

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033392.D
 Acq On : 20 Mar 2019 16:33
 Operator : SY/AP
 Sample : VL0320ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:26:24 AM

Quant Time: Mar 20 20:01:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	835119	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1921671	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2125264m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1484974	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1516564	10.327	ppbv 99
3) Chlorodifluoromethane	3.01	51	1040310	10.853	ppbv 99
4) Chloromethane	3.17	50	550513	10.606	ppbv 98
5) Vinyl Chloride	3.29	62	546110	10.199	ppbv 99
6) Bromomethane	3.51	94	349310	10.975	ppbv 98
7) Chloroethane	3.60	64	201742	10.782	ppbv 92
8) Dichlorotetrafluoroethane	3.22	85	1381018	11.046	ppbv 99
9) Propene	3.03	41	447903	10.468	ppbv 100
10) Heptane	8.25	43	1228136	11.572	ppbv 99
11) Trichlorofluoromethane	4.00	101	1651254	11.292	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1043301	10.753	ppbv 98
13) Ethanol	3.65	45	98671	4.837	ppbv 96
14) Bromoethene	3.79	108	453474	11.213	ppbv 99
15) Acetone	3.90	43	1002390	7.722	ppbv 100
16) 1,3-Butadiene	3.36	39	461155	10.937	ppbv 96
17) tert-Butyl alcohol	4.35	59	198555	10.868	ppbv 100
18) 1,1-Dichloroethene	4.35	96	476483	10.740	ppbv 97
19) Isopropyl Alcohol	4.02	45	689273	11.162	ppbv 99
20) Methylene Chloride	4.41	84	403128	9.522	ppbv 99
21) Allyl Chloride	4.47	41	709294	11.263	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	477362	11.103	ppbv 97
23) Vinyl Acetate	5.15	43	1632209	10.866	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1158265	10.677	ppbv 99
25) Ethyl Acetate	5.76	43	2019701	10.703	ppbv 100
26) Hexane	5.78	57	893939	10.596	ppbv 99
27) Carbon Disulfide	4.62	76	1157005	11.913	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1358536	10.842	ppbv 99
29) Chloroform	5.85	83	1530499	11.079	ppbv 98
30) Cyclohexane	7.25	84	759380	11.227	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	941900	11.166	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1504851	11.095	ppbv 100
34) 2-Butanone	5.33	43	1314601	10.417	ppbv 99
35) Carbon Tetrachloride	7.13	117	1593838	11.765	ppbv 98
36) Benzene	7.00	78	1858671	10.807	ppbv 100
37) 1,2-Dichloroethane	6.41	62	1172214	10.780	ppbv 100
38) Trichloroethene	7.96	130	744873	11.446	ppbv 99
39) 1,2-Dichloropropane	7.74	63	722002	11.210	ppbv 98
40) 1,4-Dioxane	7.95	88	255986	11.287	ppbv 95
41) Tetrahydrofuran	6.14	42	749539	11.129	ppbv 99
42) Bromodichloromethane	7.91	83	1704991	11.694	ppbv 100
43) Methyl Methacrylate	8.13	69	786020	11.738	ppbv 99

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Manual Integrations
 APPROVED

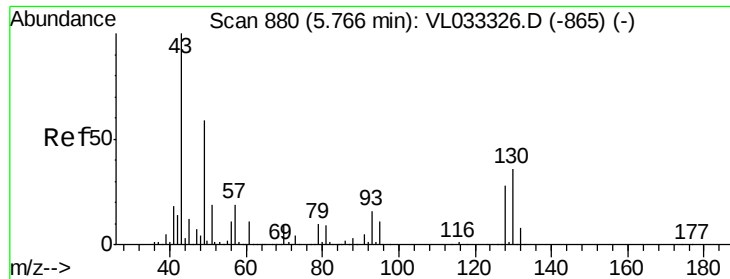
MMDadoda
 3/25/2019 8:26:24 AM

Quant Time: Mar 20 20:01:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	3226095	11.326	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1055859	12.771	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1194617	12.272	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	796302	11.190	ppbv	92
48) Dibromochloromethane	10.45	129	1463651	12.264	ppbv	99
49) Bromoform	13.20	173	1332649	11.772	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2018355	11.322	ppbv	99
51) 2-Hexanone	10.27	43	1553608	11.296	ppbv #	100
52) Tetrachloroethene	11.37	164	744582	10.392	ppbv	99
53) Toluene	9.95	91	2284381	11.690	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1320032	10.973	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1040991	10.950	ppbv	96
57) Chlorobenzene	12.30	112	1731924	10.289	ppbv	99
58) Ethyl Benzene	12.86	91	3289958	10.943	ppbv	97
59) m/p-Xylene	13.12	91	5519284m	21.362	ppbv	
60) o-Xylene	13.85	91	2672308	10.602	ppbv	100
61) Styrene	13.69	104	1959674	11.104	ppbv	99
62) Isopropylbenzene	14.83	105	3731365	10.648	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1854753	10.179	ppbv	100
64) n-propylbenzene	15.72	120	952848	10.746	ppbv	99
65) tert-Butylbenzene	16.91	119	3442418	10.911	ppbv	99
66) Benzyl Chloride	17.16	91	1684934	12.924	ppbv	99
67) sec-Butylbenzene	17.46	105	4770109	10.670	ppbv	99
69) p-Isopropyltoluene	17.82	119	3924796	10.746	ppbv	100
70) n-Butylbenzene	18.72	91	4125537	10.593	ppbv	100
71) 2-Chlorotoluene	15.62	91	2897365	10.622	ppbv	100
72) 4-Ethyltoluene	16.00	105	3089645	10.794	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2961101	10.619	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3129057	10.595	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1753385	10.073	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1766609	10.482	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1710325	10.375	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	916643	9.274	ppbv	99
79) Naphthalene	22.42	128	2835193	9.962	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1120921	8.306	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1487622	10.251	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

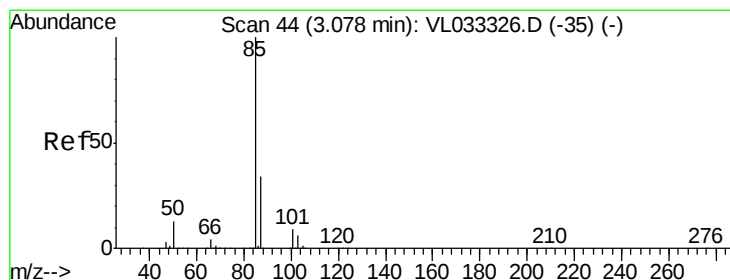
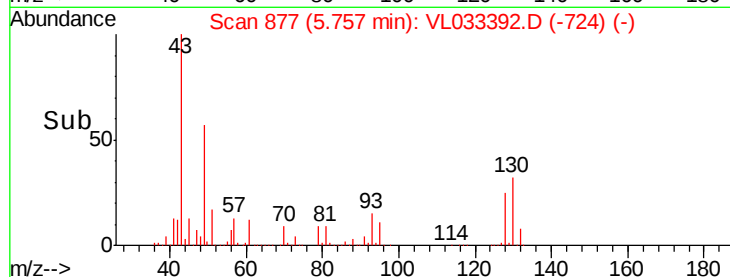
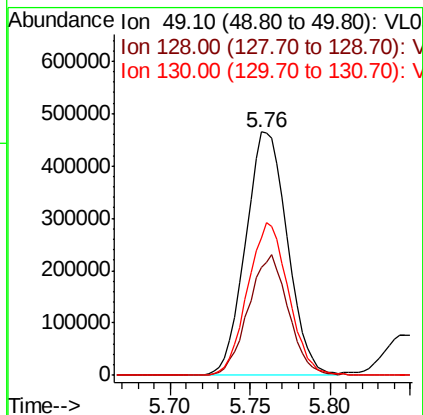
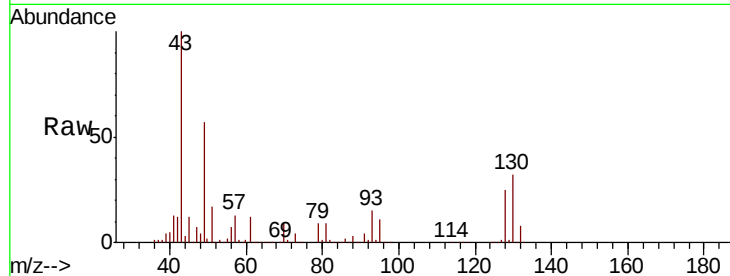
ClientSampleId :

VL0320ABS01

Tot Ion:	49	Resp:	835119
Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.5	70.6
130	61.3	30.1	90.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 10.327 ppbv

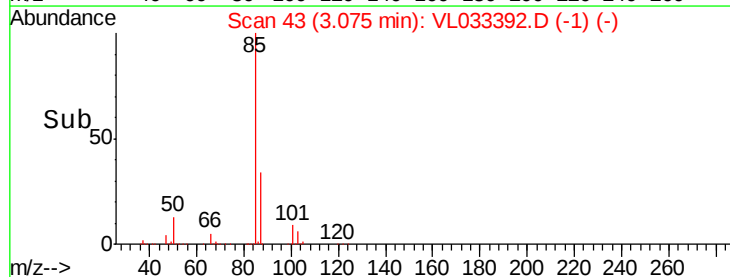
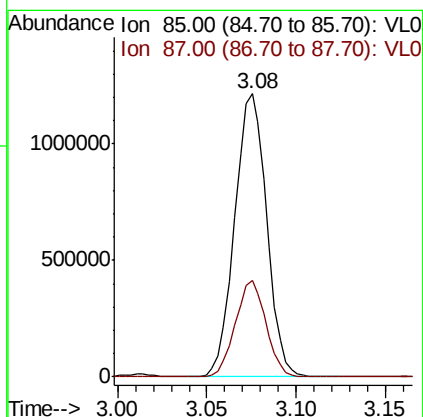
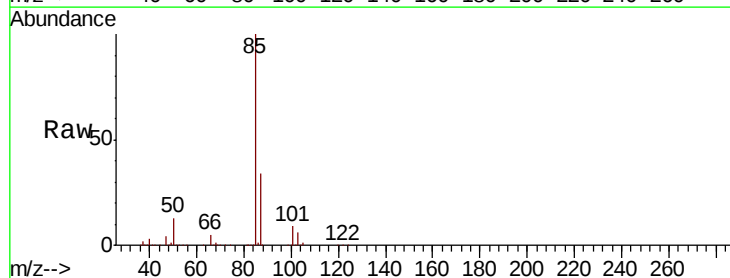
RT: 3.08 min Scan# 43

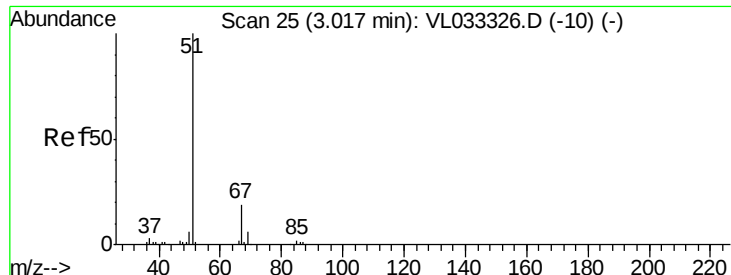
Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Tgt Ion:	85	Resp:	1516564
Ion	Ratio	Lower	Upper
85	100		
87	34.2	26.9	40.3





#3

Chlorodifluoromethane

Concen: 10.853 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 51 Resp: 1040310

Ion Ratio Lower Upper

51 100

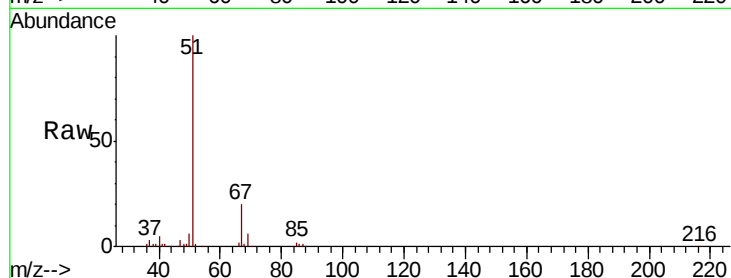
67 19.1 14.9 22.3

Manual Integrations

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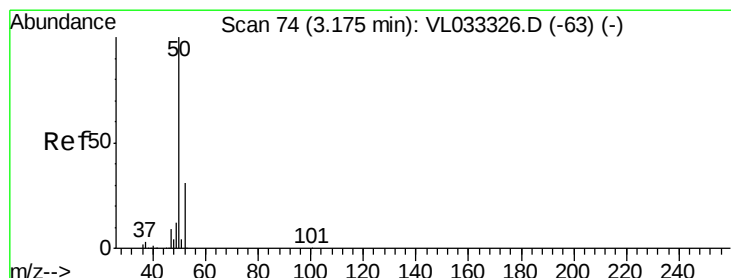
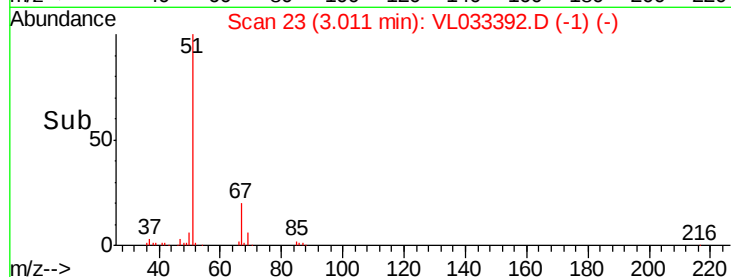
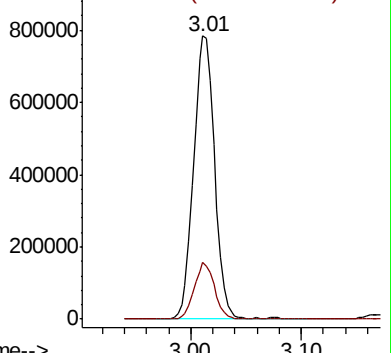
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.606 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033392.D

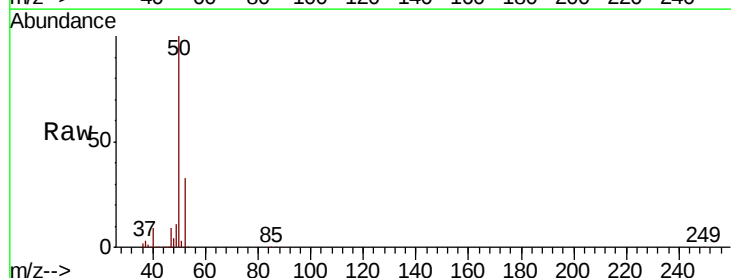
Acq: 20 Mar 2019 16:33

Tgt Ion: 50 Resp: 550513

Ion Ratio Lower Upper

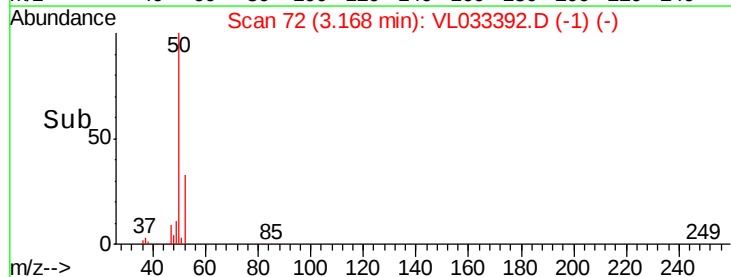
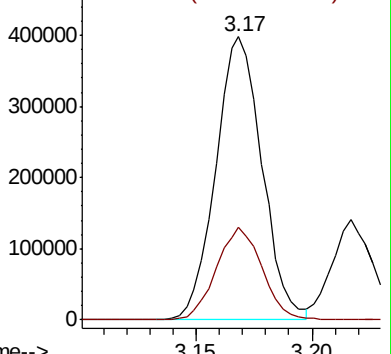
50 100

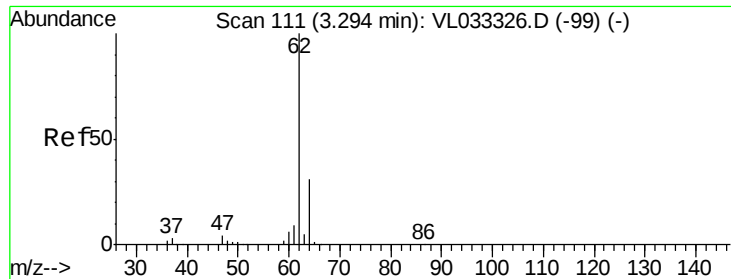
52 32.7 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.199 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 62 Resp: 546110

Ion Ratio Lower Upper

62 100

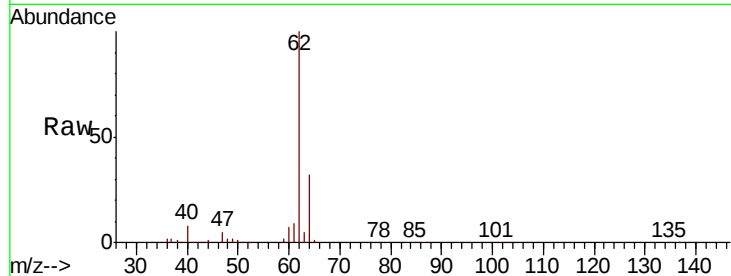
64 31.6 25.0 37.6

Manual Integrations

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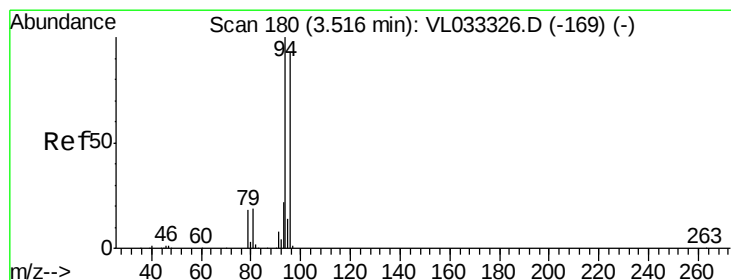
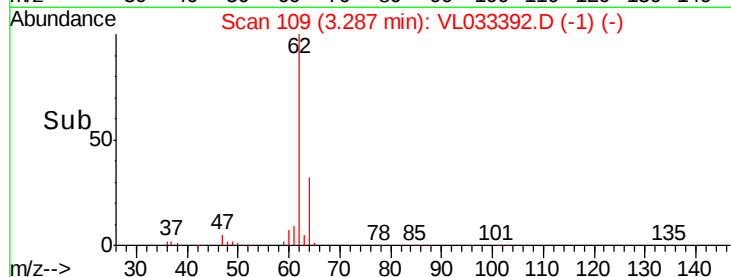
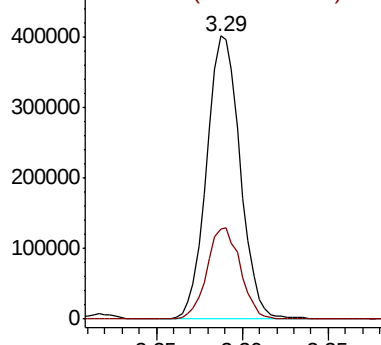
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.975 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.01 min

Lab File: VL033392.D

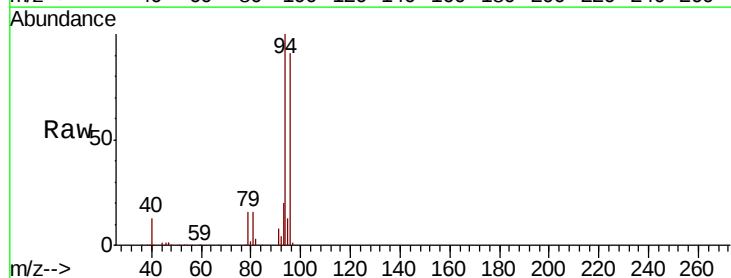
Acq: 20 Mar 2019 16:33

Tgt Ion: 94 Resp: 349310

Ion Ratio Lower Upper

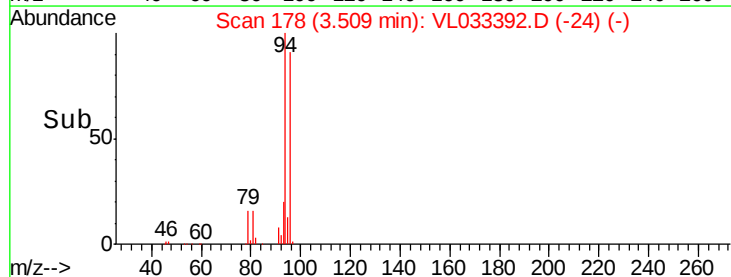
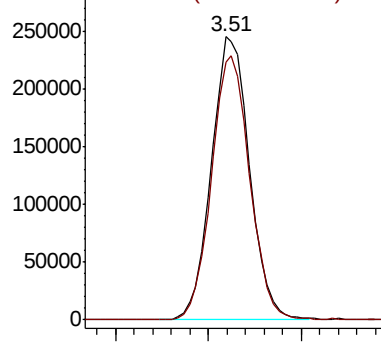
94 100

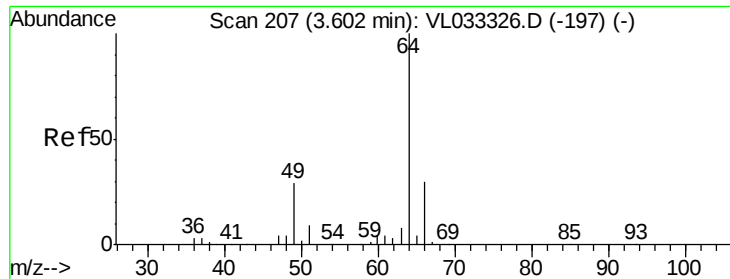
96 91.2 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.782 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 64 Resp: 201742

Ion Ratio Lower Upper

64 100

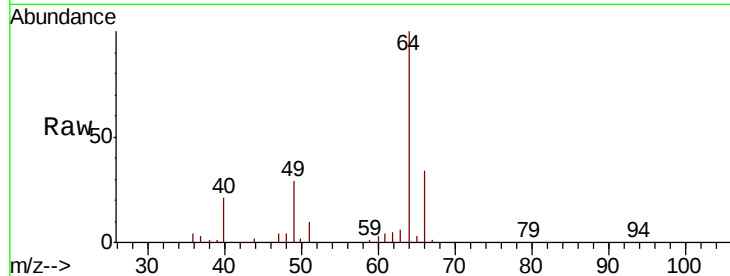
66 34.1 24.0 36.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

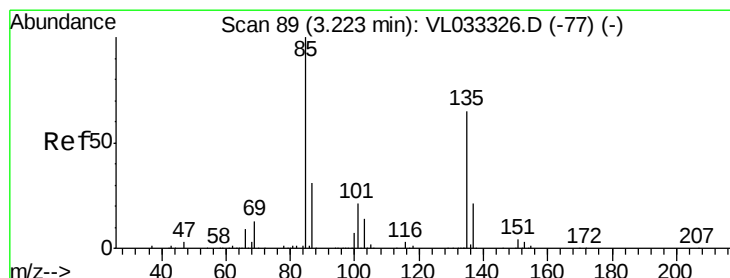
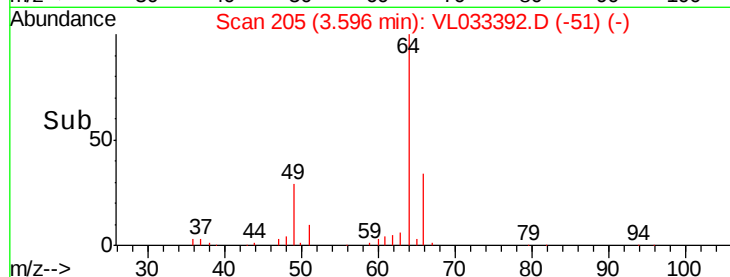
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 11.046 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033392.D

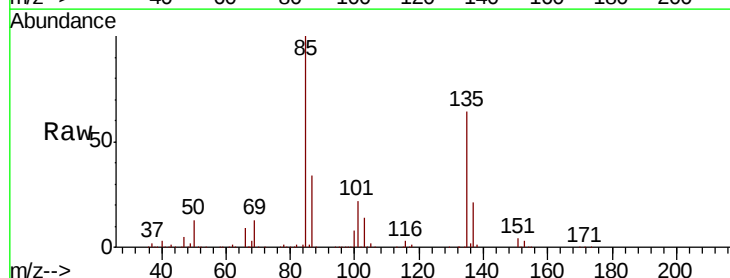
Acq: 20 Mar 2019 16:33

Tgt Ion: 85 Resp: 1381018

Ion Ratio Lower Upper

85 100

135 67.6 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1200000

1000000

800000

600000

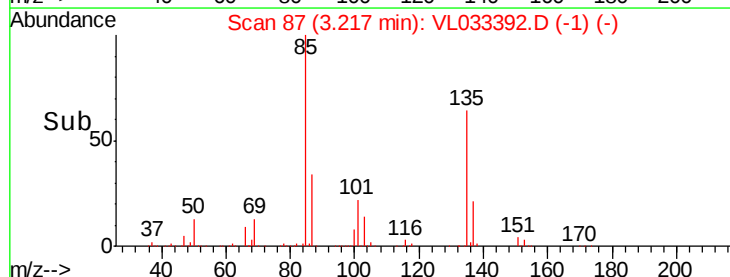
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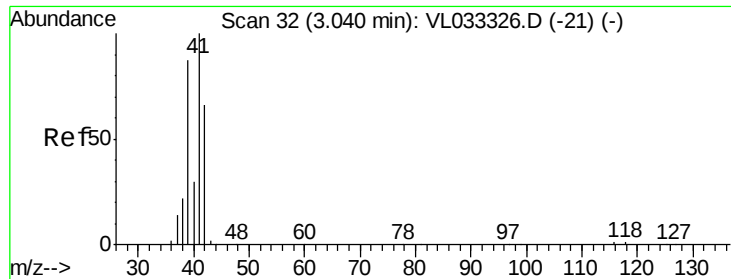
200000

0

3.15 3.20 3.25

Time-->





#9

Propene

Concen: 10.468 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 41 Resp: 447903

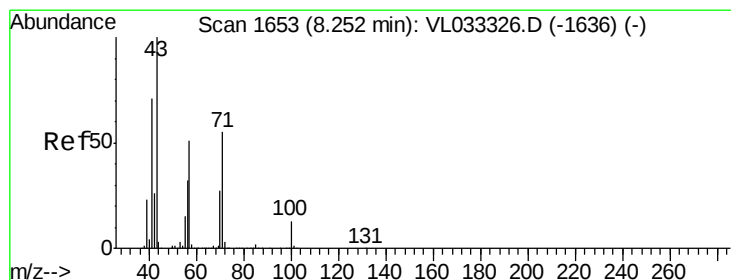
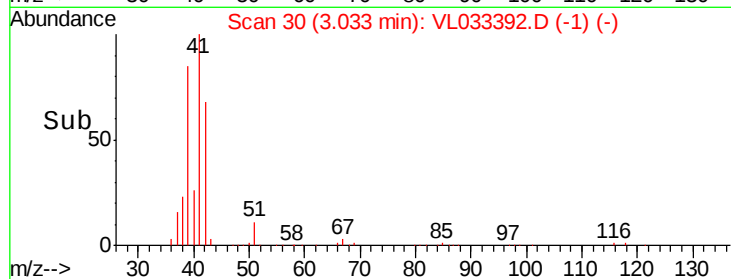
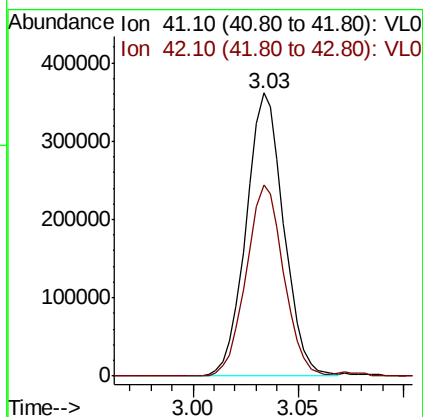
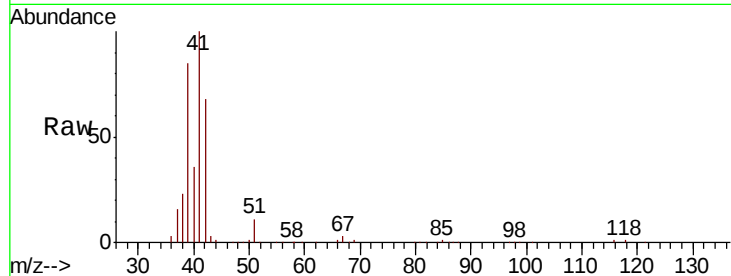
Ion Ratio Lower Upper

