

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033265.D
 Acq On : 8 Mar 2019 19:35
 Operator : SY/AP
 Sample : VL0308ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:23 AM

Quant Time: Mar 09 04:58:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Mar 09 04:58:03 2019
 QLast Update : Sat Mar 09 03:32:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1039546	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2379348	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2508711m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1987117	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2061689	10.491	ppbv	100
3) Chlorodifluoromethane	3.02	51	1232012	10.450	ppbv	100
4) Chloromethane	3.17	50	648685	10.560	ppbv	91
5) Vinyl Chloride	3.29	62	637500	10.350	ppbv	97
6) Bromomethane	3.52	94	400407	10.570	ppbv	95
7) Chloroethane	3.60	64	227293	10.206	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1551513	10.101	ppbv	99
9) Propene	3.04	41	549640	10.566	ppbv	98
10) Heptane	8.25	43	1314144	9.251	ppbv	100
11) Trichlorofluoromethane	4.00	101	1717154	10.003	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1092222	9.683	ppbv	100
13) Ethanol	3.65	45	109714	7.288	ppbv	99
14) Bromoethene	3.79	108	474776	10.253	ppbv	99
15) Acetone	3.90	43	1187004	9.622	ppbv	98
16) 1,3-Butadiene	3.36	39	574807	11.233	ppbv	98
17) tert-Butyl alcohol	4.36	59	179929	8.944	ppbv	99
18) 1,1-Dichloroethene	4.35	96	492896	9.980	ppbv	97
19) Isopropyl Alcohol	4.02	45	646797	8.732	ppbv #	99
20) Methylene Chloride	4.41	84	421535	8.325	ppbv	95
21) Allyl Chloride	4.48	41	777160	10.490	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	503099	9.933	ppbv	96
23) Vinyl Acetate	5.16	43	1832959	10.372	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1253521	9.662	ppbv	99
25) Ethyl Acetate	5.77	43	2159189	9.164	ppbv	100
26) Hexane	5.78	57	960688	8.654	ppbv	99
27) Carbon Disulfide	4.62	76	1246827	11.091	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1440260	10.099	ppbv	100
29) Chloroform	5.85	83	1598885	9.438	ppbv	100
30) Cyclohexane	7.25	84	422267	4.913	ppbv #	3
31) cis-1,2-Dichloroethene	5.64	61	1019387	9.695	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1595522	9.973	ppbv	99
34) 2-Butanone	5.33	43	1473249	10.242	ppbv	99
35) Carbon Tetrachloride	7.14	117	1640864	10.160	ppbv	93
36) Benzene	7.01	78	2018418	9.854	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1251259	9.487	ppbv	100
38) Trichloroethene	7.96	130	749719	9.432	ppbv	98
39) 1,2-Dichloropropane	7.74	63	775805	9.646	ppbv	98
40) 1,4-Dioxane	7.96	88	257364	8.682	ppbv	88
41) Tetrahydrofuran	6.15	42	836535	10.293	ppbv	99
42) Bromodichloromethane	7.92	83	1790651	9.967	ppbv	99
43) Methyl Methacrylate	8.14	69	845052	10.254	ppbv	100

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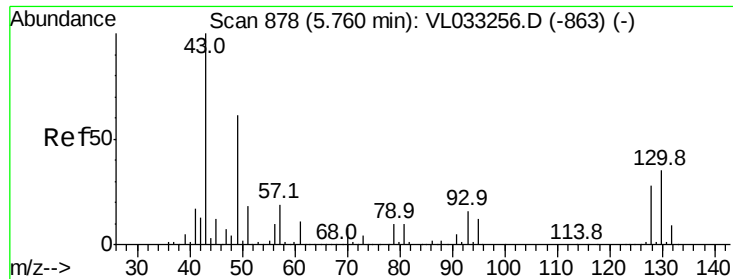
Manual Integrations
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 3/11/2019 10:10:23 AM

Quant Time: Mar 09 04:58:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Mar 09 04:58:03 2019
 QLast Update : Sat Mar 09 03:32:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3426551	9.413	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1135742	11.379	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1280276	10.899	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	846844	9.811	ppbv	97
48) Dibromochloromethane	10.45	129	1518597	10.731	ppbv	99
49) Bromoform	13.20	173	1314070	10.434	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2130742	9.790	ppbv	100
51) 2-Hexanone	10.27	43	1732396	10.678	ppbv #	99
52) Tetrachloroethene	11.37	164	740318	9.700	ppbv	98
53) Toluene	9.95	91	2446084	10.426	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1351910	9.999	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1037080	9.875	ppbv	99
57) Chlorobenzene	12.31	112	1759670	9.565	ppbv	99
58) Ethyl Benzene	12.87	91	3343305	9.849	ppbv	97
59) m/p-Xylene	13.15	91	5551741m	18.067	ppbv	
60) o-Xylene	13.85	91	2697790	9.067	ppbv	99
61) Styrene	13.69	104	2010309	9.931	ppbv	100
62) Isopropylbenzene	14.83	105	3800885	9.566	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1832303	9.574	ppbv	100
64) n-propylbenzene	15.72	120	958835	9.869	ppbv	99
65) tert-Butylbenzene	16.91	119	3247849	9.719	ppbv	100
66) Benzyl Chloride	17.16	91	1669759	13.336	ppbv	100
67) sec-Butylbenzene	17.46	105	4635369	9.757	ppbv	99
69) p-Isopropyltoluene	17.82	119	3812812	9.888	ppbv	99
70) n-Butylbenzene	18.71	91	4094345	9.797	ppbv	100
71) 2-Chlorotoluene	15.62	91	2946660	9.912	ppbv	99
72) 4-Ethyltoluene	16.00	105	3116527	10.060	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2971409	10.067	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	2991486	9.739	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	1691327	9.318	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1701930	9.575	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1664383	9.525	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	946743	7.152	ppbv	99
79) Naphthalene	22.41	128	3252430	9.711	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1700619	20.749	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1531207	8.865	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 49 Resp: 1039546

Ion Ratio Lower Upper

49 100

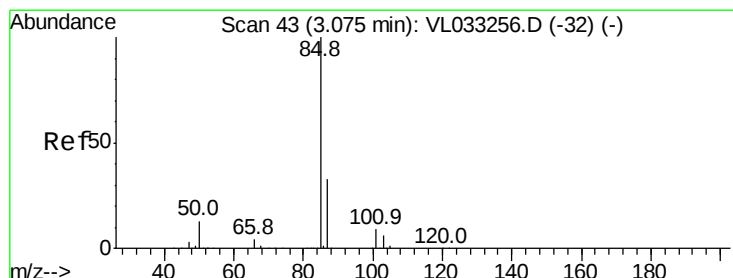
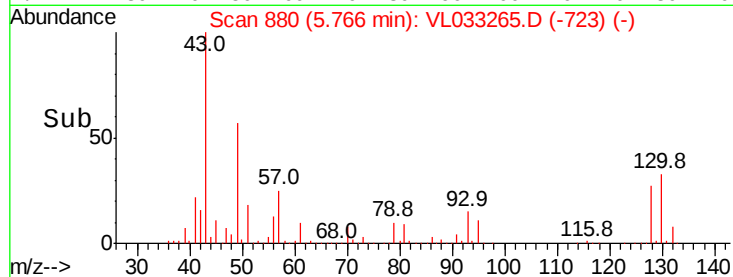
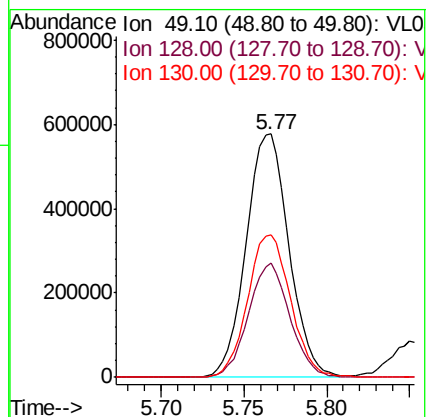
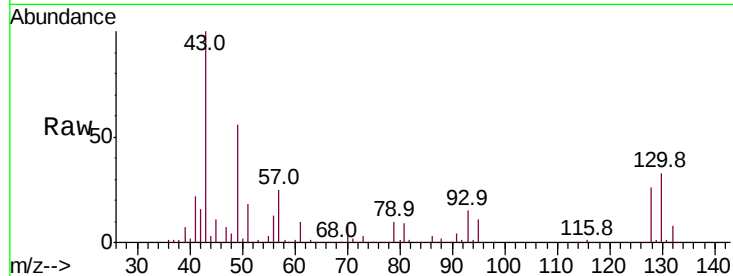
128 45.5 22.5 67.5

130 58.9 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 10.491 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033265.D

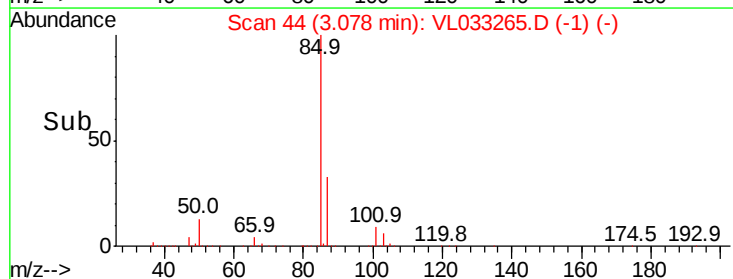
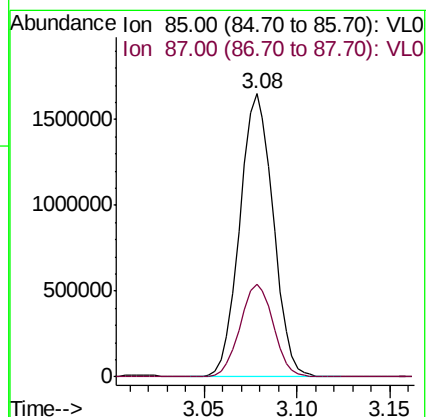
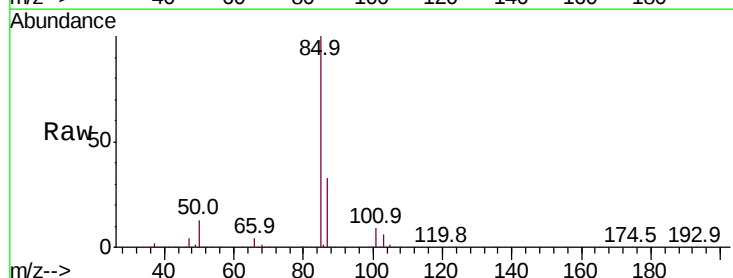
Acq: 8 Mar 2019 19:35

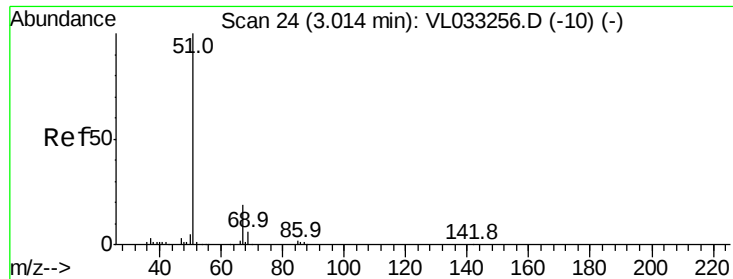
Tgt Ion: 85 Resp: 2061689

Ion Ratio Lower Upper

85 100

87 32.9 26.2 39.4





#3

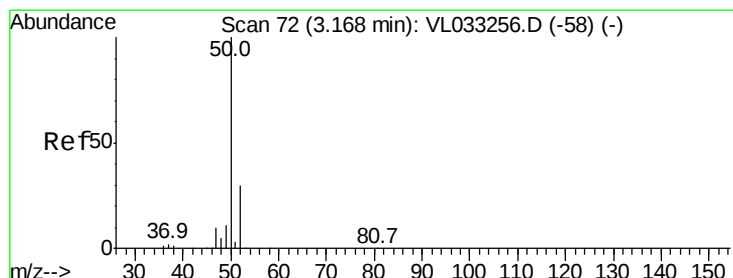
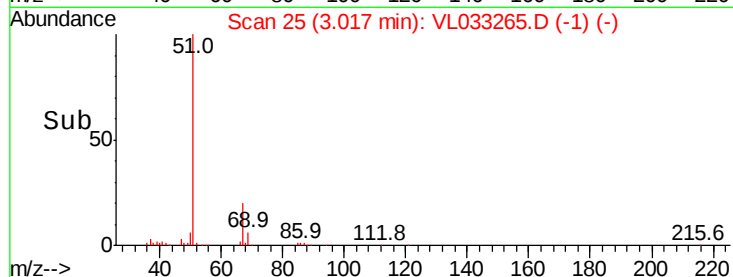
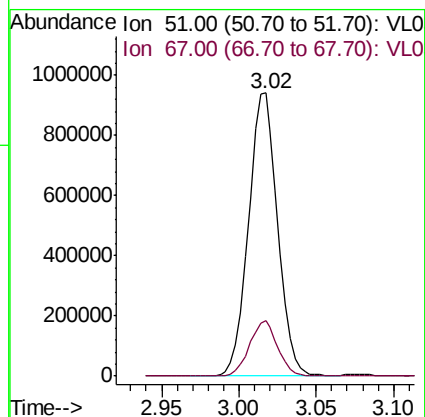
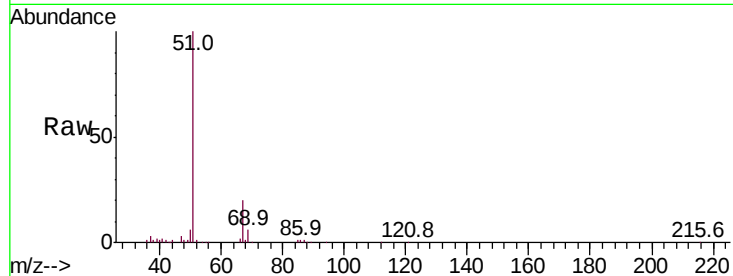
Chlorodifluoromethane
 Concen: 10.450 ppbv
 RT: 3.02 min Scan# 25
 Delta R.T. 0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Tot Ion: 51 Resp: 1232012
 Ion Ratio Lower Upper
 51 100
 67 18.9 15.0 22.6

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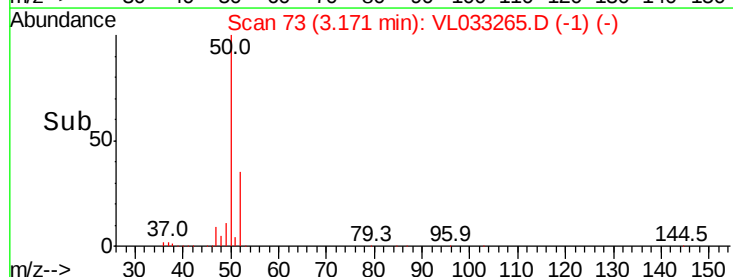
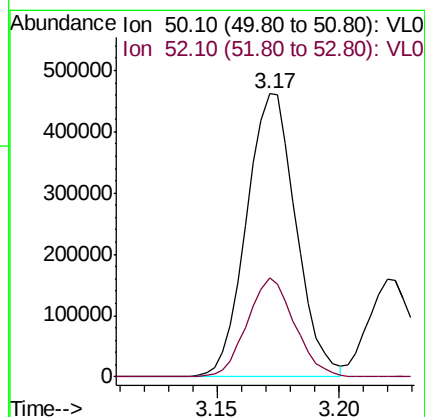
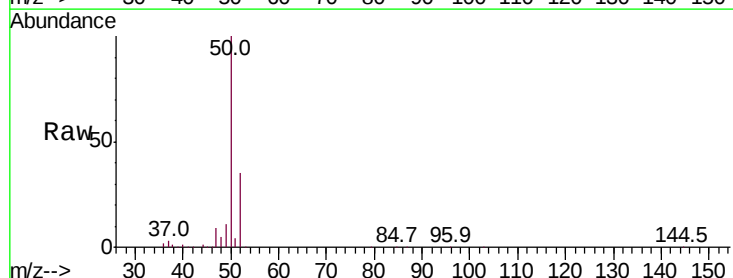
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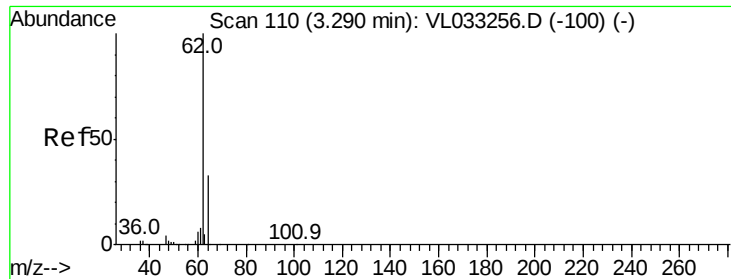


#4

Chloromethane
 Concen: 10.560 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Tgt Ion: 50 Resp: 648685
 Ion Ratio Lower Upper
 50 100
 52 35.0 24.2 36.2





#5

Vinyl Chloride

Concen: 10.350 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleID :

VL0308ABS01

Tot Ion: 62 Resp: 637500

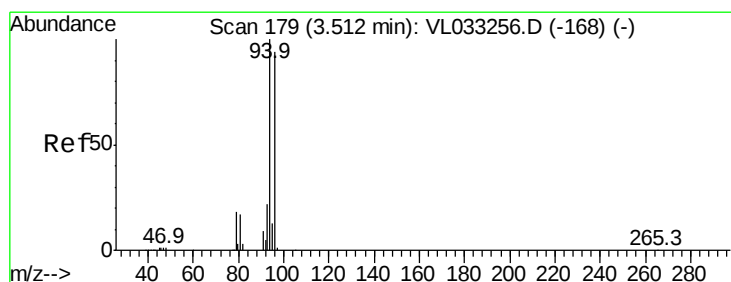
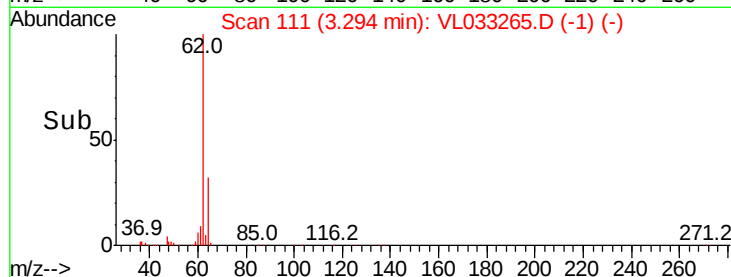
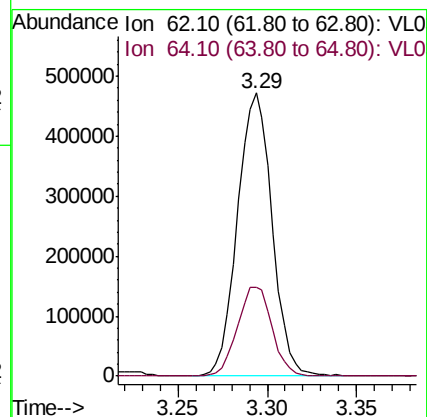
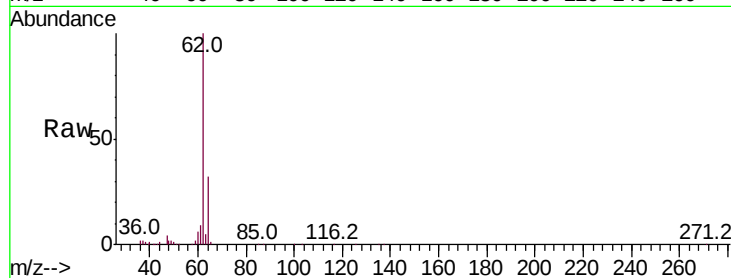
Ion Ratio Lower Upper

62 100

64 31.6 26.4 39.6

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3/11/2019 10:10:23 AM



#6

Bromomethane

Concen: 10.570 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033265.D

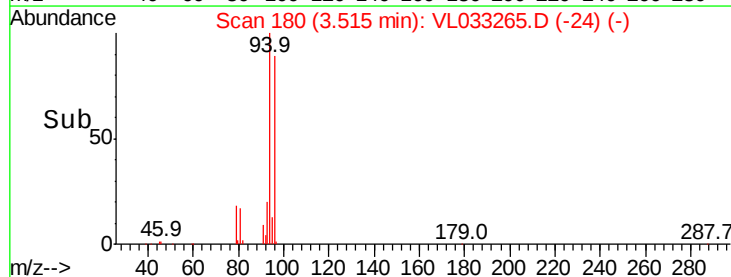
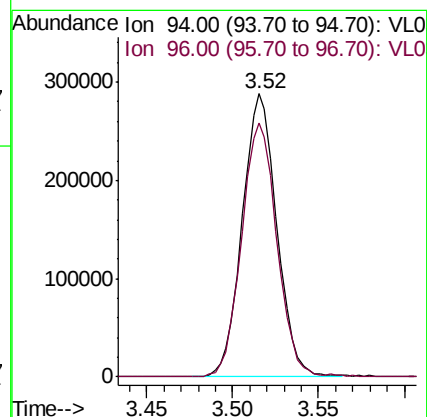
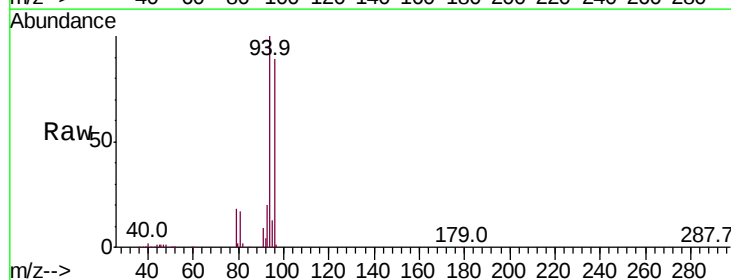
Acq: 8 Mar 2019 19:35

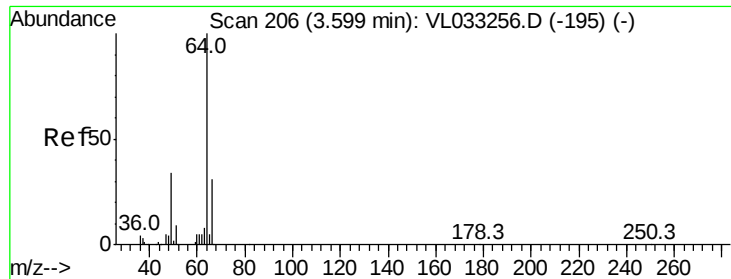
Tgt Ion: 94 Resp: 400407

Ion Ratio Lower Upper

94 100

96 89.5 75.3 112.9





#7

Chloroethane

Concen: 10.206 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 64 Resp: 227293

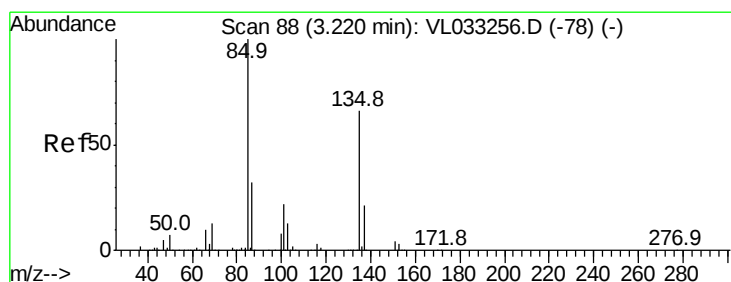
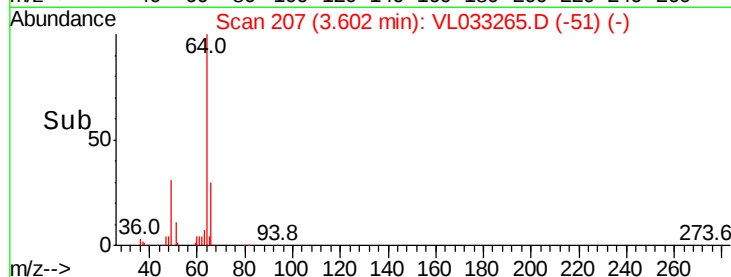
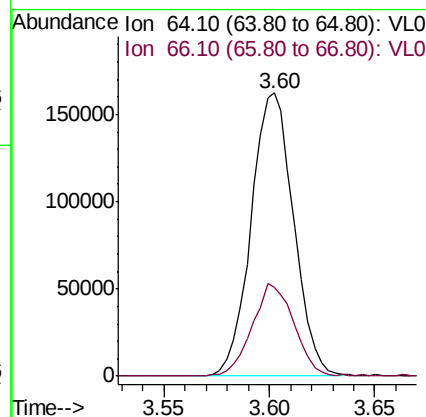
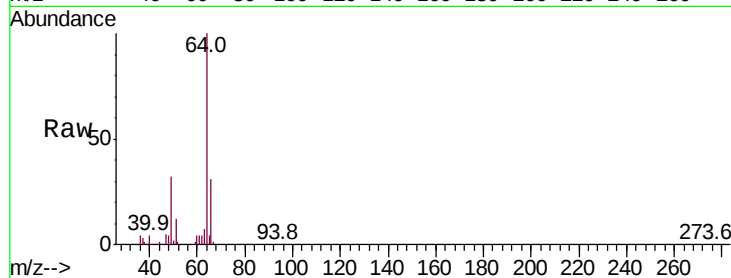
Ion Ratio Lower Upper

64 100

66 31.5 25.2 37.8

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#8

Dichlorotetrafluoroethane

Concen: 10.101 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033265.D

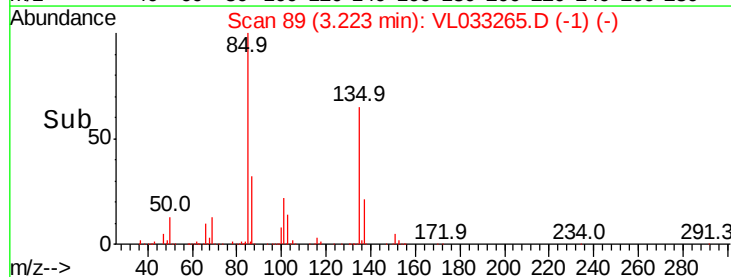
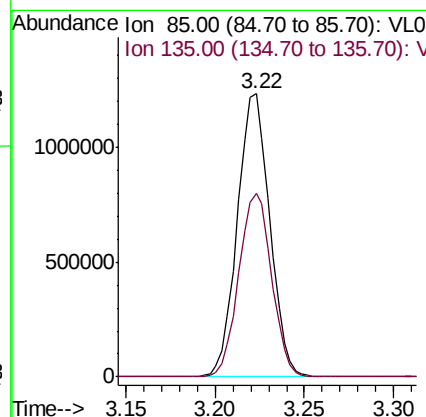
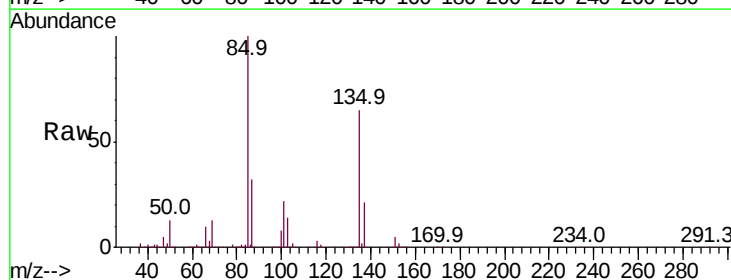
Acq: 8 Mar 2019 19:35

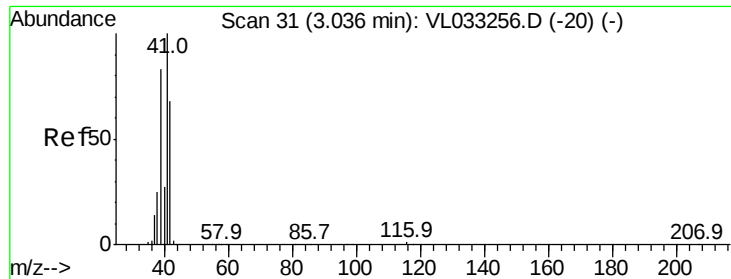
Tgt Ion: 85 Resp: 1551513

Ion Ratio Lower Upper

85 100

135 65.9 52.3 78.5





#9

Propene

Concen: 10.566 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 41 Resp: 549640

