

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033175.D
 Acq On : 6 Feb 2019 5:42
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:21:45 PM

Quant Time: Feb 20 06:01:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 2019
 QLast Update : Wed Feb 20 05:04:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	874722	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2634827	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2731871	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2046404	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2359990	14.112	ppbv	97
3) Chlorodifluoromethane	3.01	51	1501868	14.260	ppbv	99
4) Chloromethane	3.17	50	805868	14.490	ppbv	99
5) Vinyl Chloride	3.29	62	785398	13.514	ppbv	96
6) Bromomethane	3.52	94	465483	14.584	ppbv	99
7) Chloroethane	3.60	64	279795	14.738	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1770063	13.533	ppbv	100
9) Propene	3.04	41	710356	13.962	ppbv	99
10) Heptane	8.25	43	2166858	14.077	ppbv	99
11) Trichlorofluoromethane	4.00	101	1959057	14.470	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1312243	13.985	ppbv	99
13) Ethanol	3.65	45	154333m	9.096	ppbv	
14) Bromoethene	3.79	108	588875	14.555	ppbv	99
15) Acetone	3.90	43	1324952	13.445	ppbv	99
16) 1,3-Butadiene	3.36	39	666803	14.254	ppbv	97
17) tert-Butyl alcohol	4.36	59	239685	12.757	ppbv	100
18) 1,1-Dichloroethene	4.35	96	606901	14.449	ppbv	97
19) Isopropyl Alcohol	4.02	45	825823	12.356	ppbv	99
20) Methylene Chloride	4.41	84	517596	13.204	ppbv	95
21) Allyl Chloride	4.48	41	979064	15.046	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	613019	15.028	ppbv	95
23) Vinyl Acetate	5.16	43	2537769	14.858	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1698810	14.062	ppbv	99
25) Ethyl Acetate	5.77	43	2880484	13.000	ppbv	100
26) Hexane	5.78	57	1304325	12.539	ppbv	99
27) Carbon Disulfide	4.62	76	1549475	16.260	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2005192	14.107	ppbv	100
29) Chloroform	5.85	83	2151195	13.495	ppbv	99
30) Cyclohexane	7.25	84	1422214	14.736	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1428661	13.722	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2535489	14.445	ppbv	99
34) 2-Butanone	5.33	43	2014071	12.051	ppbv	99
35) Carbon Tetrachloride	7.14	117	2619475	13.018	ppbv	97
36) Benzene	7.01	78	3476616	13.019	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1988231	13.435	ppbv	99
38) Trichloroethene	7.97	130	1233029	10.782	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1325220	12.566	ppbv	99
40) 1,4-Dioxane	7.96	88	409914	10.695	ppbv	86
41) Tetrahydrofuran	6.15	42	1217850	11.772	ppbv	99
42) Bromodichloromethane	7.92	83	2814454	13.124	ppbv	100
43) Methyl Methacrylate	8.14	69	1426848	13.309	ppbv	100

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Quant Time: Feb 20 06:01:06 2019
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5429945	12.000	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1860354	15.620	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	2089708	13.775	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1358660	12.414	ppbv	97
48) Dibromochloromethane	10.46	129	2401096	13.936	ppbv	100
49) Bromoform	13.21	173	2119381	14.298	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3369937	12.574	ppbv	100
51) 2-Hexanone	10.27	43	2868565	13.575	ppbv #	100
52) Tetrachloroethene	11.38	164	1198978	11.687	ppbv	98
53) Toluene	9.96	91	3907363	12.357	ppbv	100
54) 1,2-Dibromoethane	10.77	107	2224343	12.961	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1620587	12.735	ppbv	95
57) Chlorobenzene	12.31	112	2856804	11.812	ppbv	98
58) Ethyl Benzene	12.87	91	5475317	12.208	ppbv	100
59) m/p-Xylene	13.16	91	8842139m	23.701	ppbv	
60) o-Xylene	13.86	91	4232461	11.634	ppbv	100
61) Styrene	13.69	104	3425401	12.473	ppbv	99
62) Isopropylbenzene	14.83	105	6117756	11.919	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2942684	10.349	ppbv	98
64) n-propylbenzene	15.73	120	1579943	12.108	ppbv	97
65) tert-Butylbenzene	16.92	119	5157040	11.539	ppbv	99
66) Benzyl Chloride	17.17	91	2894279	18.119	ppbv	100
67) sec-Butylbenzene	17.47	105	7491704	11.547	ppbv	100
69) p-Isopropyltoluene	17.83	119	6199936	11.474	ppbv	100
70) n-Butylbenzene	18.72	91	6564513	11.261	ppbv	99
71) 2-Chlorotoluene	15.62	91	4821553	11.955	ppbv	99
72) 4-Ethyltoluene	16.01	105	5160886	12.300	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4881838	12.166	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4766705	11.453	ppbv	94
75) 1,3-Dichlorobenzene	17.18	146	2780495	11.584	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2864726	12.046	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2798821	11.799	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1460759	12.385	ppbv	100
79) Naphthalene	22.42	128	5278913	11.803	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	2530171	11.185	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	2581000	11.360	ppbv	99

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

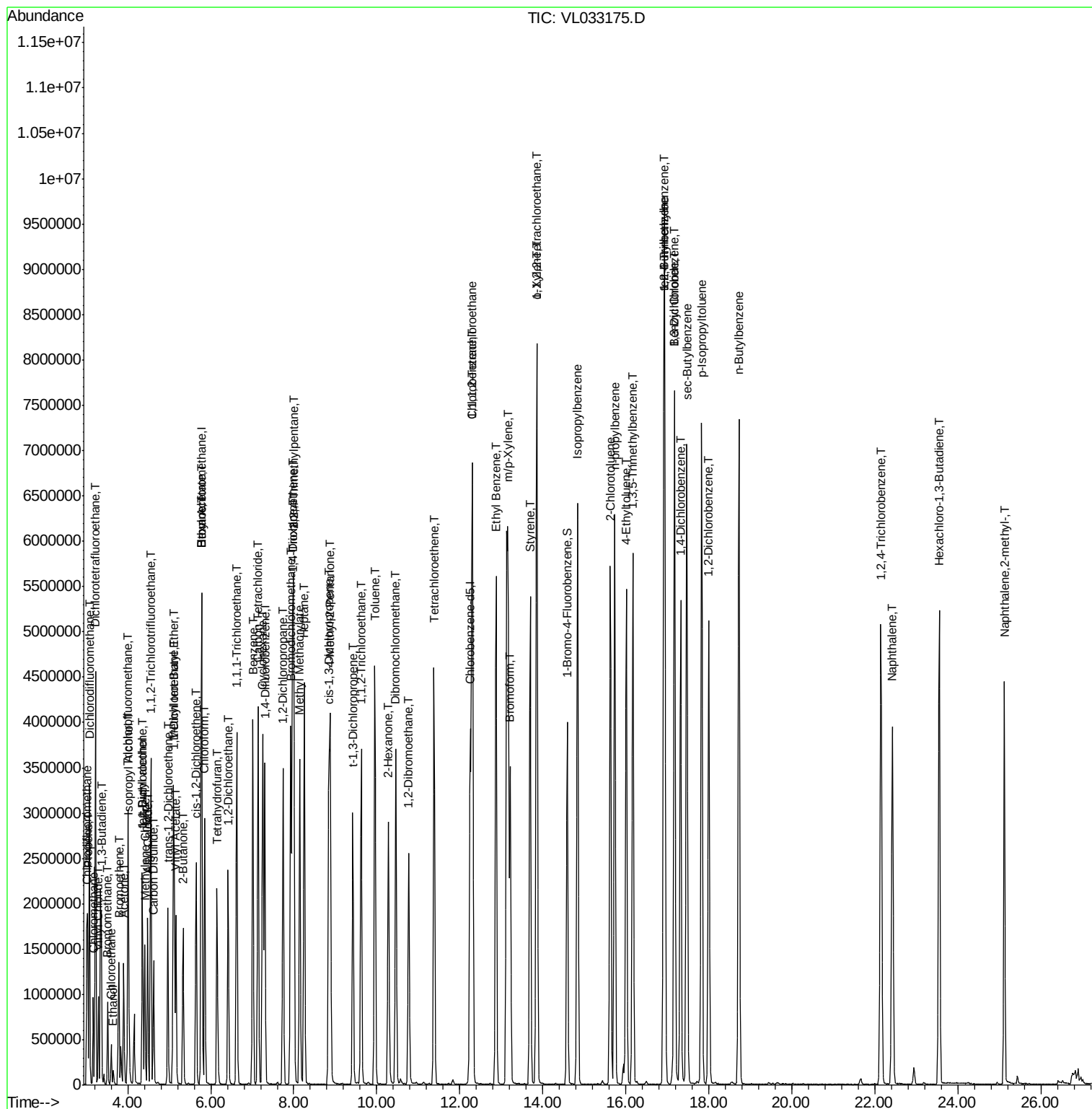
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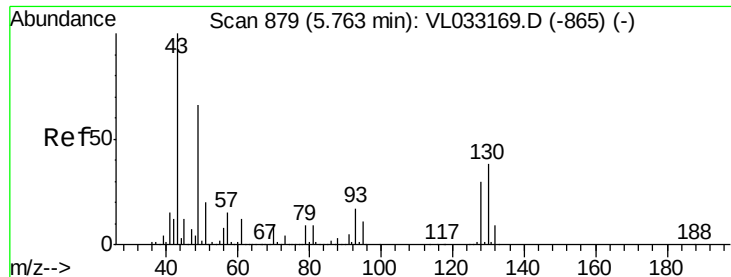
Instrument :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 20 05:04:48 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 49 Resp: 874722

Ion Ratio Lower Upper

49 100

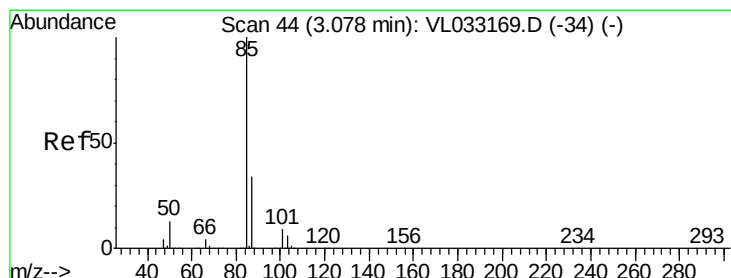
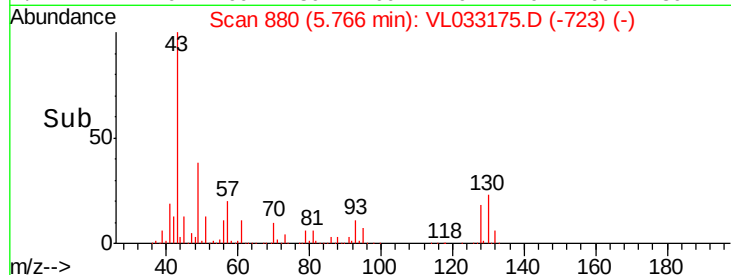
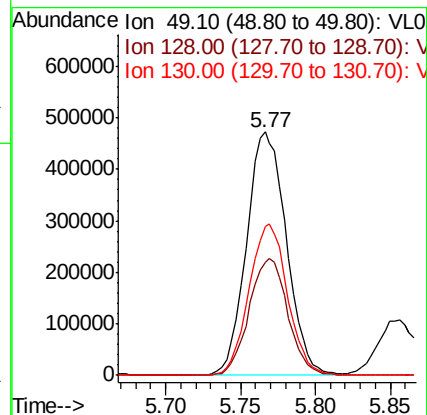
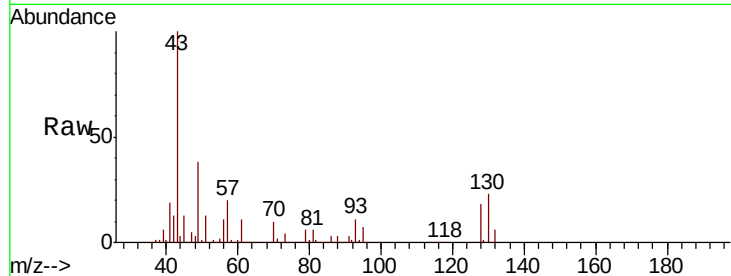
128 46.9 23.6 71.0

130 60.5 30.3 91.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 14.112 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033175.D

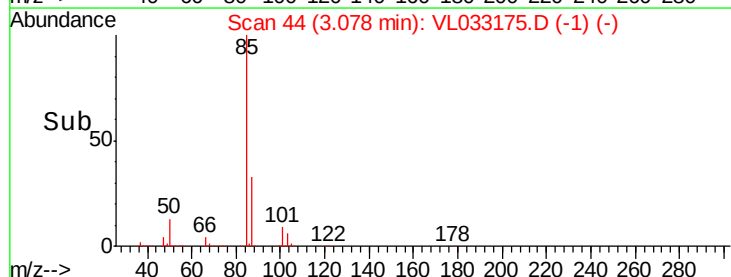
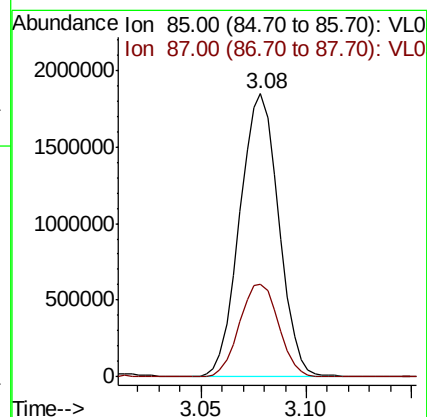
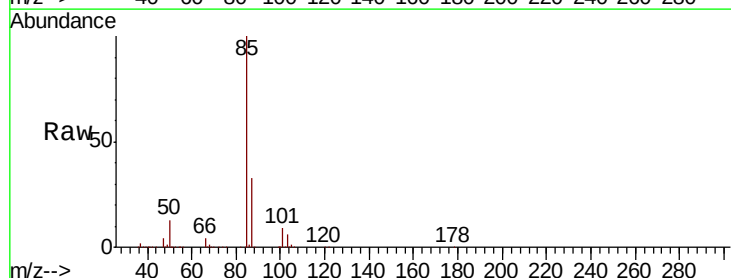
Acq: 6 Feb 2019 5:42

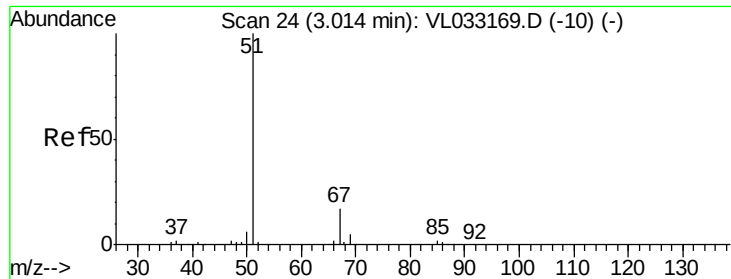
Tgt Ion: 85 Resp: 2359990

Ion Ratio Lower Upper

85 100

87 32.8 27.4 41.2





#3

Chlorodifluoromethane

Concen: 14.260 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 51 Resp: 1501868

Ion Ratio Lower Upper

51 100

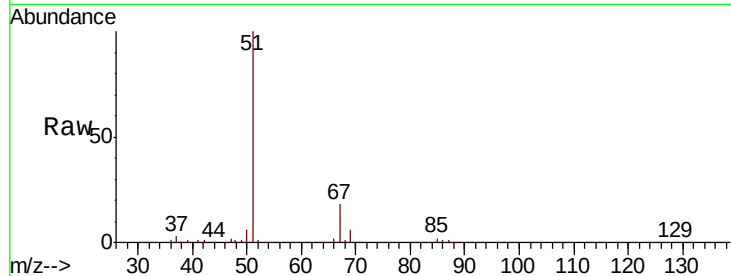
67 17.9 14.0 21.0

Manual Integrations

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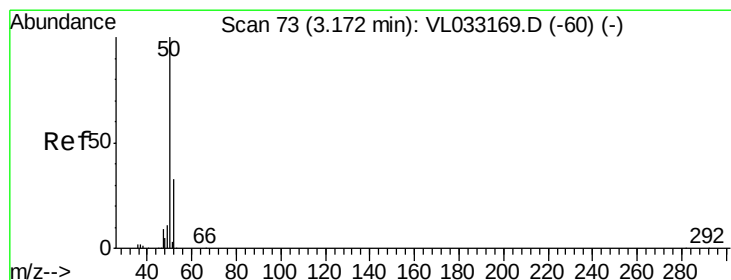
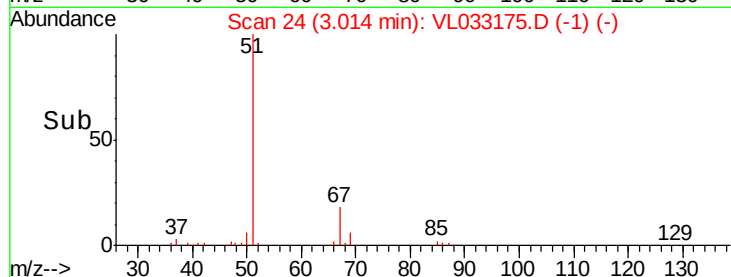
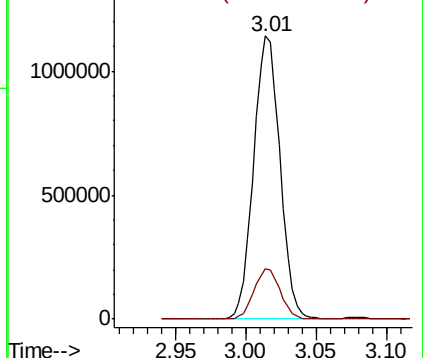
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.490 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033175.D

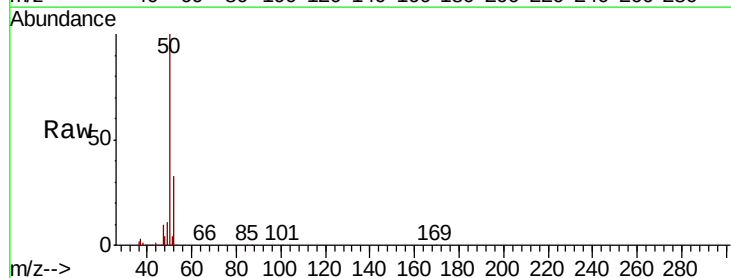
Acq: 6 Feb 2019 5:42

Tgt Ion: 50 Resp: 805868

Ion Ratio Lower Upper

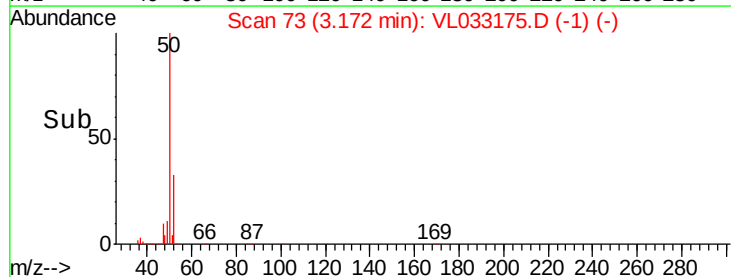
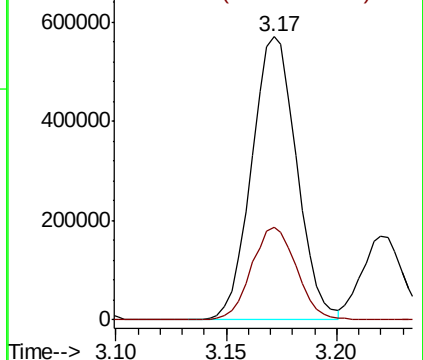
50 100

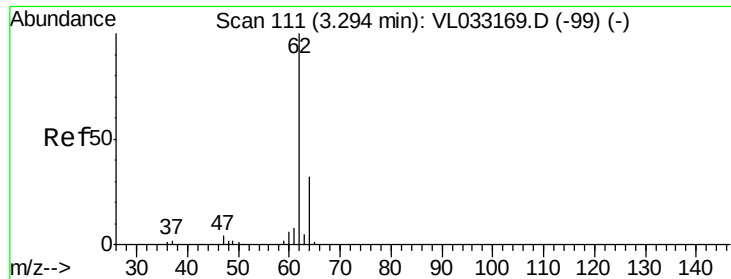
52 32.6 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.514 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 785398

Ion Ratio Lower Upper

62 100

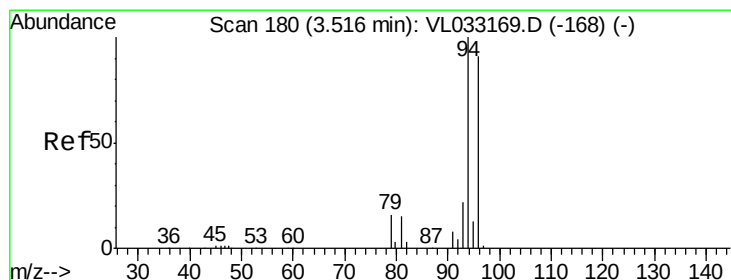
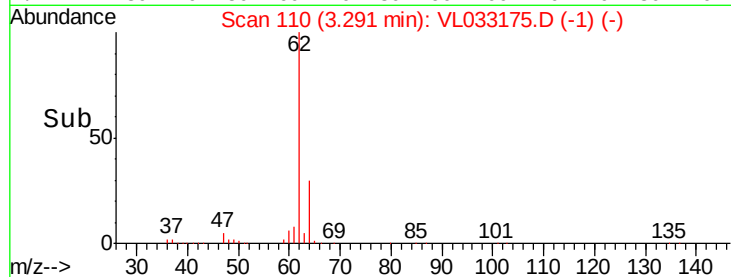
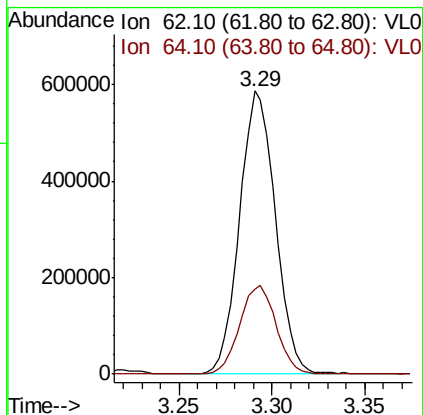
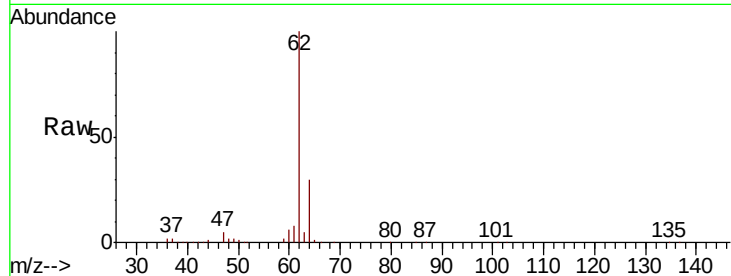
64 30.0 25.6 38.4

Manual Integrations

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#6

Bromomethane

Concen: 14.584 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033175.D

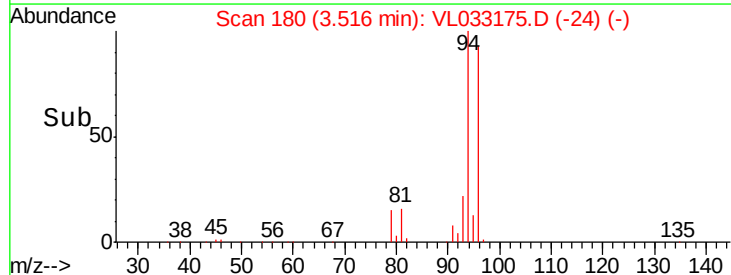
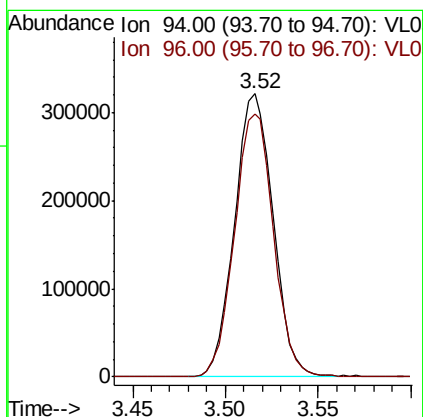
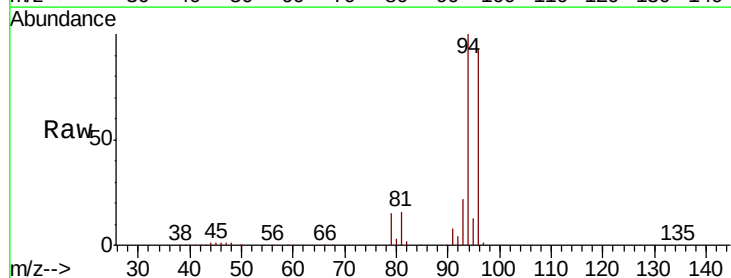
Acq: 6 Feb 2019 5:42

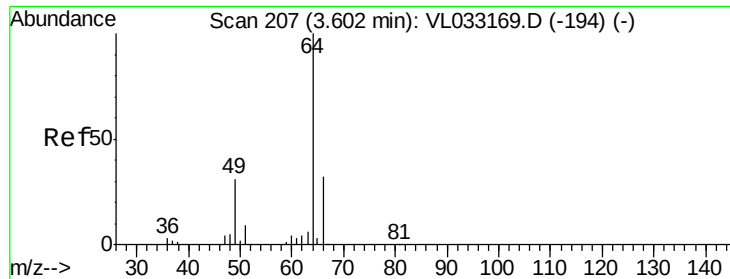
Tgt Ion: 94 Resp: 465483

Ion Ratio Lower Upper

94 100

96 92.8 73.2 109.8





#7

Chloroethane

Concen: 14.738 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 64 Resp: 279795