41 100

42 68.6 55.2 82.8

Manual Integrations
APPROVED

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3/25/2019 8:26:24 AM



#10

Heptane

Concen: 11.572 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033392.D

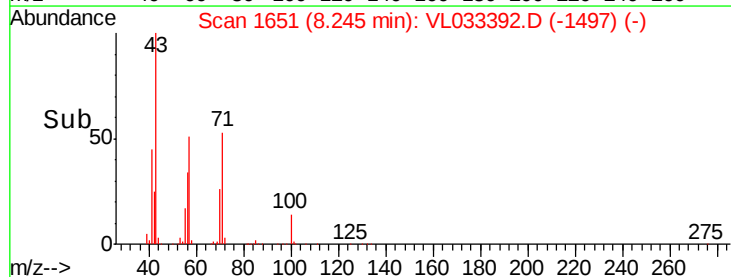
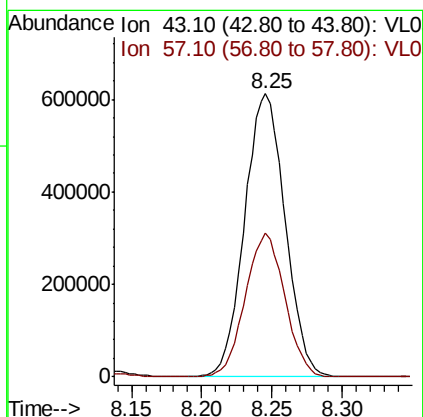
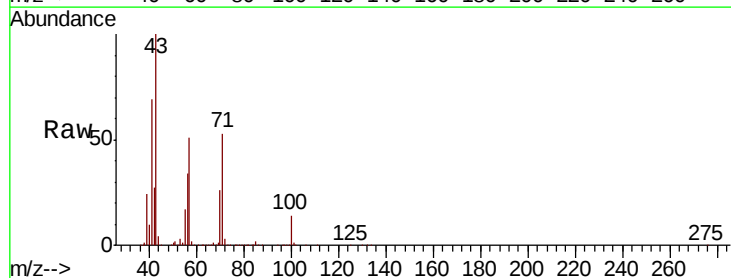
Acq: 20 Mar 2019 16:33

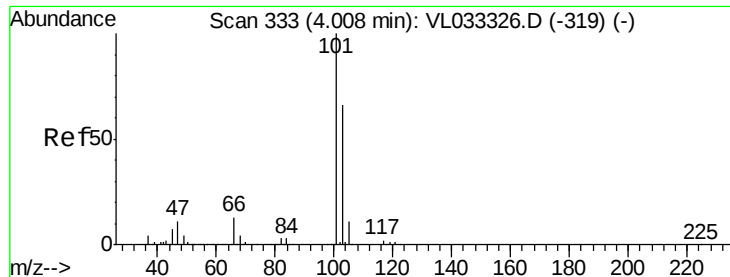
Tgt Ion: 43 Resp: 1228136

Ion Ratio Lower Upper

43 100

57 49.8 40.4 60.6





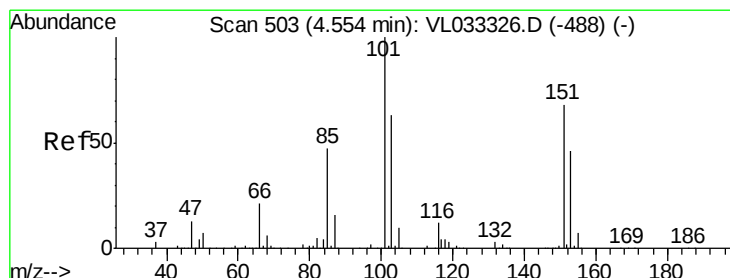
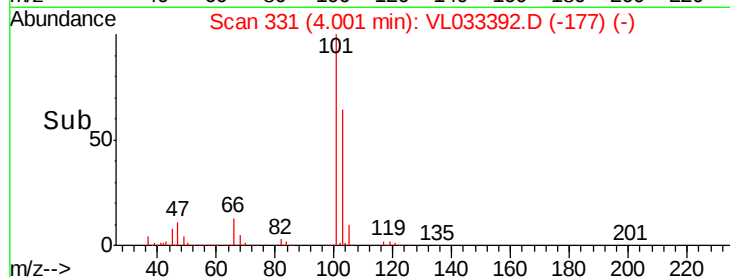
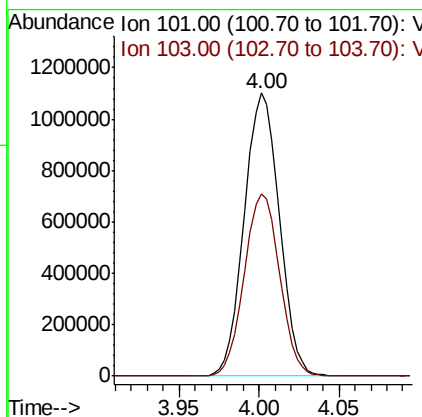
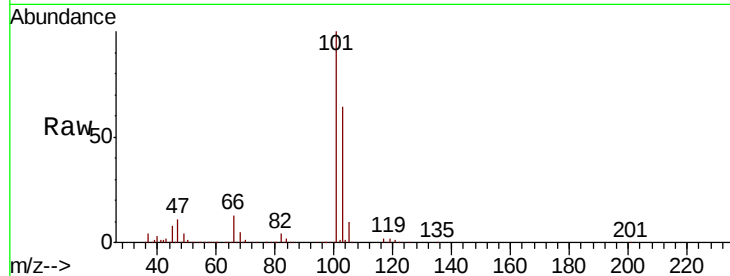
#11
 Trichlorofluoromethane
 Concen: 11.292 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion:101 Resp: 1651254
 Ion Ratio Lower Upper
 101 100
 103 64.4 52.9 79.3

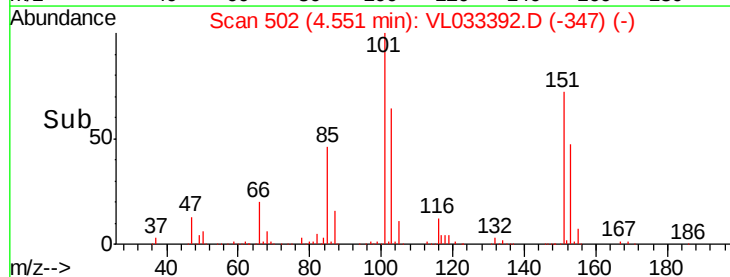
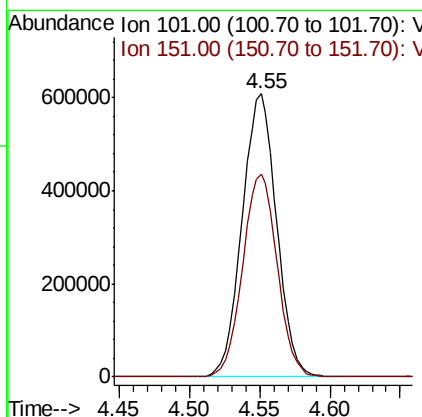
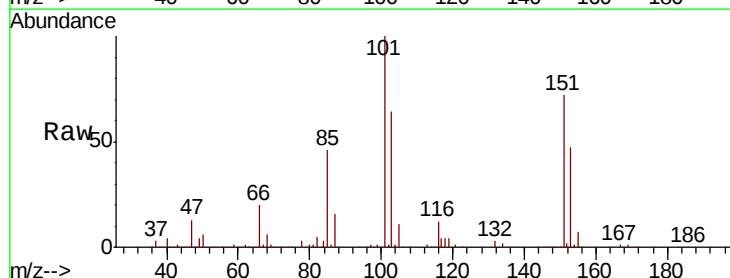
Manual Integrations
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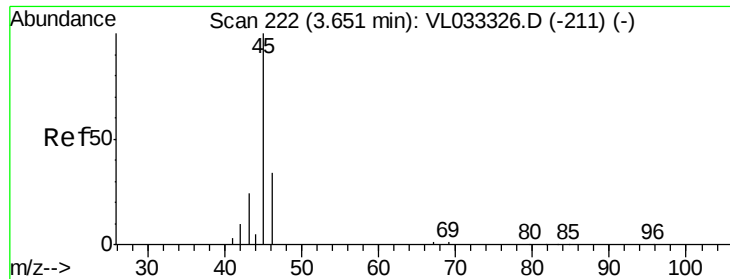
MMDadoda
 3/25/2019 8:26:24 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.753 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion:101 Resp: 1043301
 Ion Ratio Lower Upper
 101 100
 151 71.7 56.3 84.5





#13

Ethanol

Concen: 4.837 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 45 Resp: 98671

Ion Ratio Lower Upper

45 100

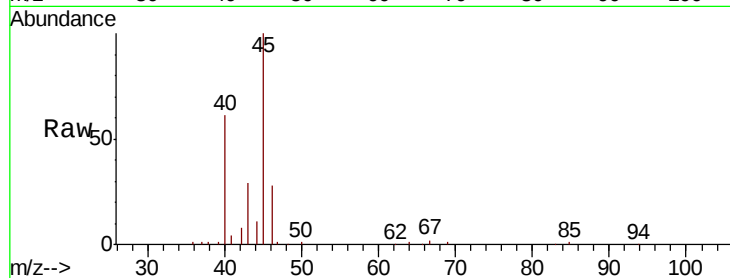
46 34.9 14.9 59.7

Manual Integrations

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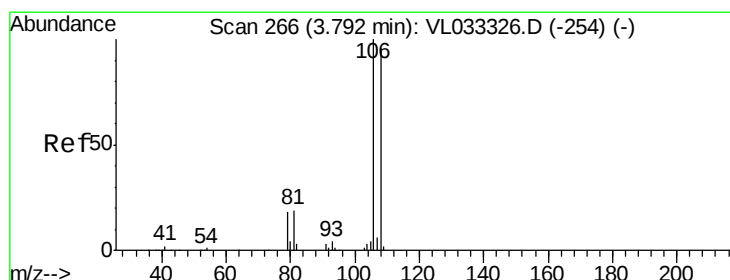
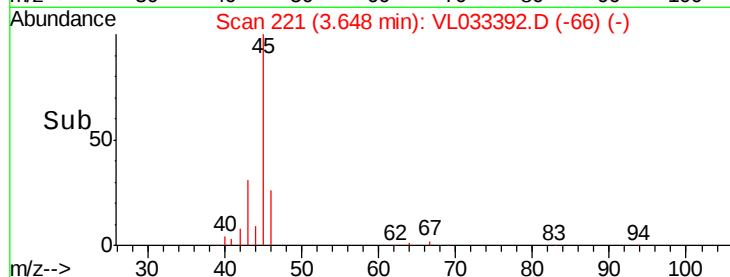
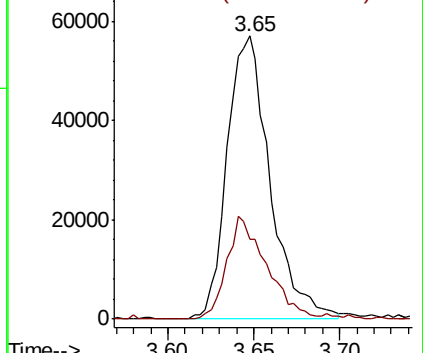
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 11.213 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

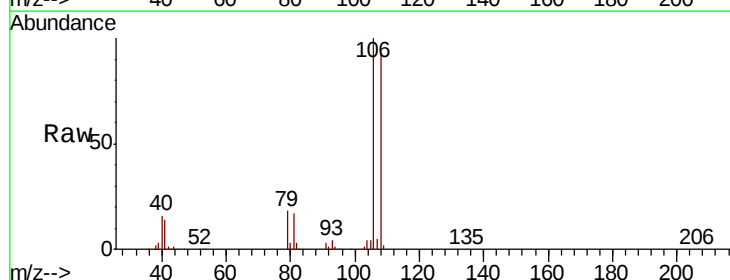
Tgt Ion: 108 Resp: 453474

Ion Ratio Lower Upper

108 100

106 107.3 86.2 129.2

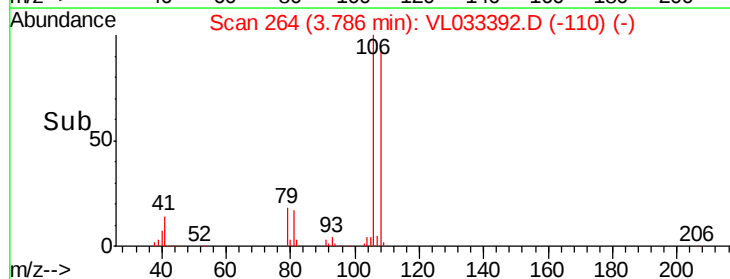
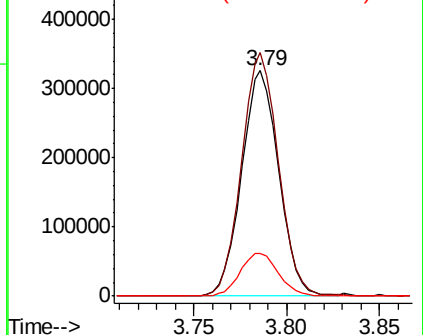
79 19.8 15.4 23.2

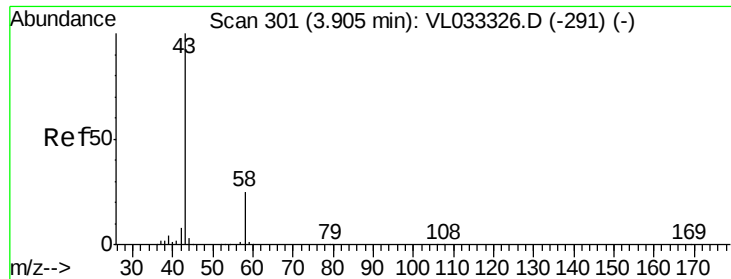


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 7.722 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 43 Resp: 1002390

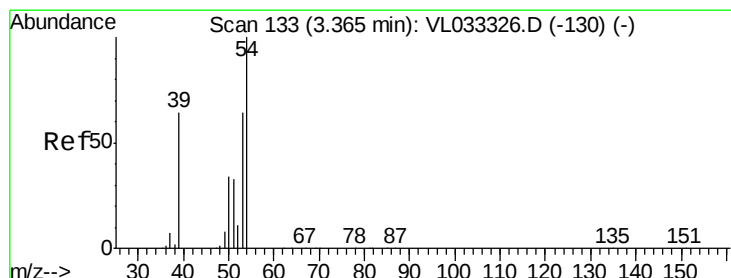
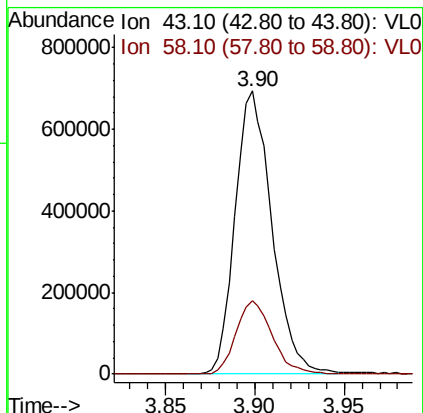
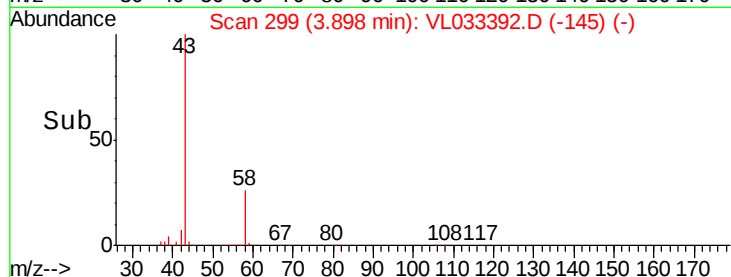
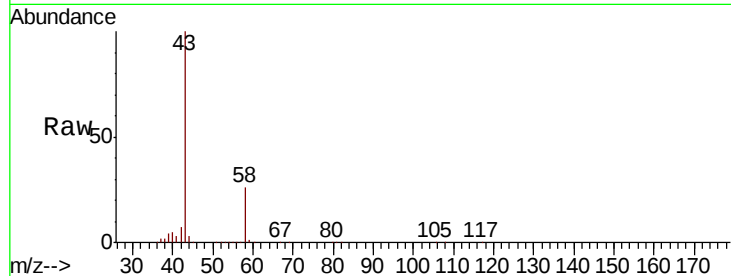
Ion Ratio Lower Upper

43 100

58 25.7 20.4 30.6

Manual Integrations
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#16

1,3-Butadiene

Concen: 10.937 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033392.D

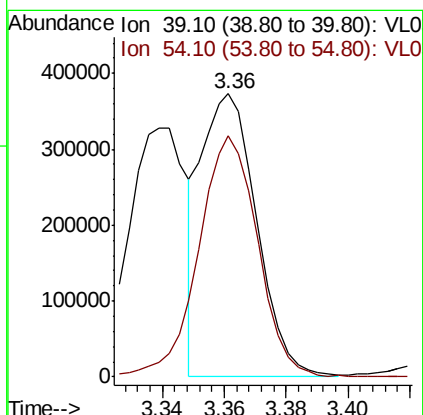
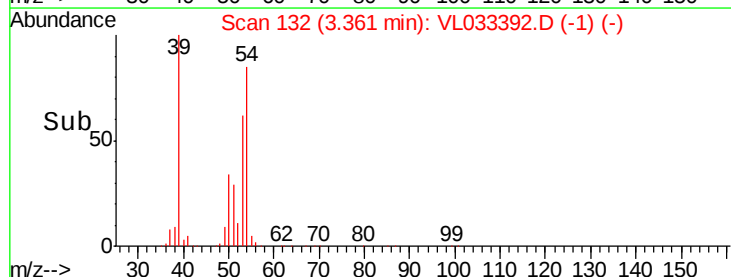
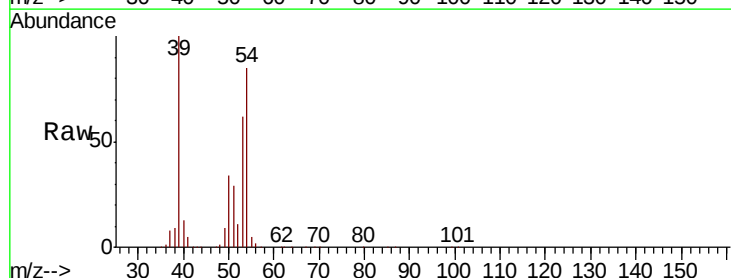
Acq: 20 Mar 2019 16:33

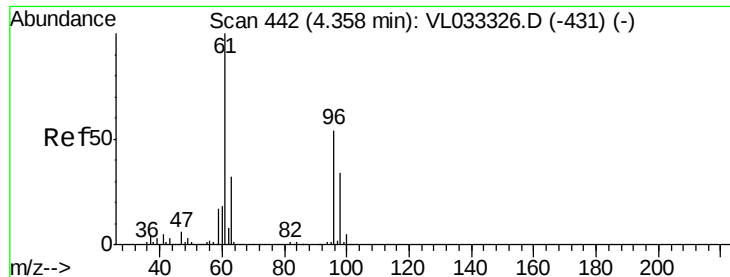
Tgt Ion: 39 Resp: 461155

Ion Ratio Lower Upper

39 100

54 92.3 76.8 115.2





#17

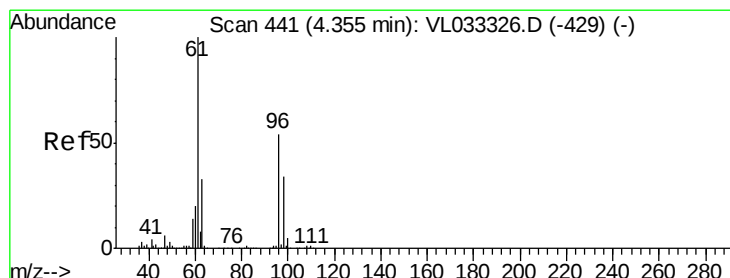
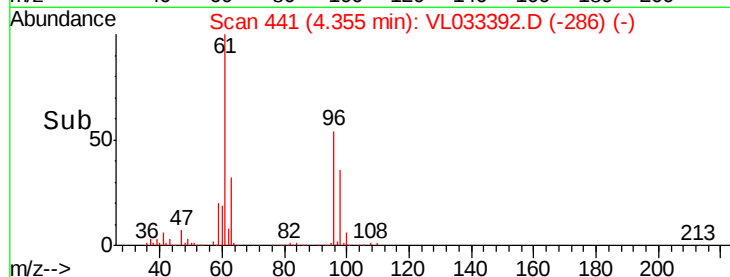
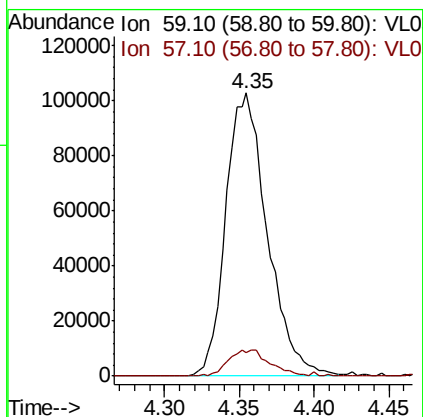
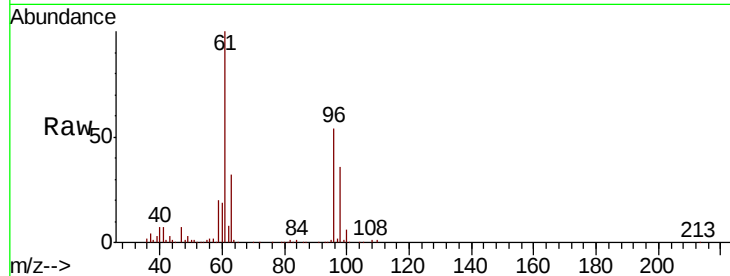
tert-Butyl alcohol
Concen: 10.868 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0320ABS01

Tot Ion	59	Resp	198555
Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.7	11.5

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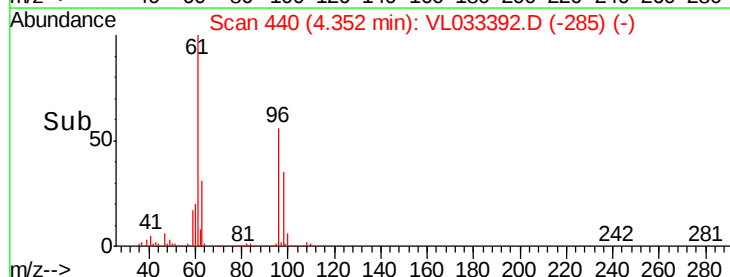
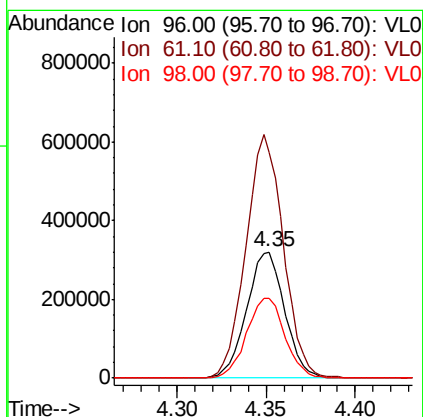
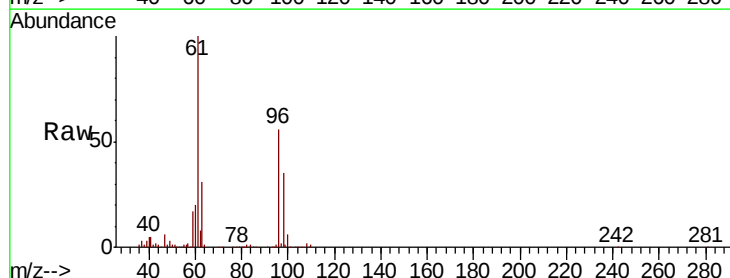
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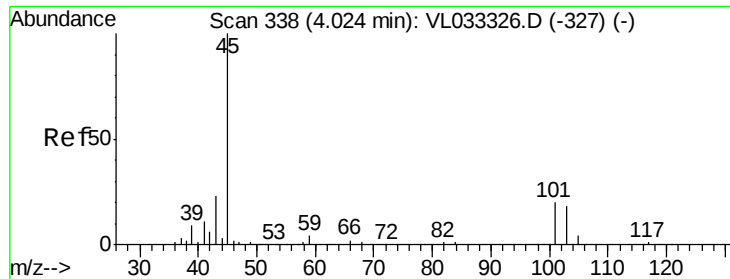


#18

1,1-Dichloroethene
Concen: 10.740 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tgt Ion	96	Resp	476483
Ion	Ratio	Lower	Upper
96	100		
61	179.4	148.6	222.8
98	63.0	50.3	75.5





#19

Isopropyl Alcohol

Concen: 11.162 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 45 Resp: 689273

Ion Ratio Lower Upper

45 100

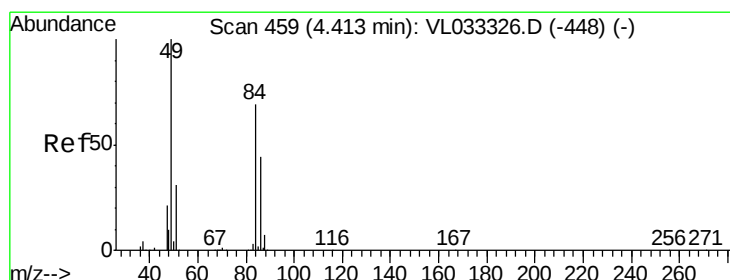
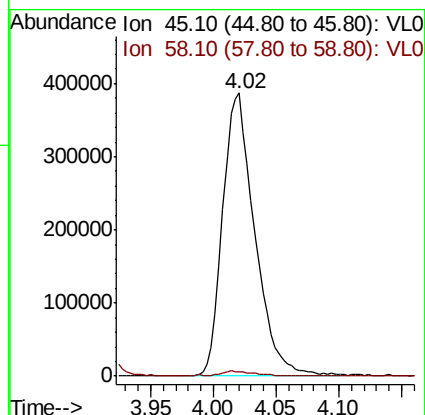
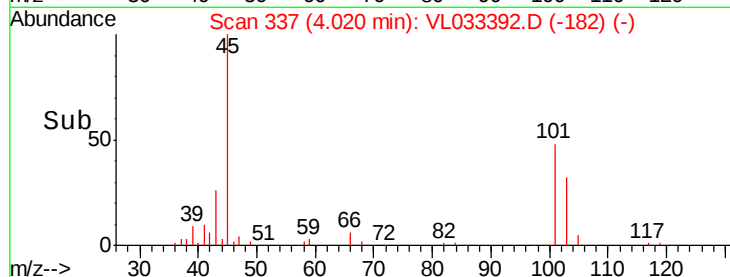
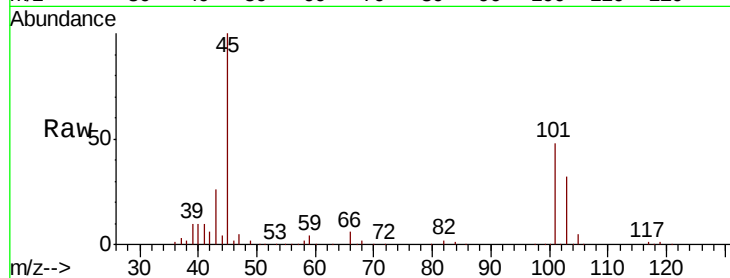
58 2.2 1.5 2.3