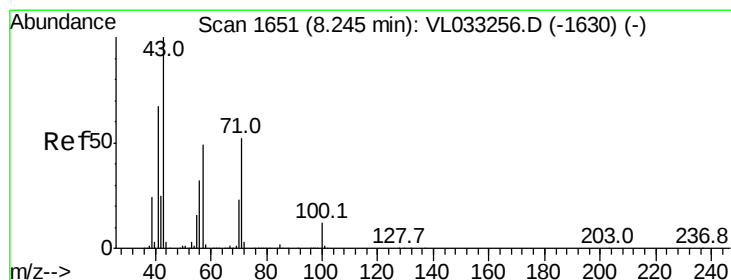
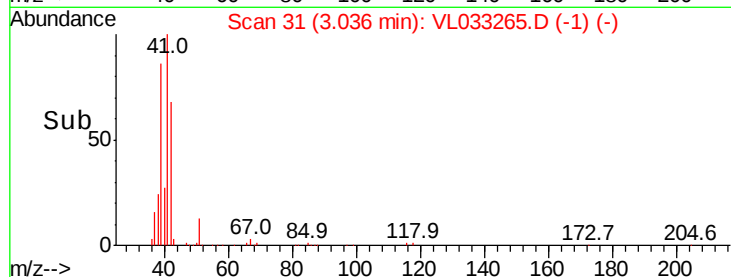
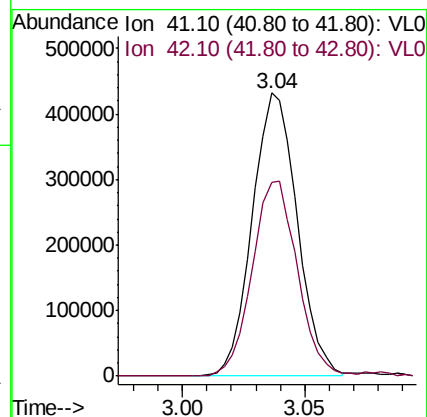
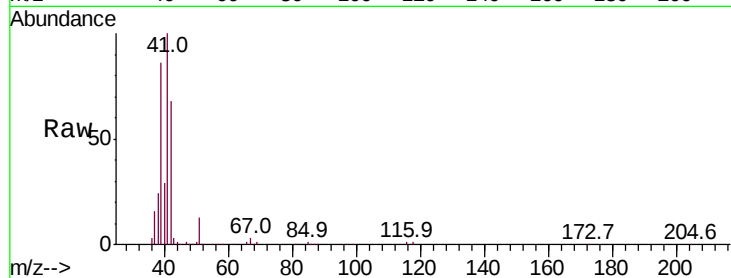
Ion Ratio Lower Upper

41 100

42 70.6 55.2 82.8

Manual Integrations
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3/11/2019 10:10:23 AM



#10

Heptane

Concen: 9.251 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033265.D

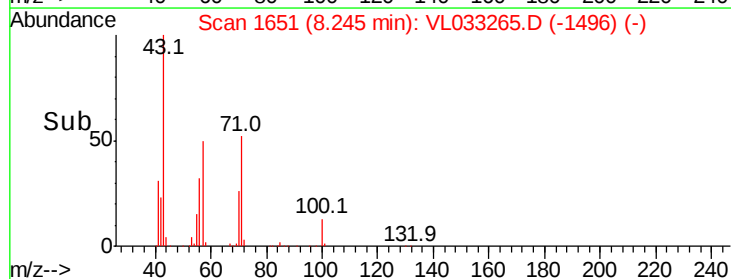
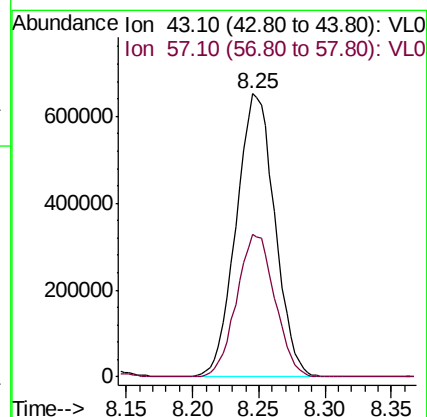
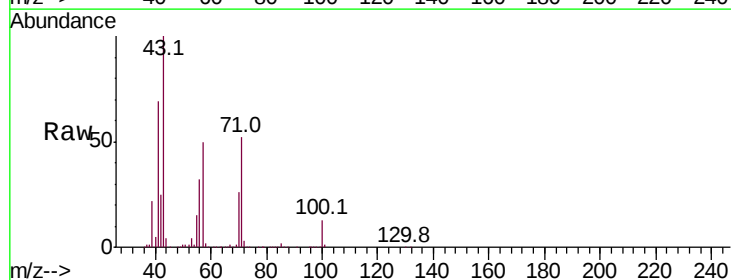
Acq: 8 Mar 2019 19:35

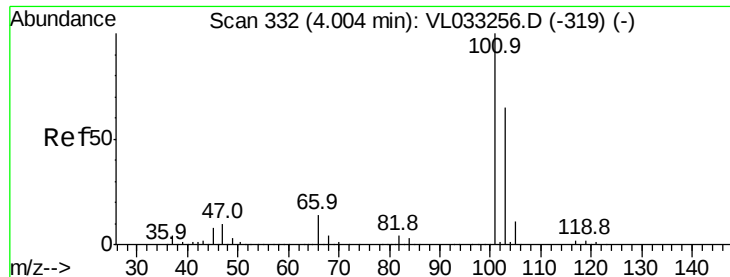
Tgt Ion: 43 Resp: 1314144

Ion Ratio Lower Upper

43 100

57 49.8 40.0 60.0





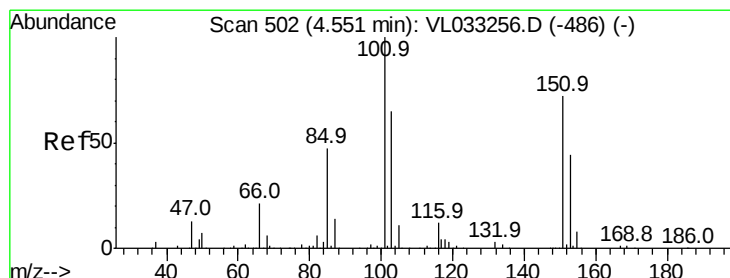
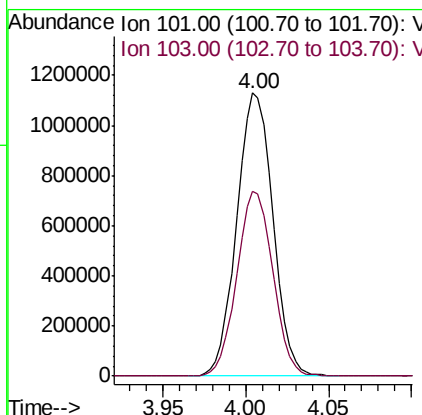
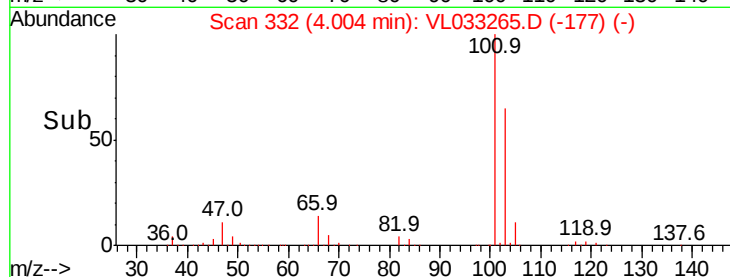
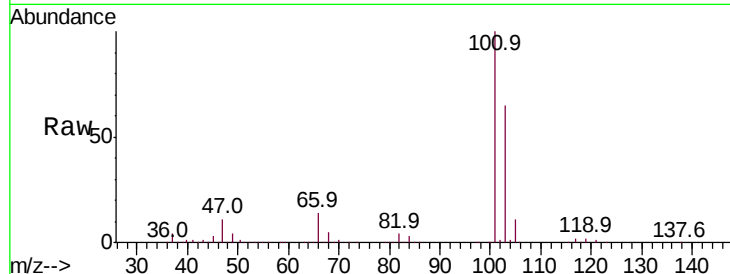
#11
 Trichlorofluoromethane
 Concen: 10.003 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Tot Ion:101 Resp: 1717154
 Ion Ratio Lower Upper
 101 100
 103 65.2 51.9 77.9

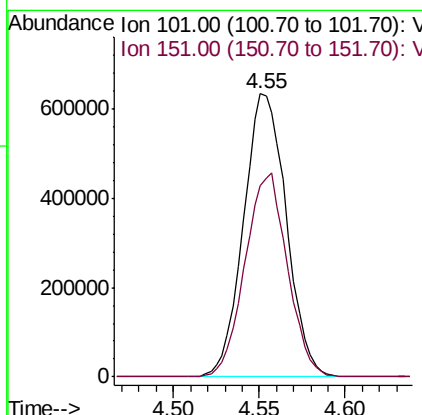
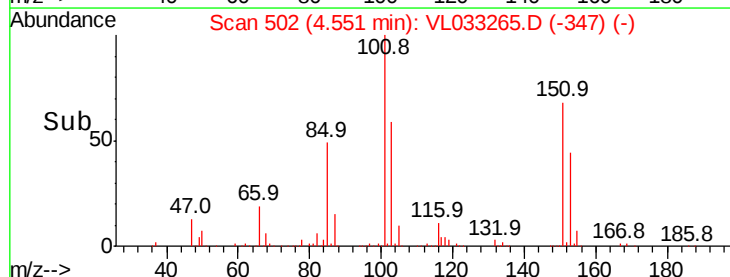
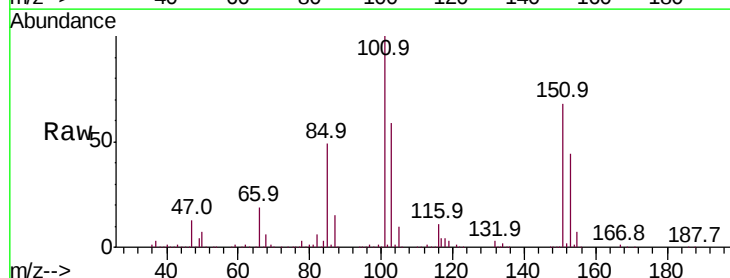
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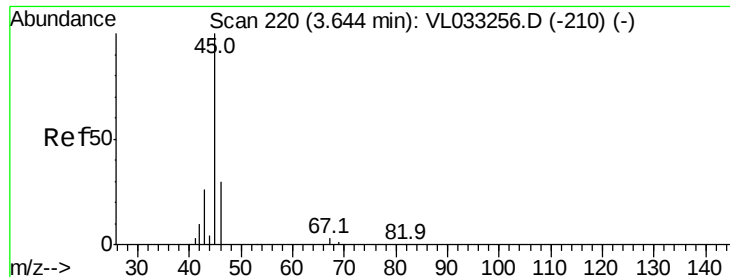
MMDadoda
 3/11/2019 10:10:23 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.683 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Tgt Ion:101 Resp: 1092222
 Ion Ratio Lower Upper
 101 100
 151 71.4 57.2 85.8





#13

Ethanol

Concen: 7.288 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 45 Resp: 109714

Ion Ratio Lower Upper

45 100

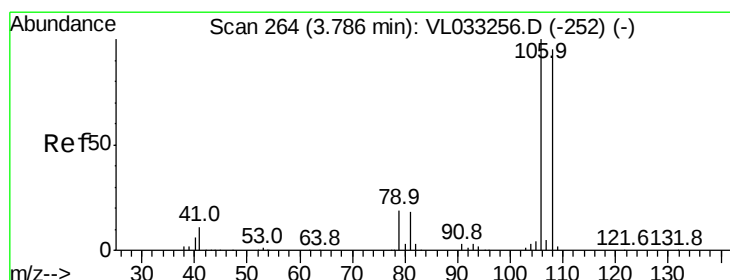
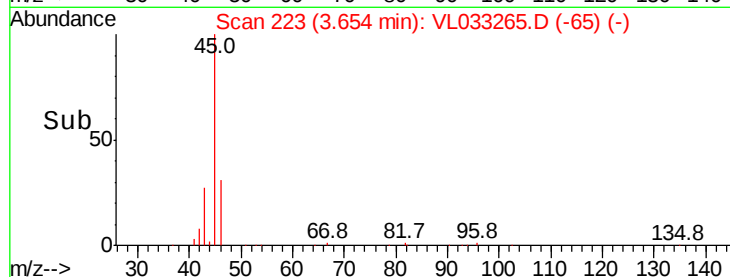
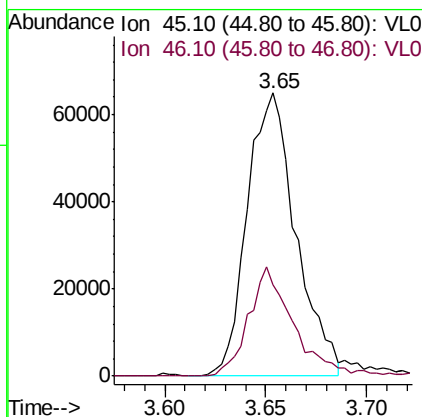
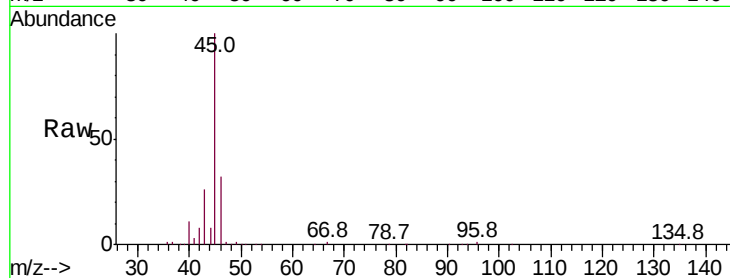
46 36.6 14.9 59.7

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3/11/2019 10:10:23 AM



#14

Bromoethene

Concen: 10.253 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

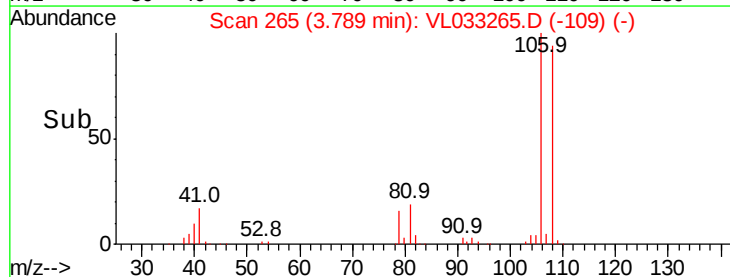
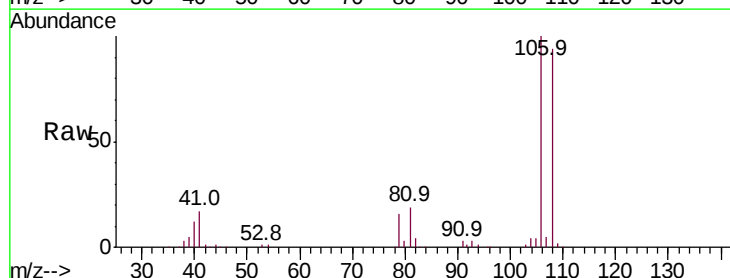
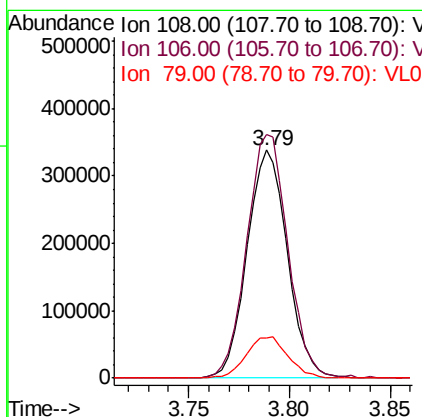
Tgt Ion: 108 Resp: 474776

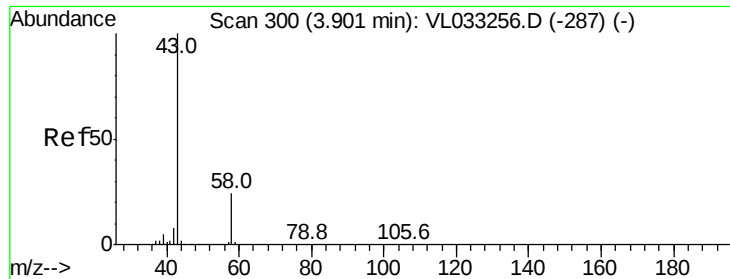
Ion Ratio Lower Upper

108 100

106 109.5 86.9 130.3

79 19.0 15.8 23.6





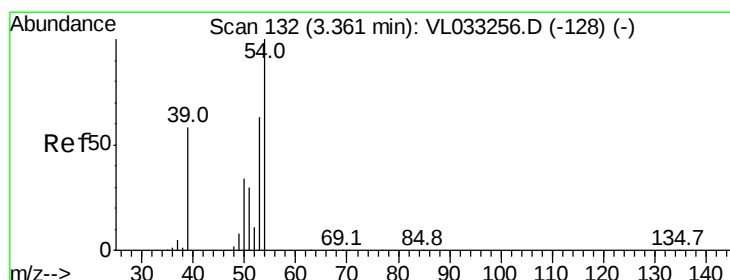
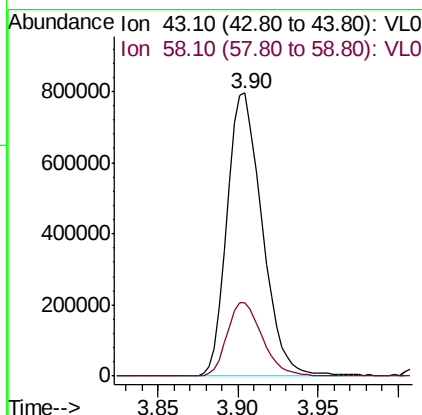
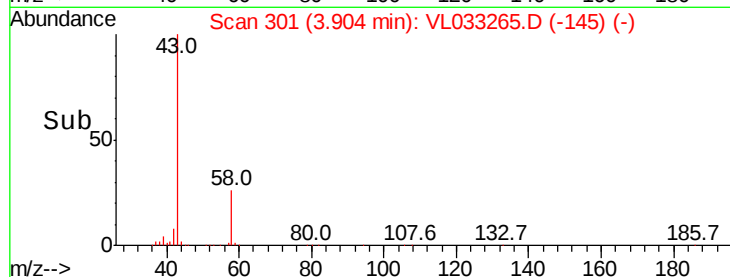
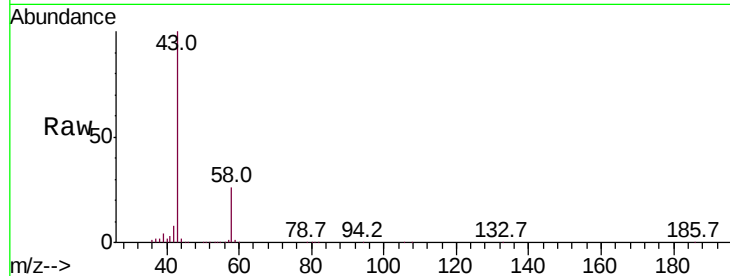
#15
Acetone
Concen: 9.622 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion: 43 Resp: 1187004
Ion Ratio Lower Upper
43 100
58 26.2 20.2 30.2

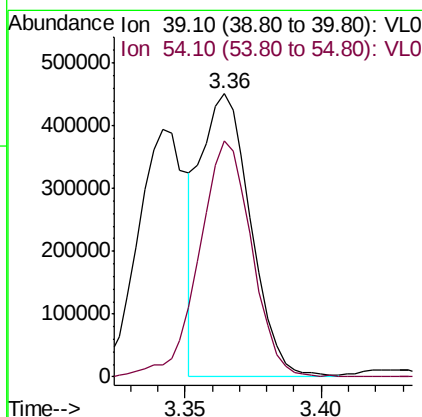
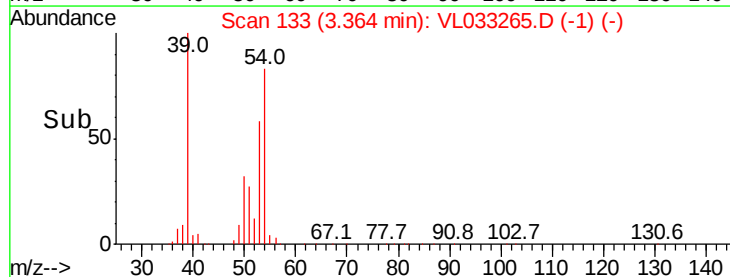
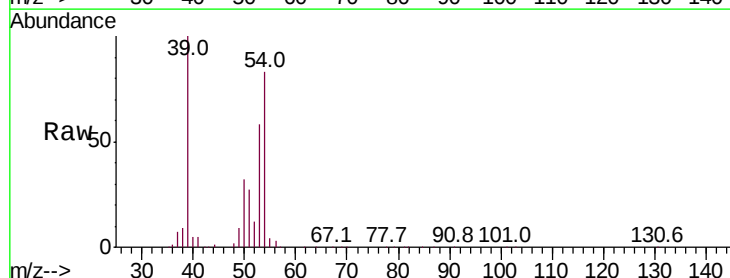
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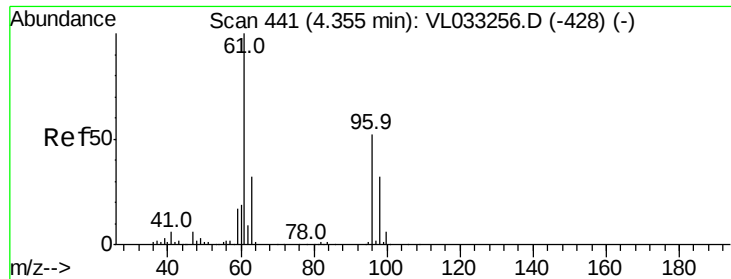
MMDadoda
3/11/2019 10:10:23 AM



#16
1,3-Butadiene
Concen: 11.233 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion: 39 Resp: 574807
Ion Ratio Lower Upper
39 100
54 87.6 68.6 103.0





#17

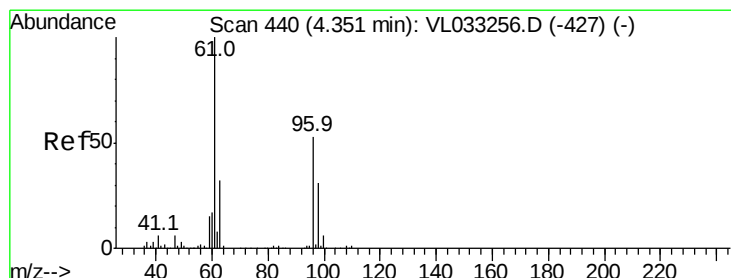
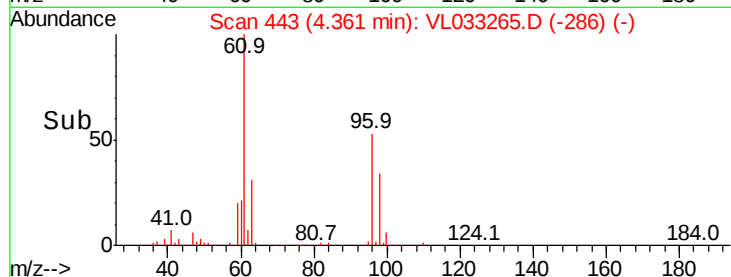
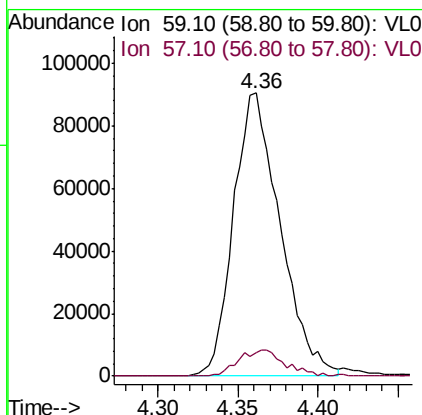
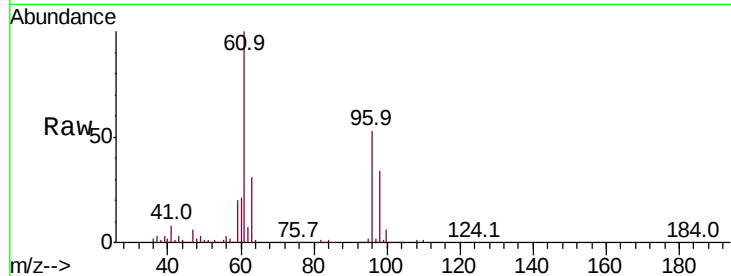
tert-Butyl alcohol
Concen: 8.944 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.01 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampled :
VL0308ABS01

Tot Ion: 59 Resp: 179929
Ion Ratio Lower Upper
59 100
57 9.3 7.2 10.8

Manual Integrations
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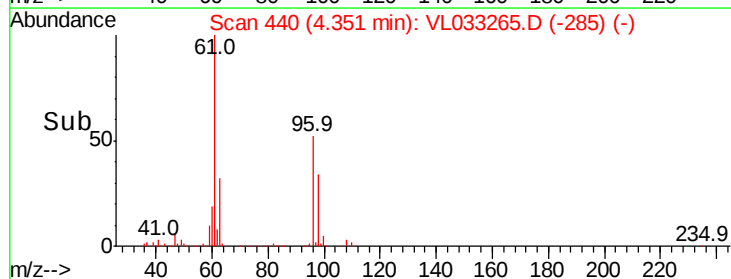
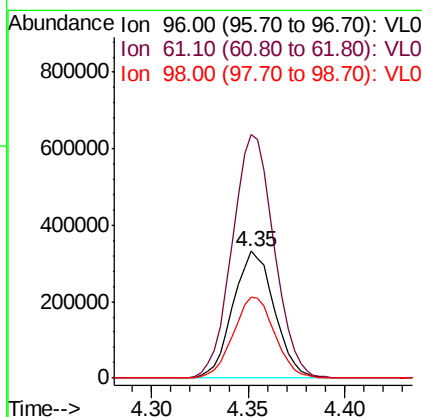
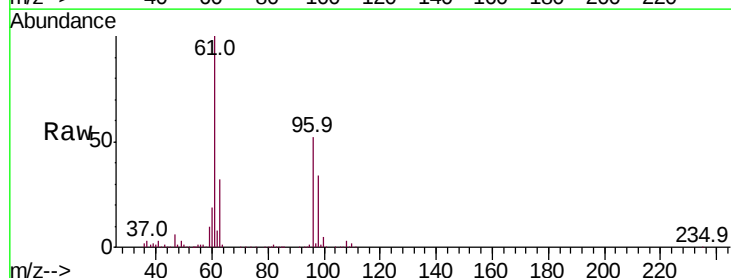
MMDadoda
3/11/2019 10:10:23 AM

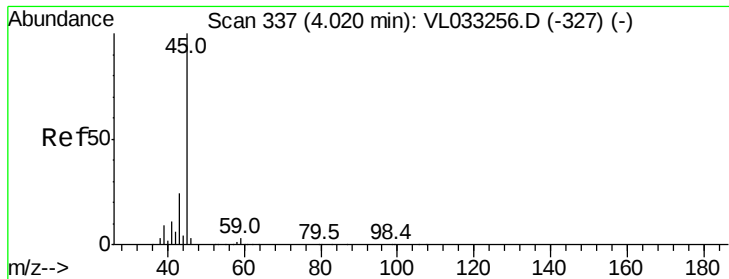


#18

1,1-Dichloroethene
Concen: 9.980 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion: 96 Resp: 492896
Ion Ratio Lower Upper
96 100
61 191.2 150.6 226.0
98 64.2 47.0 70.4





