ratio Lower Upper

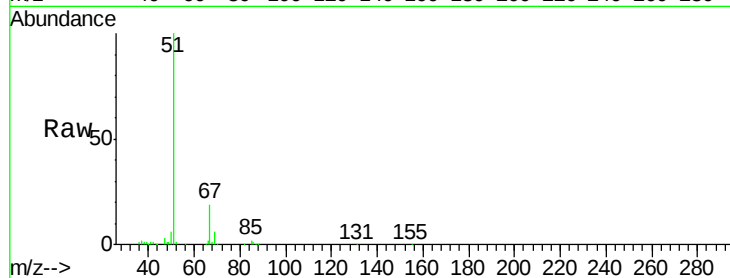
51 100

67 19.2 15.7 23.5

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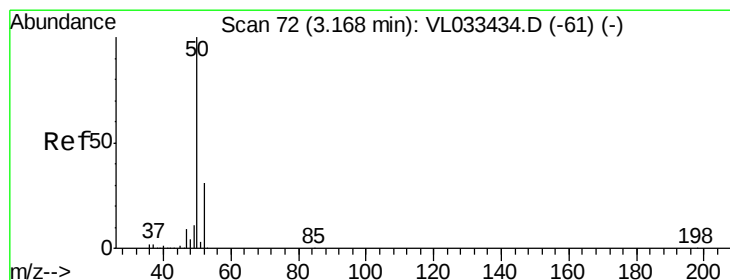
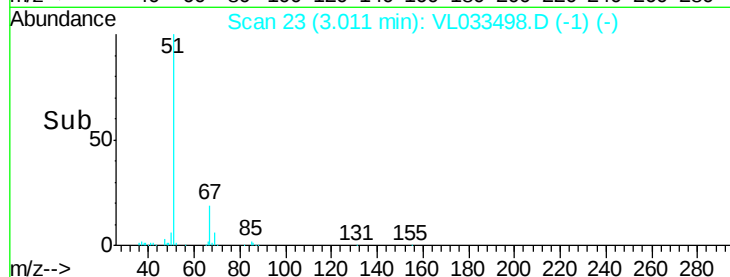
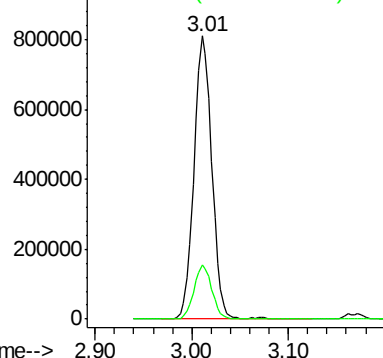
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.439 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033498.D

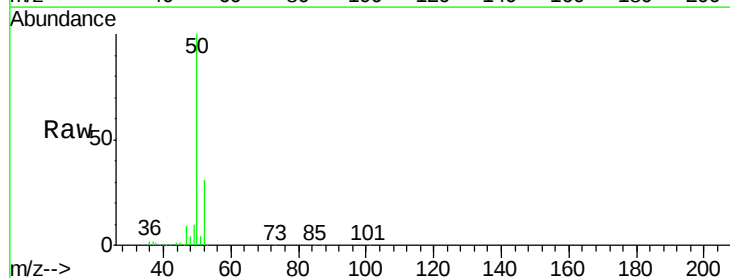
Acq: 29 Mar 2019 12:08

Tgt Ion: 50 Resp: 545372

Ion Ratio Lower Upper

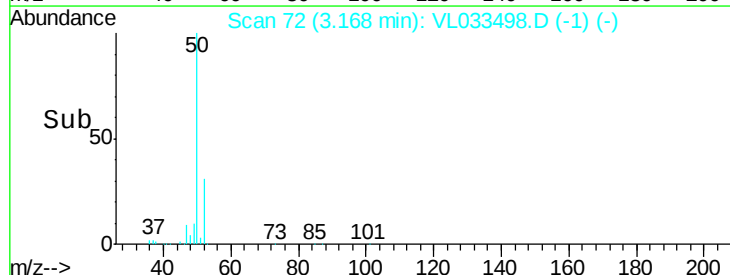
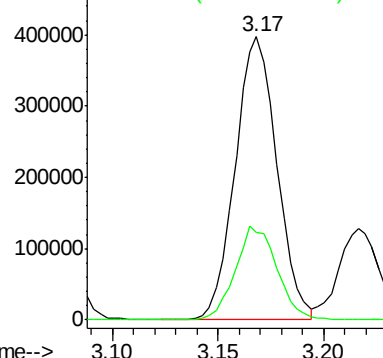
50 100

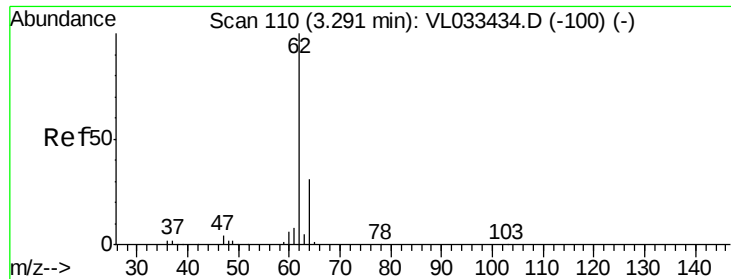
52 31.2 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.633 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 62 Resp: 545819

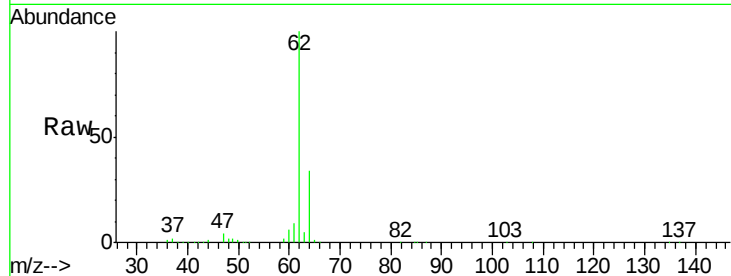
Ion Ratio Lower Upper

62 100

64 34.3 24.9 37.3

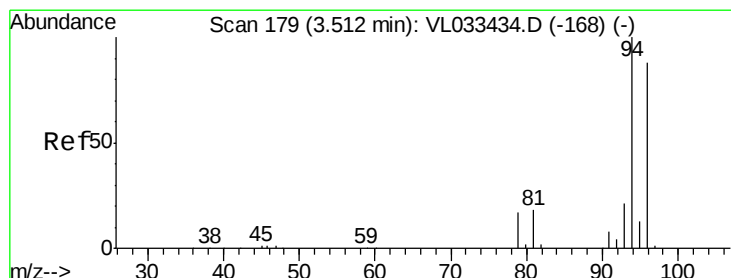
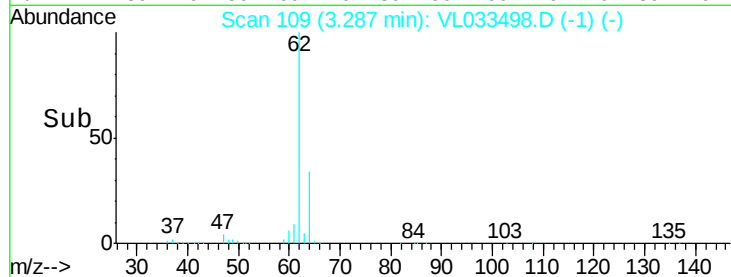
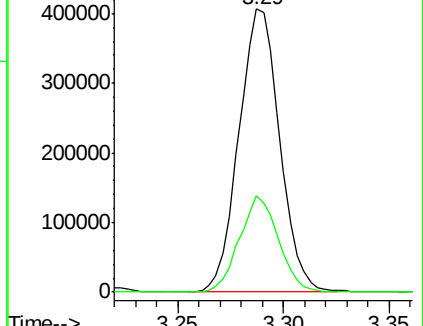
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.840 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033498.D

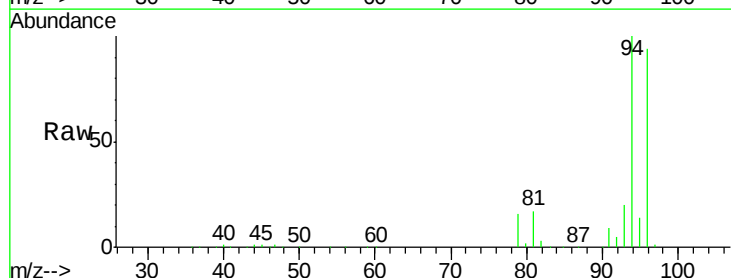
Acq: 29 Mar 2019 12:08

Tgt Ion: 94 Resp: 357591

Ion Ratio Lower Upper

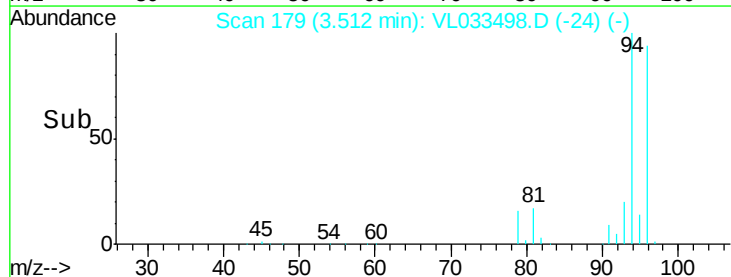
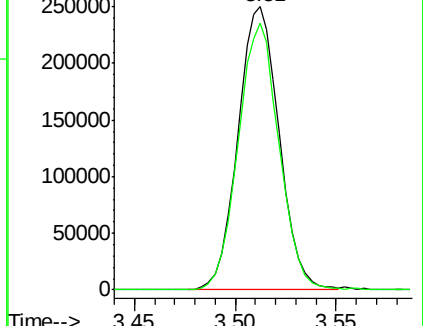
94 100

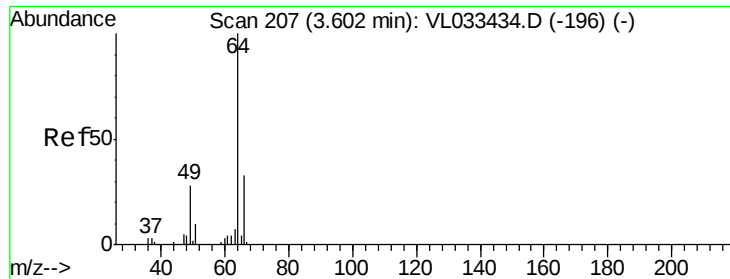
96 94.2 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.489 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 64 Resp: 200387

Ion Ratio Lower Upper

64 100

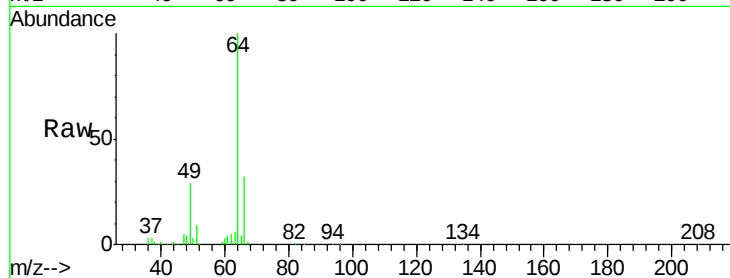
66 31.7 26.7 40.1

Manual Integrations

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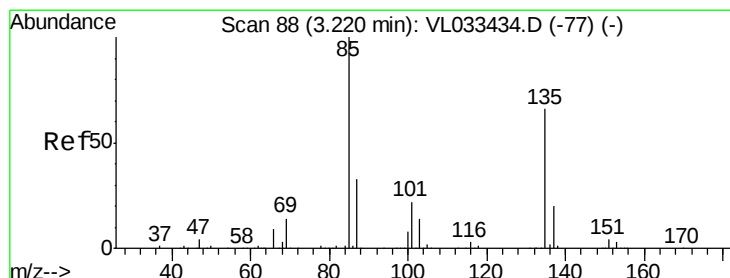
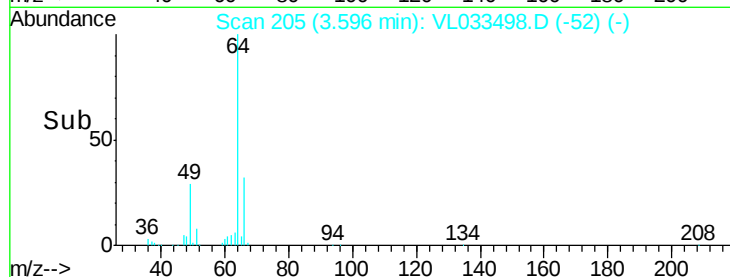
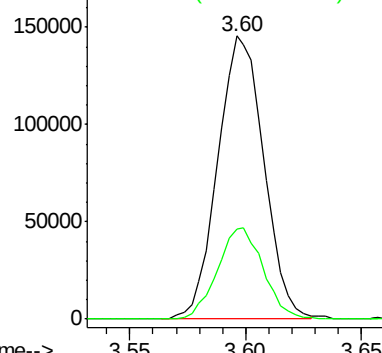
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.449 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033498.D

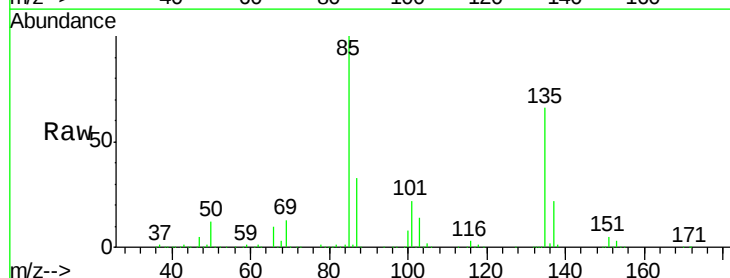
Acq: 29 Mar 2019 12:08

Tgt Ion: 85 Resp: 1392516

Ion Ratio Lower Upper

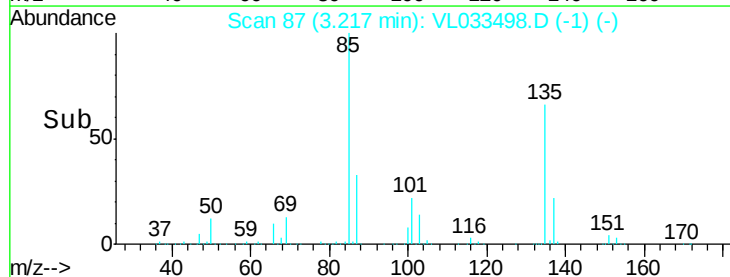
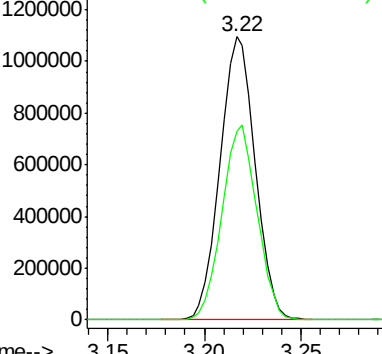
85 100

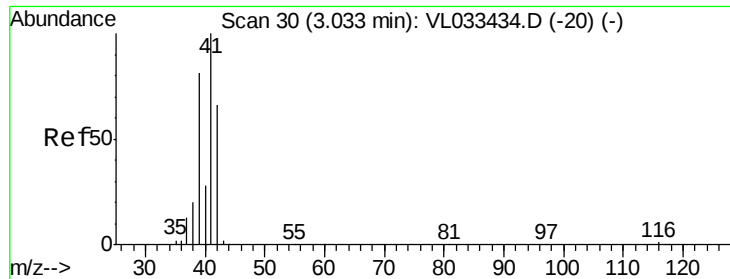
135 68.6 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.089 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 41 Resp: 459796

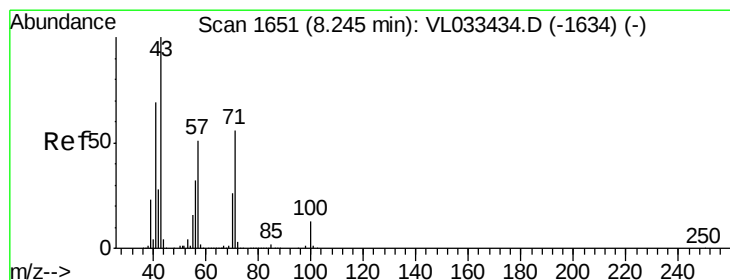
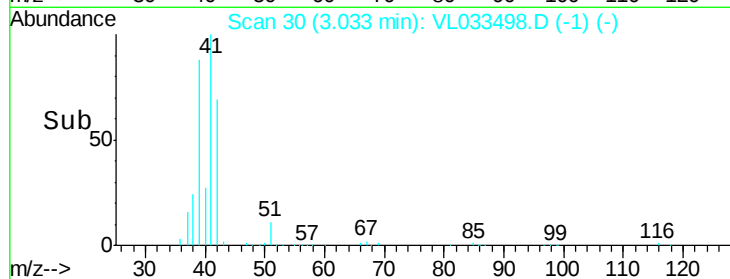
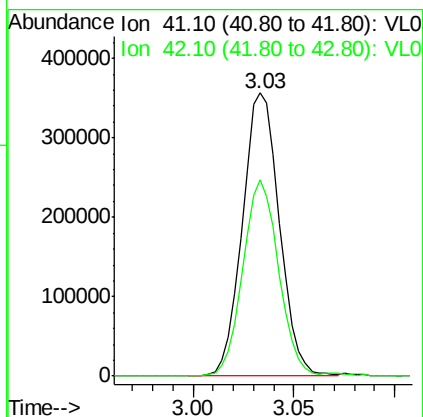
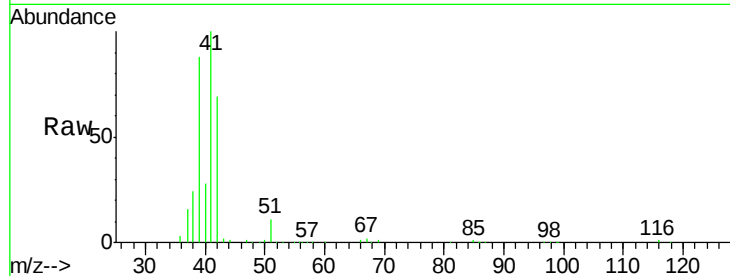
Ion Ratio Lower Upper

41 100

42 67.9 53.9 80.9

Manual Integrations
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#10

Heptane

Concen: 10.956 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033498.D

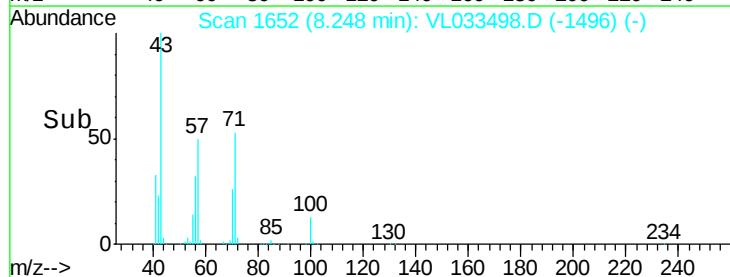
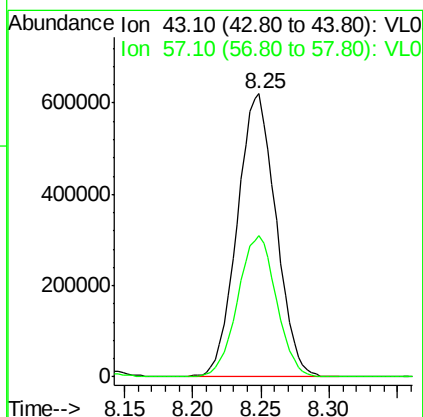
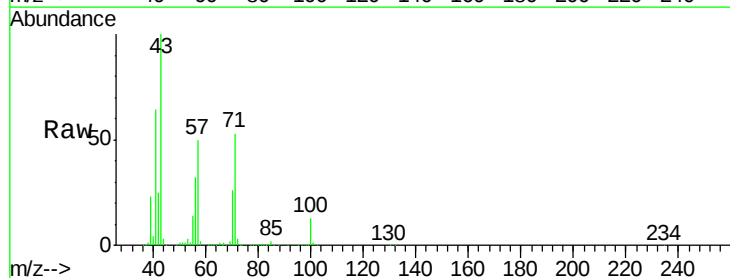
Acq: 29 Mar 2019 12:08

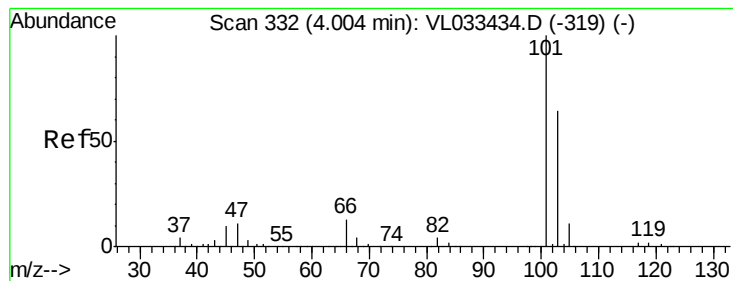
Tgt Ion: 43 Resp: 1214262

Ion Ratio Lower Upper

43 100

57 50.3 40.6 60.8





#11

Trichlorofluoromethane

Concen: 9.923 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:101 Resp: 1529638

Ion Ratio Lower Upper

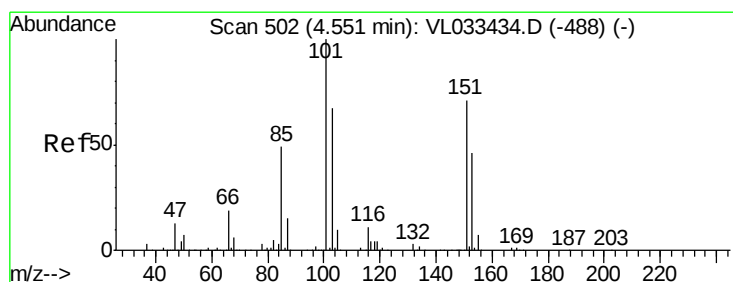
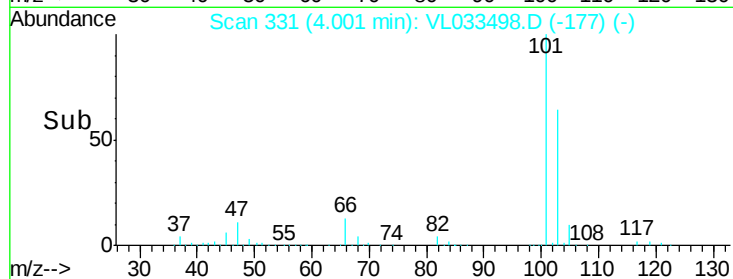
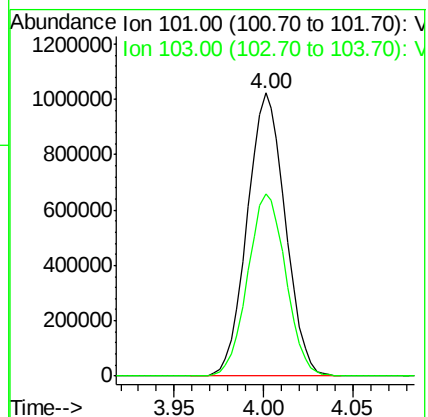
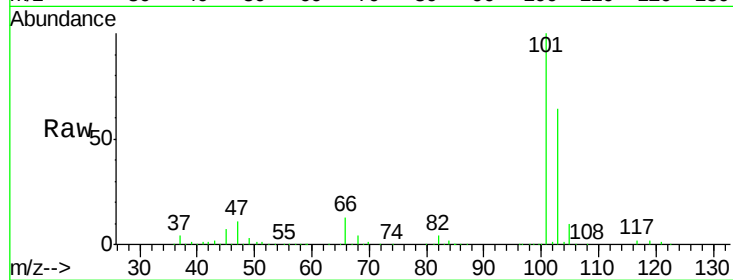
101 100

103 64.4 51.3 76.9

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.349 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033498.D

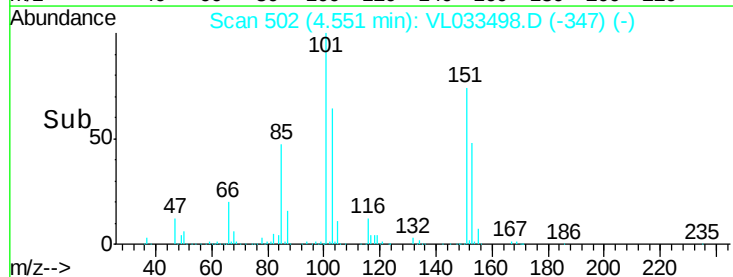
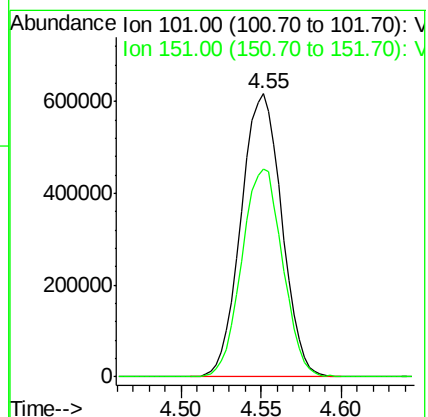
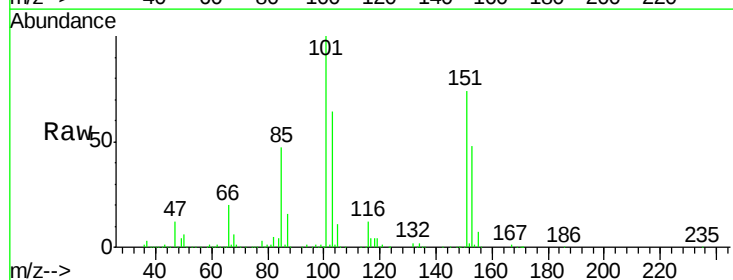
Acq: 29 Mar 2019 12:08

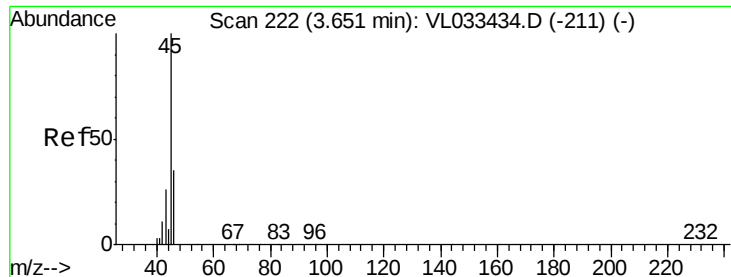
Tgt Ion:101 Resp: 1071517

Ion Ratio Lower Upper

101 100

151 73.7 57.7 86.5





#13

Ethanol

Concen: 9.778 ppbv m

RT: 3.64 min Scan# 219

Delta R.T. -0.01 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 45 Resp: 104910