Manual Integrations

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#20

Methylene Chloride

Concen: 9.522 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Tgt Ion: 84 Resp: 403128

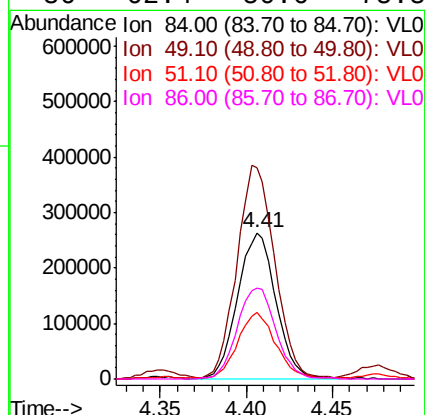
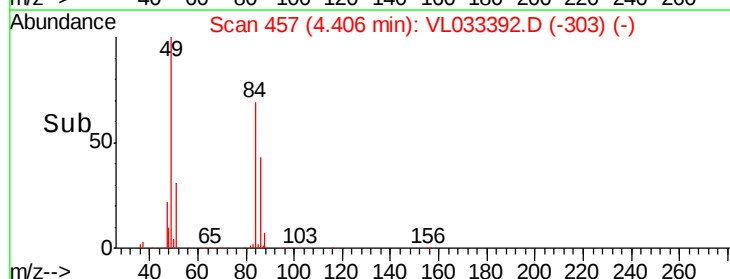
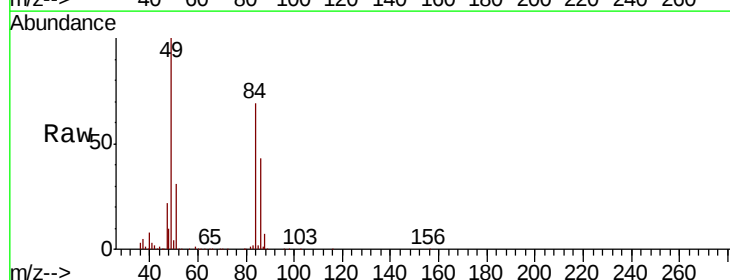
Ion Ratio Lower Upper

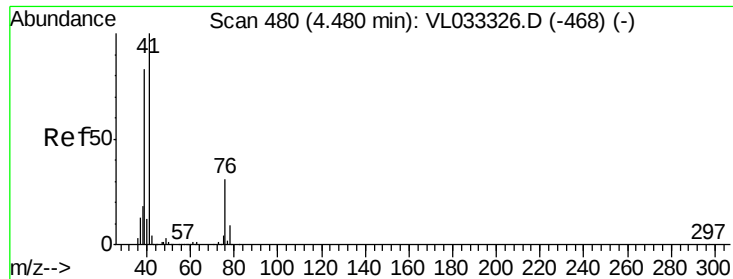
84 100

49 142.9 115.4 173.0

51 44.5 35.8 53.6

86 62.4 50.6 75.8





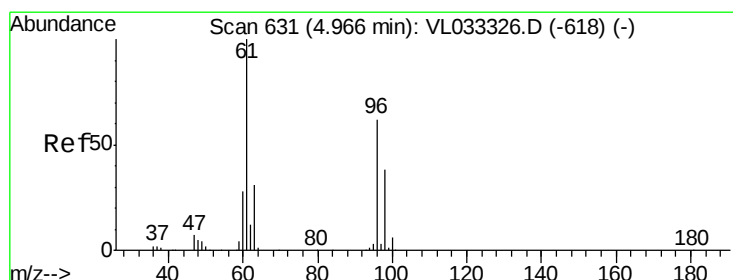
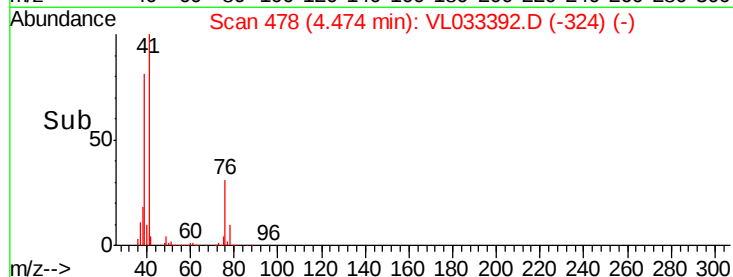
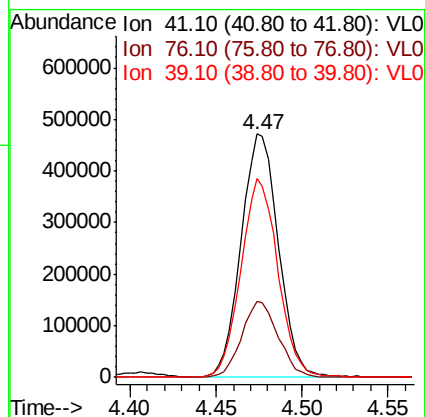
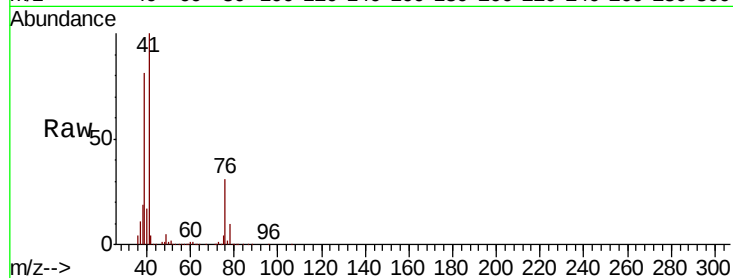
#21
Allvl Chloride
Concen: 11.263 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0320ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.7	25.0	37.4
39	81.2	65.9	98.9

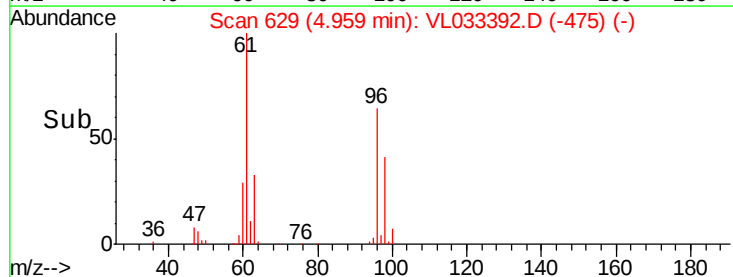
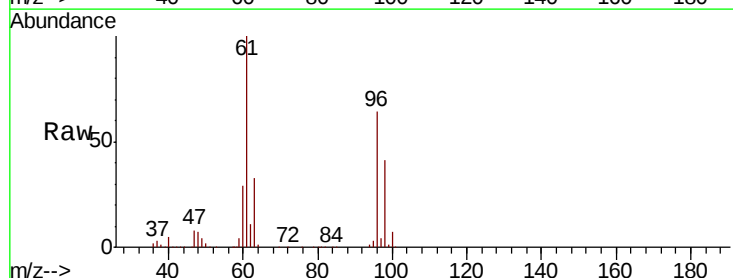
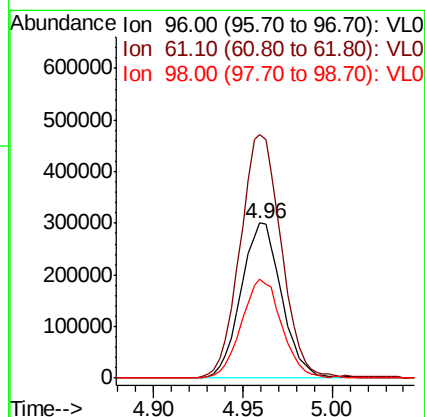
Manual Integrations
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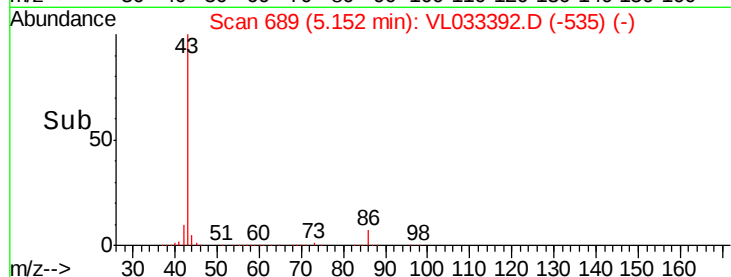
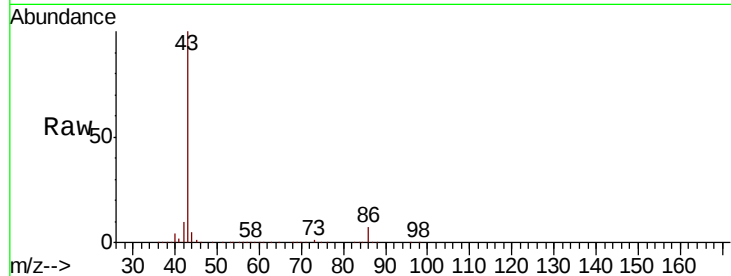
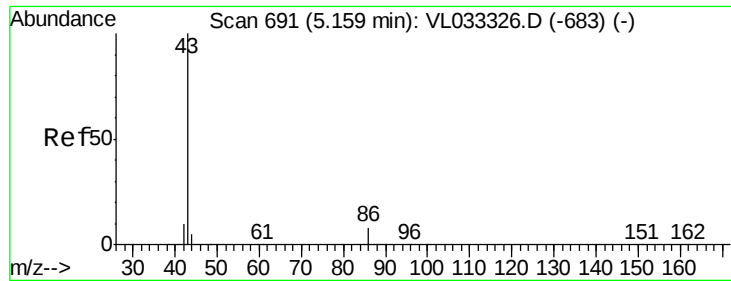
MMDadoda
3/25/2019 8:26:24 AM



#22
trans-1,2-Dichloroethene
Concen: 11.103 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.0	130.0	195.0
98	63.7	50.0	75.0





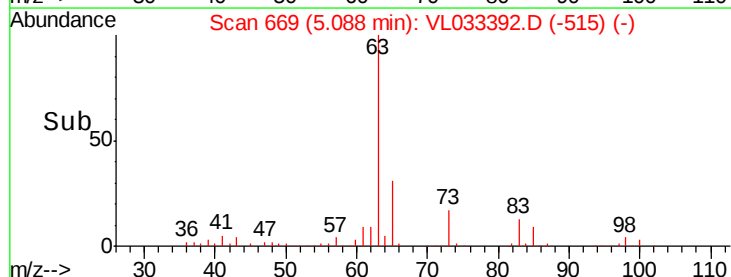
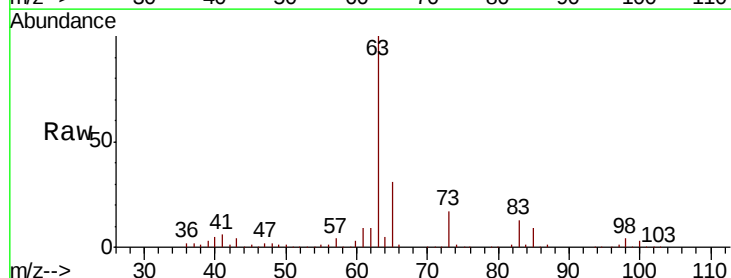
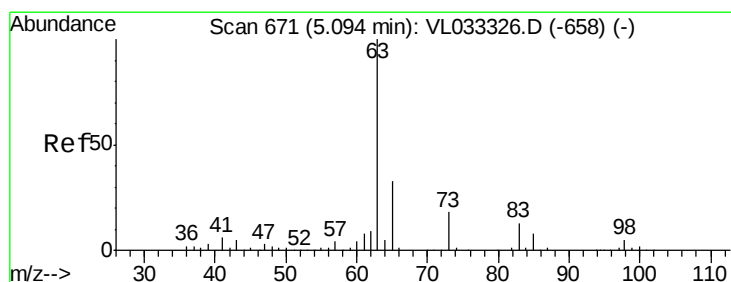
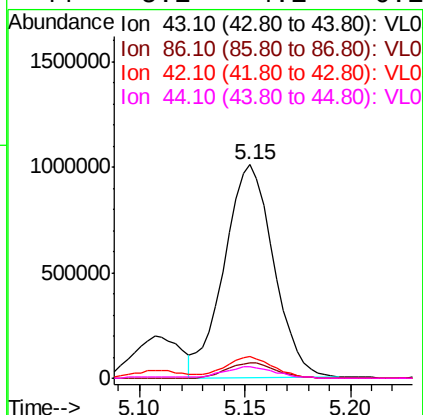
#23
 Vinyl Acetate
 Concen: 10.866 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.2	6.2	9.2	
42	9.9	8.1	12.1	
44	5.1	4.1	6.1	

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

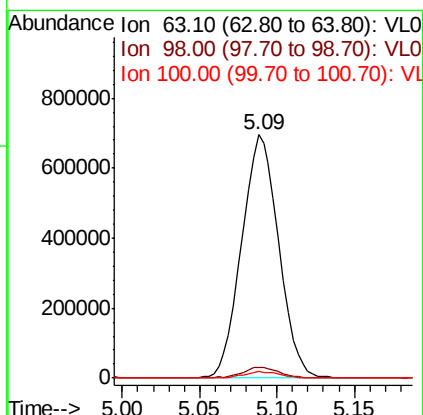
Manual Integrations
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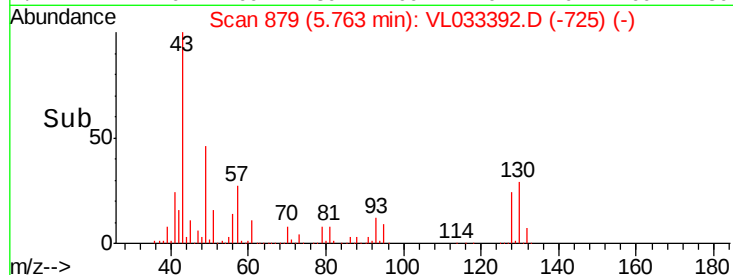
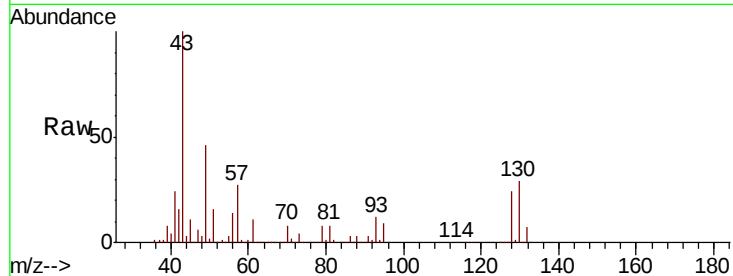
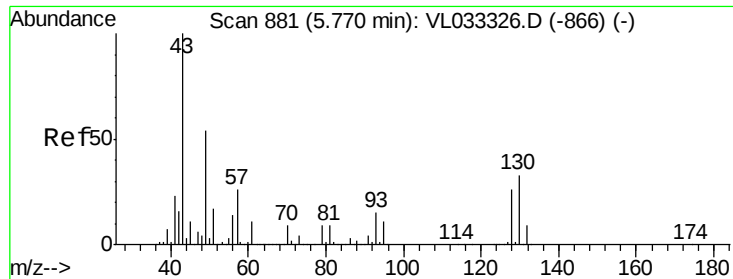
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 10.677 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.1	2.4	7.1	
100	2.6	1.3	3.8	





#25

Ethyl Acetate

Concen: 10.703 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Tot Ion: 43 Resp: 2019701

Ion Ratio Lower Upper

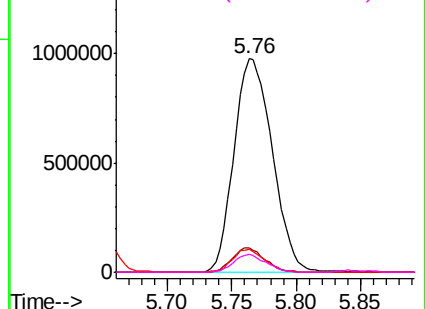
43 100

45 9.7 7.9 11.9

61 9.1 7.4 11.2

70 7.1 5.7 8.5

Abundance Ion 43.10 (42.80 to 43.80): VL0
1500000 Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



Instrument :

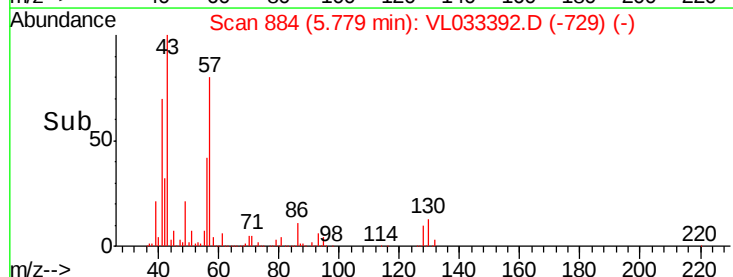
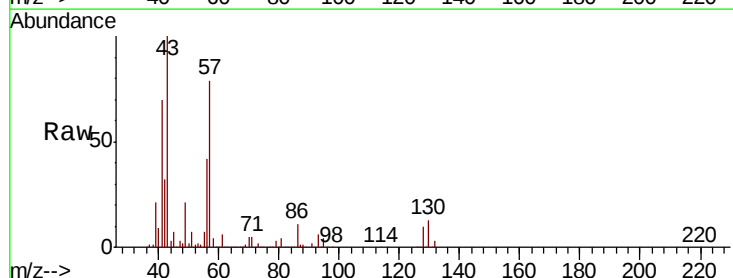
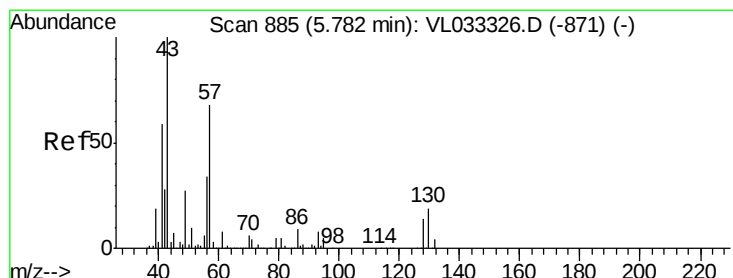
MSVOA_L

ClientSampleId :

VL0320ABS01

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#26

Hexane

Concen: 10.596 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Tgt Ion: 57 Resp: 893939

Ion Ratio Lower Upper

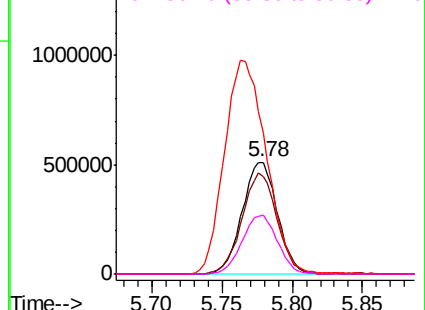
57 100

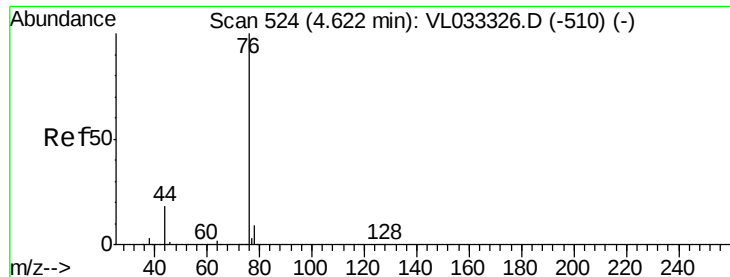
41 90.3 70.5 105.7

43 226.9 181.8 272.8

56 53.1 42.2 63.2

Abundance Ion 57.10 (56.80 to 57.80): VL0
1500000 Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.913 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 76 Resp: 1157005

Ion Ratio Lower Upper

76 100

44 18.2 15.2 22.8

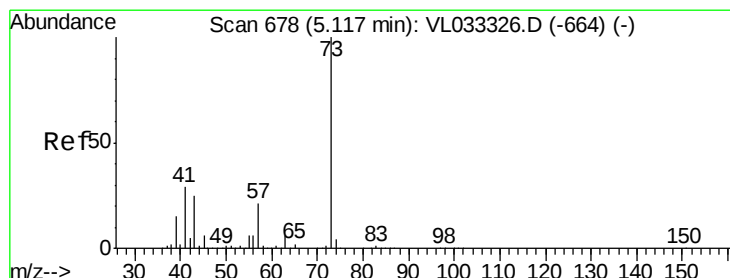
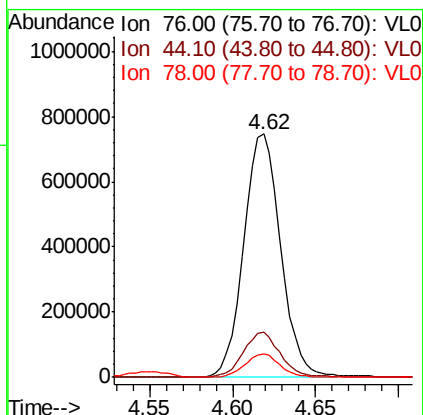
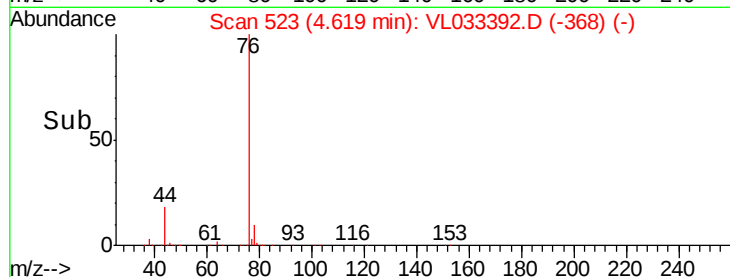
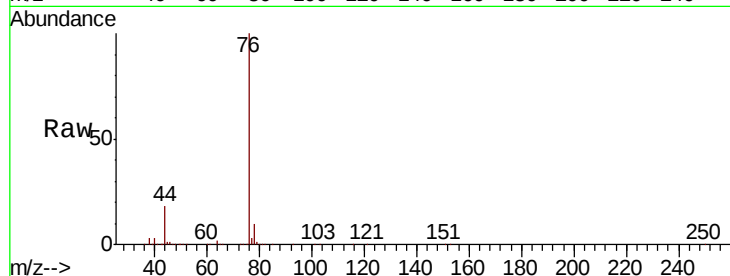
78 9.1 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 10.842 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.01 min

Lab File: VL033392.D

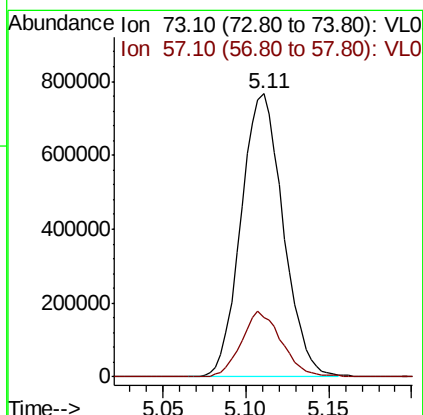
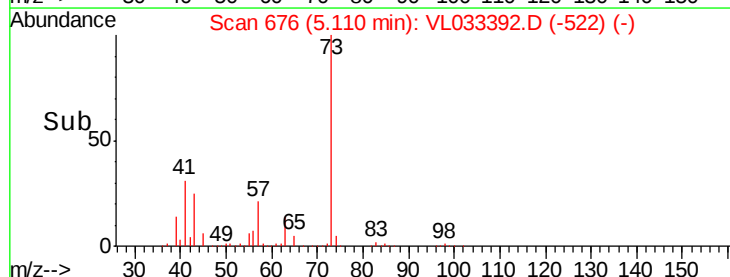
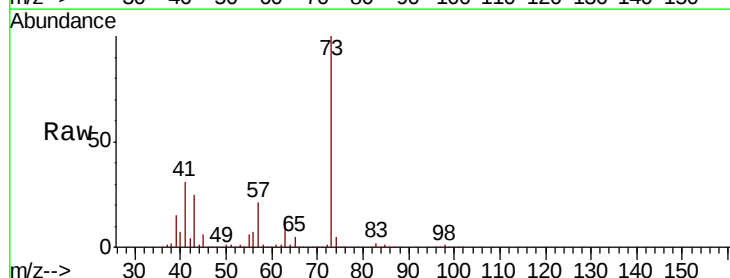
Acq: 20 Mar 2019 16:33

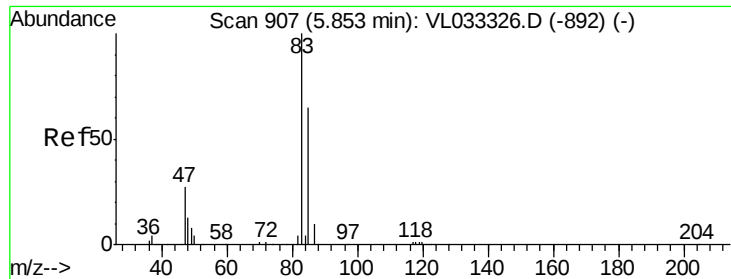
Tgt Ion: 73 Resp: 1358536

Ion Ratio Lower Upper

73 100

57 22.3 17.4 26.0





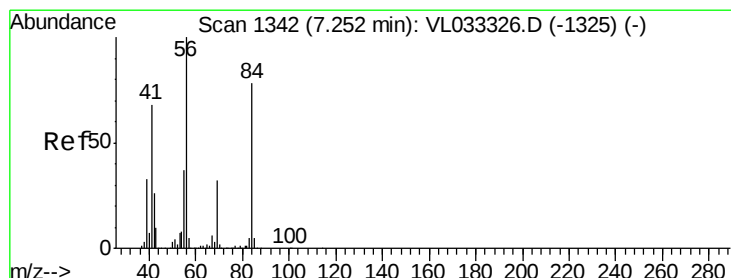
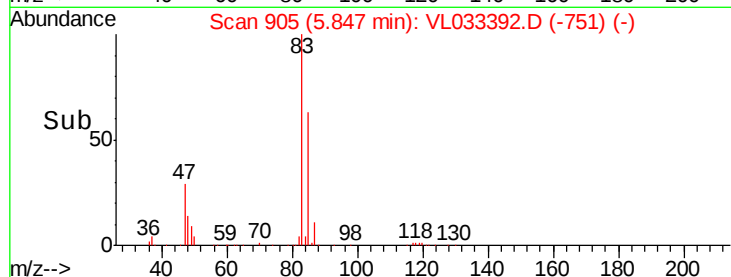
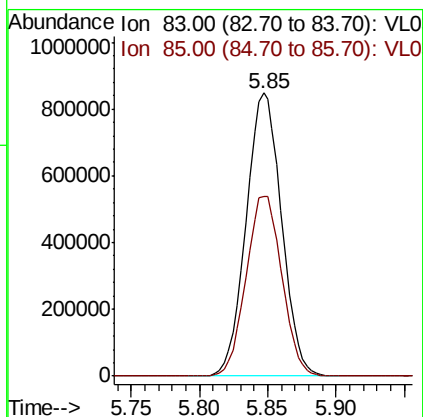
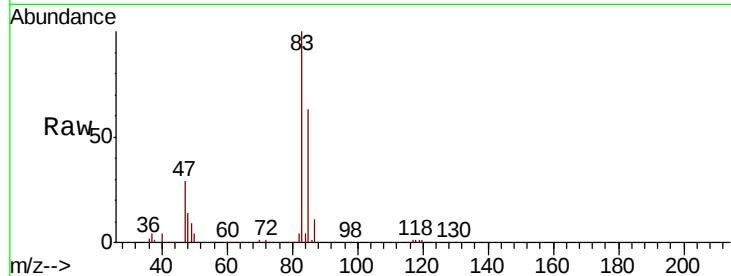
#29
Chloroform
Concen: 11.079 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0320ABS01