#19

Isopropyl Alcohol

Concen: 8.732 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

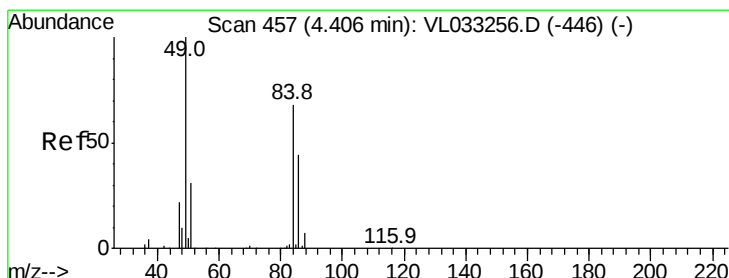
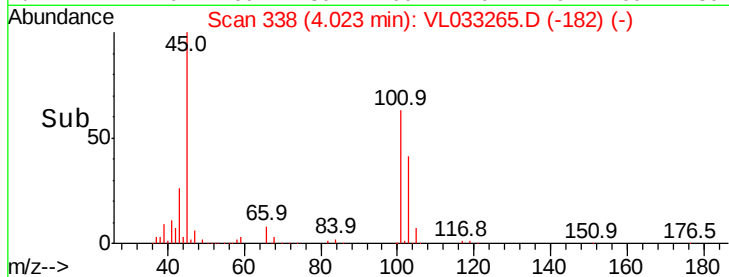
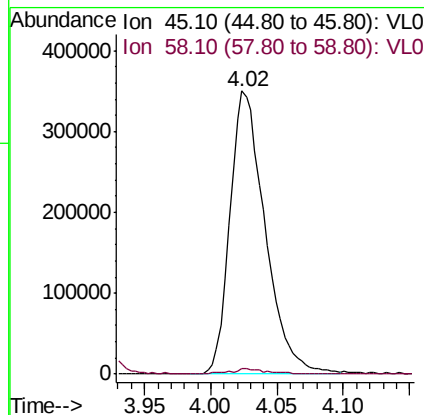
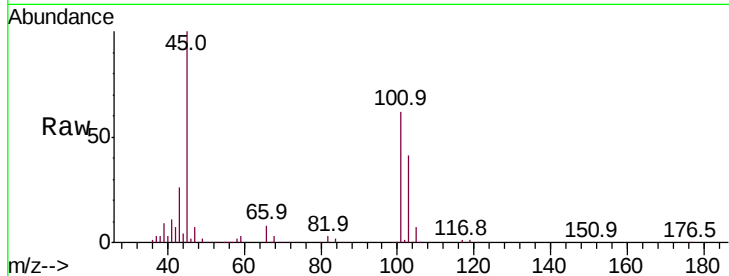
VL0308ABS01

Tot Ion: 45 Resp: 646797

Ion	Ratio	Lower	Upper
45	100		
58	2.3	1.5	2.3#

Manual Integrations
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MMDadoda
3/11/2019 10:10:23 AM



#20

Methylene Chloride

Concen: 8.325 ppbv

RT: 4.41 min Scan# 458

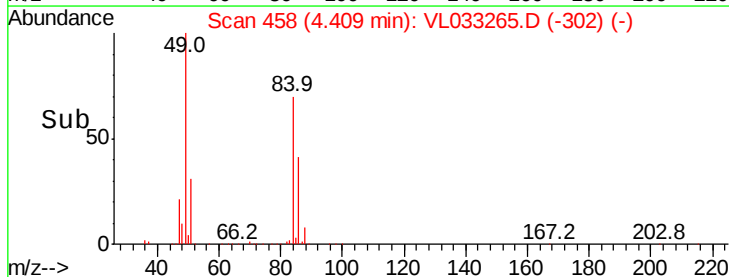
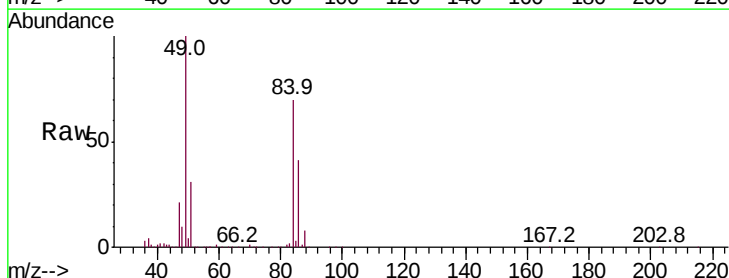
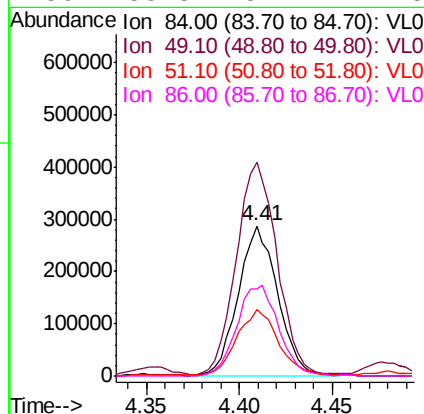
Delta R.T. 0.00 min

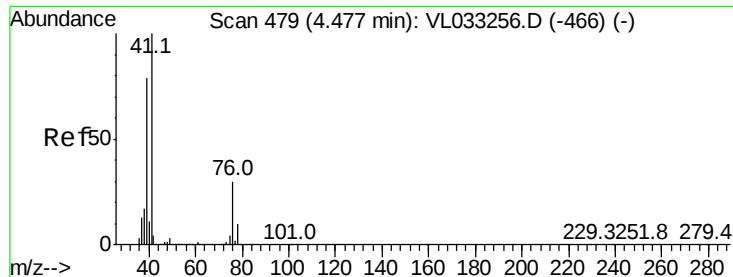
Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Tgt Ion: 84 Resp: 421535

Ion	Ratio	Lower	Upper
84	100		
49	141.5	117.8	176.6
51	43.9	36.9	55.3
86	58.5	51.7	77.5





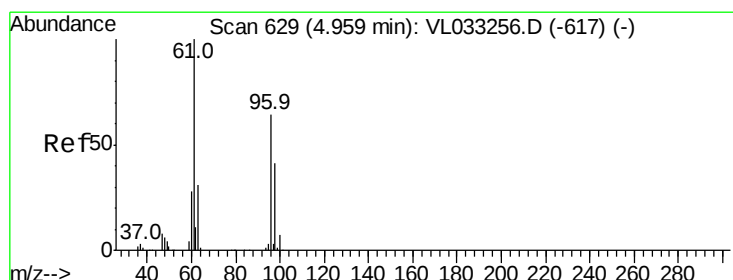
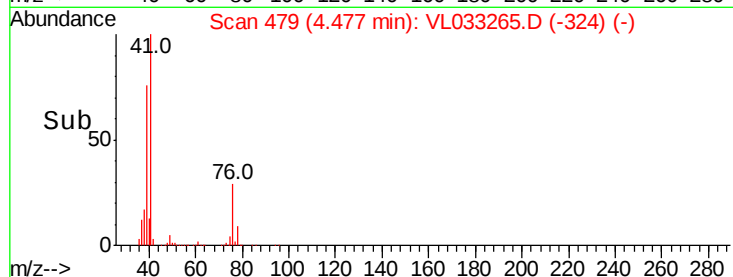
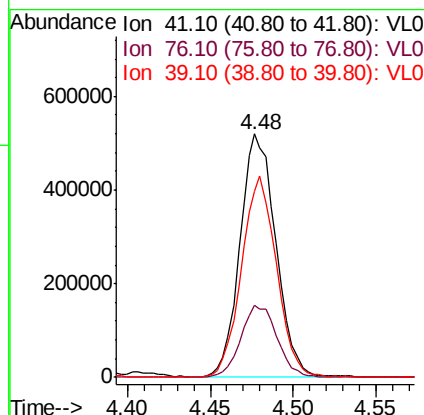
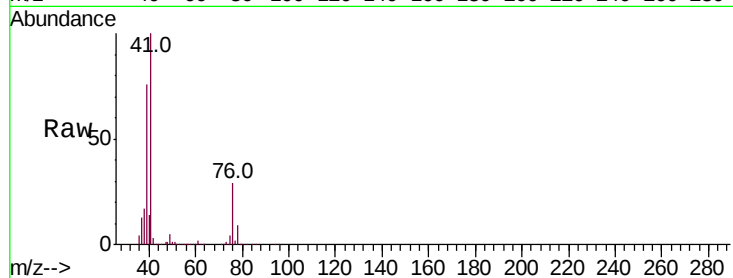
#21
Allvl Chloride
Concen: 10.490 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion	Ratio	Resp	Lower	Upper
41	100	777160		
76	30.3		24.5	36.7
39	81.2		65.3	97.9

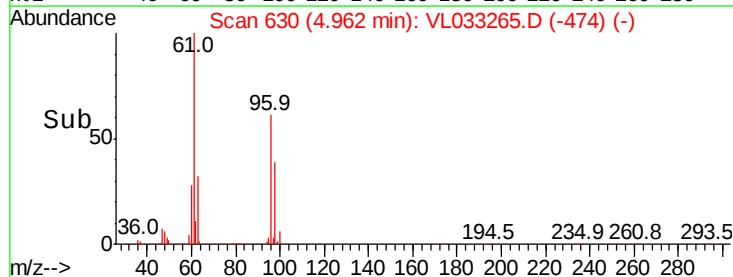
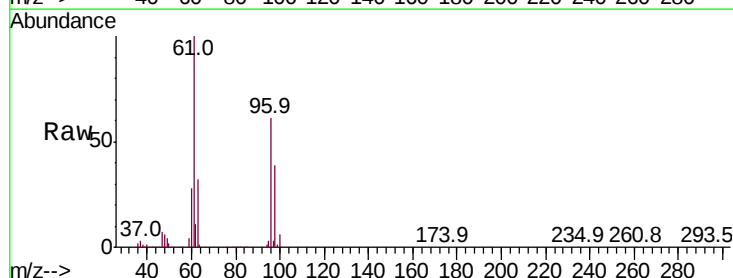
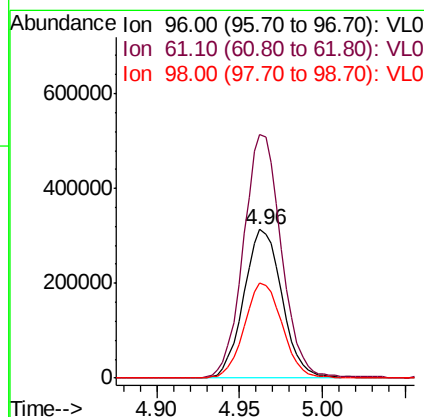
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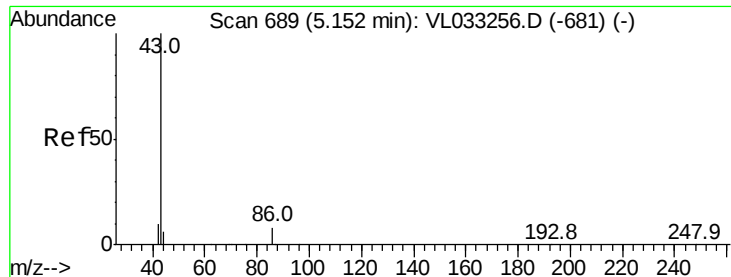
MMDadoda
3/11/2019 10:10:23 AM



#22
trans-1,2-Dichloroethene
Concen: 9.933 ppbv
RT: 4.96 min Scan# 630
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	503099		
61	163.7		125.7	188.5
98	63.9		52.1	78.1





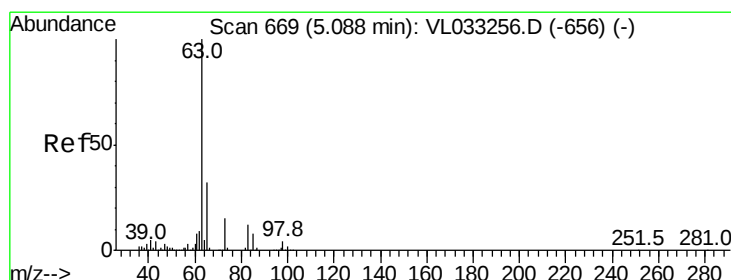
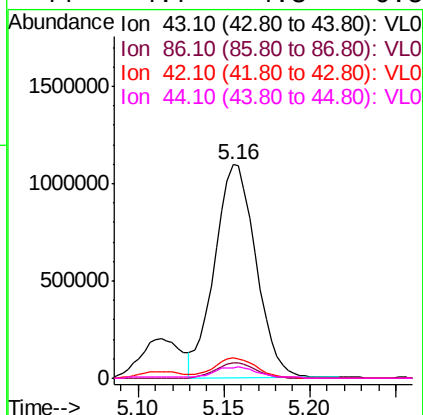
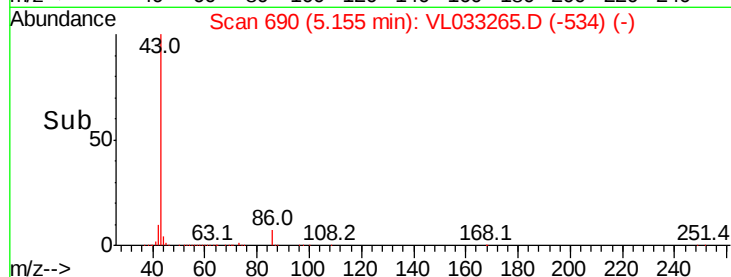
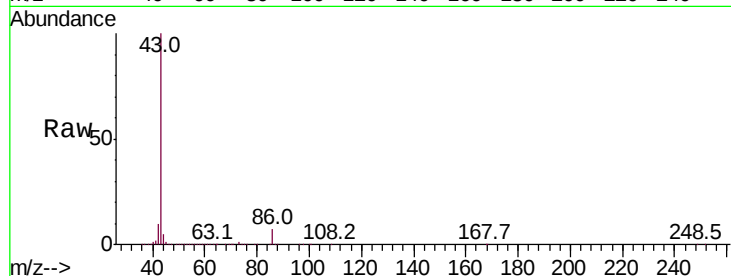
#23
 Vinyl Acetate
 Concen: 10.372 ppbv
 RT: 5.16 min Scan# 690
 Delta R.T. 0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Tot Ion	43	Resp	1832959
Ion	Ratio	Lower	Upper
43	100		
86	7.0	5.6	8.4
42	9.7	8.1	12.1
44	4.7	4.3	6.5

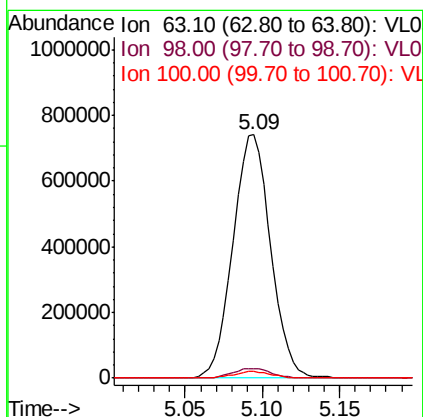
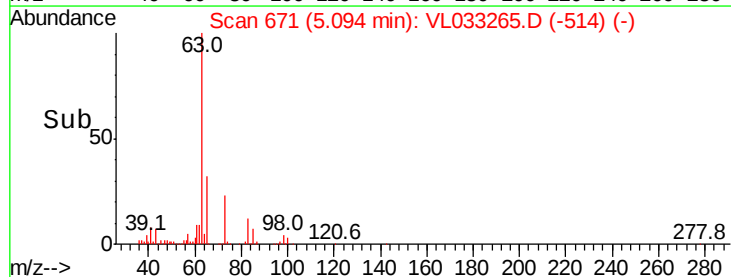
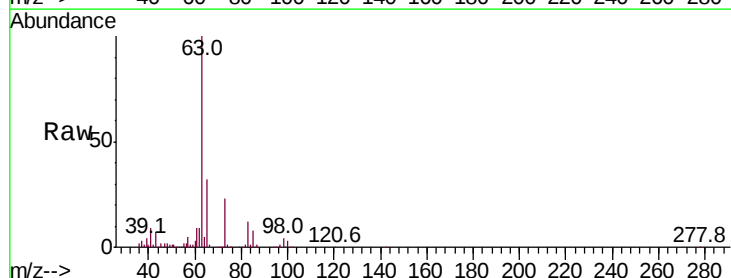
Manual Integrations
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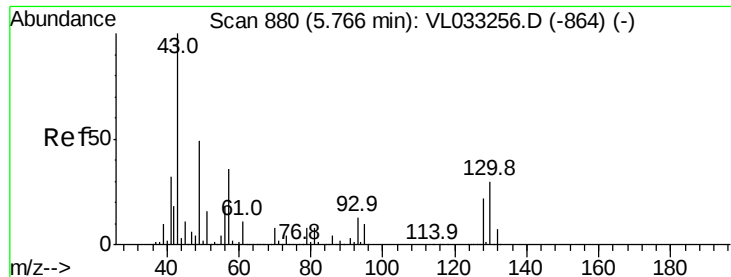
MMDadoda
 3/11/2019 10:10:23 AM



#24
 1,1-Dichloroethane
 Concen: 9.662 ppbv
 RT: 5.09 min Scan# 671
 Delta R.T. 0.01 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Tgt Ion	63	Resp	1253521
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.1	6.2
100	2.7	1.3	3.8





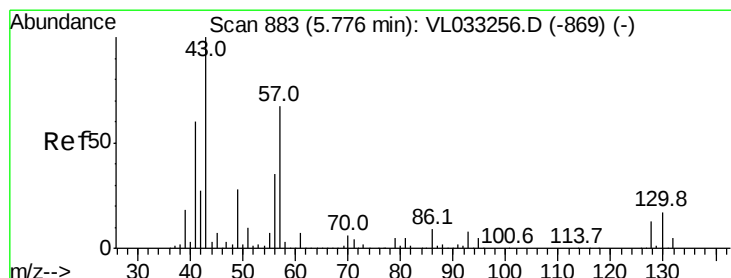
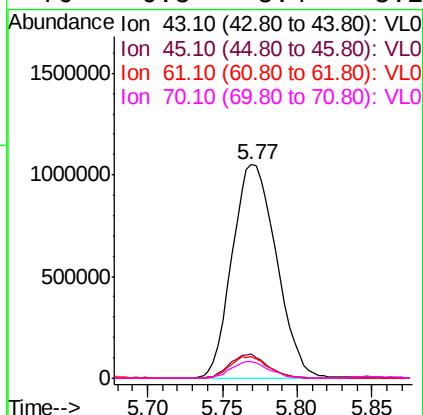
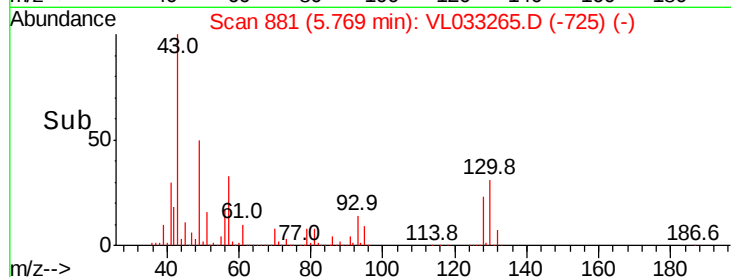
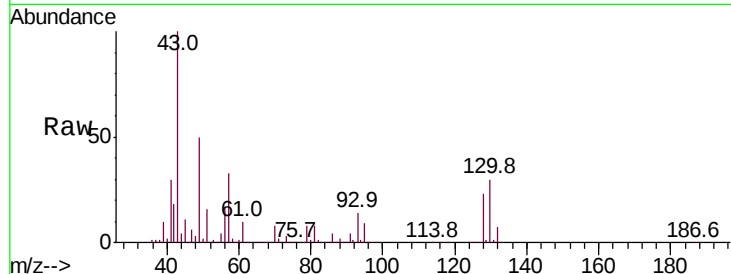
#25
Ethyl Acetate
Concen: 9.164 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion	43	Ratio	100	Resp	2159189	Lower	Upper
43	100						
45	9.8					7.8	11.8
61	9.0					7.4	11.0
70	6.8					5.4	8.2

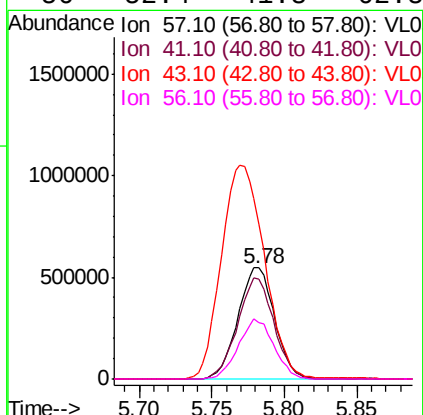
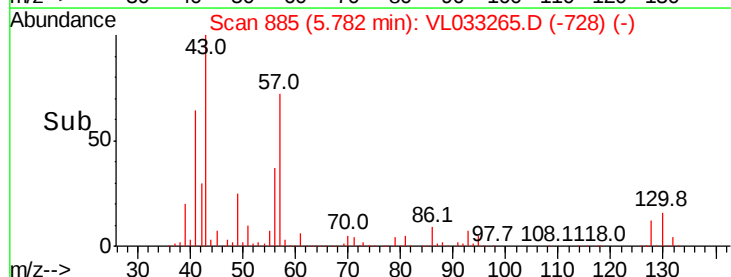
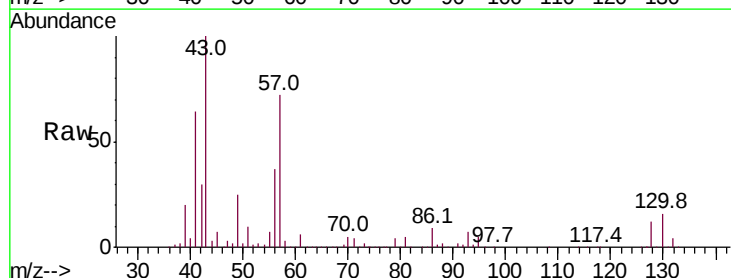
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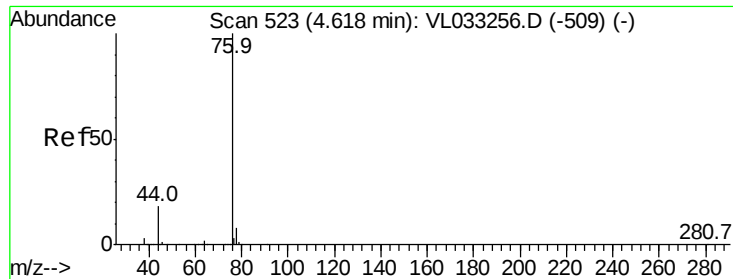
MMDadoda
3/11/2019 10:10:23 AM



#26
Hexane
Concen: 8.654 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion	57	Ratio	100	Resp	960688	Lower	Upper
57	100						
41	90.2					72.2	108.4
43	227.0					179.0	268.4
56	52.4					41.8	62.8





#27

Carbon Disulfide

Concen: 11.091 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 76 Resp: 1246827

Ion Ratio Lower Upper

76 100

44 18.6 14.8 22.2

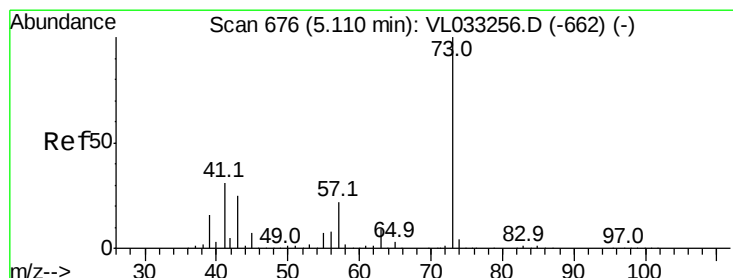
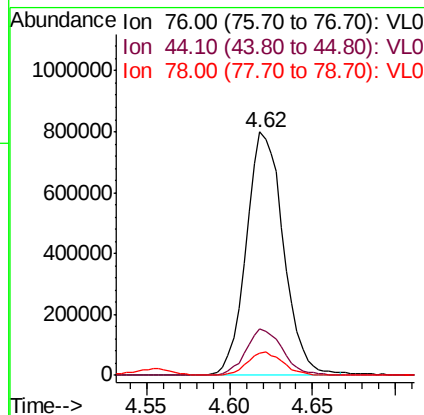
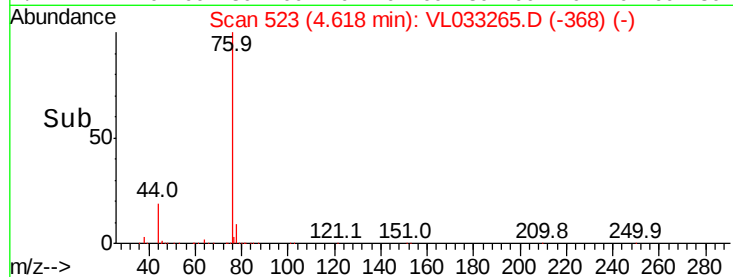
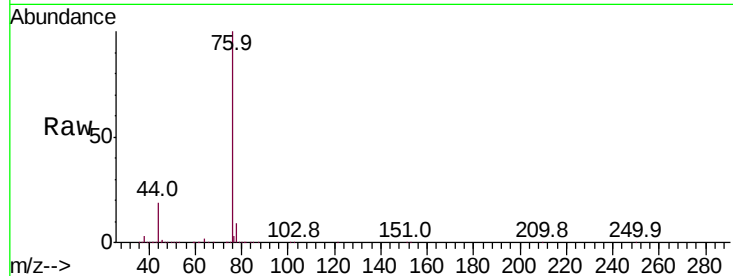
78 9.3 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 10.099 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033265.D

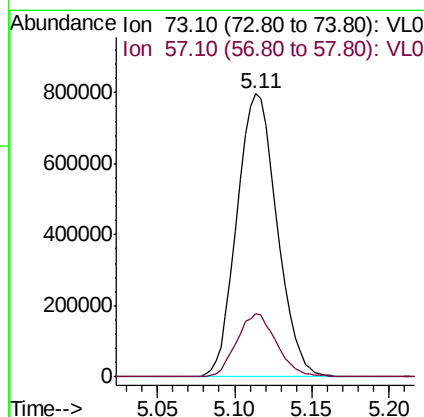
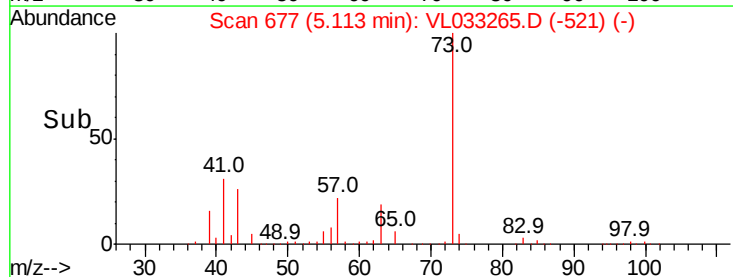
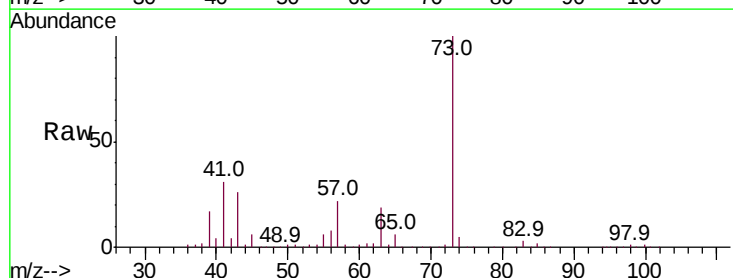
Acq: 8 Mar 2019 19:35

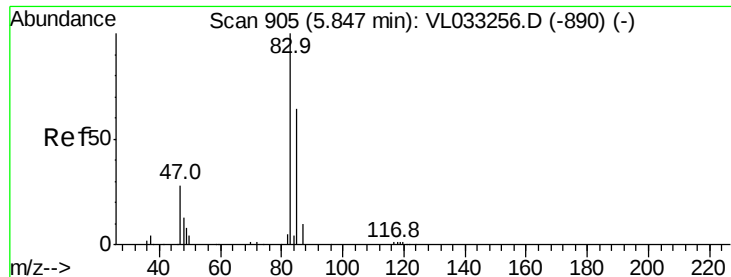
Tgt Ion: 73 Resp: 1440260

Ion Ratio Lower Upper

73 100

57 22.1 17.7 26.5





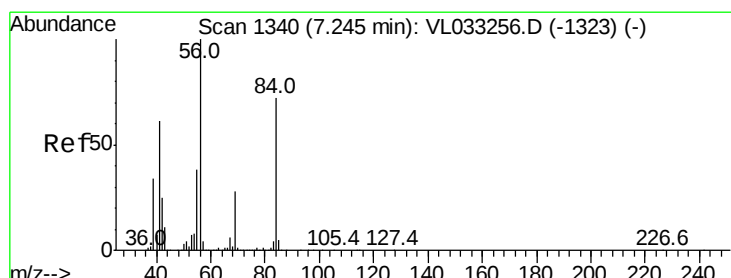
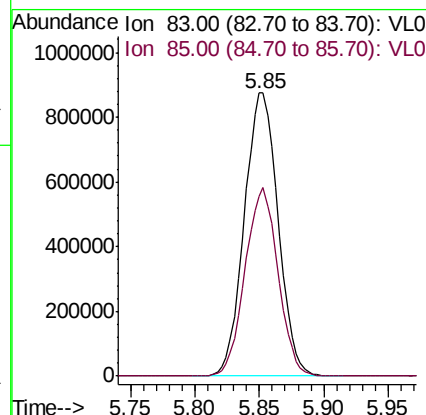
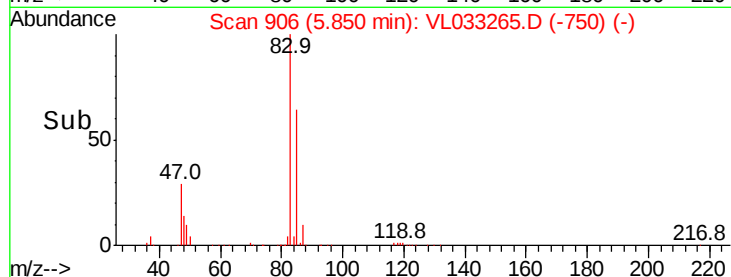
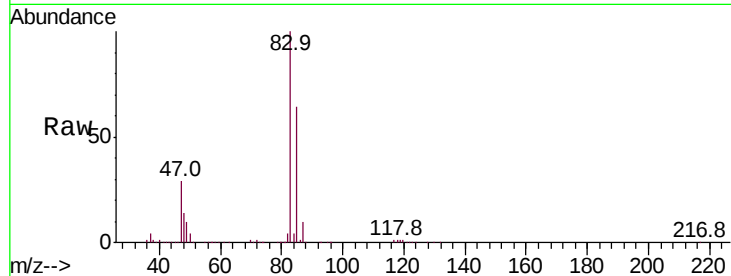
#29
Chloroform
Concen: 9.438 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion: 83 Resp: 1598885
Ion Ratio Lower Upper
83 100
85 63.6 51.0 76.6