Ion Ratio Lower Upper

64 100

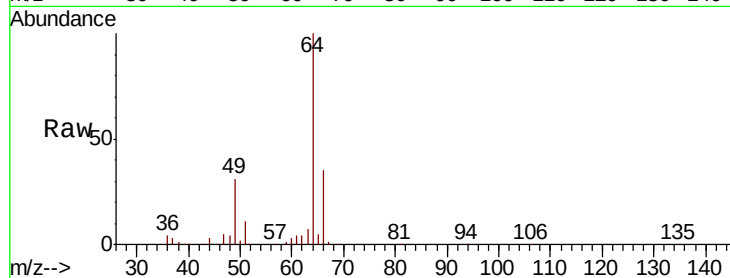
66 34.8 26.0 39.0

Manual Integrations

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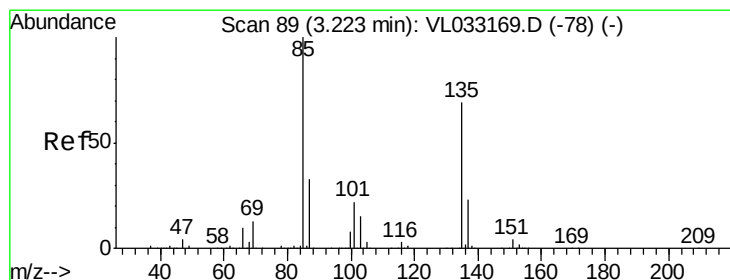
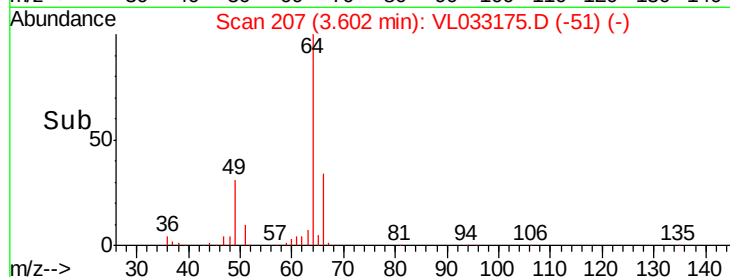
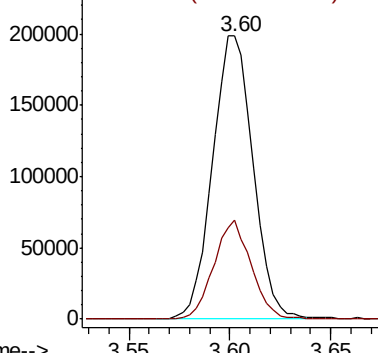
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 13.533 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033175.D

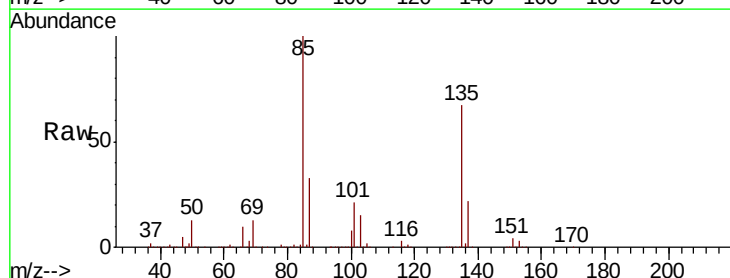
Acq: 6 Feb 2019 5:42

Tgt Ion: 85 Resp: 1770063

Ion Ratio Lower Upper

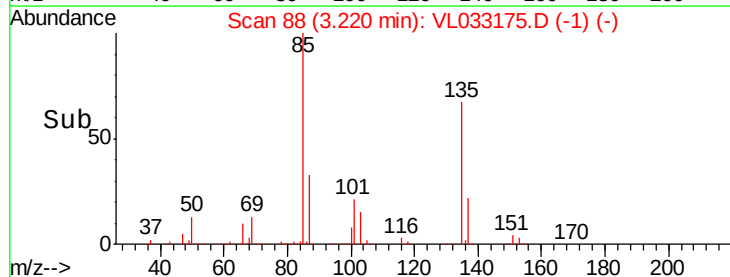
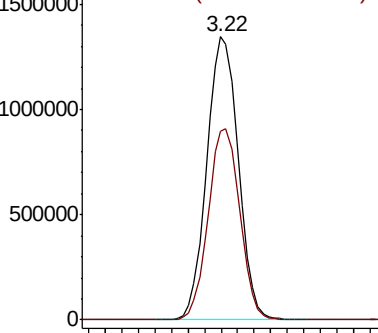
85 100

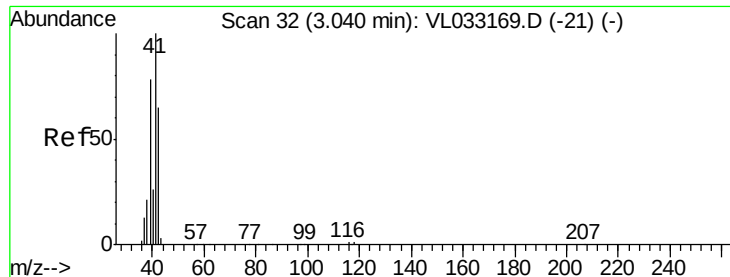
135 68.1 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 13.962 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion: 41 Resp: 710356

Ion Ratio Lower Upper

41 100

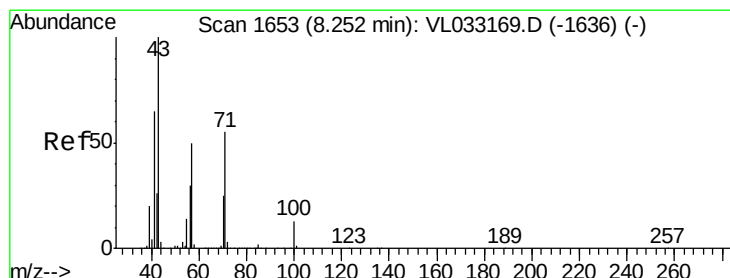
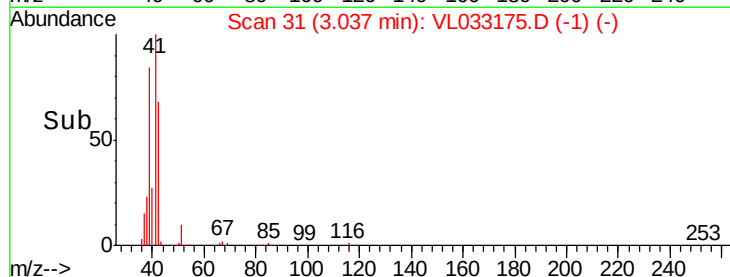
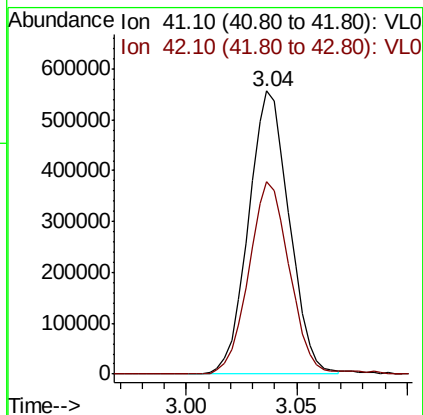
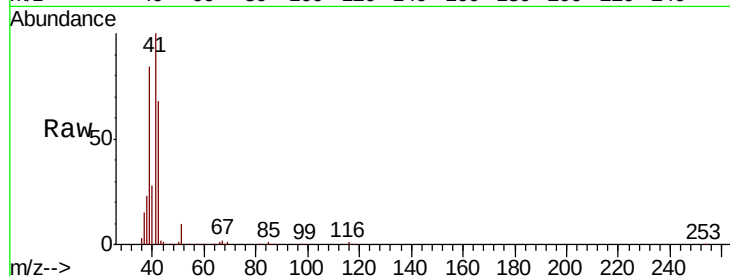
42 69.3 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 14.077 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL033175.D

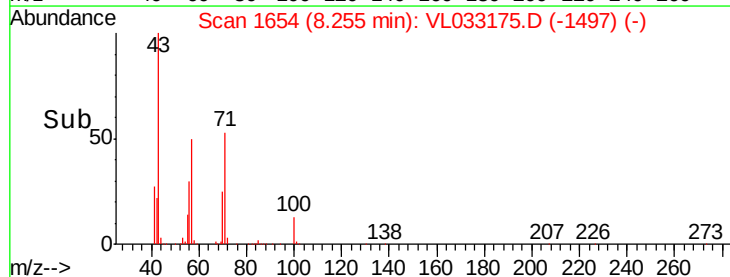
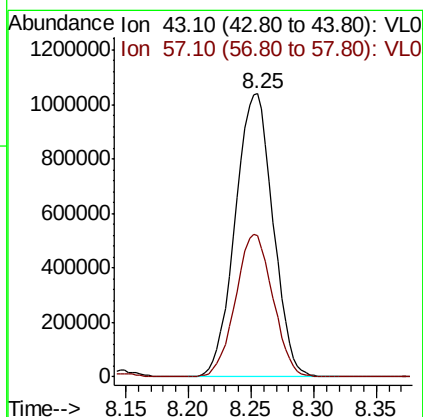
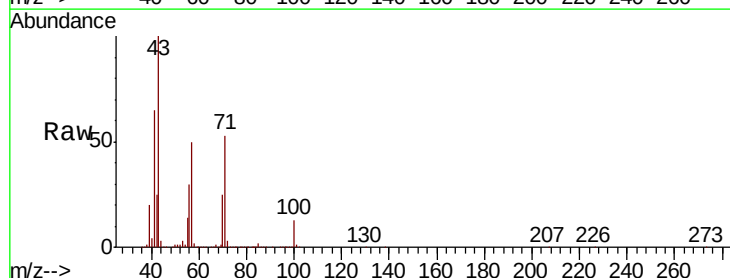
Acq: 6 Feb 2019 5:42

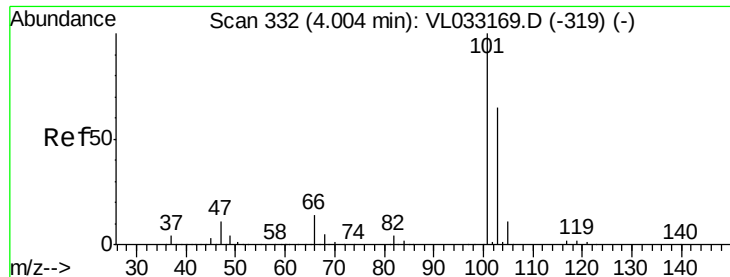
Tgt Ion: 43 Resp: 2166858

Ion Ratio Lower Upper

43 100

57 49.9 39.5 59.3





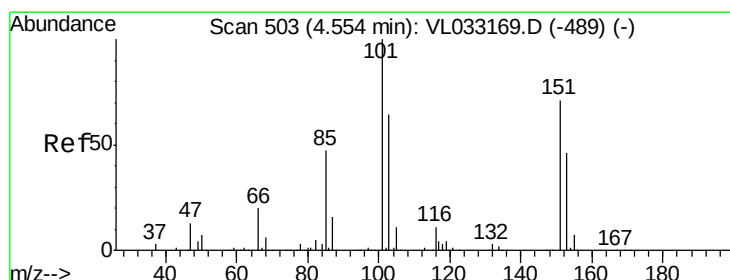
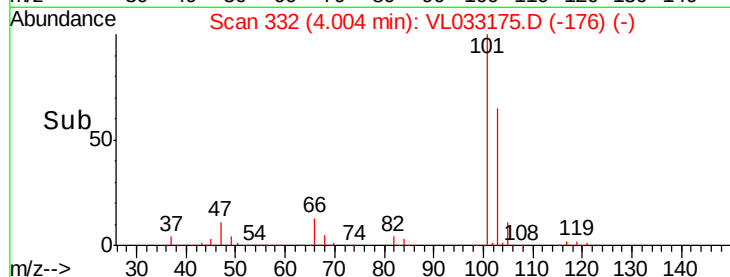
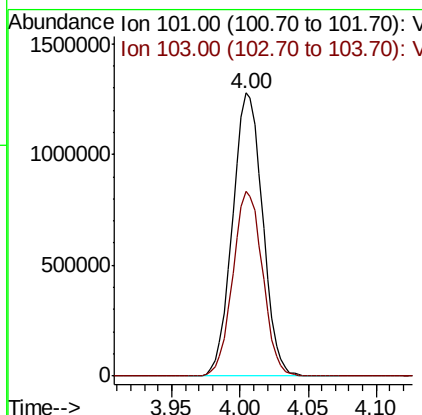
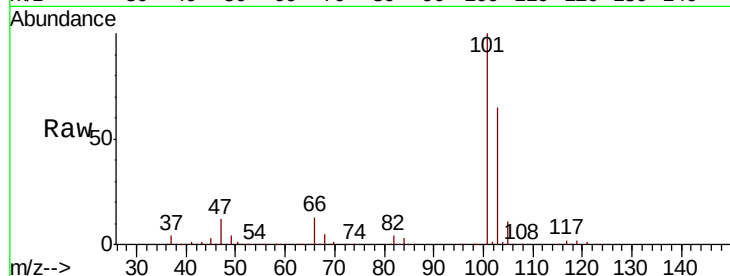
#11
 Trichlorofluoromethane
 Concen: 14.470 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tgt Ion:101 Resp: 1959057
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.7 77.5

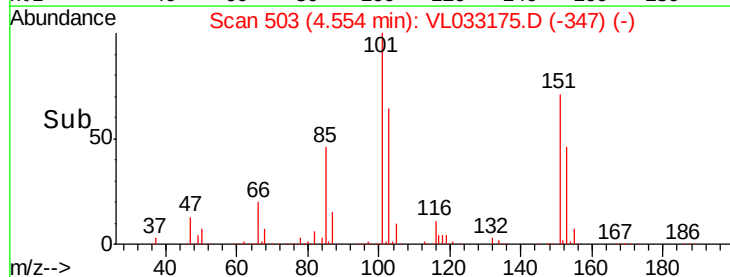
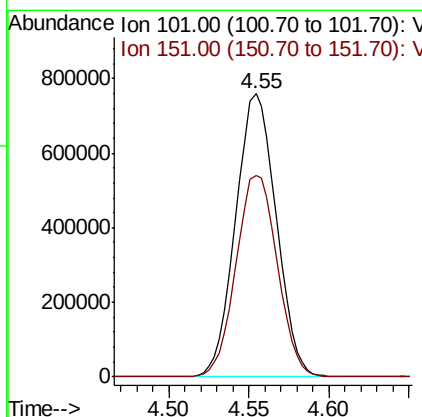
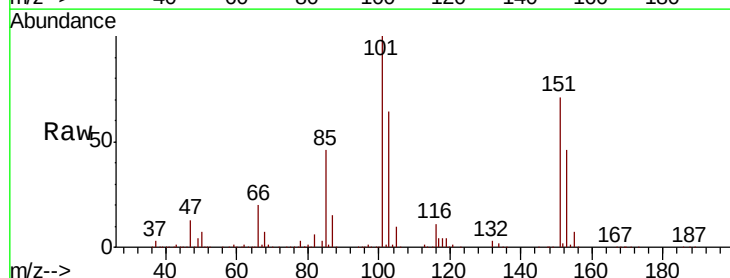
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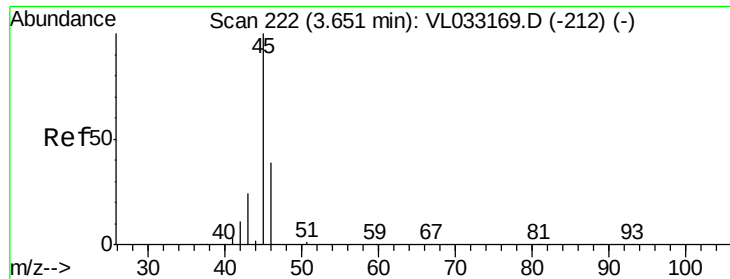
MMDadoda
 2/20/2019 12:21:45 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.985 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion:101 Resp: 1312243
 Ion Ratio Lower Upper
 101 100
 151 72.7 57.4 86.0





#13

Ethanol

Concen: 9.096 ppbv m

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 45 Resp: 154333

Ion Ratio Lower Upper

45 100

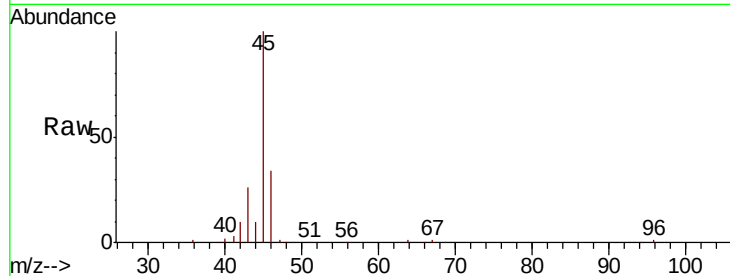
46 37.6 15.0 60.2

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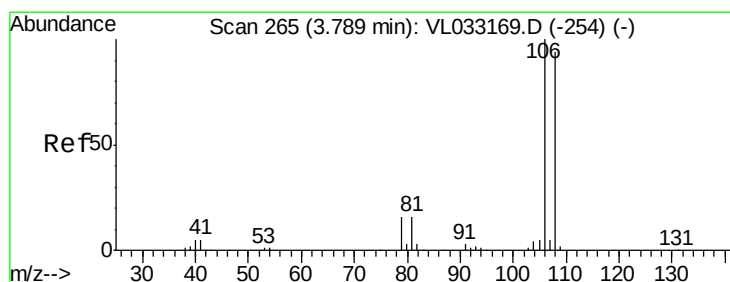
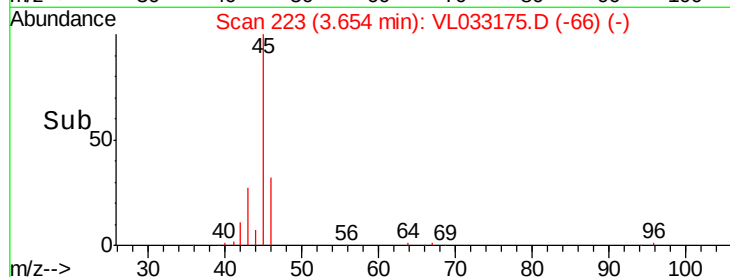
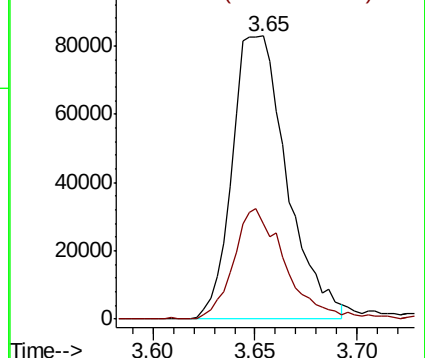
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 14.555 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

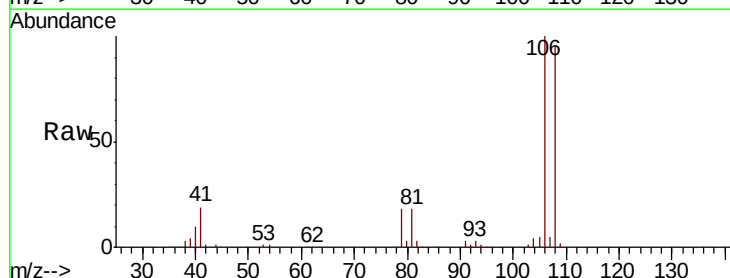
Tgt Ion: 108 Resp: 588875

Ion Ratio Lower Upper

108 100

106 108.0 86.0 129.0

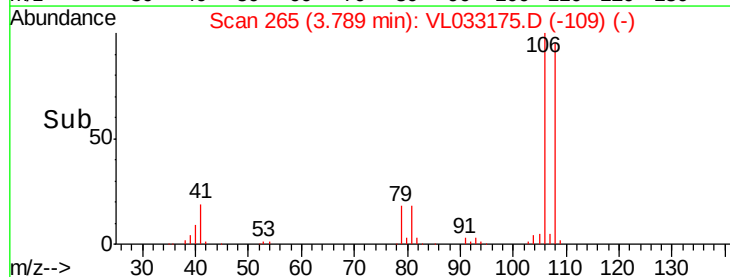
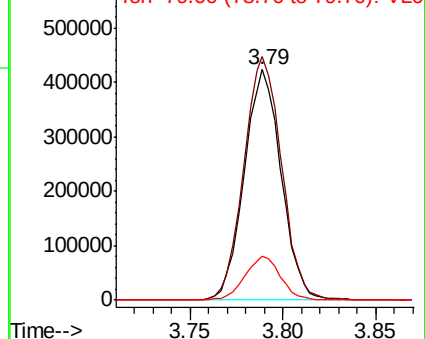
79 18.5 14.5 21.7

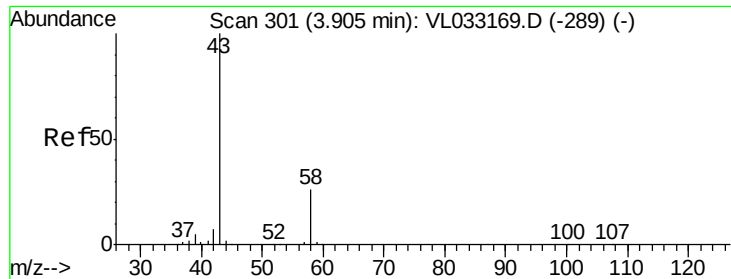


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 13.445 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 1324952

Ion Ratio Lower Upper

43 100

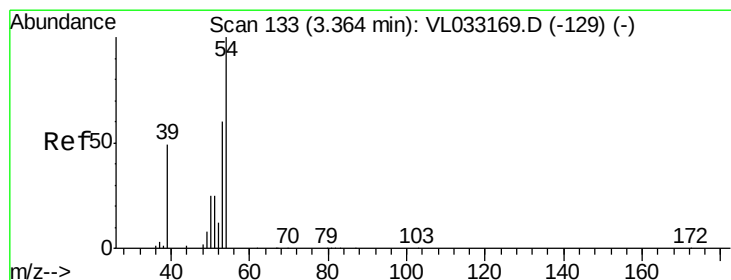
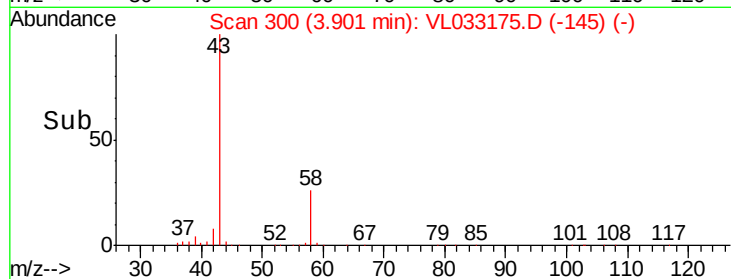
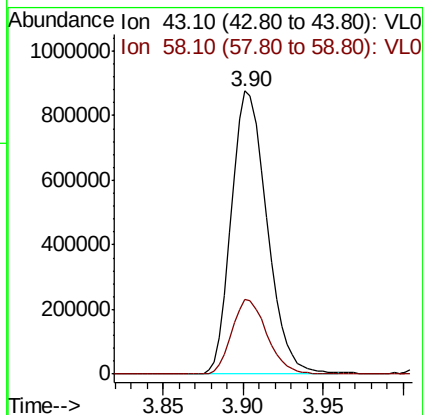
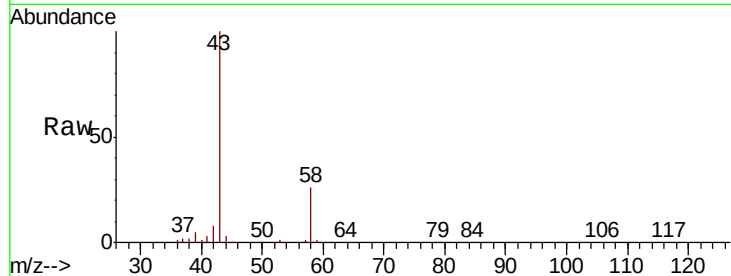
58 26.1 21.1 31.7

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#16

1,3-Butadiene

Concen: 14.254 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033175.D

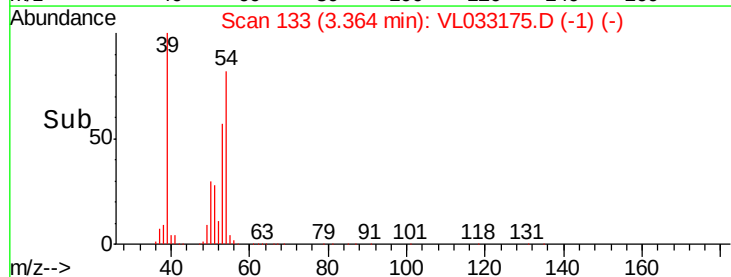
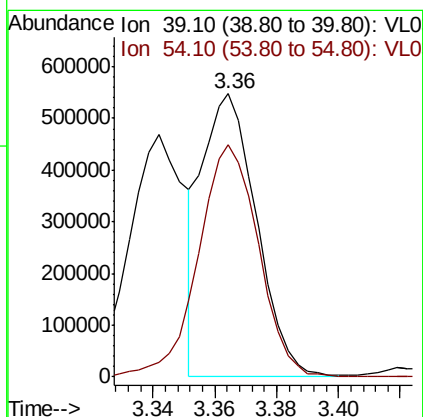
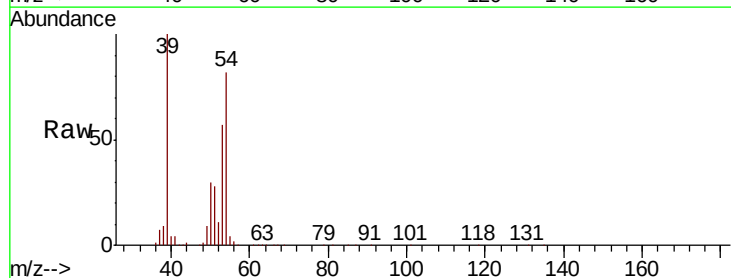
Acq: 6 Feb 2019 5:42