Tot Ion: 83 Resp: 1530499
Ion Ratio Lower Upper
83 100
85 63.2 52.0 78.0

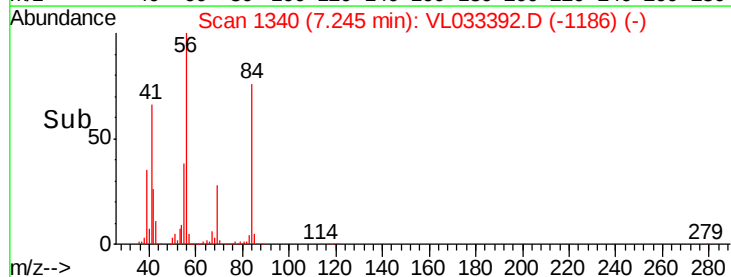
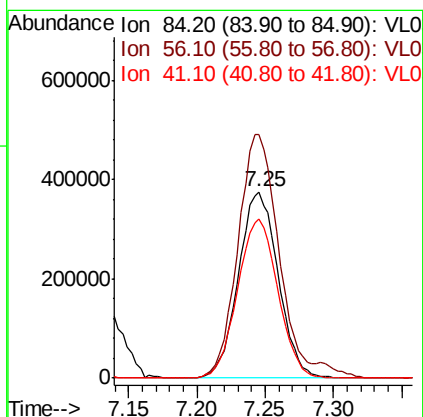
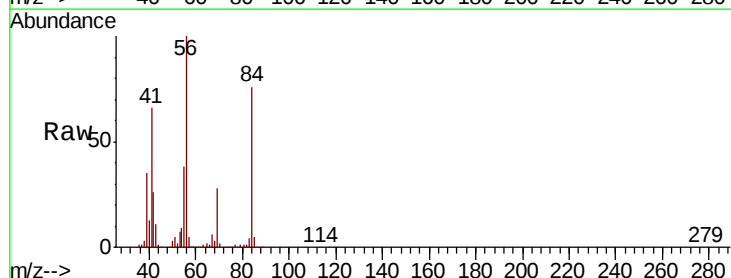
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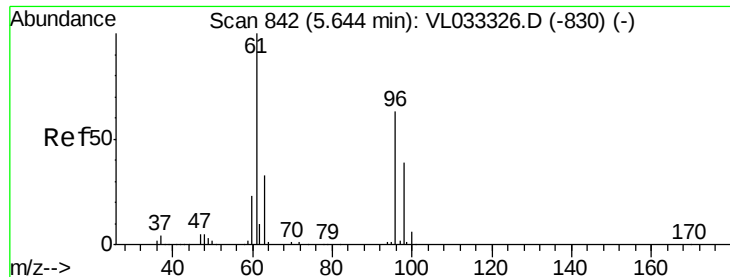
MMDadoda
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#30
Cyclohexane
Concen: 11.227 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tgt Ion: 84 Resp: 759380
Ion Ratio Lower Upper
84 100
56 137.1 111.3 166.9
41 86.7 69.6 104.4





#31

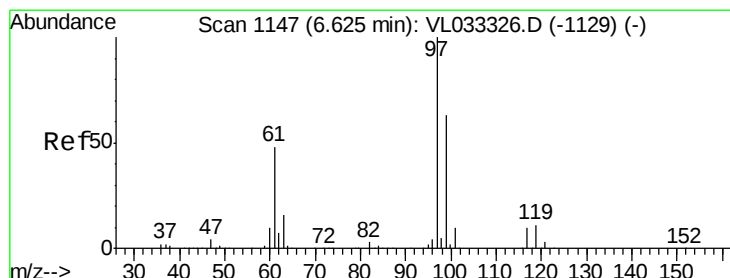
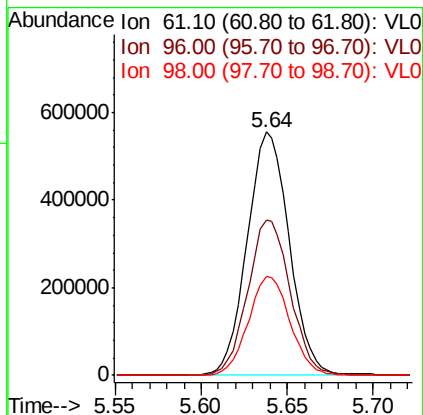
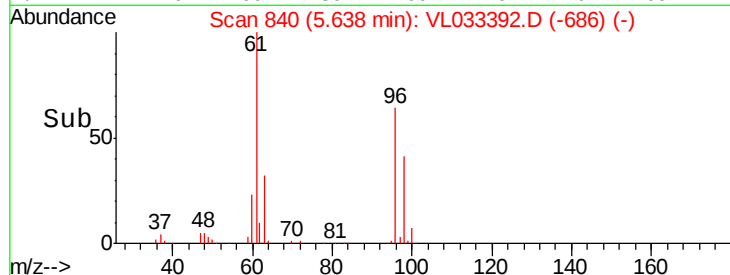
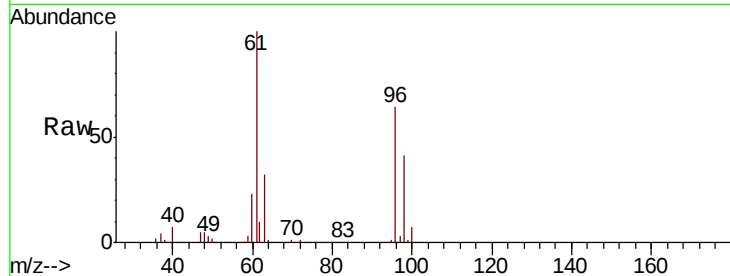
cis-1,2-Dichloroethene
Concen: 11.166 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0320ABS01

Tot Ion	Ratio	Resp	Lower	Upper
61	100	941900		
96	63.9		50.3	75.5
98	40.9		31.5	47.3

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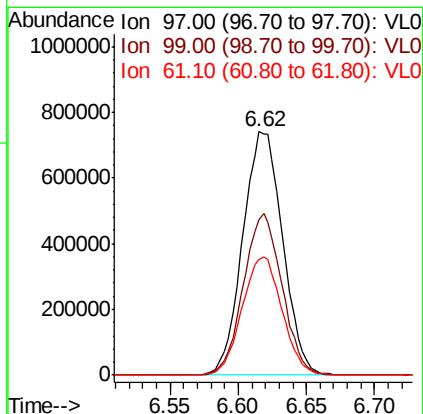
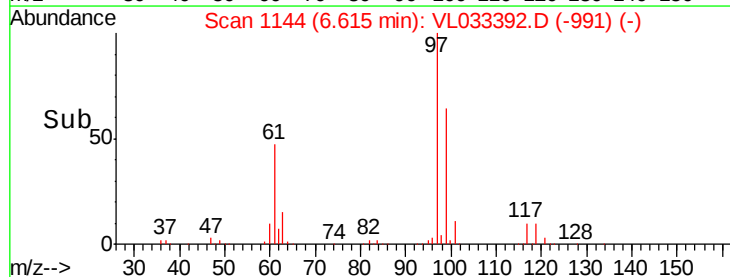
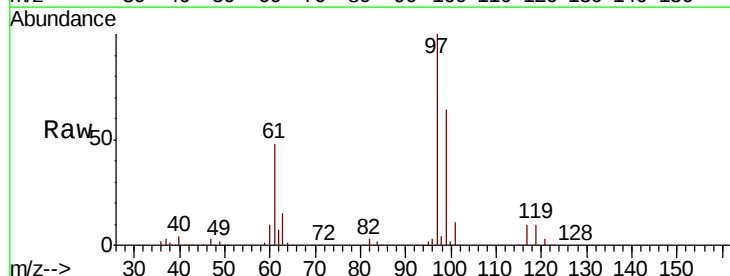
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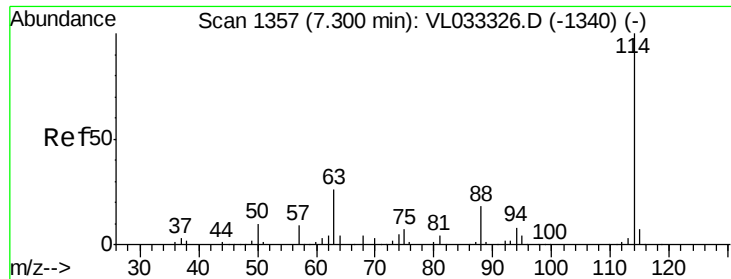


#32

1,1,1-Trichloroethane
Concen: 11.095 ppbv
RT: 6.62 min Scan# 1144
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	1504851		
99	64.1		51.0	76.6
61	48.7		39.3	58.9





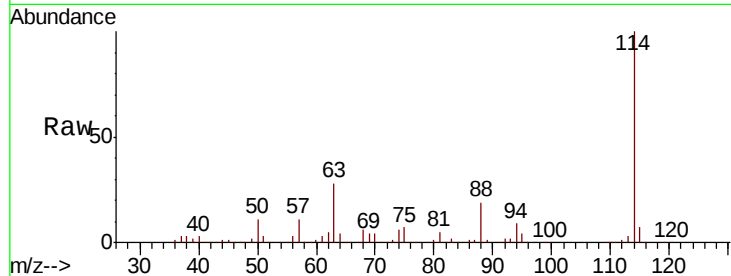
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

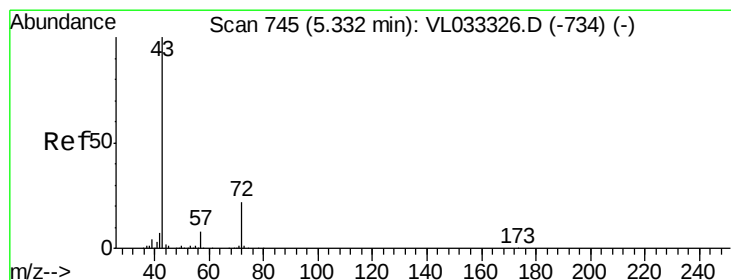
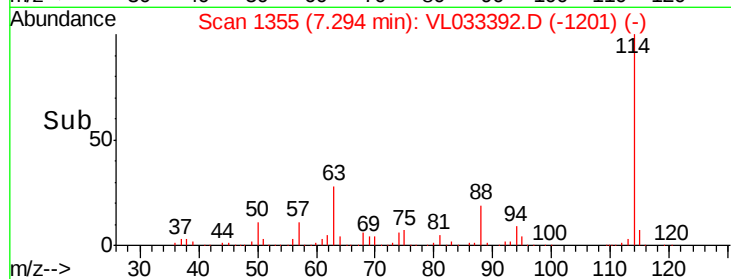
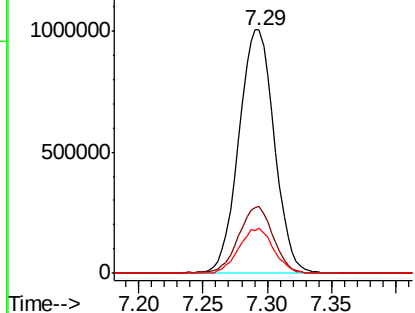
Tot Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.4	32.2
88	18.1	14.5	21.7

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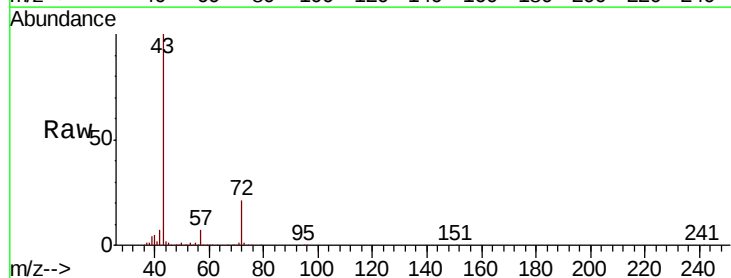


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

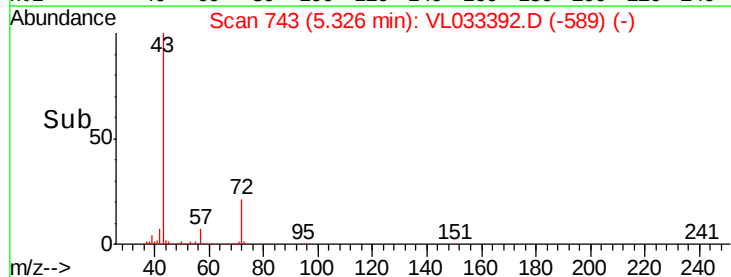
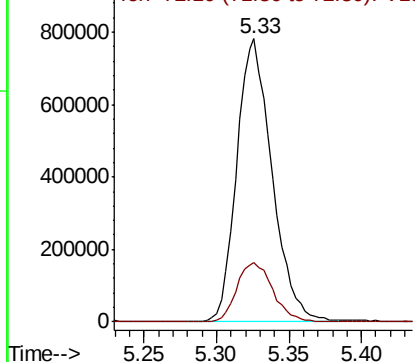


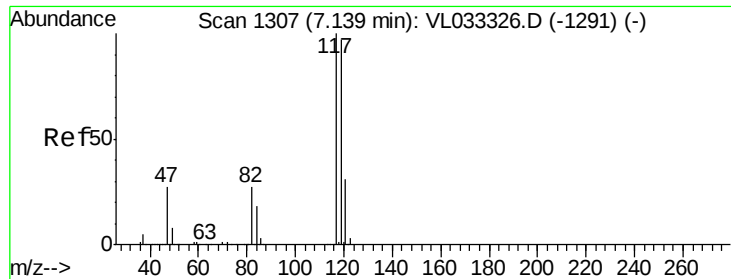
#34
 2-Butanone
 Concen: 10.417 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.7	26.5



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





#35

Carbon Tetrachloride

Concen: 11.765 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion:117 Resp: 1593838

Ion Ratio Lower Upper

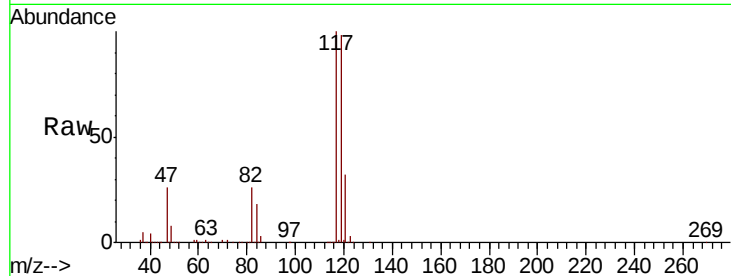
117 100

119 98.3 77.4 116.0

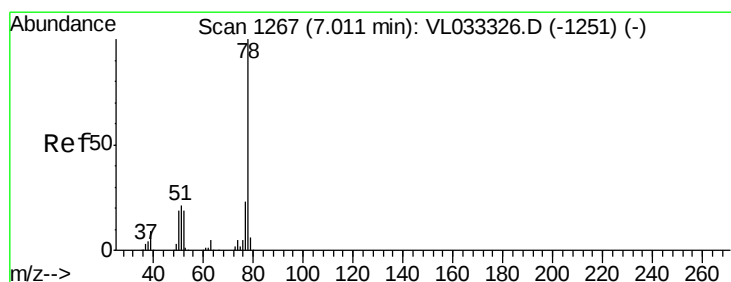
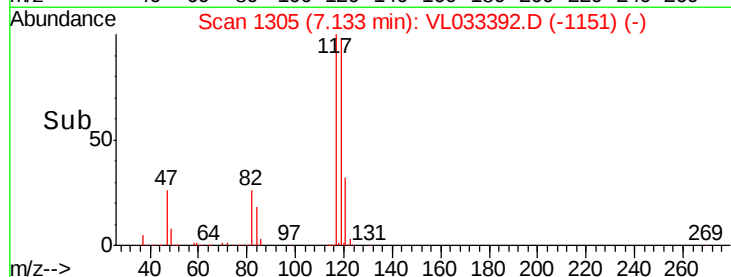
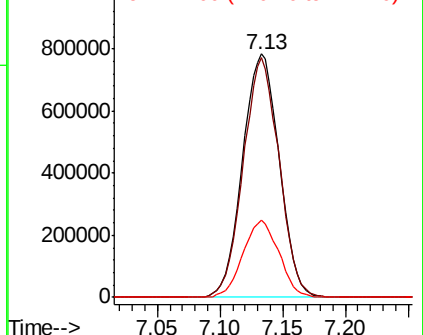
121 31.9 24.9 37.3

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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: 10.807 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

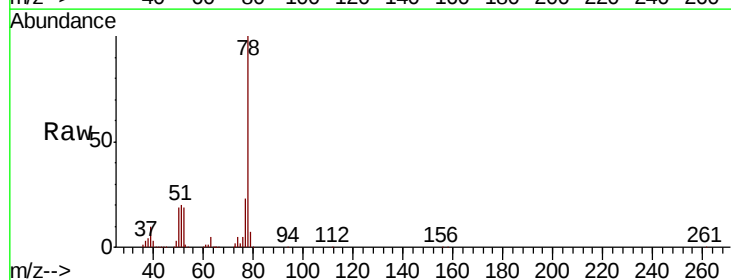
Tgt Ion: 78 Resp: 1858671

Ion Ratio Lower Upper

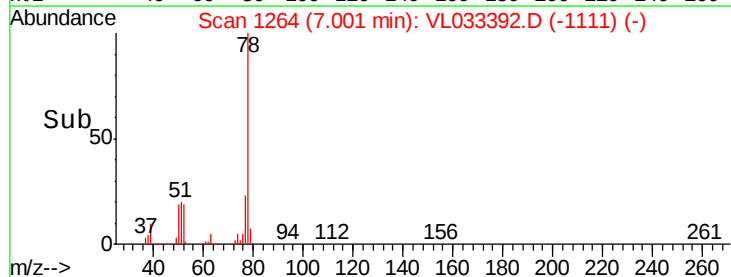
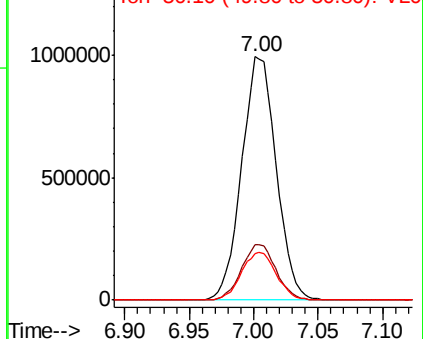
78 100

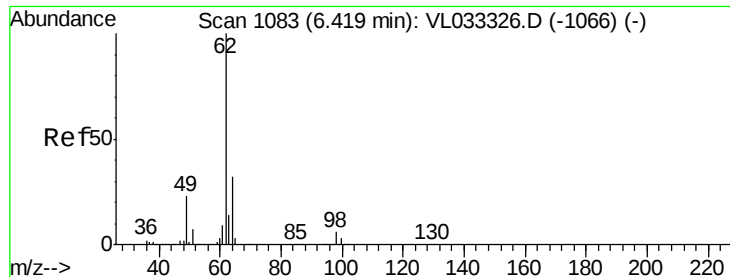
77 22.7 18.1 27.1

50 19.3 15.2 22.8



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





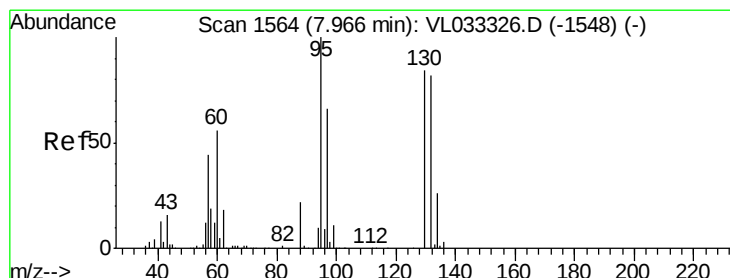
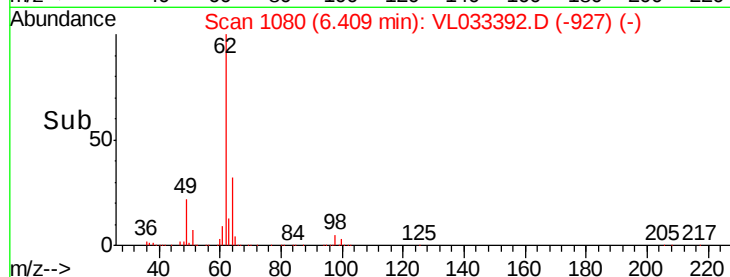
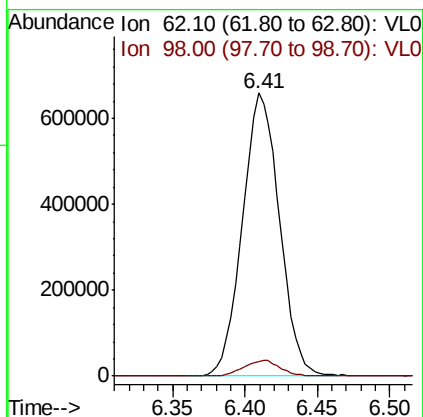
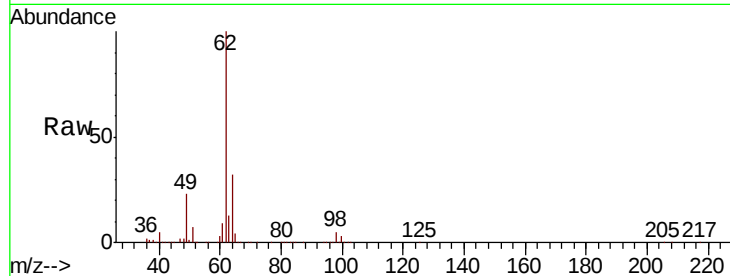
#37
 1,2-Dichloroethane
 Concen: 10.780 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion: 62 Resp: 1172214
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.5 6.7

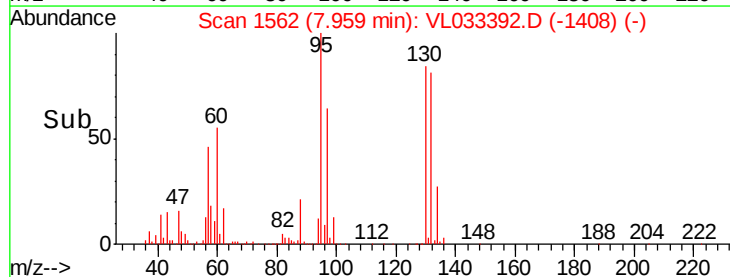
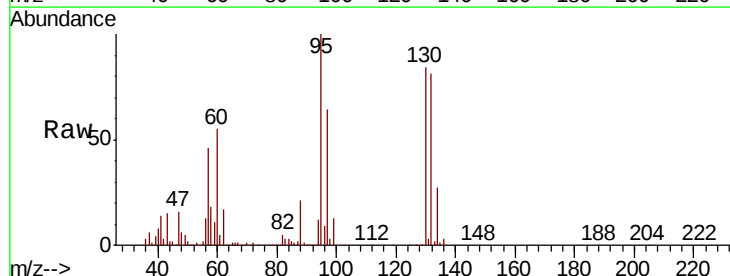
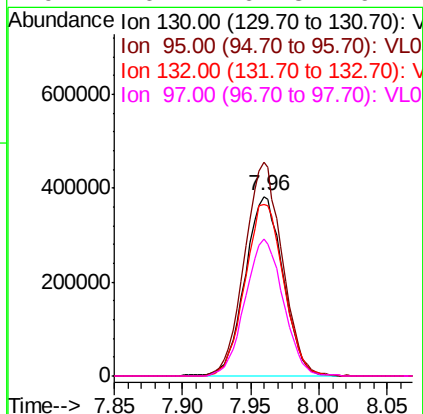
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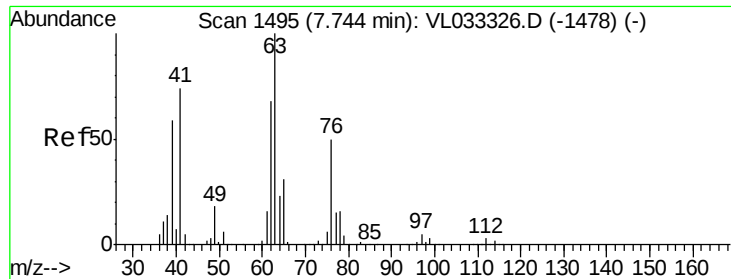
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#38
 Trichloroethene
 Concen: 11.446 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion: 130 Resp: 744873
 Ion Ratio Lower Upper
 130 100
 95 119.0 95.2 142.8
 132 95.8 77.7 116.5
 97 76.4 62.8 94.2





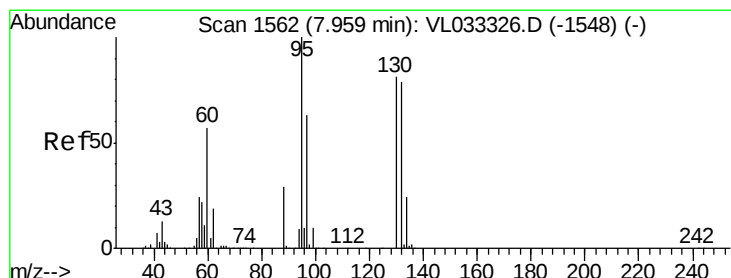
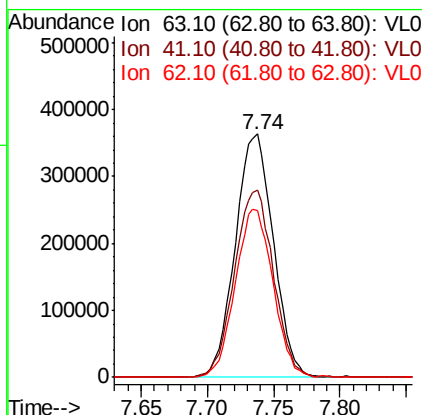
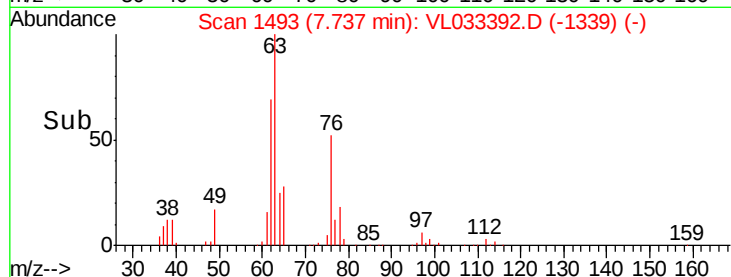
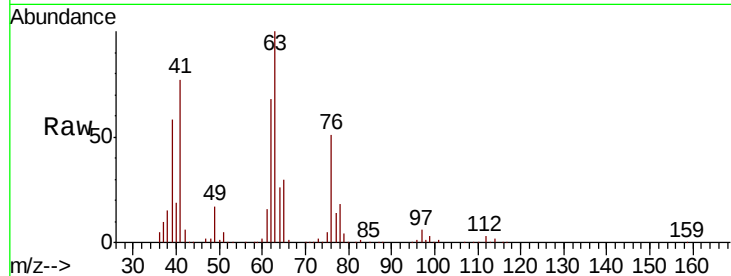
#39
 1,2-Dichloropropane
 Concen: 11.210 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.8	59.5	89.3
62	68.4	54.7	82.1