Ion Ratio Lower Upper

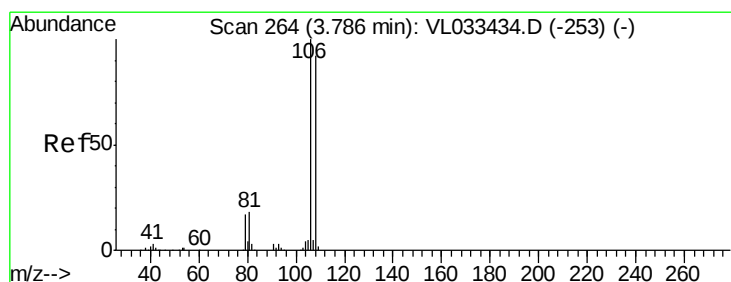
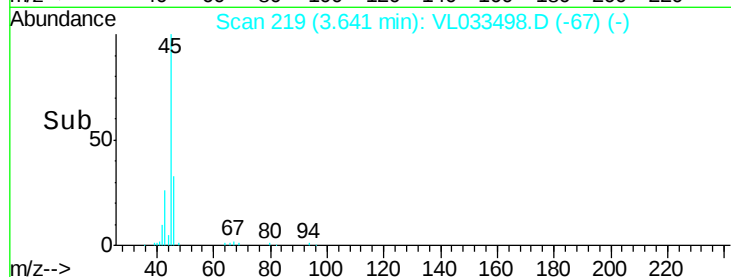
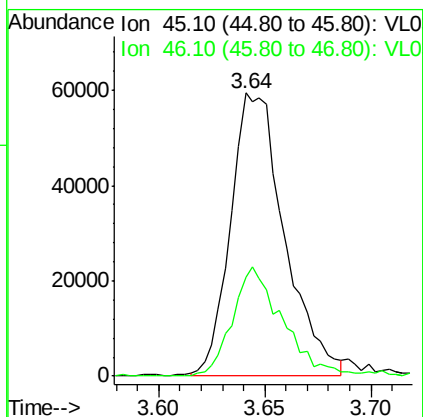
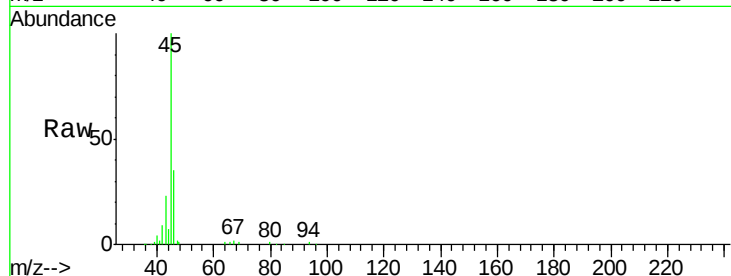
45 100

46 36.8 25.4 101.8

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#14

Bromoethene

Concen: 10.869 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

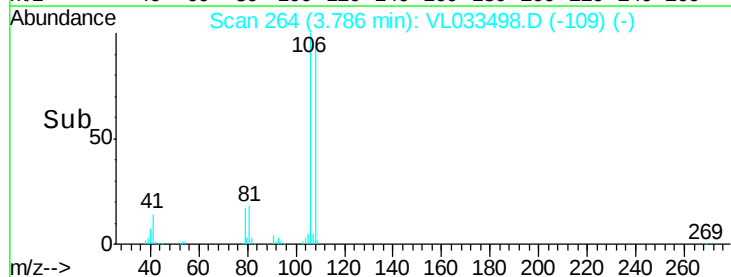
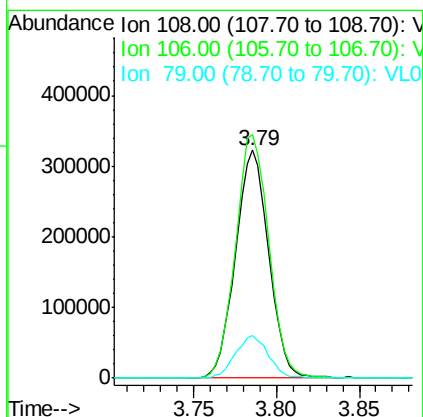
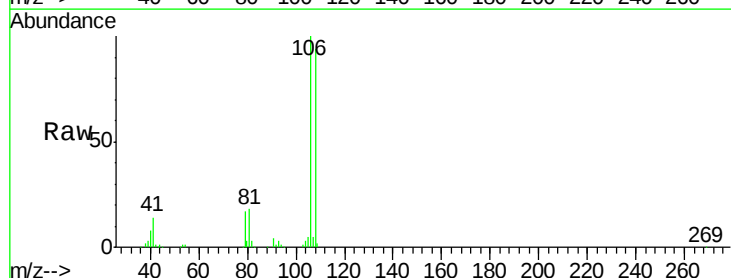
Tgt Ion: 108 Resp: 448823

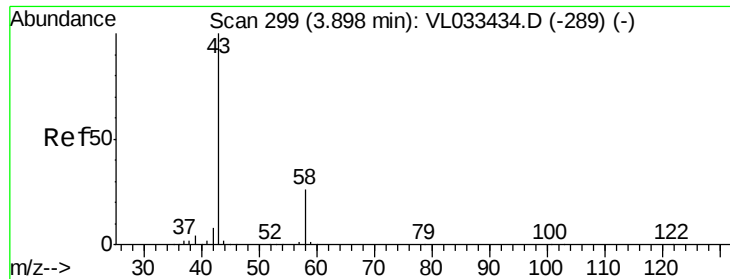
Ion Ratio Lower Upper

108 100

106 108.6 86.4 129.6

79 18.7 15.8 23.8





#15

Acetone

Concen: 9.466 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 43 Resp: 976145

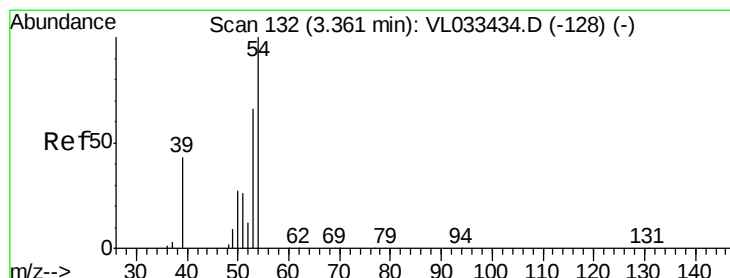
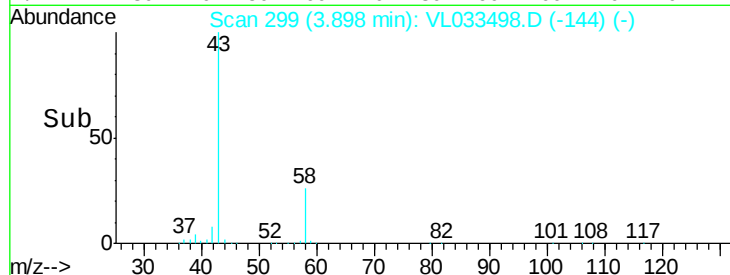
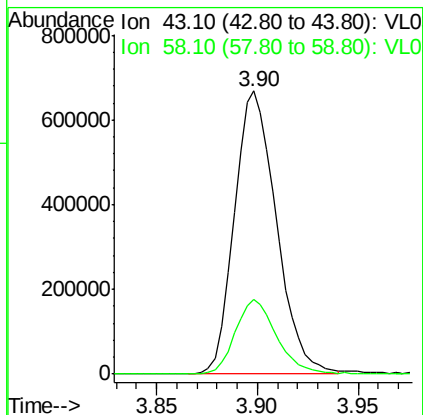
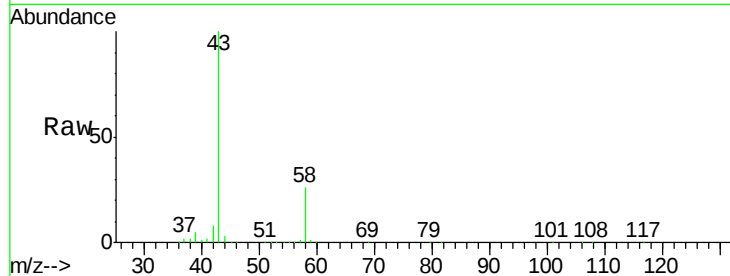
Ion Ratio Lower Upper

43 100

58 26.0 20.5 30.7

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#16

1,3-Butadiene

Concen: 11.192 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033498.D

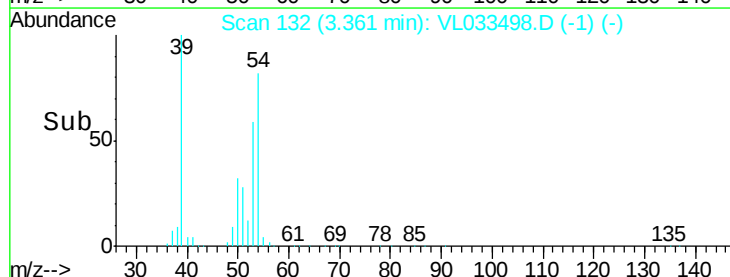
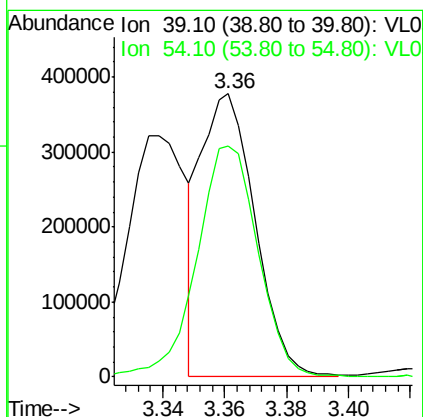
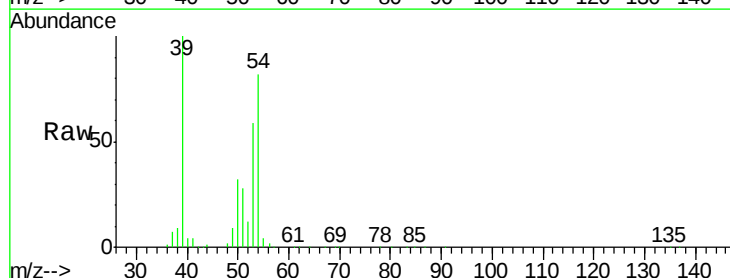
Acq: 29 Mar 2019 12:08

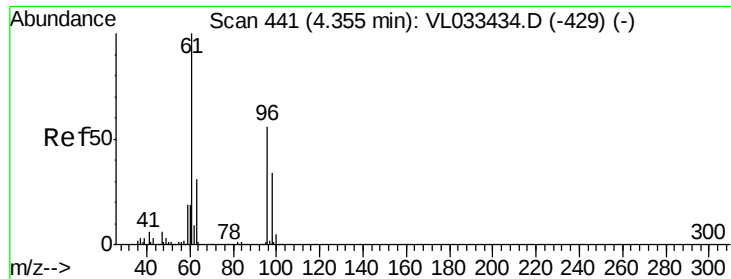
Tgt Ion: 39 Resp: 457765

Ion Ratio Lower Upper

39 100

54 93.1 69.4 104.2





#17

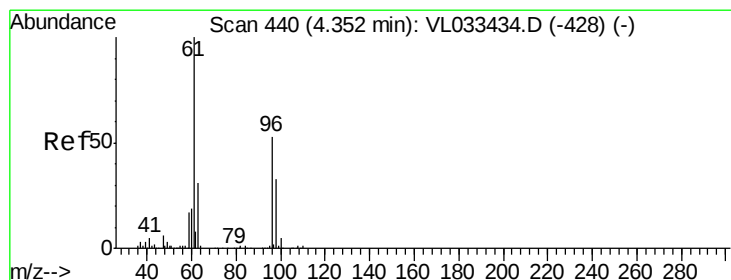
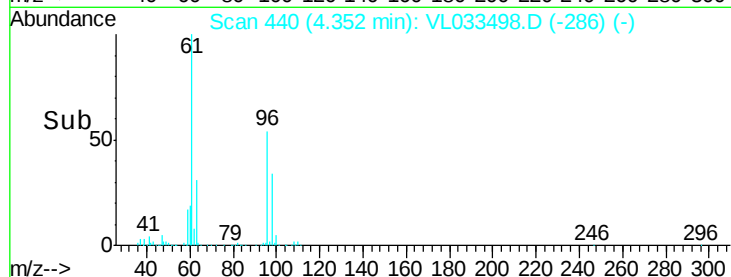
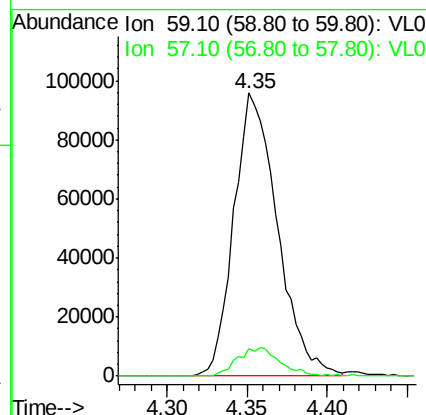
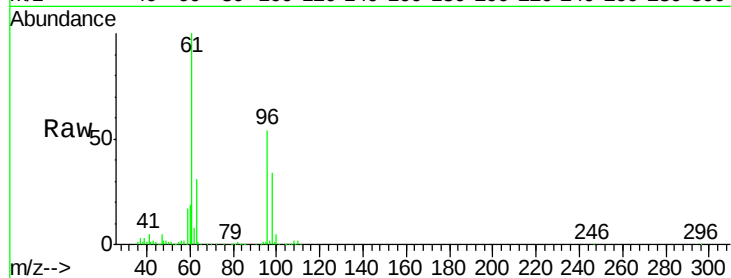
tert-Butyl alcohol
Concen: 9.375 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleID :
VL0329ABS01

Tot Ion: 59 Resp: 177744
Ion Ratio Lower Upper
59 100
57 10.2 7.8 11.8

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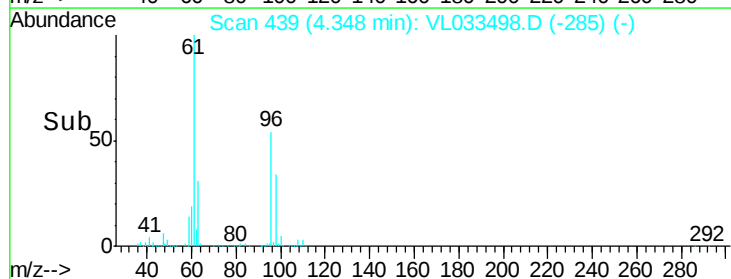
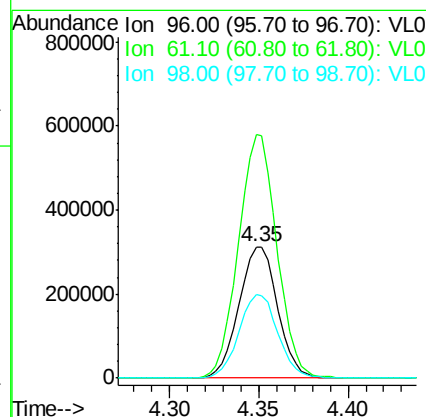
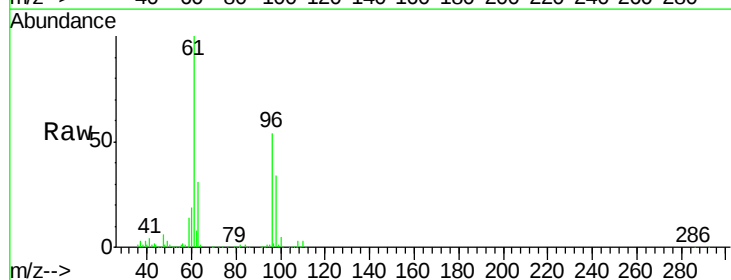
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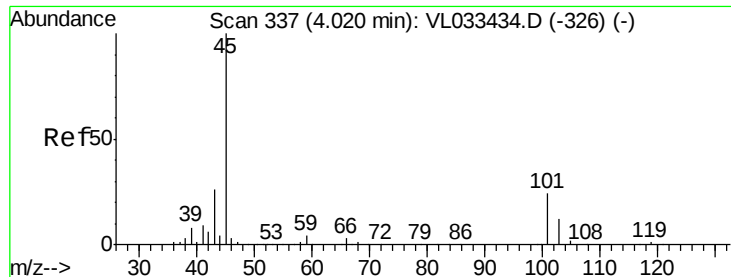


#18

1,1-Dichloroethene
Concen: 10.641 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion: 96 Resp: 473224
Ion Ratio Lower Upper
96 100
61 185.3 149.8 224.6
98 63.7 48.7 73.1





#19

Isopropyl Alcohol

Concen: 9.350 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 45 Resp: 609834

Ion Ratio Lower Upper

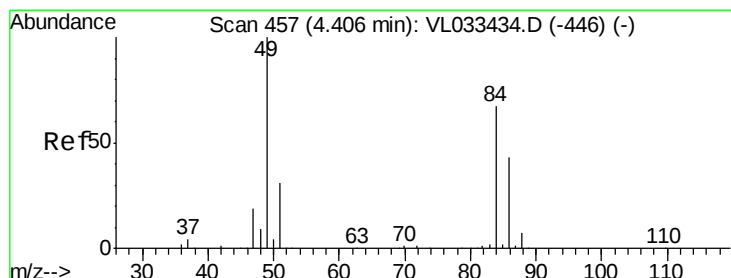
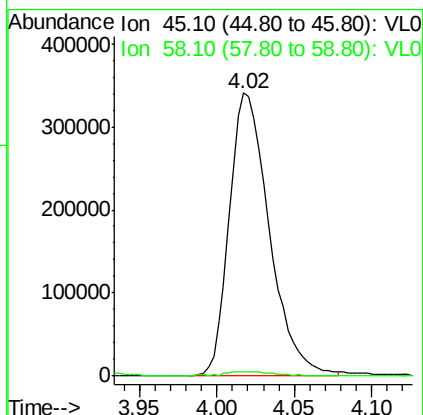
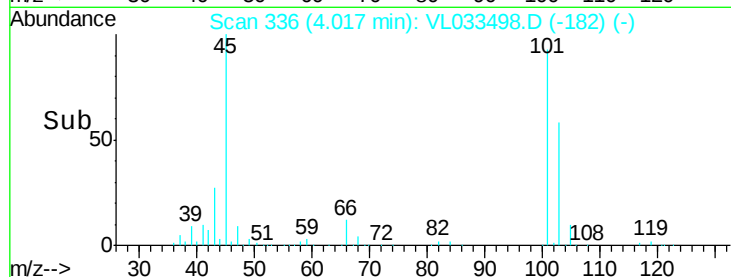
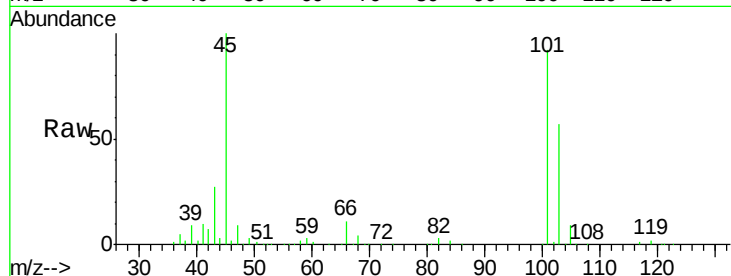
45 100

58 2.1 1.4 2.2

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#20

Methylene Chloride

Concen: 9.350 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Tgt Ion: 84 Resp: 409265

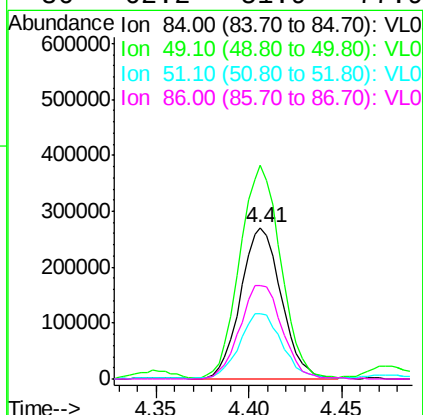
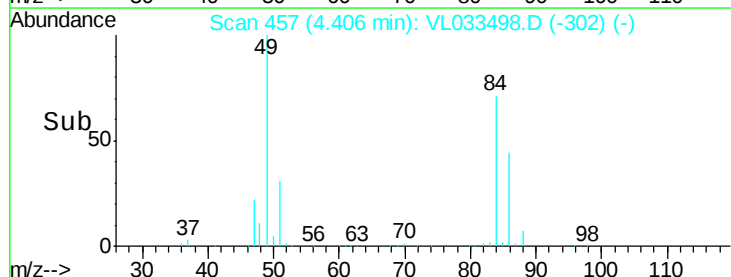
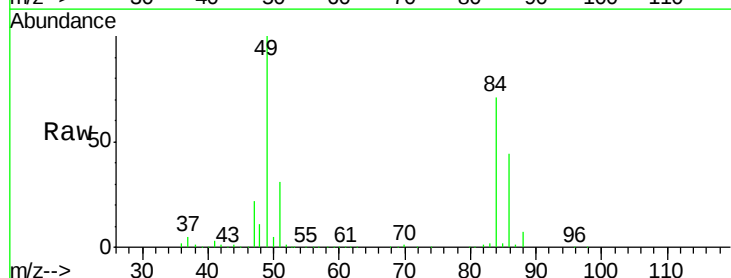
Ion Ratio Lower Upper

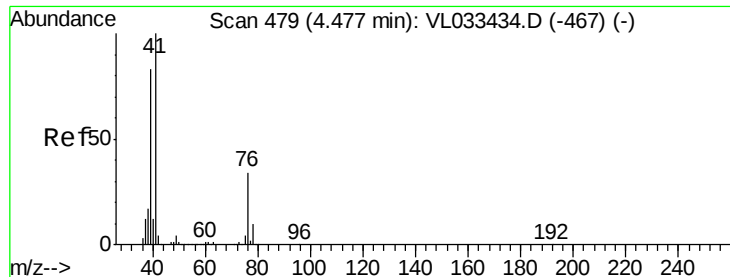
84 100

49 140.4 120.0 180.0

51 42.9 36.7 55.1

86 62.2 51.9 77.9





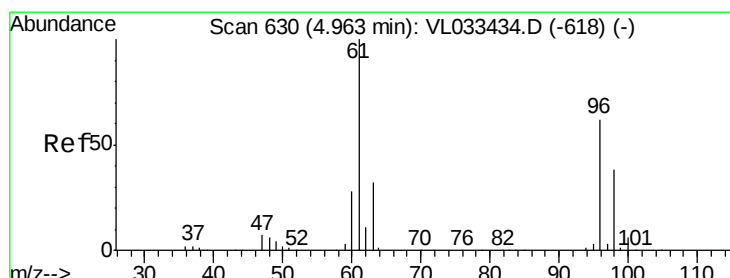
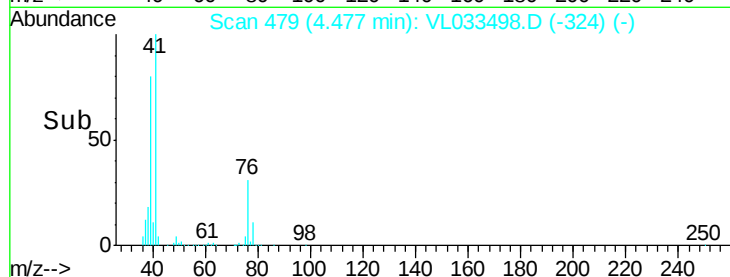
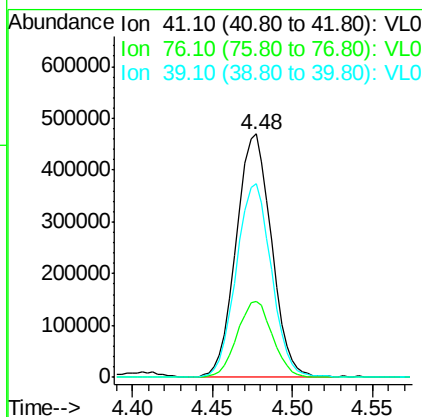
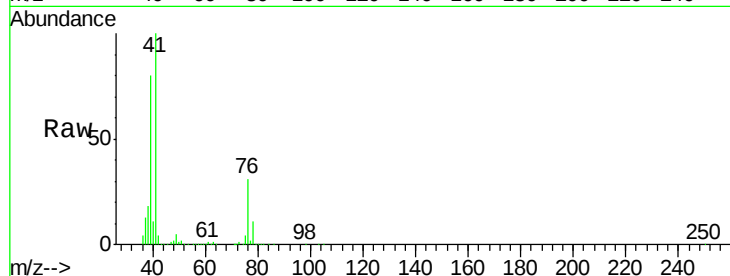
#21
Allvl Chloride
Concen: 10.797 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleId :
VL0329ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.2	25.4	38.2
39	80.2	65.3	97.9

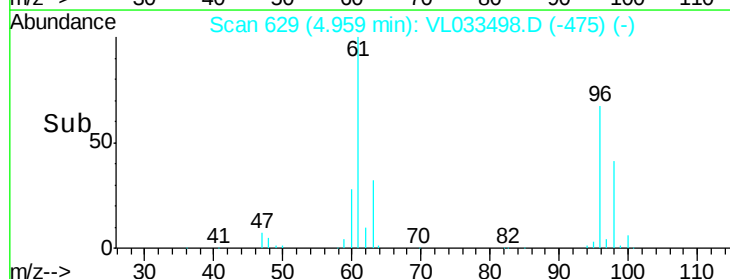
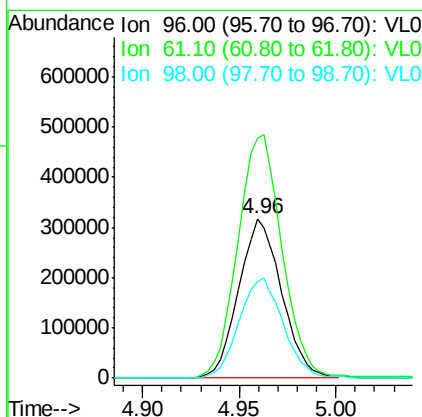
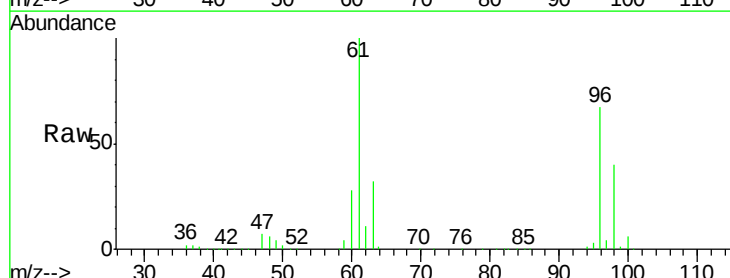
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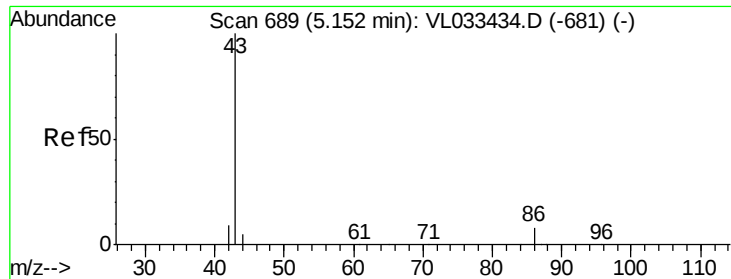
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#22
trans-1,2-Dichloroethene
Concen: 10.451 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.2	128.9	193.3
98	60.7	49.5	74.3