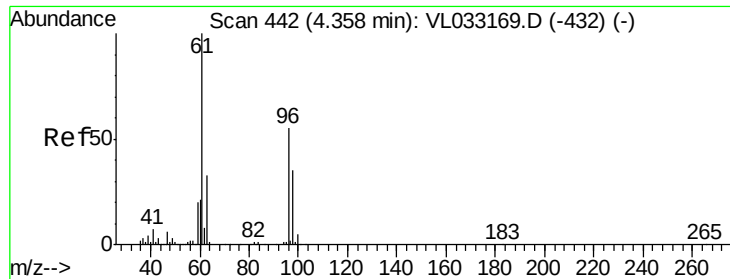
Tgt Ion: 39 Resp: 666803

Ion Ratio Lower Upper

39 100

54 91.8 71.3 106.9





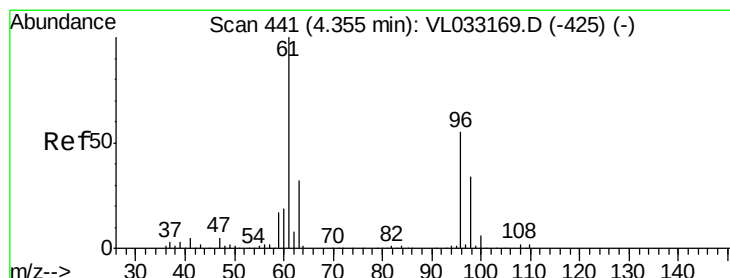
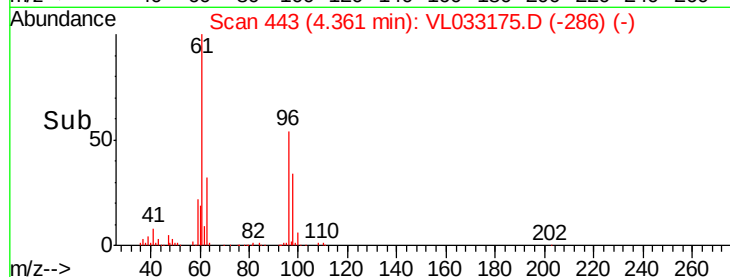
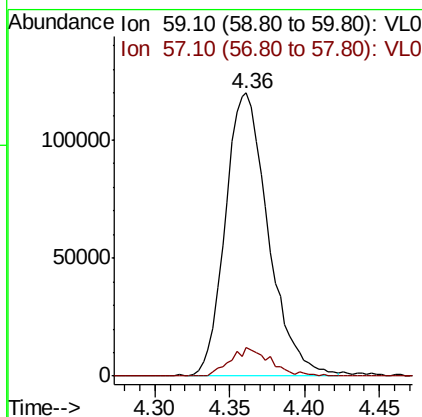
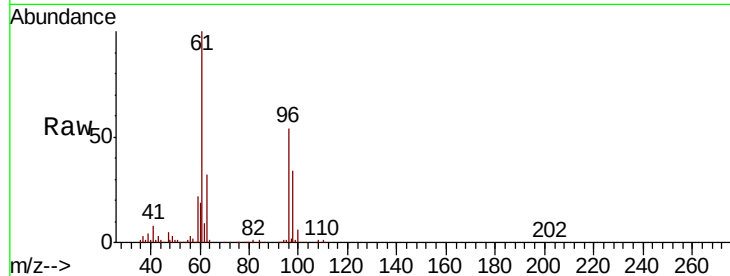
#17
tert-Butyl alcohol
Concen: 12.757 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 239685
Ion Ratio Lower Upper
59 100
57 9.4 7.6 11.4

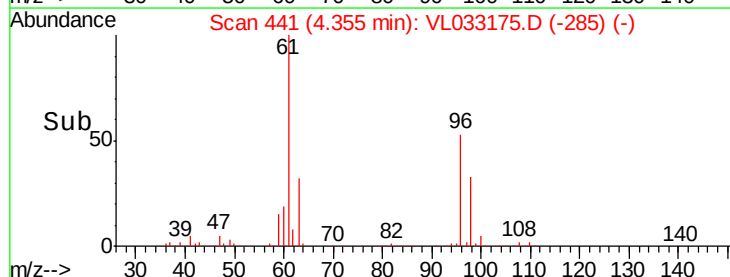
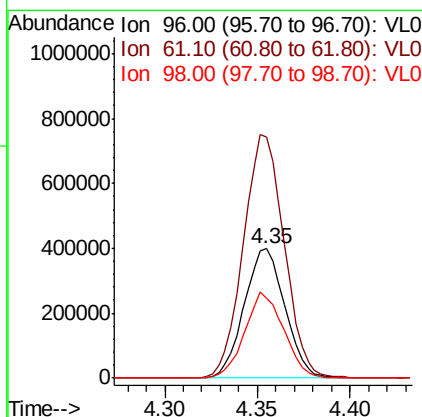
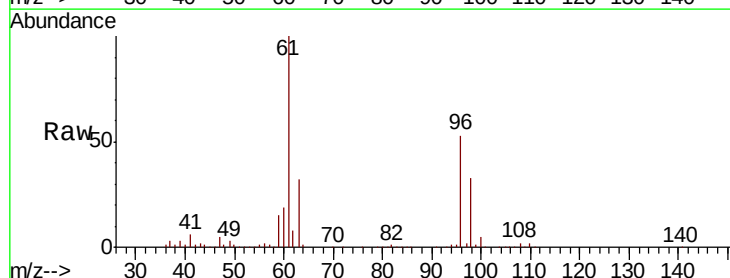
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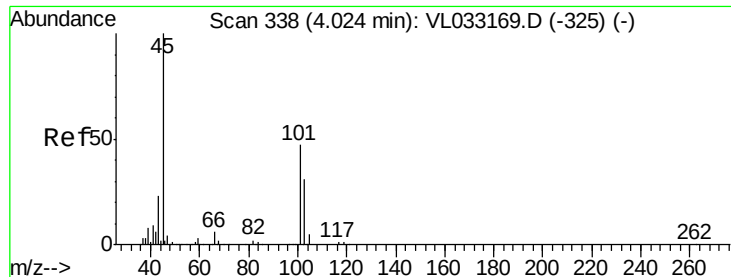
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#18
1,1-Dichloroethene
Concen: 14.449 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion: 96 Resp: 606901
Ion Ratio Lower Upper
96 100
61 187.0 145.0 217.6
98 61.9 50.0 75.0





#19

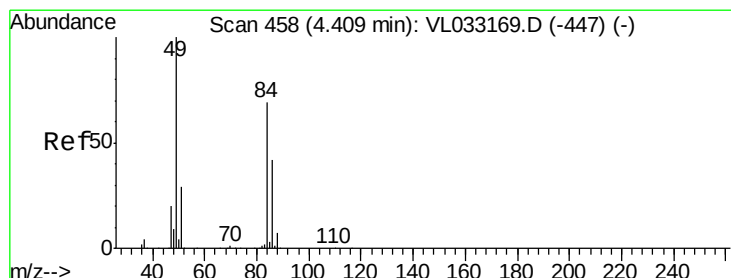
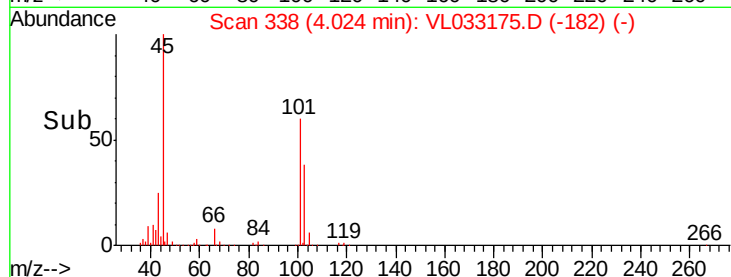
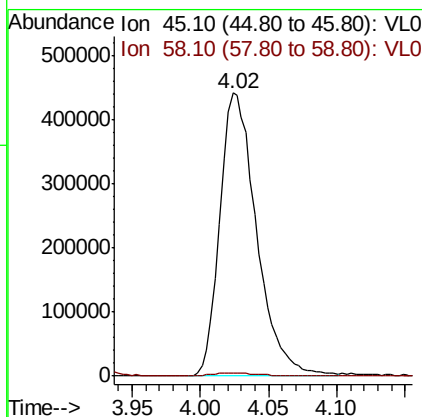
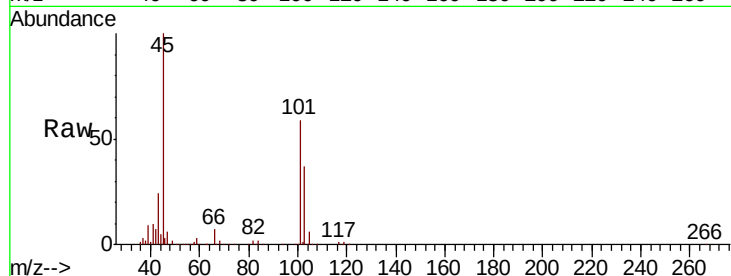
Isopropyl Alcohol
 Concen: 12.356 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 45 Resp: 825823
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.5 2.3

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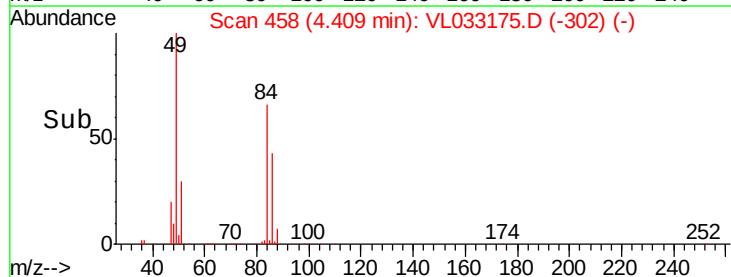
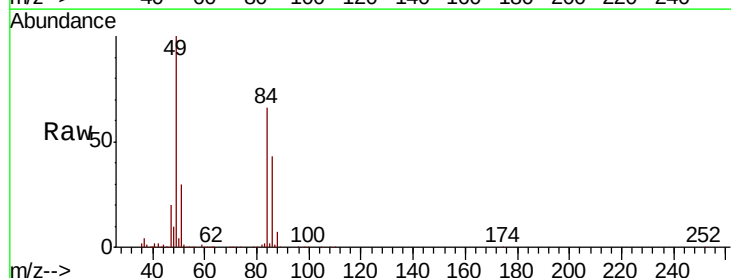
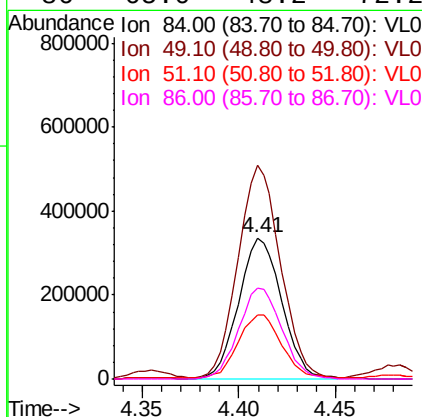
MMDadoda
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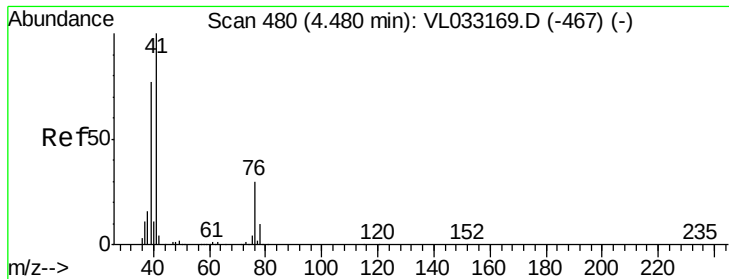


#20

Methylene Chloride
 Concen: 13.204 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion: 84 Resp: 517596
 Ion Ratio Lower Upper
 84 100
 49 150.9 115.8 173.8
 51 45.2 33.0 49.6
 86 65.0 48.2 72.2





#21

Allyl Chloride

Concen: 15.046 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

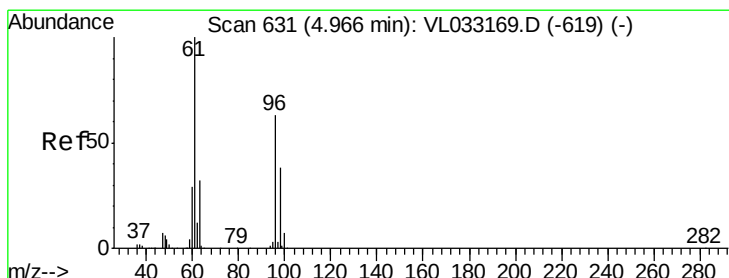
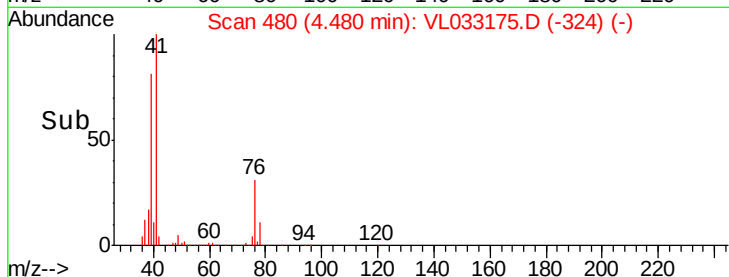
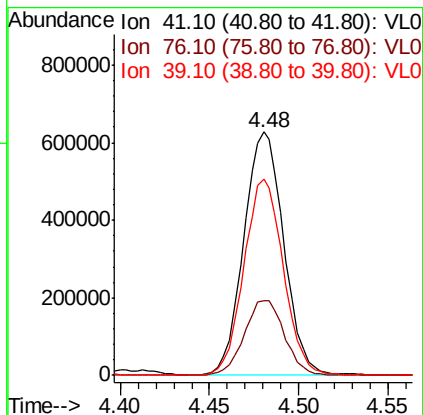
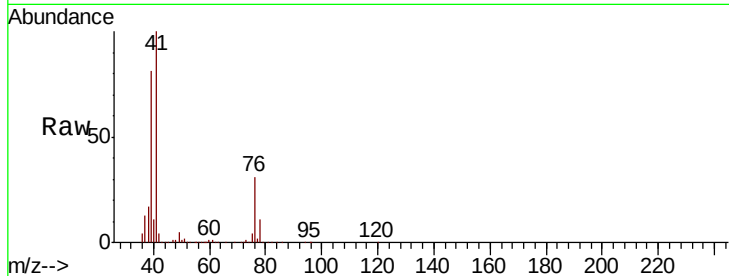
ClientSampleId :

VSTDIC015

Tgt Ion:	41	Resp:	979064
Ion	Ratio	Lower	Upper
41	100		
76	31.1	24.5	36.7
39	80.2	64.1	96.1

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#22

trans-1,2-Dichloroethene

Concen: 15.028 ppbv

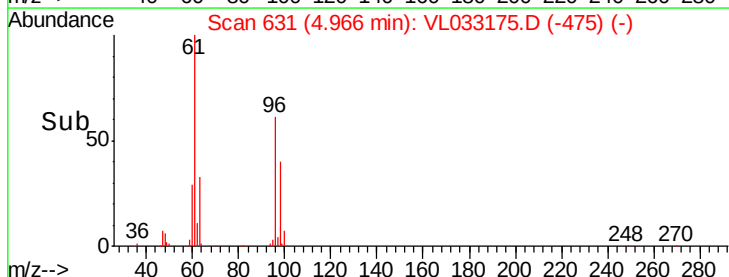
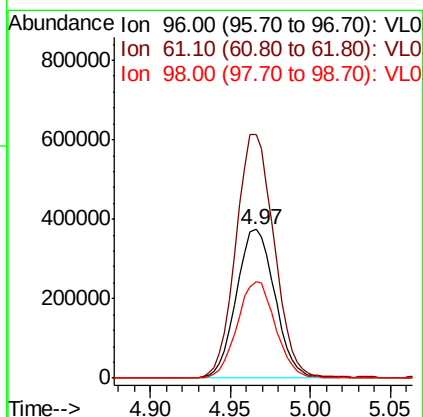
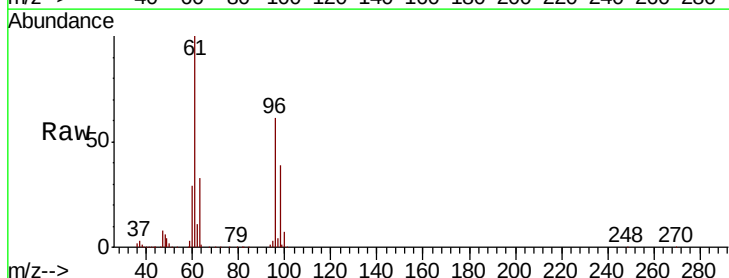
RT: 4.97 min Scan# 631

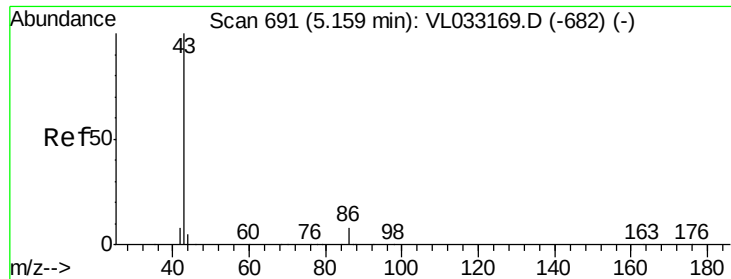
Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Tgt Ion:	96	Resp:	613019
Ion	Ratio	Lower	Upper
96	100		
61	163.7	126.4	189.6
98	64.6	48.4	72.6





#23
 Vinyl Acetate
 Concen: 14.858 ppbv
 RT: 5.16 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

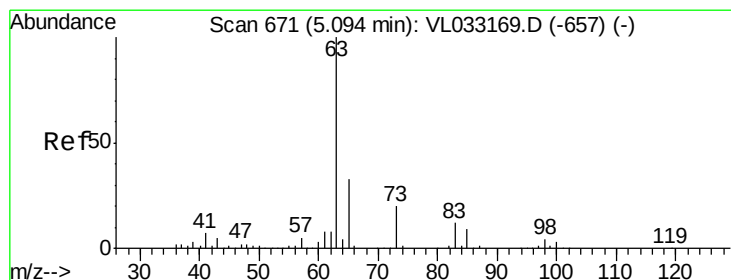
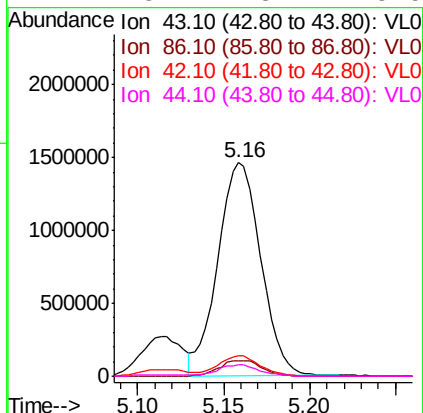
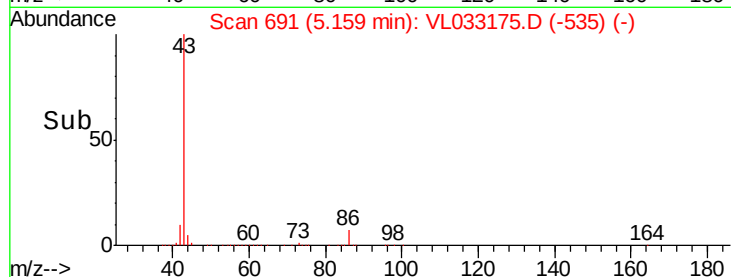
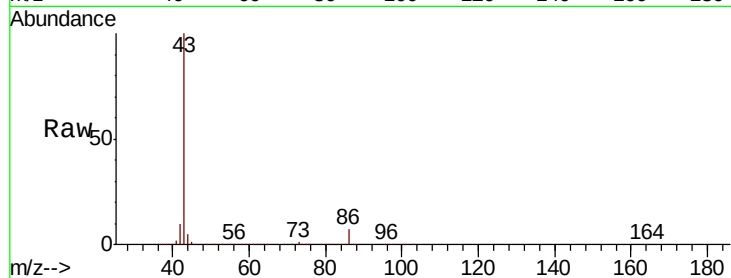
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 2537769

Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.8	8.8
42	9.5	7.4	11.0
44	5.1	3.7	5.5

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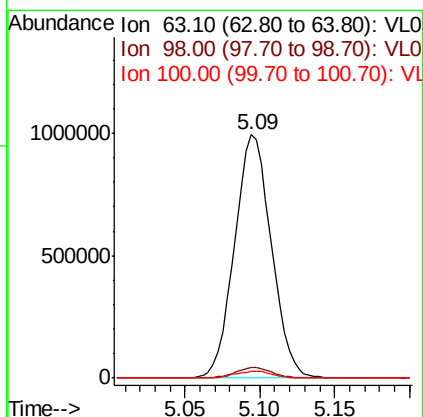
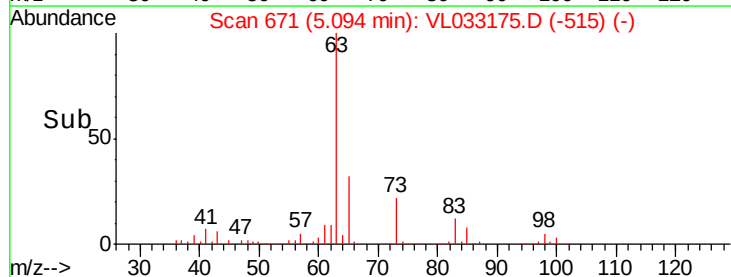
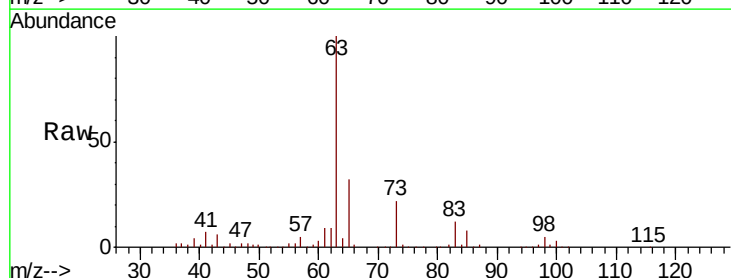
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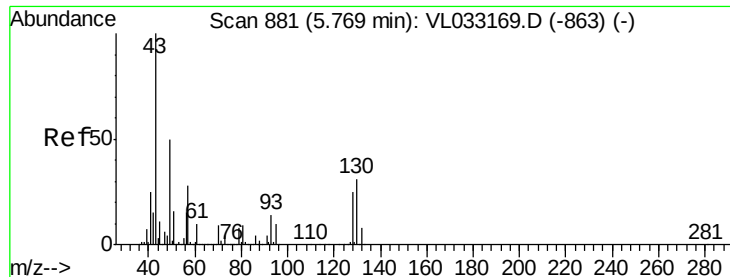


#24
 1,1-Dichloroethane
 Concen: 14.062 ppbv
 RT: 5.09 min Scan# 671
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion: 63 Resp: 1698810

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.1	6.5
100	2.7	1.4	4.2





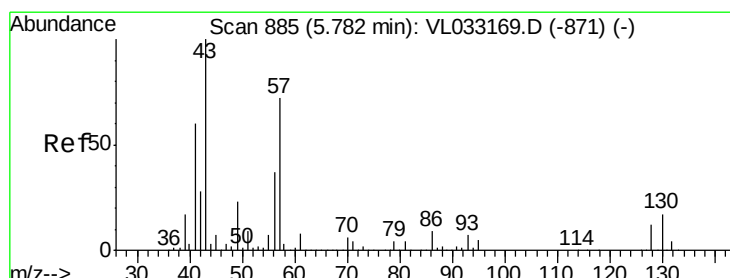
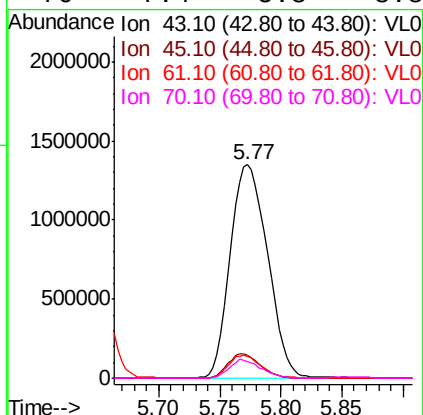
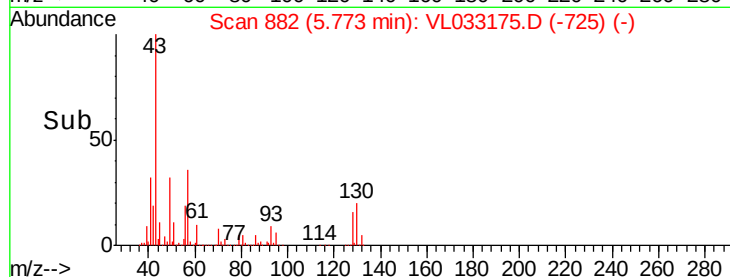
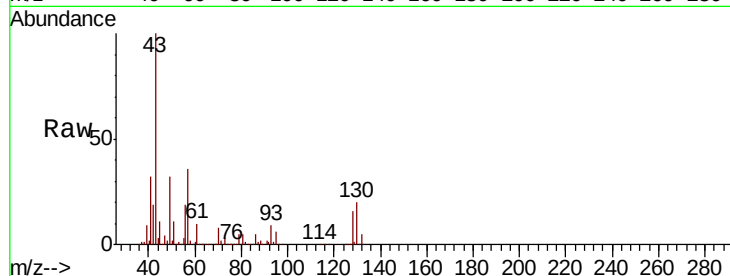
#25
Ethyl Acetate
Concen: 13.000 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.6	7.5	11.3
70	7.4	5.8	8.8

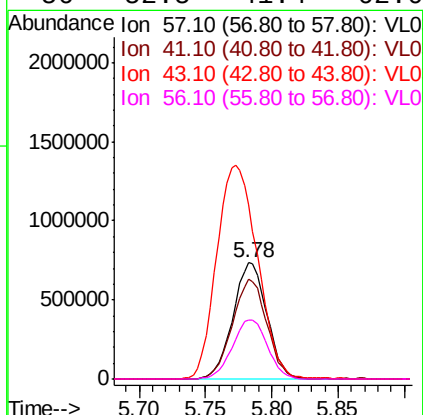
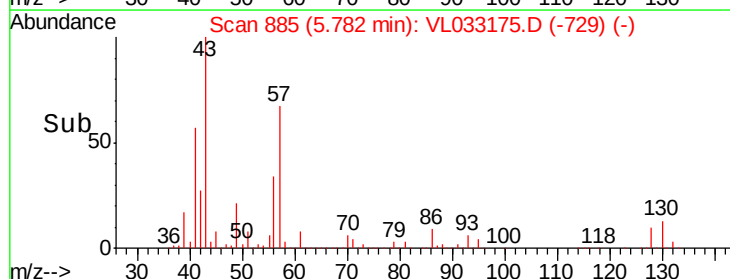
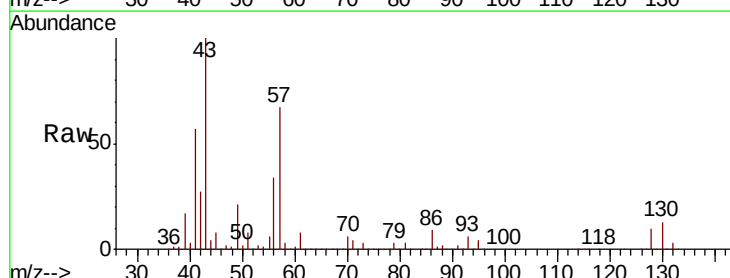
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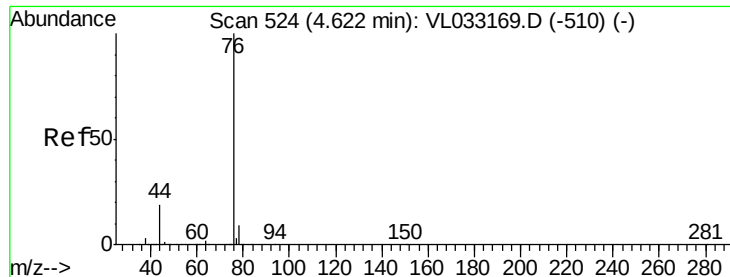
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#26
Hexane
Concen: 12.539 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.8	69.4	104.2
43	221.5	176.7	265.1
56	52.5	41.4	62.0