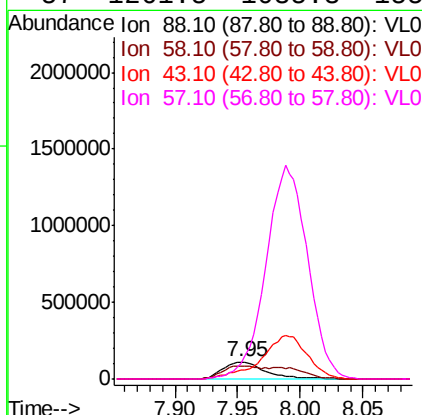
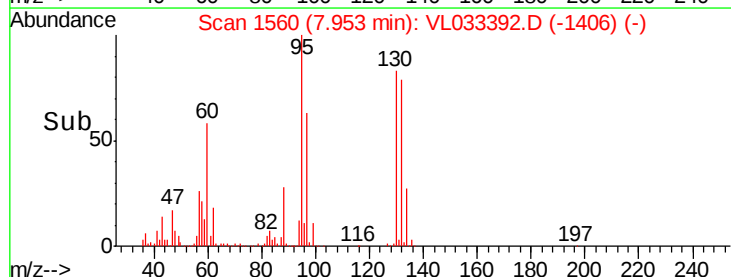
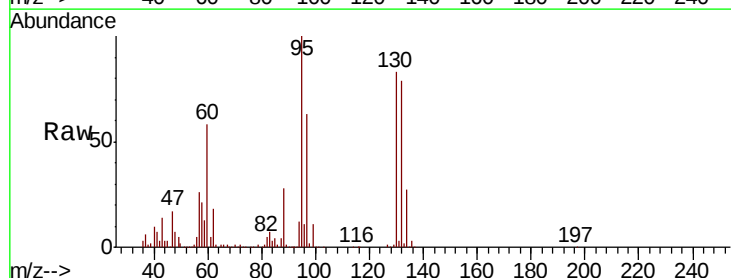
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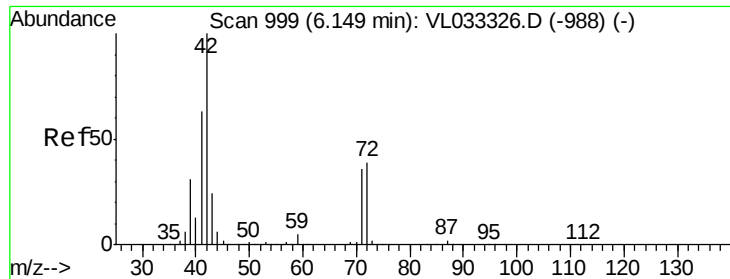
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#40
 1,4-Dioxane
 Concen: 11.287 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
88	100		
58	131.3	107.9	161.9
43	282.4	230.8	346.2
57	1261.5	1035.3	1552.9





#41

Tetrahydrofuran

Concen: 11.129 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

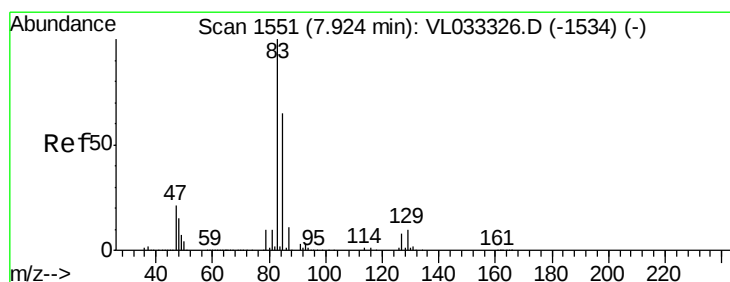
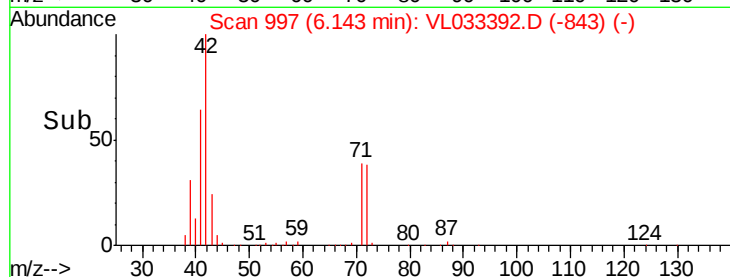
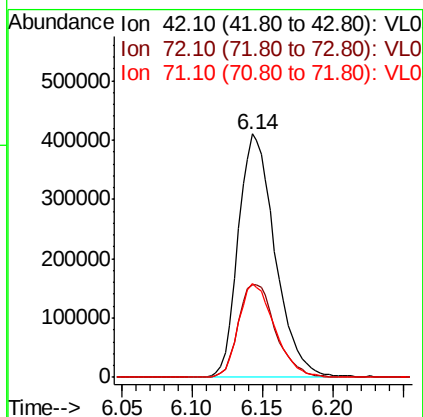
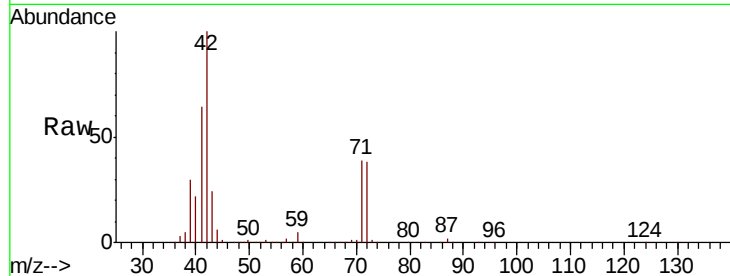
ClientSampleId :

VL0320ABS01

Tot Ion:	42	Resp:	749539
Ion Ratio	Lower	Upper	
42	100		
72	39.0	31.6	47.4
71	38.2	29.9	44.9

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#42

Bromodichloromethane

Concen: 11.694 ppbv

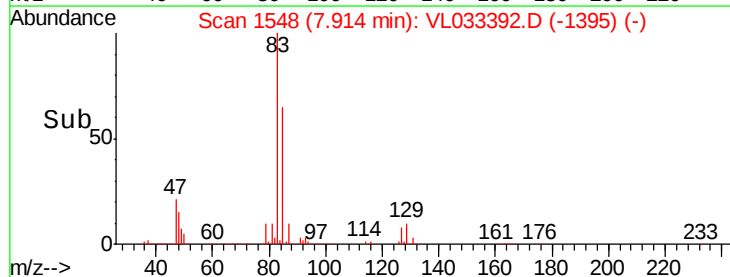
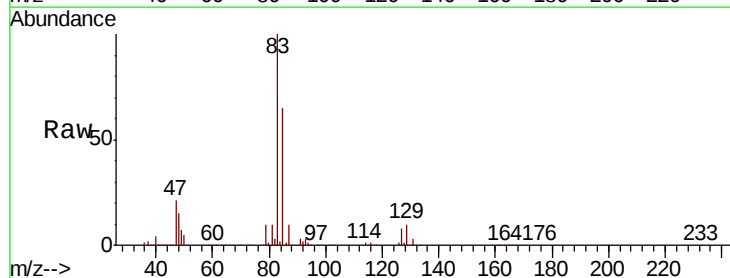
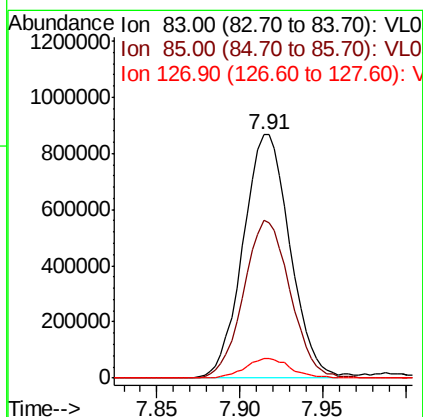
RT: 7.91 min Scan# 1548

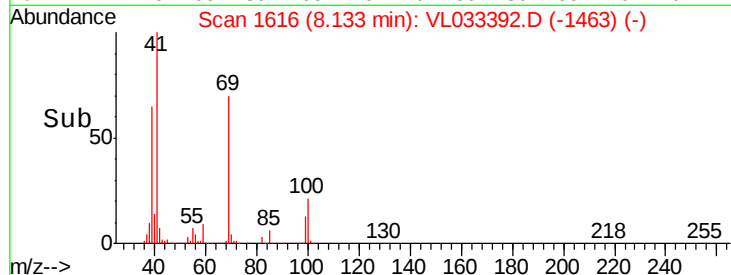
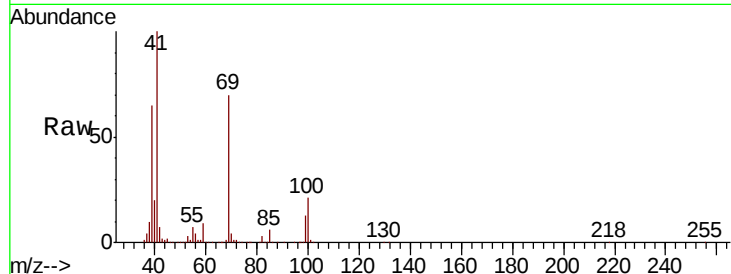
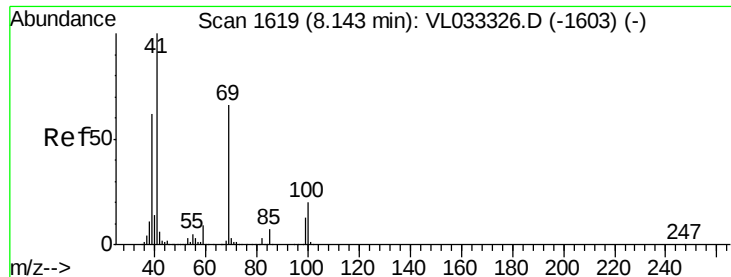
Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Tgt Ion:	83	Resp:	1704991
Ion Ratio	Lower	Upper	
83	100		
85	64.7	51.8	77.6
127	8.2	6.2	9.2





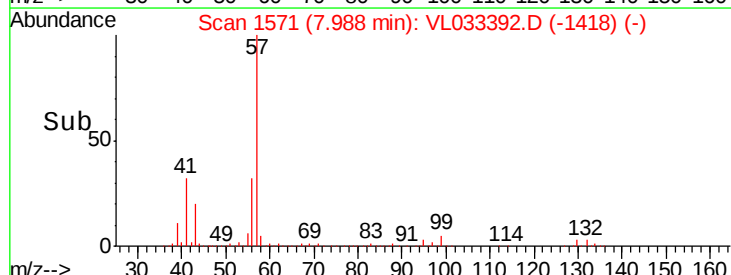
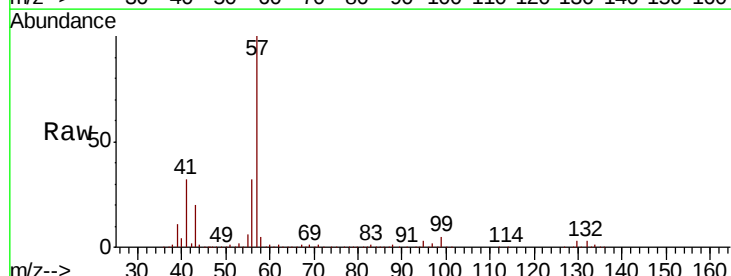
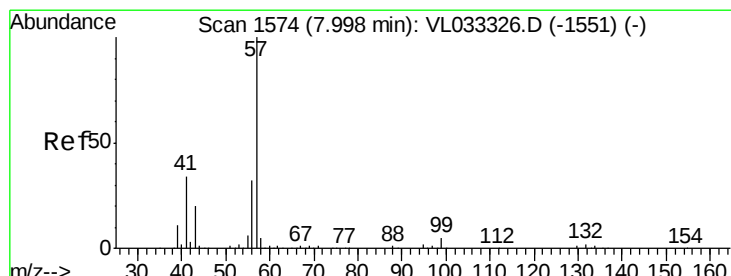
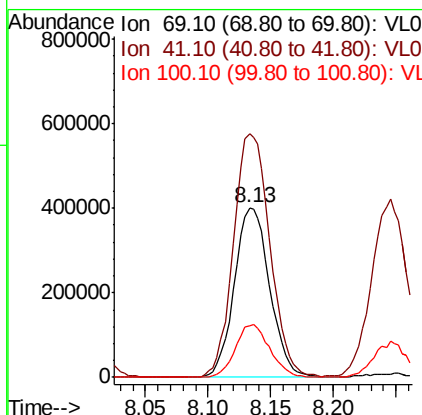
#43
Methyl Methacrylate
Concen: 11.738 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.9	119.5	179.3
100	30.3	24.4	36.6

Instrument :
MSVOA_L
ClientSampleId :
VL0320ABS01

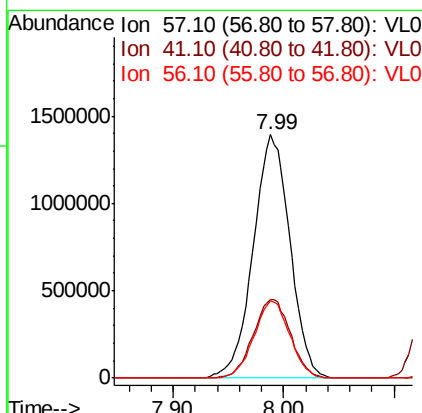
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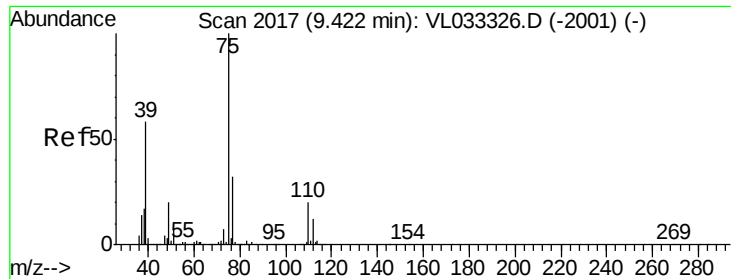
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#44
2,2,4-Trimethylpentane
Concen: 11.326 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.7	26.0	39.0
56	30.9	24.6	36.8





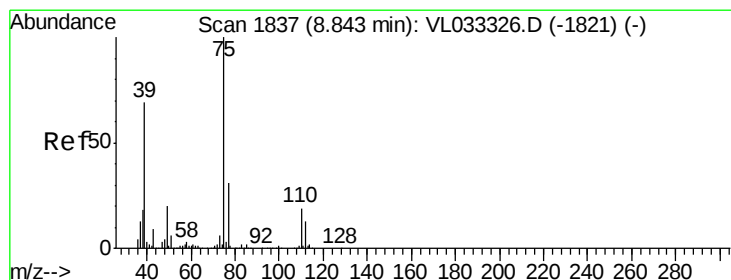
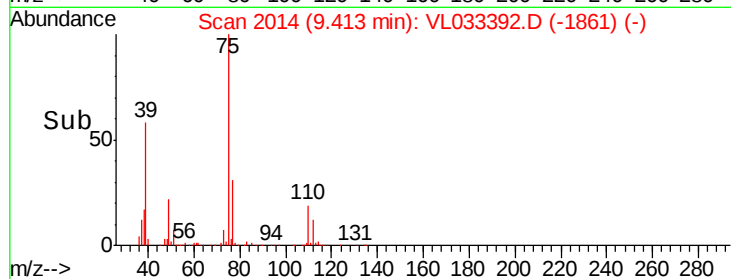
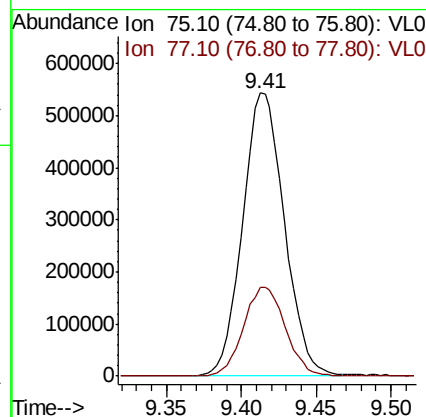
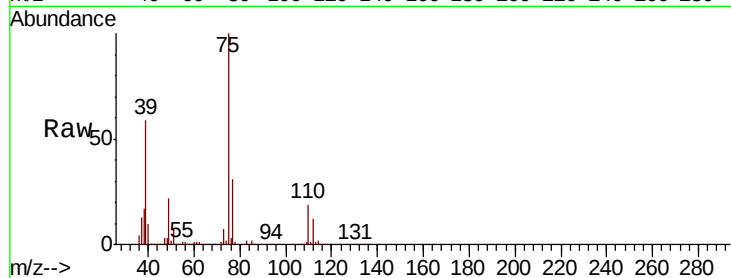
#45
 t-1,3-Dichloropropene
 Concen: 12.771 ppbv
 RT: 9.41 min Scan# 2014
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion: 75 Resp: 1055859
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.5 38.3

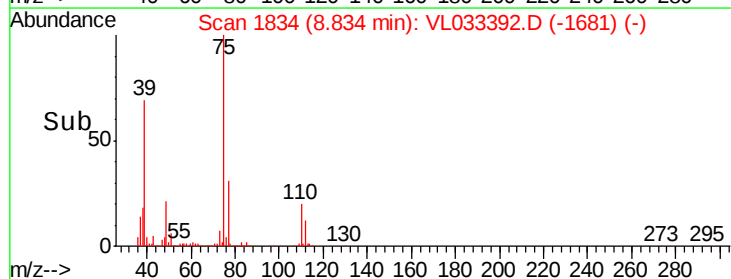
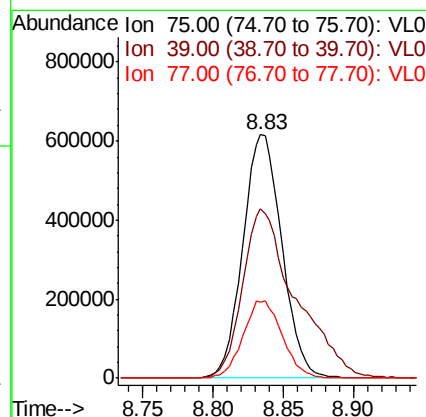
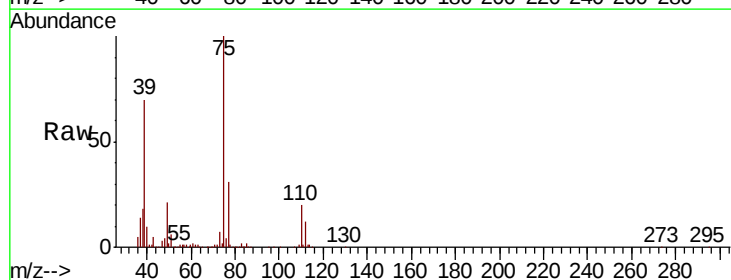
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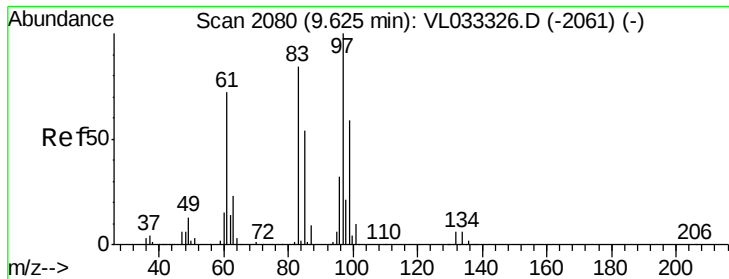
MMDadoda
 3/25/2019 8:26:24 AM



#46
 cis-1,3-Dichloropropene
 Concen: 12.272 ppbv
 RT: 8.83 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion: 75 Resp: 1194617
 Ion Ratio Lower Upper
 75 100
 39 69.5 55.0 82.6
 77 31.0 24.5 36.7





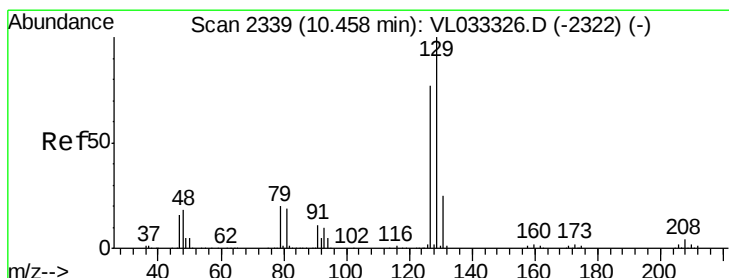
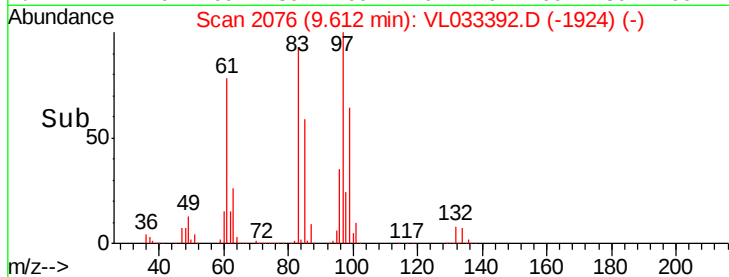
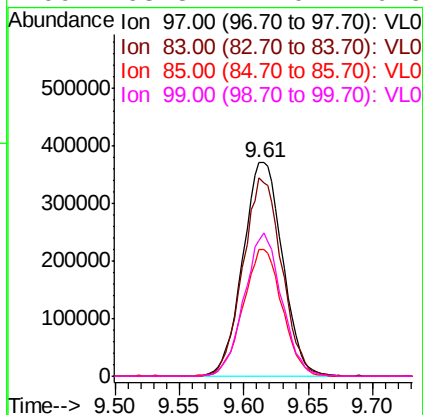
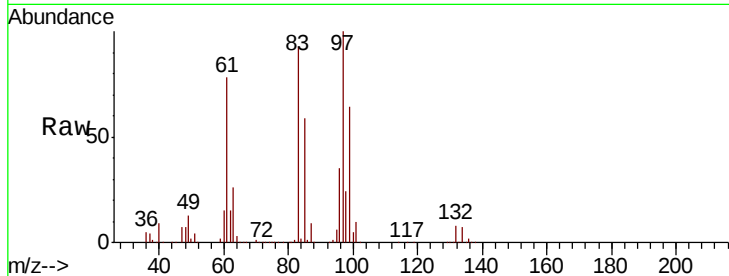
#47
 1,1,2-Trichloroethane
 Concen: 11.190 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	92.6	67.4	101.0
85	59.3	43.0	64.4
99	63.8	47.0	70.6

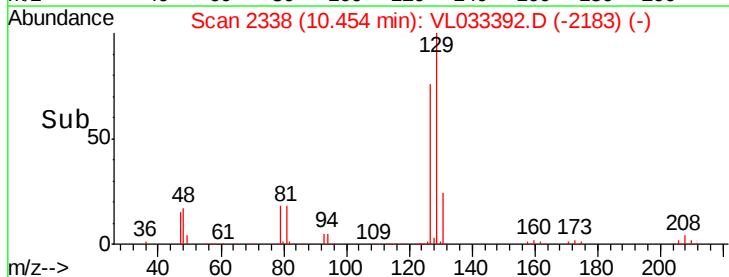
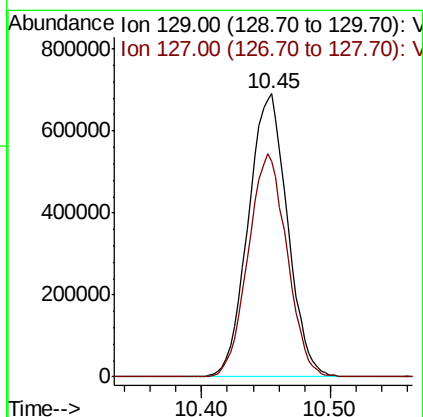
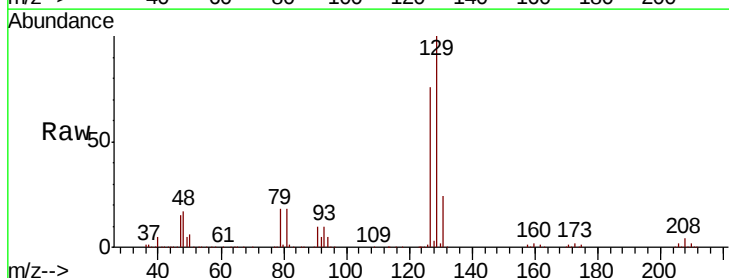
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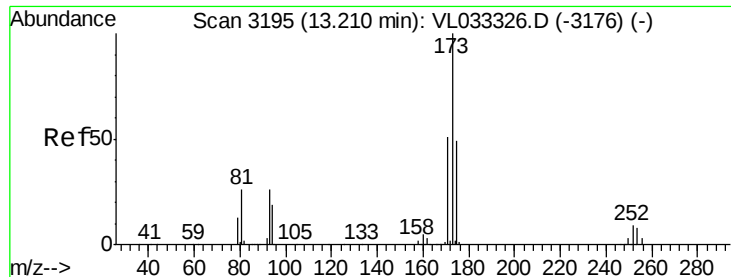
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#48
 Dibromochloromethane
 Concen: 12.264 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	38.9	116.6





#49

Bromoform

Concen: 11.772 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion:173 Resp: 1332649

Ion Ratio Lower Upper

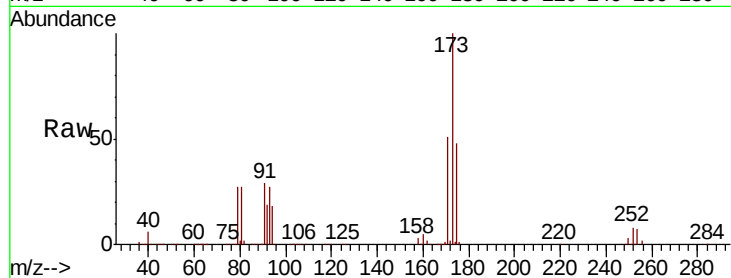
173 100

175 48.5 39.0 58.6

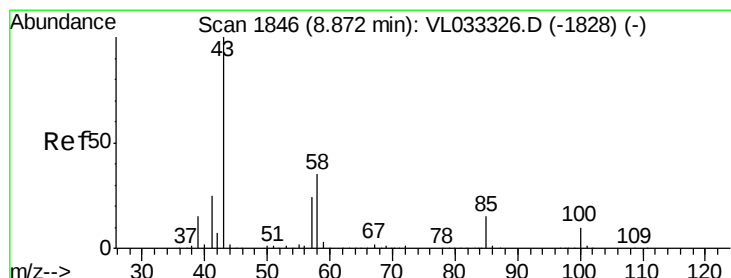
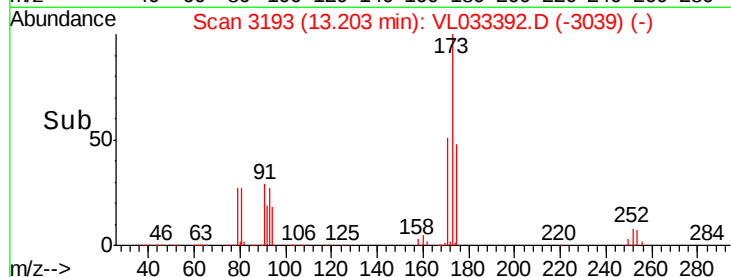
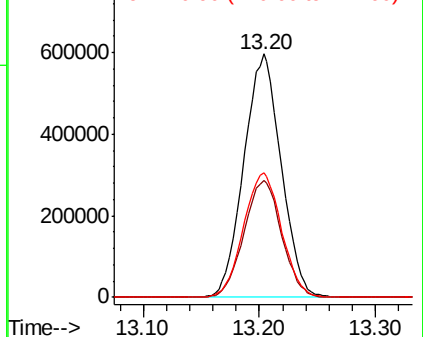
171 52.0 41.7 62.5