#23

Vinyl Acetate

Concen: 11.087 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 43 Resp: 1627164

Ion Ratio Lower Upper

43 100

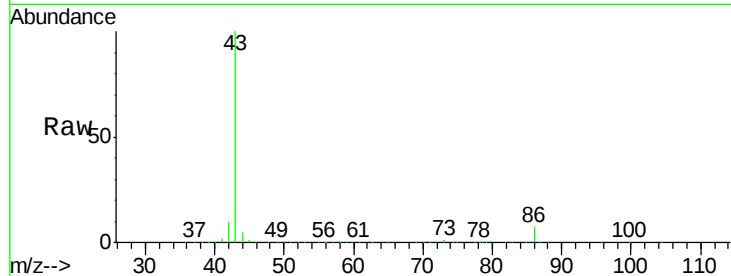
86 7.2 5.6 8.4

42 10.0 8.0 12.0

44 5.1 3.9 5.9

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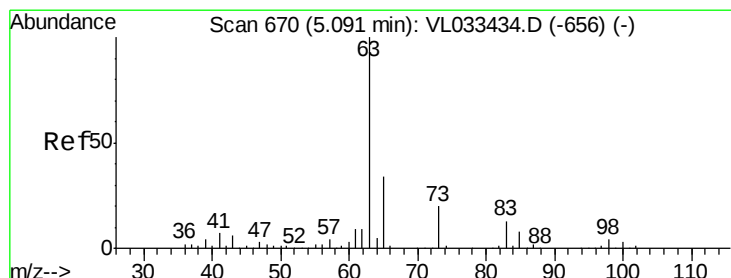
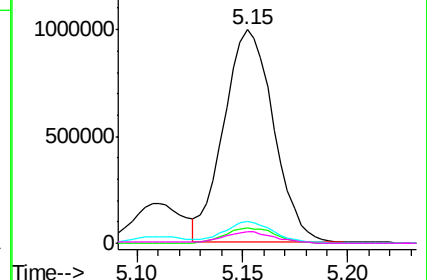
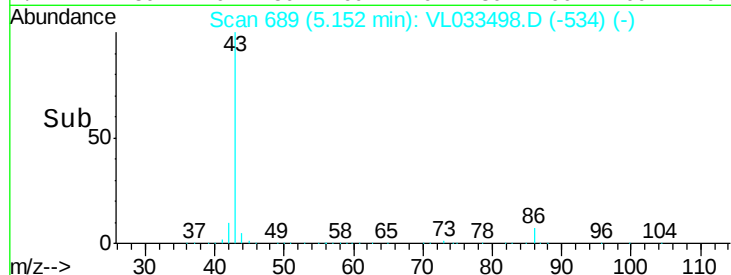


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.475 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

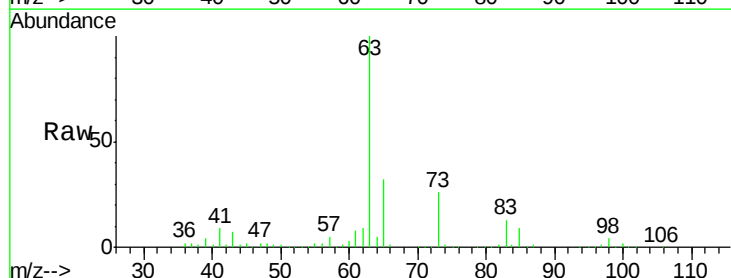
Tgt Ion: 63 Resp: 1167827

Ion Ratio Lower Upper

63 100

98 4.3 2.2 6.6

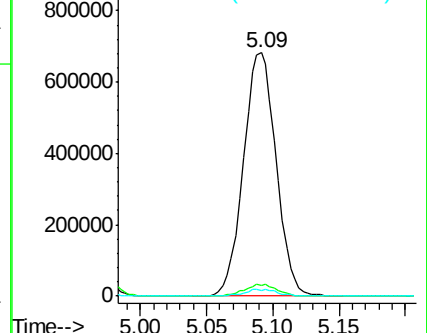
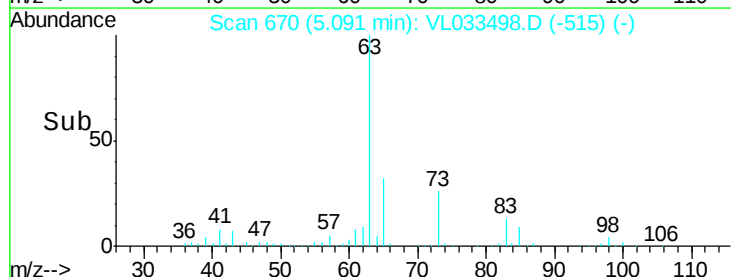
100 2.5 1.5 4.4

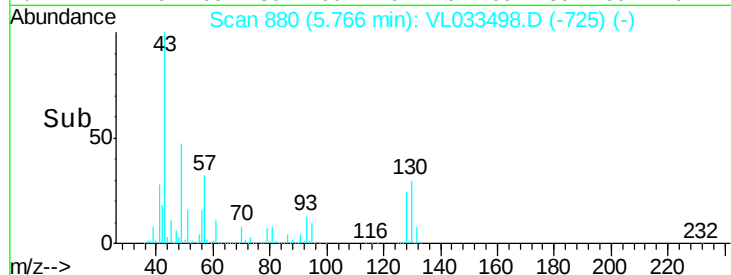
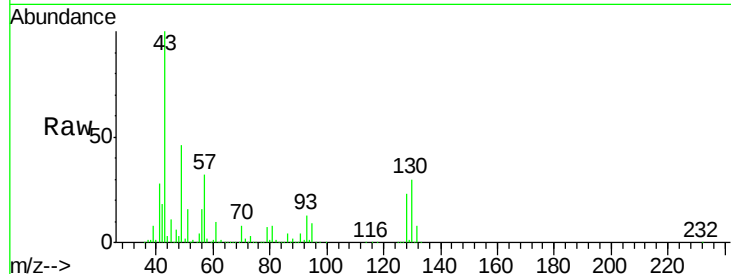
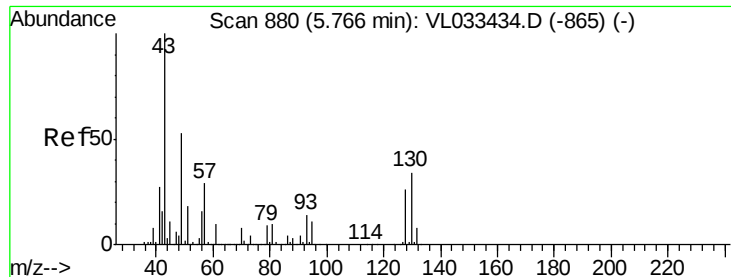


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.425 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Tot Ion:	43	Resp:	1994487
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.6
61	9.5	7.3	10.9
70	7.1	5.6	8.4

Instrument :

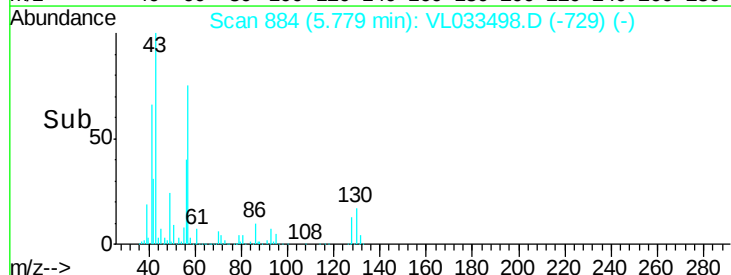
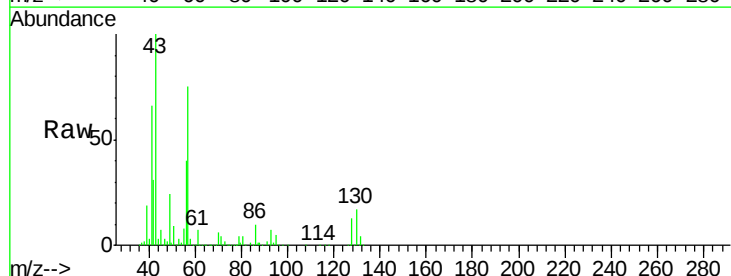
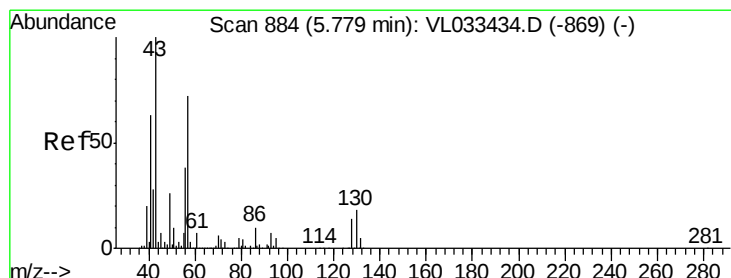
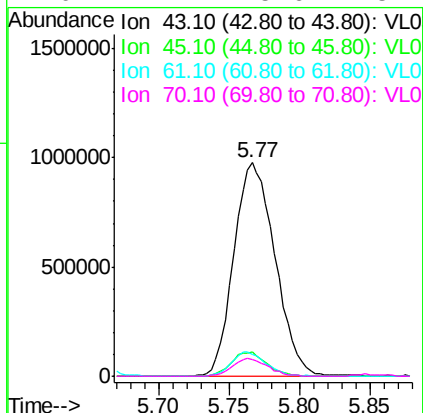
MSVOA_L

ClientSampleId :

VL0329ABS01

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#26

Hexane

Concen: 10.632 ppbv

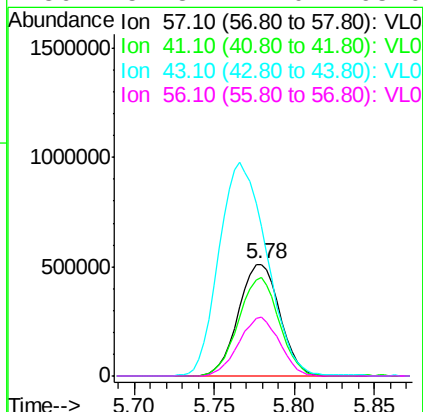
RT: 5.78 min Scan# 884

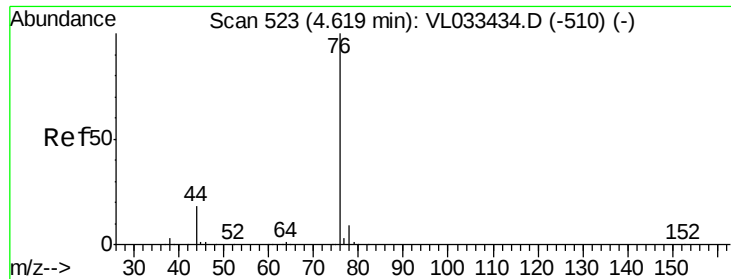
Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Tgt Ion:	57	Resp:	904433
Ion	Ratio	Lower	Upper
57	100		
41	87.0	70.7	106.1
43	221.1	182.6	274.0
56	51.8	42.0	63.0





#27

Carbon Disulfide

Concen: 11.455 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 76 Resp: 1158760

Ion Ratio Lower Upper

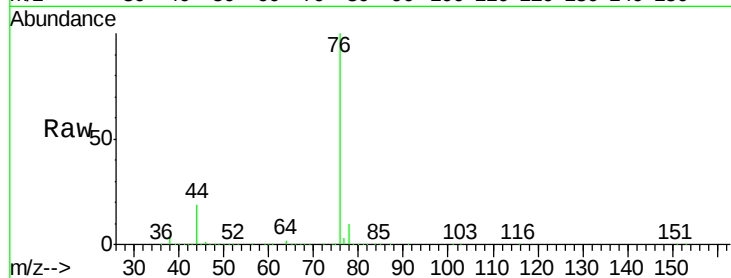
76 100

44 18.2 14.8 22.2

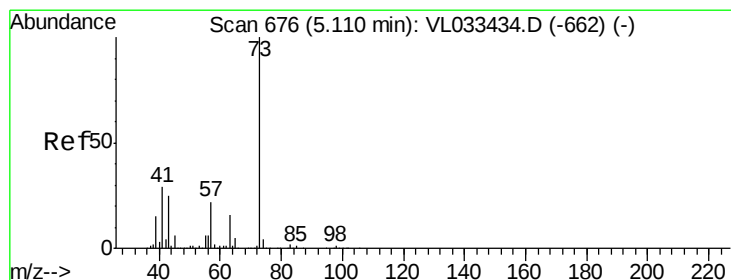
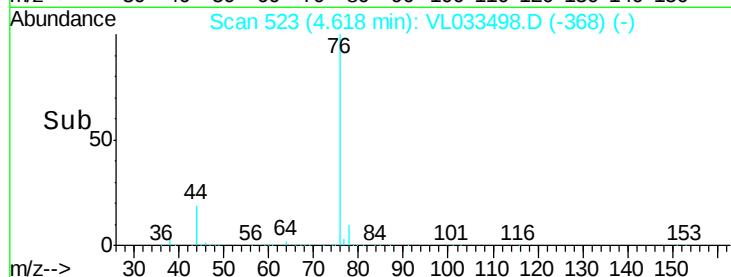
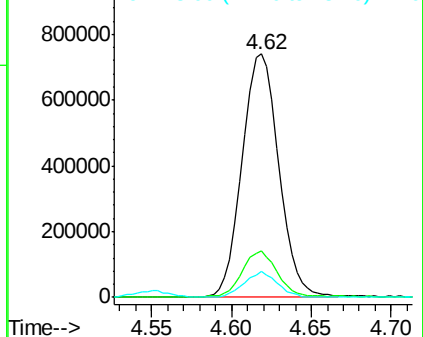
78 9.4 7.6 11.4

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



#28

Methyl tert-Butyl Ether

Concen: 11.084 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033498.D

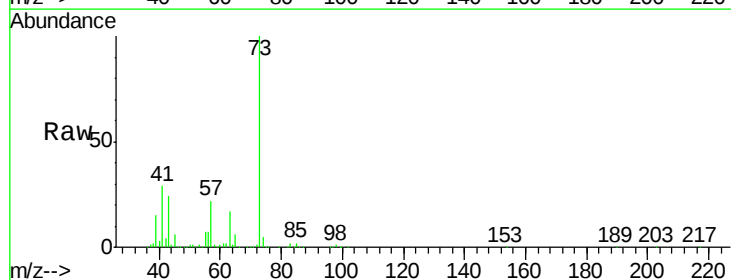
Acq: 29 Mar 2019 12:08

Tgt Ion: 73 Resp: 1358079

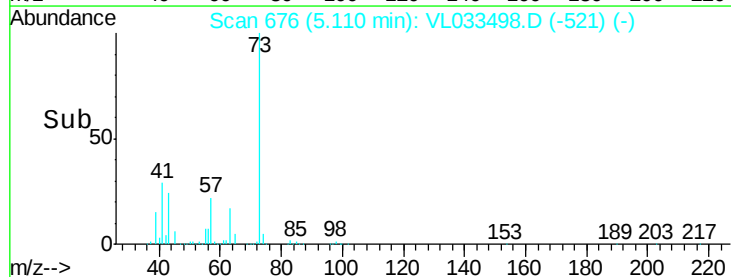
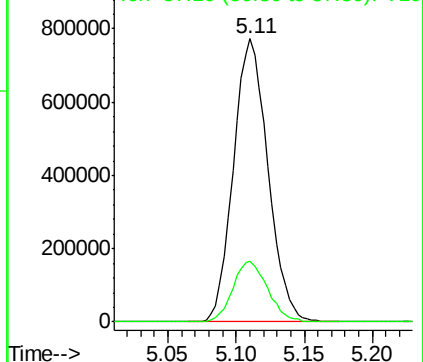
Ion Ratio Lower Upper

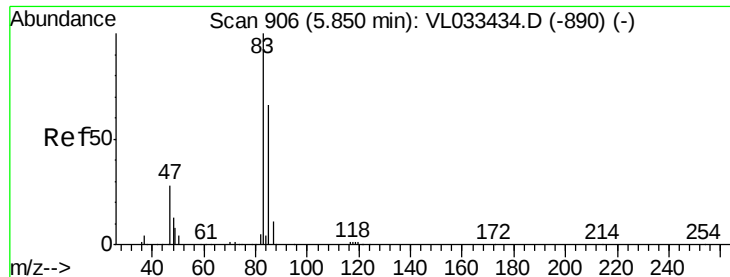
73 100

57 21.8 17.4 26.2



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





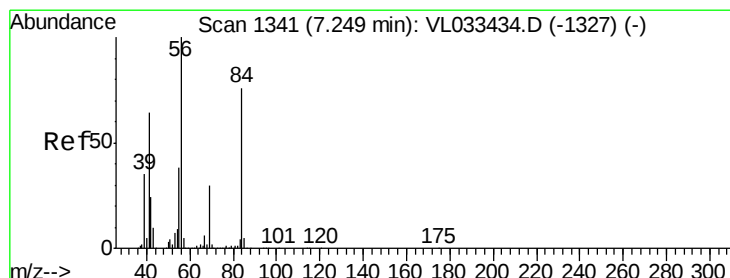
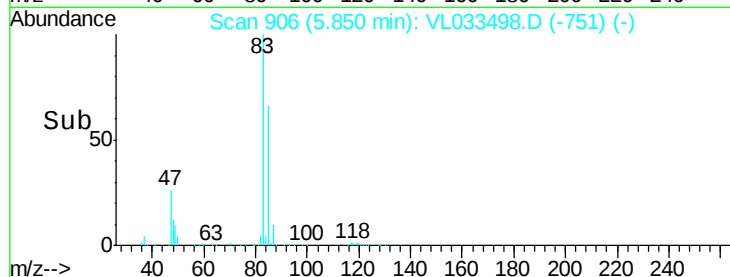
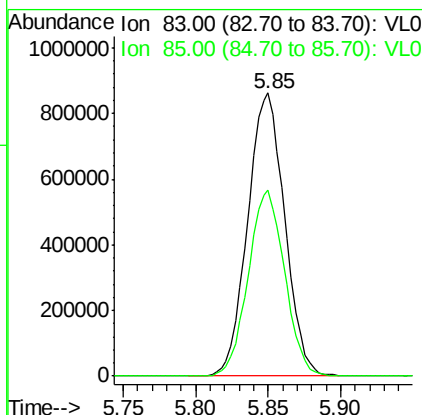
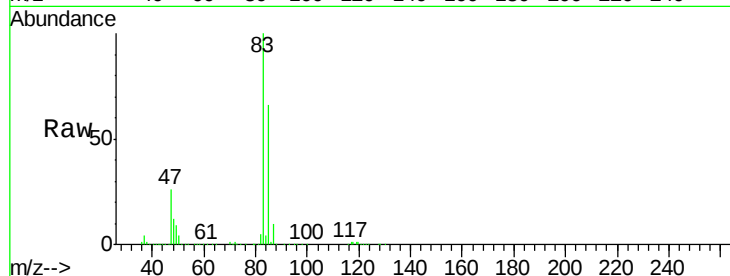
#29
Chloroform
Concen: 10.523 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleId :
VL0329ABS01

Tot Ion: 83 Resp: 1534464
Ion Ratio Lower Upper
83 100
85 65.6 52.6 79.0

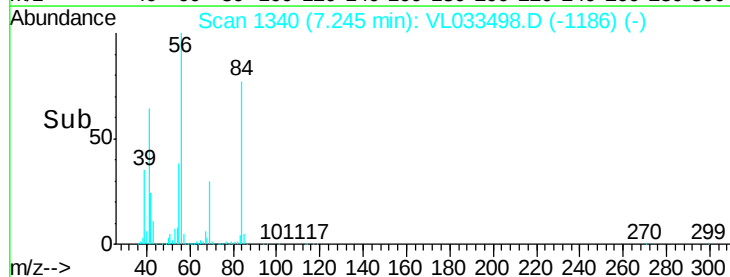
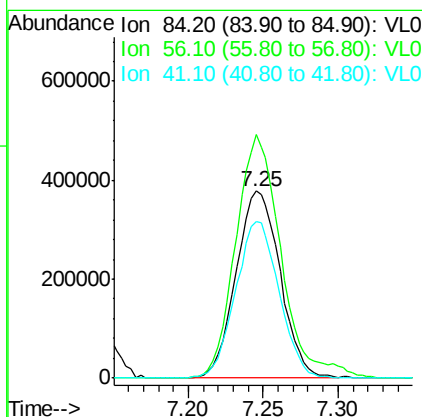
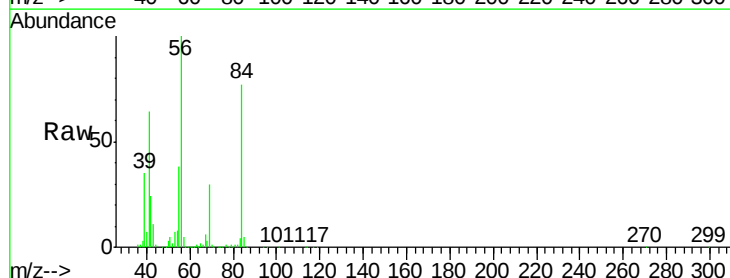
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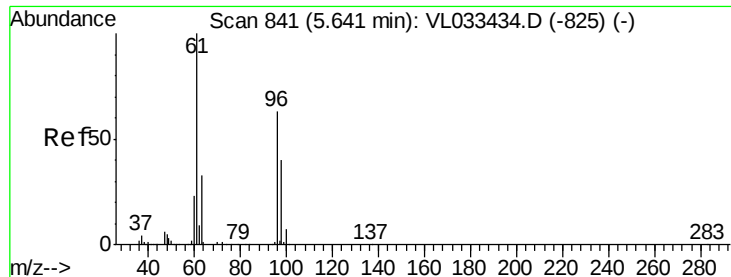
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4/1/2019 4:03:07 AM



#30
Cyclohexane
Concen: 11.541 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion: 84 Resp: 776655
Ion Ratio Lower Upper
84 100
56 134.1 109.7 164.5
41 82.9 68.2 102.2





#31

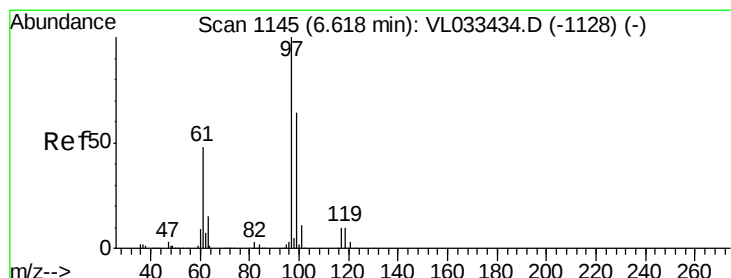
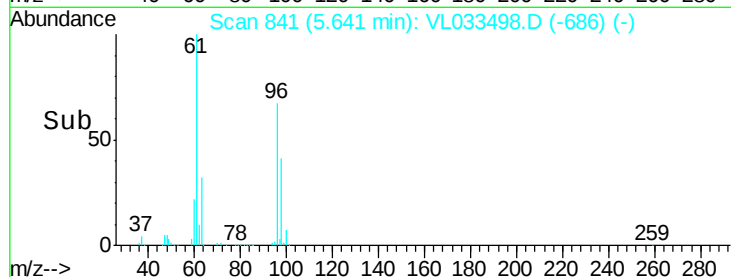
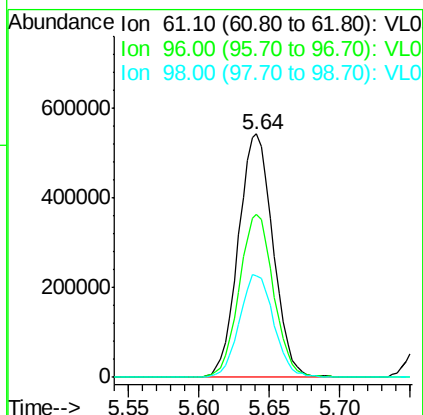
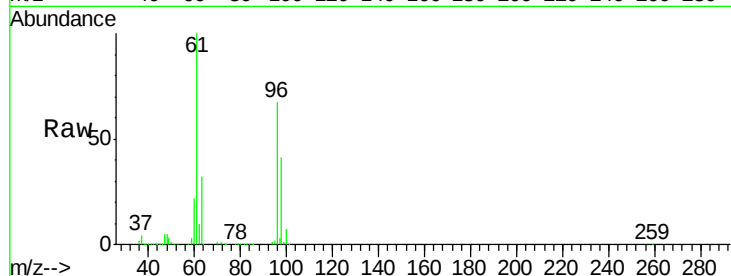
cis-1,2-Dichloroethene
Concen: 11.069 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleId :
VL0329ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.0	50.6	76.0
98	41.4	32.2	48.2