#27

Carbon Disulfide

Concen: 16.260 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 76 Resp: 1549475

Ion Ratio Lower Upper

76 100

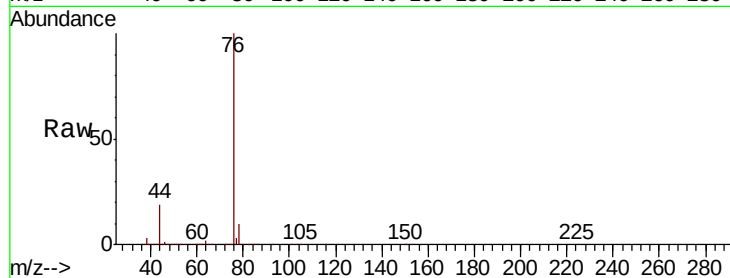
44 18.9 15.0 22.4

78 9.0 7.4 11.0

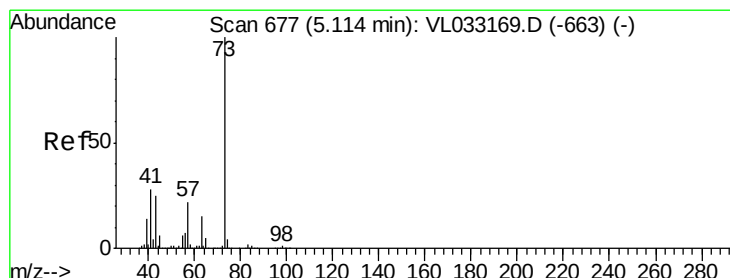
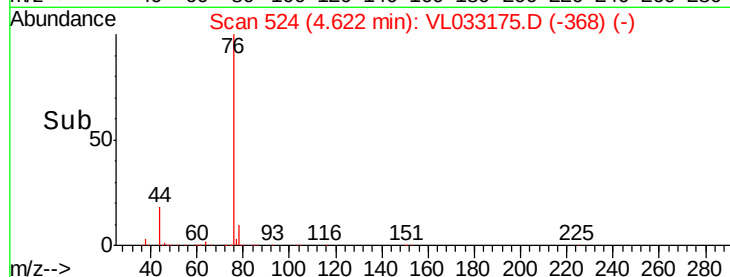
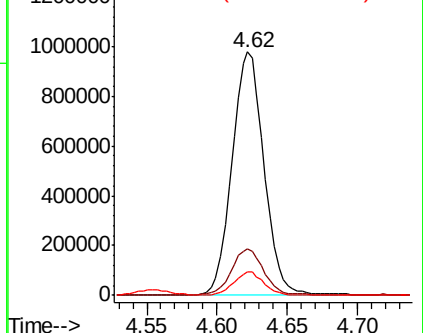
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 14.107 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033175.D

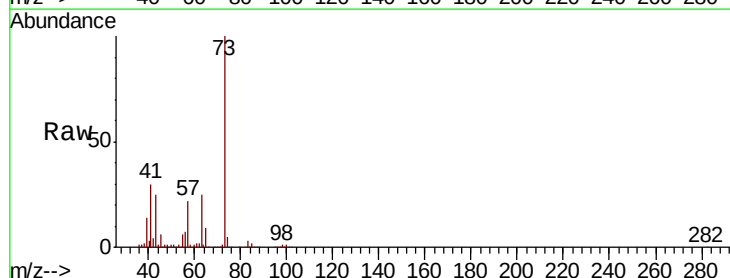
Acq: 6 Feb 2019 5:42

Tgt Ion: 73 Resp: 2005192

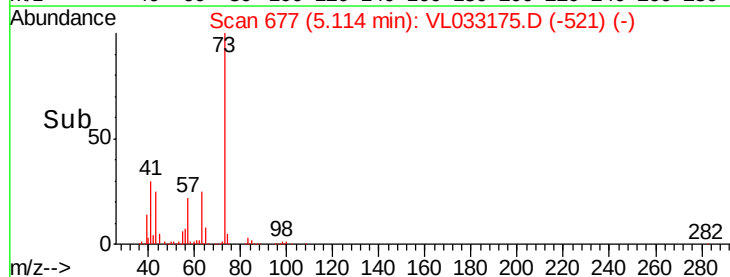
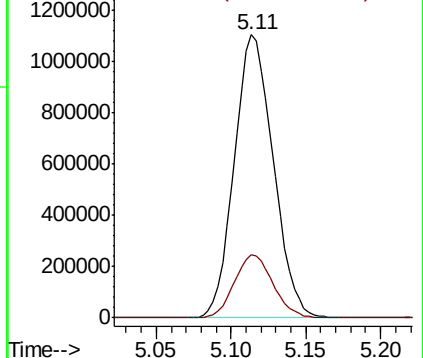
Ion Ratio Lower Upper

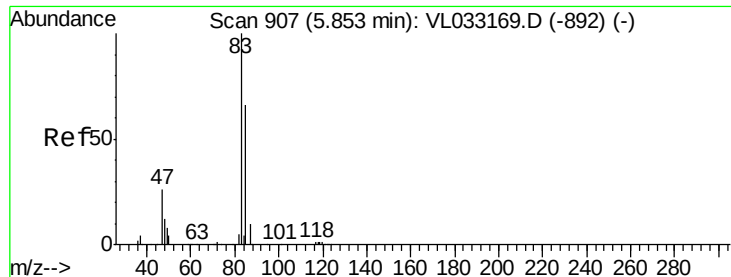
73 100

57 22.4 17.9 26.9



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





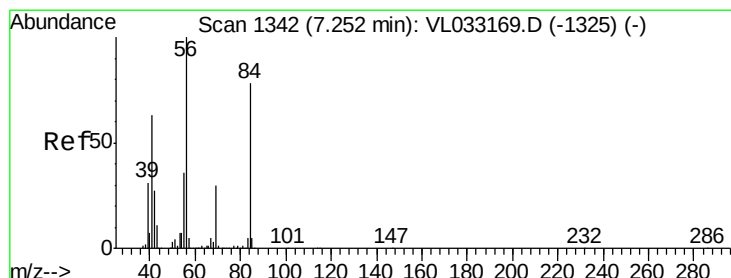
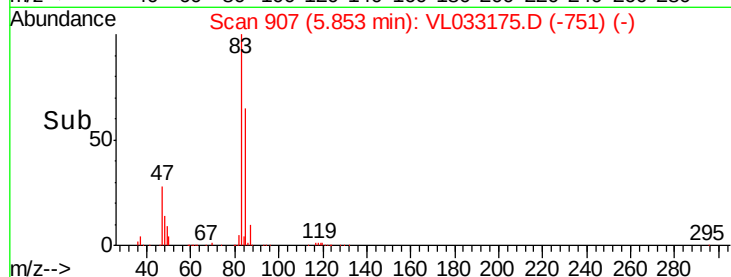
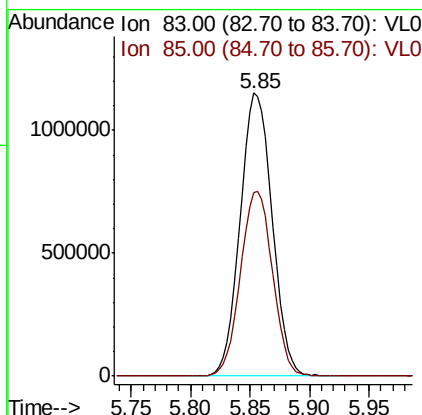
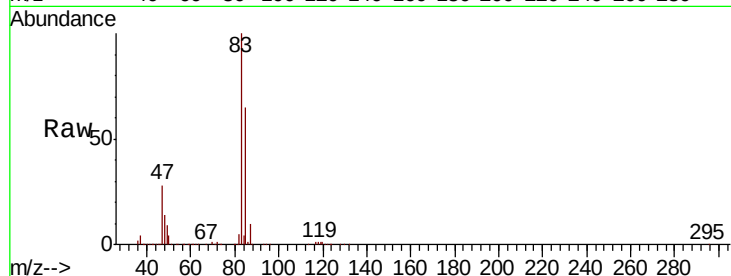
#29
Chloroform
Concen: 13.495 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 83 Resp: 2151195
Ion Ratio Lower Upper
83 100
85 64.6 52.6 78.8

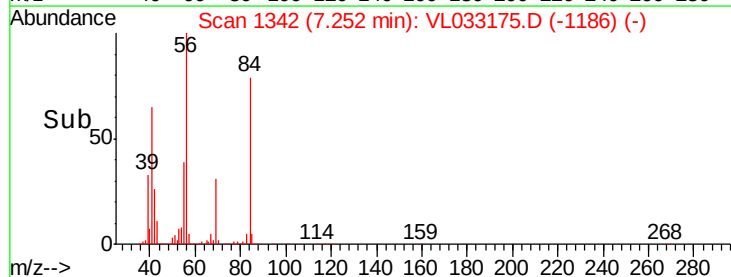
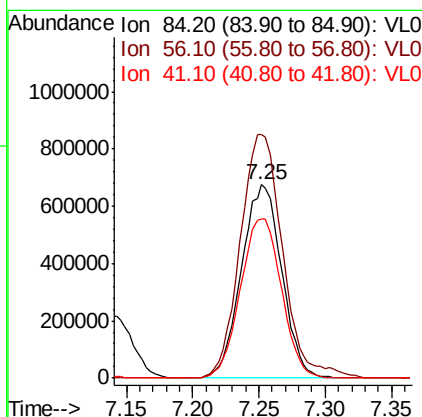
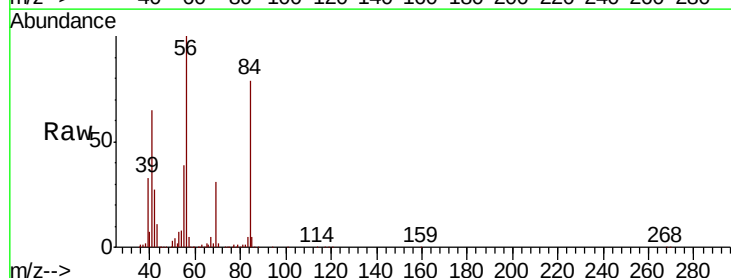
Manual Integrations
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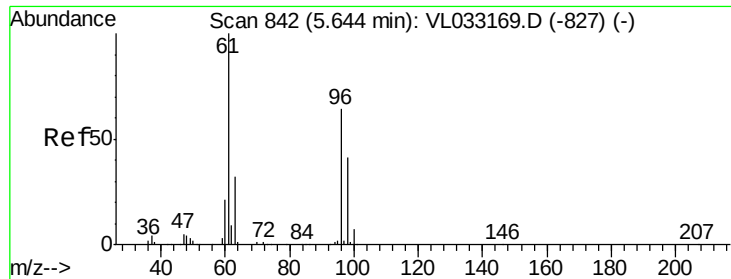
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#30
Cyclohexane
Concen: 14.736 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion: 84 Resp: 1422214
Ion Ratio Lower Upper
84 100
56 133.1 109.5 164.3
41 84.2 66.6 100.0





#31

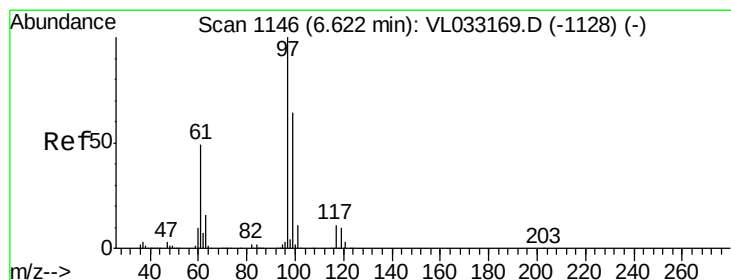
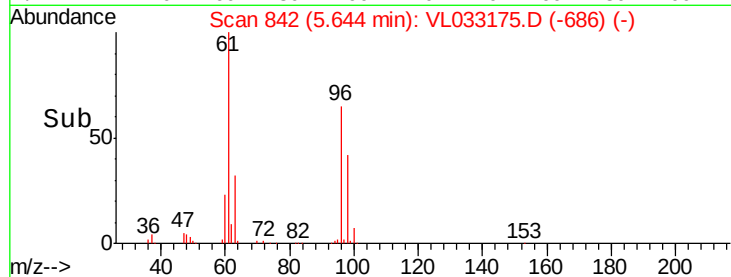
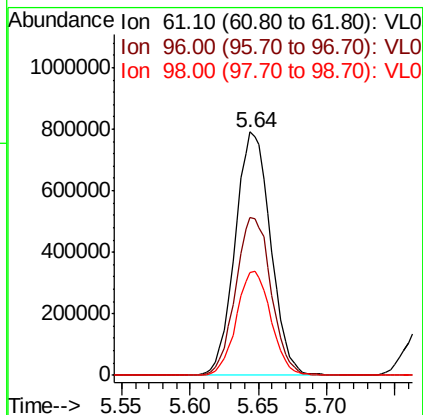
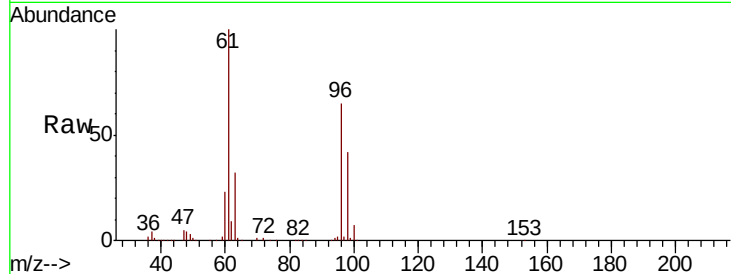
cis-1,2-Dichloroethene
Concen: 13.722 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
61	100		
96	64.8	51.2	76.8
98	42.2	32.8	49.2

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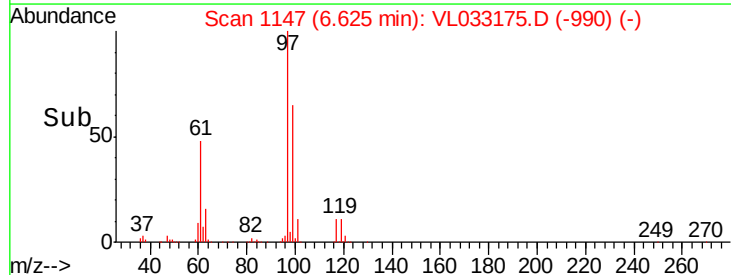
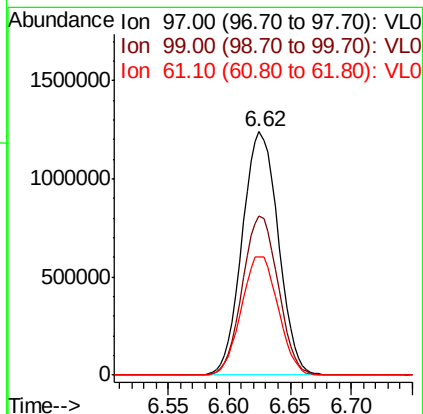
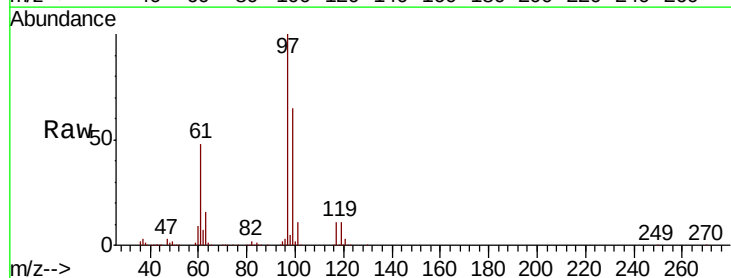
MMDadoda
2/20/2019 12:21:45 PM

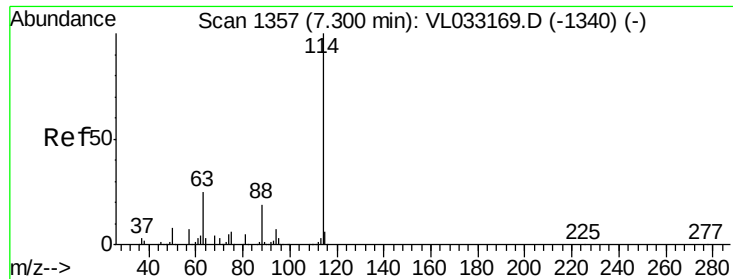


#32

1,1,1-Trichloroethane
Concen: 14.445 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.2
61	49.8	38.8	58.2





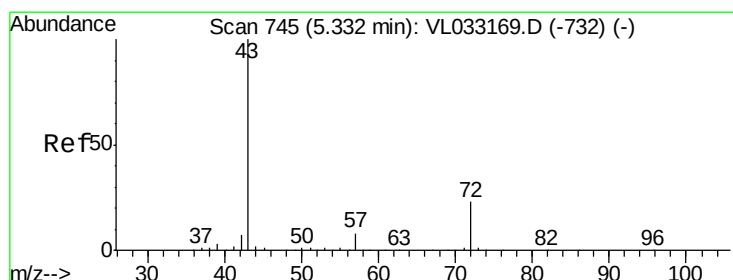
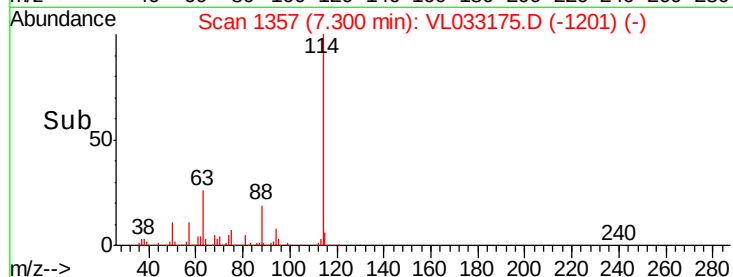
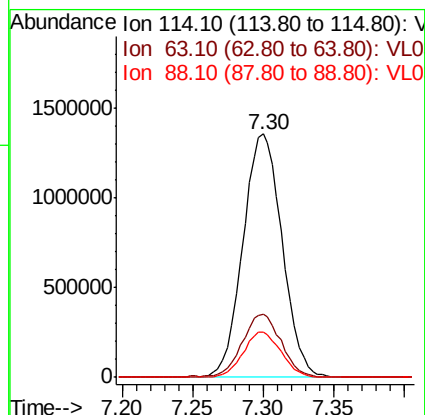
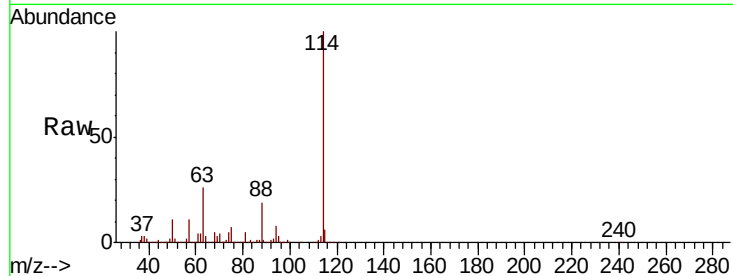
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 114 Resp: 2634827
 Ion Ratio Lower Upper
 114 100
 63 26.2 20.8 31.2
 88 18.2 14.6 22.0

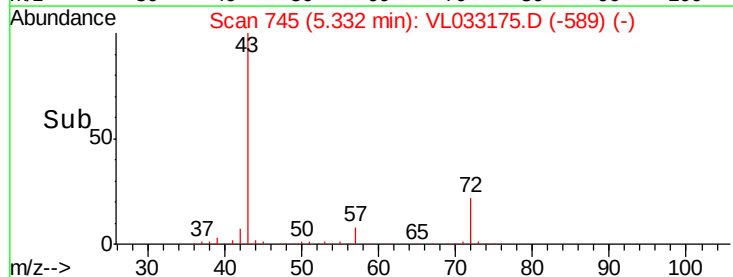
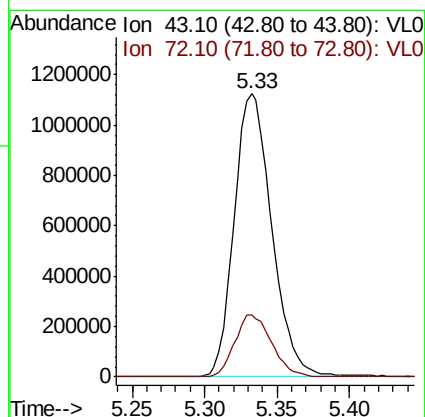
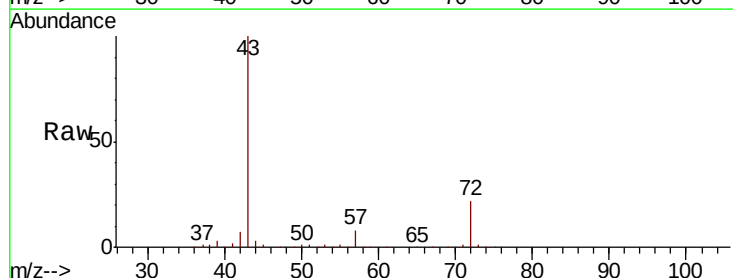
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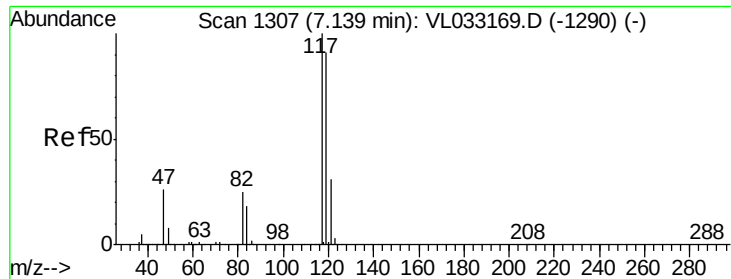
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#34
 2-Butanone
 Concen: 12.051 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion: 43 Resp: 2014071
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.8 26.6





#35

Carbon Tetrachloride

Concen: 13.018 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

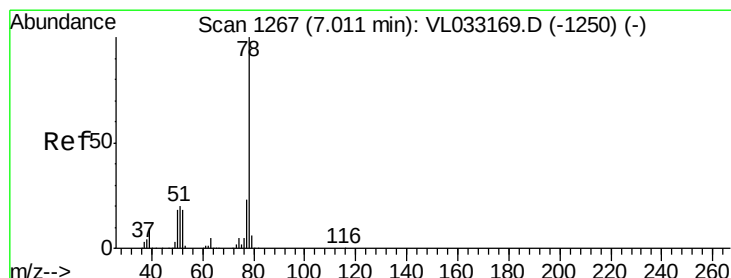
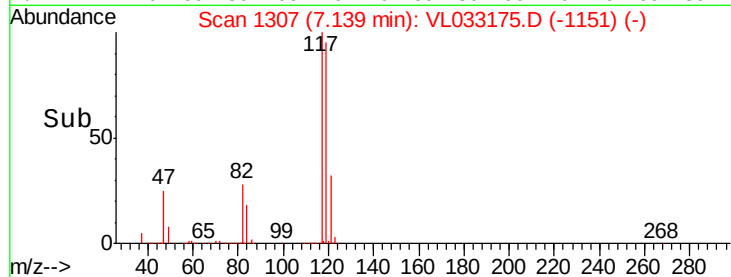
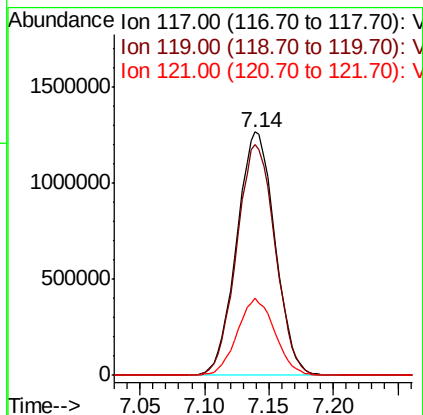
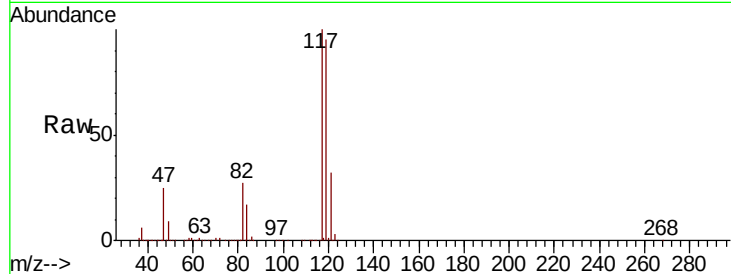
VSTDIC015

Tgt Ion: 117 Resp: 2619475

Ion	Ratio	Lower	Upper
117	100		
119	95.0	73.0	109.6
121	31.7	25.1	37.7

Manual Integrations
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#36

Benzene

Concen: 13.019 ppbv

RT: 7.01 min Scan# 1268

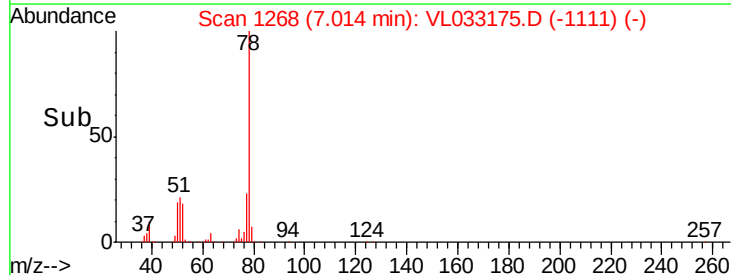
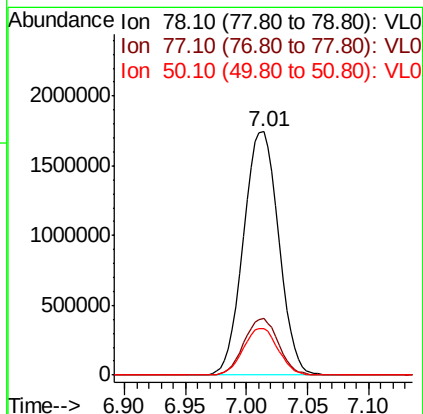
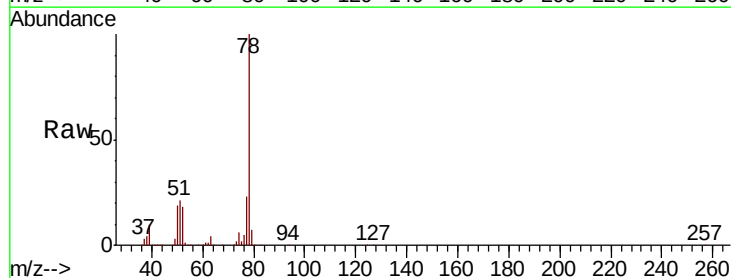
Delta R.T. 0.00 min