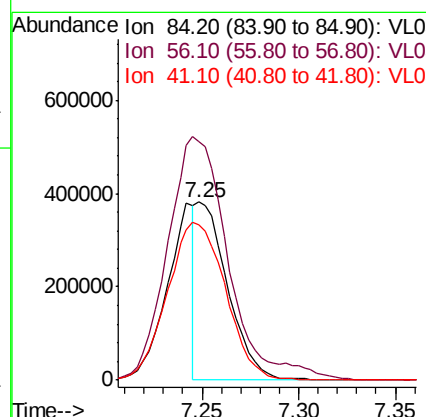
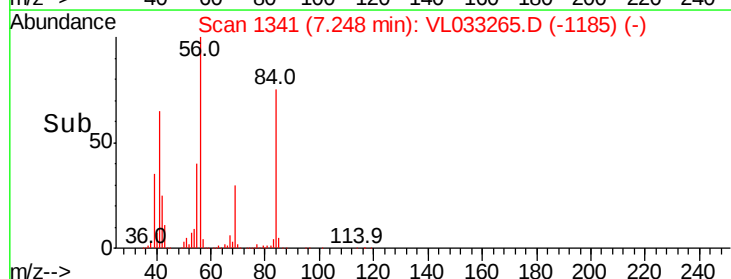
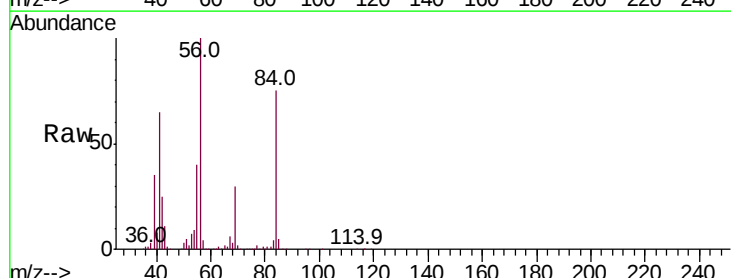
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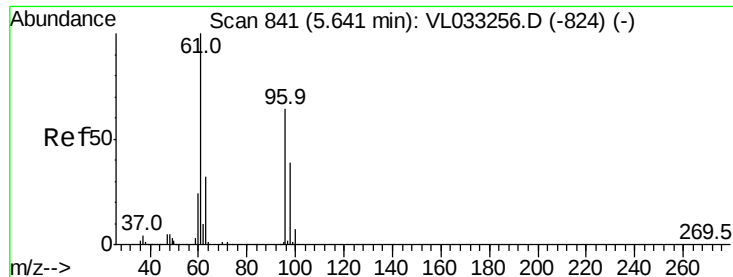
MMDadoda
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#30
Cyclohexane
Concen: 4.913 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion: 84 Resp: 422267
Ion Ratio Lower Upper
84 100
56 270.0 113.4 170.2#
41 167.4 70.2 105.4#





#31

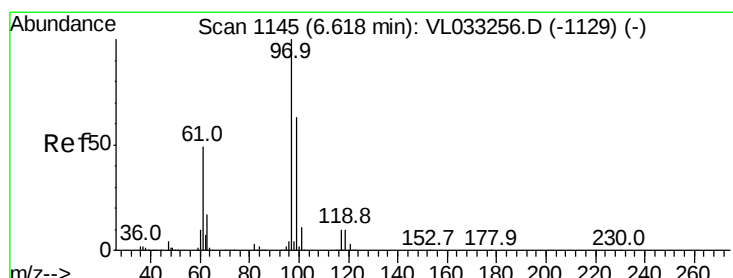
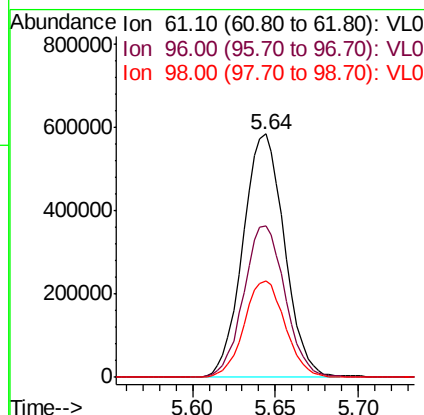
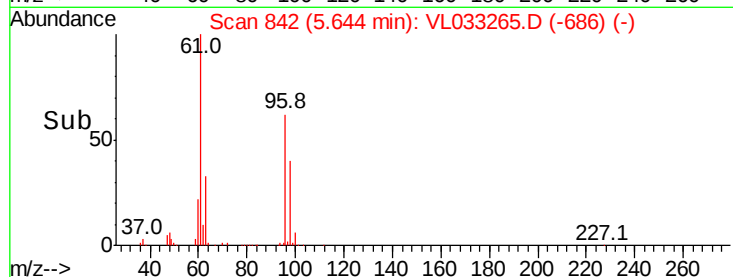
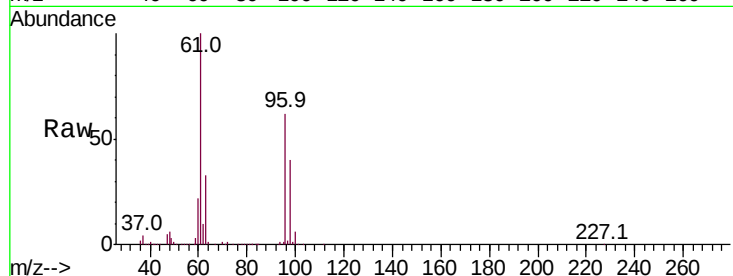
cis-1,2-Dichloroethene
Concen: 9.695 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.3	51.2	76.8
98	39.8	30.8	46.2

Manual Integrations
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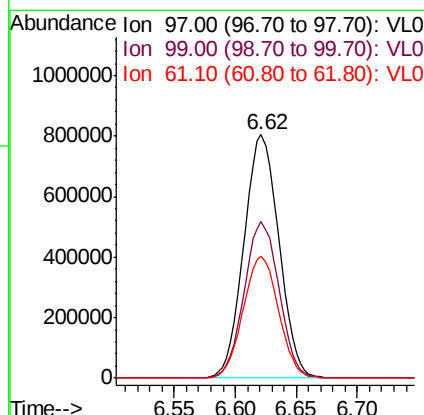
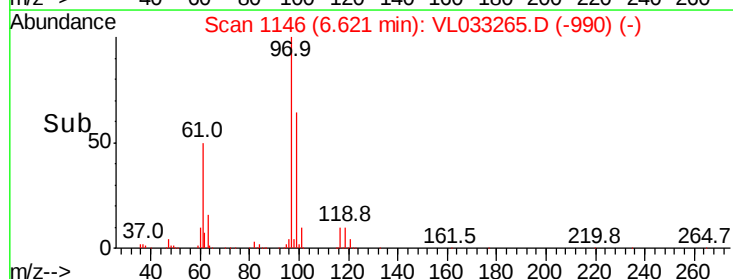
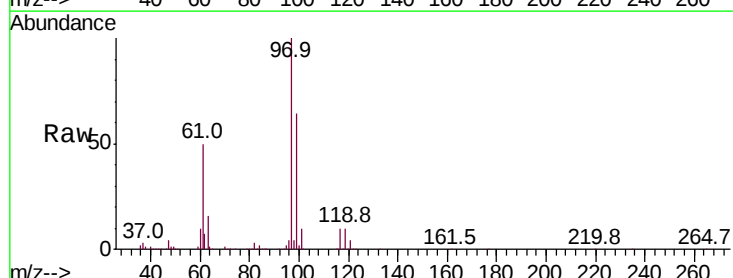
MMDadoda
3/11/2019 10:10:23 AM

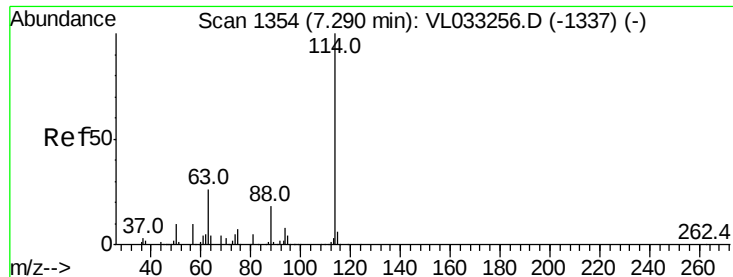


#32

1,1,1-Trichloroethane
Concen: 9.973 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.6	77.4
61	50.3	40.8	61.2





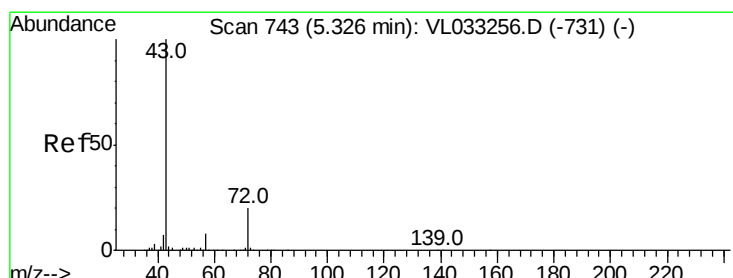
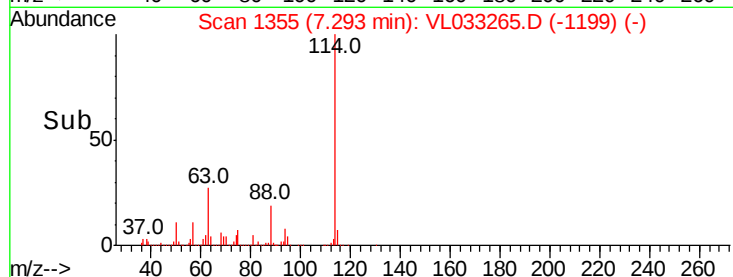
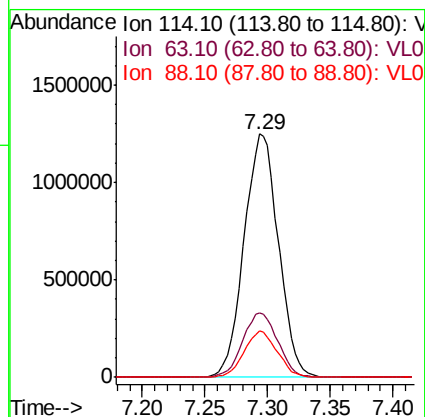
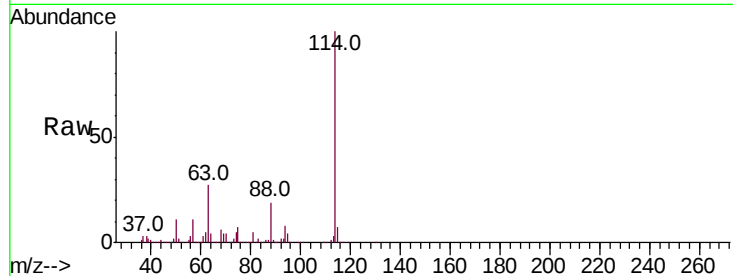
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.3	22.2	33.2
88	18.4	14.6	22.0

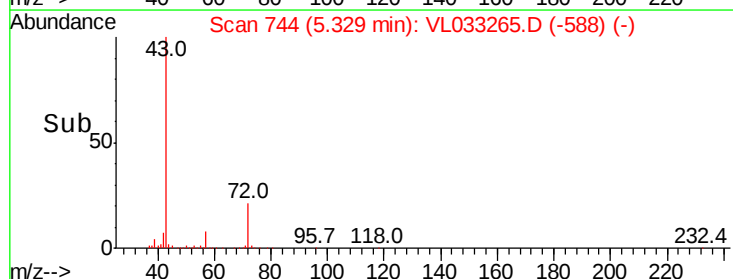
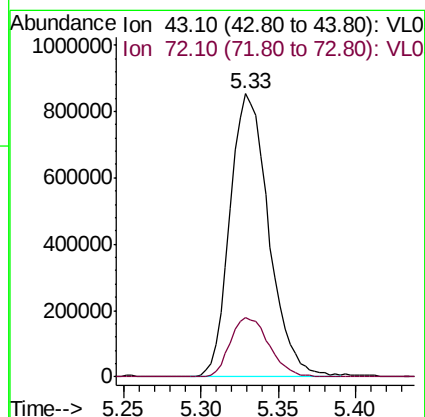
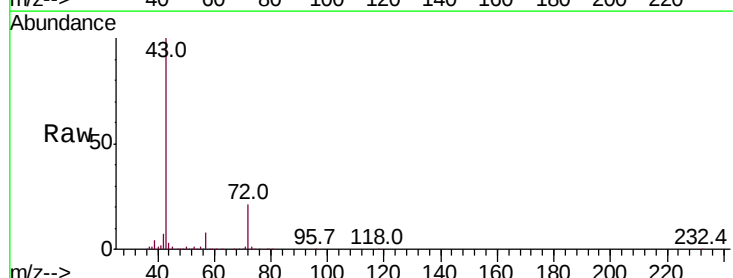
Manual Integrations
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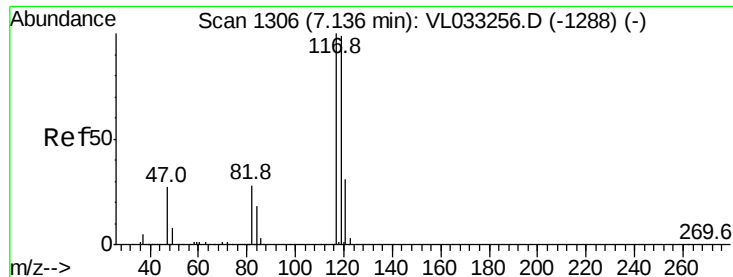
MMDadoda
 3/11/2019 10:10:23 AM



#34
 2-Butanone
 Concen: 10.242 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.4	16.9	25.3





#35

Carbon Tetrachloride

Concen: 10.160 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion:117 Resp: 1640864

Ion Ratio Lower Upper

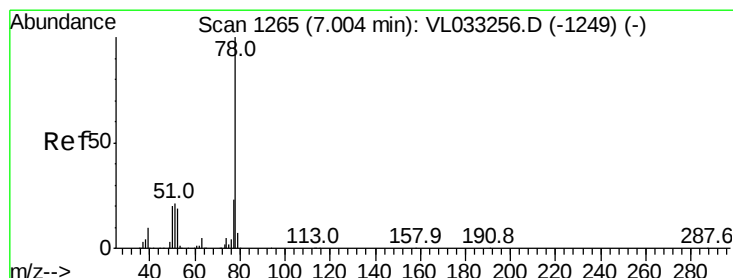
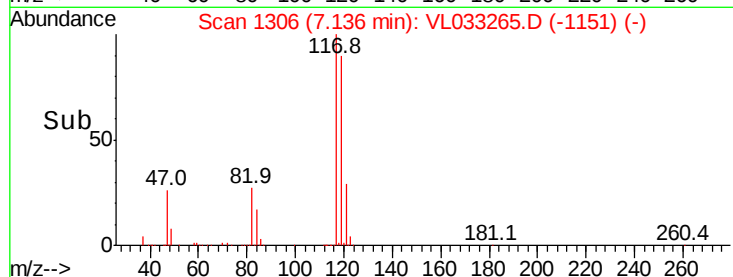
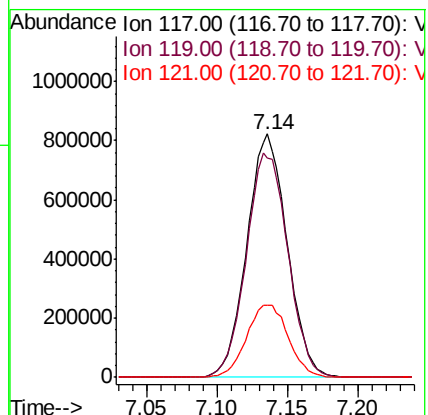
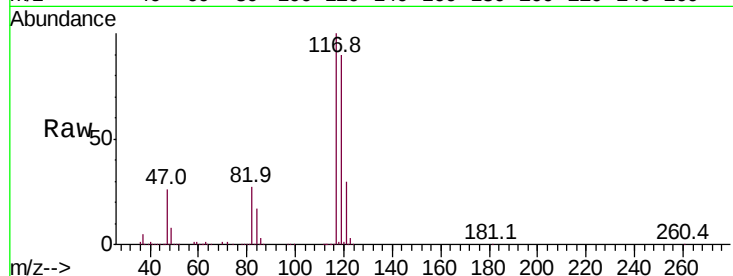
117 100

119 90.3 79.0 118.6

121 29.8 24.7 37.1

Manual Integrations
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MMDadoda
3/11/2019 10:10:23 AM



#36

Benzene

Concen: 9.854 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

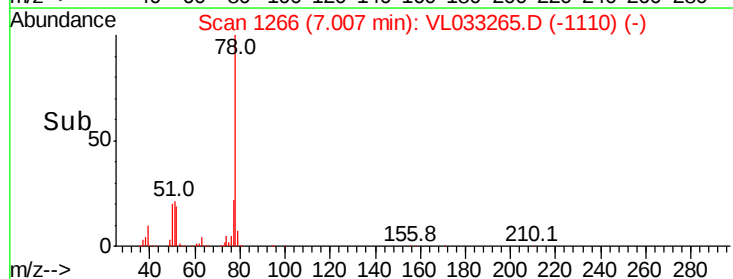
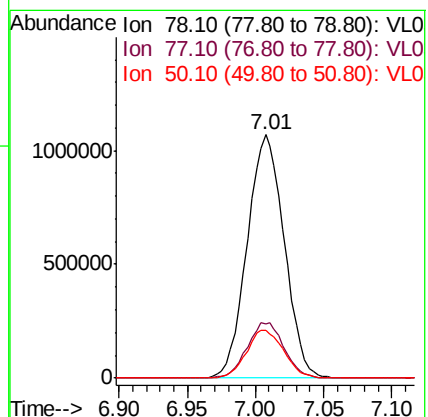
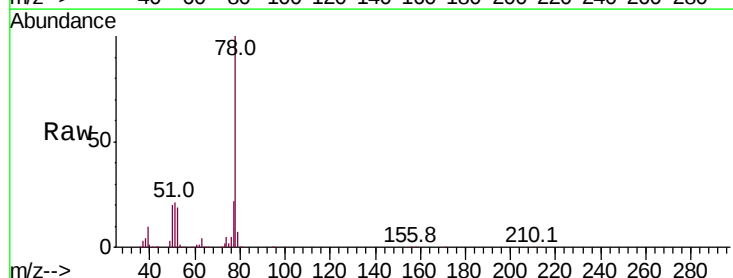
Tgt Ion: 78 Resp: 2018418

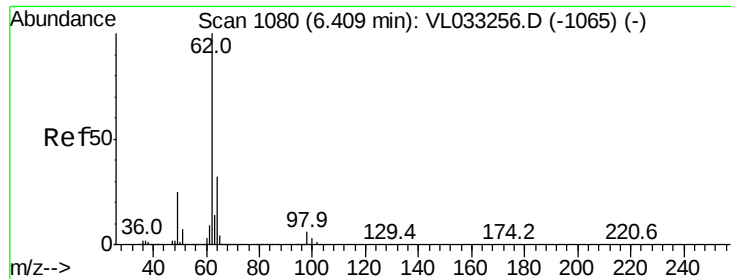
Ion Ratio Lower Upper

78 100

77 22.3 18.2 27.2

50 19.7 16.2 24.2





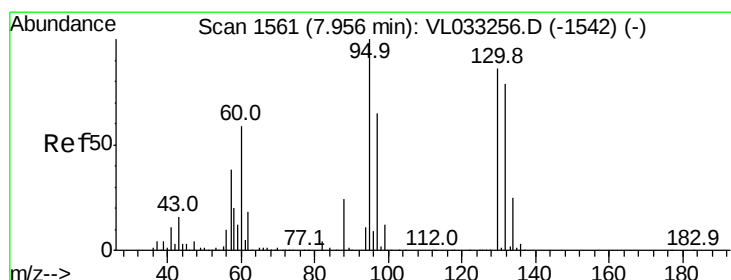
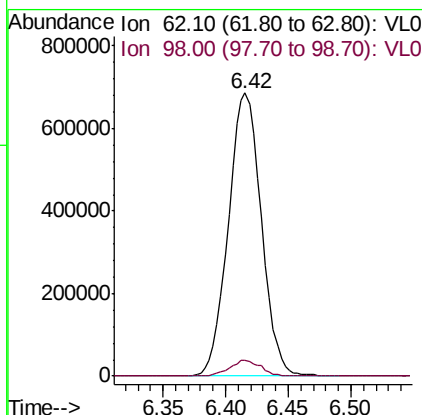
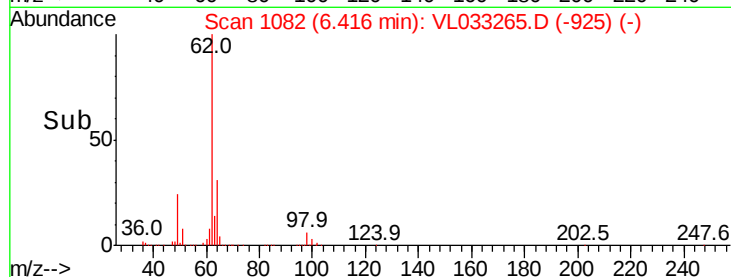
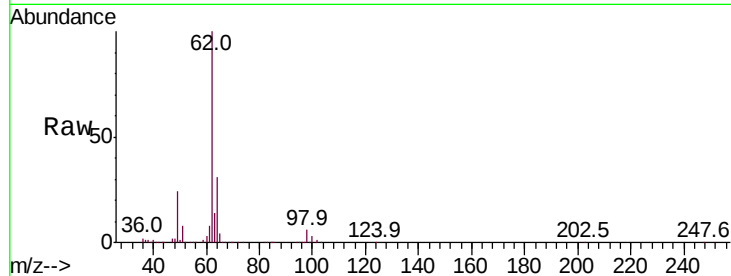
#37
 1,2-Dichloroethane
 Concen: 9.487 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.01 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Tot Ion: 62 Resp: 1251259
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.5 6.7

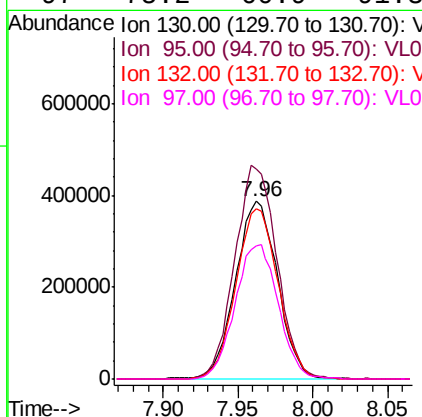
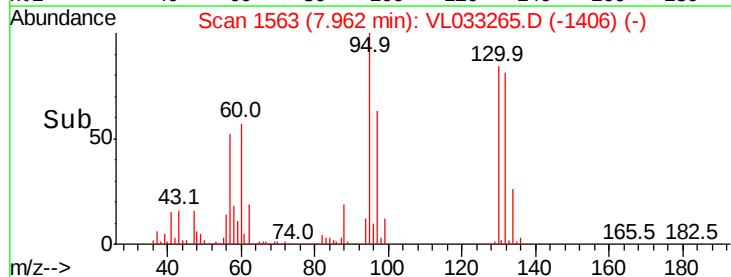
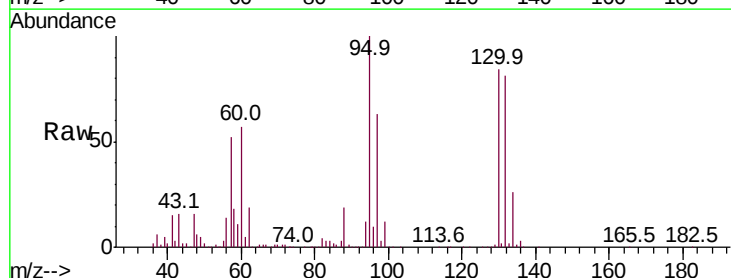
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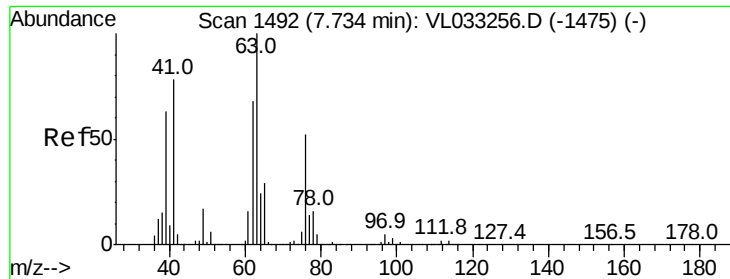
MMDadoda
 3/11/2019 10:10:23 AM



#38
 Trichloroethene
 Concen: 9.432 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.01 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Tgt Ion:130 Resp: 749719
 Ion Ratio Lower Upper
 130 100
 95 118.7 93.4 140.0
 132 96.0 74.0 111.0
 97 75.2 60.9 91.3





#39

1,2-Dichloropropane

Concen: 9.646 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

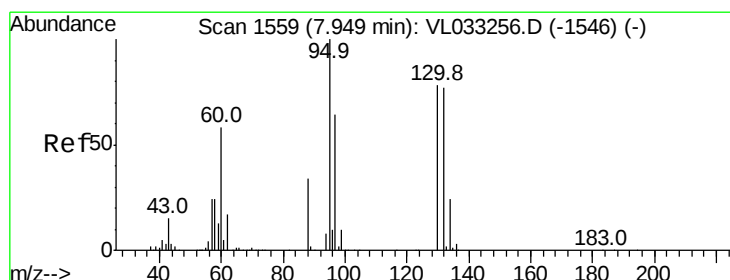
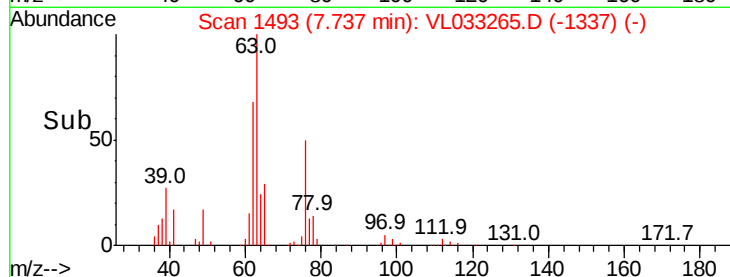
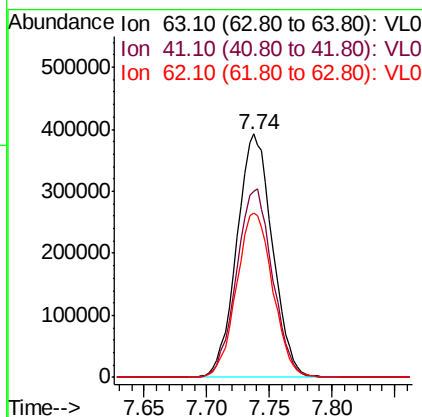
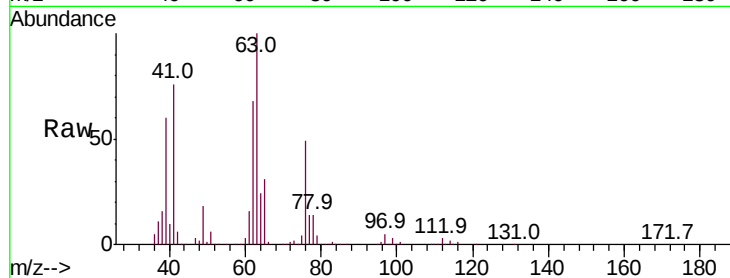
ClientSampleId :