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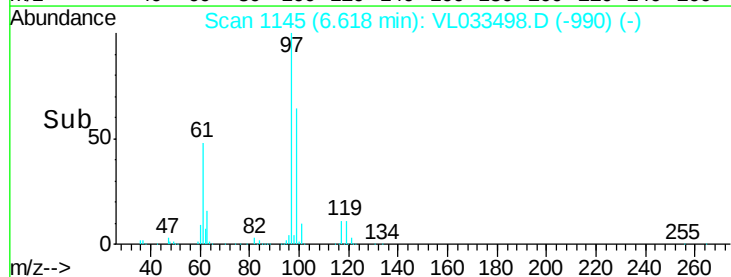
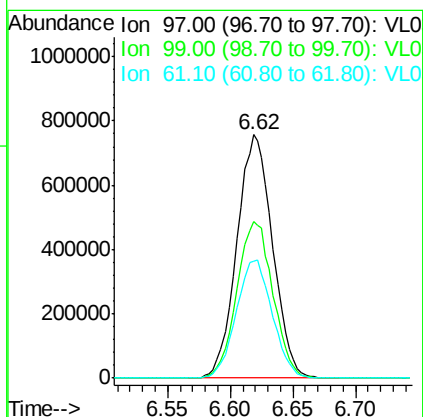
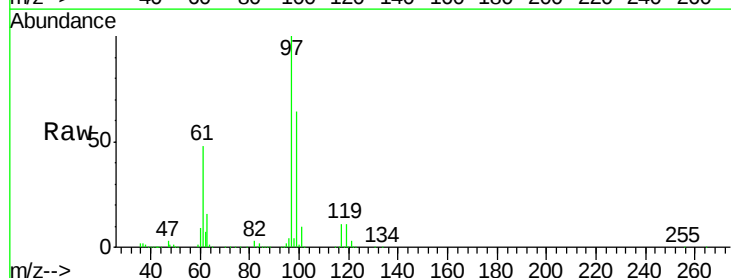
MMDadoda
4/1/2019 4:03:07 AM

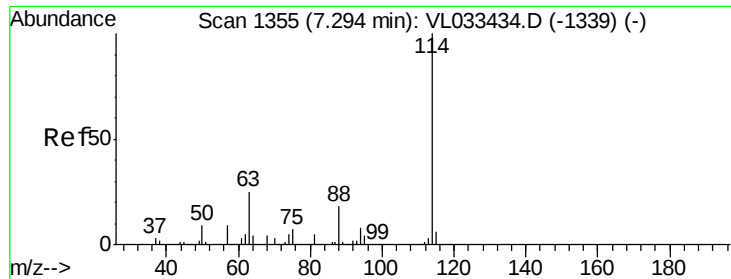


#32

1,1,1-Trichloroethane
Concen: 10.777 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.5	77.3
61	49.2	38.8	58.2





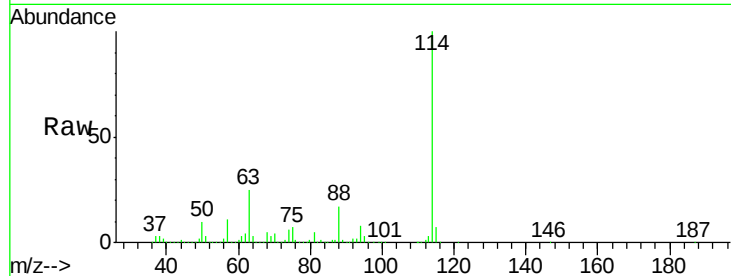
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.5	32.3
88	17.8	14.5	21.7

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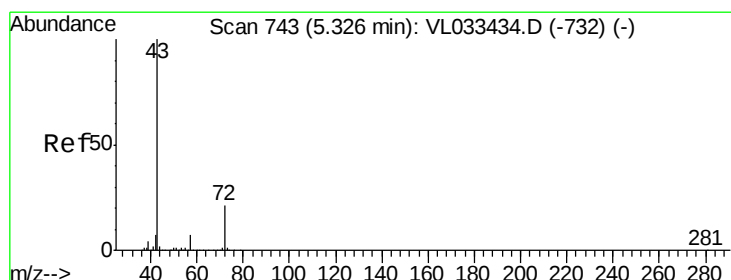
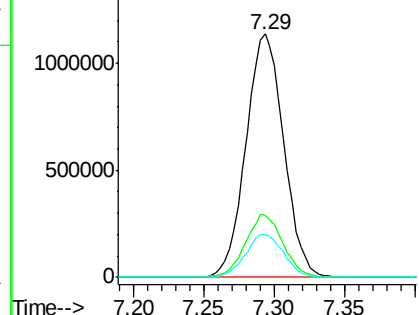
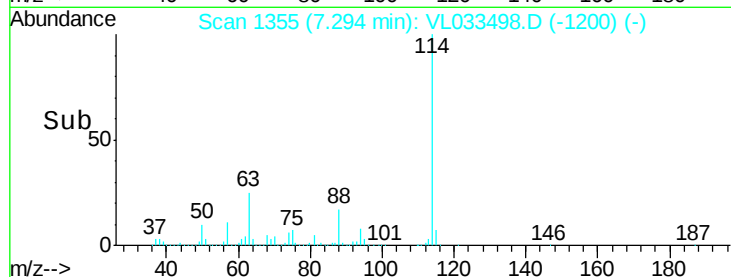
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Abundance Ion 114.10 (113.80 to 114.80): VL033434.D (-1339) (-)

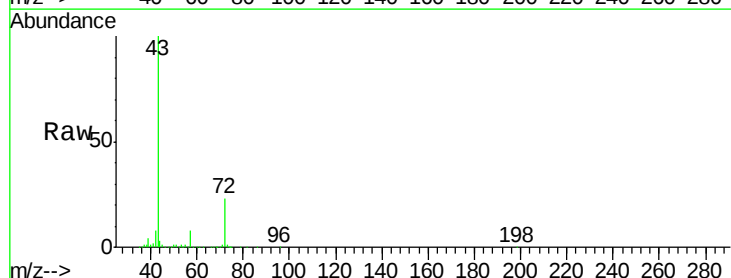
Ion 63.10 (62.80 to 63.80): VL033434.D (-1339) (-)

Ion 88.10 (87.80 to 88.80): VL033434.D (-1339) (-)



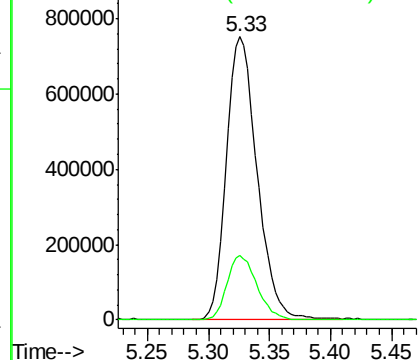
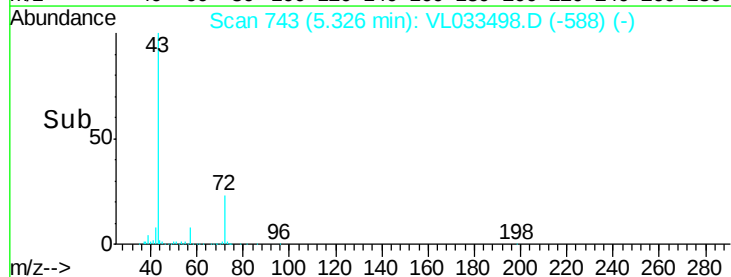
#34
 2-Butanone
 Concen: 10.311 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

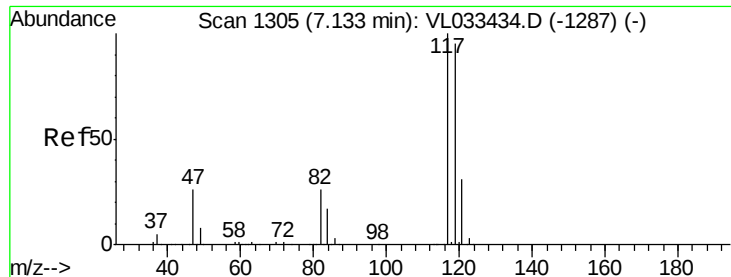
Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.5	17.4	26.2



Abundance Ion 43.10 (42.80 to 43.80): VL033434.D (-732) (-)

Ion 72.10 (71.80 to 72.80): VL033434.D (-732) (-)





#35

Carbon Tetrachloride

Concen: 10.603 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:117 Resp: 1603794

Ion Ratio Lower Upper

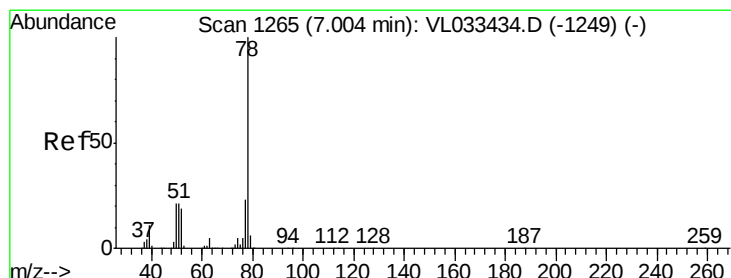
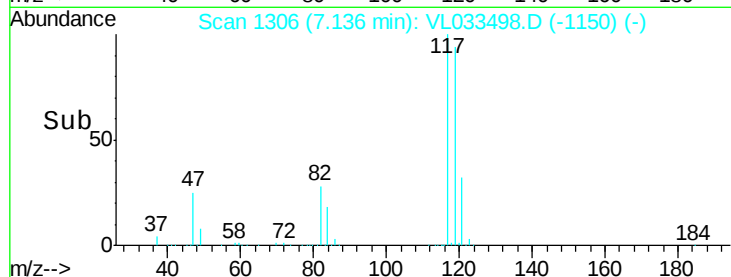
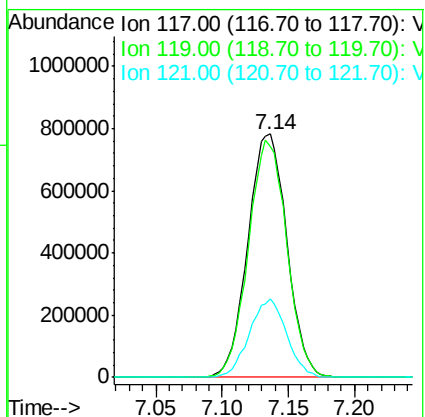
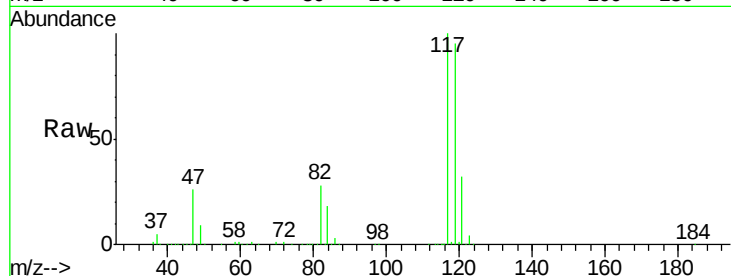
117 100

119 94.8 75.8 113.8

121 32.2 24.7 37.1

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#36

Benzene

Concen: 10.806 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

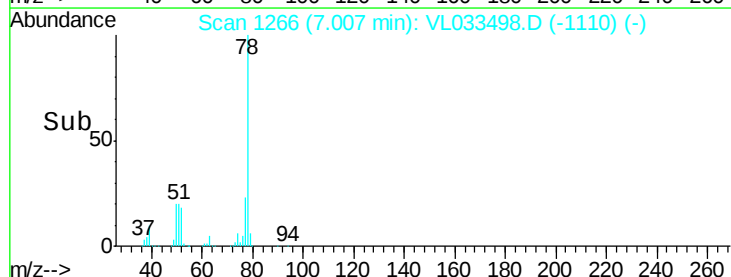
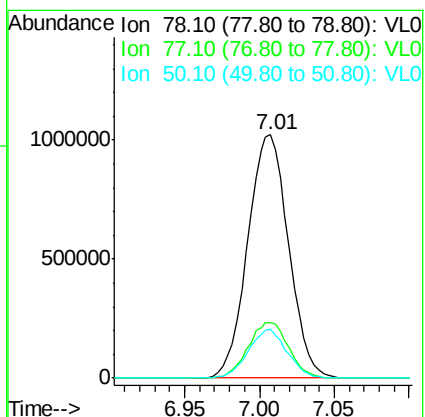
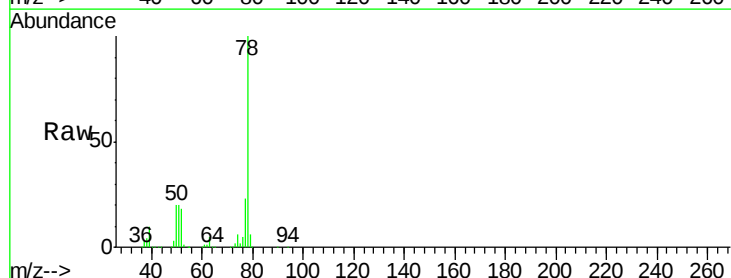
Tgt Ion: 78 Resp: 1936277

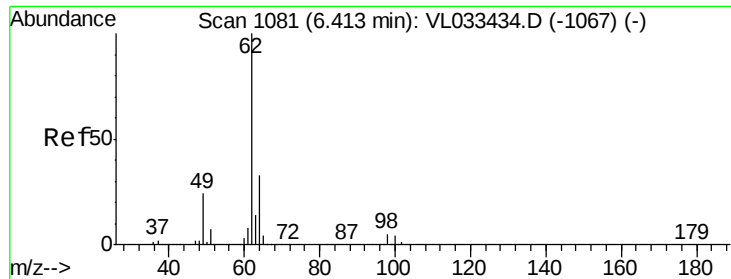
Ion Ratio Lower Upper

78 100

77 22.8 18.1 27.1

50 19.9 16.7 25.1





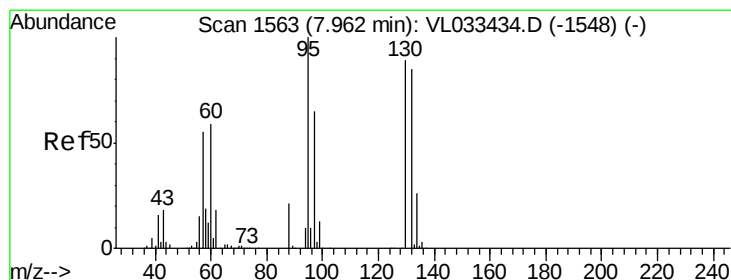
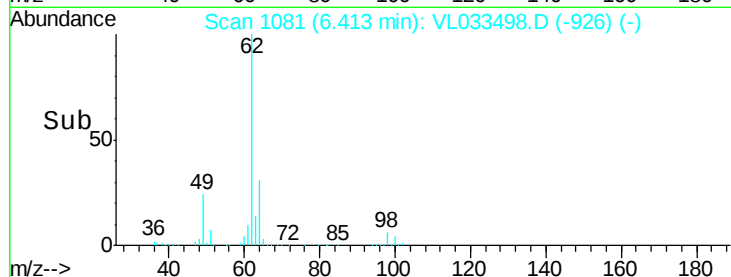
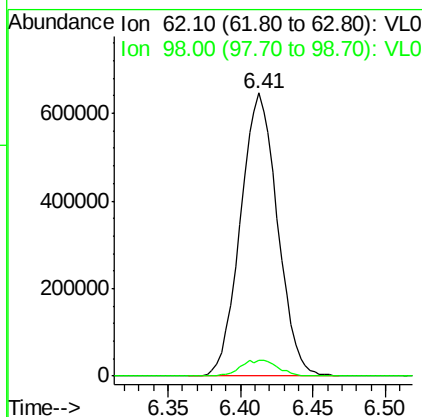
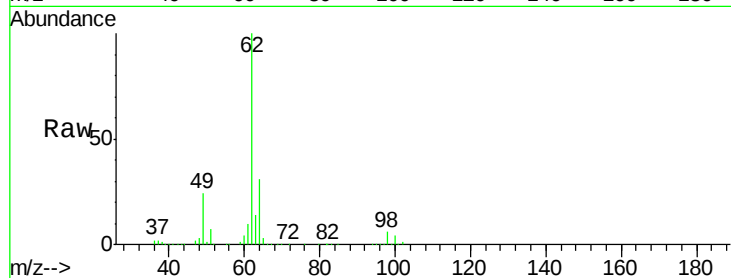
#37
 1,2-Dichloroethane
 Concen: 9.561 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Tot Ion: 62 Resp: 1148226
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.4 6.6

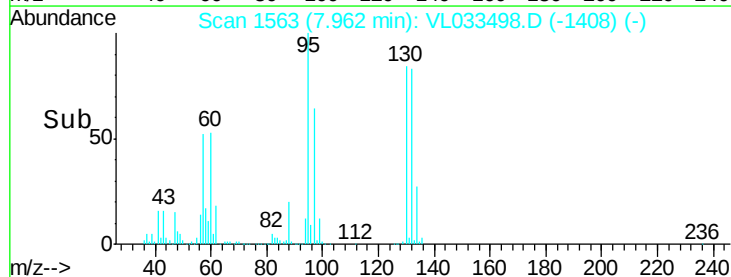
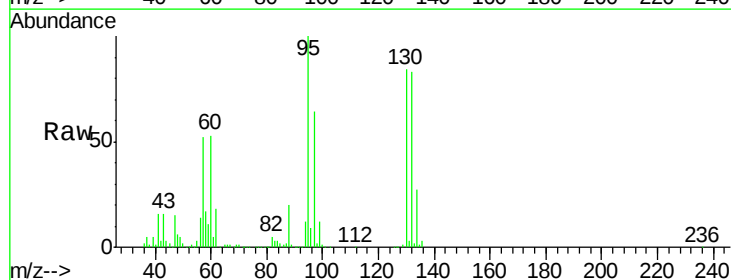
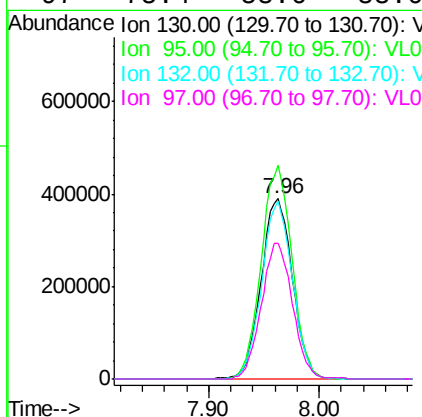
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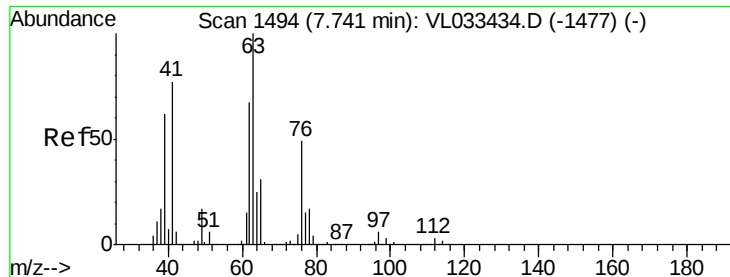
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#38
 Trichloroethene
 Concen: 11.408 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Tgt Ion:130 Resp: 769243
 Ion Ratio Lower Upper
 130 100
 95 118.5 89.8 134.8
 132 98.7 76.6 115.0
 97 75.4 58.6 88.0





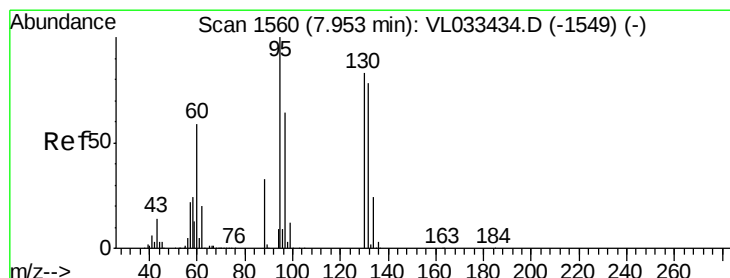
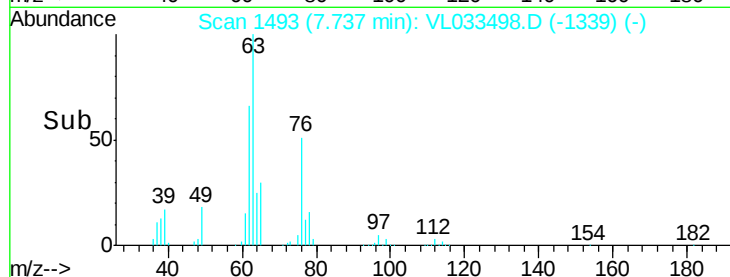
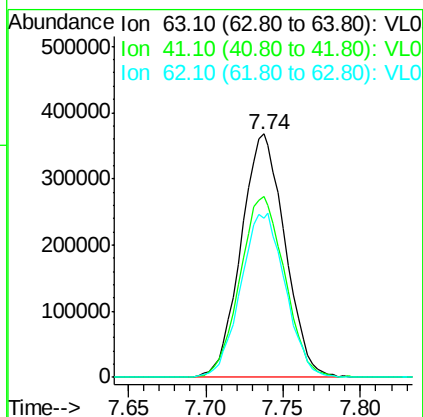
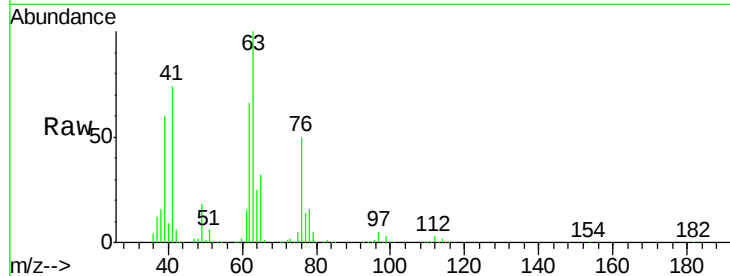
#39
 1,2-Dichloropropane
 Concen: 10.305 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.3	61.2	91.8
62	65.5	54.0	81.0

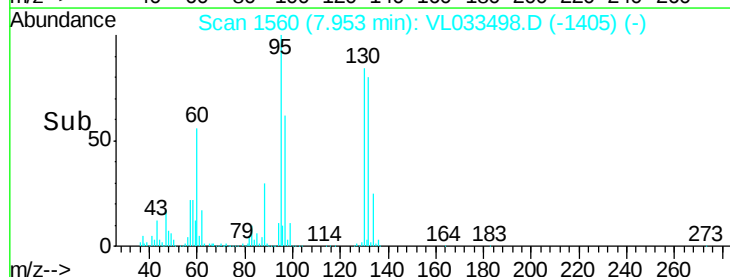
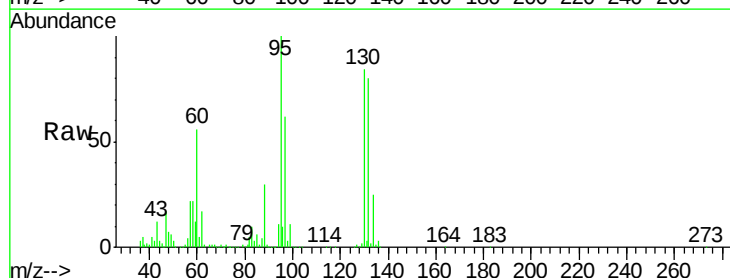
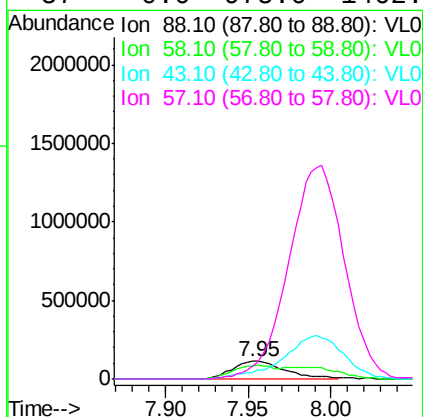
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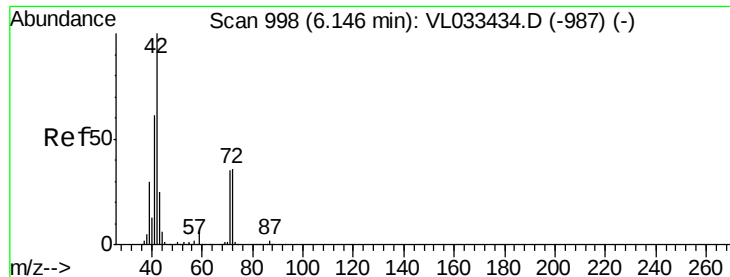
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#40
 1,4-Dioxane
 Concen: 9.741 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.2	105.6	158.4
43	0.0	216.7	325.1#
57	0.0	975.0	1462.4#





#41

Tetrahydrofuran

Concen: 10.514 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

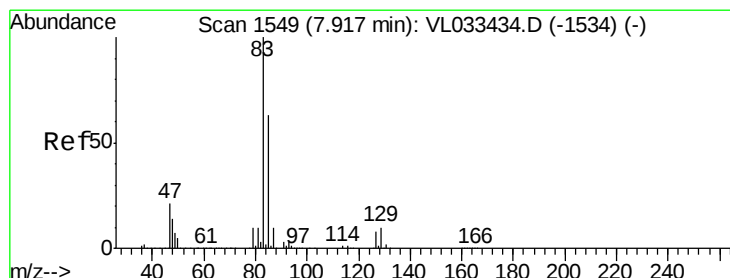
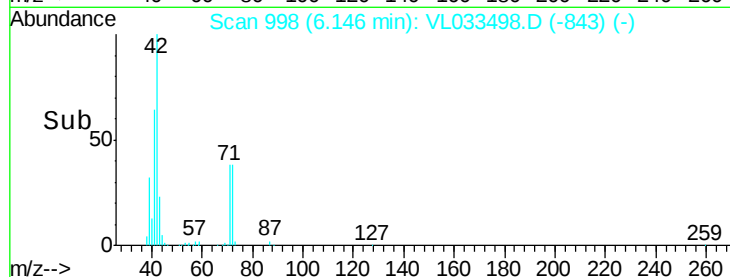
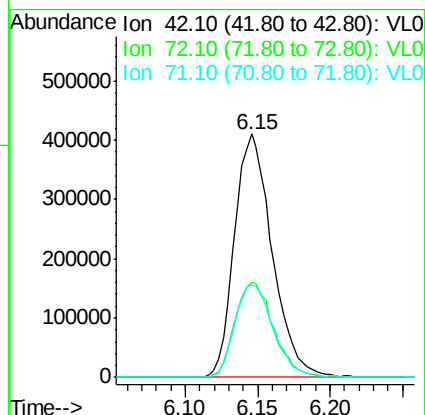
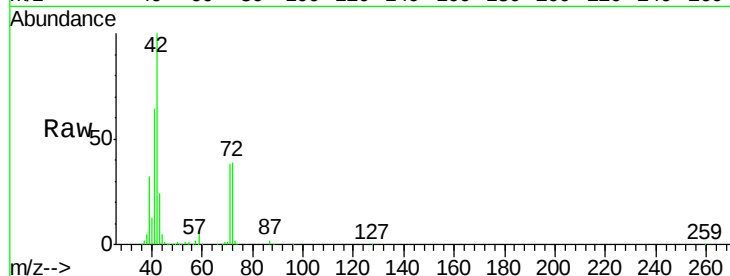
ClientSampleId :