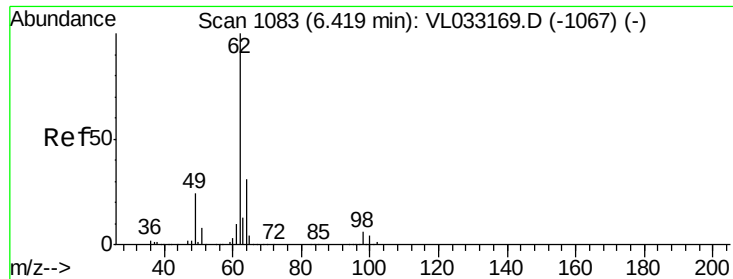
Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Tgt Ion: 78 Resp: 3476616

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.0	27.0
50	19.1	14.2	21.2





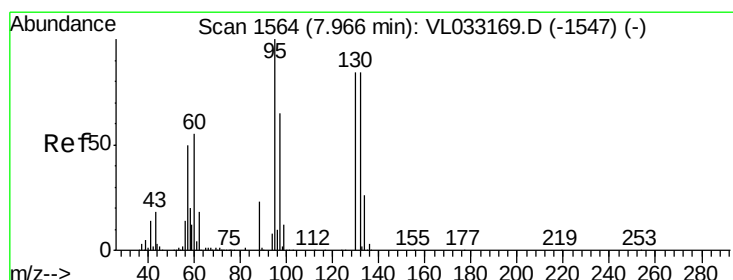
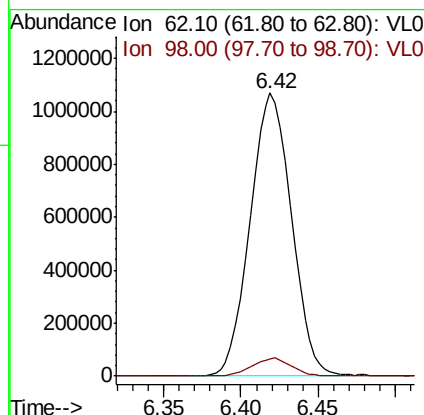
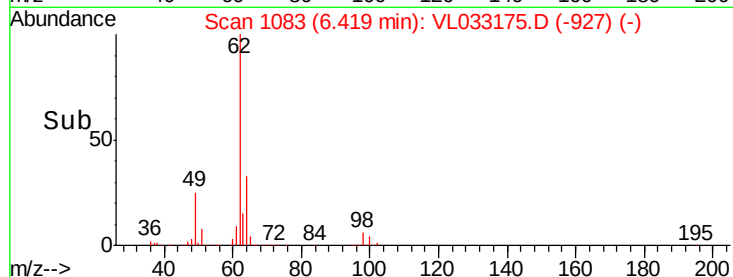
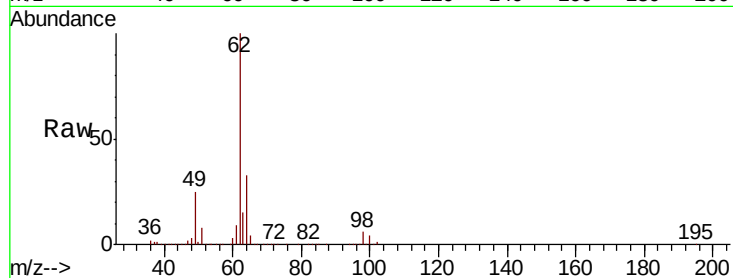
#37
1,2-Dichloroethane
Concen: 13.435 ppbv
RT: 6.42 min Scan# 1083
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 62 Resp: 1988231
Ion Ratio Lower Upper
62 100
98 6.1 4.7 7.1

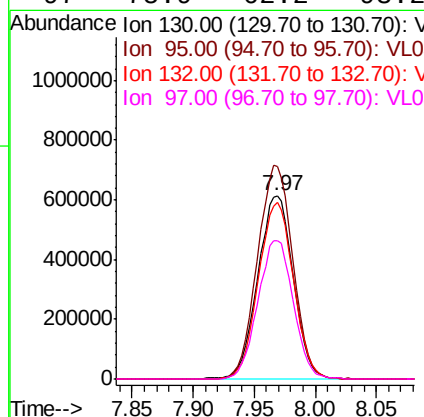
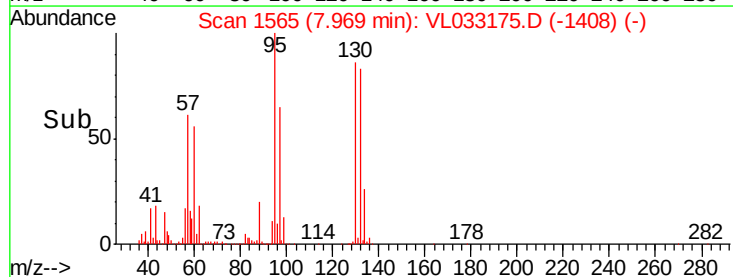
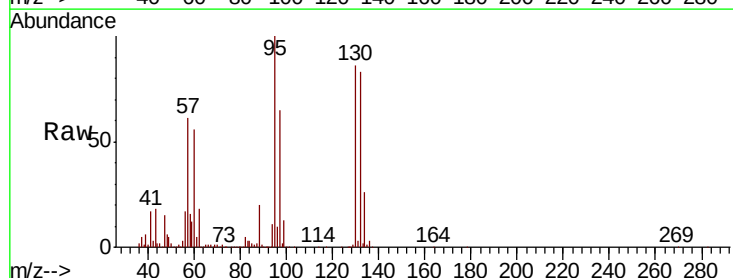
Manual Integrations
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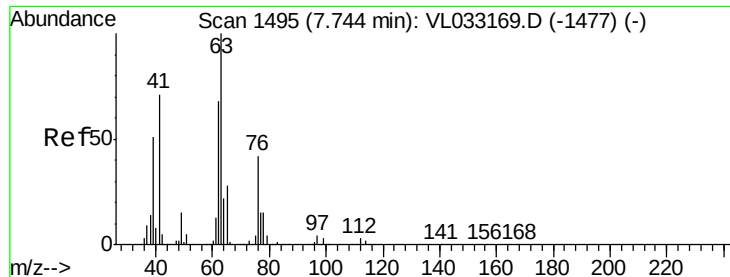
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#38
Trichloroethene
Concen: 10.782 ppbv
RT: 7.97 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion: 130 Resp: 1233029
Ion Ratio Lower Upper
130 100
95 116.2 95.5 143.3
132 96.5 80.0 120.0
97 75.9 62.2 93.2





#39

1,2-Dichloropropane

Concen: 12.566 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 63 Resp: 1325220

Ion Ratio Lower Upper

63 100

41 71.2 56.4 84.6

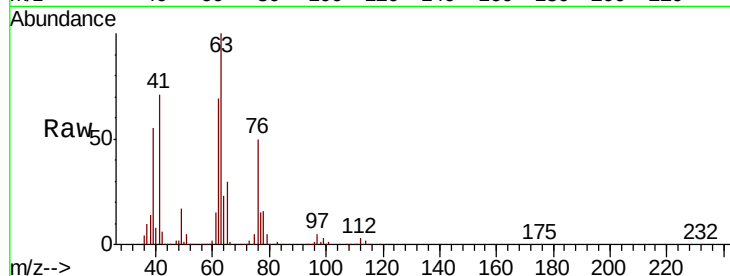
62 68.5 54.2 81.4

Manual Integrations

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Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

800000

600000

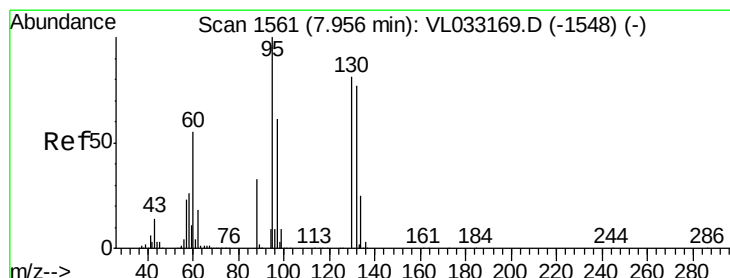
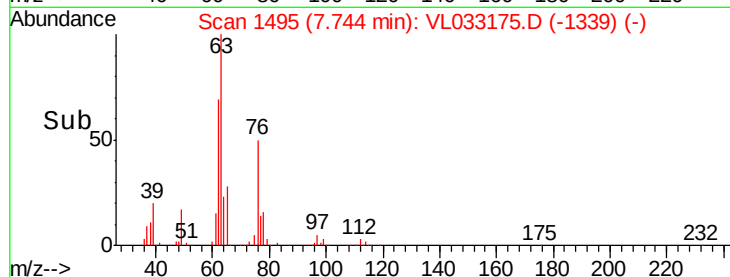
400000

200000

0

7.65 7.70 7.75 7.80

Time-->



#40

1,4-Dioxane

Concen: 10.695 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Tgt Ion: 88 Resp: 409914

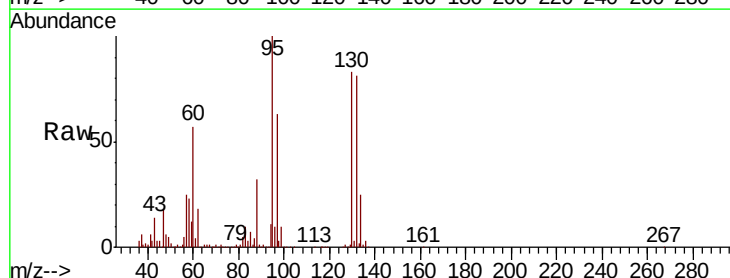
Ion Ratio Lower Upper

88 100

58 137.1 106.4 159.6

43 293.5 219.6 329.4

57 1326.3 993.3 1489.9



Abundance

Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

3000000

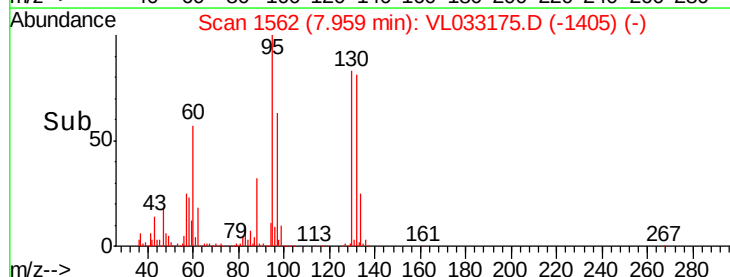
2000000

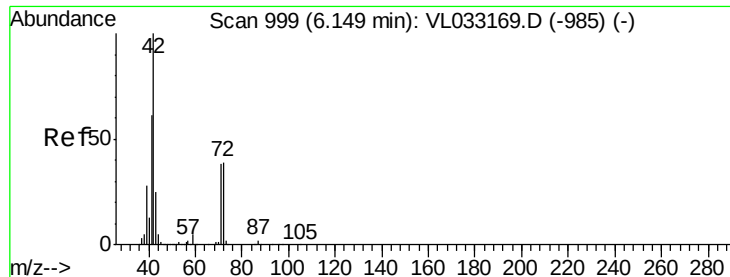
1000000

0

7.90 7.95 8.00 8.05

Time-->





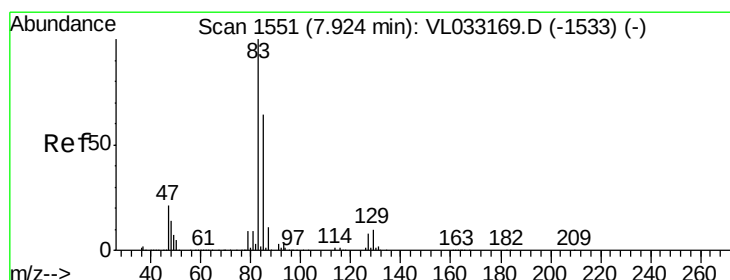
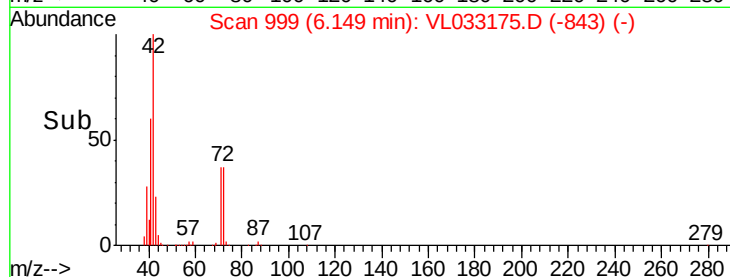
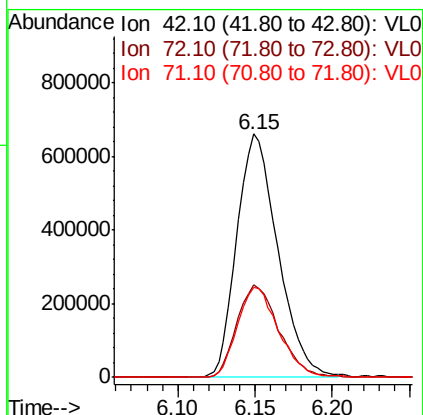
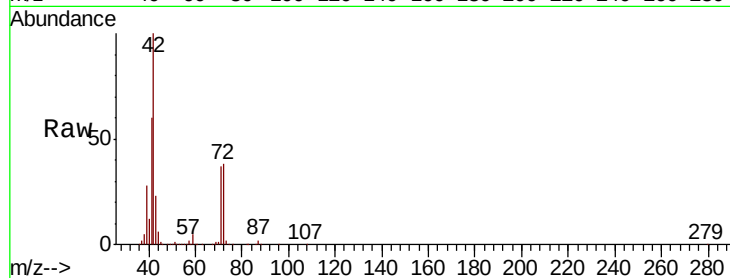
#41
Tetrahydrofuran
Concen: 11.772 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 42 Resp: 1217850
Ion Ratio Lower Upper
42 100
72 39.1 31.4 47.2
71 37.2 30.2 45.2

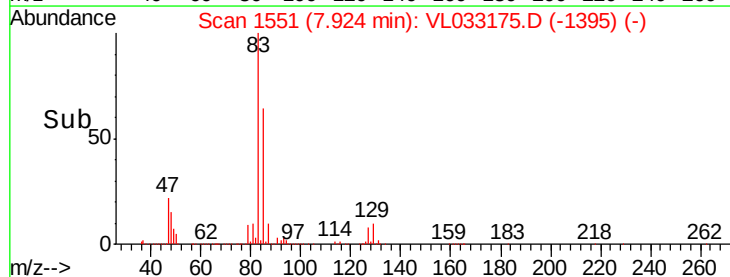
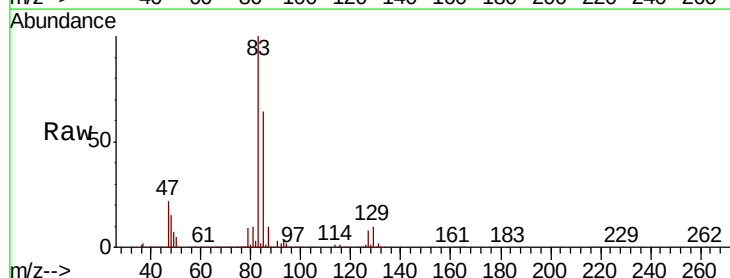
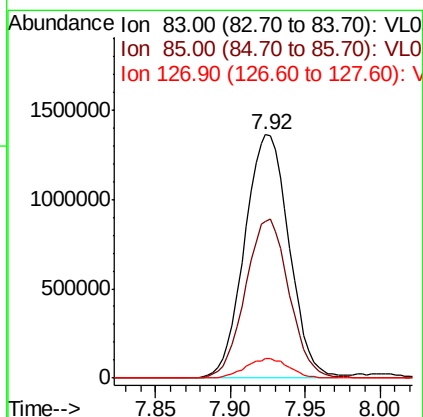
Manual Integrations
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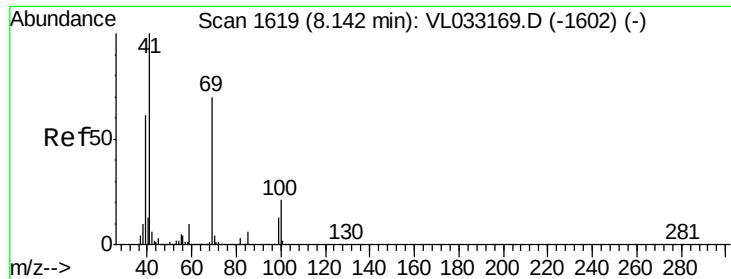
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#42
Bromodichloromethane
Concen: 13.124 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion: 83 Resp: 2814454
Ion Ratio Lower Upper
83 100
85 64.1 51.1 76.7
127 8.0 6.4 9.6





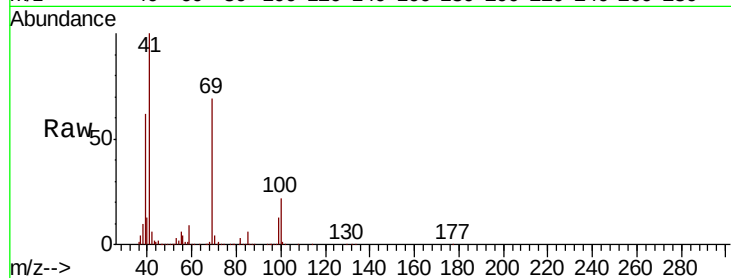
#43
Methyl Methacrylate
Concen: 13.309 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

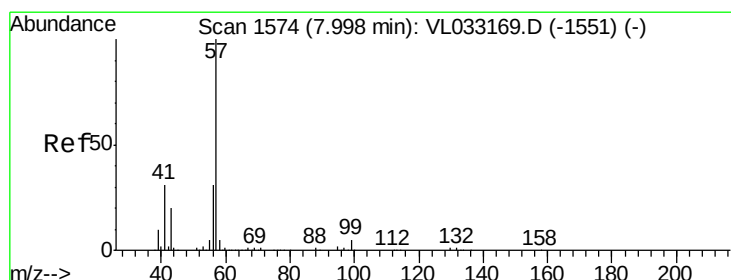
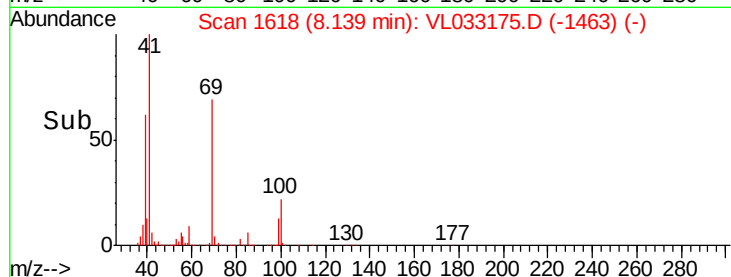
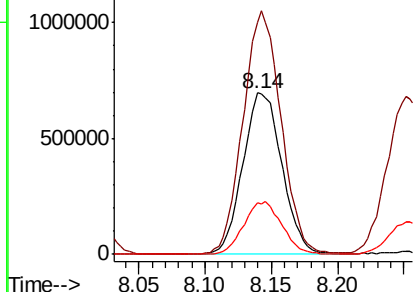
Tgt Ion: 69 Resp: 1426848
Ion Ratio Lower Upper
69 100
41 146.8 117.1 175.7
100 31.8 25.0 37.6

Manual Integrations
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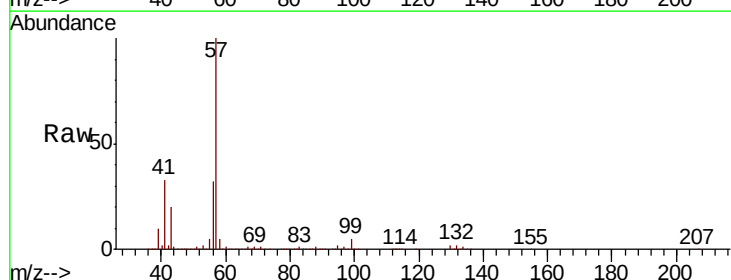


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

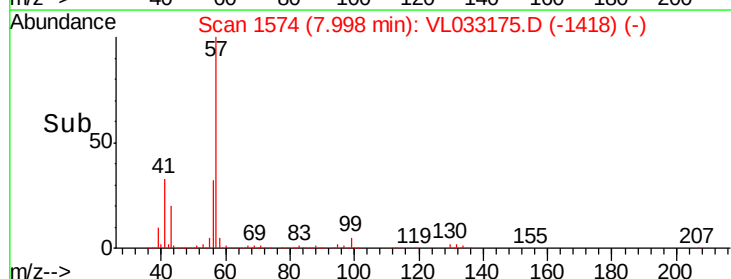
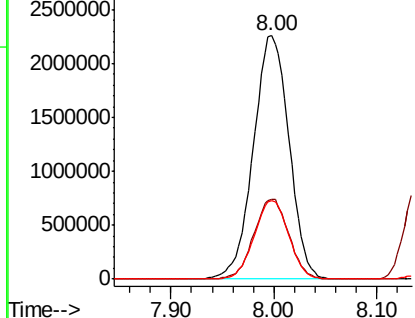


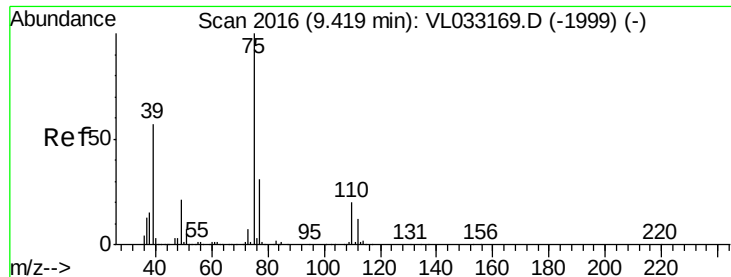
#44
2,2,4-Trimethylpentane
Concen: 12.000 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion: 57 Resp: 5429945
Ion Ratio Lower Upper
57 100
41 32.0 25.2 37.8
56 31.1 24.5 36.7



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 15.620 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tgt Ion: 75 Resp: 1860354

Ion Ratio Lower Upper

75 100

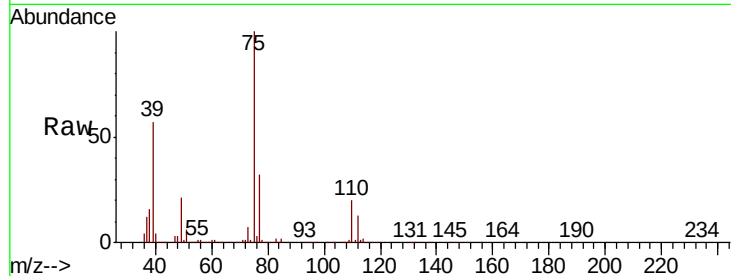
77 31.8 25.0 37.4

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.42

1000000

800000

600000

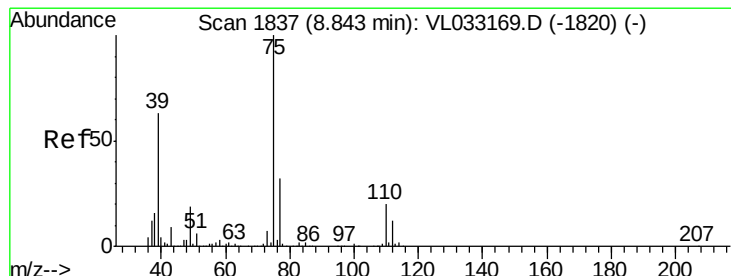
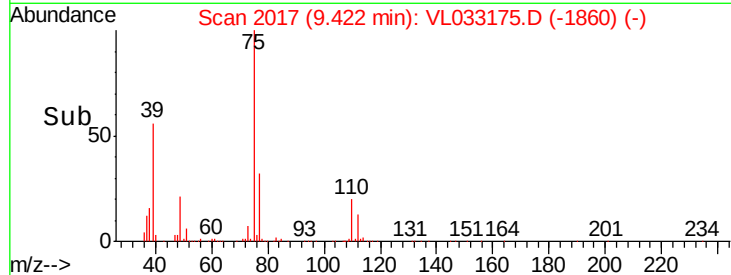
400000

200000

0

9.35 9.40 9.45 9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 13.775 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

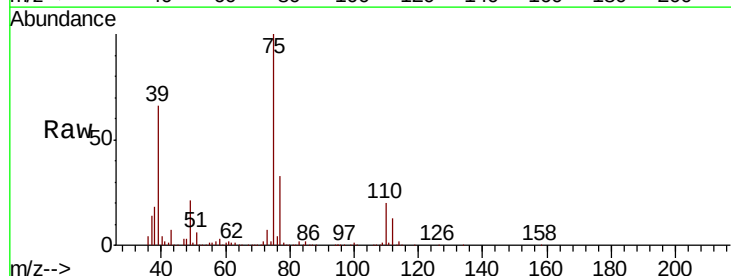
Tgt Ion: 75 Resp: 2089708

Ion Ratio Lower Upper

75 100

39 65.9 50.1 75.1

77 32.9 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.84

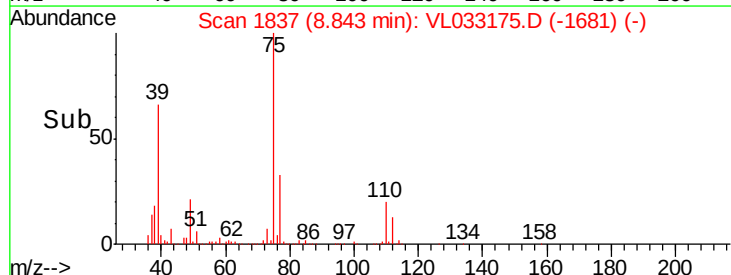
1000000

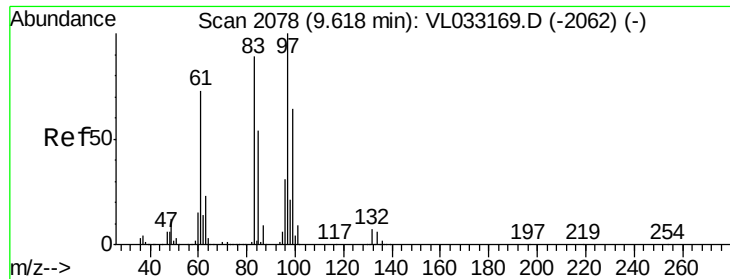
500000

0

8.75 8.80 8.85 8.90

Time-->





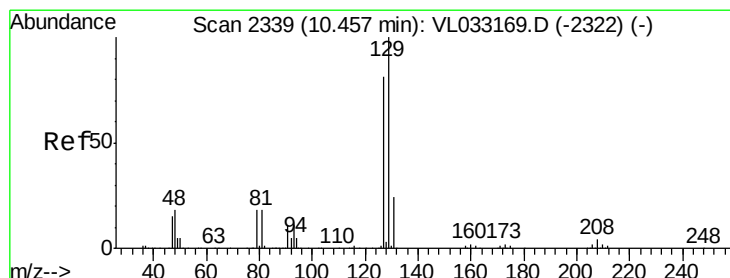
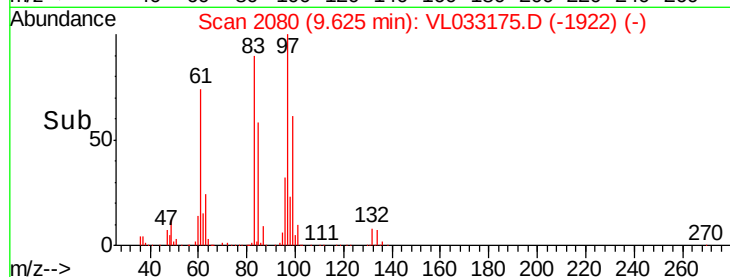
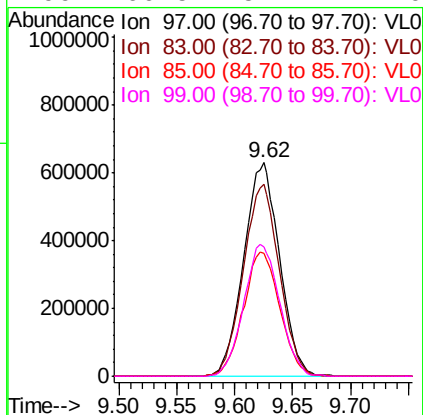
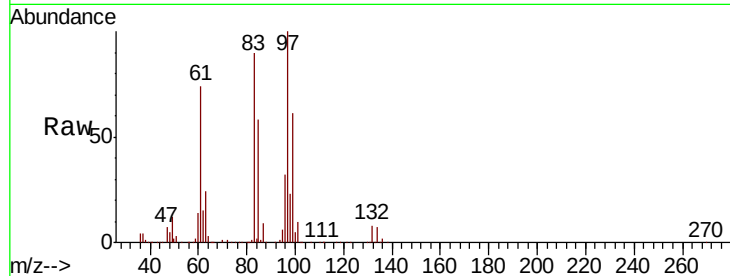
#47
 1,1,2-Trichloroethane
 Concen: 12.414 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Tgt Ion: 97 Resp: 1358660
 Ion Ratio Lower Upper
 97 100
 83 89.8 71.4 107.2
 85 57.6 43.5 65.3
 99 60.5 51.4 77.0