VL0308ABS01

Tot Ion:	63	Resp:	775805
Ion Ratio	Lower	Upper	
63	100		
41	76.1	62.6	94.0
62	67.5	54.6	81.8

Manual Integrations
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MMDadoda
3/11/2019 10:10:23 AM



#40

1,4-Dioxane

Concen: 8.682 ppbv

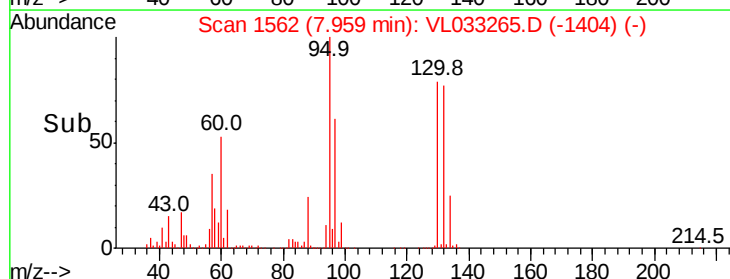
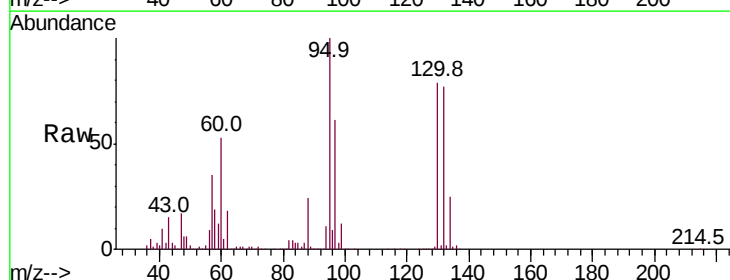
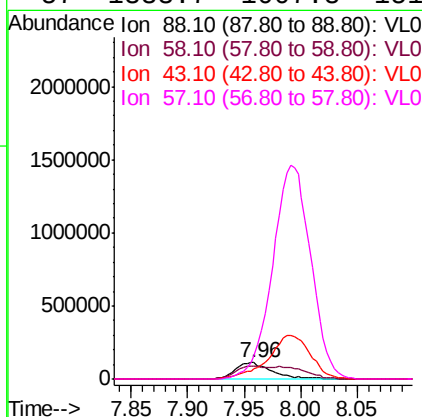
RT: 7.96 min Scan# 1562

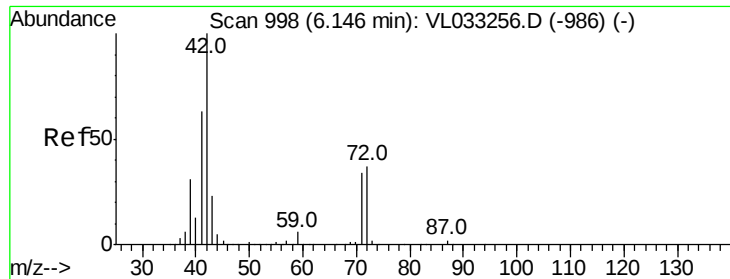
Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Tgt Ion:	88	Resp:	257364
Ion Ratio	Lower	Upper	
88	100		
58	136.6	108.4	162.6
43	301.2	232.3	348.5
57	1333.7	1007.8	1511.8





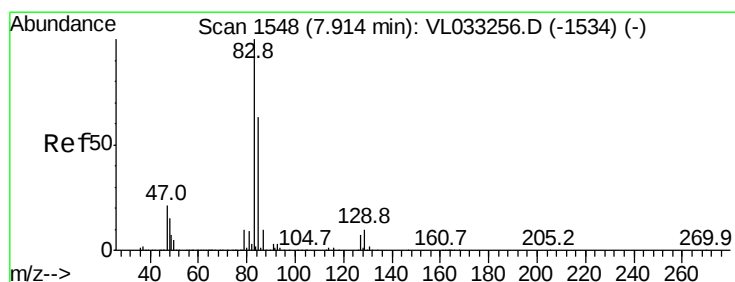
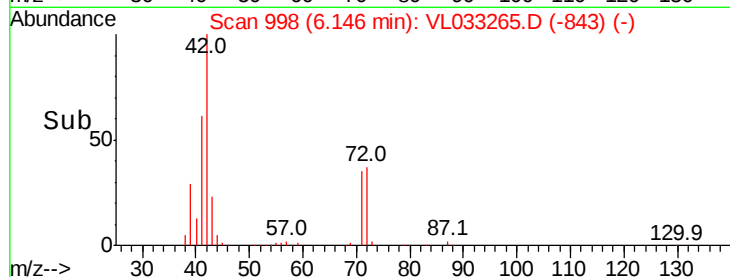
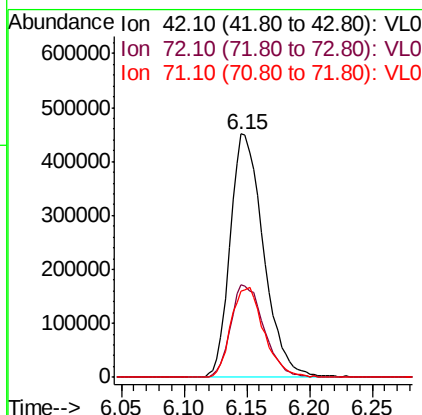
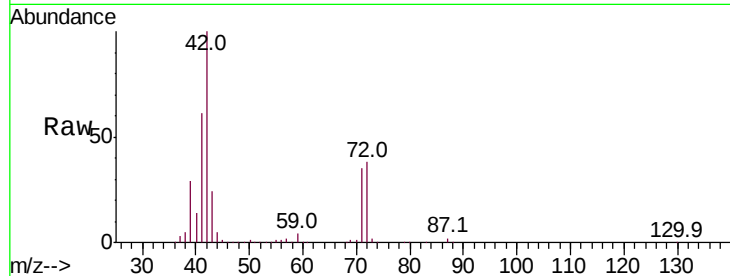
#41
Tetrahydrofuran
Concen: 10.293 ppbv
RT: 6.15 min Scan# 998
Delta R.T. -0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.2	30.2	45.2
71	36.7	29.0	43.6

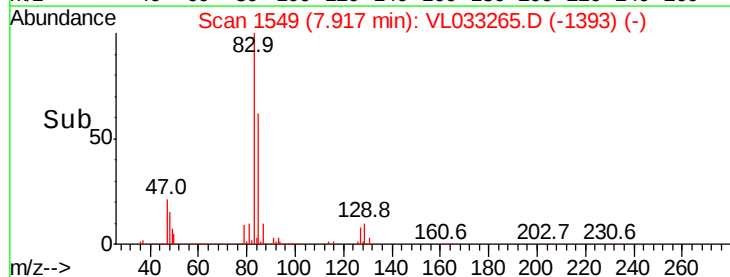
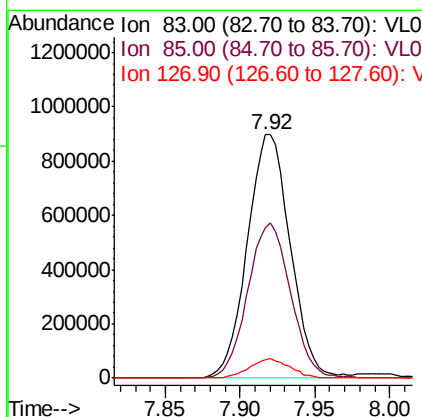
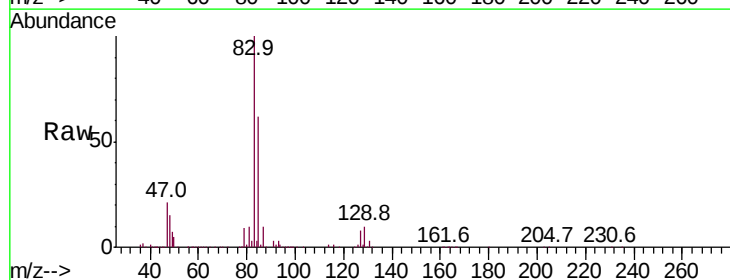
Manual Integrations
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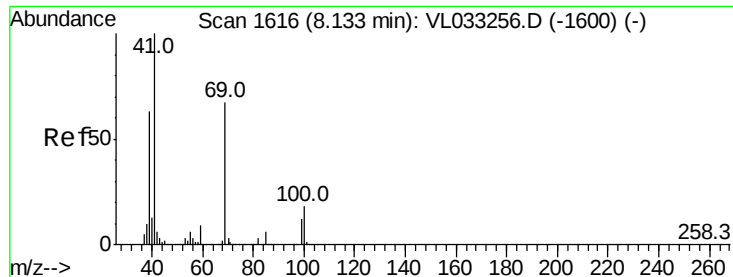
MMDadoda
3/11/2019 10:10:23 AM



#42
Bromodichloromethane
Concen: 9.967 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.1	75.1
127	7.6	5.9	8.9





#43

Methyl Methacrylate

Concen: 10.254 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

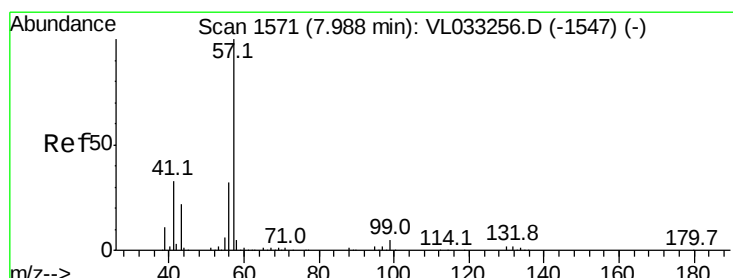
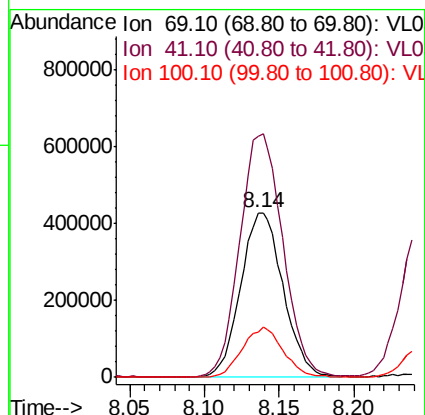
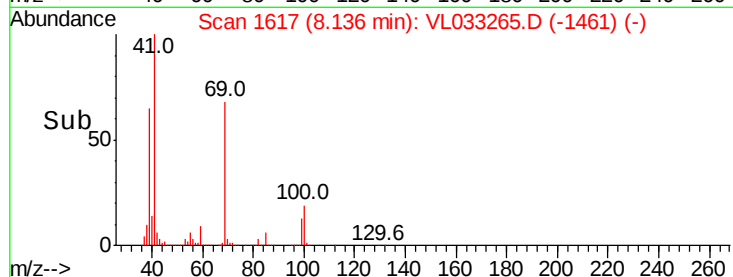
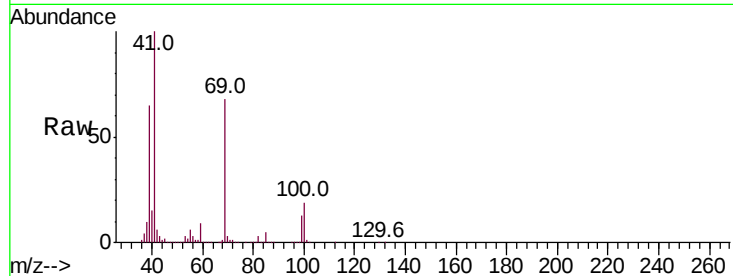
Instrument :
MSVOA_L

ClientSampleId :
VL0308ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	150.1	120.3	180.5
100	29.5	23.5	35.3

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#44

2,2,4-Trimethylpentane

Concen: 9.413 ppbv

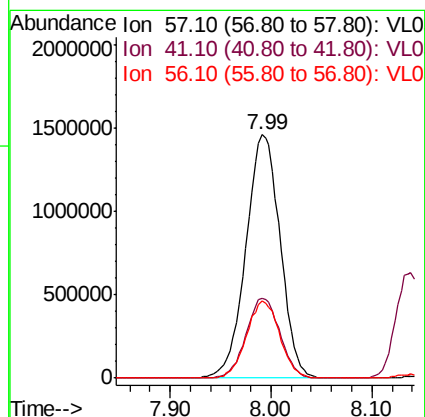
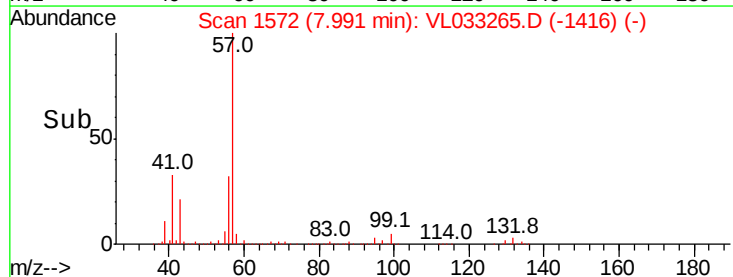
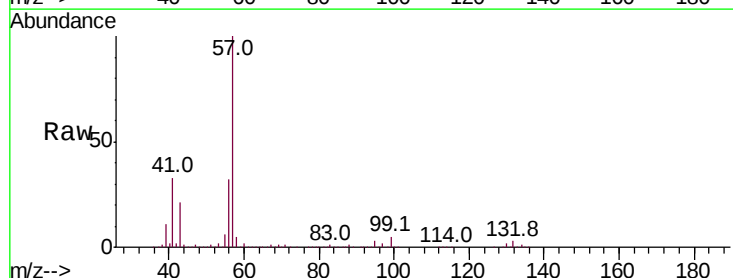
RT: 7.99 min Scan# 1572

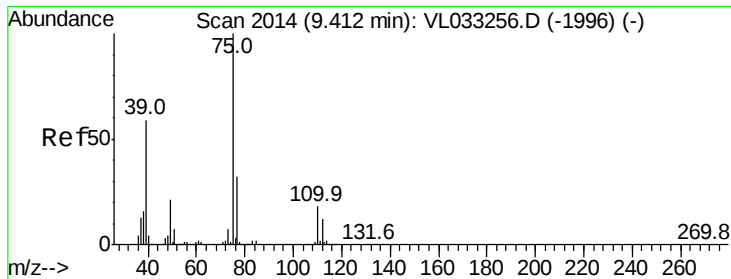
Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.5	26.4	39.6
56	30.8	25.1	37.7





#45

t-1,3-Dichloropropene

Concen: 11.379 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 75 Resp: 1135742

Ion Ratio Lower Upper

75 100

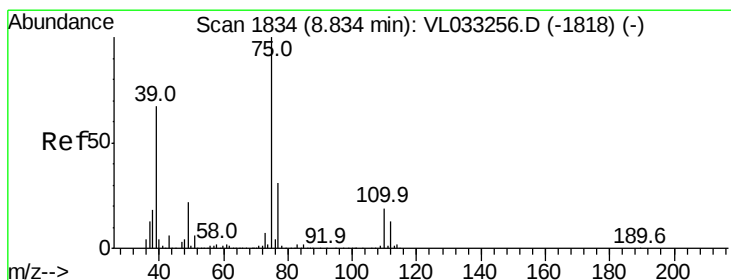
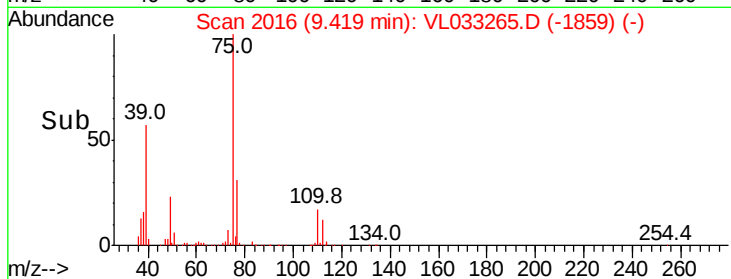
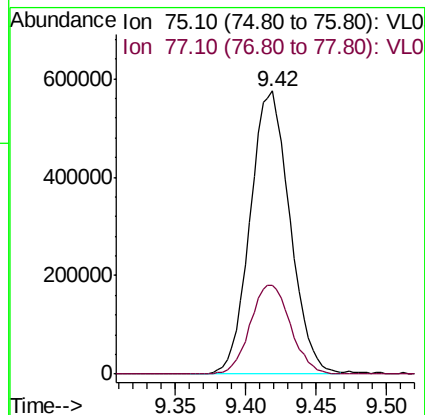
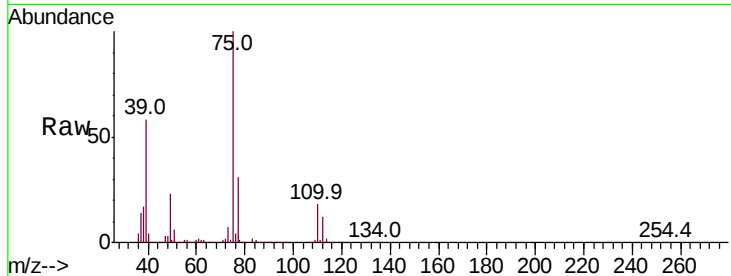
77 31.3 25.4 38.0

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#46

cis-1,3-Dichloropropene

Concen: 10.899 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

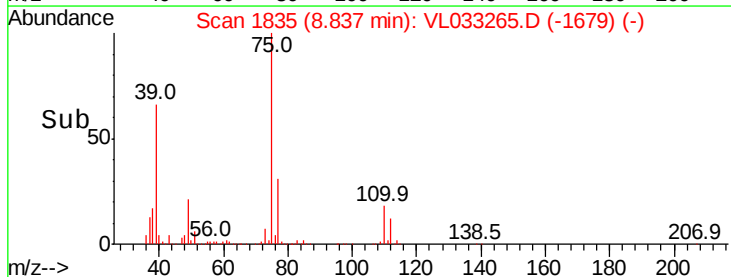
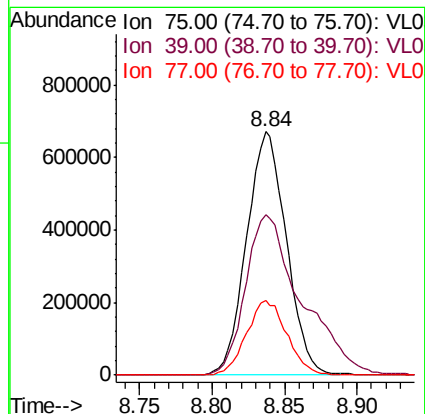
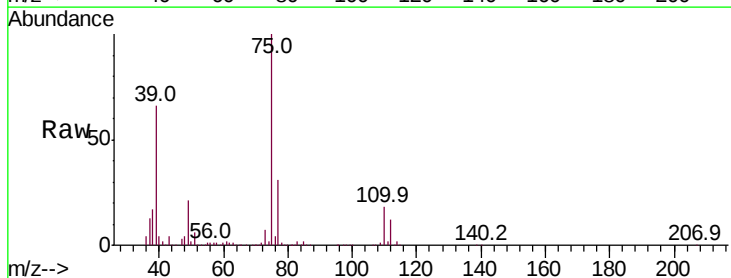
Tgt Ion: 75 Resp: 1280276

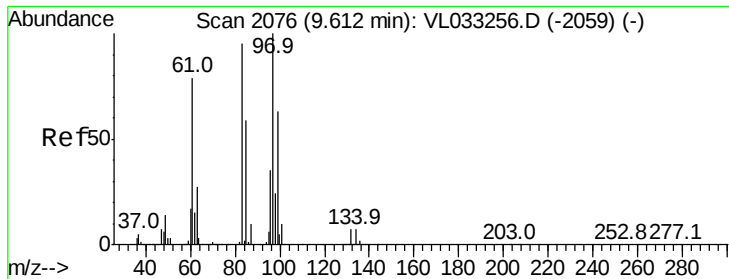
Ion Ratio Lower Upper

75 100

39 65.6 53.8 80.6

77 30.7 25.0 37.6





#47

1,1,2-Trichloroethane

Concen: 9.811 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

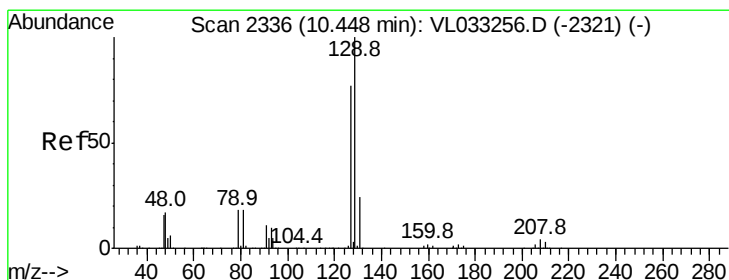
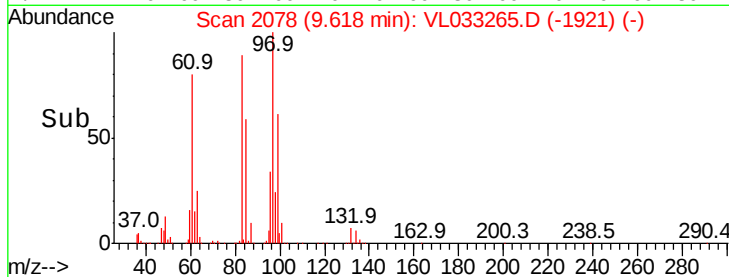
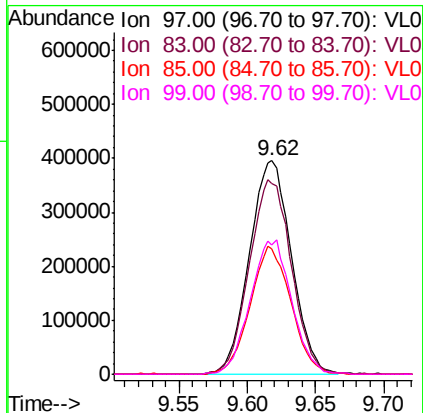
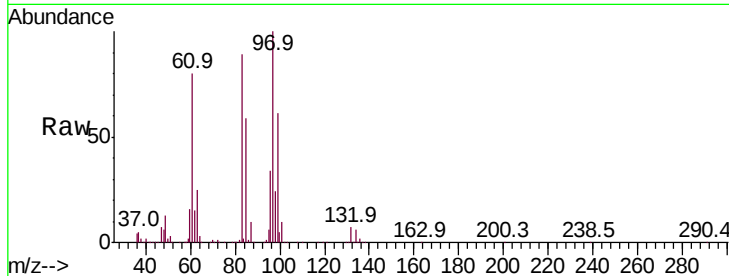
ClientSampleId :

VL0308ABS01

Tot Ion:	97	Resp:	846844
Ion	Ratio	Lower	Upper
97	100		
83	89.3	75.8	113.8
85	58.7	47.5	71.3
99	60.7	50.2	75.2

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#48

Dibromochloromethane

Concen: 10.731 ppbv

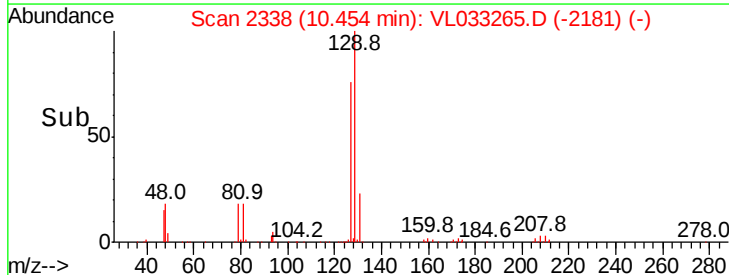
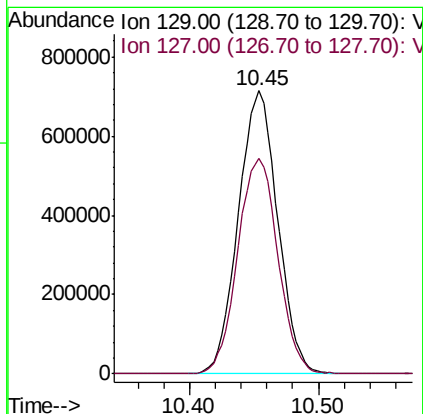
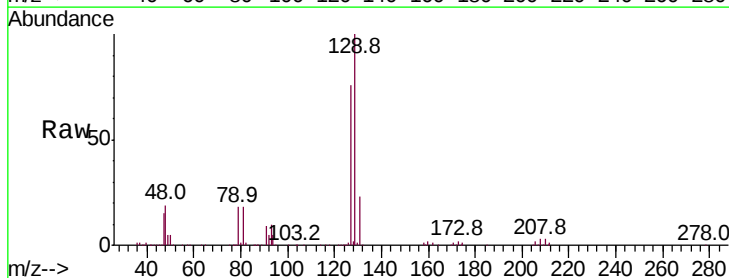
RT: 10.45 min Scan# 2338

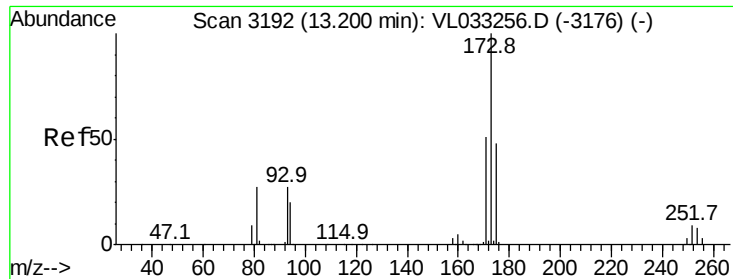
Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Tgt Ion:	129	Resp:	1518597
Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.4	118.2





#49

Bromoform

Concen: 10.434 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion:173 Resp: 1314070

Ion Ratio Lower Upper

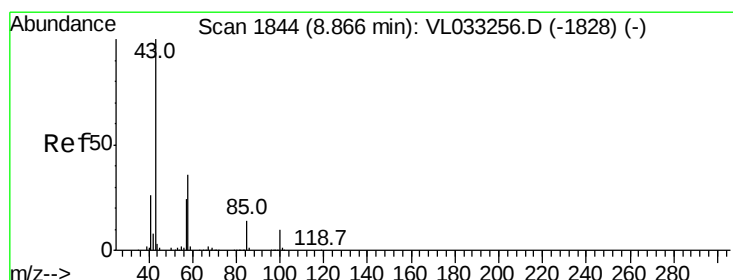
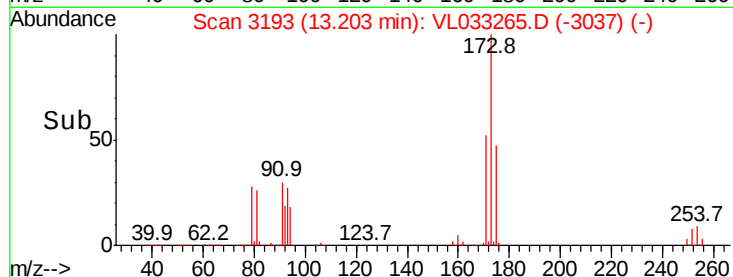
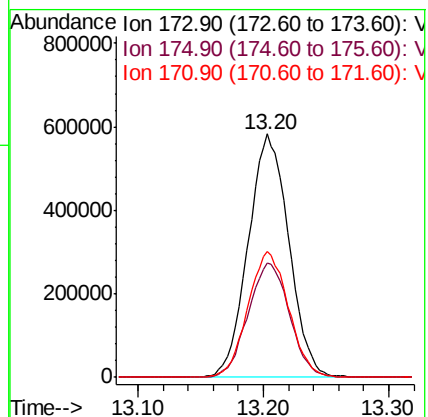
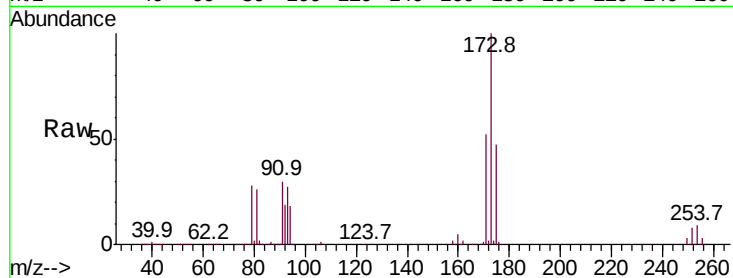
173 100