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



#50

4-Methyl-2-Pentanone

Concen: 11.322 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL033392.D

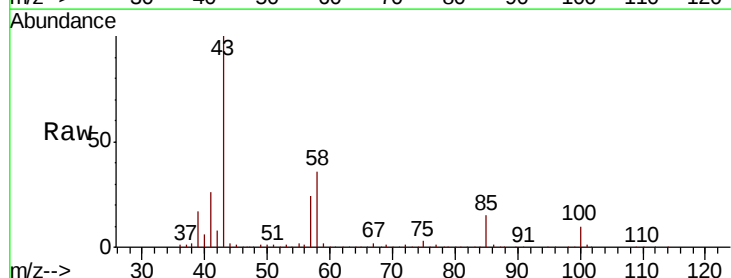
Acq: 20 Mar 2019 16:33

Tgt Ion: 43 Resp: 2018355

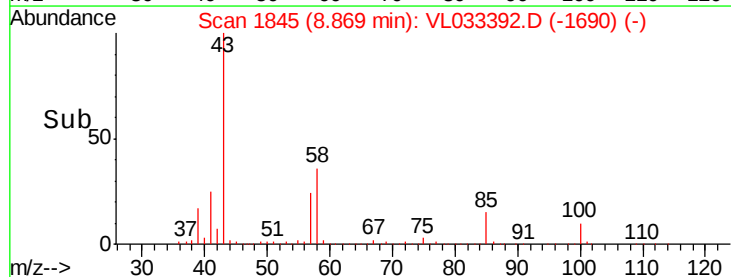
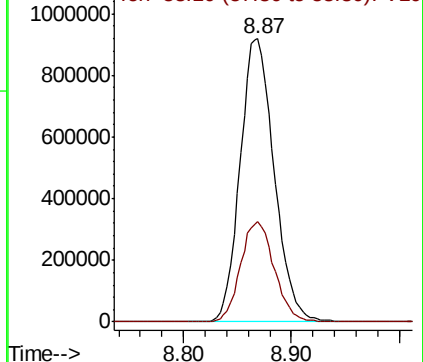
Ion Ratio Lower Upper

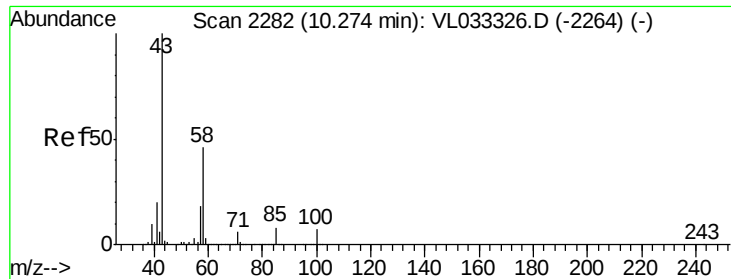
43 100

58 35.1 28.4 42.6



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





#51

2-Hexanone

Concen: 11.296 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 43 Resp: 1553608

Ion Ratio Lower Upper

43 100

58 47.3 38.0 57.0

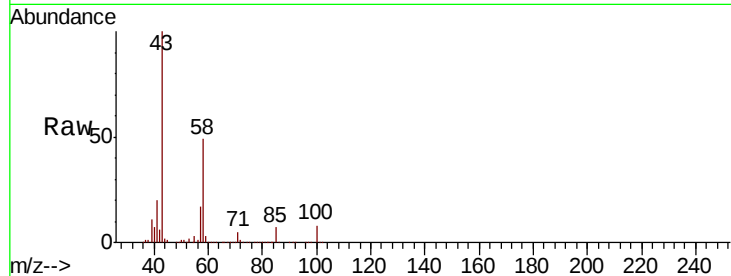
98 0.2 0.1 0.1#

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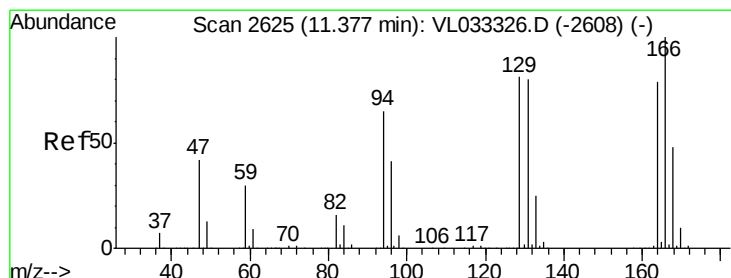
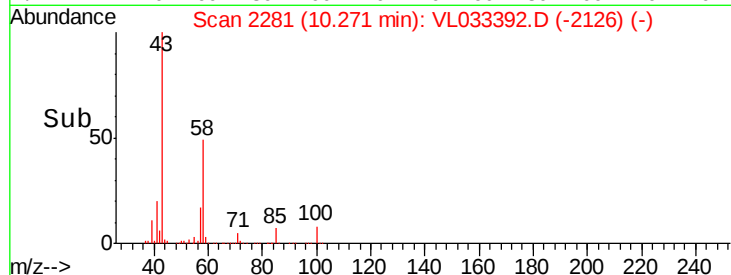
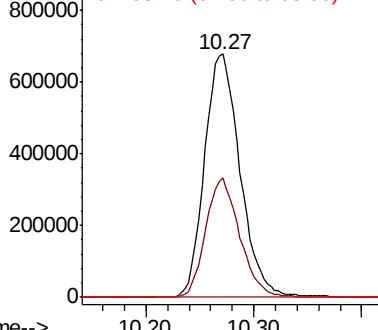
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.392 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Tgt Ion: 164 Resp: 744582

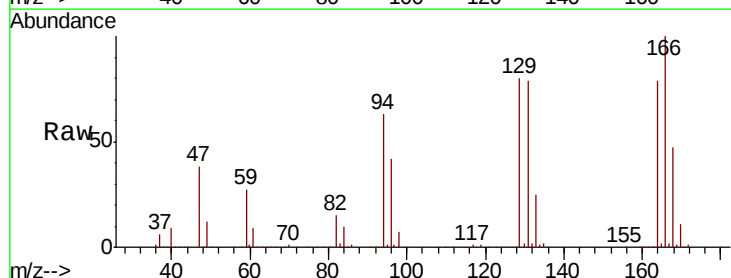
Ion Ratio Lower Upper

164 100

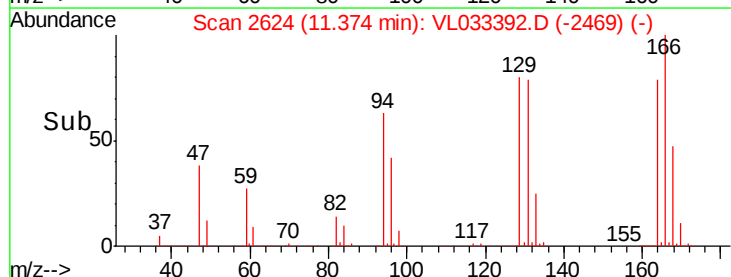
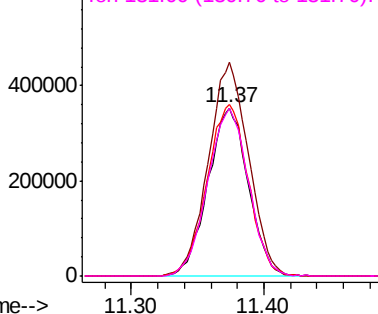
166 127.0 101.5 152.3

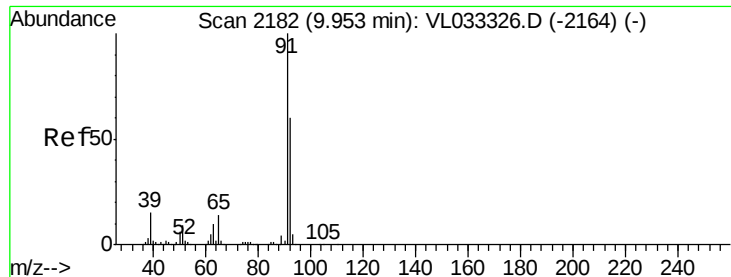
129 101.8 82.2 123.2

131 99.8 81.1 121.7



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: 11.690 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 91 Resp: 2284381

Ion Ratio Lower Upper

91 100

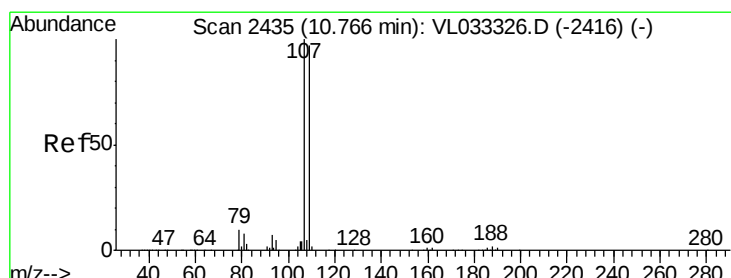
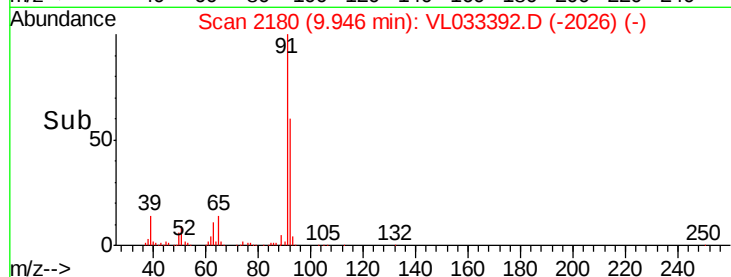
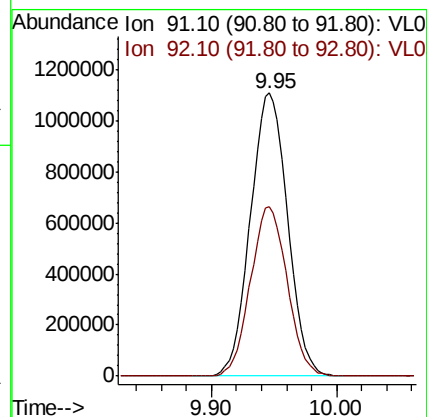
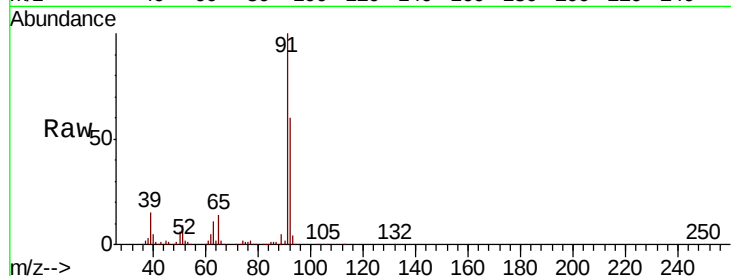
92 59.4 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 10.973 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033392.D

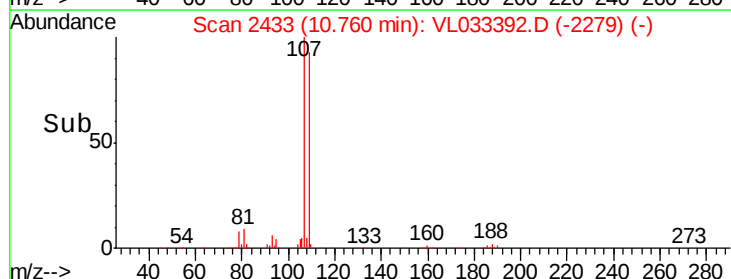
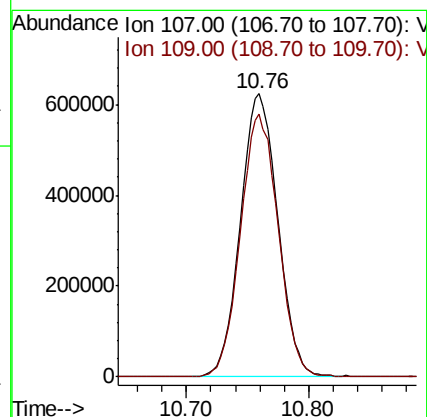
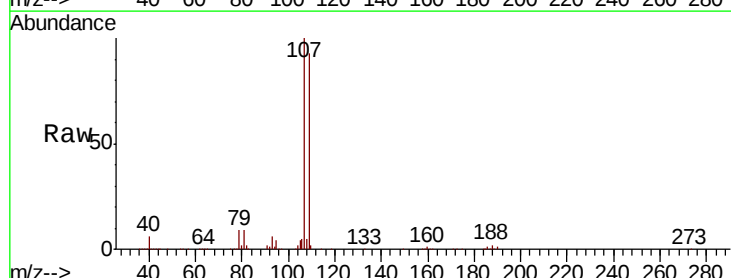
Acq: 20 Mar 2019 16:33

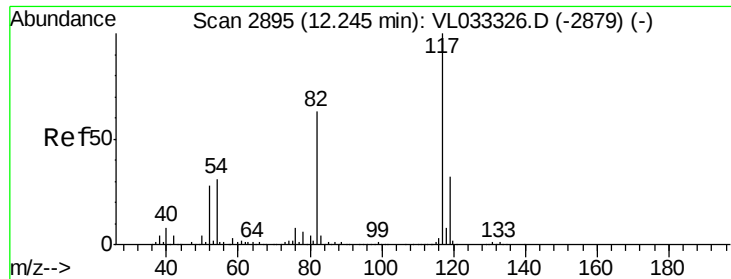
Tgt Ion: 107 Resp: 1320032

Ion Ratio Lower Upper

107 100

109 93.1 77.2 115.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion:117 Resp: 2125264

Ion Ratio Lower Upper

117 100

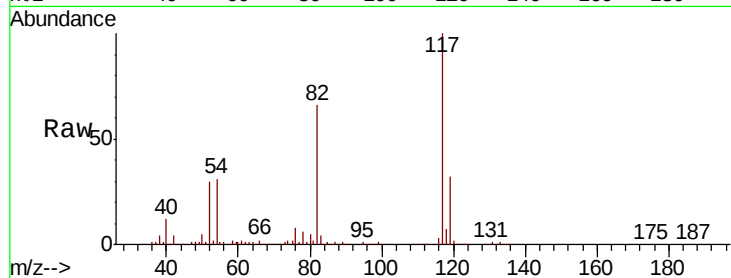
82 63.1 53.4 80.2

119 26.7 27.3 40.9#

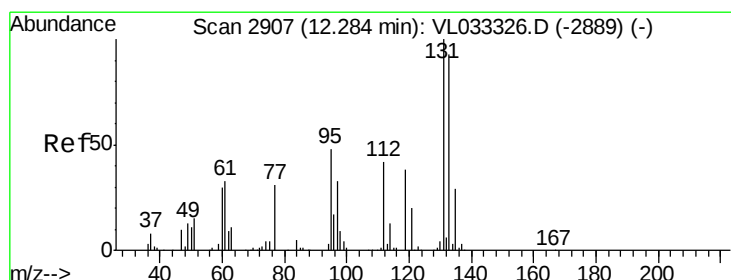
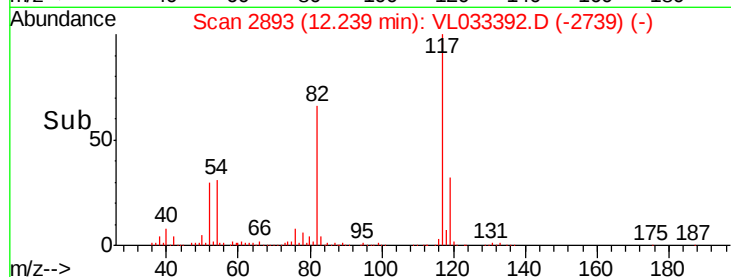
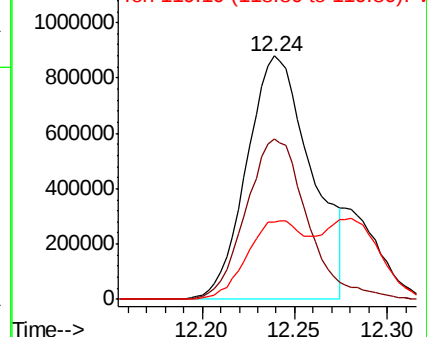
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Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 10.950 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

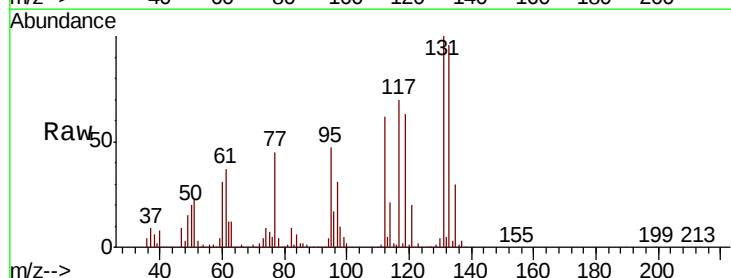
Tgt Ion:131 Resp: 1040991

Ion Ratio Lower Upper

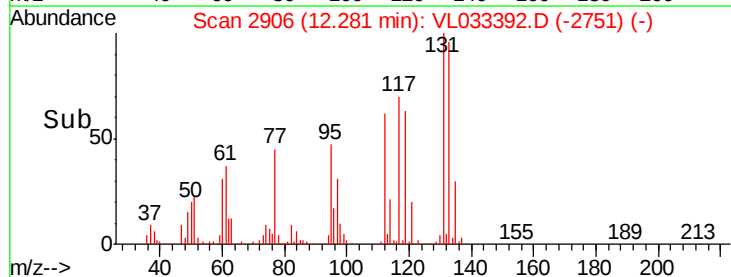
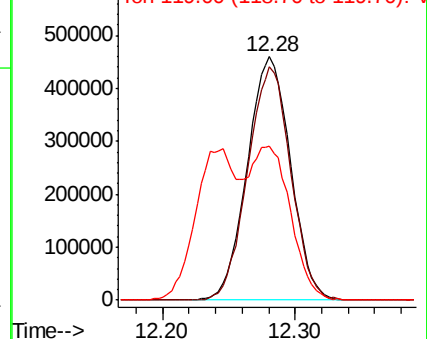
131 100

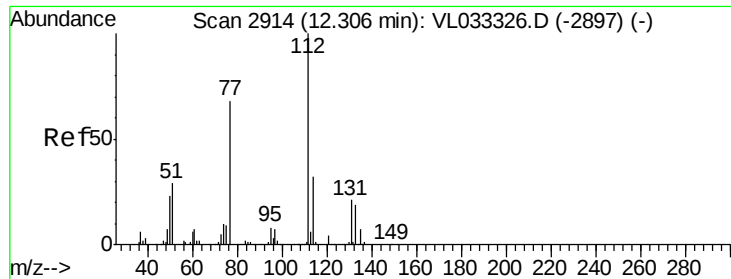
133 95.5 76.7 115.1

119 58.8 40.3 60.5



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





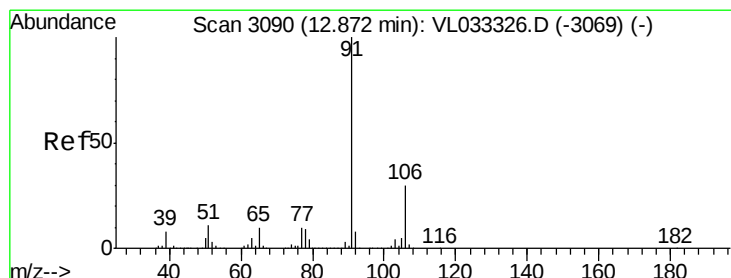
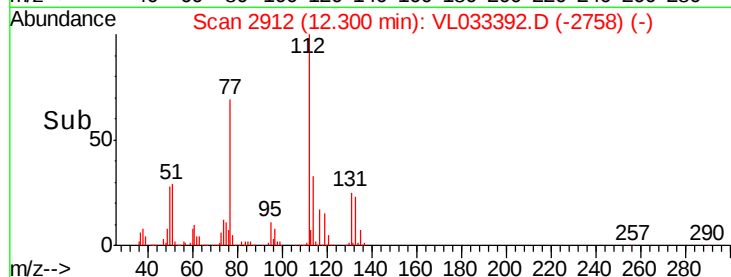
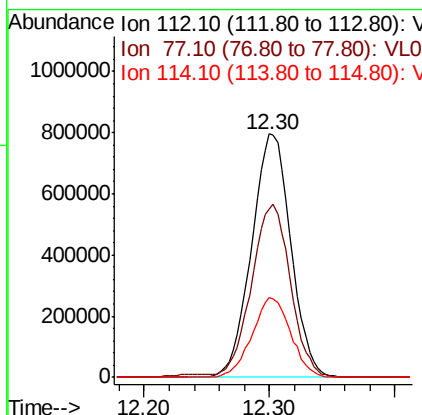
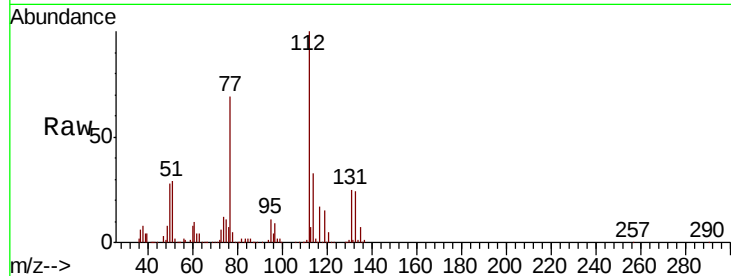
#57
Chlorobenzene
Concen: 10.289 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0320ABS01

Tot Ion:112 Resp: 1731924
Ion Ratio Lower Upper
112 100
77 68.9 55.8 83.6
114 32.6 28.6 35.0

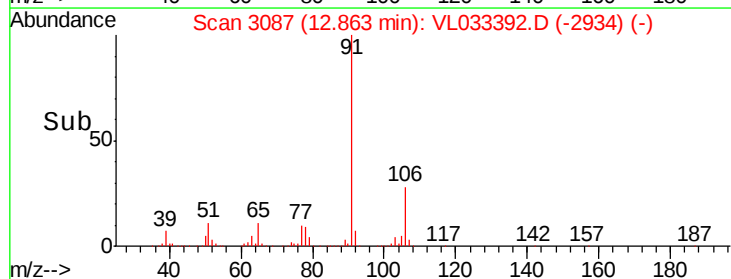
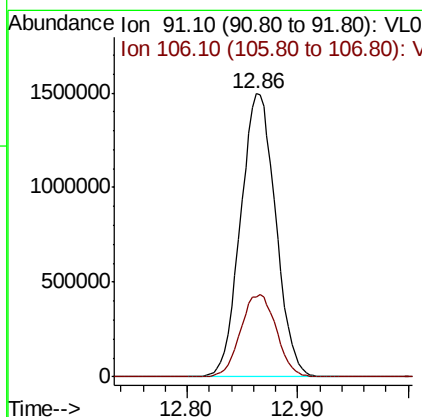
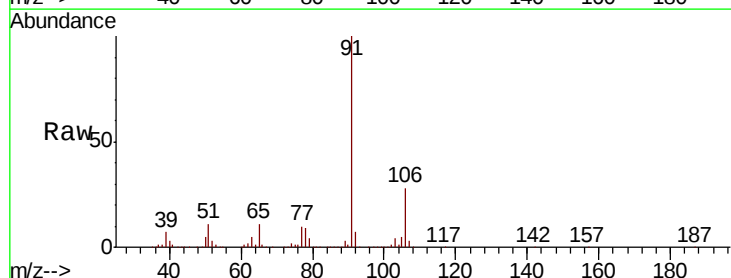
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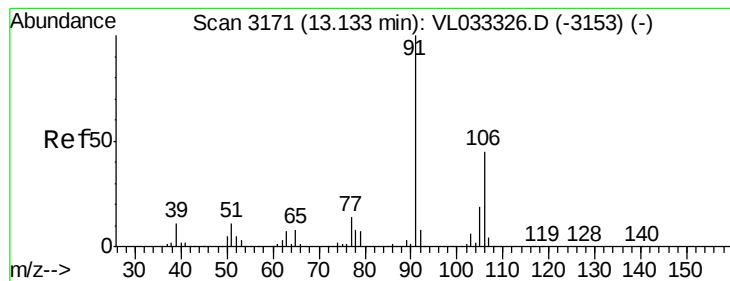
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#58
Ethyl Benzene
Concen: 10.943 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tgt Ion: 91 Resp: 3289958
Ion Ratio Lower Upper
91 100
106 28.4 24.2 36.2





#59

m/p-Xylene

Concen: 21.362 ppbv m

RT: 13.12 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion: 91 Resp: 5519284

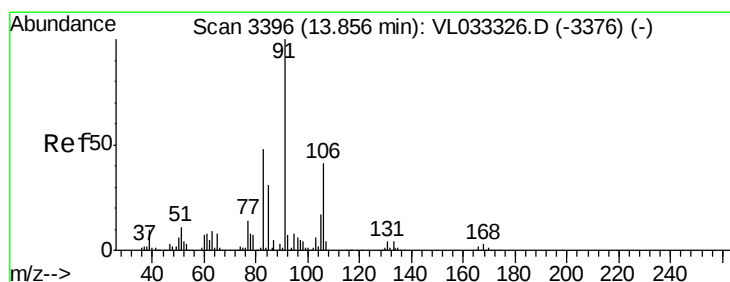
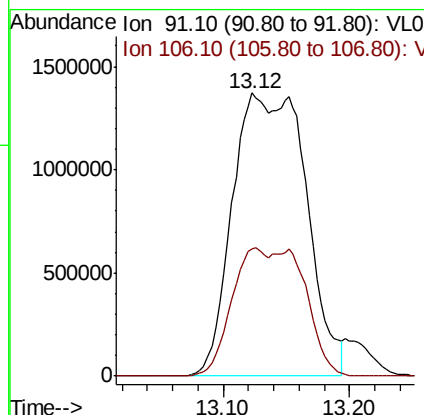
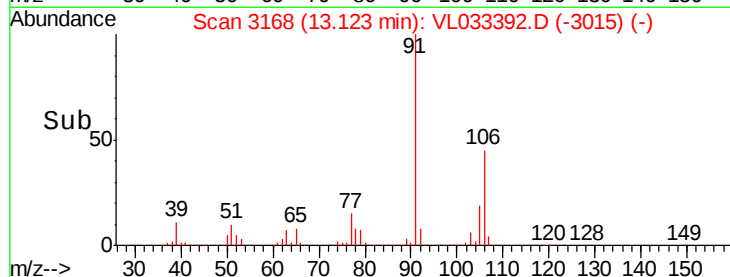
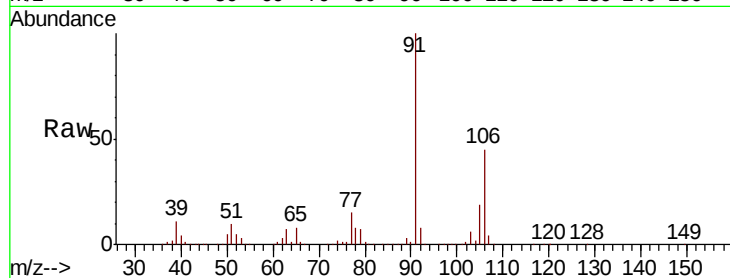
Ion Ratio Lower Upper

91 100

106 44.5 0.0 0.0#

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#60

o-Xylene

Concen: 10.602 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.01 min

Lab File: VL033392.D

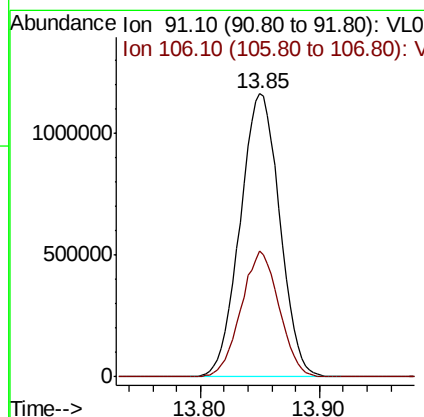
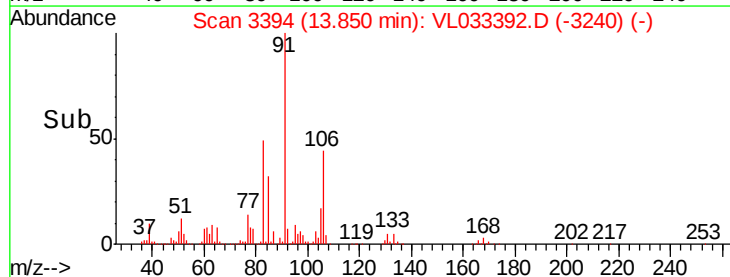
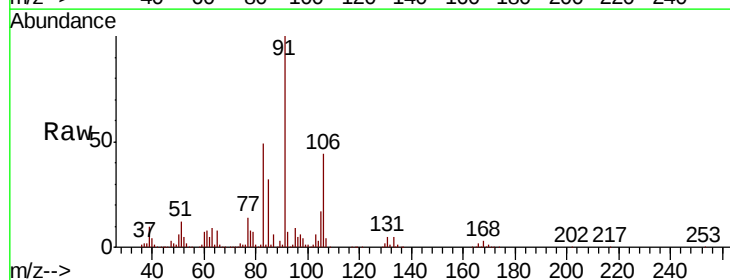
Acq: 20 Mar 2019 16:33