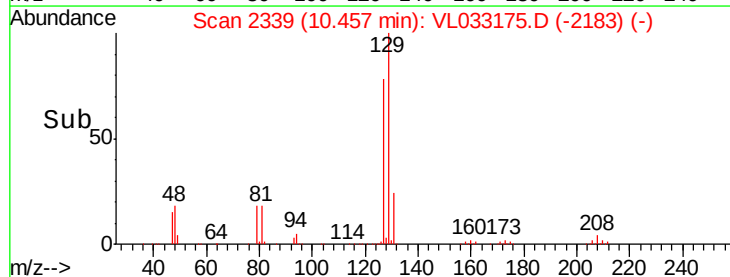
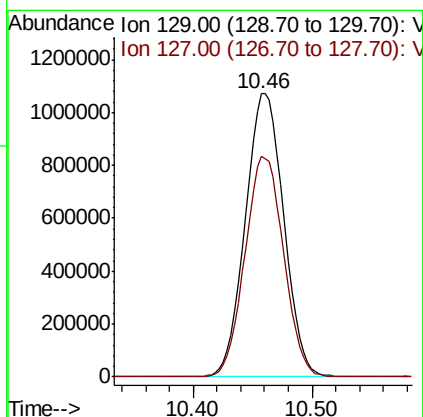
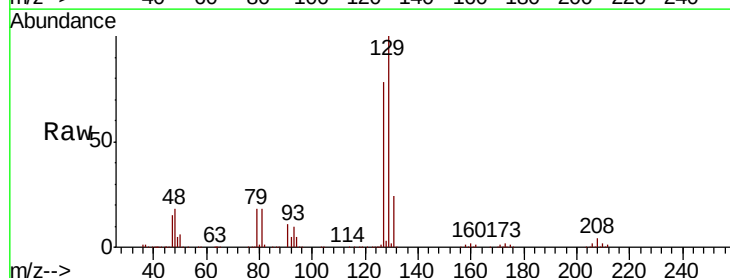
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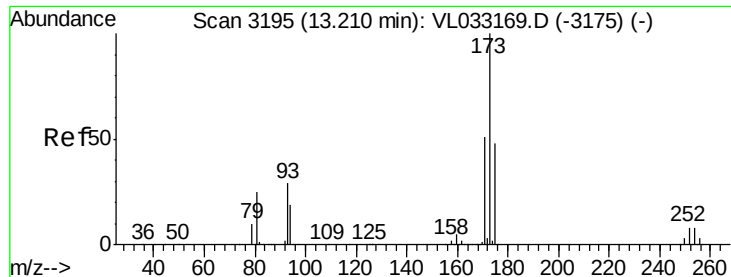
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 2/20/2019 12:21:45 PM



#48
 Dibromochloromethane
 Concen: 13.936 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion: 129 Resp: 2401096
 Ion Ratio Lower Upper
 129 100
 127 78.2 39.1 117.3





#49

Bromoform

Concen: 14.298 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tgt Ion:173 Resp: 2119381

Ion Ratio Lower Upper

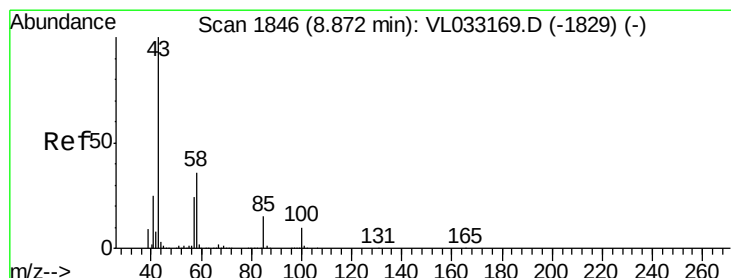
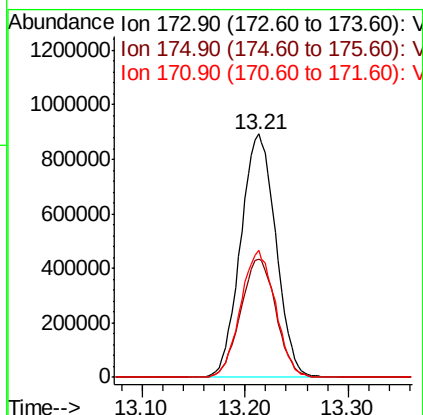
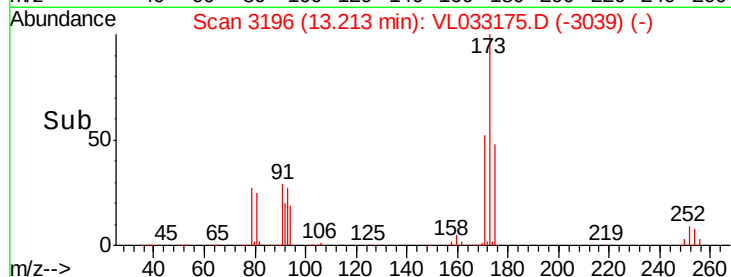
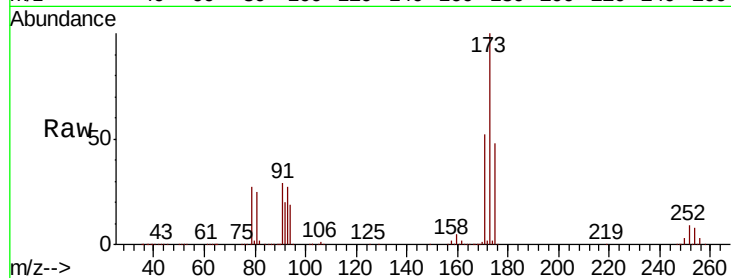
173 100

175 48.7 38.6 58.0

171 51.5 41.6 62.4

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#50

4-Methyl-2-Pentanone

Concen: 12.574 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL033175.D

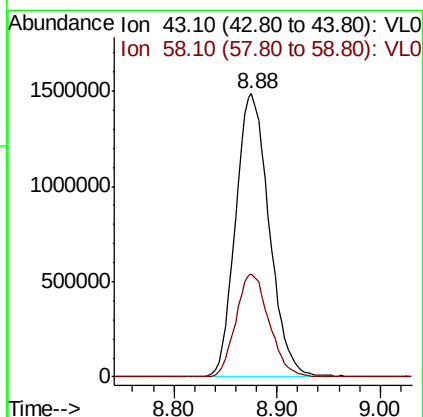
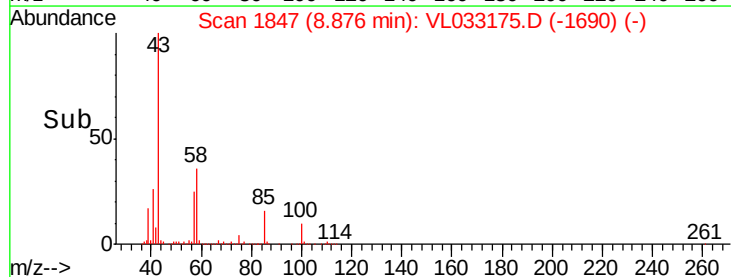
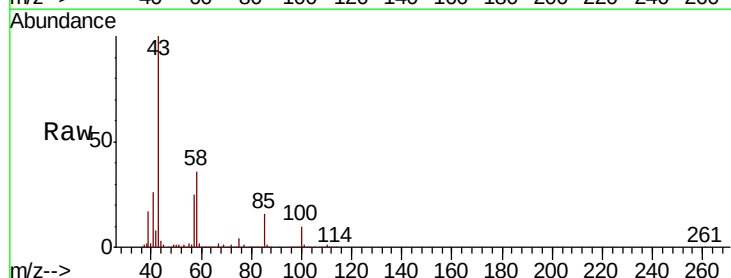
Acq: 6 Feb 2019 5:42

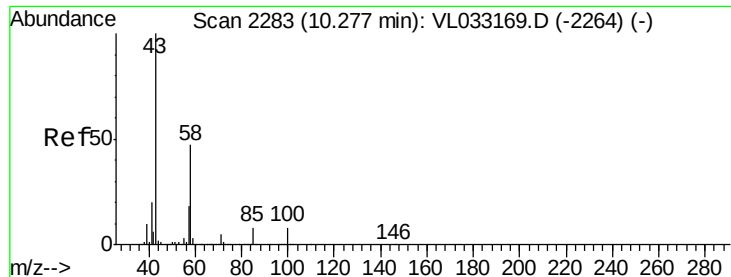
Tgt Ion: 43 Resp: 3369937

Ion Ratio Lower Upper

43 100

58 36.1 29.0 43.6





#51

2-Hexanone

Concen: 13.575 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2868565

Ion Ratio Lower Upper

43 100

58 48.7 39.0 58.6

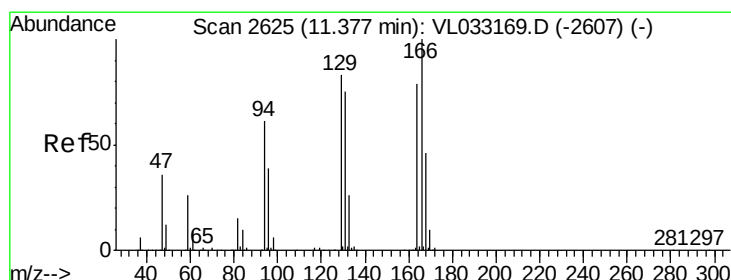
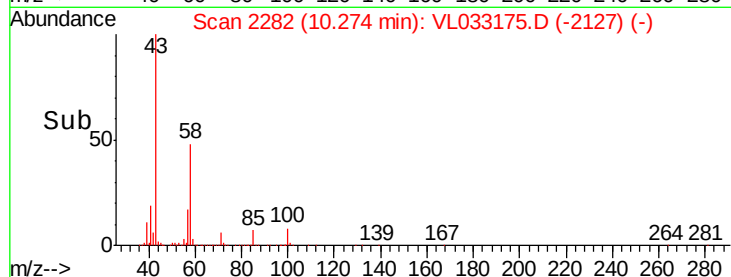
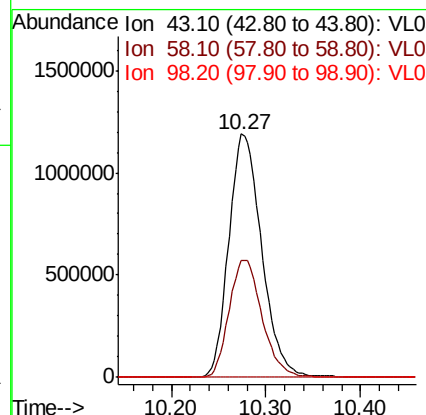
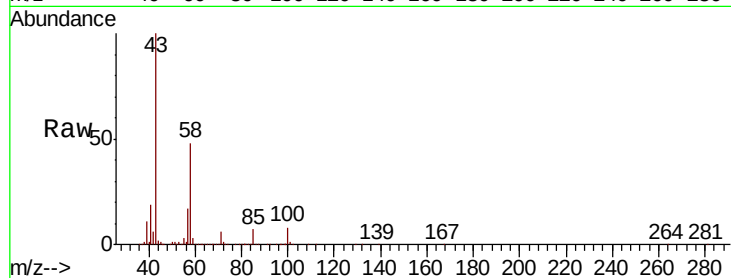
98 0.1 0.1 0.1#

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#52

Tetrachloroethene

Concen: 11.687 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Tgt Ion: 164 Resp: 1198978

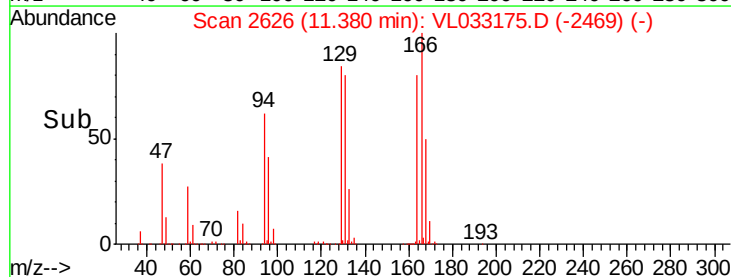
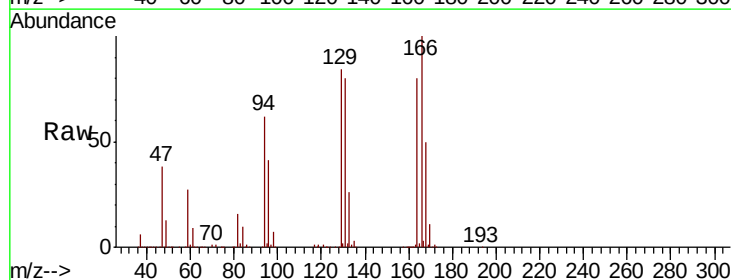
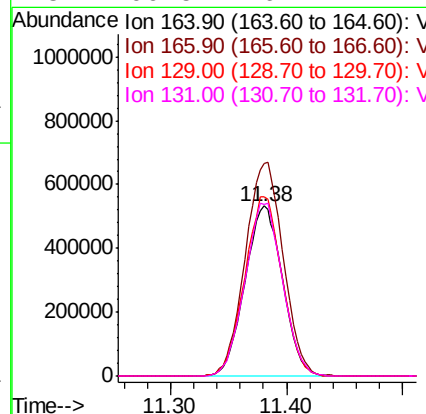
Ion Ratio Lower Upper

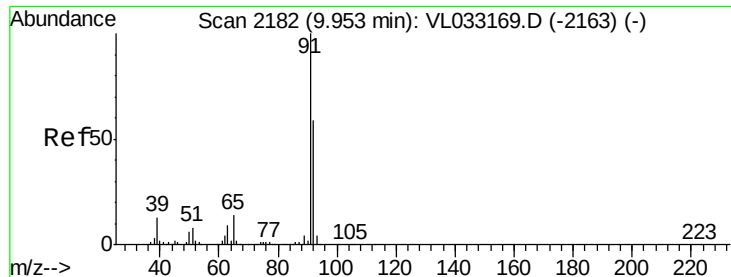
164 100

166 124.9 100.9 151.3

129 105.0 83.9 125.9

131 100.5 76.2 114.2





#53

Toluene

Concen: 12.357 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 3907363

Ion Ratio Lower Upper

91 100

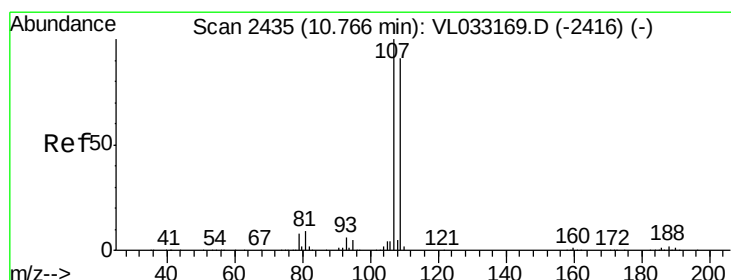
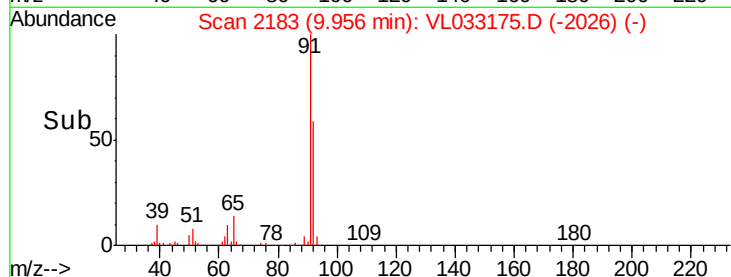
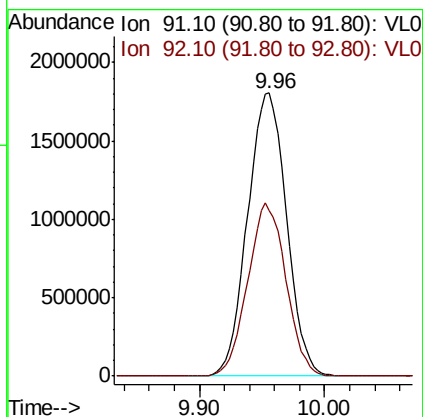
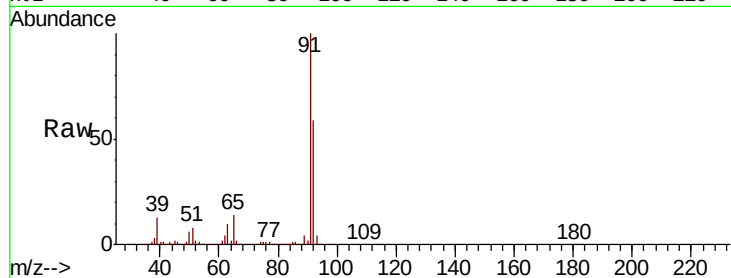
92 60.1 48.0 72.0

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#54

1,2-Dibromoethane

Concen: 12.961 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL033175.D

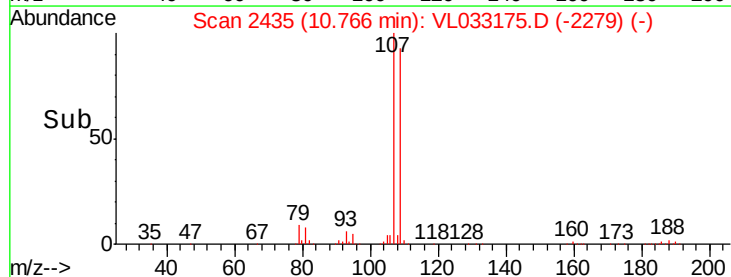
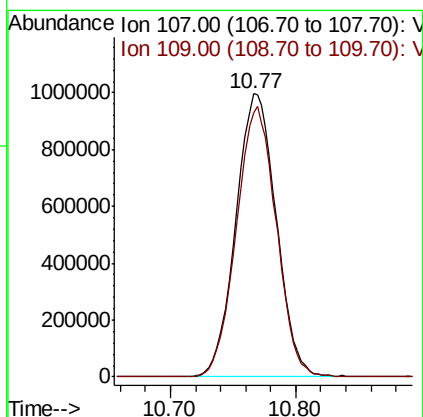
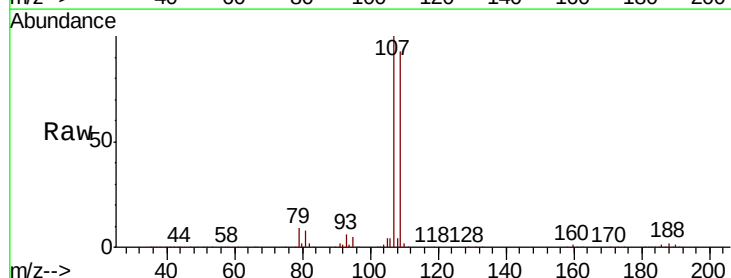
Acq: 6 Feb 2019 5:42

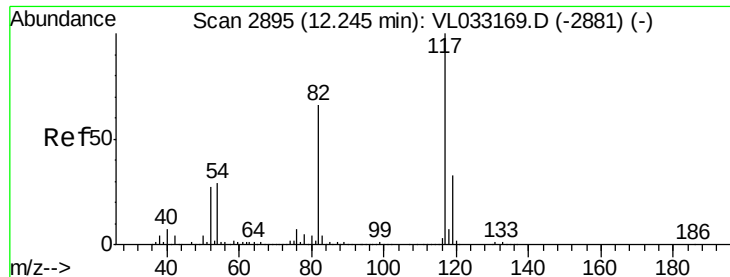
Tgt Ion: 107 Resp: 2224343

Ion Ratio Lower Upper

107 100

109 93.3 73.2 109.8





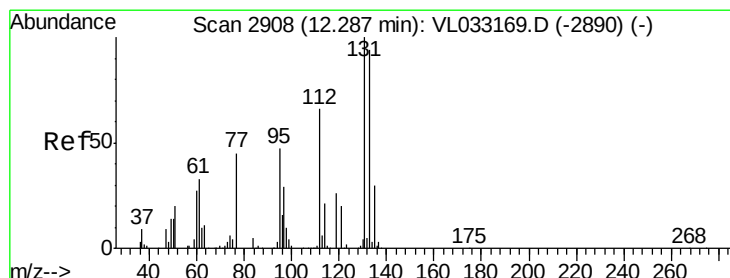
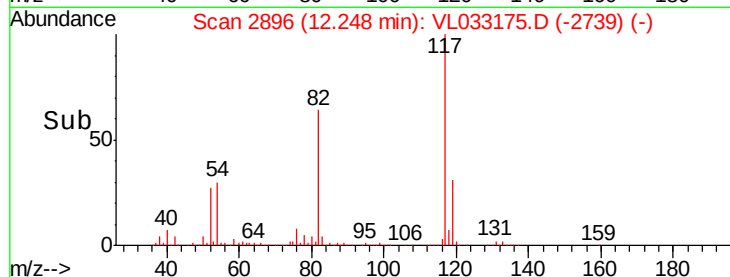
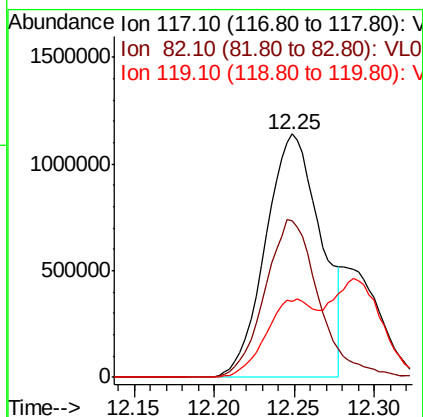
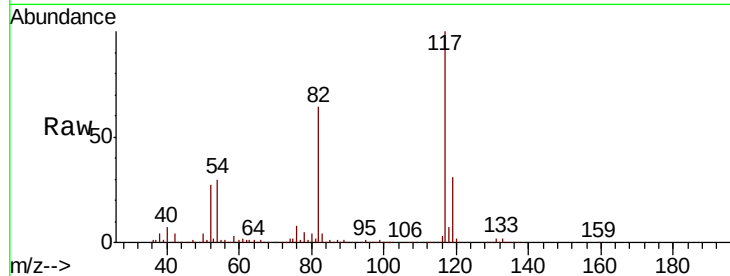
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:117 Resp: 2731871
Ion Ratio Lower Upper
117 100
82 63.7 53.8 80.8
119 67.1 46.9 70.3

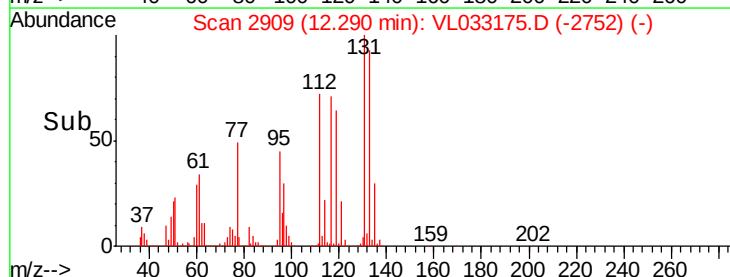
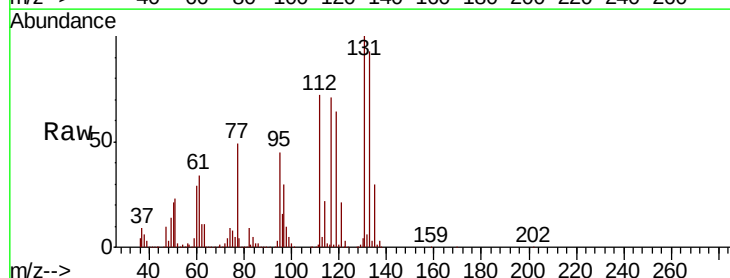
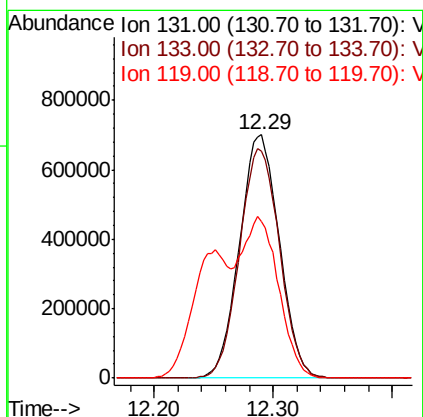
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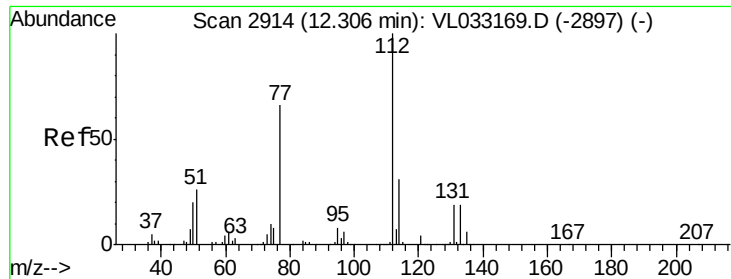
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.735 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion:131 Resp: 1620587
Ion Ratio Lower Upper
131 100
133 95.1 75.8 113.6
119 68.9 48.1 72.1