175 47.9 38.8 58.2

171 51.8 41.5 62.3

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#50

4-Methyl-2-Pentanone

Concen: 9.790 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033265.D

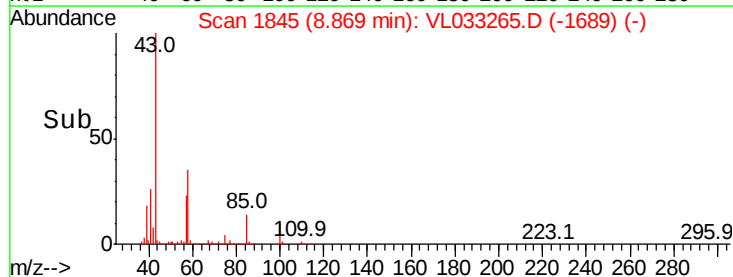
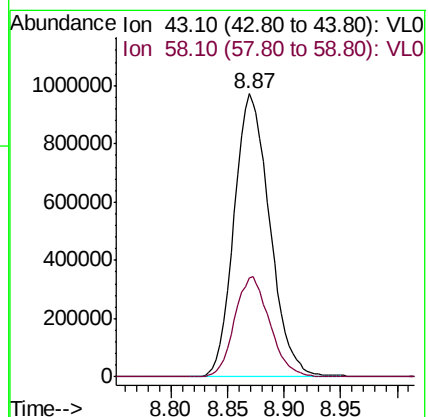
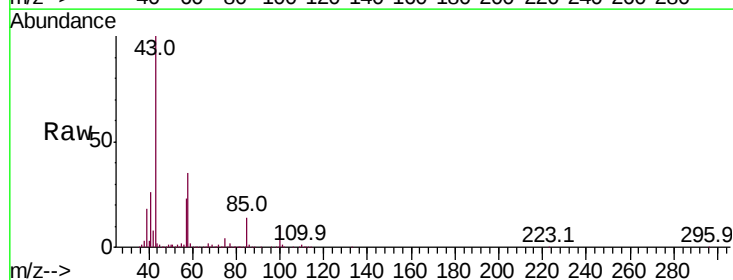
Acq: 8 Mar 2019 19:35

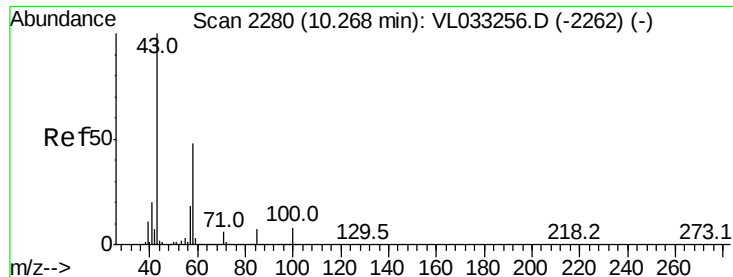
Tgt Ion: 43 Resp: 2130742

Ion Ratio Lower Upper

43 100

58 35.2 28.1 42.1





#51

2-Hexanone

Concen: 10.678 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 43 Resp: 1732396

Ion Ratio Lower Upper

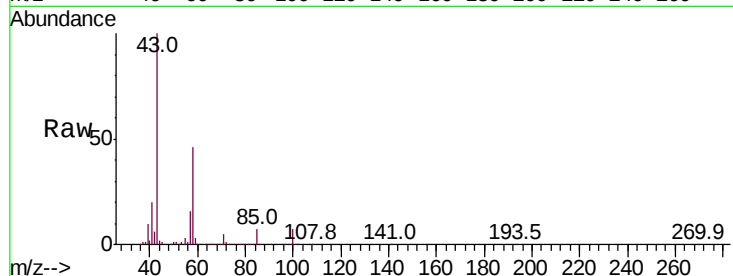
43 100

58 46.8 38.1 57.1

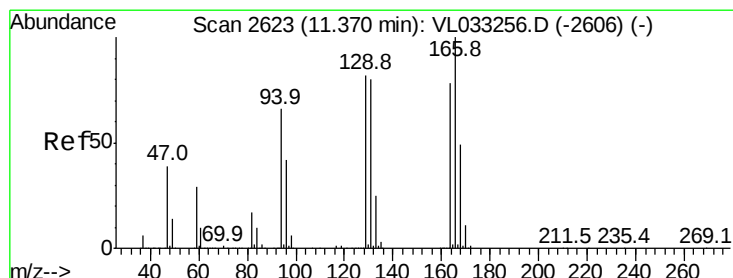
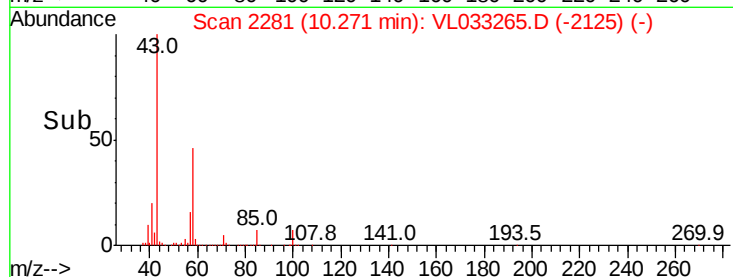
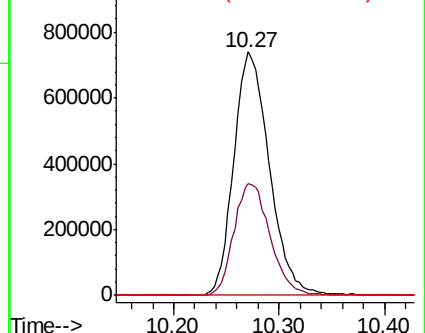
98 0.2 0.2 0.4#

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



#52

Tetrachloroethene

Concen: 9.700 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Tgt Ion: 164 Resp: 740318

Ion Ratio Lower Upper

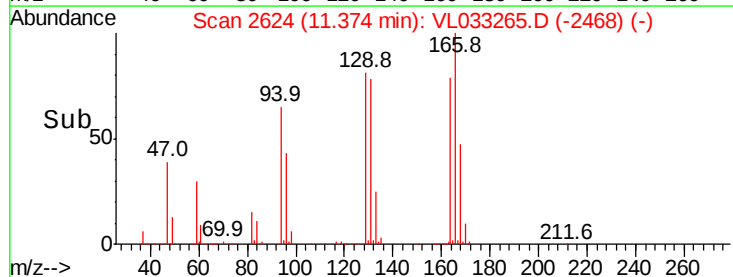
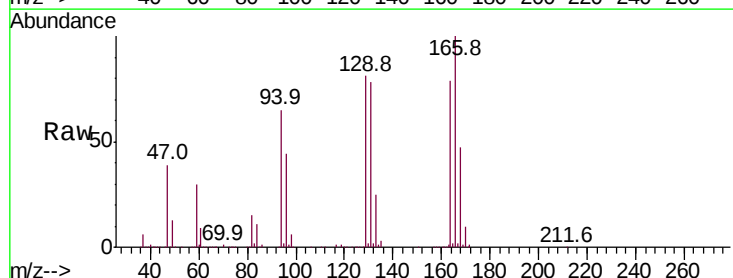
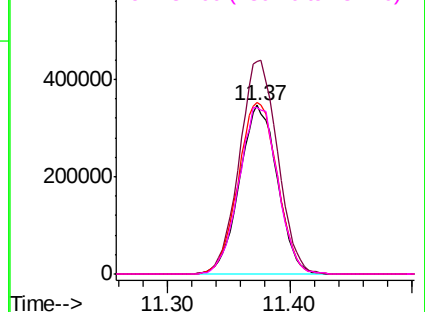
164 100

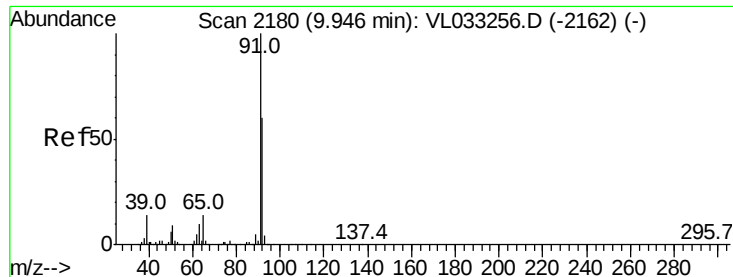
166 126.2 102.0 153.0

129 101.8 83.2 124.8

131 98.7 81.4 122.0

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: 10.426 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 91 Resp: 2446084

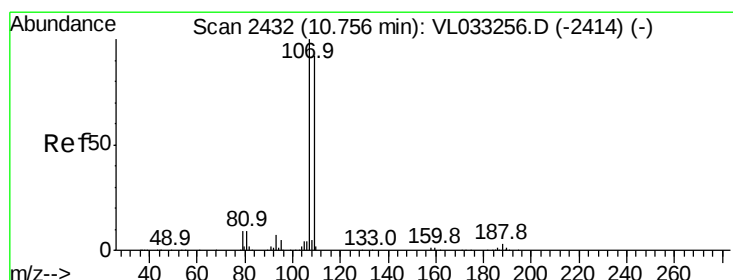
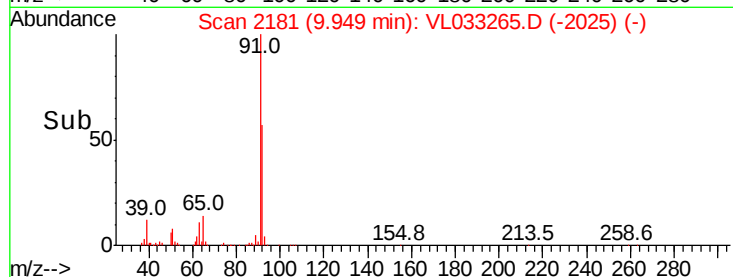
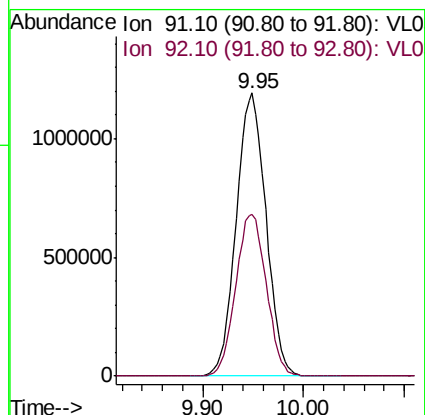
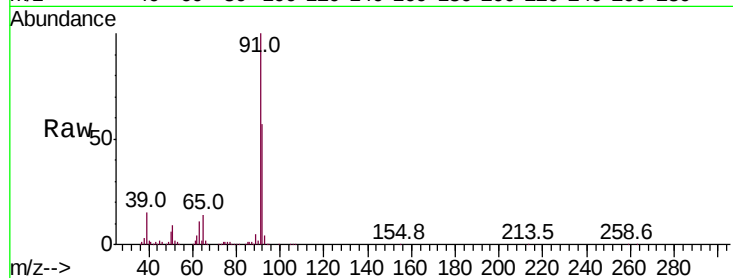
Ion Ratio Lower Upper

91 100

92 58.8 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 9.999 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.01 min

Lab File: VL033265.D

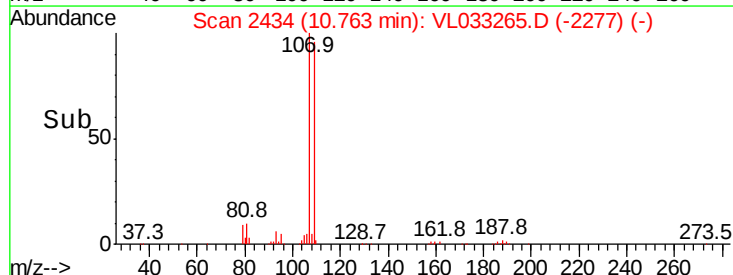
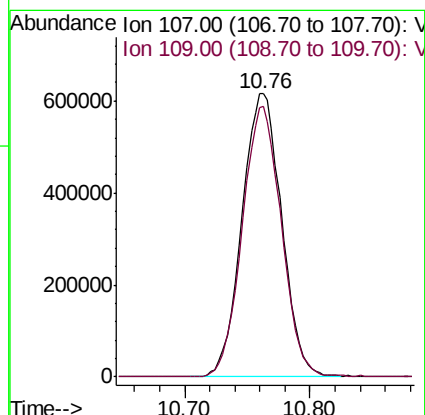
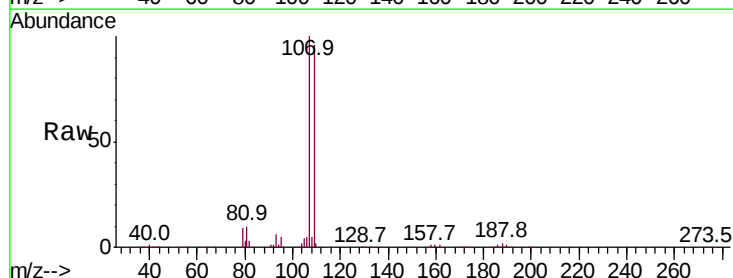
Acq: 8 Mar 2019 19:35

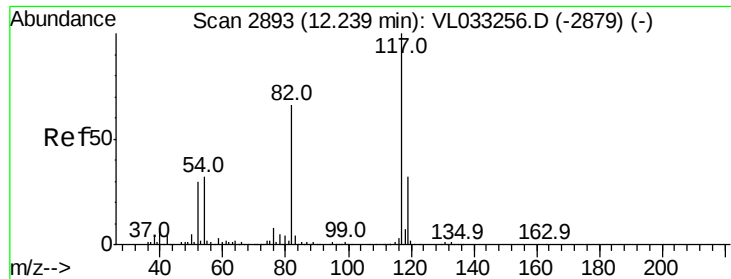
Tgt Ion: 107 Resp: 1351910

Ion Ratio Lower Upper

107 100

109 95.5 73.9 110.9





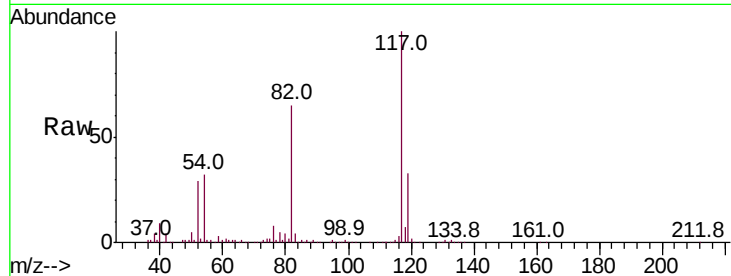
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

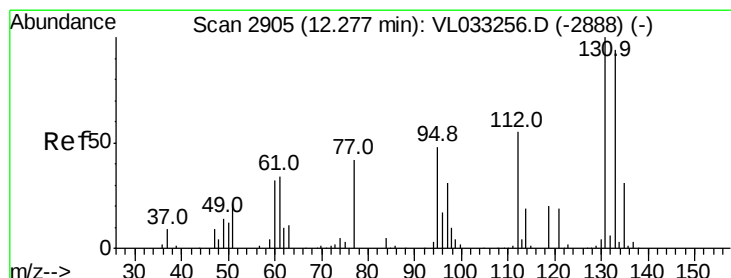
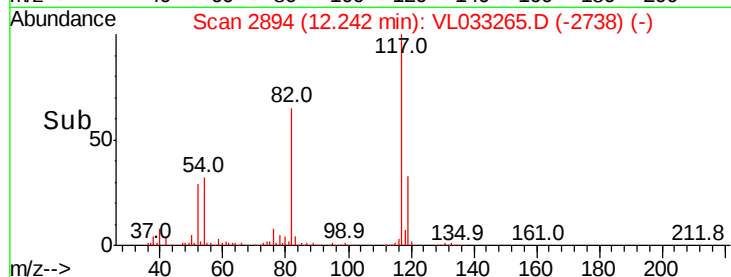
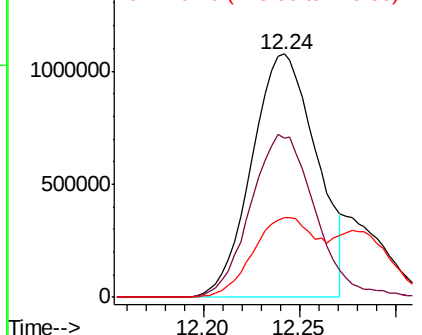
Tot Ion:117 Resp: 2508711
Ion Ratio Lower Upper
117 100
82 66.9 52.2 78.4
119 32.9 43.4 65.2#

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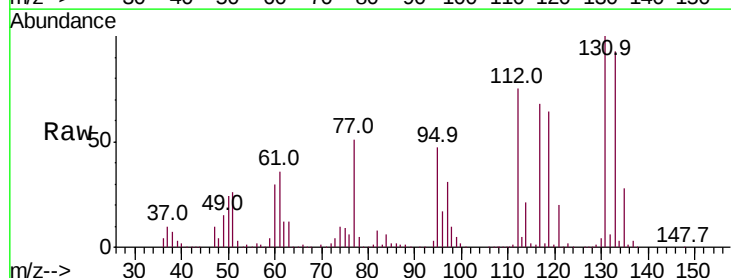


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

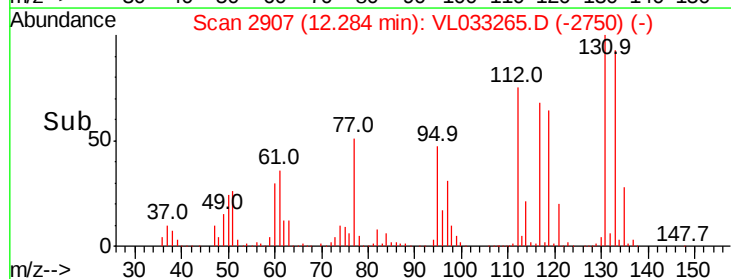
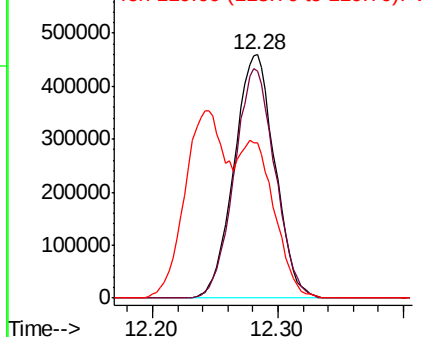


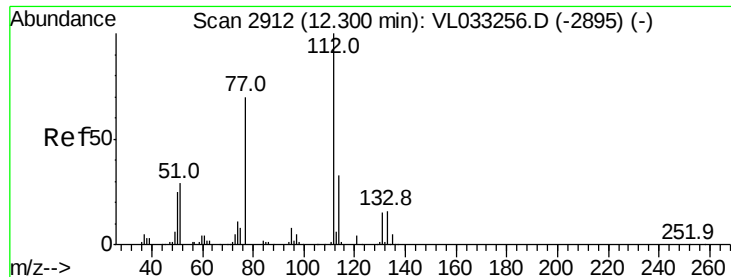
#56
1,1,1,2-Tetrachloroethane
Concen: 9.875 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. 0.01 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion:131 Resp: 1037080
Ion Ratio Lower Upper
131 100
133 94.4 76.3 114.5
119 137.2 109.2 163.8



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: 9.565 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion:112 Resp: 1759670

Ion Ratio Lower Upper

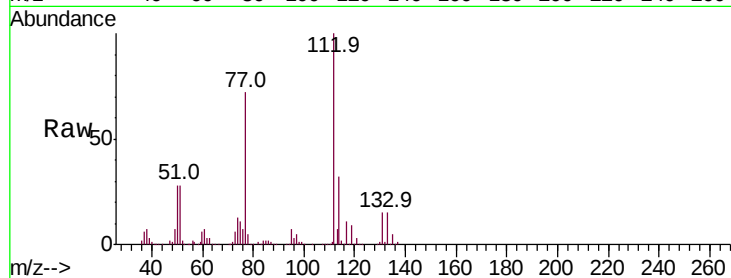
112 100

77 71.3 56.8 85.2

114 32.1 29.5 36.1

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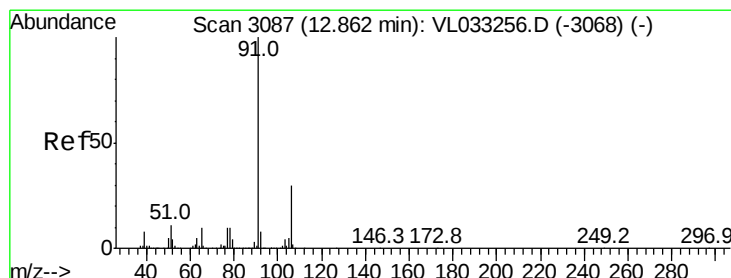
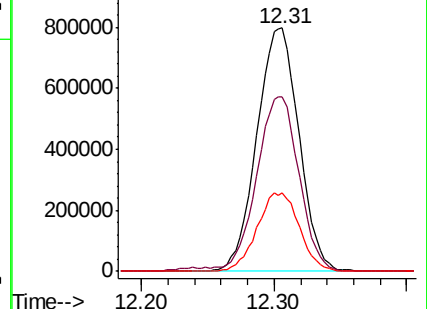
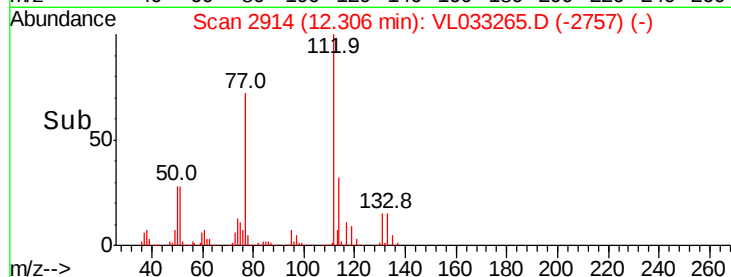
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.849 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VL033265.D

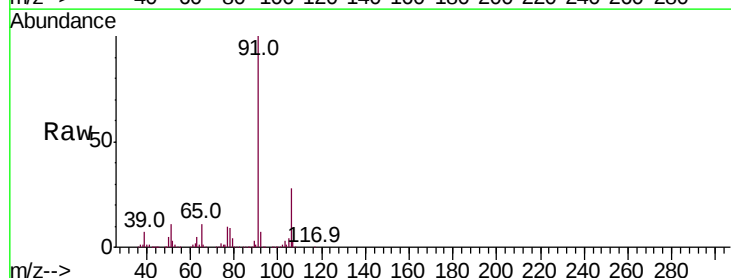
Acq: 8 Mar 2019 19:35

Tgt Ion: 91 Resp: 3343305

Ion Ratio Lower Upper

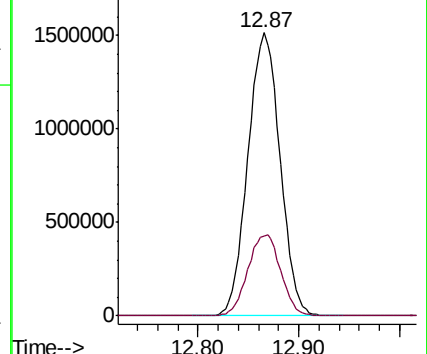
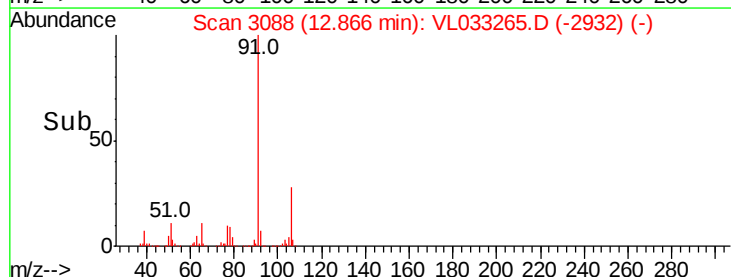
91 100

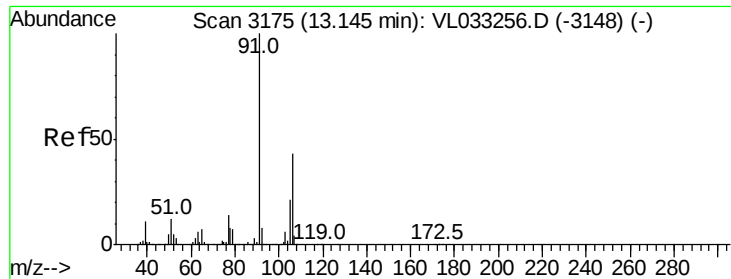
106 28.2 23.7 35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





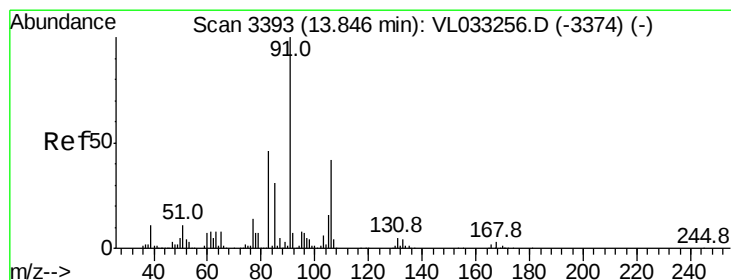
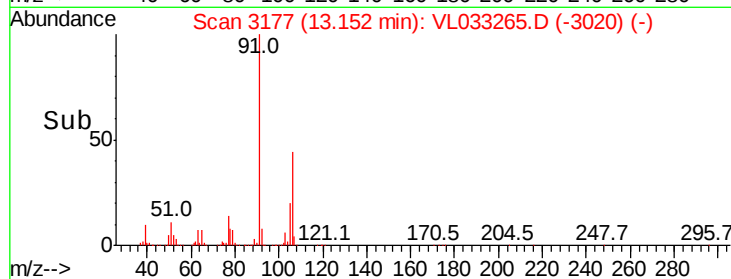
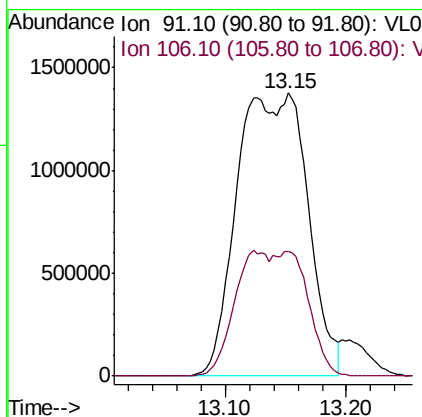
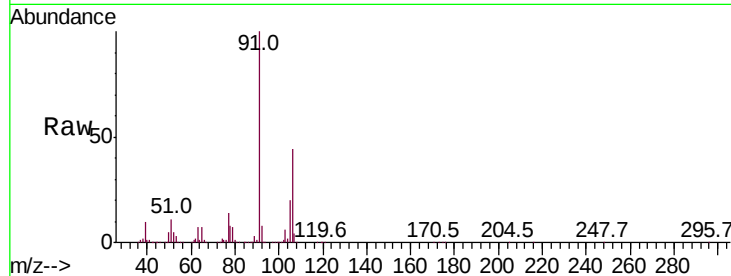
#59
m/p-Xylene
Concen: 18.067 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.01 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion: 91 Resp: 5551741
Ion Ratio Lower Upper
91 100
106 0.0 35.0 52.4#

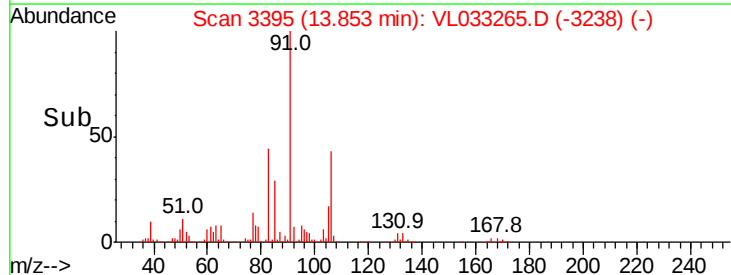
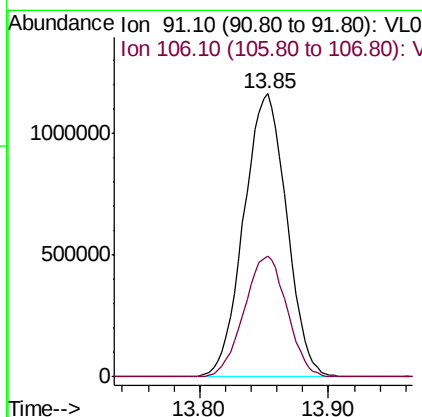
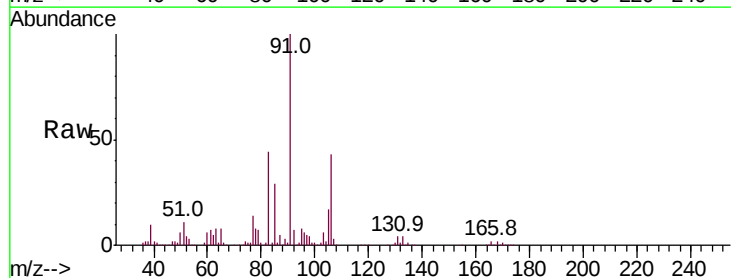
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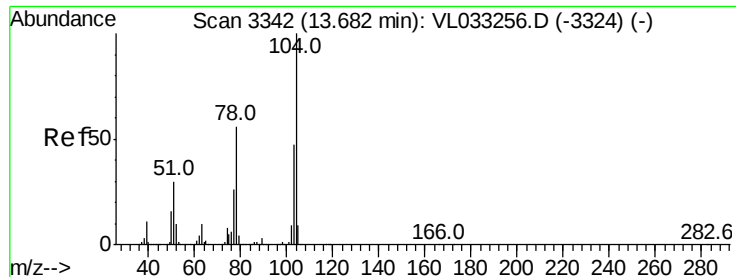
MMDadoda
3/11/2019 10:10:23 AM