VL0329ABS01

Tot Ion:	42	Resp:	741984
Ion	Ratio	Lower	Upper
42	100		
72	39.7	30.2	45.2
71	39.2	29.4	44.2

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#42

Bromodichloromethane

Concen: 10.379 ppbv

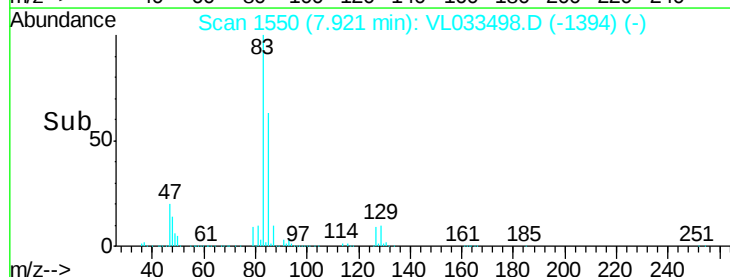
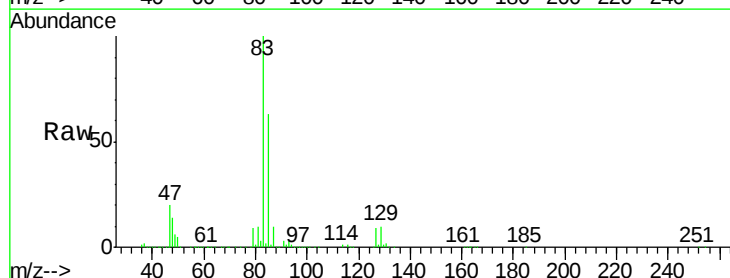
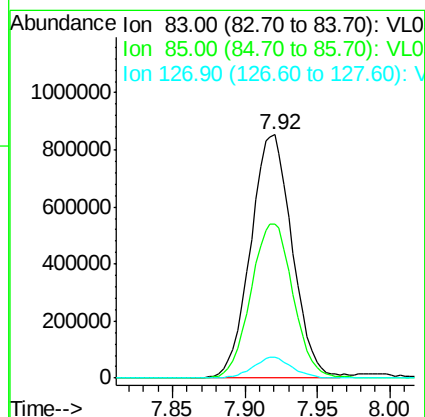
RT: 7.92 min Scan# 1550

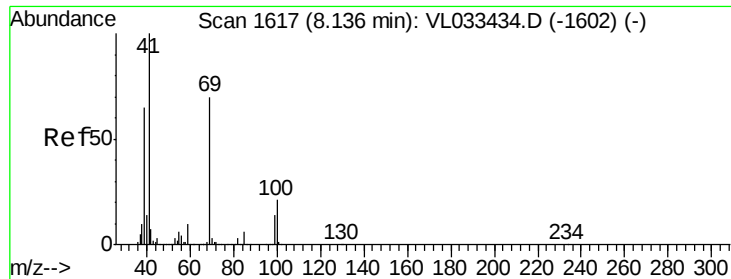
Delta R.T. 0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Tgt Ion:	83	Resp:	1697737
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.7	76.1
127	8.7	6.6	9.8





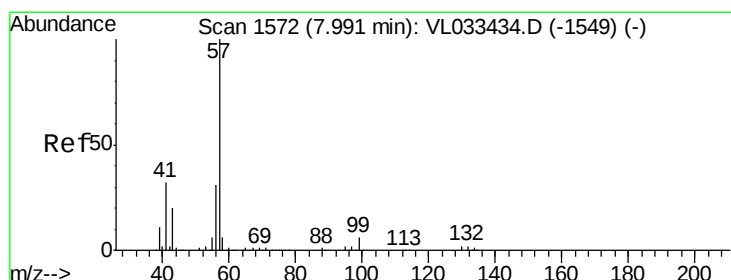
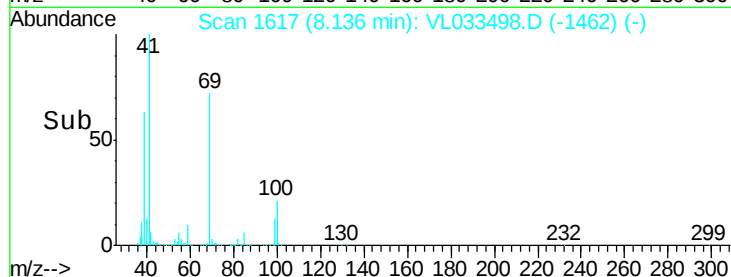
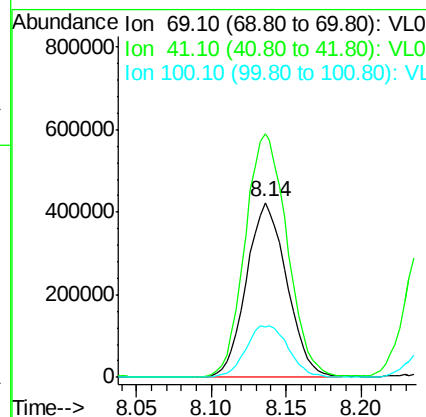
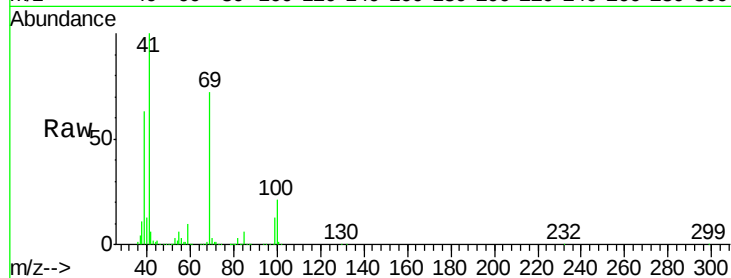
#43
Methvl Methacrilate
Concen: 10.961 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleId :
VL0329ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	144.9	116.6	174.8
100	31.0	24.4	36.6

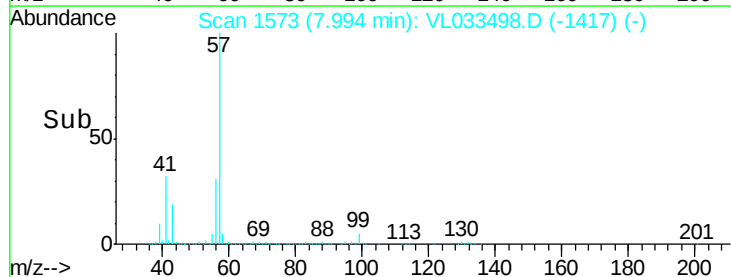
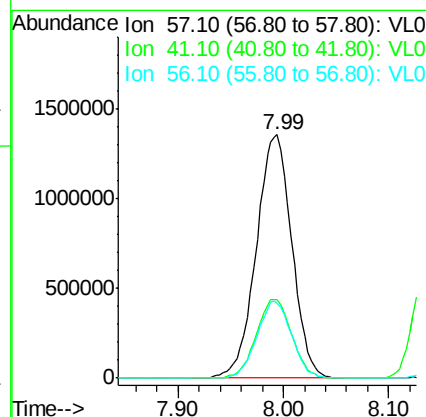
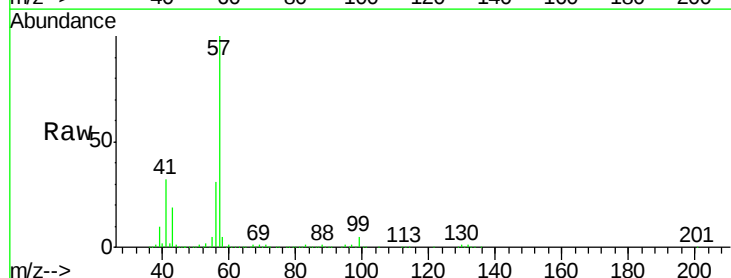
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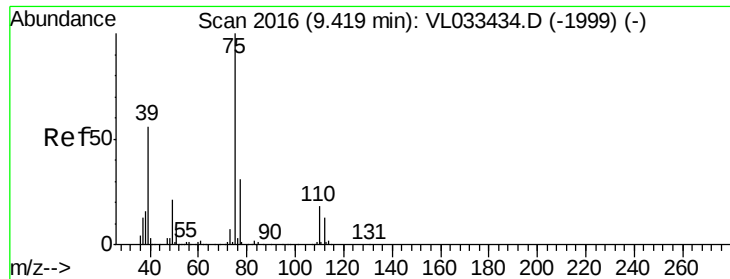
MMDadoda
4/1/2019 4:03:07 AM



#44
2,2,4-Trimethylpentane
Concen: 10.195 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.2	26.0	39.0
56	30.9	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 11.927 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 75 Resp: 1065376

Ion Ratio Lower Upper

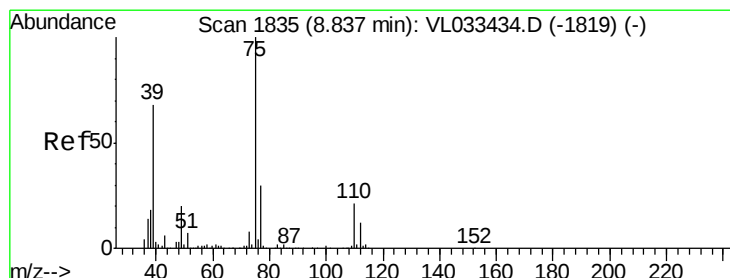
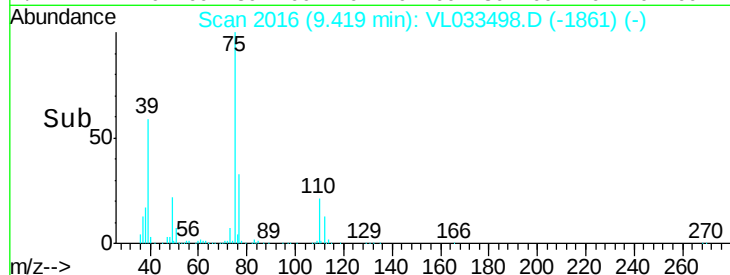
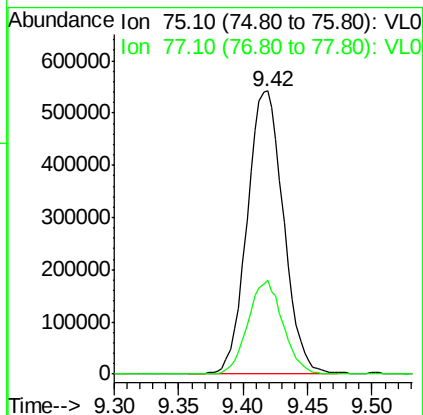
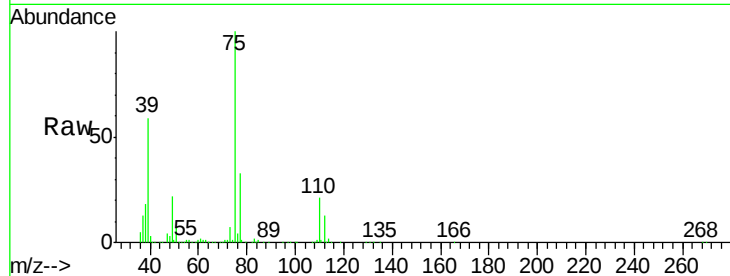
75 100

77 33.1 24.5 36.7

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#46

cis-1,3-Dichloropropene

Concen: 11.747 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

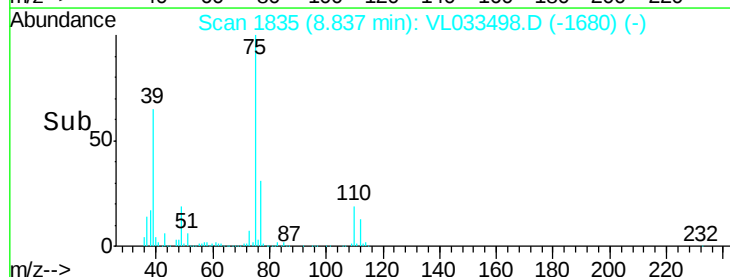
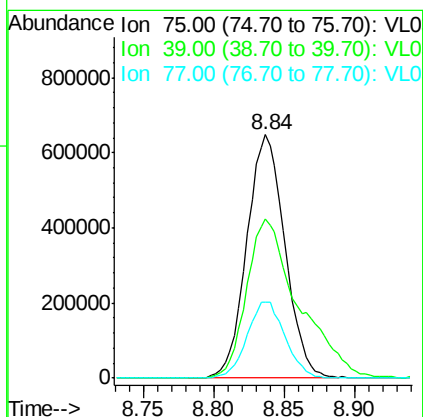
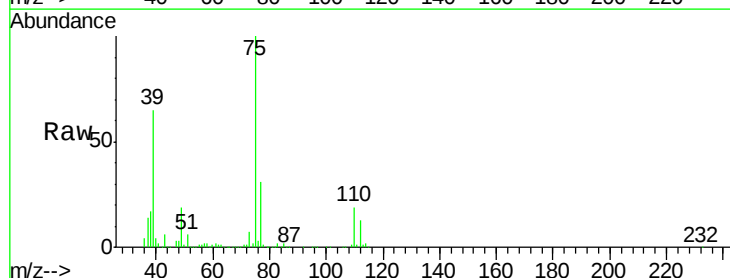
Tgt Ion: 75 Resp: 1225423

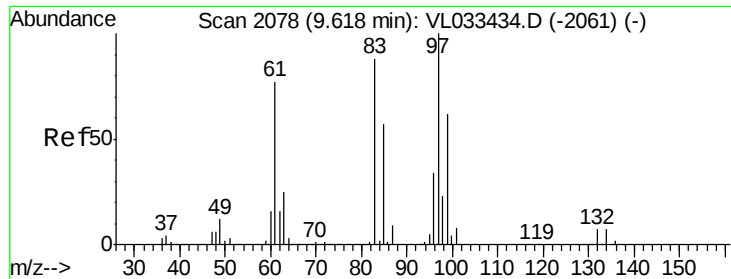
Ion Ratio Lower Upper

75 100

39 65.3 54.1 81.1

77 31.2 23.9 35.9





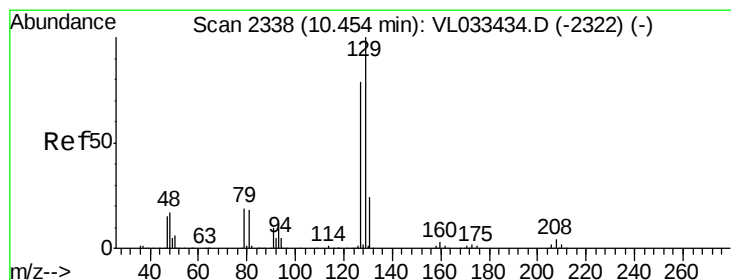
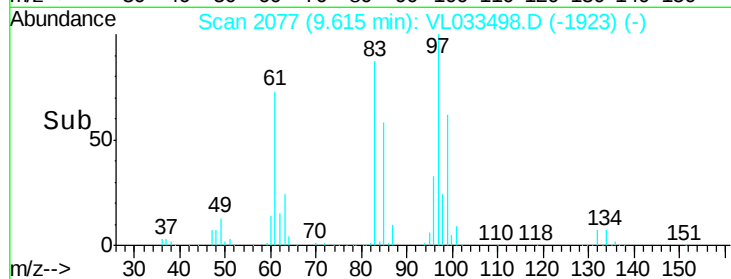
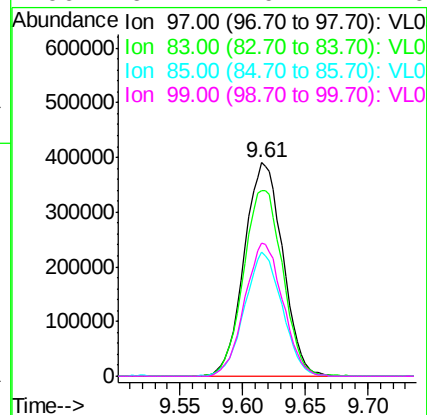
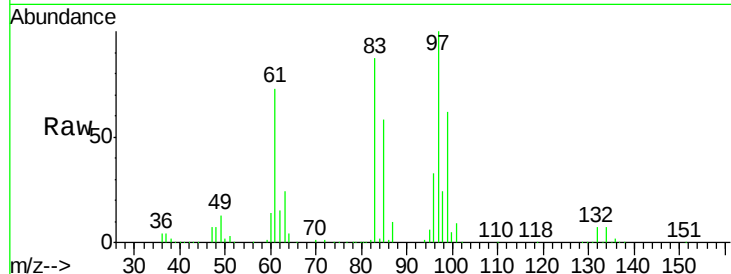
#47
 1,1,2-Trichloroethane
 Concen: 10.460 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.1	70.5	105.7	
85	57.8	45.6	68.4	
99	62.1	49.4	74.0	

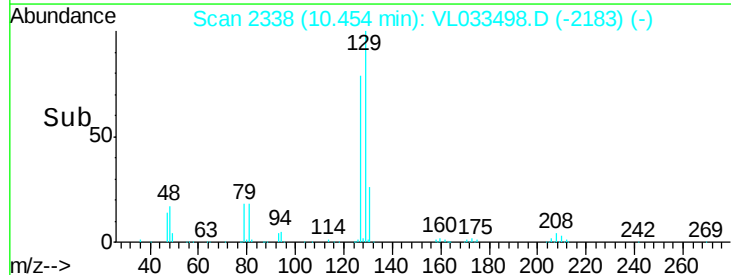
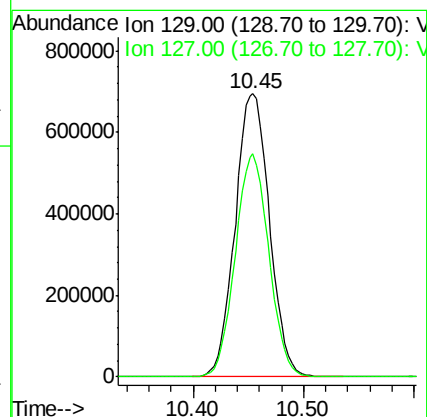
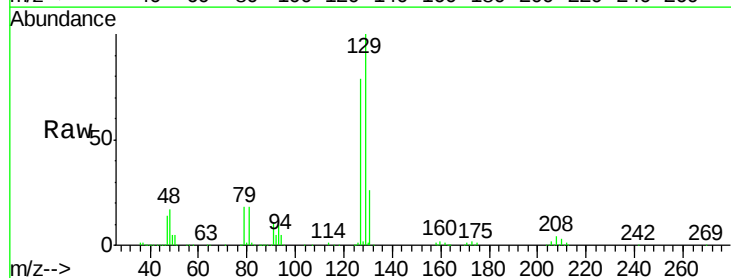
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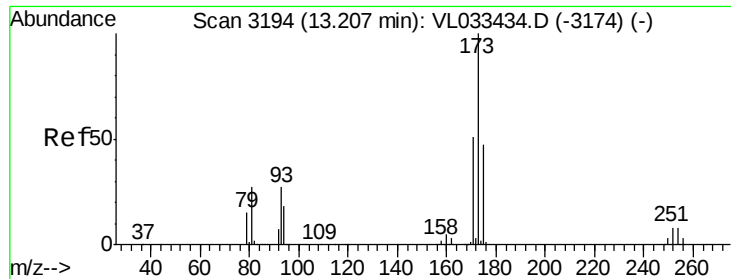
MMDadoda
 4/1/2019 4:03:07 AM



#48
 Dibromochloromethane
 Concen: 11.143 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.3	39.1	117.2	





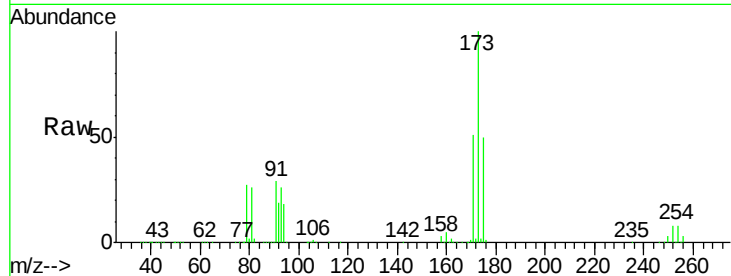
#49
Bromoform
Concen: 10.627 ppbv
RT: 13.20 min Scan# 3193
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleId :
VL0329ABS01

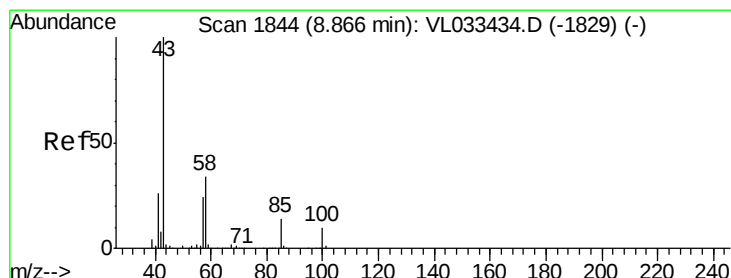
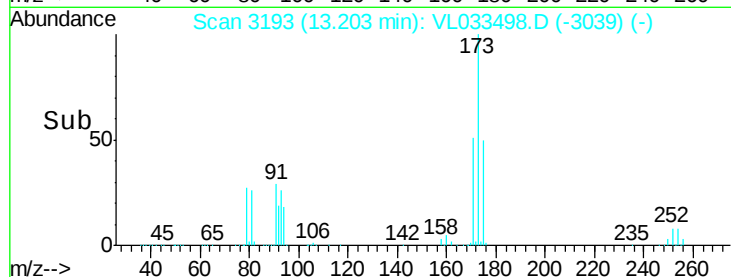
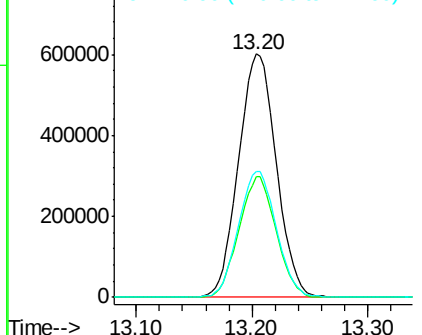
Tot Ion:173 Resp: 1364886
Ion Ratio Lower Upper
173 100
175 48.8 39.3 58.9
171 51.9 41.2 61.8

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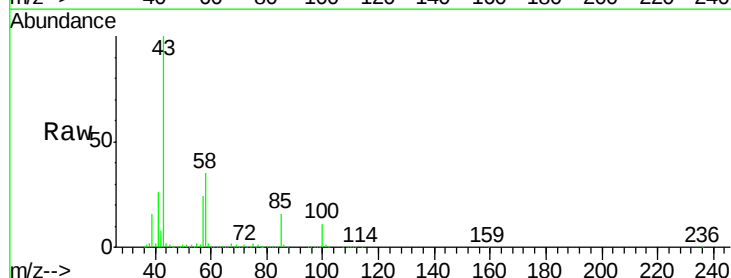


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

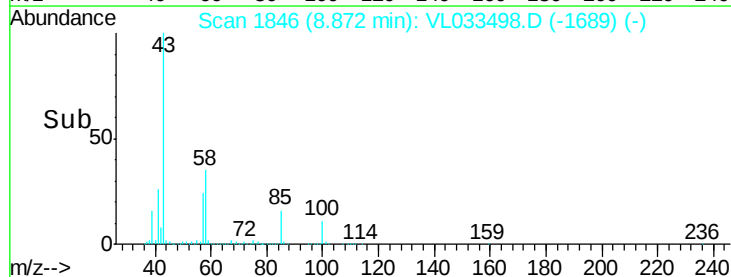
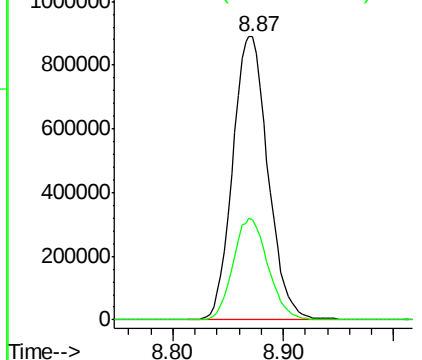


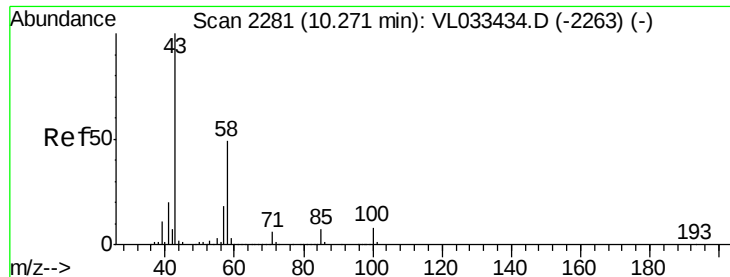
#50
4-Methyl-2-Pentanone
Concen: 10.476 ppbv
RT: 8.87 min Scan# 1846
Delta R.T. 0.01 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion: 43 Resp: 1968108
Ion Ratio Lower Upper
43 100
58 35.4 28.0 42.0



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





#51

2-Hexanone

Concen: 11.126 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 43 Resp: 1559231

Ion Ratio Lower Upper

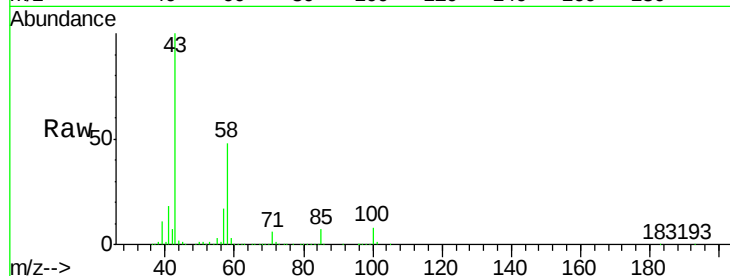
43 100

58 48.3 38.2 57.2

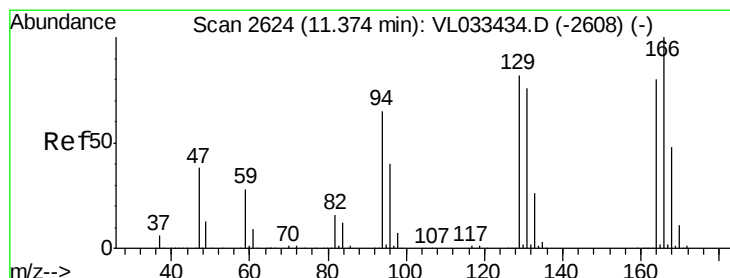
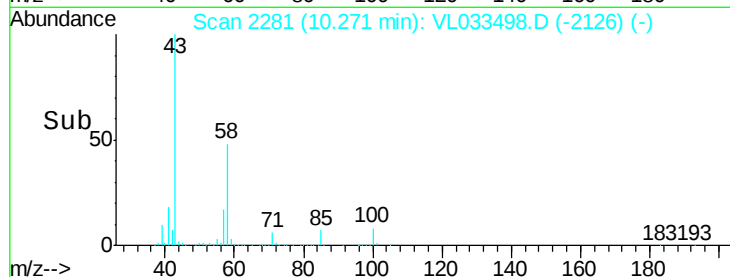
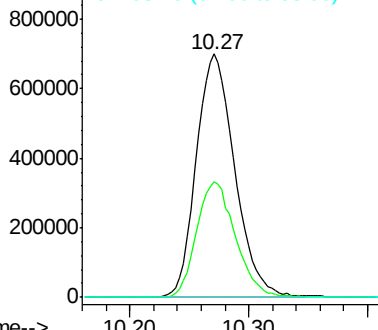
98 0.2 0.2 0.2