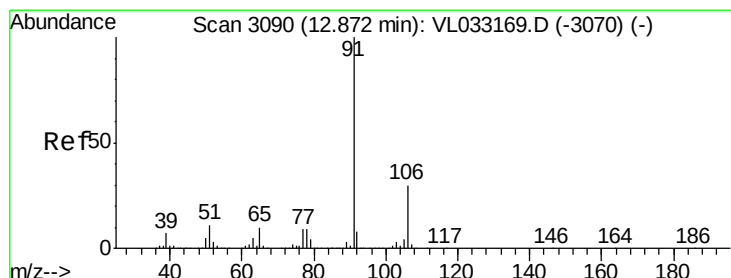
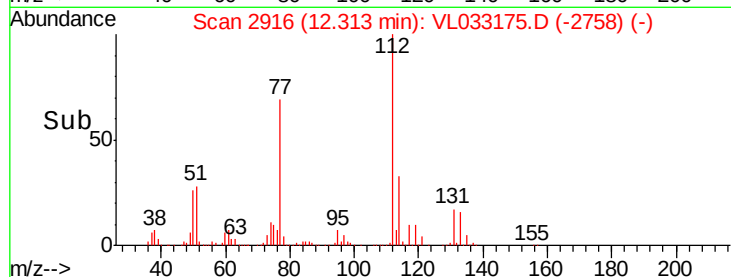
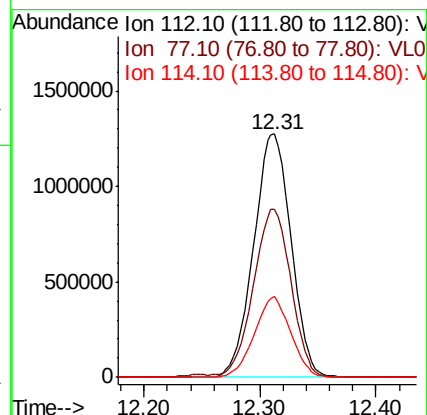
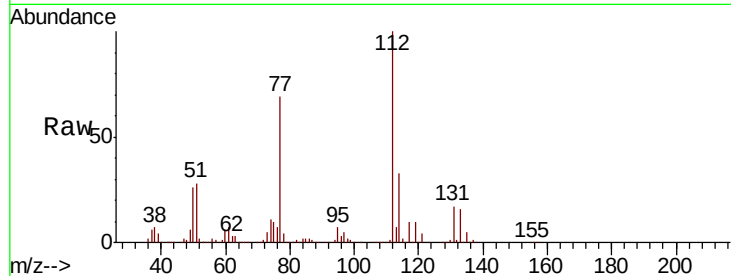
#57
Chlorobenzene
Concen: 11.812 ppbv
RT: 12.31 min Scan# 2916
Delta R.T. 0.01 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 112 Resp: 2856804
Ion Ratio Lower Upper
112 100
77 68.7 54.0 81.0
114 33.1 27.9 34.1

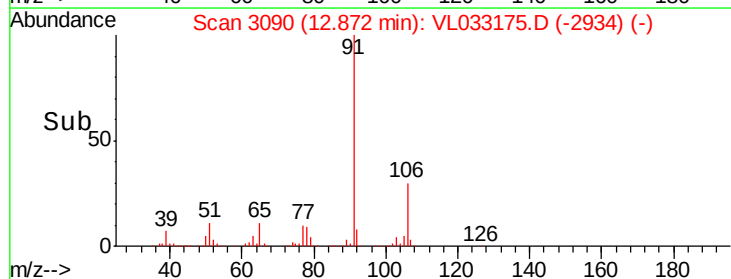
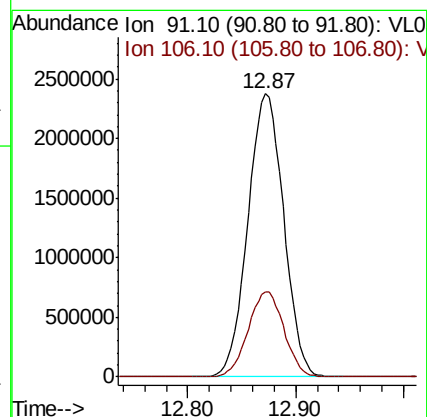
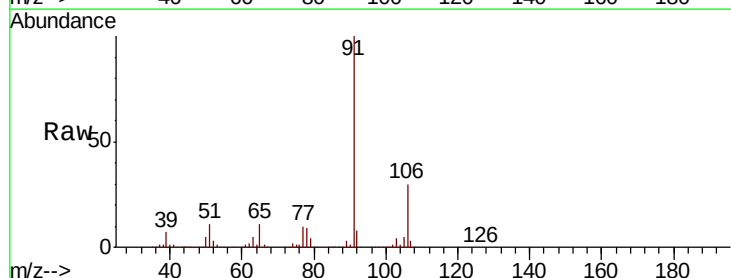
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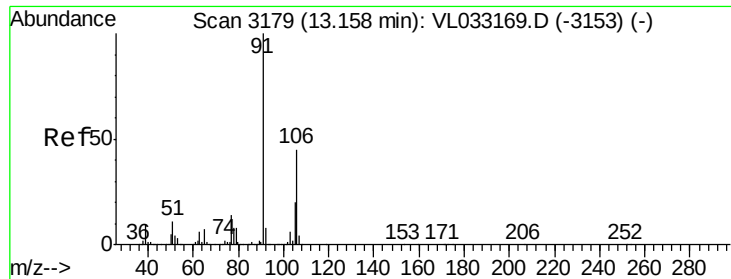
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#58
Ethyl Benzene
Concen: 12.208 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion: 91 Resp: 5475317
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.8





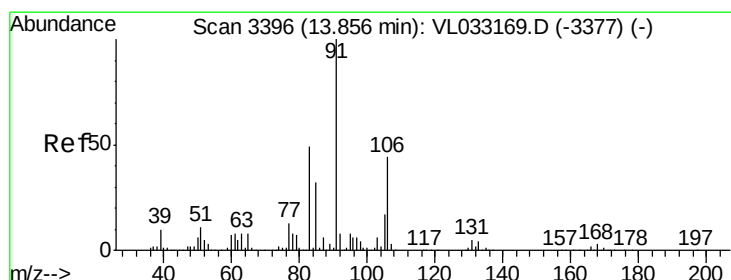
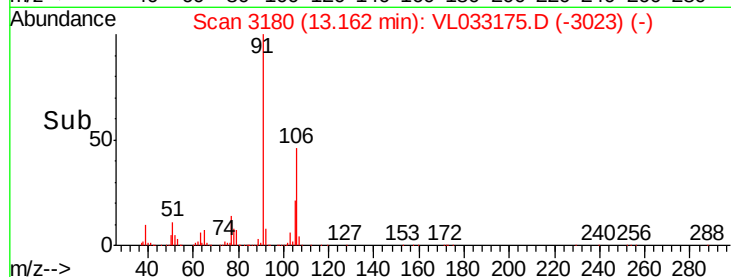
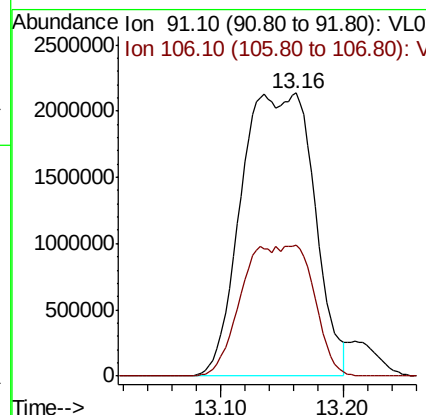
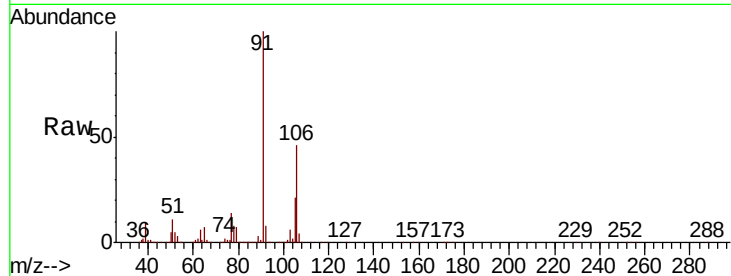
#59
m/p-Xylene
Concen: 23.701 ppbv m
RT: 13.16 min Scan# 3180
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 8842139
Ion Ratio Lower Upper
91 100
106 45.6 36.6 55.0

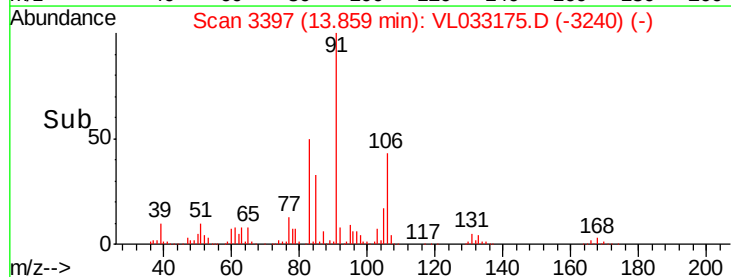
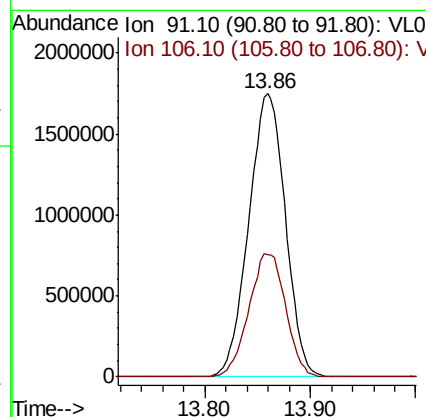
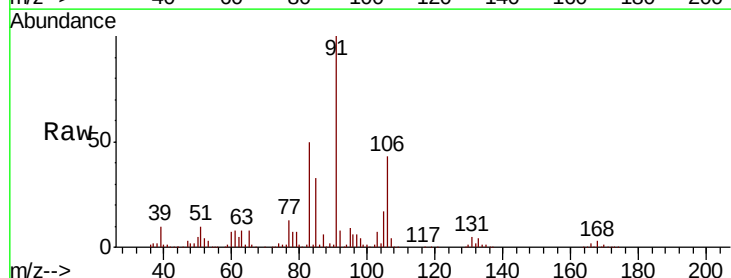
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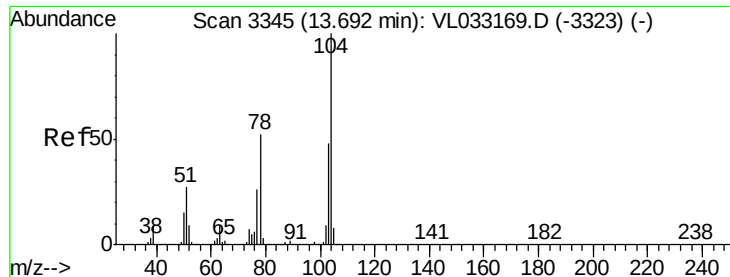
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#60
o-Xylene
Concen: 11.634 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion: 91 Resp: 4232461
Ion Ratio Lower Upper
91 100
106 43.8 21.8 65.3





#61

Styrene

Concen: 12.473 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

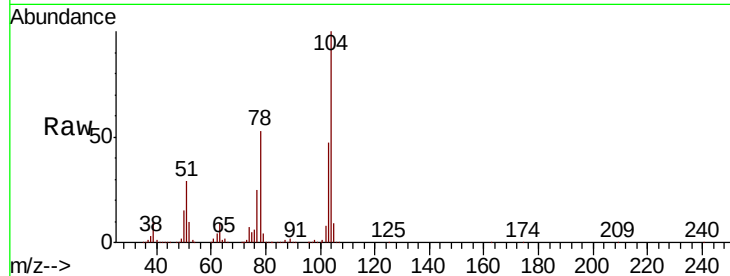
ClientSampleId :

VSTDIC015

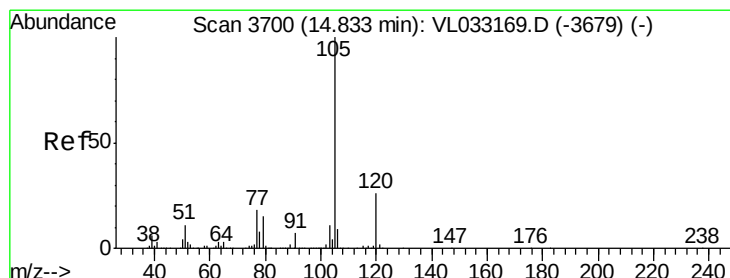
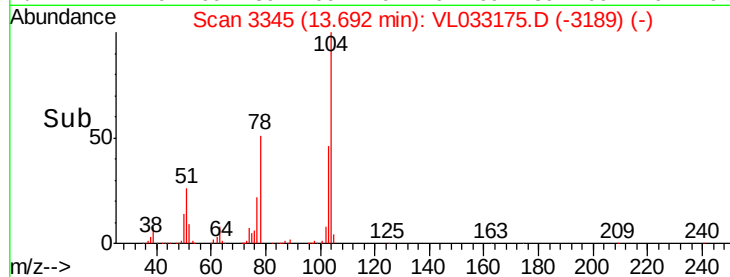
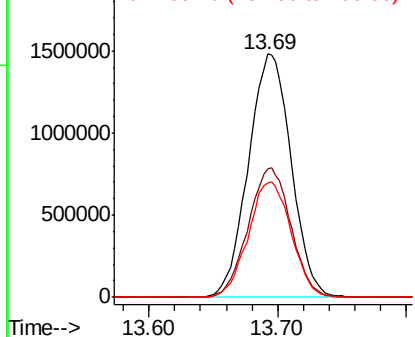
Tgt Ion:	104	Resp:	3425401
Ion	Ratio	Lower	Upper
104	100		
78	53.0	41.9	62.9
103	47.6	37.9	56.9

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Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.919 ppbv

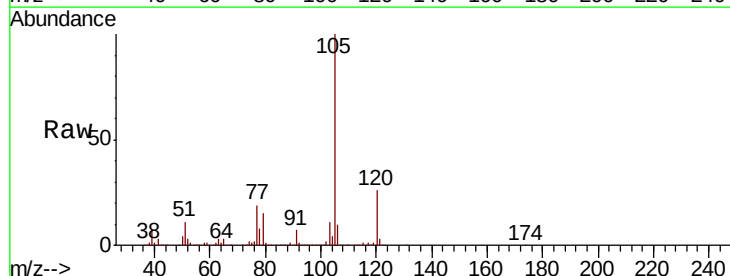
RT: 14.83 min Scan# 3700

Delta R.T. 0.00 min

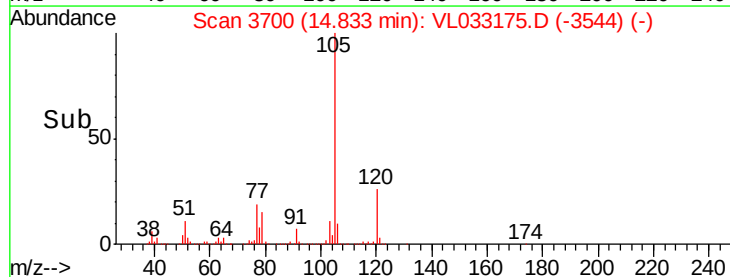
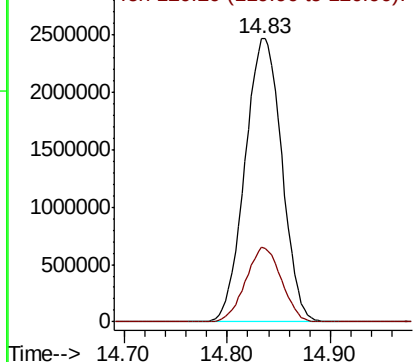
Lab File: VL033175.D

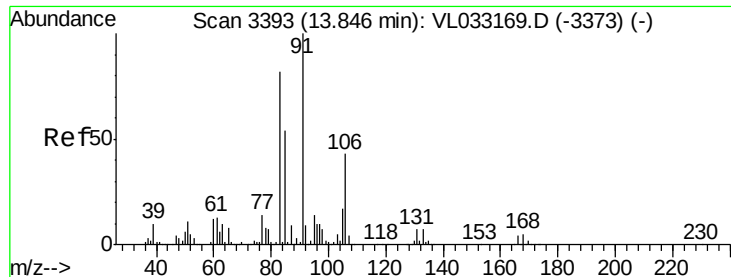
Acq: 6 Feb 2019 5:42

Tgt Ion:	105	Resp:	6117756
Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.3	30.5



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





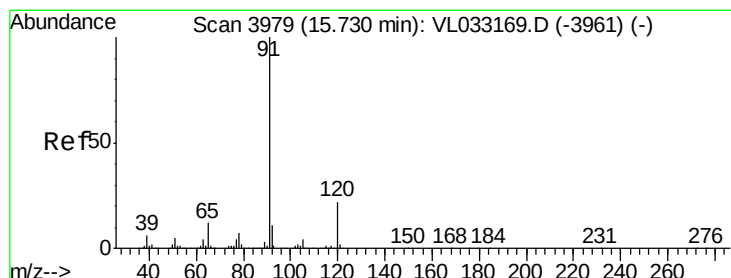
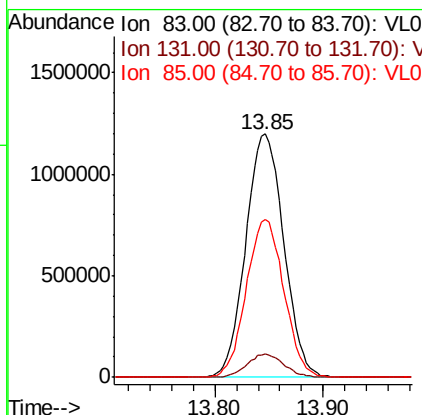
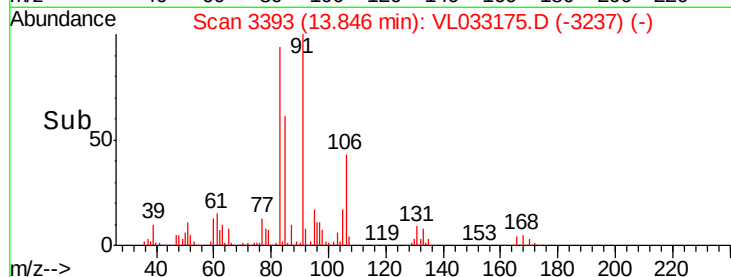
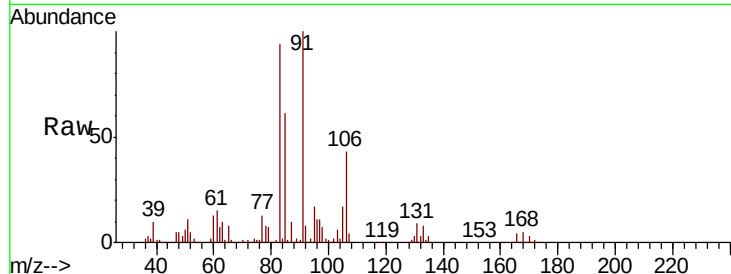
#63
1,1,2,2-Tetrachloroethane
Concen: 10.349 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 83 Resp: 2942684
Ion Ratio Lower Upper
83 100
131 9.3 4.8 14.3
85 64.2 32.8 98.3

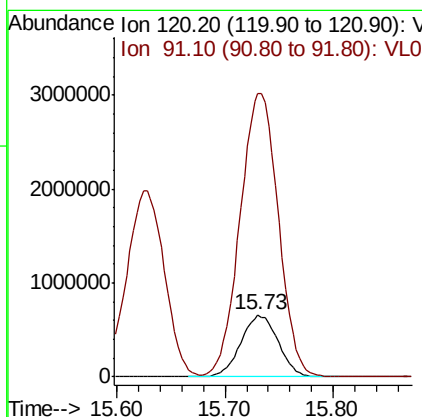
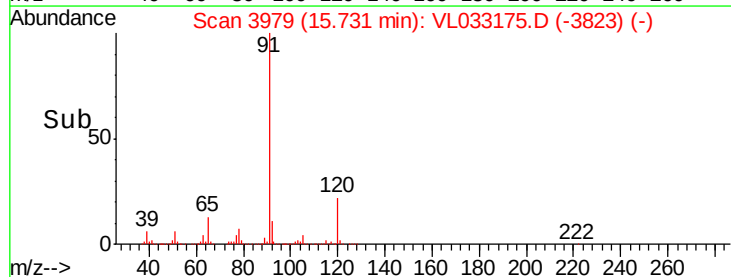
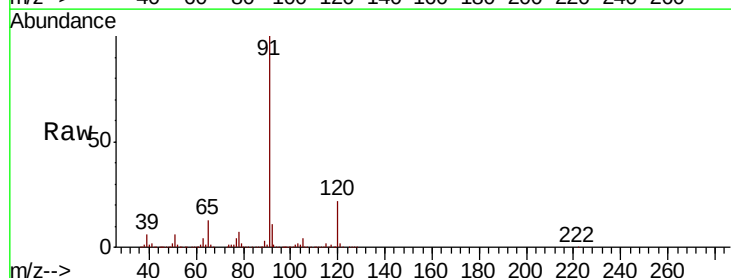
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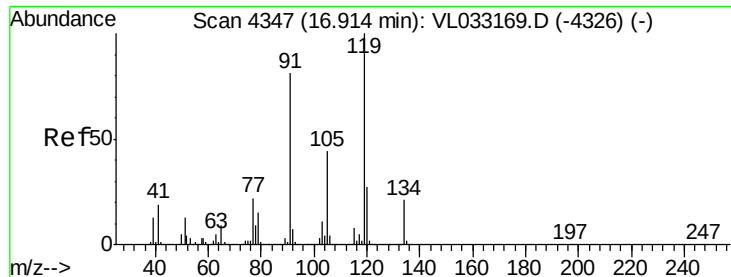
MMDadoda
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#64
n-propylbenzene
Concen: 12.108 ppbv
RT: 15.73 min Scan# 3979
Delta R.T. 0.00 min
Lab File: VL033175.D
Acq: 6 Feb 2019 5:42

Tgt Ion: 120 Resp: 1579943
Ion Ratio Lower Upper
120 100
91 471.8 383.9 575.9





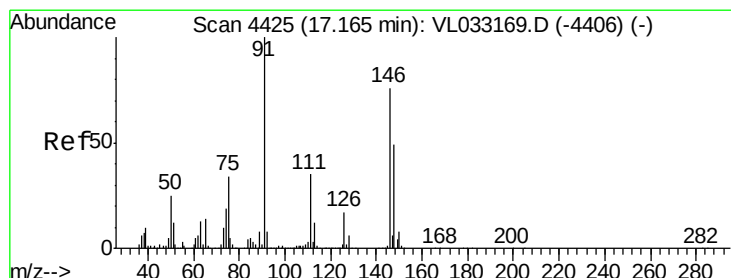
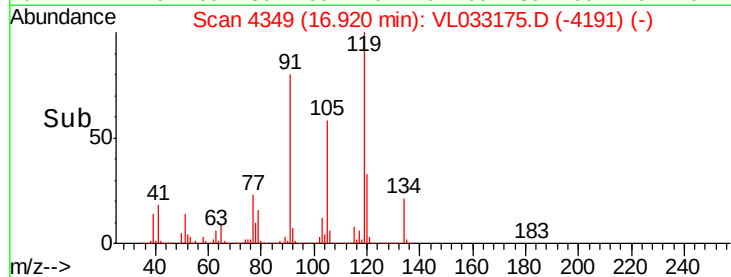
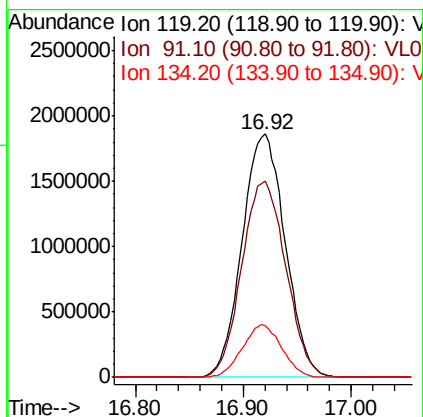
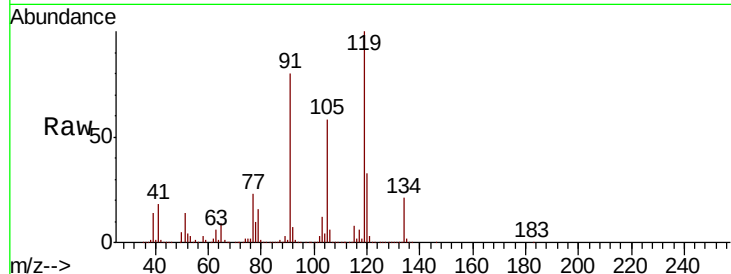
#65
 tert-Butylbenzene
 Concen: 11.539 ppbv
 RT: 16.92 min Scan# 4349
 Delta R.T. 0.01 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 119 Resp: 5157040
 Ion Ratio Lower Upper
 119 100
 91 82.7 65.6 98.4
 134 19.8 15.8 23.8