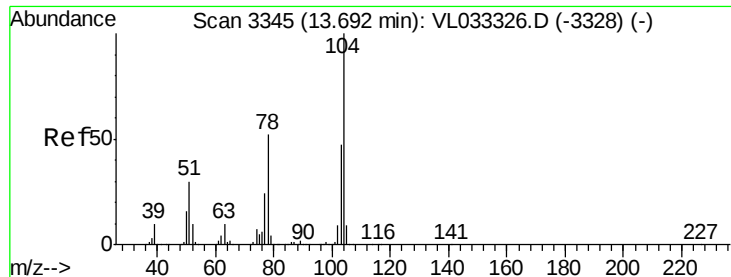
Tgt Ion: 91 Resp: 2672308

Ion Ratio Lower Upper

91 100

106 42.8 21.3 63.9





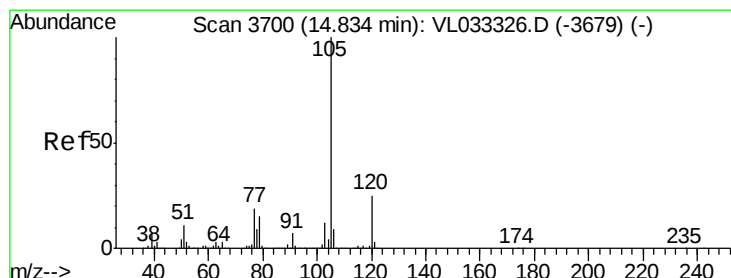
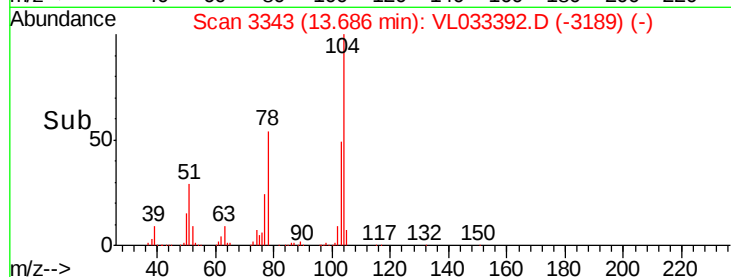
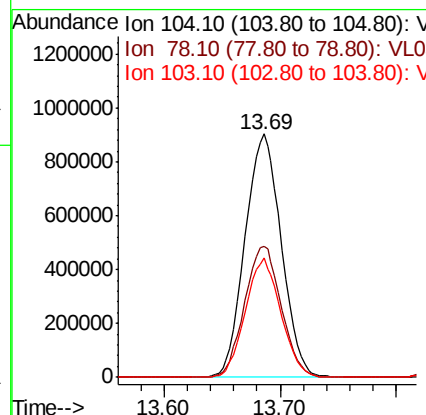
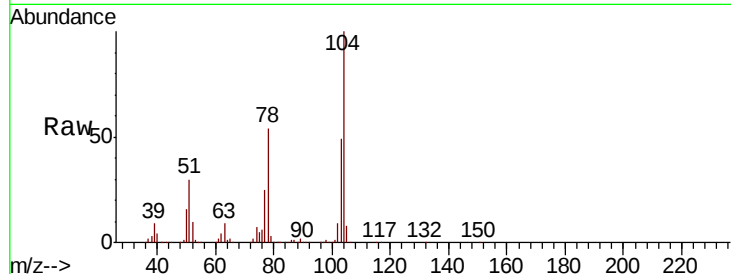
#61
Stvrene
Concen: 11.104 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0320ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.5	42.7	64.1
103	47.9	38.0	57.0

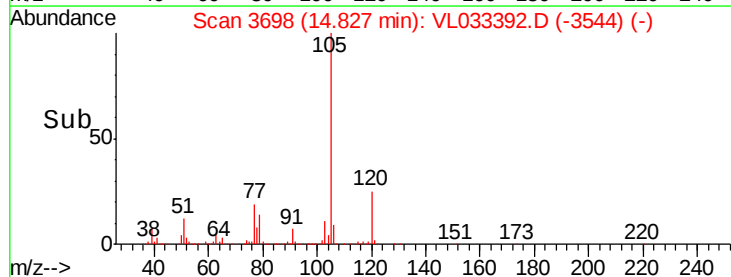
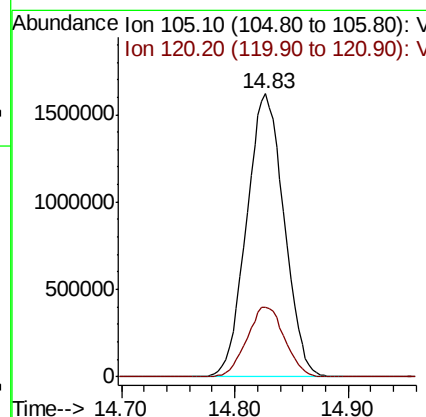
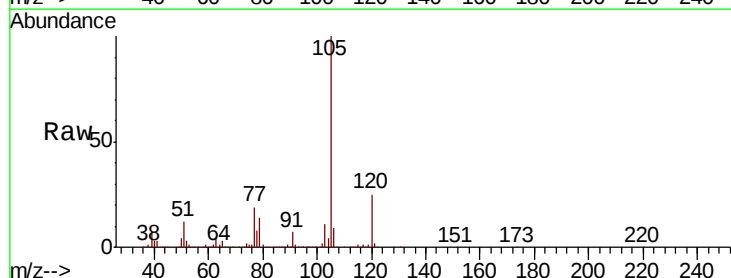
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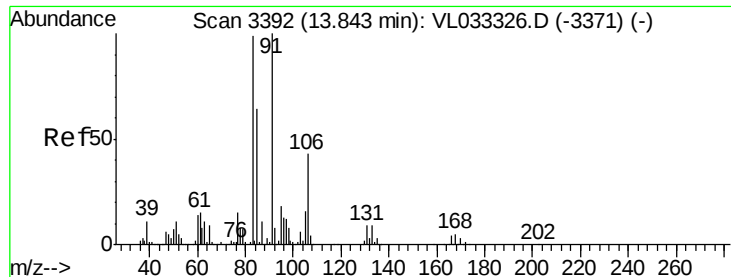
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#62
Isopropylbenzene
Concen: 10.648 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.9	29.9





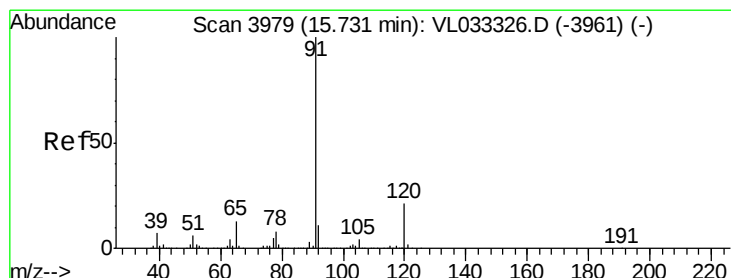
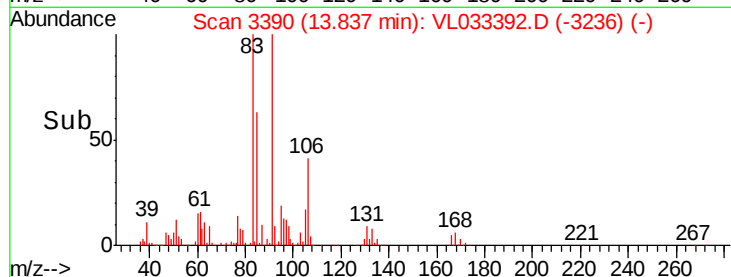
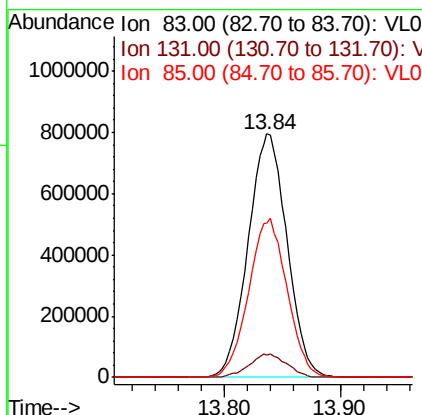
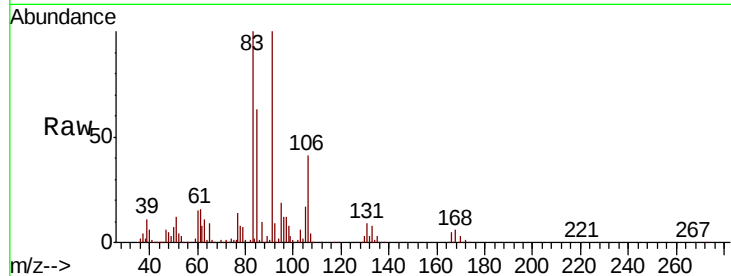
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.179 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion: 83 Resp: 1854753
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.7 14.0
 85 64.6 32.5 97.4

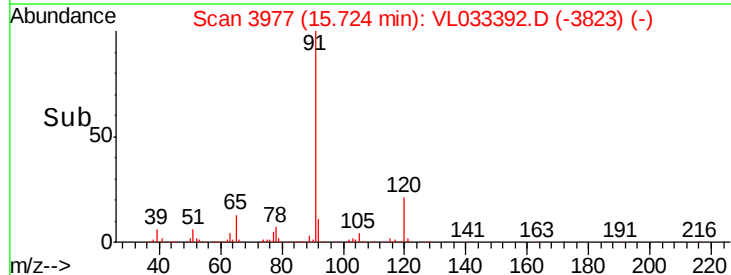
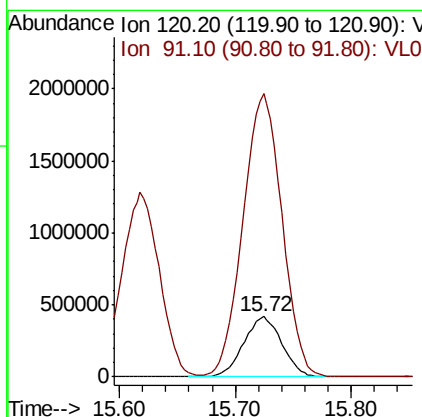
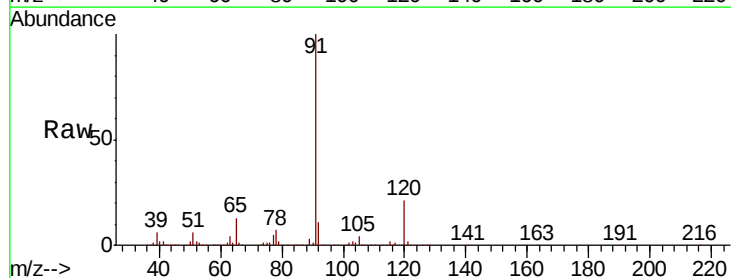
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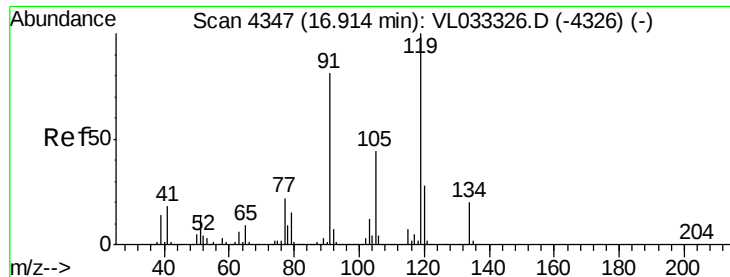
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#64
 n-propylbenzene
 Concen: 10.746 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion:120 Resp: 952848
 Ion Ratio Lower Upper
 120 100
 91 483.8 389.8 584.6





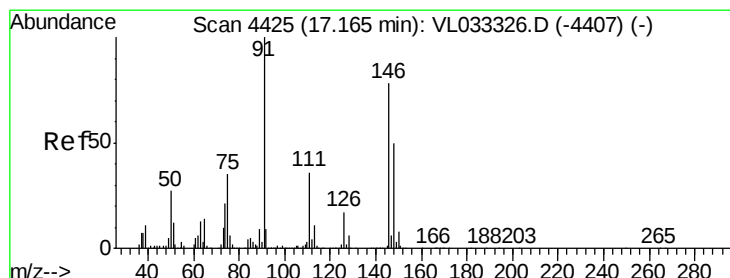
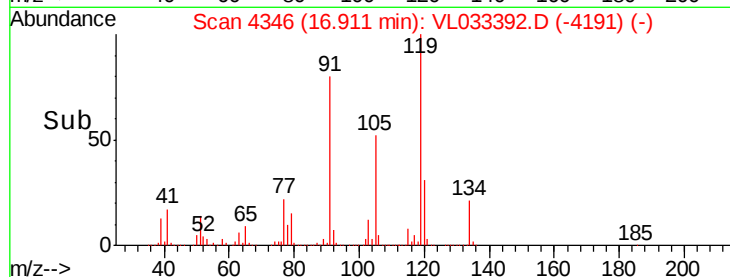
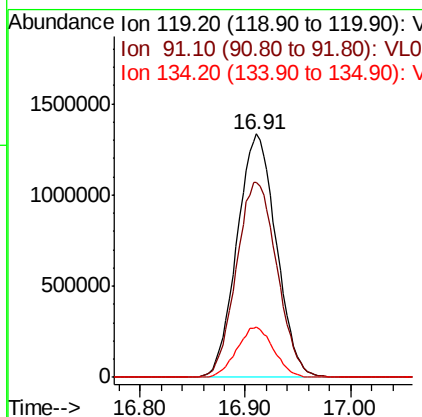
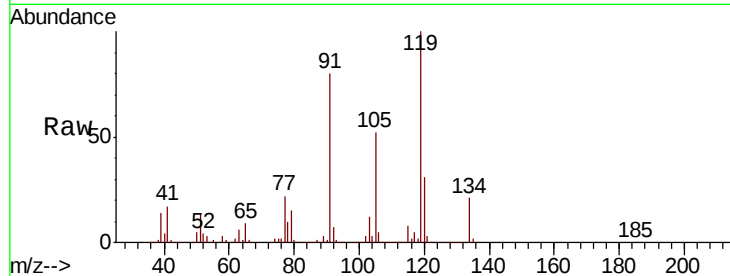
#65
tert-Butylbenzene
Concen: 10.911 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0320ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	83.2	67.2	100.8
134	19.4	15.4	23.2

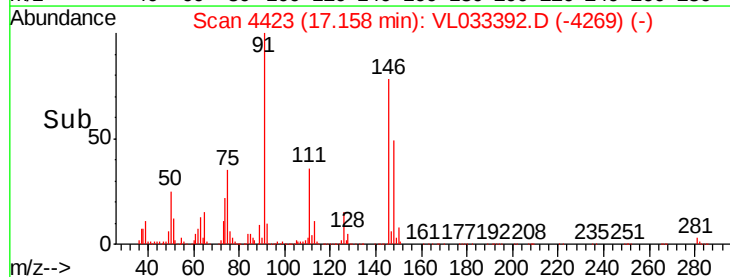
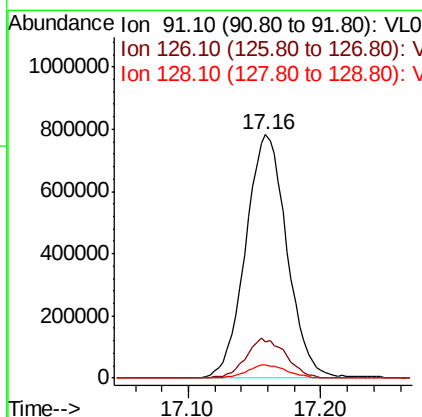
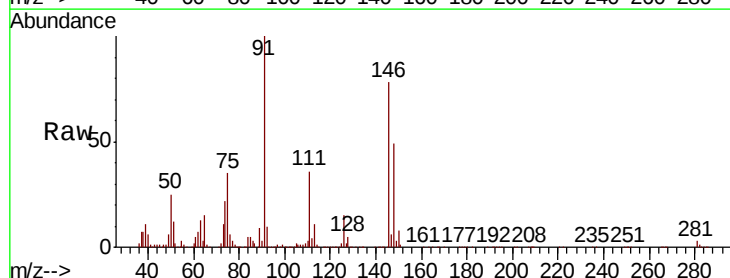
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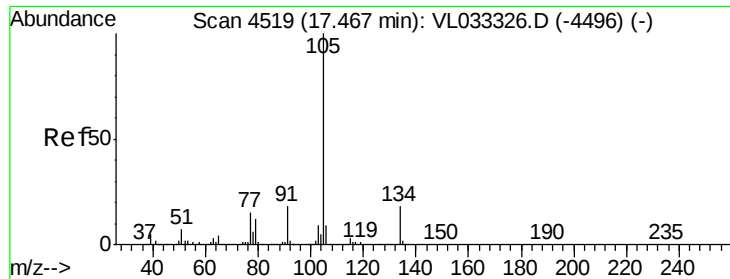
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#66
Benzyl Chloride
Concen: 12.924 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL033392.D
Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.1	13.2	19.8
128	5.4	4.2	6.4





#67

sec-Butylbenzene

Concen: 10.670 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion:105 Resp: 4770109

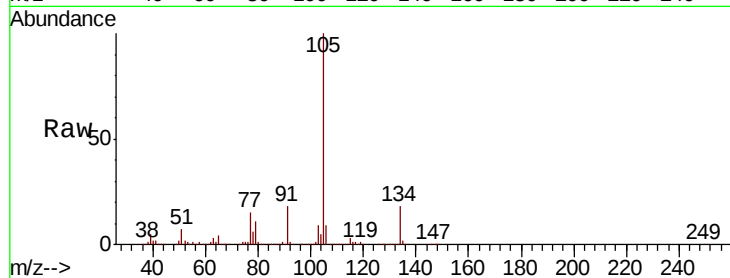
Ion Ratio Lower Upper

105 100

134 18.0 14.2 21.4

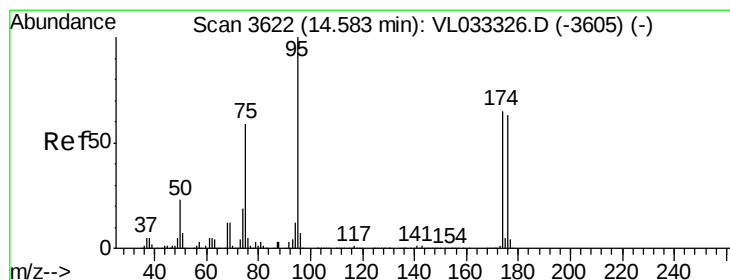
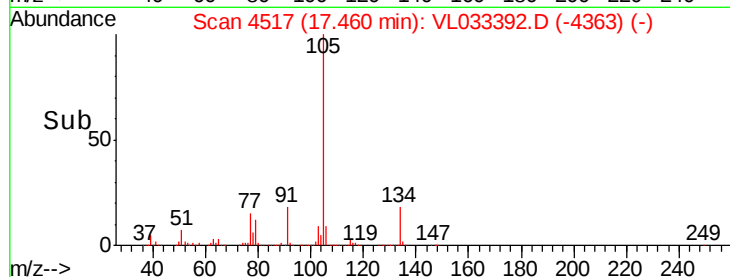
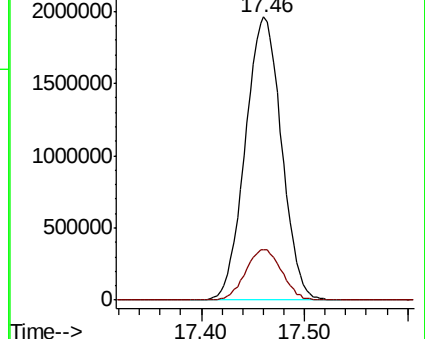
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.429 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

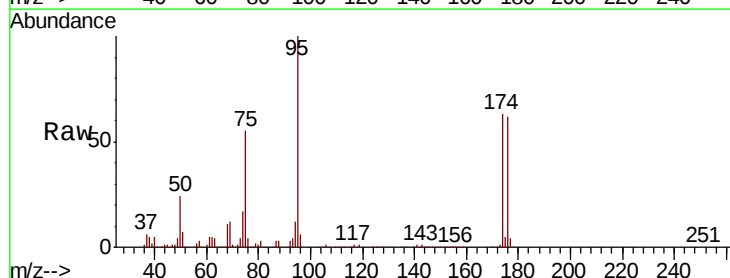
Tgt Ion: 95 Resp: 1484974

Ion Ratio Lower Upper

95 100

174 64.8 51.5 77.3

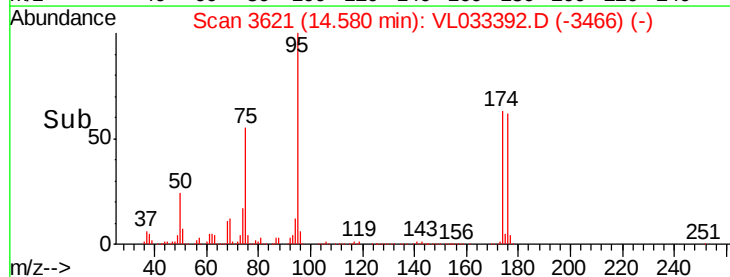
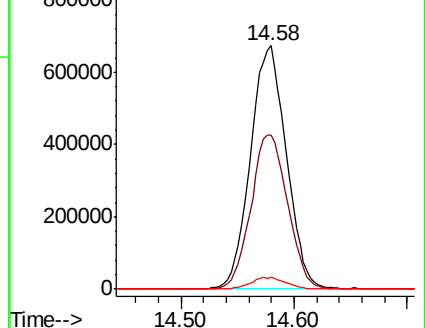
175 4.8 3.8 5.6

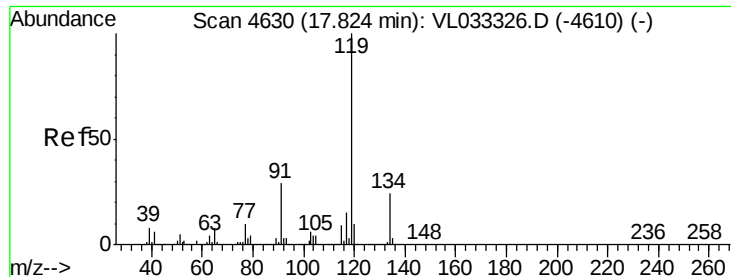


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





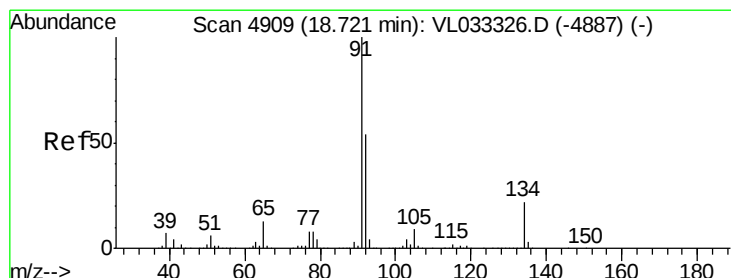
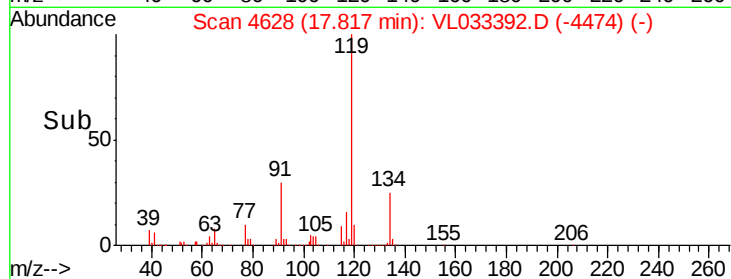
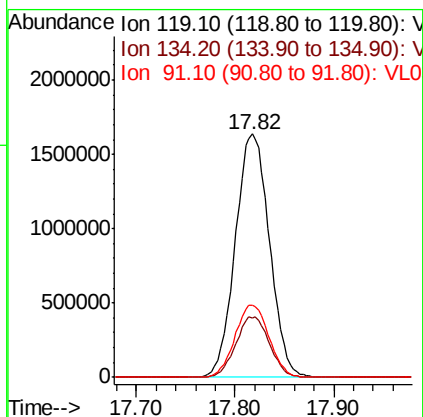
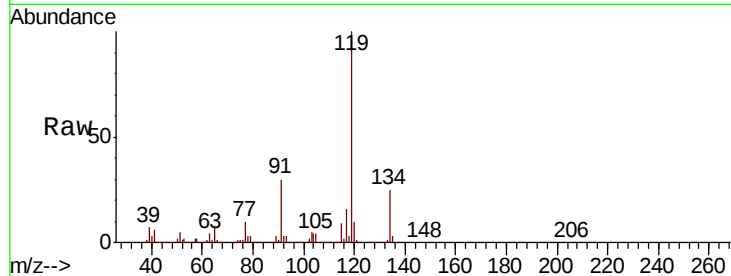
#69
 p-Isopropyltoluene
 Concen: 10.746 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.6	19.8	29.6
91	29.6	23.4	35.2

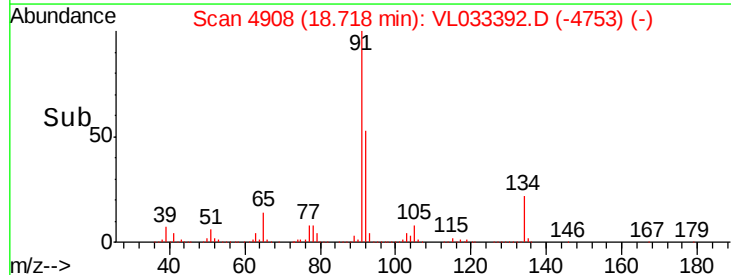
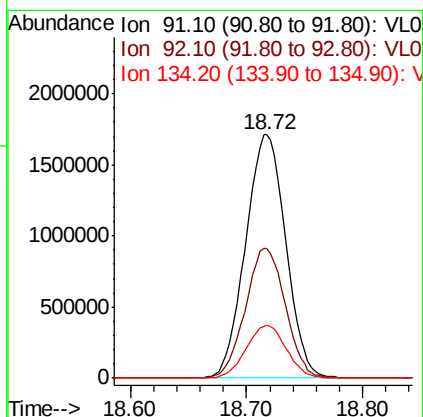
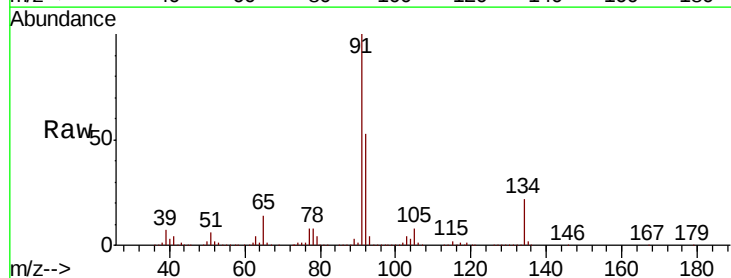
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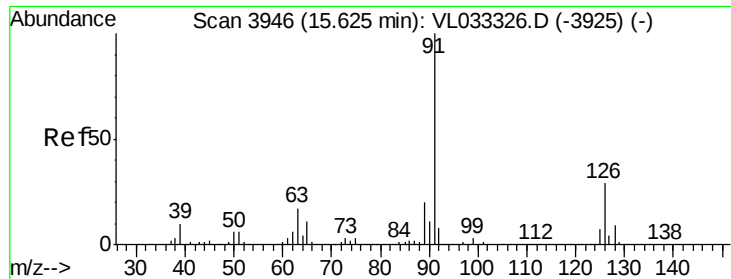
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#70
 n-Butylbenzene
 Concen: 10.593 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.8	64.2
134	21.7	17.4	26.0