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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: 11.423 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Tgt Ion: 164 Resp: 772268

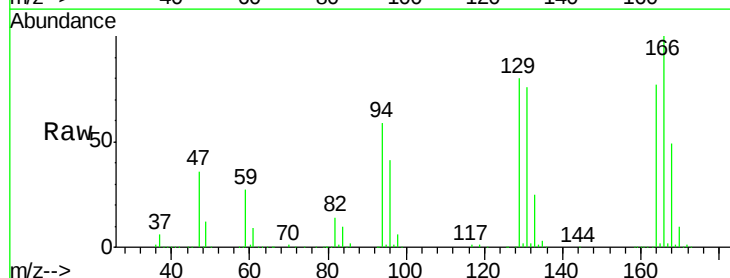
Ion Ratio Lower Upper

164 100

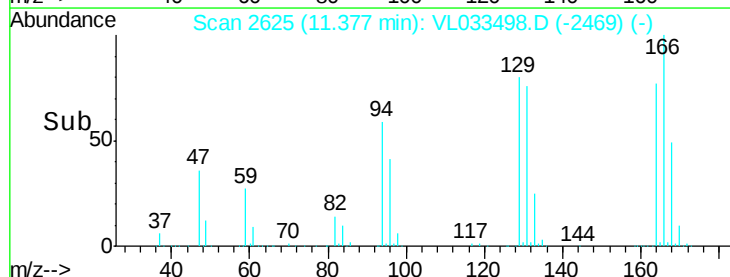
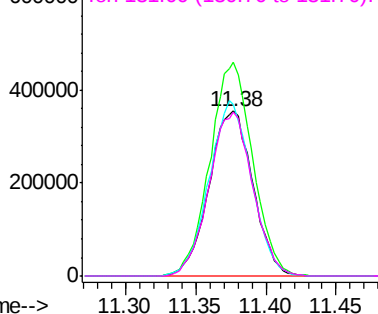
166 129.6 99.5 149.3

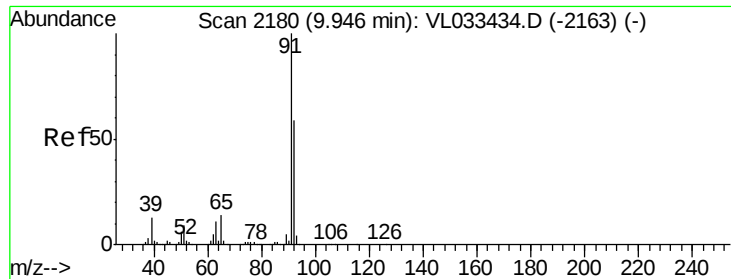
129 104.1 81.4 122.2

131 99.3 75.6 113.4



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: 11.261 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 91 Resp: 2344759

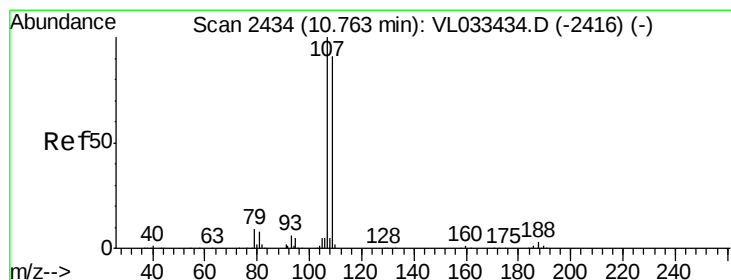
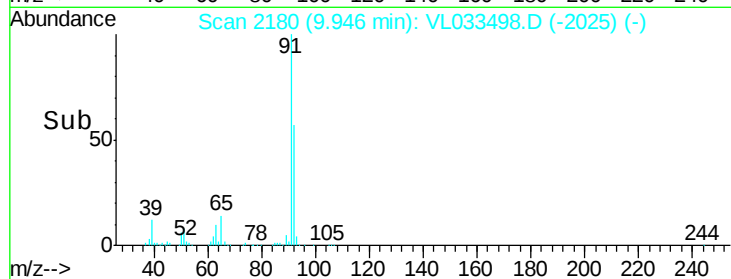
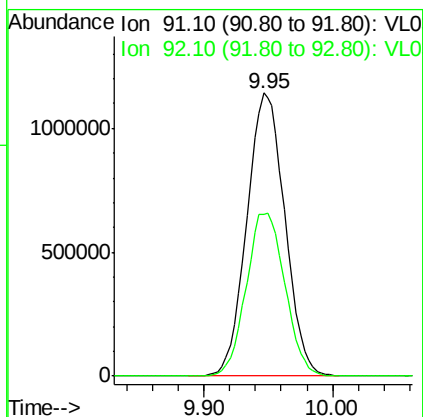
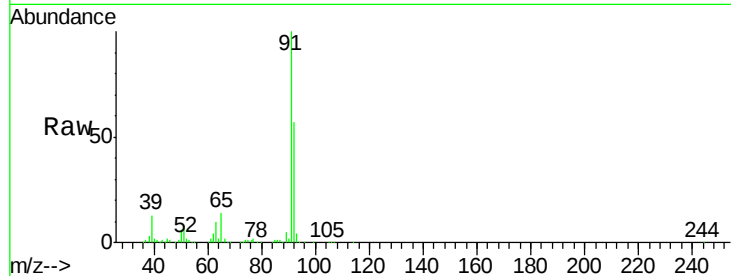
Ion Ratio Lower Upper

91 100

92 59.0 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 10.813 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033498.D

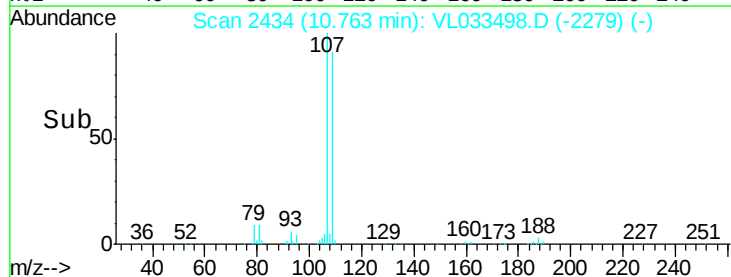
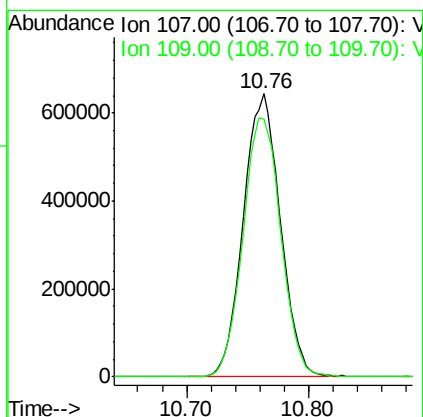
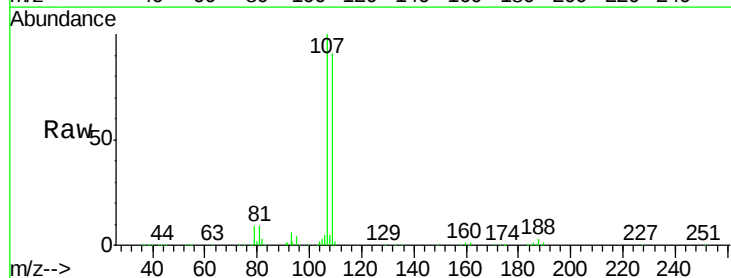
Acq: 29 Mar 2019 12:08

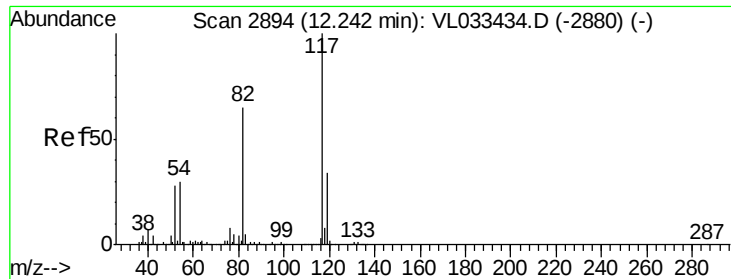
Tgt Ion: 107 Resp: 1348008

Ion Ratio Lower Upper

107 100

109 91.2 72.7 109.1





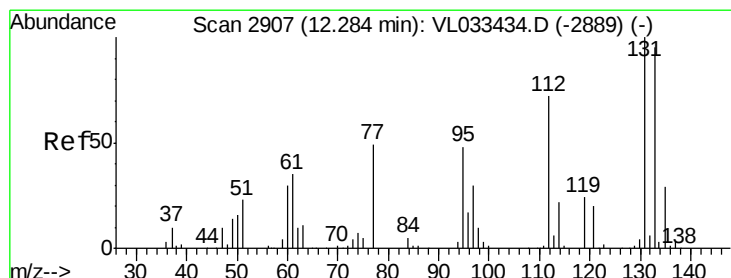
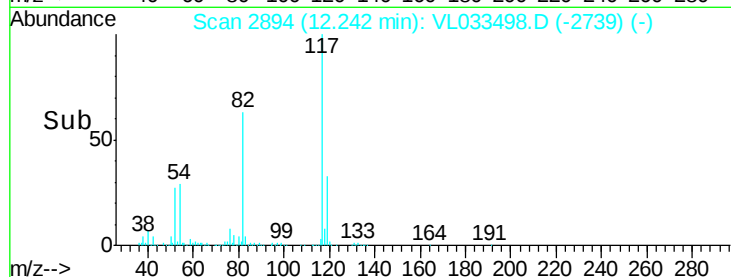
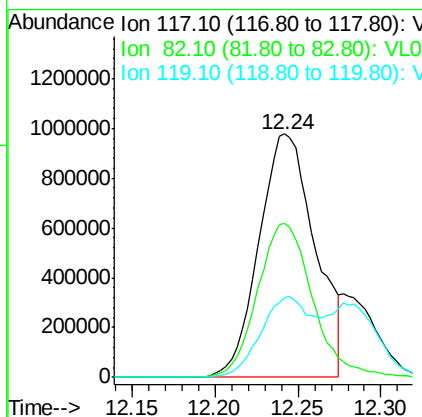
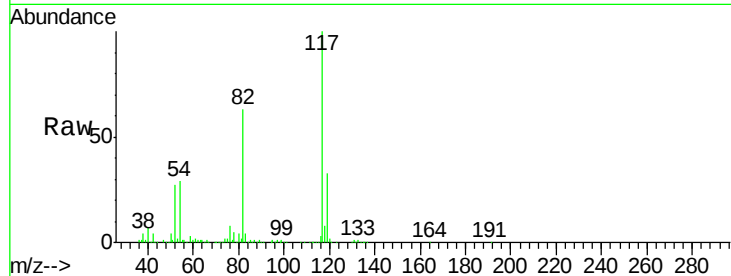
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleId :
VL0329ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.6	51.5	77.3
119	29.6	25.5	38.3

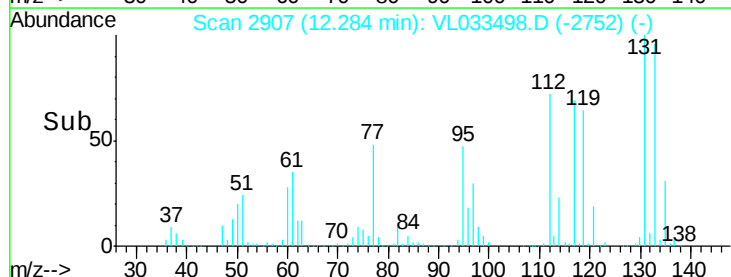
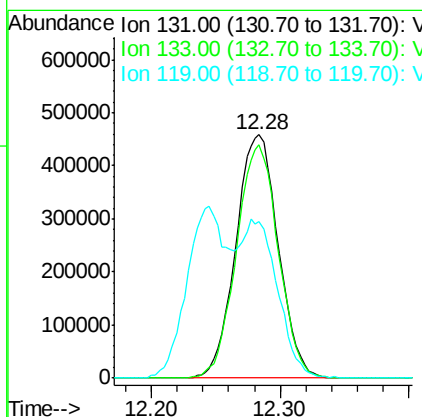
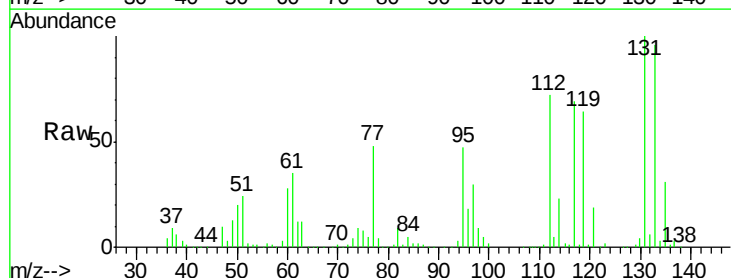
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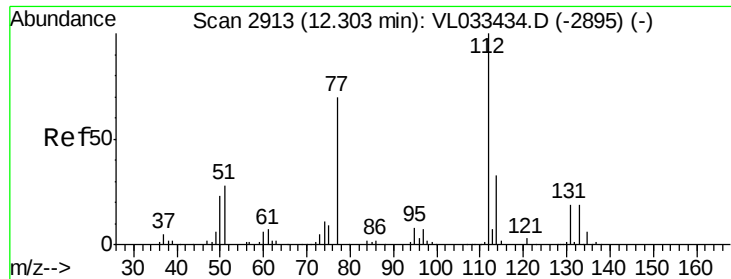
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.908 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	76.2	114.4
119	57.6	45.0	67.6





#57

Chlorobenzene

Concen: 10.005 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:112 Resp: 1784506

Ion Ratio Lower Upper

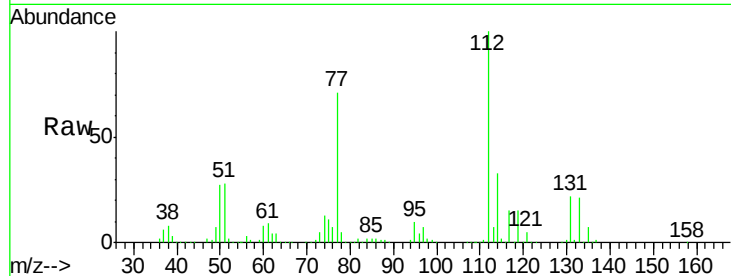
112 100

77 70.4 57.3 85.9

114 32.8 29.8 36.4

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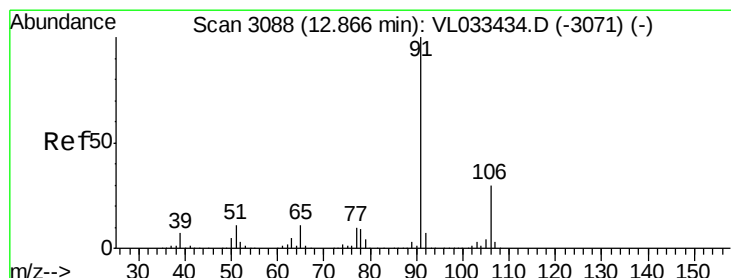
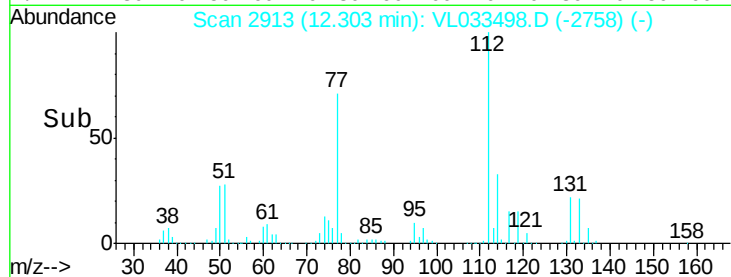
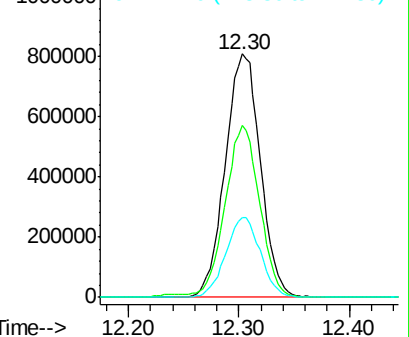
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.783 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL033498.D

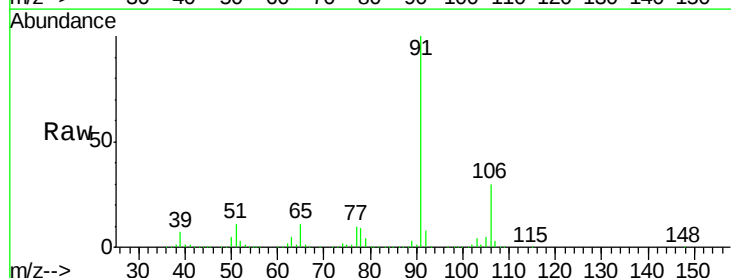
Acq: 29 Mar 2019 12:08

Tgt Ion: 91 Resp: 3307656

Ion Ratio Lower Upper

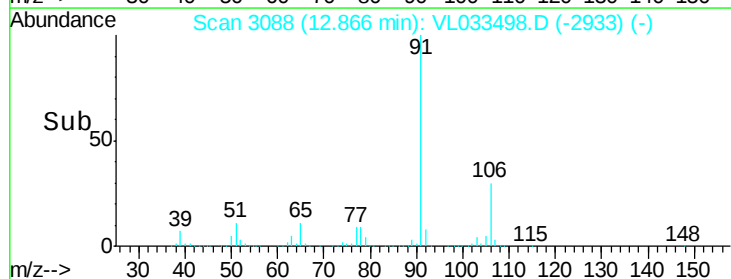
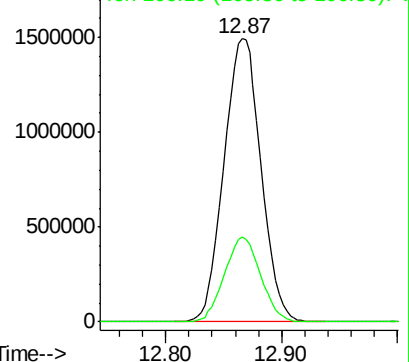
91 100

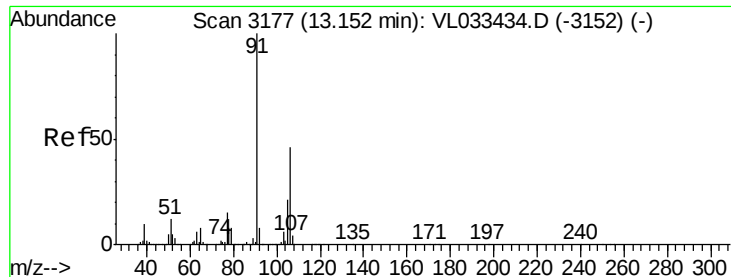
106 30.2 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





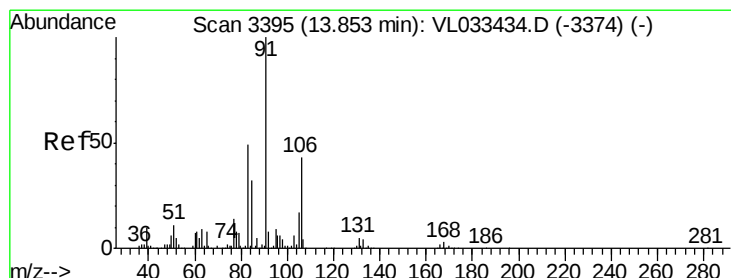
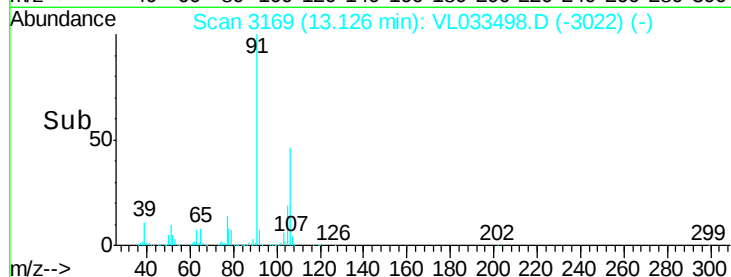
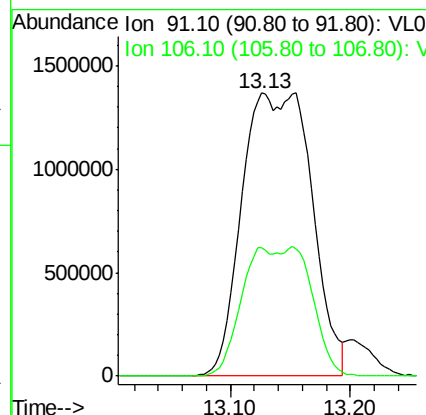
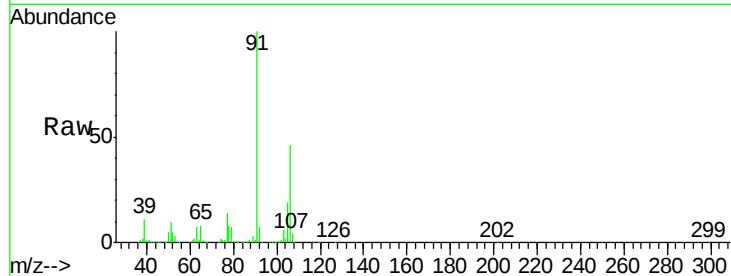
#59
m/p-Xylene
Concen: 20.209 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleId :
VL0329ABS01

Tot Ion: 91 Resp: 5536844
Ion Ratio Lower Upper
91 100
106 45.0 0.0 0.0#

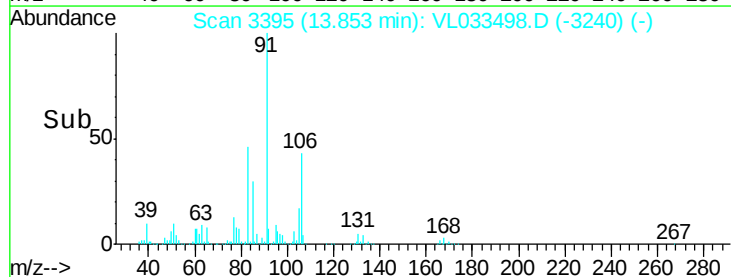
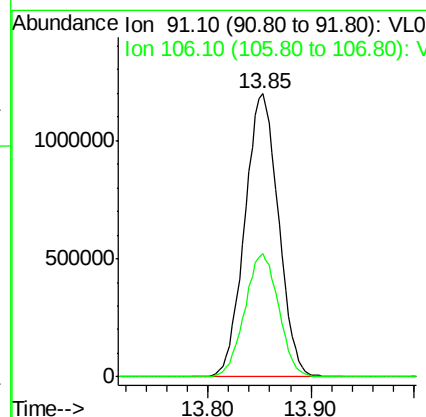
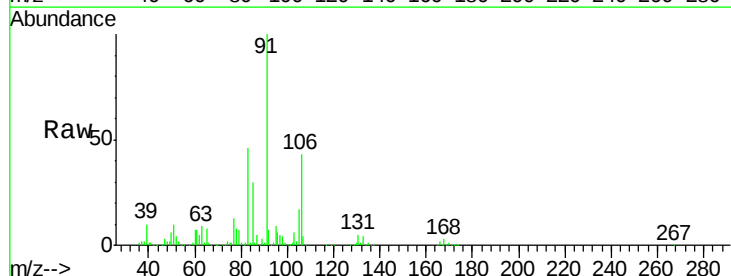
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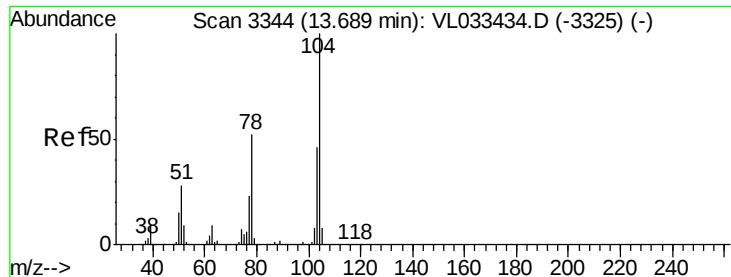
MMDadoda
4/1/2019 4:03:07 AM



#60
o-Xylene
Concen: 10.241 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion: 91 Resp: 2713272
Ion Ratio Lower Upper
91 100
106 43.7 21.4 64.3





#61

Stvrene

Concen: 11.298 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:104 Resp: 2054346