#60
o-Xylene
Concen: 9.067 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.01 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion: 91 Resp: 2697790
Ion Ratio Lower Upper
91 100
106 42.7 21.1 63.4





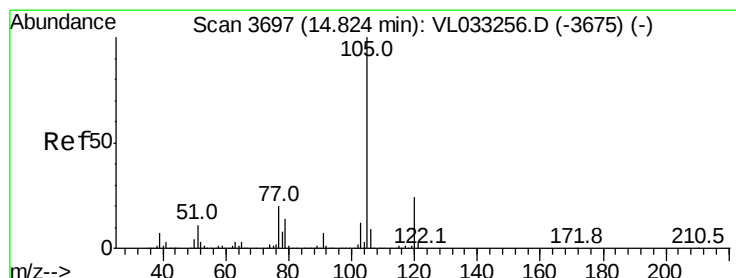
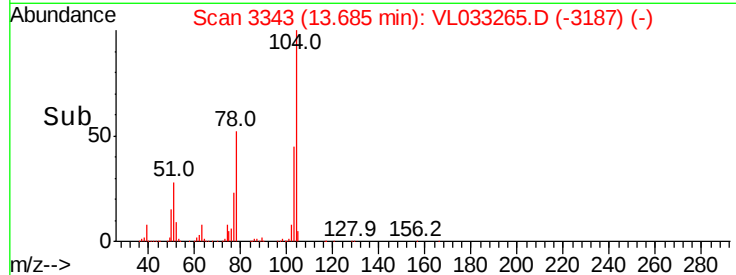
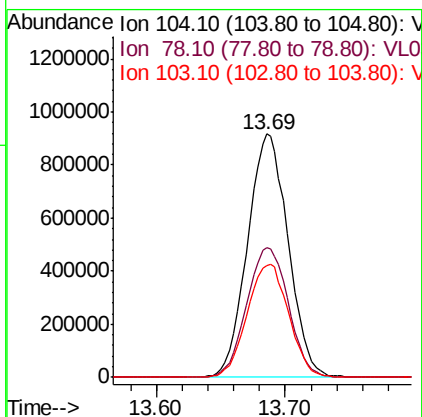
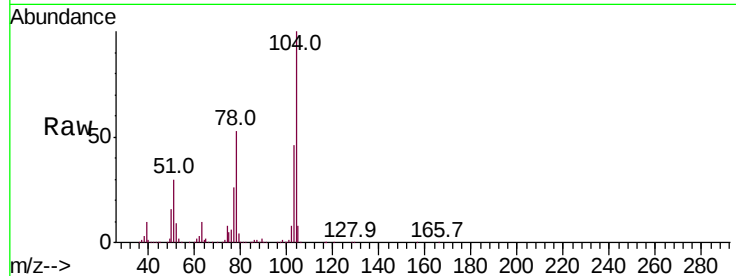
#61
Stvrene
Concen: 9.931 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.9	65.9
103	47.7	38.3	57.5

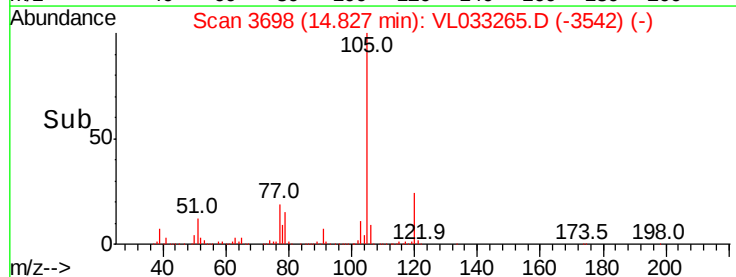
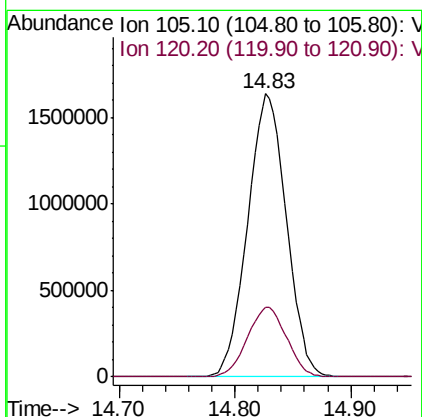
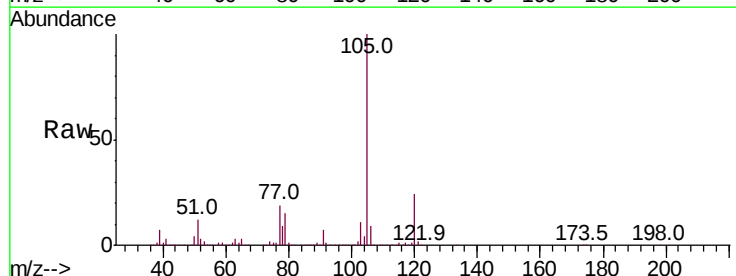
Manual Integrations
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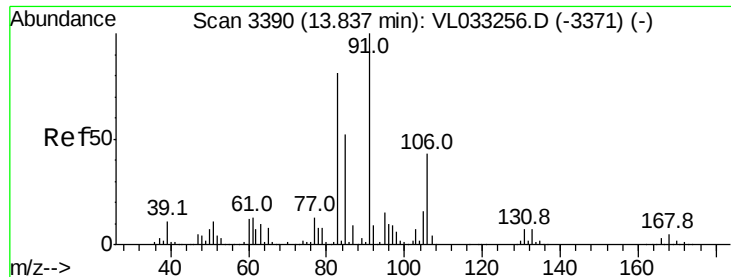
MMDadoda
3/11/2019 10:10:23 AM



#62
Isopropylbenzene
Concen: 9.566 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.7	29.5





#63

1,1,2,2-Tetrachloroethane

Concen: 9.574 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion: 83 Resp: 1832303

Ion Ratio Lower Upper

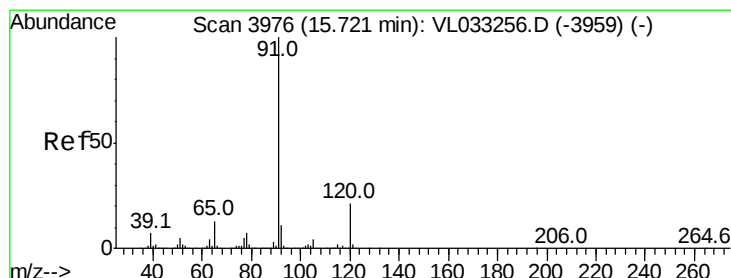
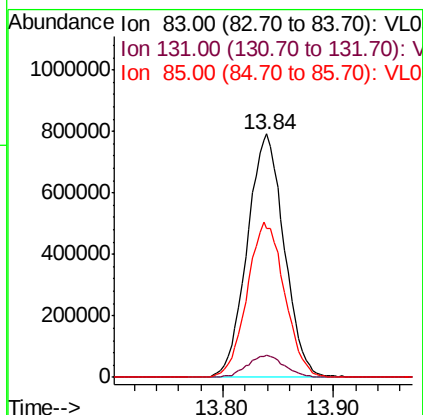
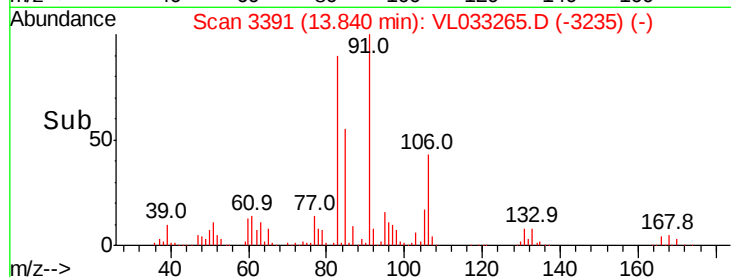
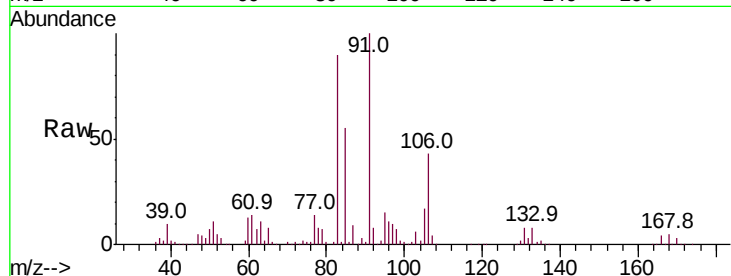
83 100

131 9.0 4.7 14.0

85 64.8 32.4 97.0

Manual Integrations
APPROVED

MMDadoda
3/11/2019 10:10:23 AM



#64

n-propylbenzene

Concen: 9.869 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. 0.00 min

Lab File: VL033265.D

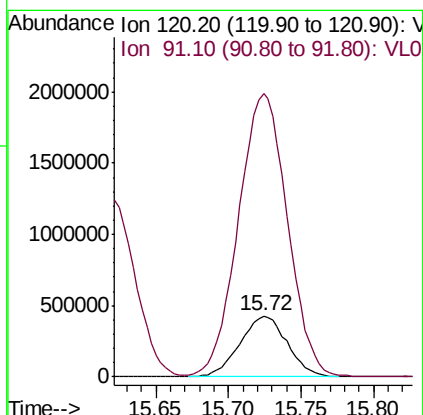
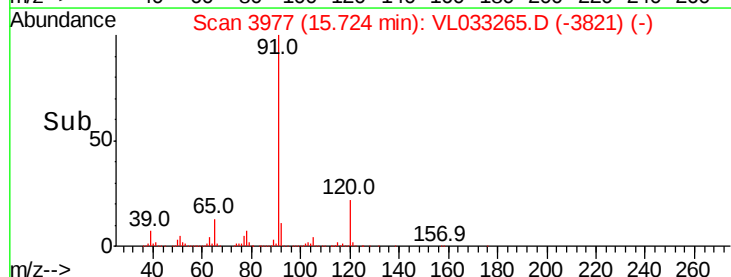
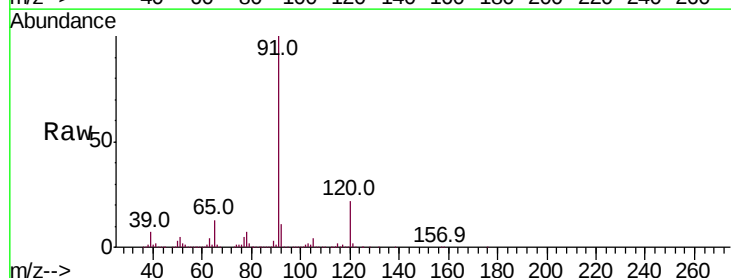
Acq: 8 Mar 2019 19:35

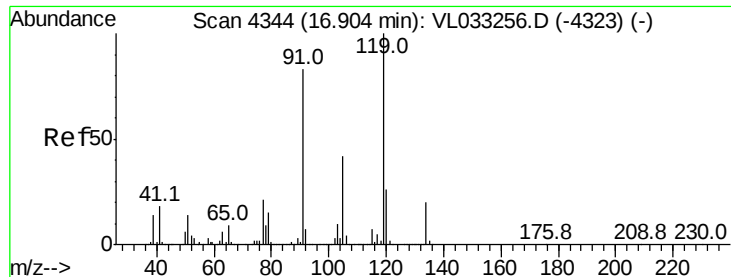
Tgt Ion:120 Resp: 958835

Ion Ratio Lower Upper

120 100

91 488.9 392.8 589.2





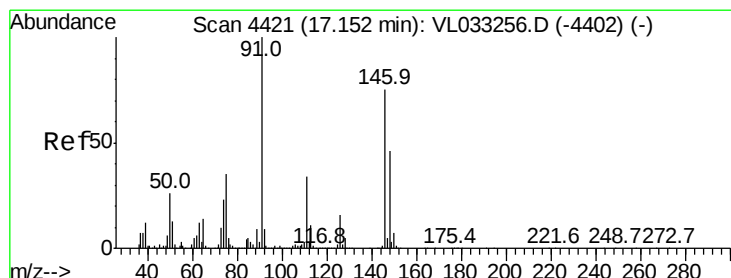
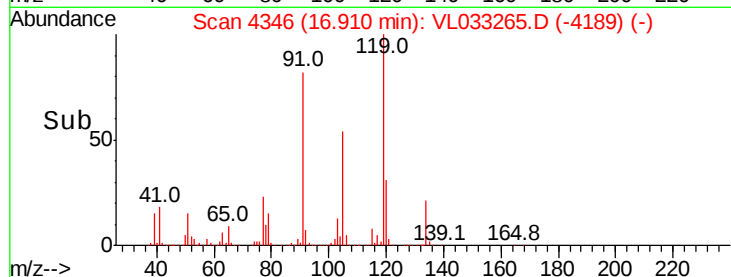
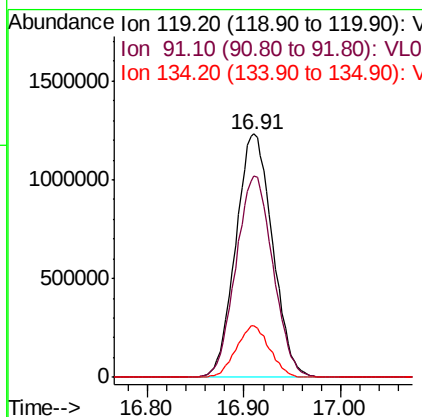
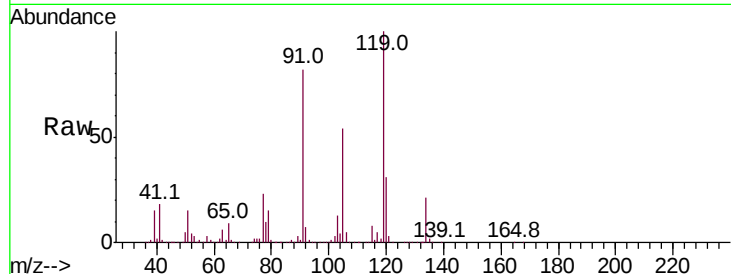
#65
tert-Butylbenzene
Concen: 9.719 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. 0.01 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion:119 Resp: 3247849
Ion Ratio Lower Upper
119 100
91 83.7 67.3 100.9
134 19.4 15.5 23.3

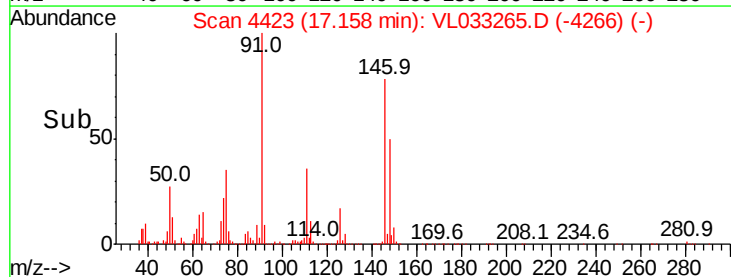
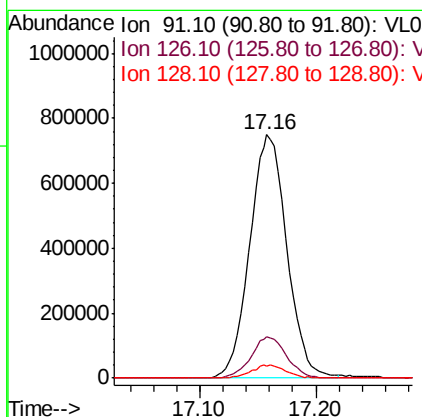
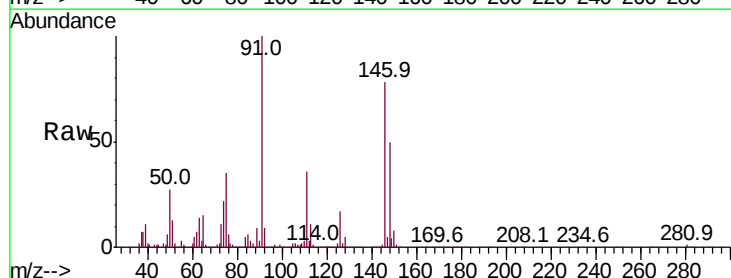
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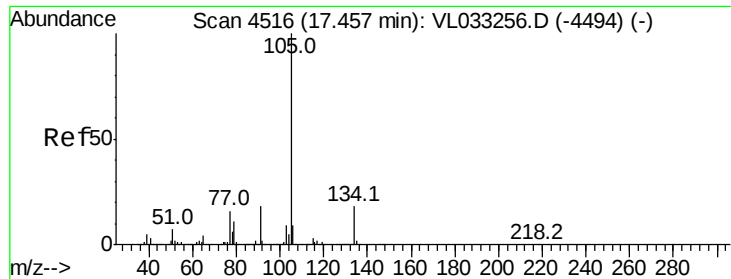
MMDadoda
3/11/2019 10:10:23 AM



#66
Benzyl Chloride
Concen: 13.336 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. 0.01 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion: 91 Resp: 1669759
Ion Ratio Lower Upper
91 100
126 16.2 13.0 19.6
128 5.2 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.757 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion:105 Resp: 4635369

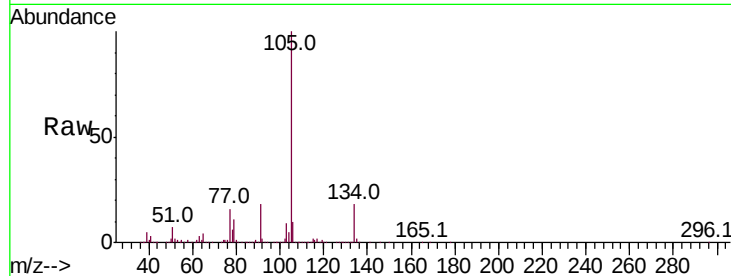
Ion Ratio Lower Upper

105 100

134 17.8 14.0 21.0

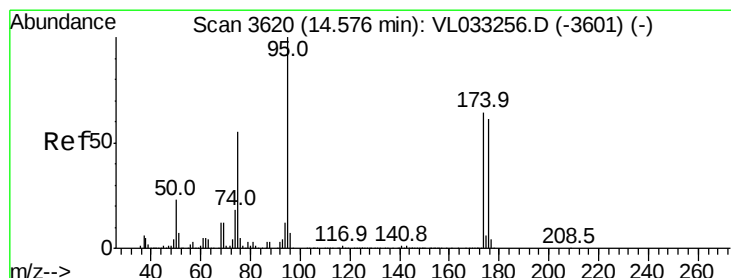
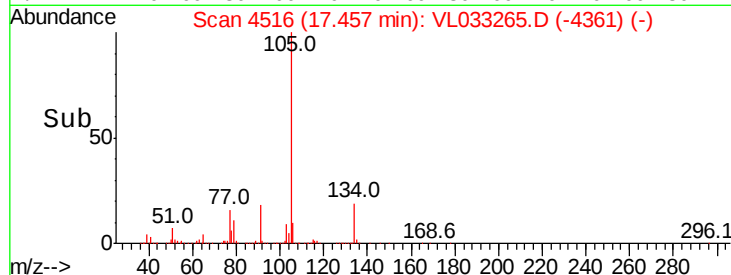
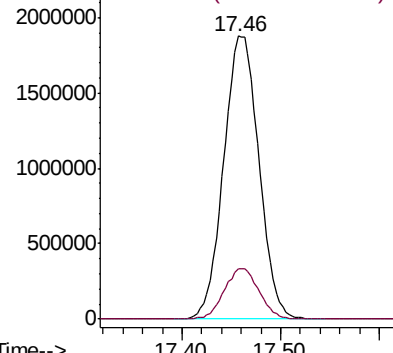
Manual Integrations
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3/11/2019 10:10:23 AM



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: 9.870 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

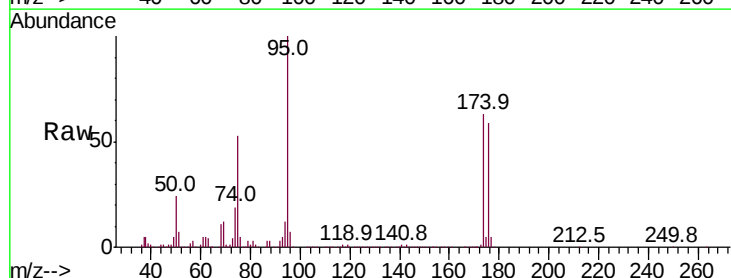
Tgt Ion: 95 Resp: 1987117

Ion Ratio Lower Upper

95 100

174 63.5 51.7 77.5

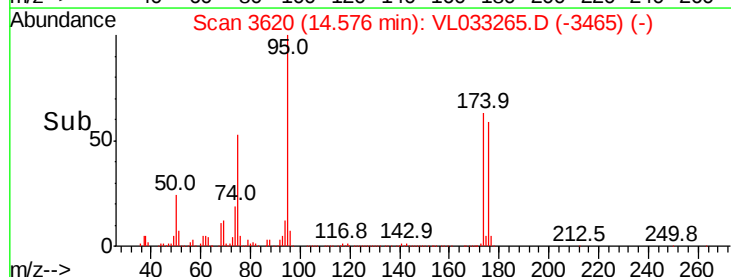
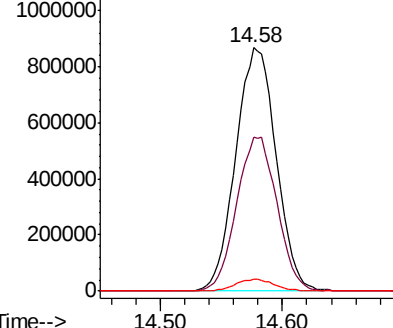
175 4.7 3.8 5.8

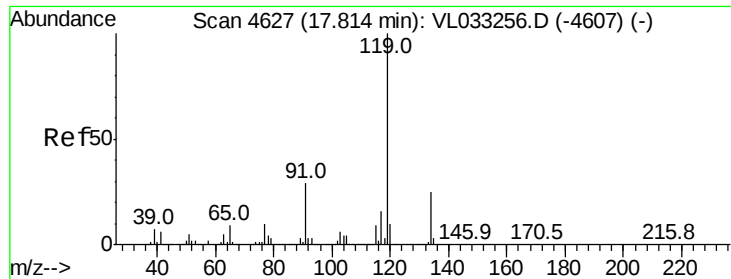


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





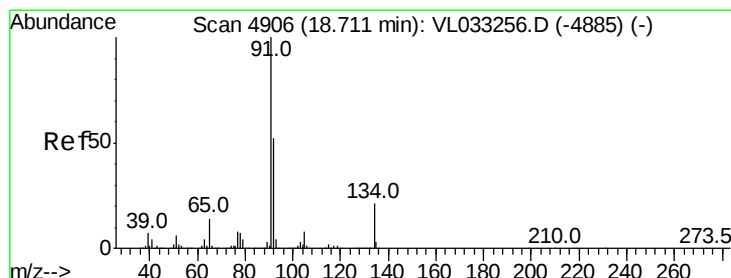
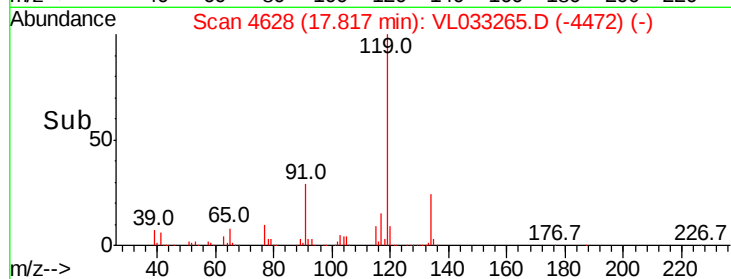
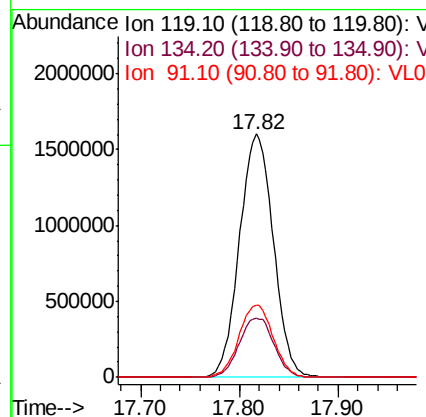
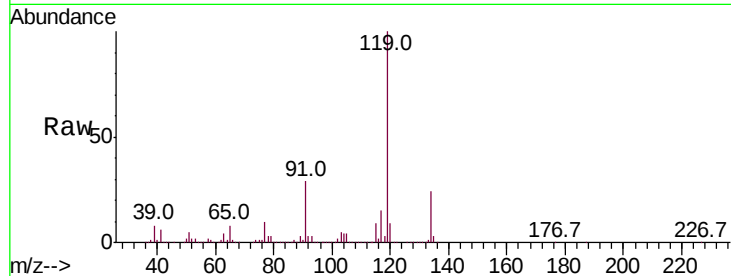
#69
p-Isopropyltoluene
Concen: 9.888 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	19.8	29.8
91	30.3	23.9	35.9

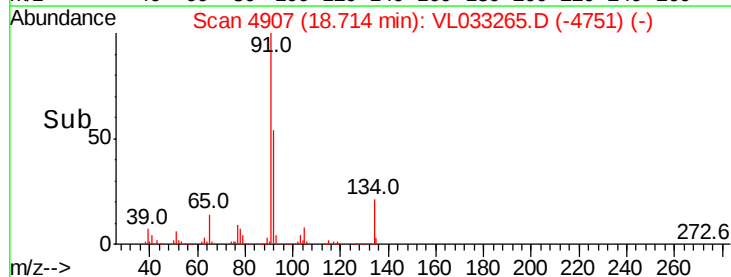
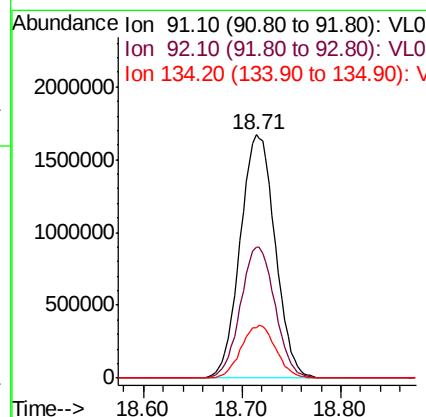
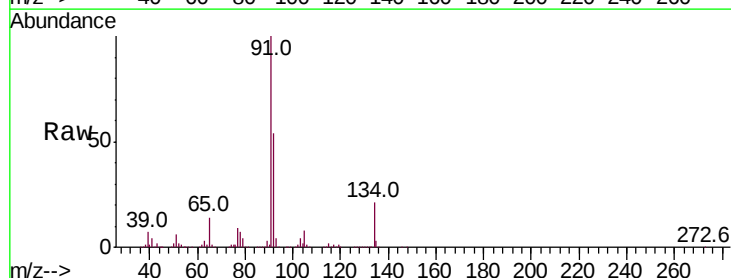
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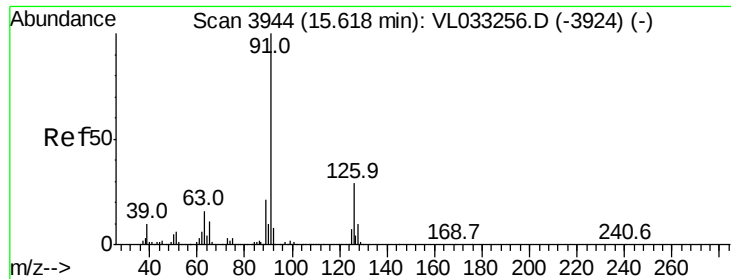
MMDadoda
3/11/2019 10:10:23 AM