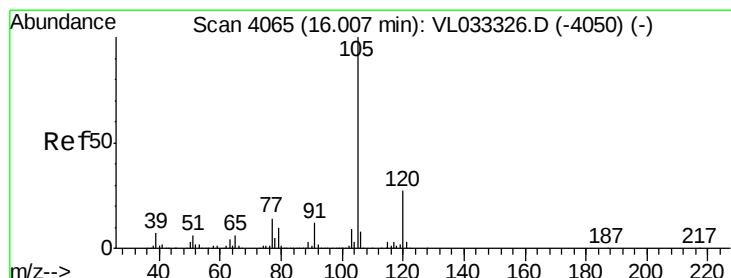
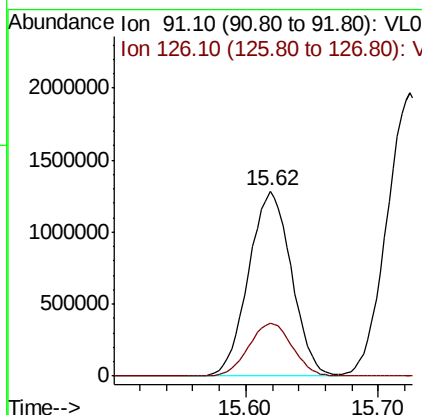
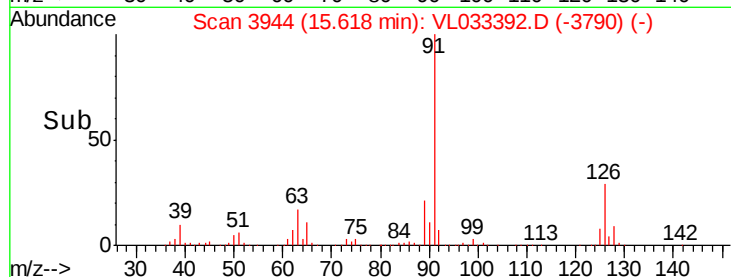
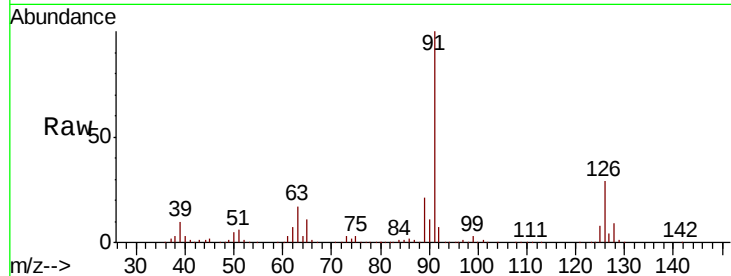
#71
 2-Chlorotoluene
 Concen: 10.622 ppbv
 RT: 15.62 min Scan# 3944
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion: 91 Resp: 2897365
 Ion Ratio Lower Upper
 91 100
 126 29.2 11.6 46.6

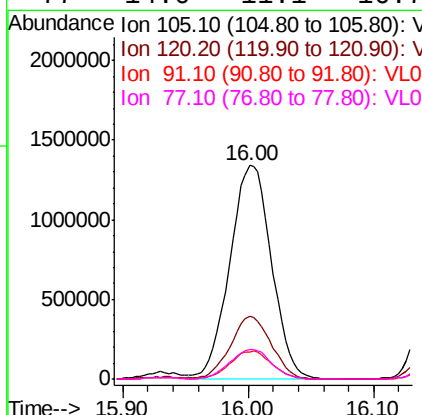
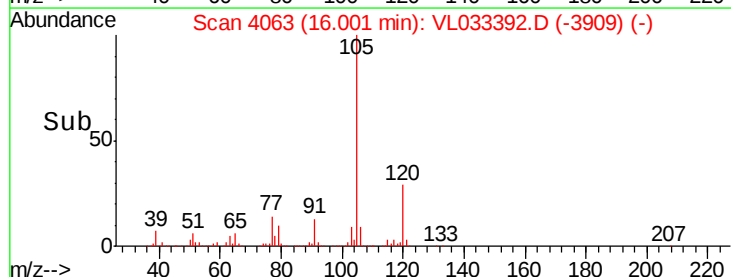
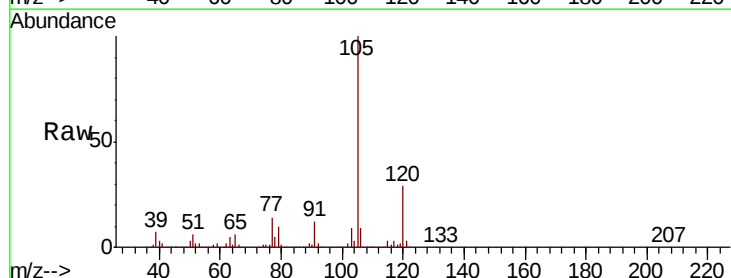
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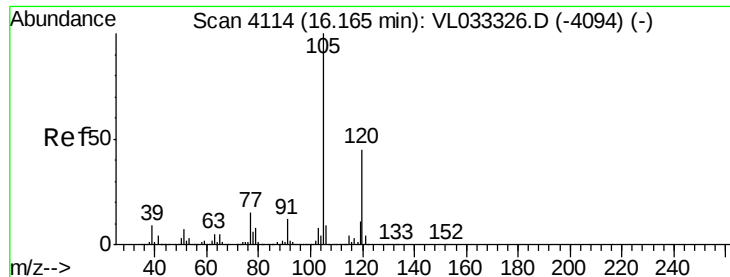
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#72
 4-Ethyltoluene
 Concen: 10.794 ppbv
 RT: 16.00 min Scan# 4063
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion: 105 Resp: 3089645
 Ion Ratio Lower Upper
 105 100
 120 28.8 22.9 34.3
 91 13.0 10.2 15.2
 77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.619 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampled :

VL0320ABS01

Tot Ion:105 Resp: 2961101

Ion Ratio Lower Upper

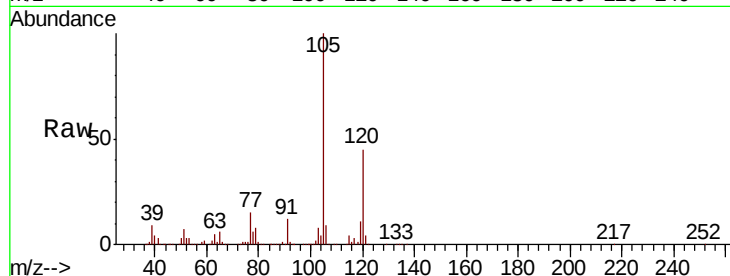
105 100

120 44.7 36.2 54.4

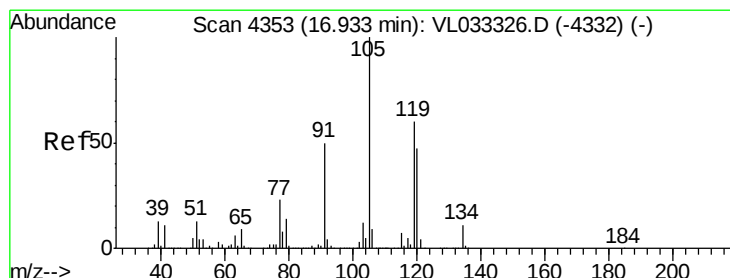
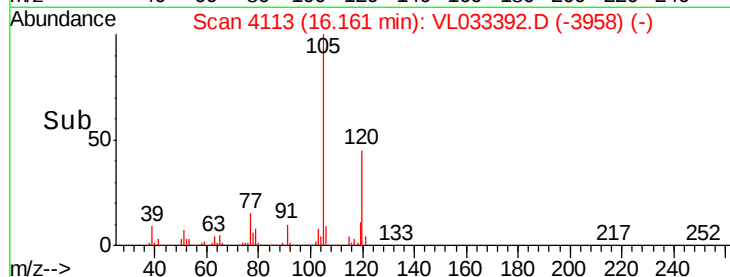
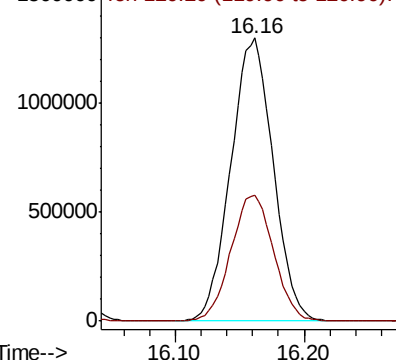
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.595 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Tgt Ion:105 Resp: 3129057

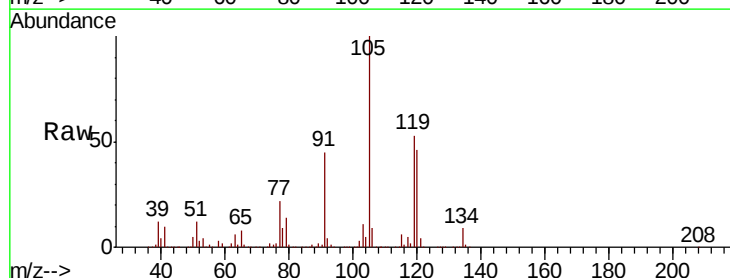
Ion Ratio Lower Upper

105 100

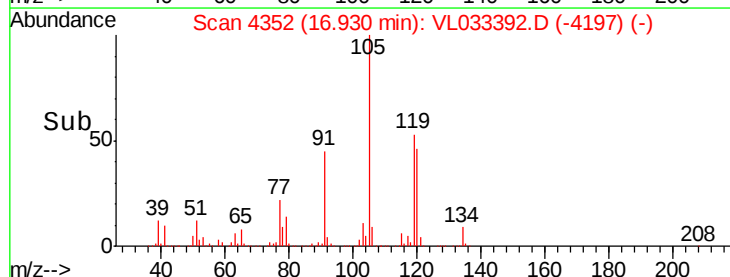
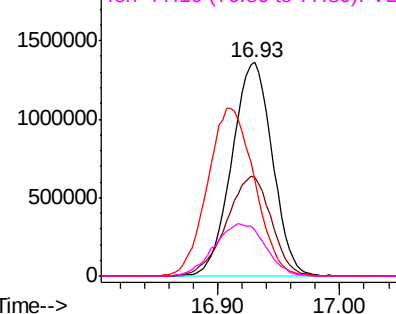
120 46.0 37.4 56.2

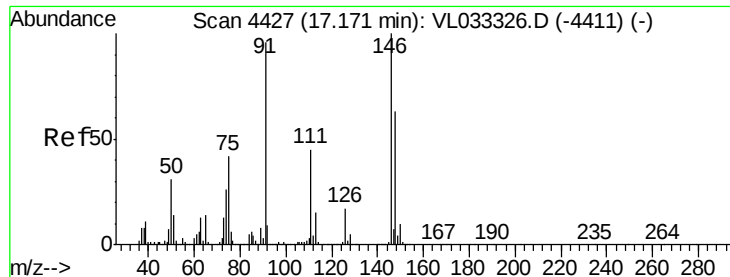
91 44.8 41.0 61.4

77 21.5 18.5 27.7



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): VLO
Ion 77.10 (76.80 to 77.80): VLO





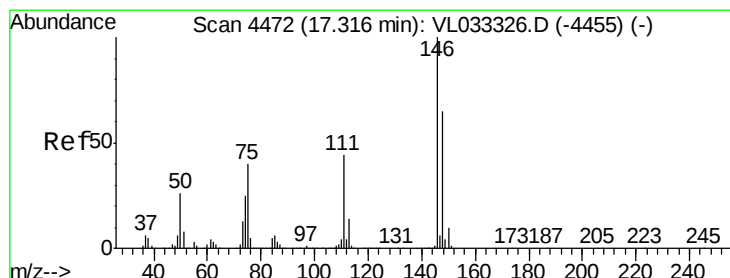
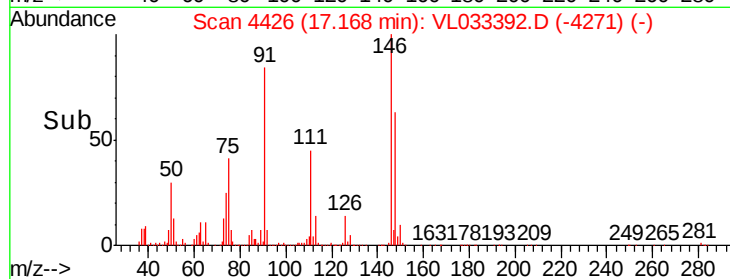
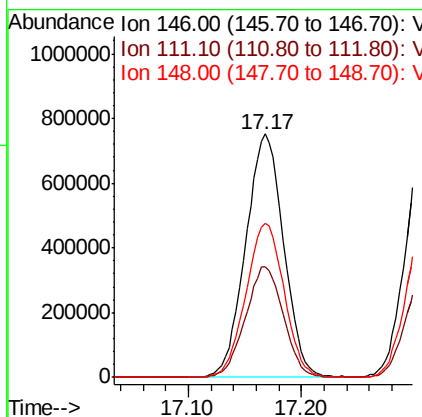
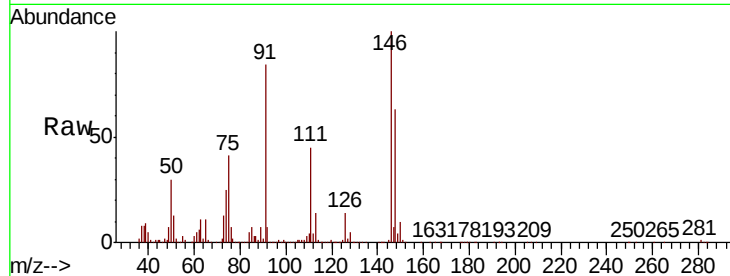
#75
 1,3-Dichlorobenzene
 Concen: 10.073 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.8	68.3
148	63.8	31.9	95.7

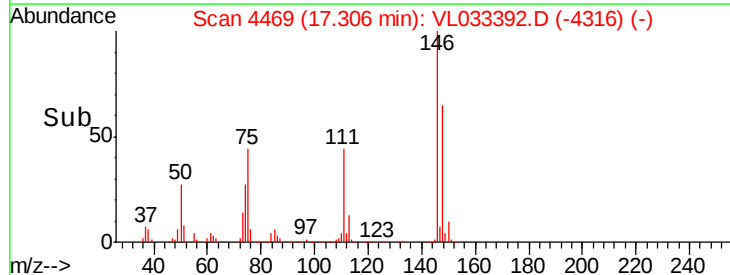
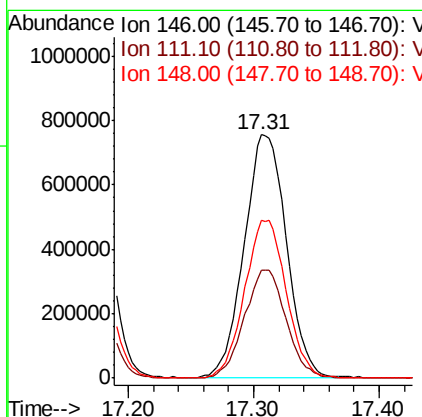
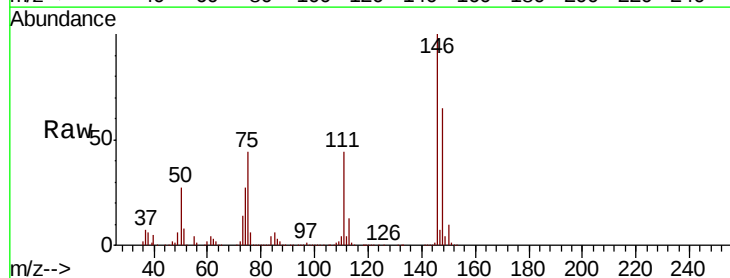
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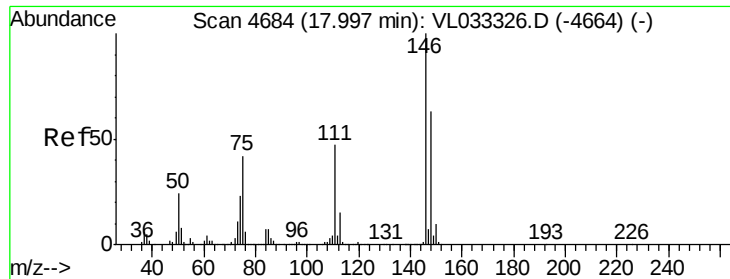
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#76
 1,4-Dichlorobenzene
 Concen: 10.482 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.7
148	63.9	32.1	96.5





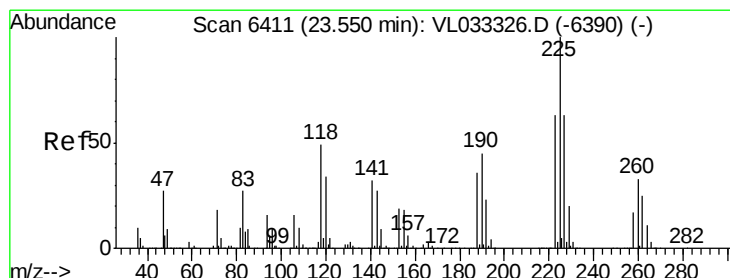
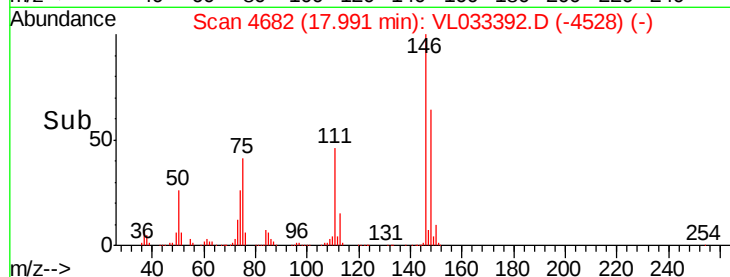
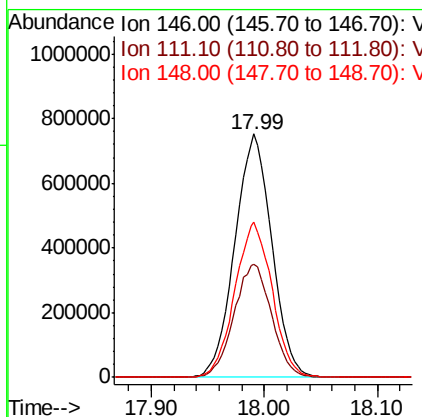
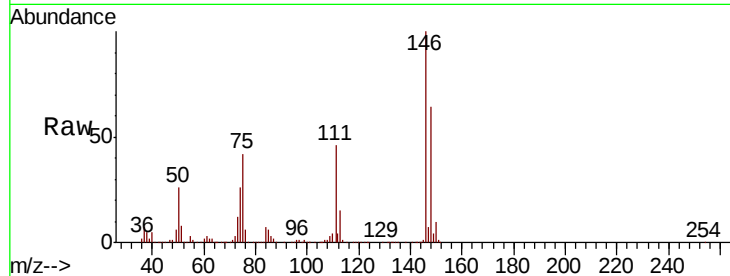
#77
 1,2-Dichlorobenzene
 Concen: 10.375 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	23.5	70.6
148	64.2	31.9	95.9

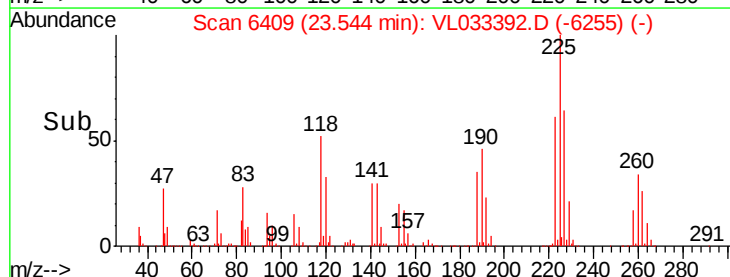
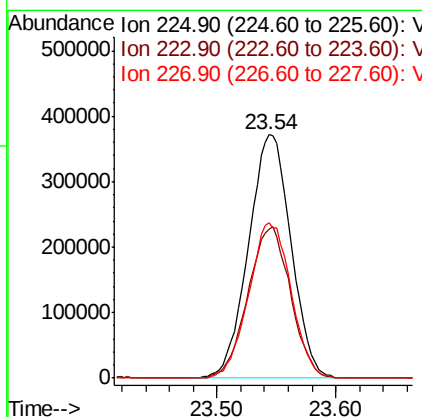
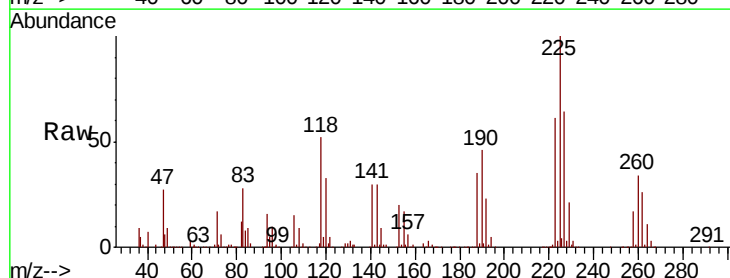
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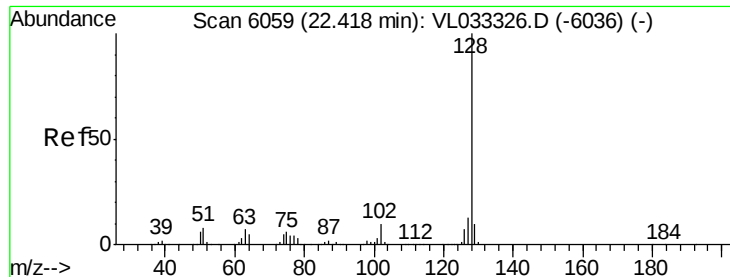
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.274 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.01 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.4	75.6
227	63.5	50.5	75.7





#79

Naphthalene

Concen: 9.962 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0320ABS01

Tot Ion:128 Resp: 2835193

Ion Ratio Lower Upper

128 100

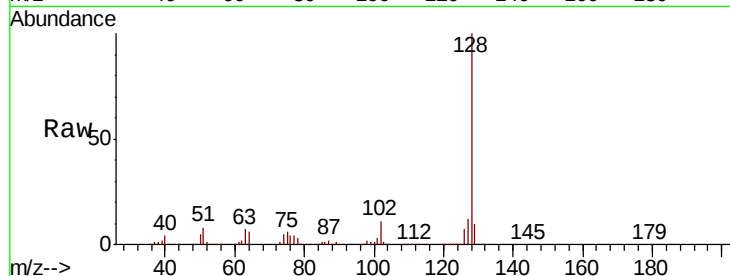
127 12.4 10.1 15.1

129 10.3 8.2 12.2

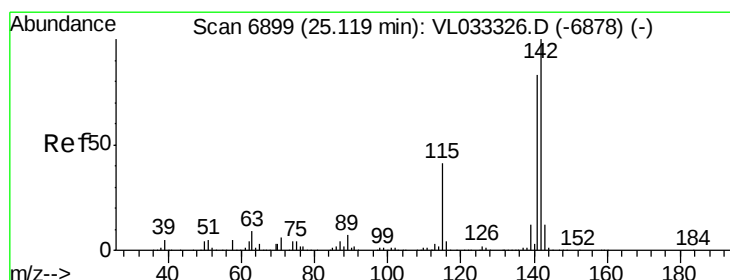
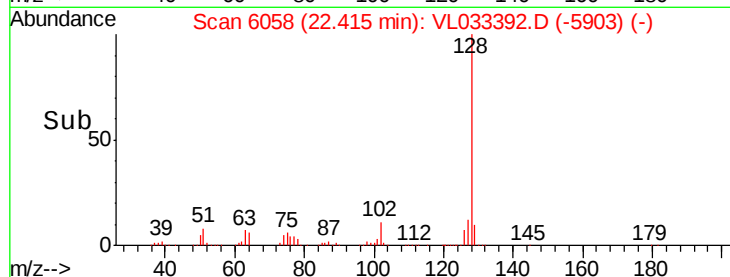
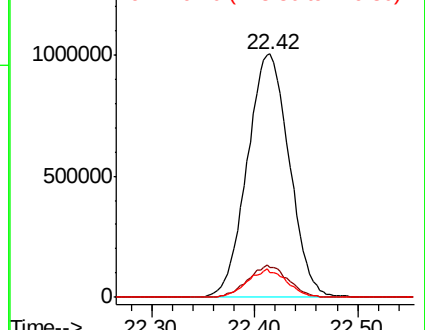
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.306 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033392.D

Acq: 20 Mar 2019 16:33

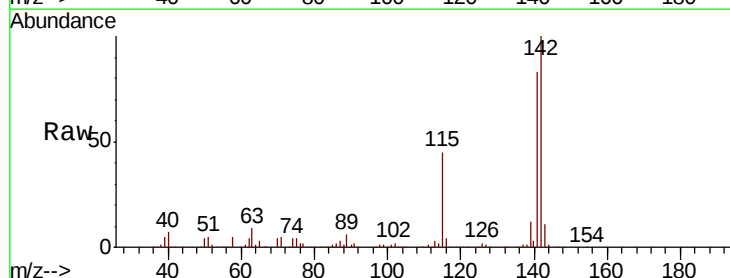
Tgt Ion:142 Resp: 1120921

Ion Ratio Lower Upper

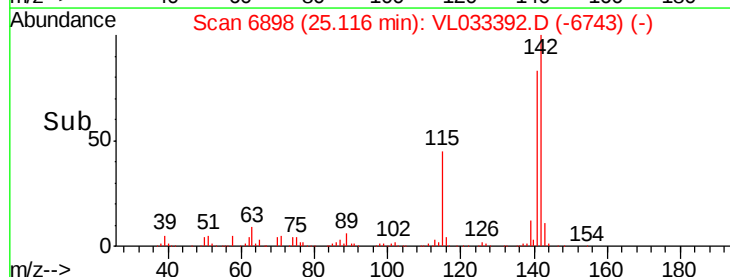
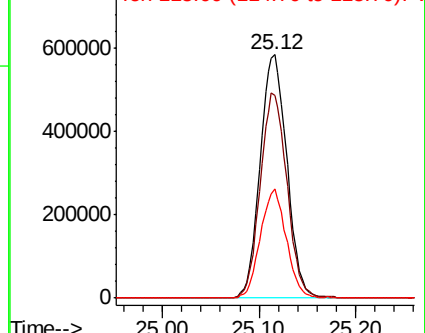
142 100

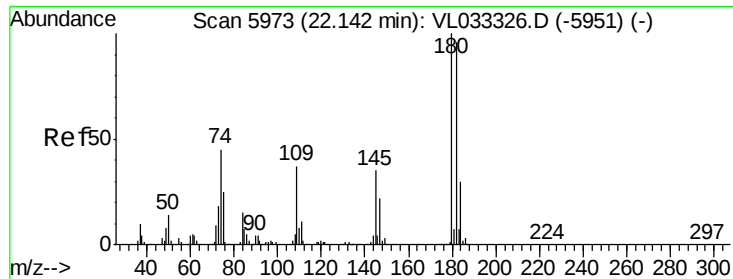
141 85.0 67.1 100.7

115 43.7 33.8 50.6



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: 10.251 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033392.D
 Acq: 20 Mar 2019 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.1	114.1
184	30.7	24.6	37.0

Manual Integrations
 APPROVED

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