Ion Ratio Lower Upper

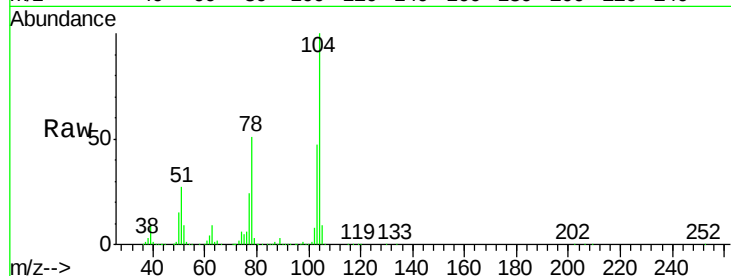
104 100

78 52.5 43.2 64.8

103 48.0 37.8 56.8

Manual Integrations
APPROVED

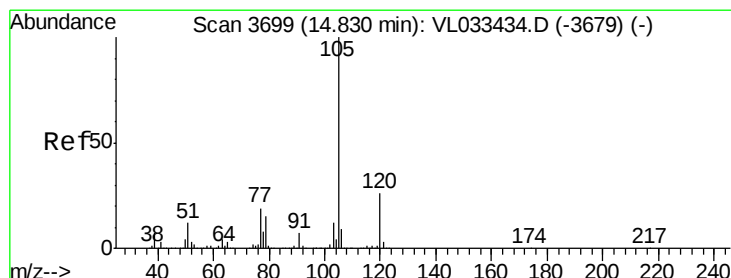
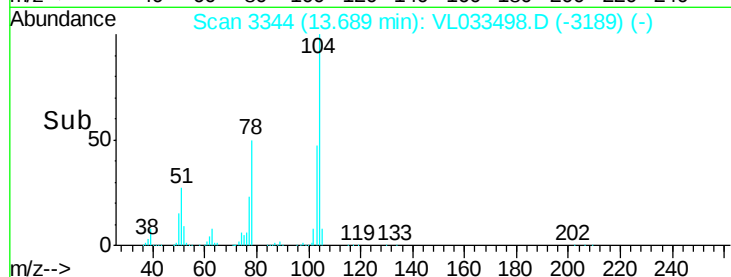
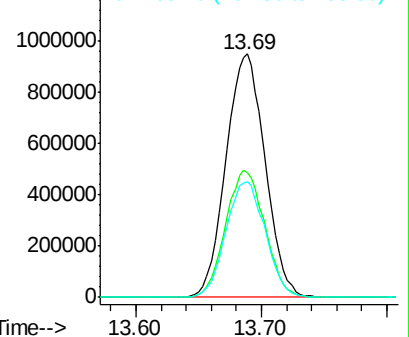
MMDadoda
4/1/2019 4:03:07 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.236 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL033498.D

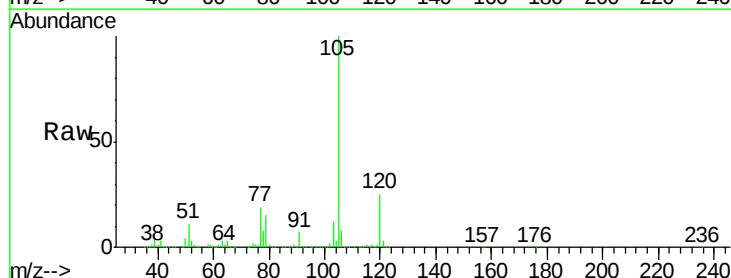
Acq: 29 Mar 2019 12:08

Tgt Ion:105 Resp: 3840318

Ion Ratio Lower Upper

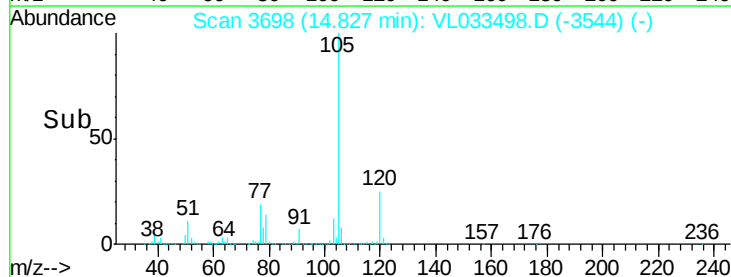
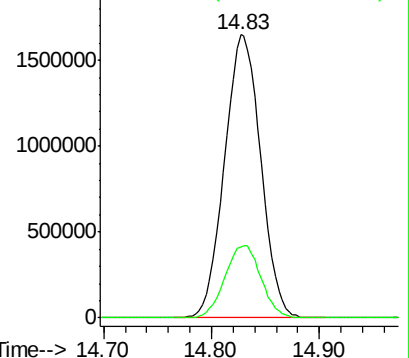
105 100

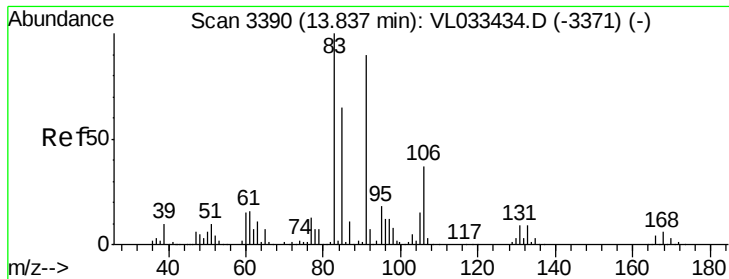
120 25.5 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





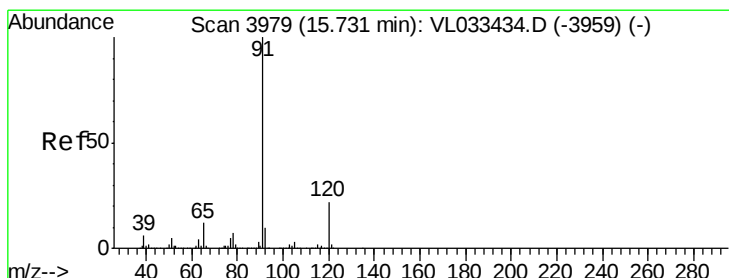
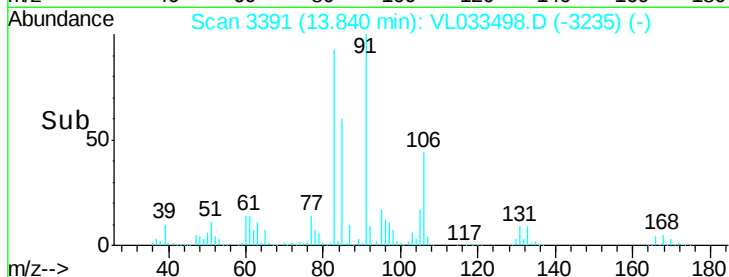
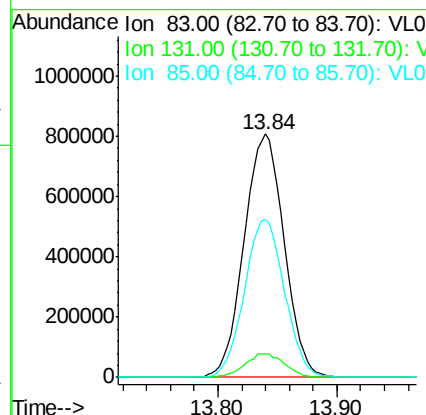
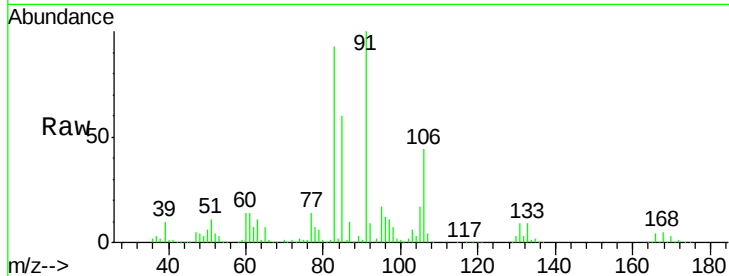
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.658 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Tot Ion: 83 Resp: 1884142
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.7 14.0
 85 64.8 32.7 98.1

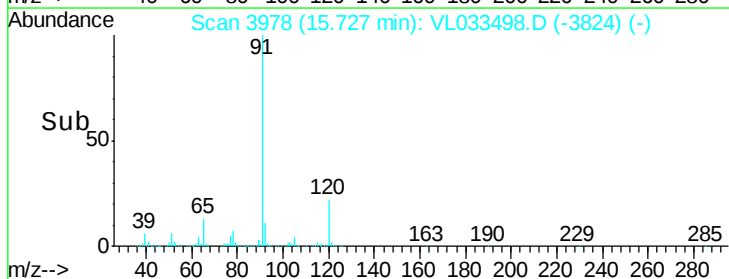
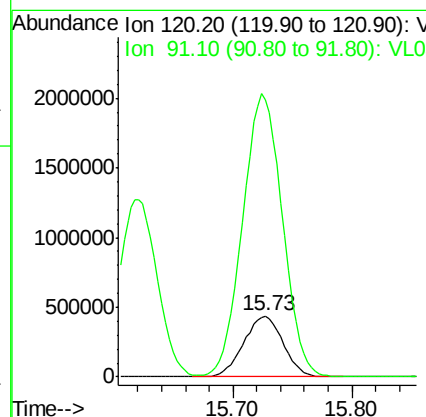
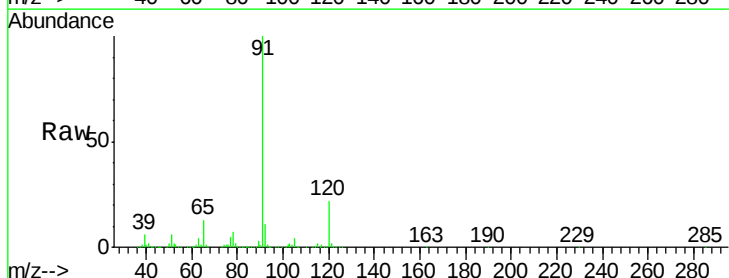
Manual Integrations
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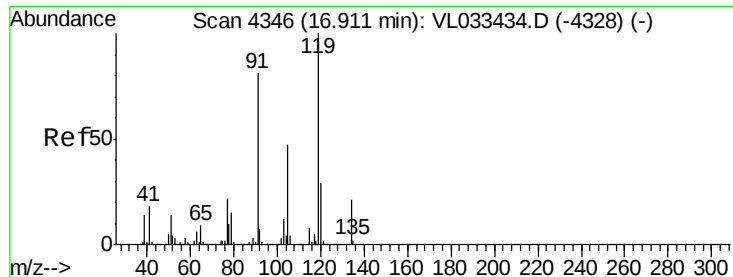
MMDadoda
 4/1/2019 4:03:07 AM



#64
 n-propylbenzene
 Concen: 10.458 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Tgt Ion: 120 Resp: 995628
 Ion Ratio Lower Upper
 120 100
 91 472.9 387.4 581.2





#65

tert-Butylbenzene

Concen: 10.471 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:119 Resp: 3461729

Ion Ratio Lower Upper

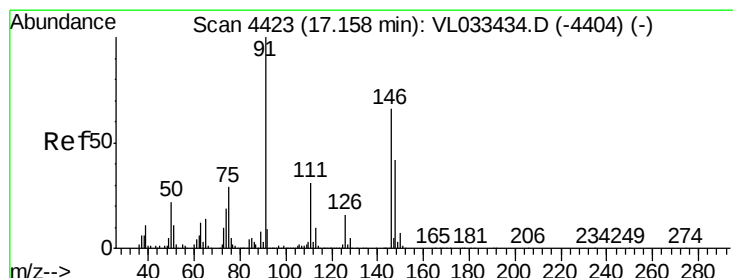
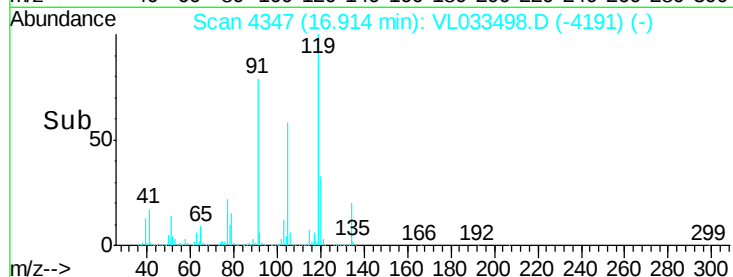
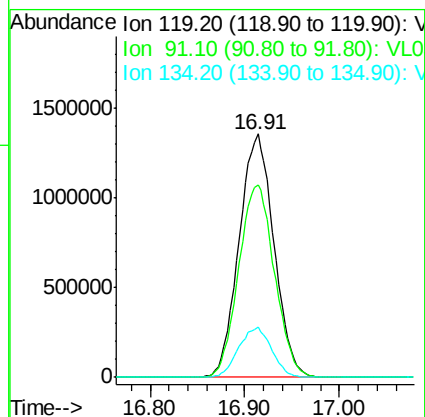
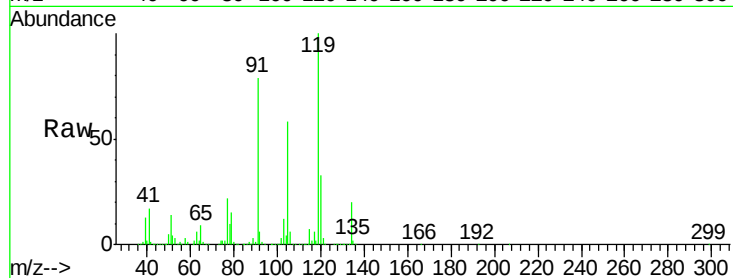
119 100

91 81.7 66.4 99.6

134 19.5 15.5 23.3

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4/1/2019 4:03:07 AM



#66

Benzyl Chloride

Concen: 11.990 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. 0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

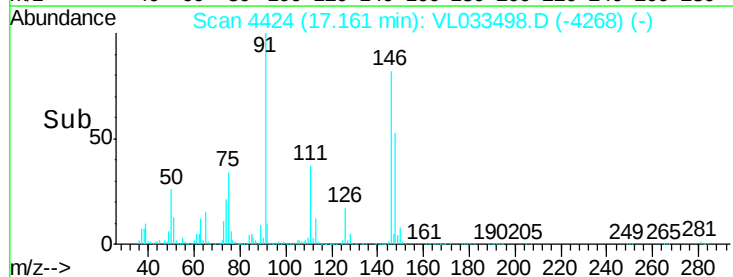
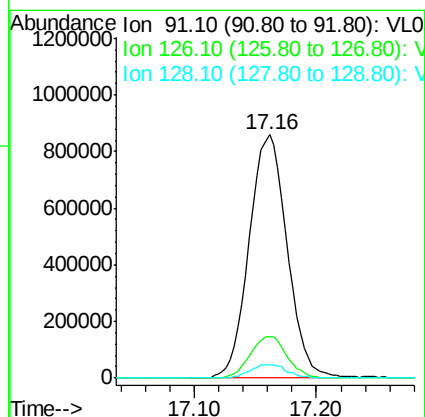
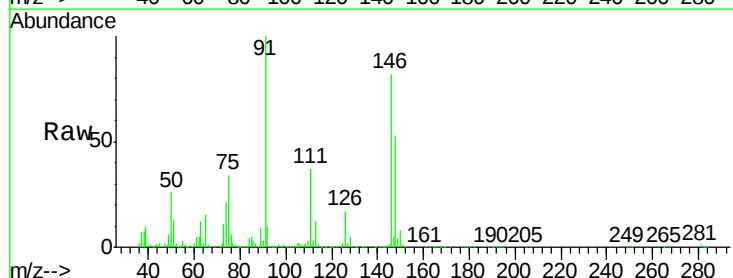
Tgt Ion: 91 Resp: 1843307

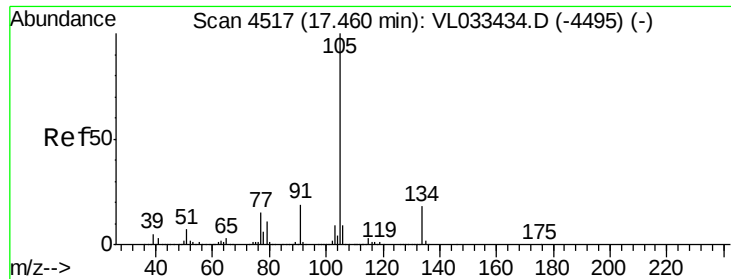
Ion Ratio Lower Upper

91 100

126 16.7 13.0 19.6

128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 10.412 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:105 Resp: 4895312

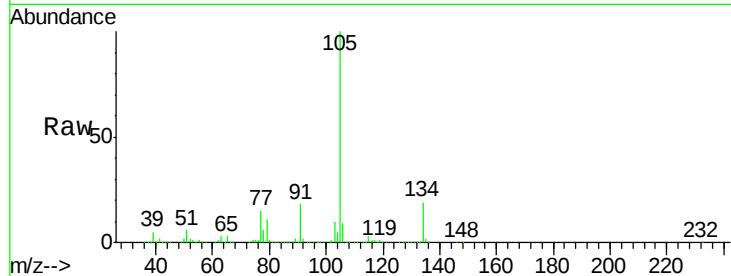
Ion Ratio Lower Upper

105 100

134 18.1 14.6 21.8

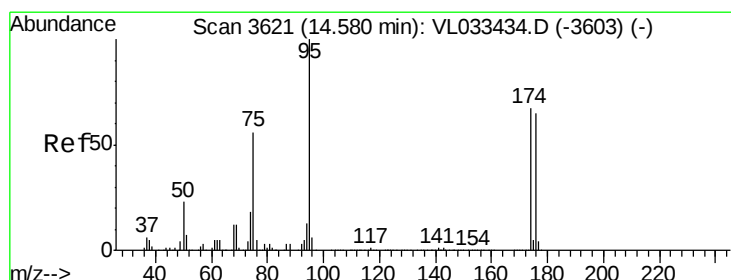
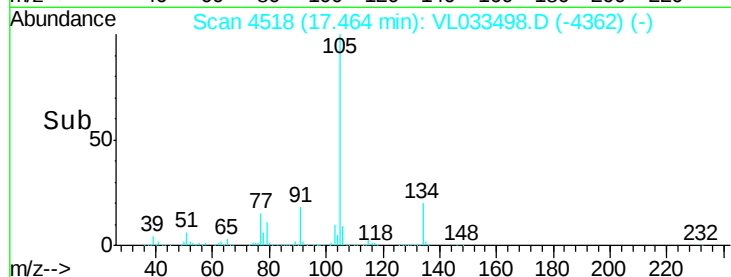
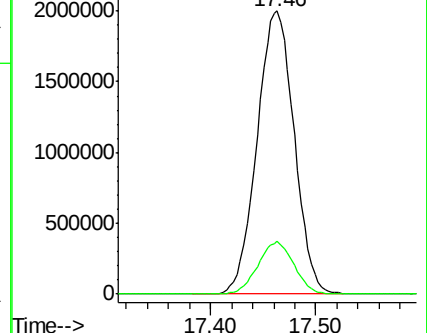
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.367 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

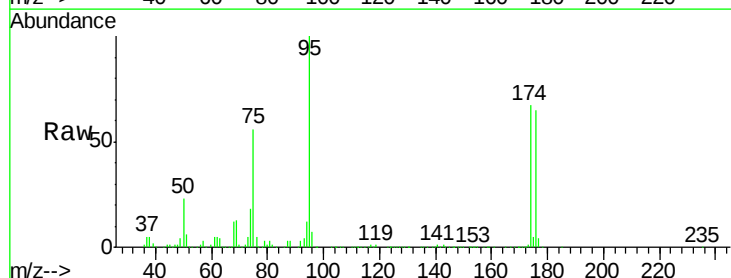
Tgt Ion: 95 Resp: 1686731

Ion Ratio Lower Upper

95 100

174 67.7 52.9 79.3

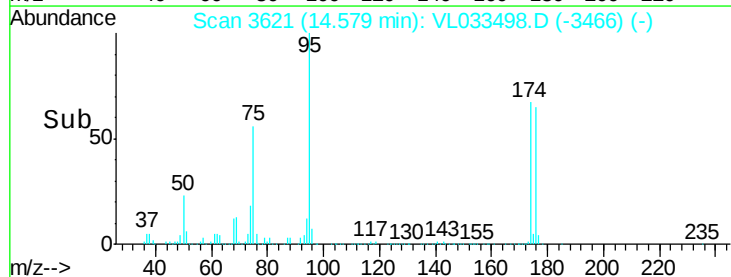
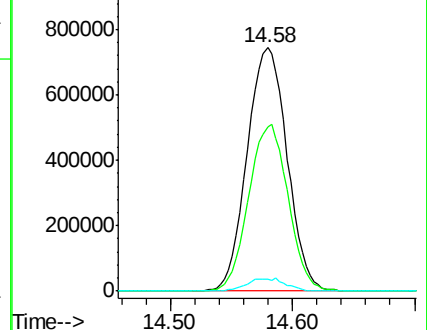
175 5.0 3.8 5.6

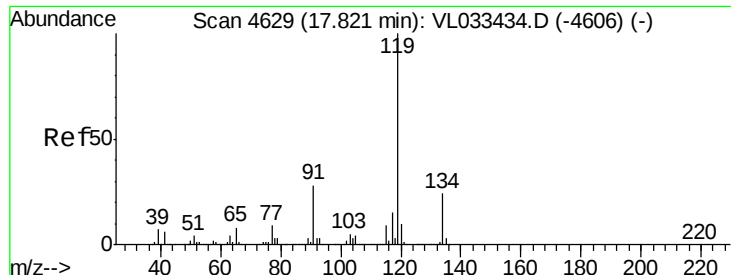


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





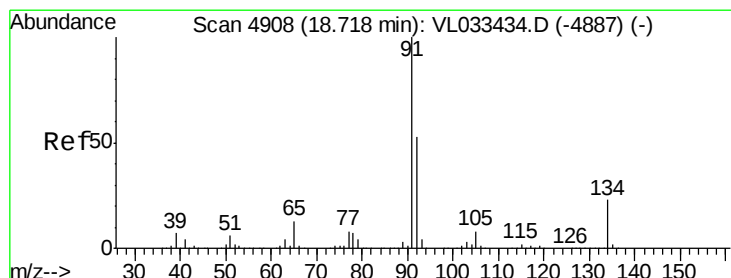
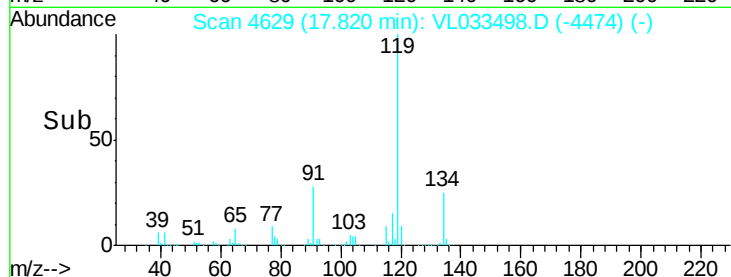
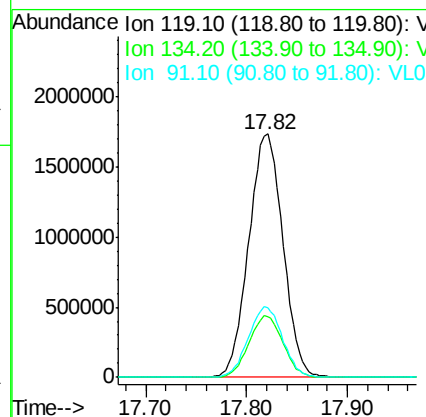
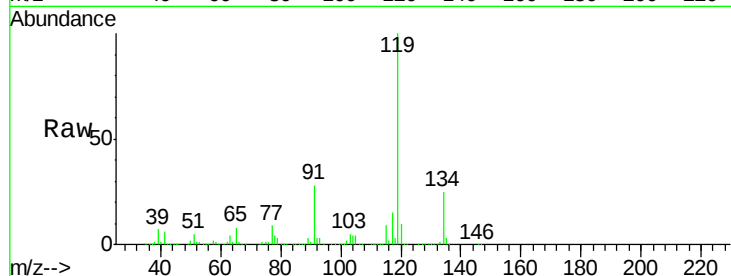
#69
p-Isopropyltoluene
Concen: 10.637 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Instrument :
MSVOA_L
ClientSampleId :
VL0329ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	19.9	29.9
91	29.0	23.4	35.0

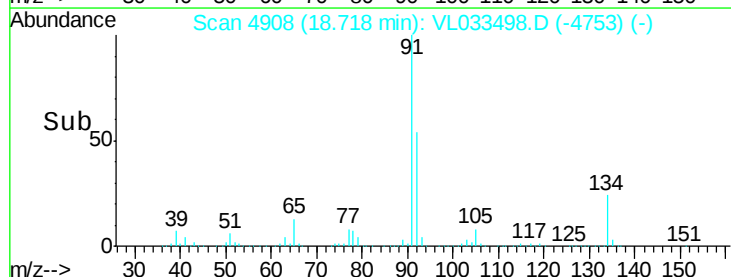
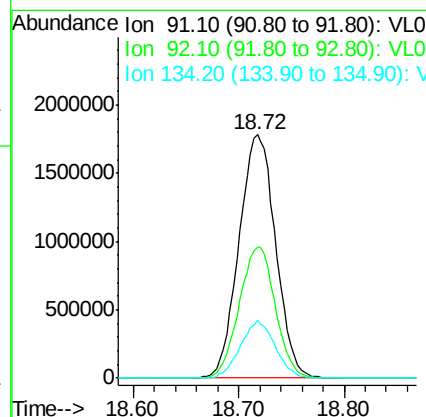
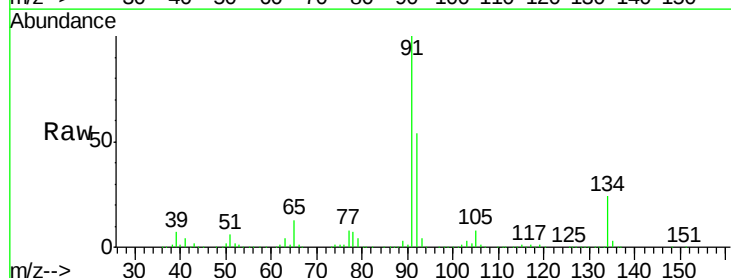
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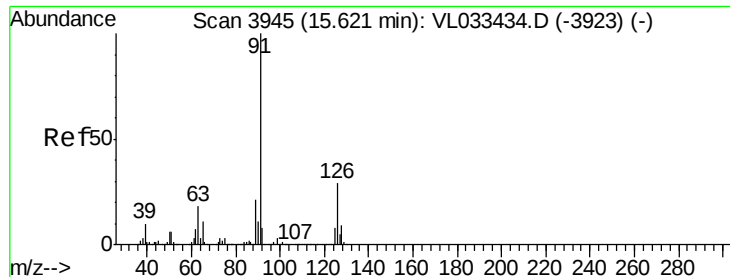
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#70
n-Butylbenzene
Concen: 10.550 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033498.D
Acq: 29 Mar 2019 12:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.6	64.0
134	22.4	17.5	26.3





#71

2-Chlorotoluene

Concen: 10.407 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion: 91 Resp: 2969058