#70
n-Butylbenzene
Concen: 9.797 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.6	63.8
134	21.6	17.3	25.9





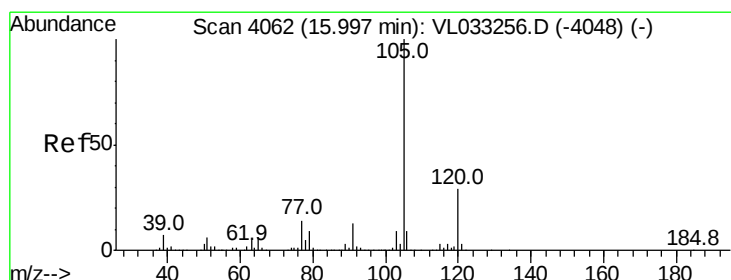
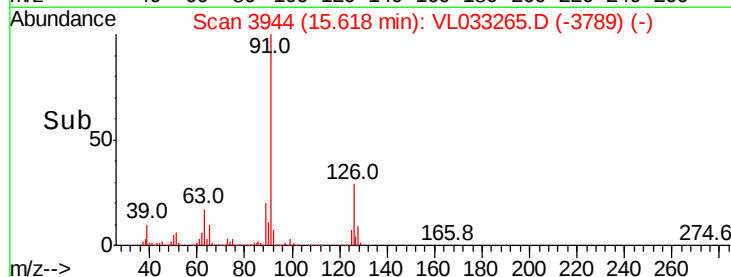
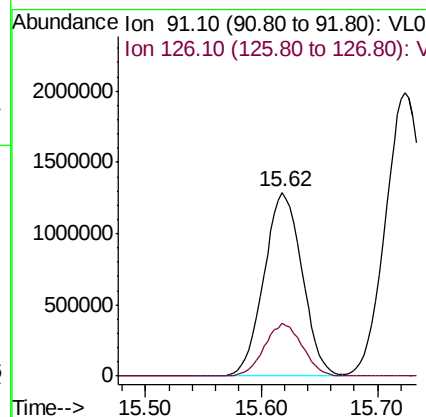
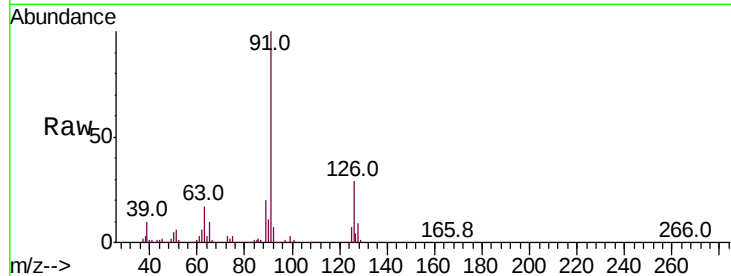
#71
 2-Chlorotoluene
 Concen: 9.912 ppbv
 RT: 15.62 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Tot Ion: 91 Resp: 2946660
 Ion Ratio Lower Upper
 91 100
 126 28.7 11.7 46.9

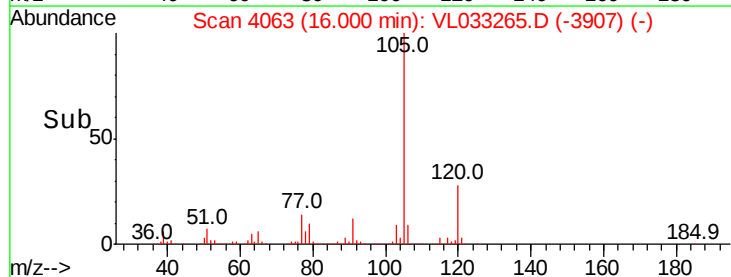
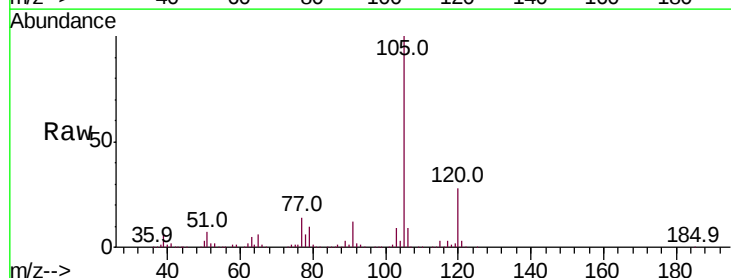
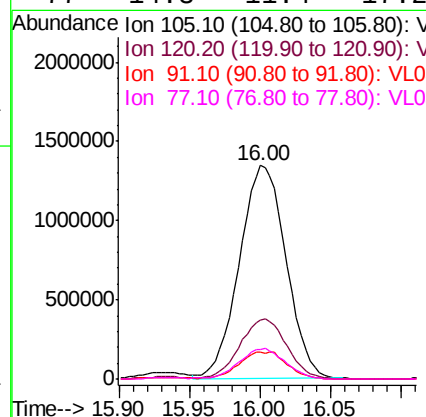
Manual Integrations
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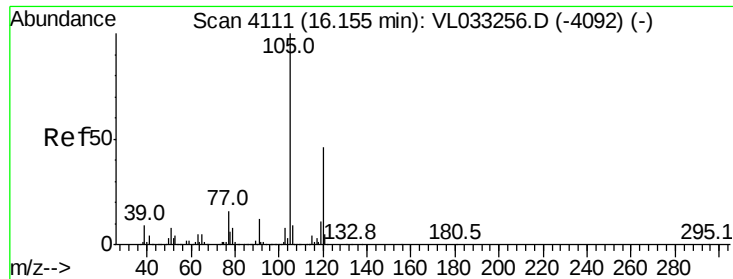
MMDadoda
 3/11/2019 10:10:23 AM



#72
 4-Ethyltoluene
 Concen: 10.060 ppbv
 RT: 16.00 min Scan# 4063
 Delta R.T. 0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Tgt Ion:105 Resp: 3116527
 Ion Ratio Lower Upper
 105 100
 120 28.3 22.9 34.3
 91 13.0 10.4 15.6
 77 14.3 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 10.067 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion:105 Resp: 2971409

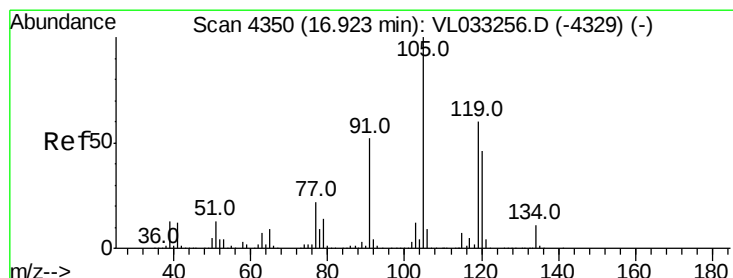
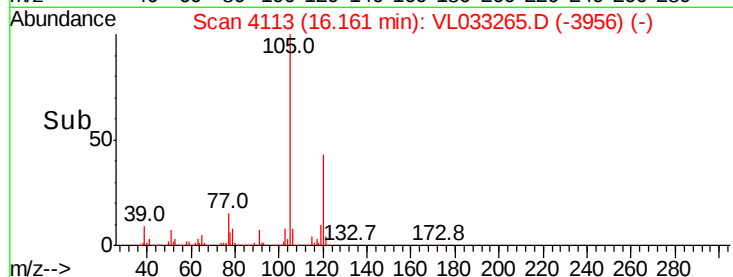
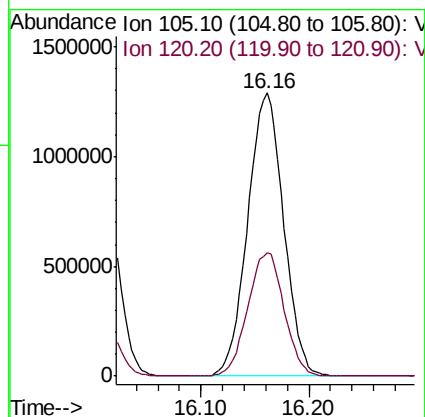
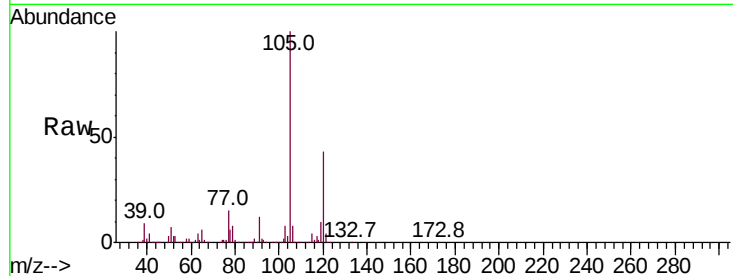
Ion Ratio Lower Upper

105 100

120 43.4 36.6 55.0

Manual Integrations
APPROVED

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3/11/2019 10:10:23 AM



#74

1,2,4-Trimethylbenzene

Concen: 9.739 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.01 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Tgt Ion:105 Resp: 2991486

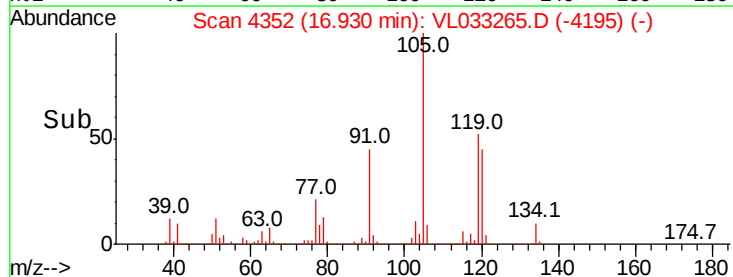
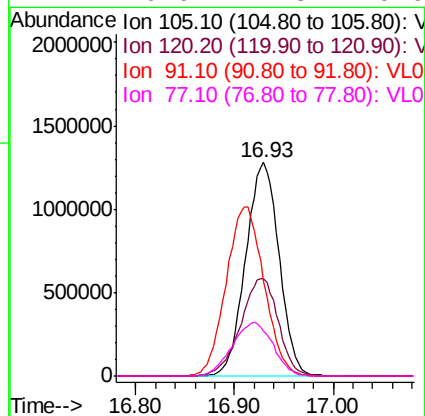
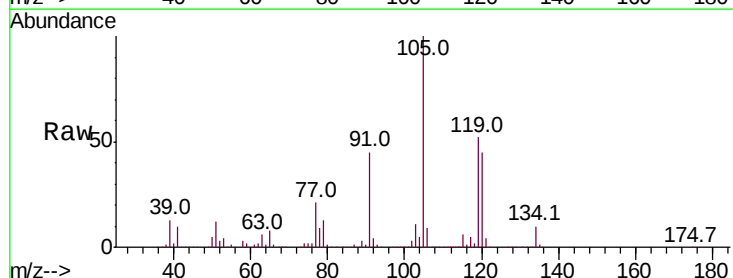
Ion Ratio Lower Upper

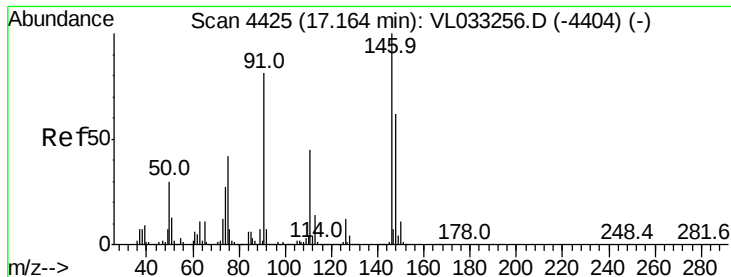
105 100

120 45.4 36.7 55.1

91 44.5 42.1 63.1

77 20.9 17.8 26.6





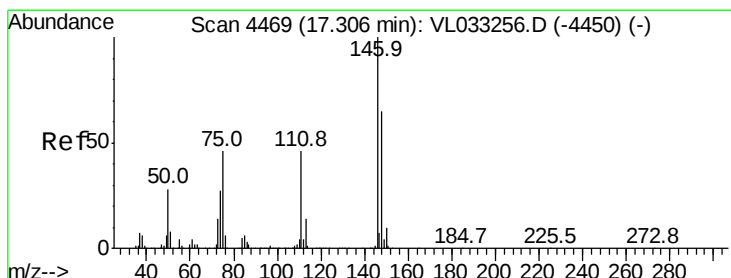
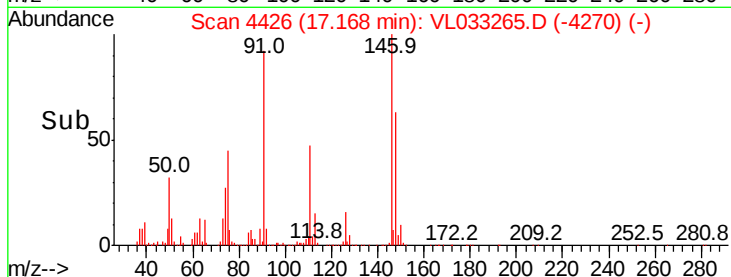
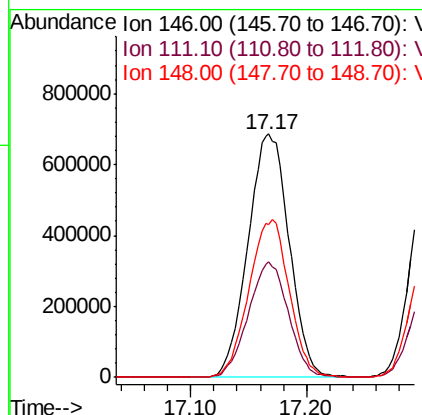
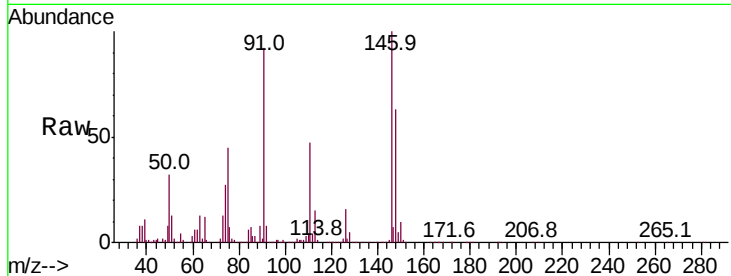
#75
 1,3-Dichlorobenzene
 Concen: 9.318 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. 0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Tot Ion:146 Resp: 1691327
 Ion Ratio Lower Upper
 146 100
 111 46.1 22.9 68.7
 148 63.8 31.6 94.7

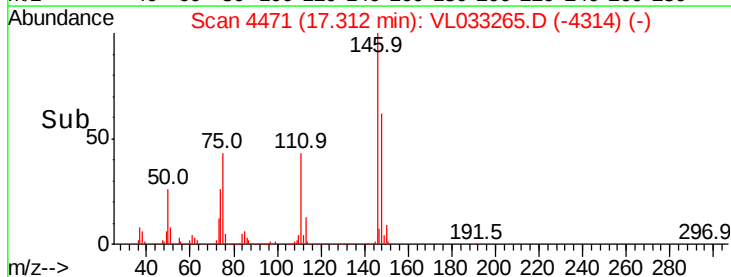
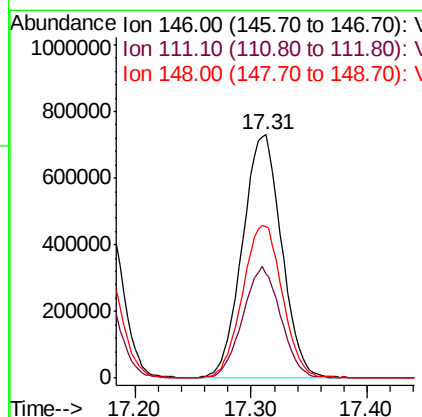
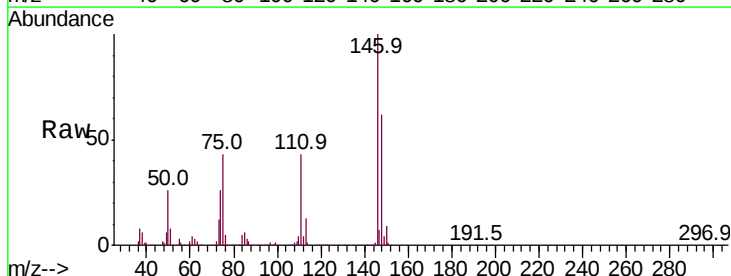
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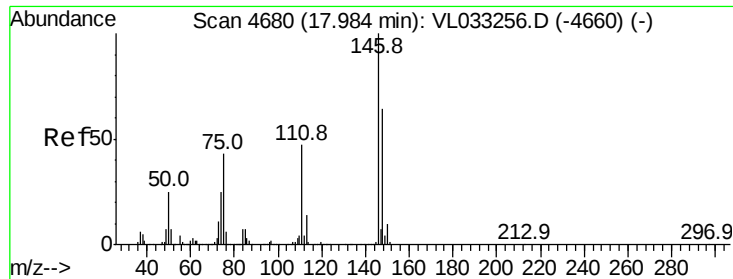
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#76
 1,4-Dichlorobenzene
 Concen: 9.575 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. 0.01 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Tgt Ion:146 Resp: 1701930
 Ion Ratio Lower Upper
 146 100
 111 44.8 22.6 67.7
 148 64.7 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 9.525 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

Instrument :

MSVOA_L

ClientSampleId :

VL0308ABS01

Tot Ion:146 Resp: 1664383

Ion Ratio Lower Upper

146 100

111 47.3 23.8 71.2

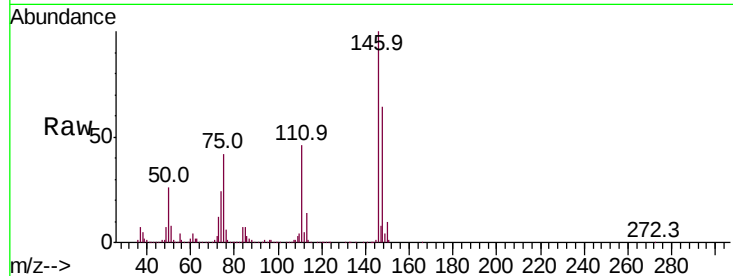
148 64.0 32.0 96.2

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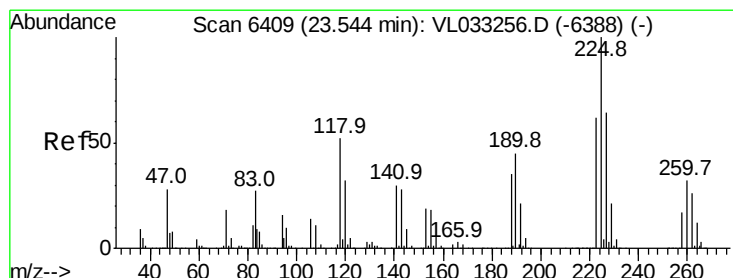
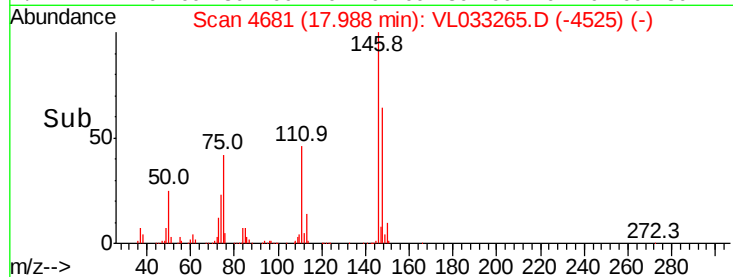
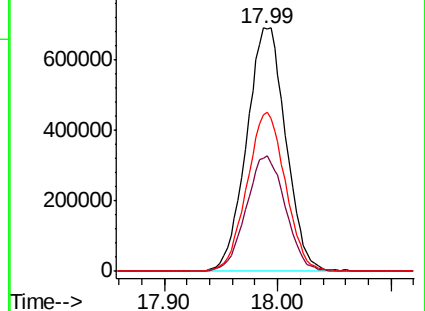
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.152 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033265.D

Acq: 8 Mar 2019 19:35

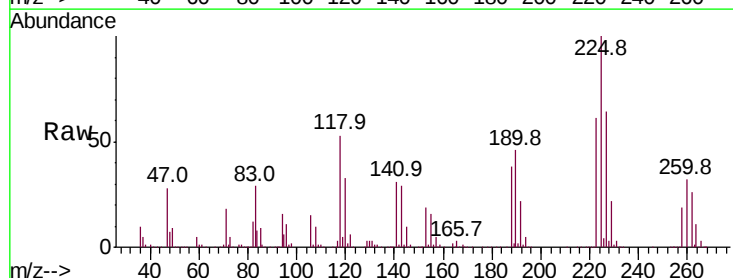
Tgt Ion:225 Resp: 946743

Ion Ratio Lower Upper

225 100

223 62.7 50.4 75.6

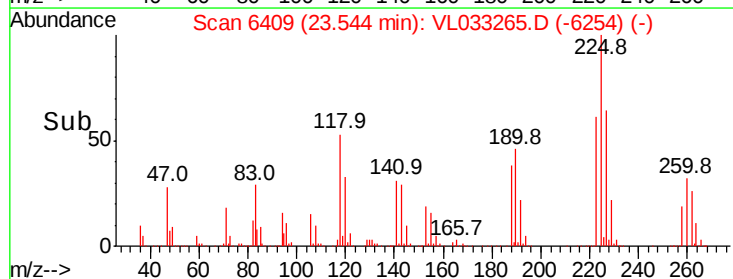
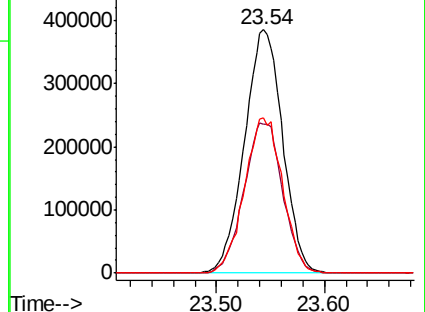
227 63.6 51.4 77.0

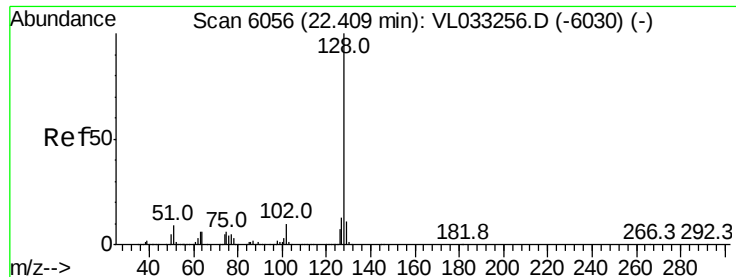


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





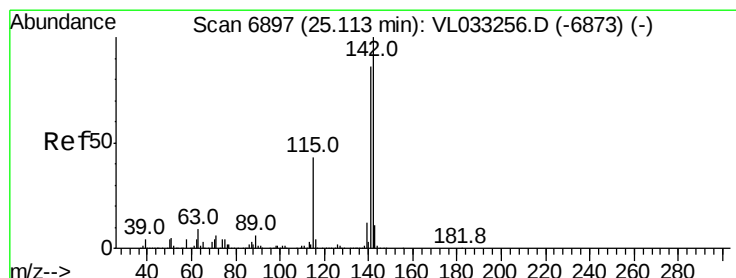
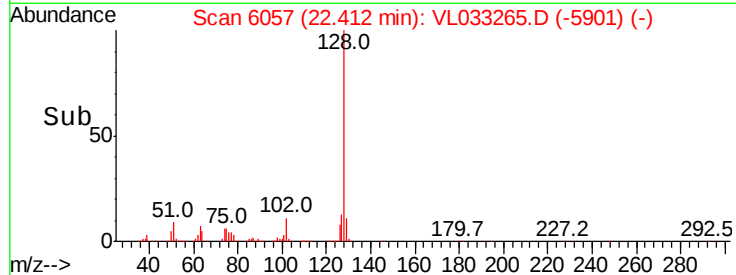
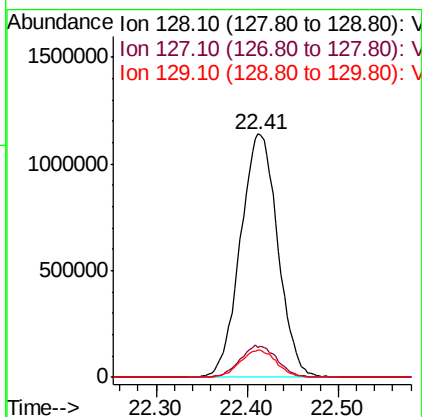
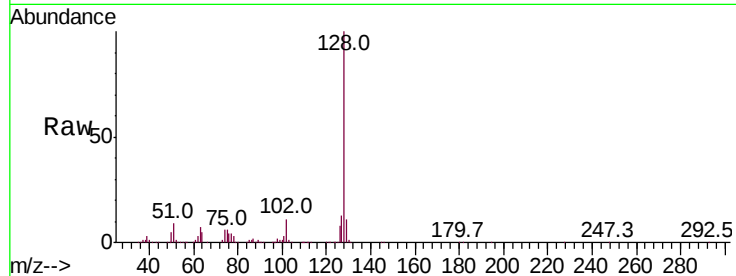
#79
Naphthalene
Concen: 9.711 ppbv
RT: 22.41 min Scan# 6057
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Instrument :
MSVOA_L
ClientSampleId :
VL0308ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.3	15.5
129	11.1	8.6	13.0

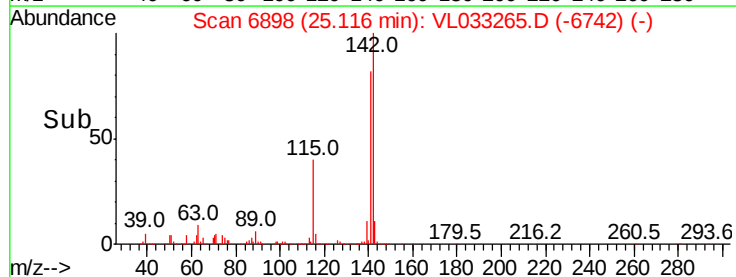
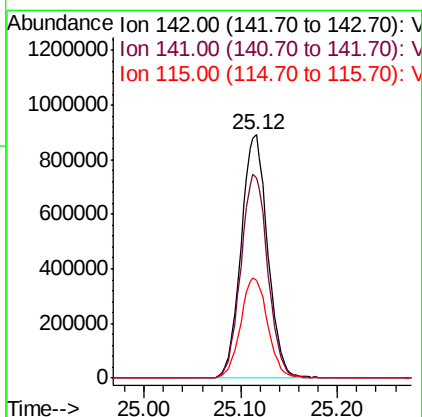
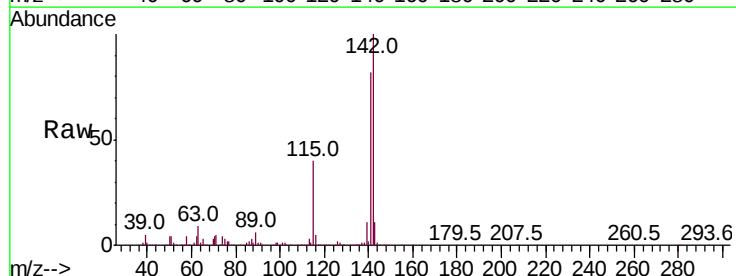
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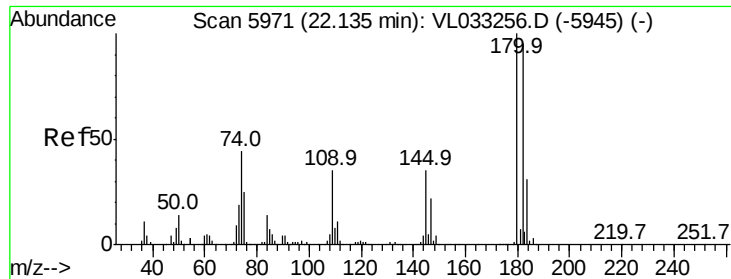
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#80
Naphthalene, 2-methyl-
Concen: 20.749 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. 0.00 min
Lab File: VL033265.D
Acq: 8 Mar 2019 19:35

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.6	101.4
115	42.1	33.9	50.9





#81
 1,2,4-Trichlorobenzene
 Concen: 8.865 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033265.D
 Acq: 8 Mar 2019 19:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0308ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.3	114.5
184	30.7	24.6	36.8

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