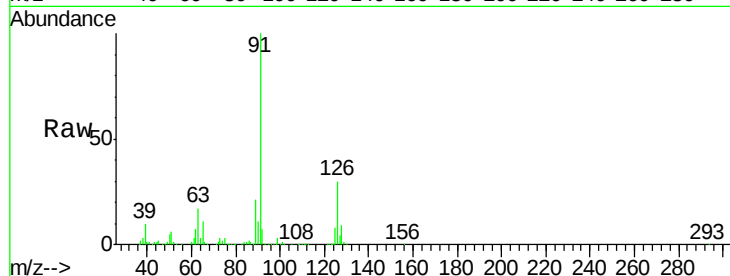
Ion Ratio Lower Upper

91 100

126 30.0 11.7 46.9

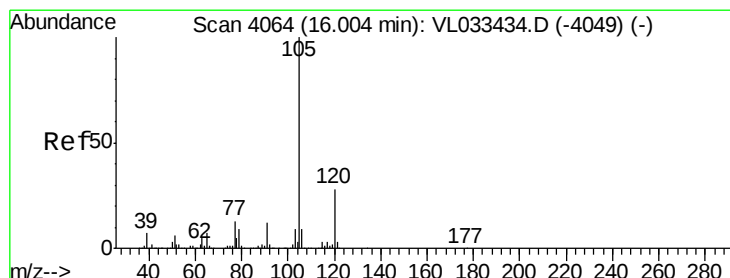
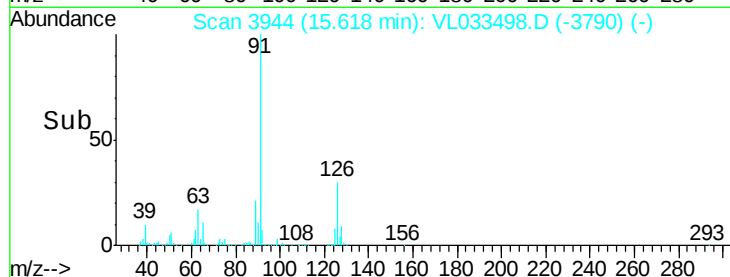
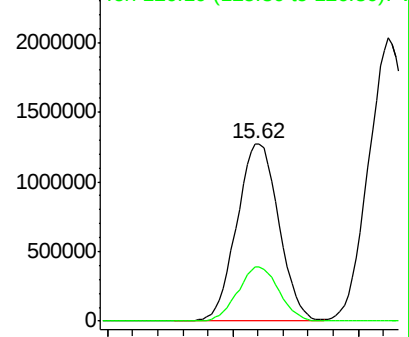
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.762 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Tgt Ion:105 Resp: 3205007

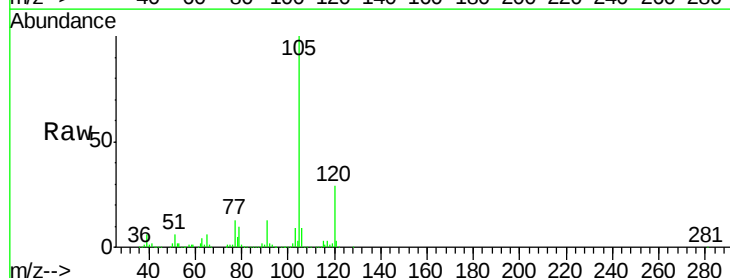
Ion Ratio Lower Upper

105 100

120 28.8 23.2 34.8

91 13.1 10.4 15.6

77 13.5 11.3 16.9

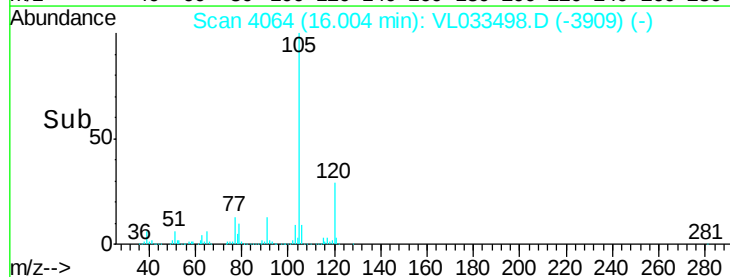
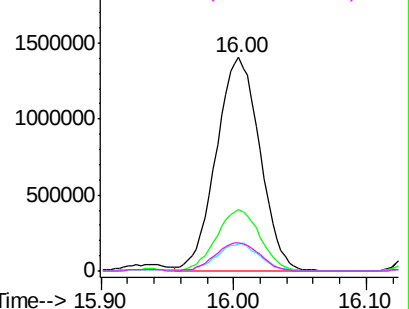


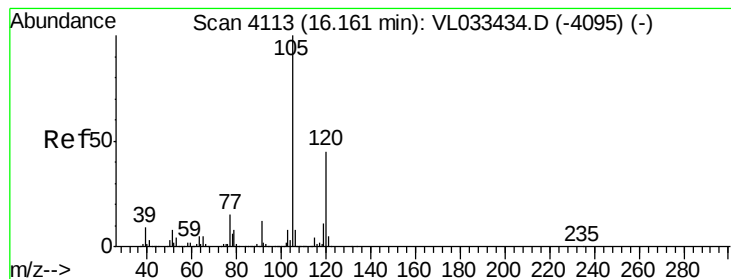
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.792 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:105 Resp: 3075652

Ion Ratio Lower Upper

105 100

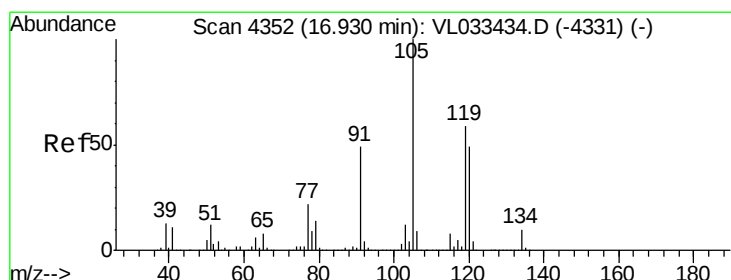
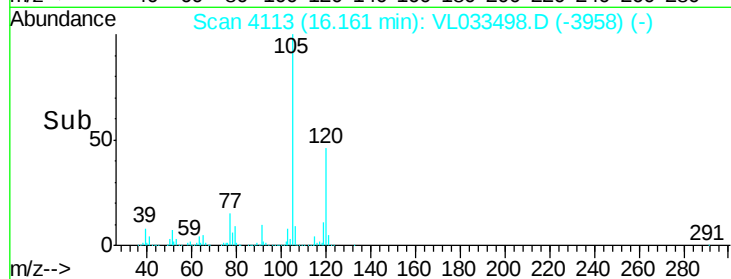
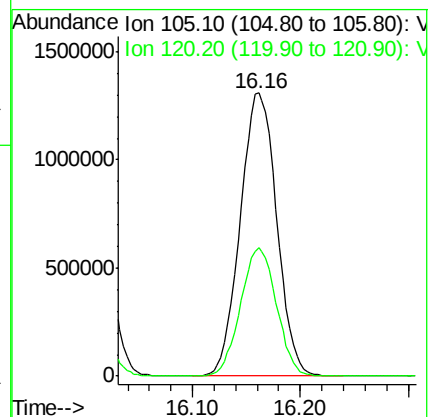
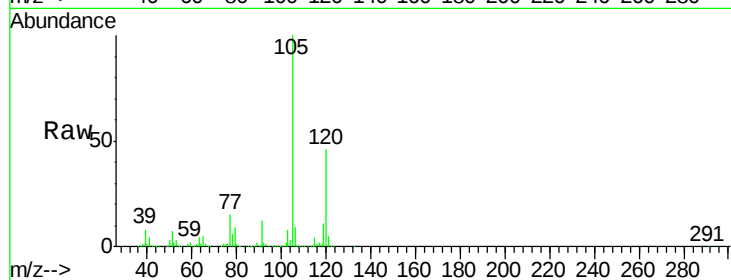
120 45.6 35.7 53.5

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#74

1,2,4-Trimethylbenzene

Concen: 10.419 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Tgt Ion:105 Resp: 3182825

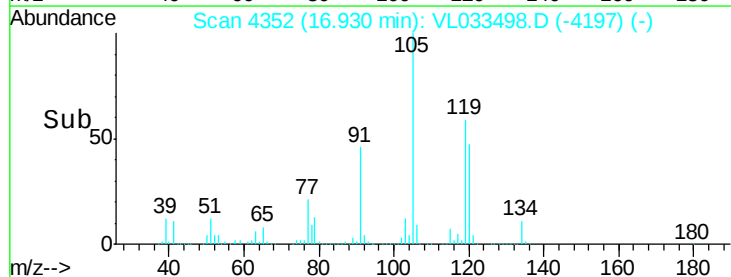
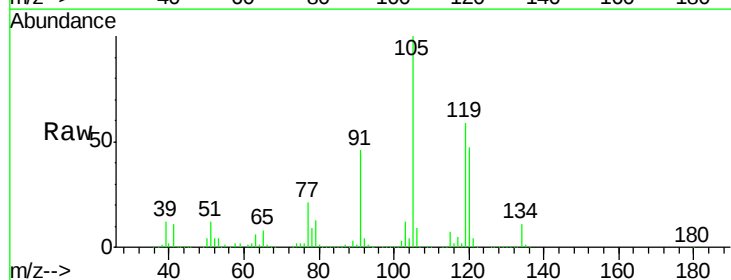
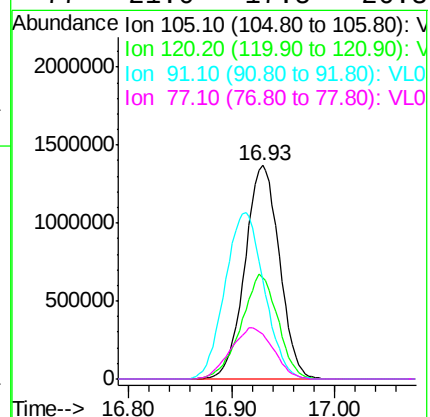
Ion Ratio Lower Upper

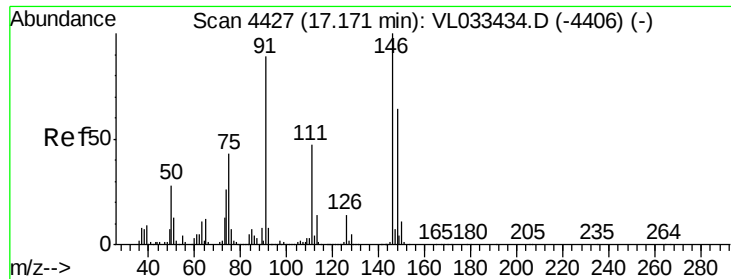
105 100

120 47.2 39.0 58.6

91 46.3 40.0 60.0

77 21.0 17.5 26.3





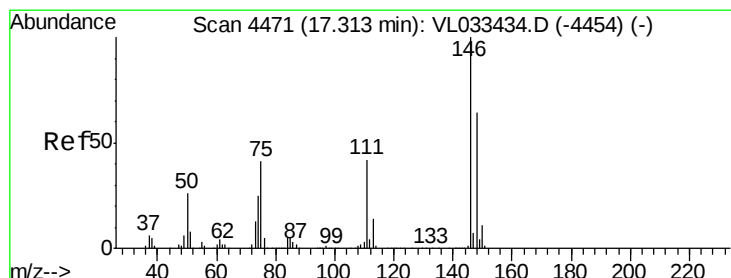
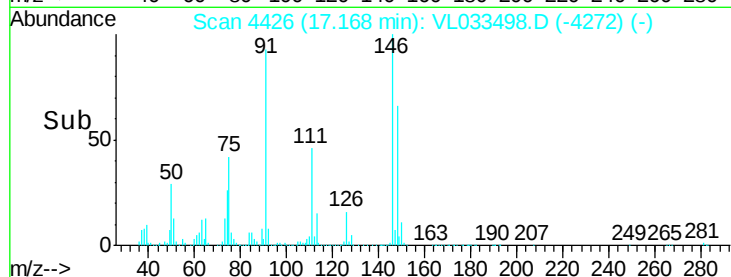
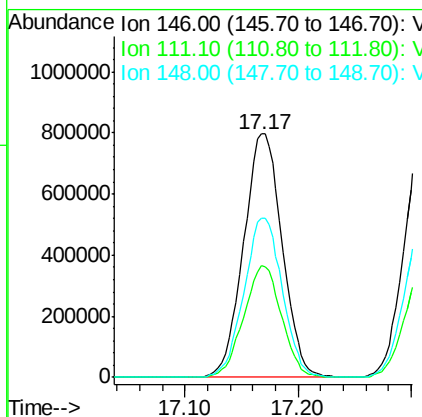
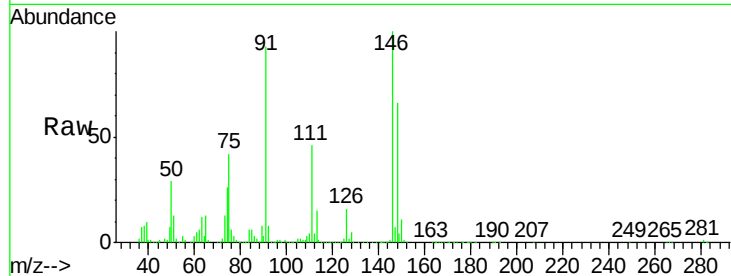
#75
 1,3-Dichlorobenzene
 Concen: 9.998 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Tot Ion:146 Resp: 1887699
 Ion Ratio Lower Upper
 146 100
 111 45.0 22.9 68.8
 148 65.1 32.0 96.2

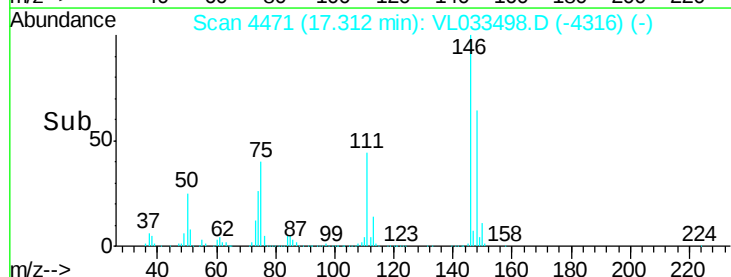
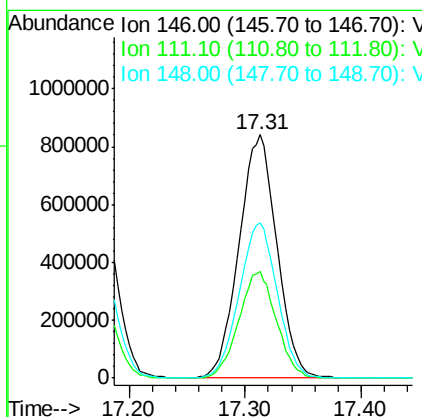
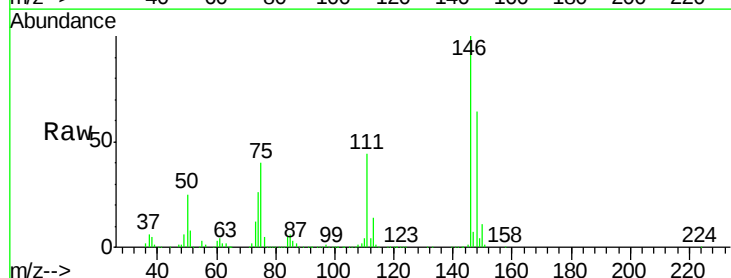
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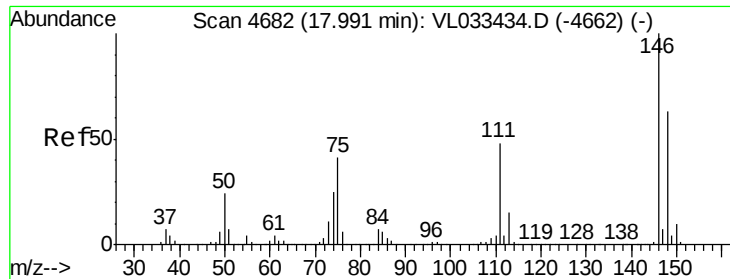
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#76
 1,4-Dichlorobenzene
 Concen: 10.310 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Tgt Ion:146 Resp: 1896501
 Ion Ratio Lower Upper
 146 100
 111 43.6 21.7 65.1
 148 64.5 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 10.290 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:146 Resp: 1843346

Ion Ratio Lower Upper

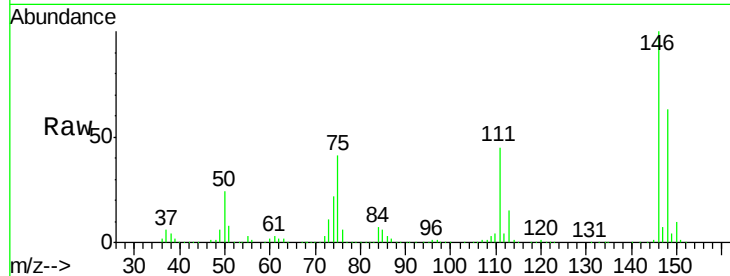
146 100

111 46.5 23.5 70.5

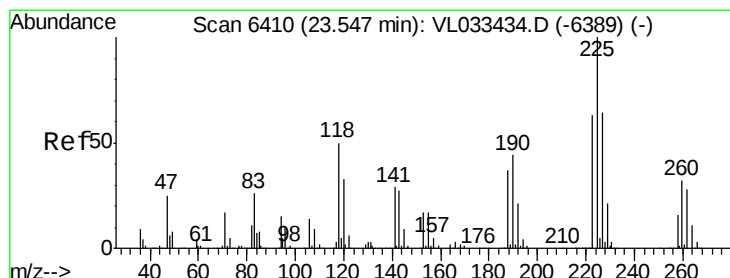
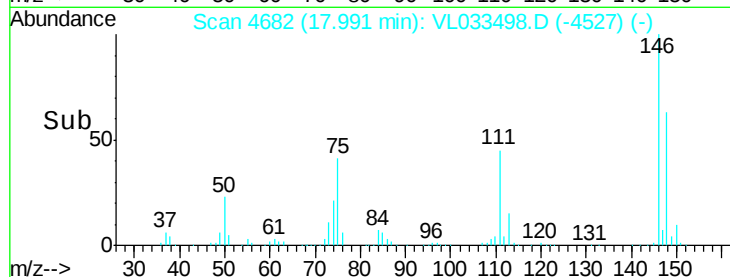
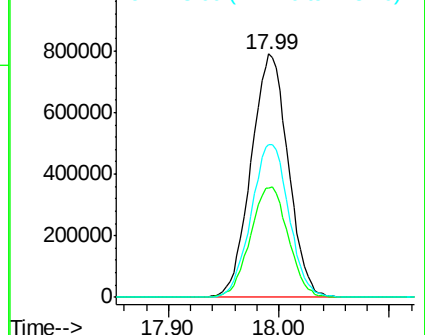
148 64.2 32.0 96.0

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



#78

Hexachloro-1,3-Butadiene

Concen: 11.691 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

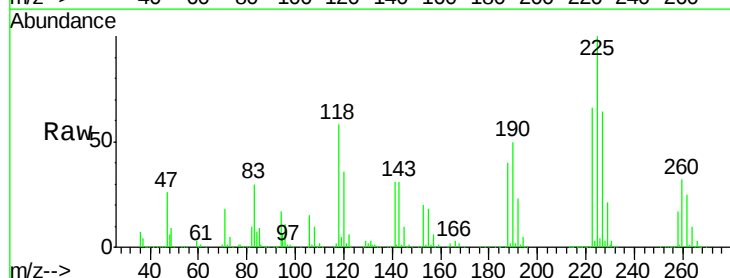
Tgt Ion:225 Resp: 1386311

Ion Ratio Lower Upper

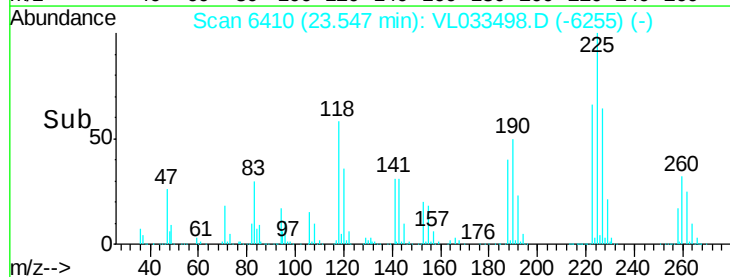
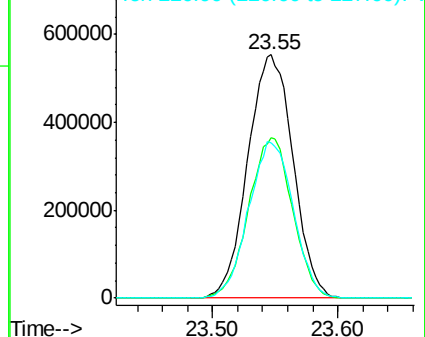
225 100

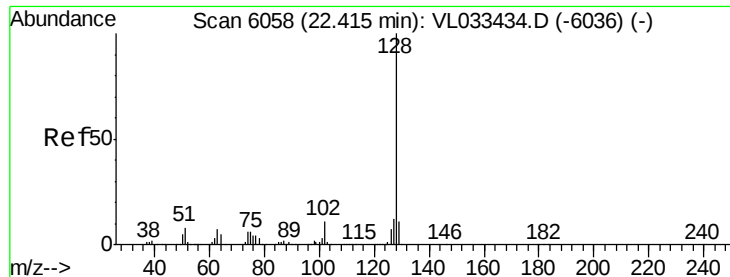
223 63.9 50.0 75.0

227 63.7 51.1 76.7



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: 12.100 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

Instrument :

MSVOA_L

ClientSampleId :

VL0329ABS01

Tot Ion:128 Resp: 3163947

Ion Ratio Lower Upper

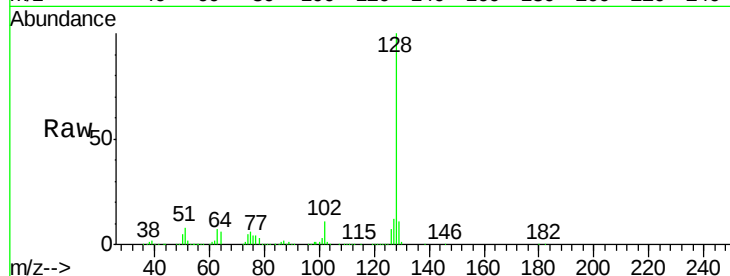
128 100

127 12.1 9.8 14.8

129 10.7 8.6 12.8

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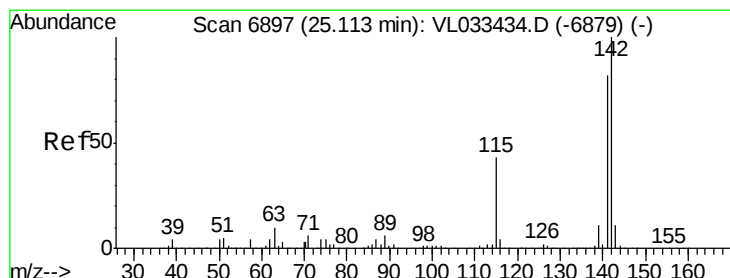
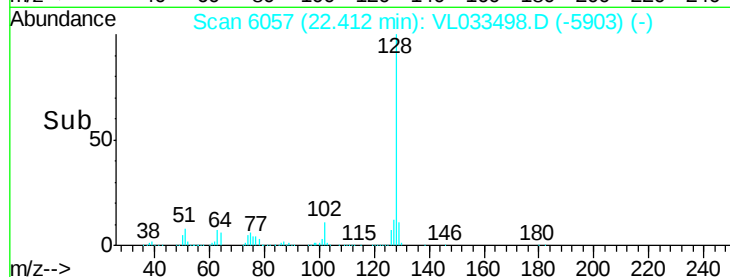
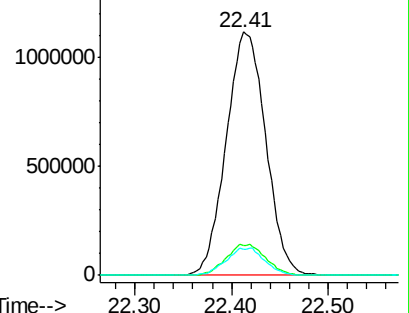
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 16.062 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.00 min

Lab File: VL033498.D

Acq: 29 Mar 2019 12:08

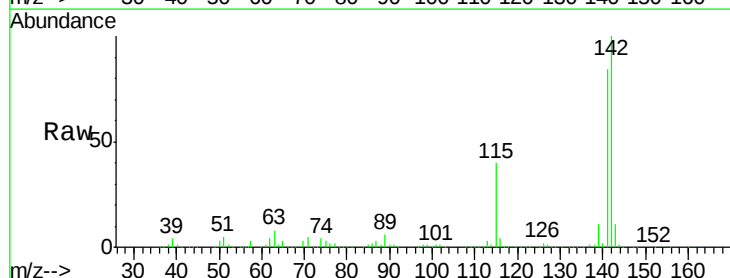
Tgt Ion:142 Resp: 1409593

Ion Ratio Lower Upper

142 100

141 84.7 66.6 99.8

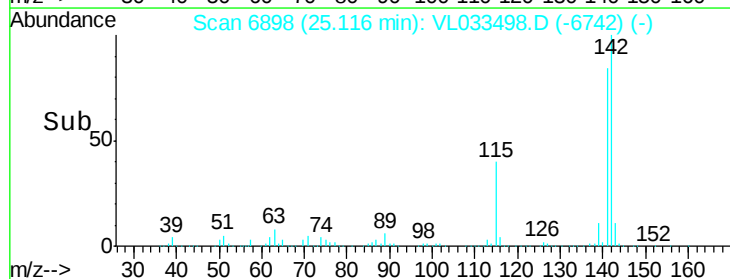
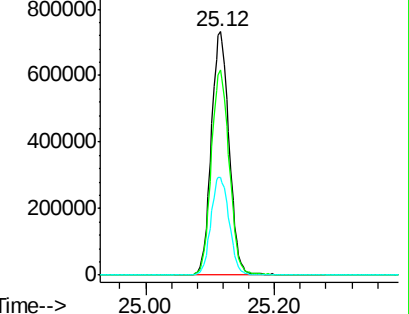
115 41.0 34.4 51.6



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





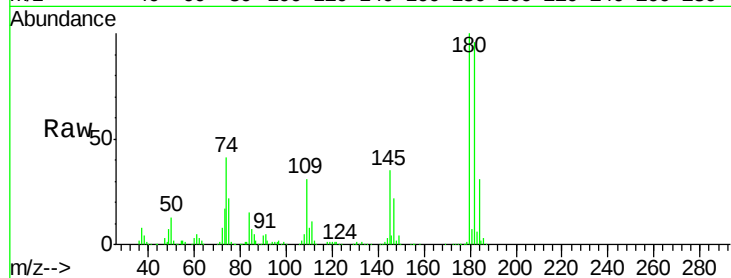
#81
 1,2,4-Trichlorobenzene
 Concen: 11.200 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033498.D
 Acq: 29 Mar 2019 12:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0329ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.0	115.4
184	30.5	24.6	36.8

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Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