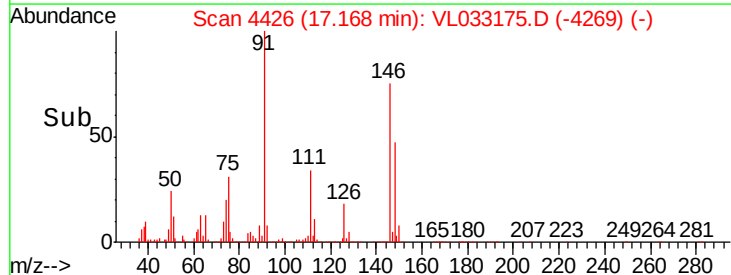
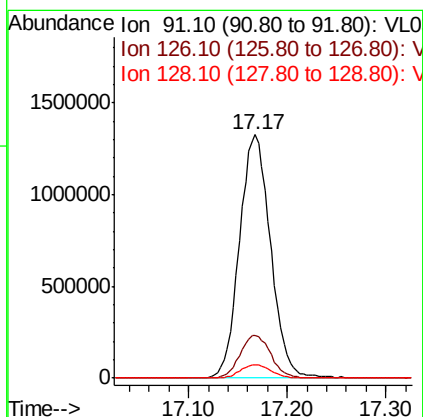
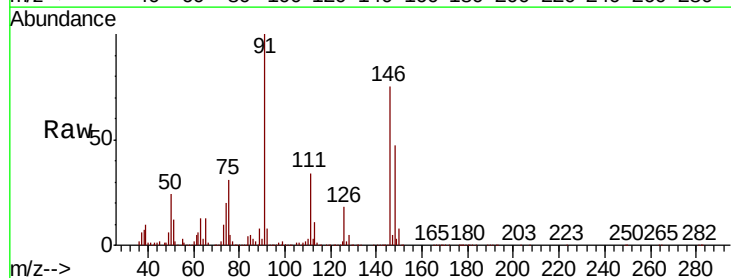
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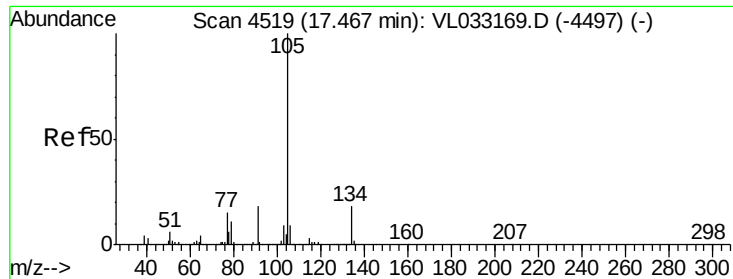
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#66
 Benzyl Chloride
 Concen: 18.119 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion: 91 Resp: 2894279
 Ion Ratio Lower Upper
 91 100
 126 17.4 13.8 20.6
 128 5.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 11.547 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 105 Resp: 7491704

Ion Ratio Lower Upper

105 100

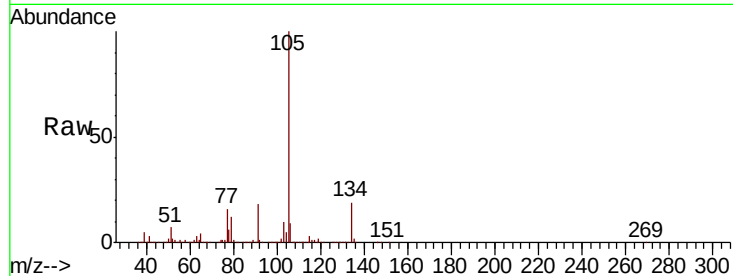
134 18.3 14.6 22.0

Manual Integrations

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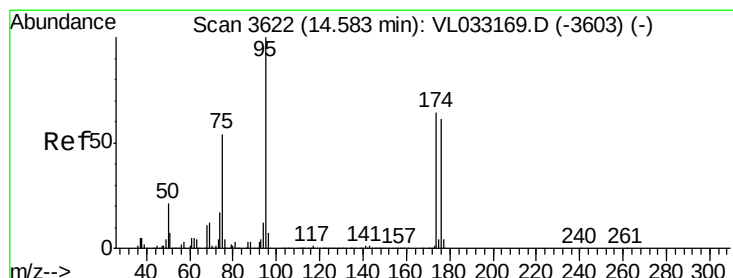
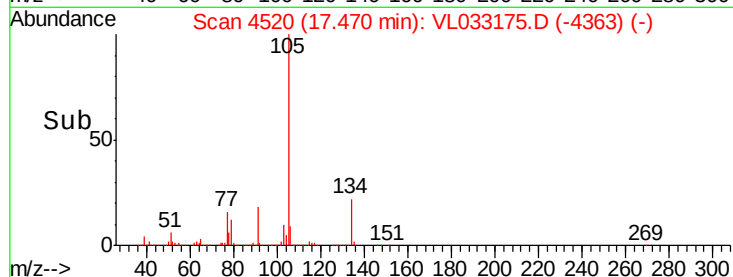
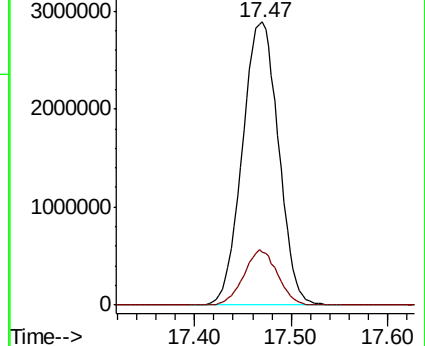
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.611 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

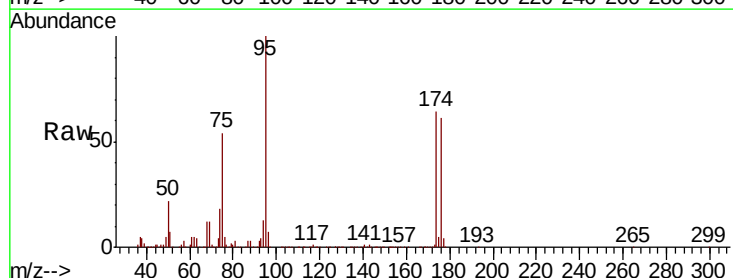
Tgt Ion: 95 Resp: 2046404

Ion Ratio Lower Upper

95 100

174 63.6 51.1 76.7

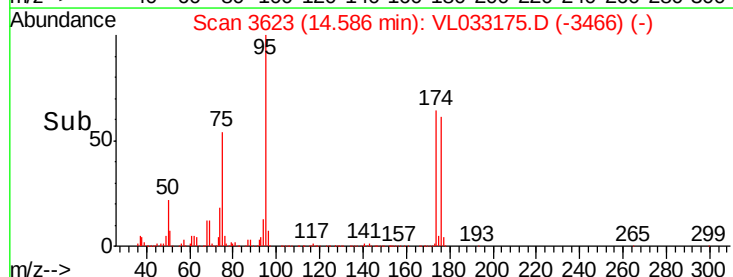
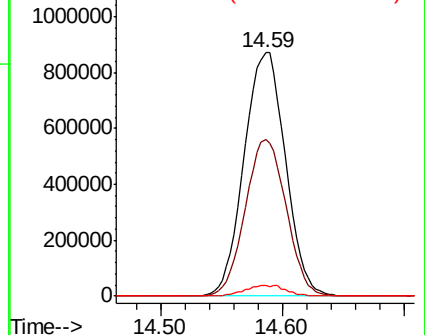
175 4.6 3.8 5.6

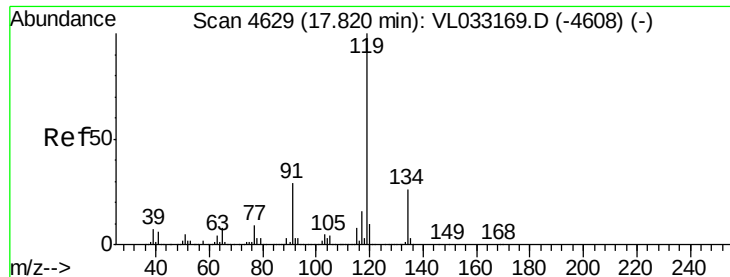


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





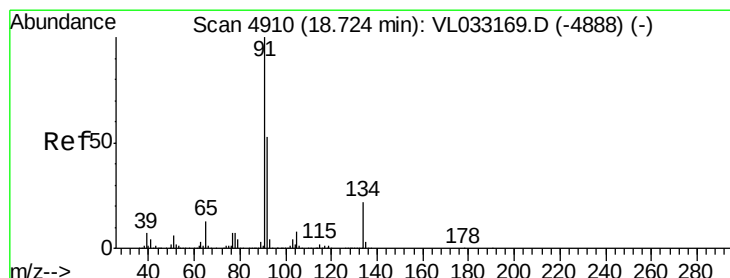
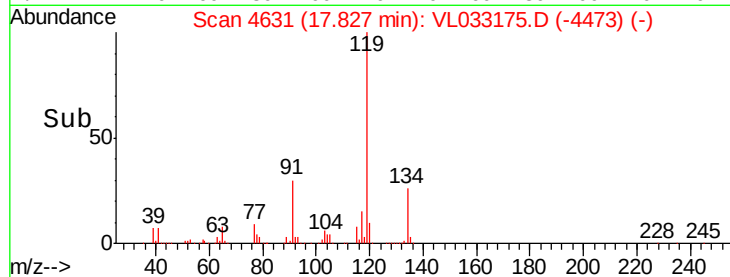
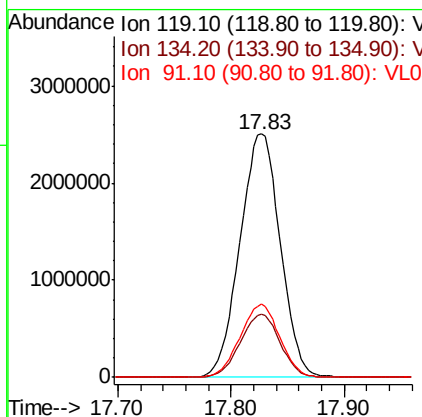
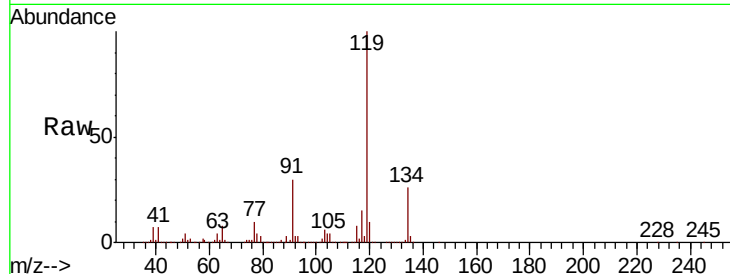
#69
 p-Isopropyltoluene
 Concen: 11.474 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. 0.01 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 119 Resp: 6199936
 Ion Ratio Lower Upper
 119 100
 134 25.6 20.4 30.6
 91 29.5 23.4 35.0

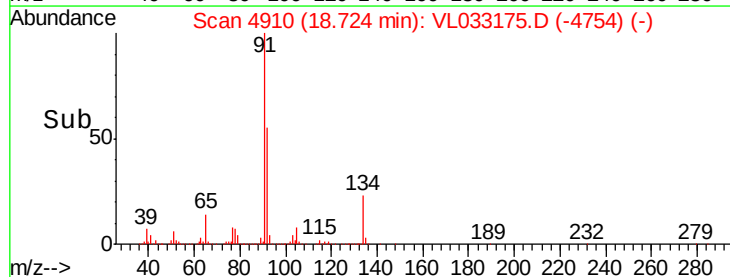
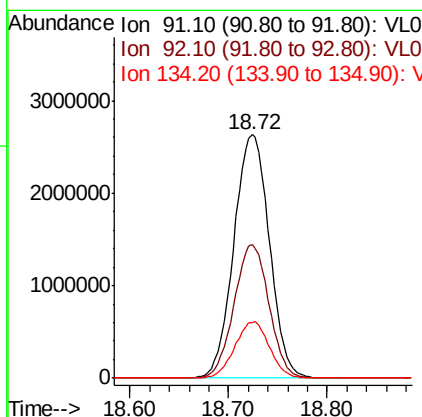
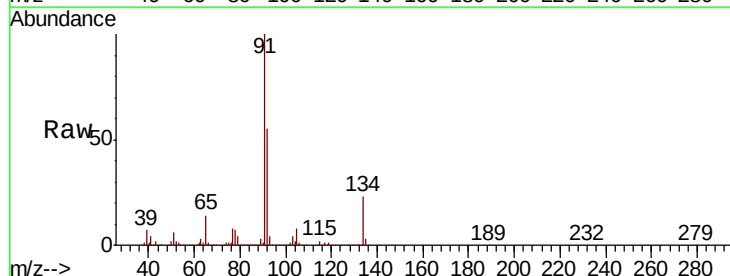
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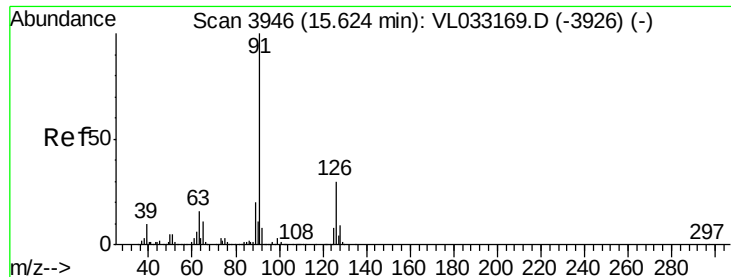
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#70
 n-Butylbenzene
 Concen: 11.261 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion: 91 Resp: 6564513
 Ion Ratio Lower Upper
 91 100
 92 54.3 43.0 64.4
 134 22.6 17.5 26.3





#71

2-Chlorotoluene

Concen: 11.955 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 4821553

Ion Ratio Lower Upper

91 100

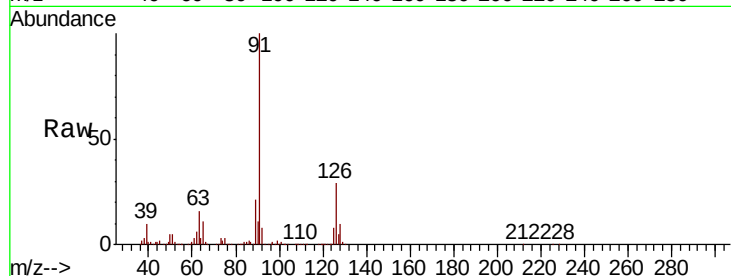
126 29.9 11.8 47.4

Manual Integrations

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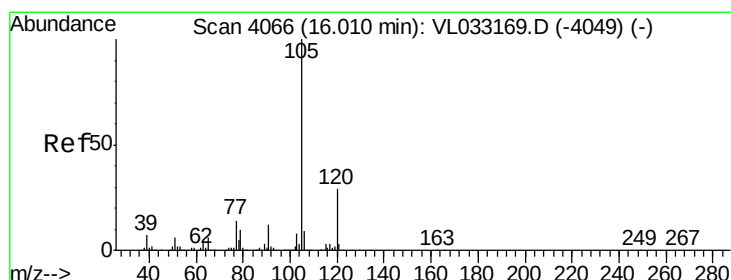
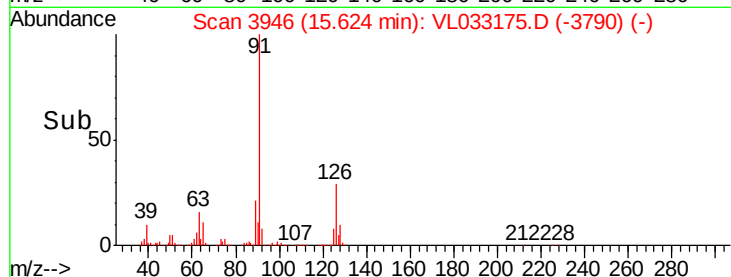
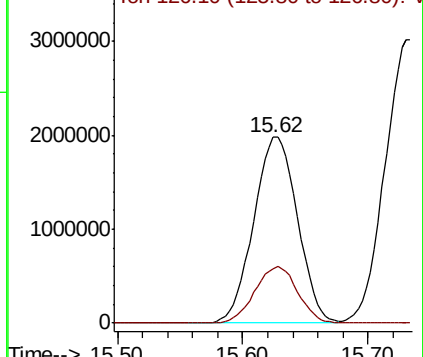
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 12.300 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Tgt Ion: 105 Resp: 5160886

Ion Ratio Lower Upper

105 100

120 29.0 23.1 34.7

91 12.6 9.8 14.6

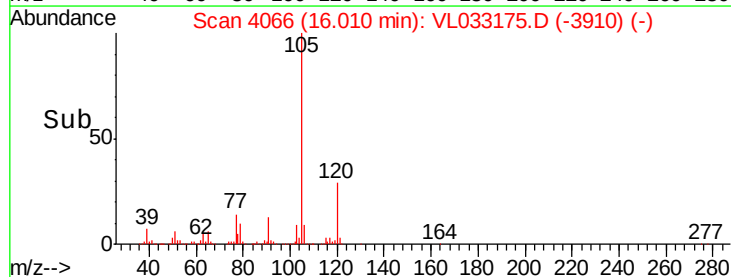
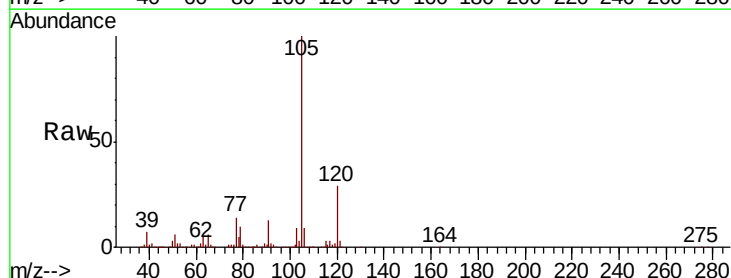
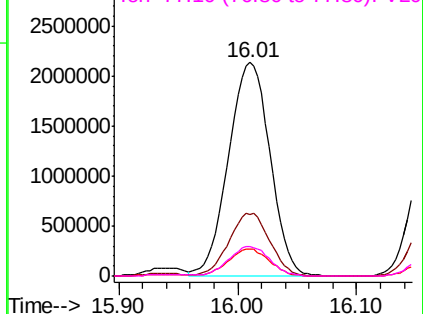
77 13.7 10.9 16.3

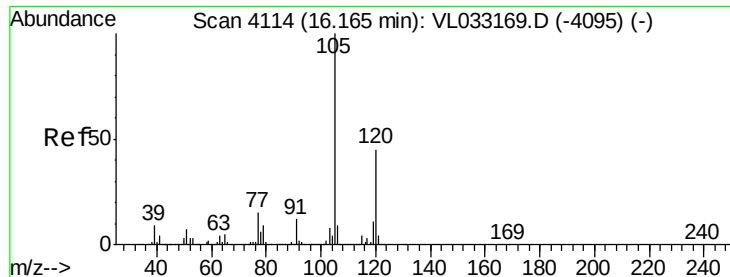
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 12.166 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 4881838

Ion Ratio Lower Upper

105 100

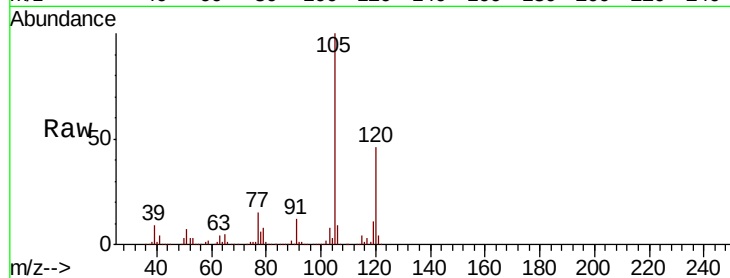
120 45.7 36.2 54.4

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

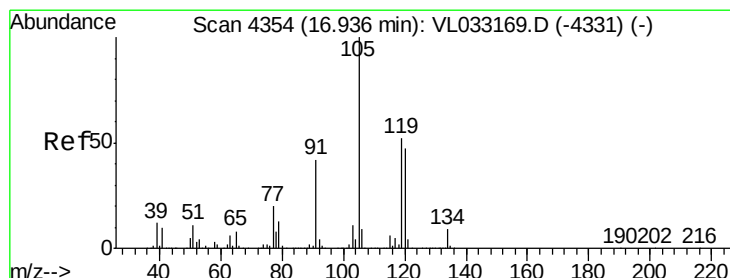
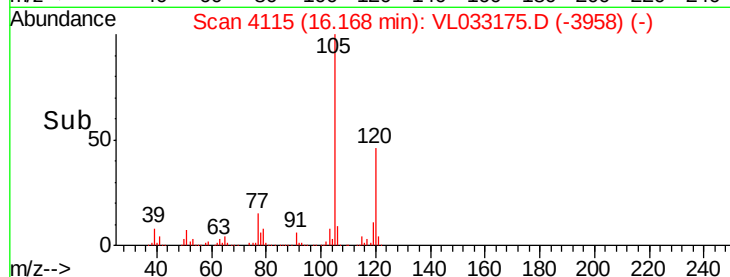
1000000

500000

0

16.10 16.17 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 11.453 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Tgt Ion:105 Resp: 4766705

Ion Ratio Lower Upper

105 100

120 46.2 37.9 56.9

91 49.6 34.0 51.0

77 21.8 15.7 23.5

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

3000000

2500000

2000000

1500000

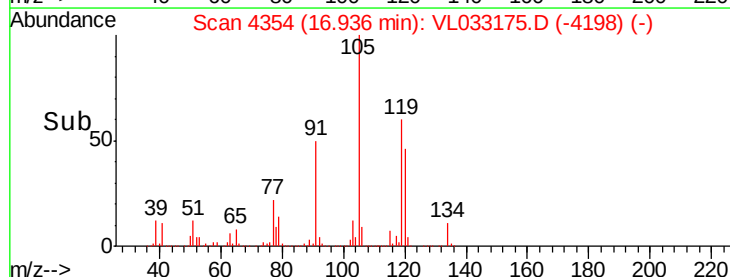
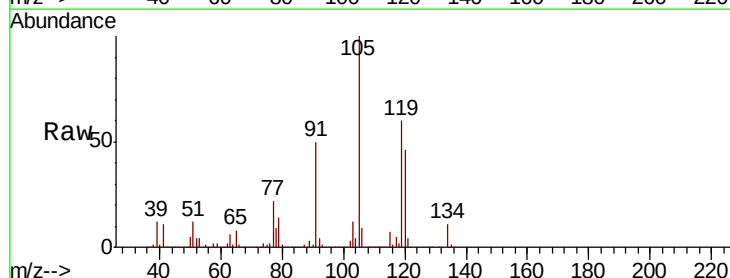
1000000

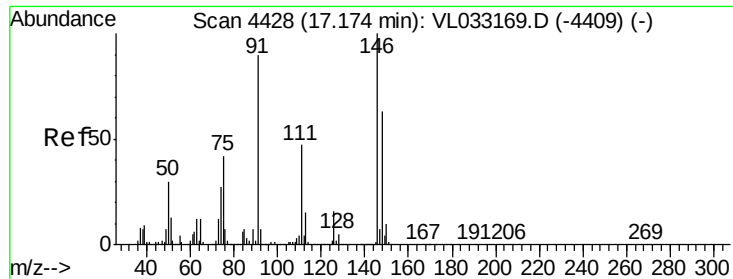
500000

0

16.80 16.94 17.00

Time-->





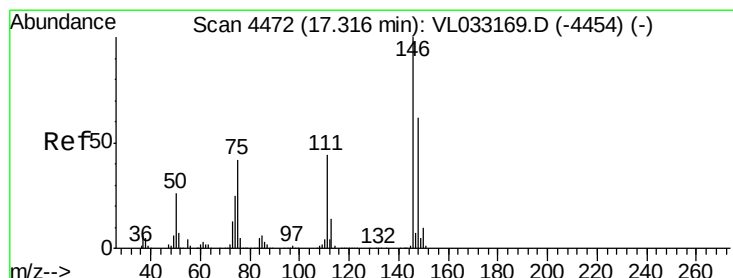
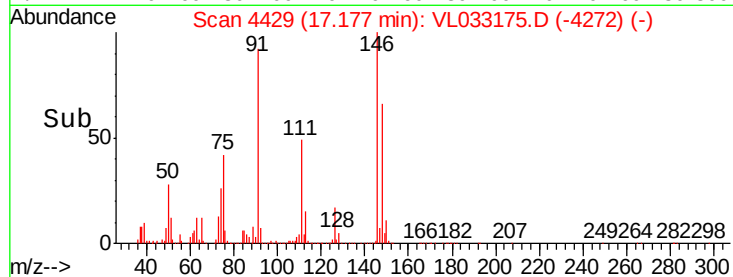
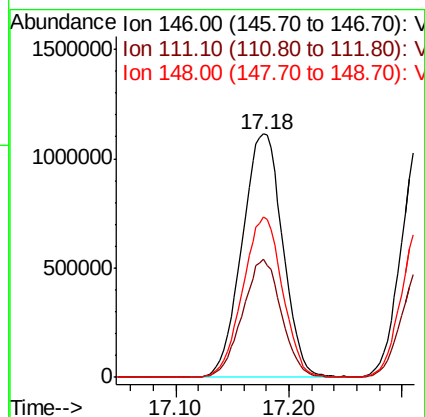
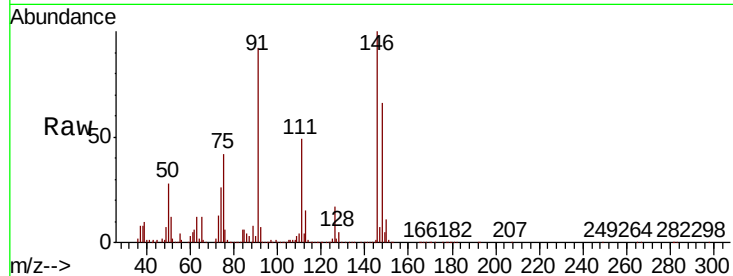
#75
 1,3-Dichlorobenzene
 Concen: 11.584 ppbv
 RT: 17.18 min Scan# 4429
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tgt Ion:146 Resp: 2780495
 Ion Ratio Lower Upper
 146 100
 111 46.4 23.2 69.6
 148 64.4 31.8 95.4

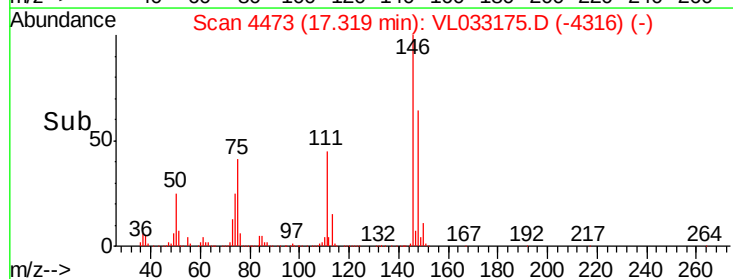
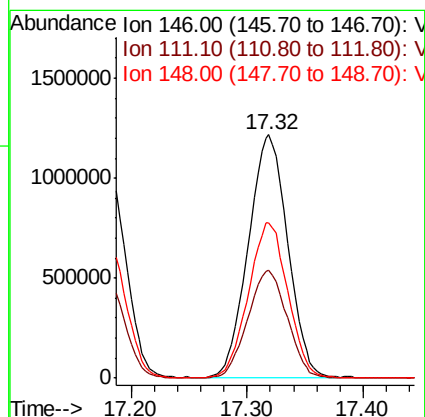
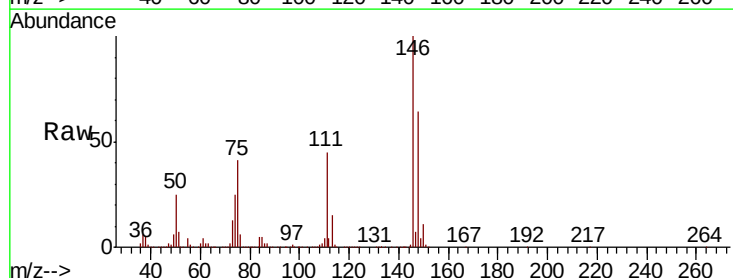
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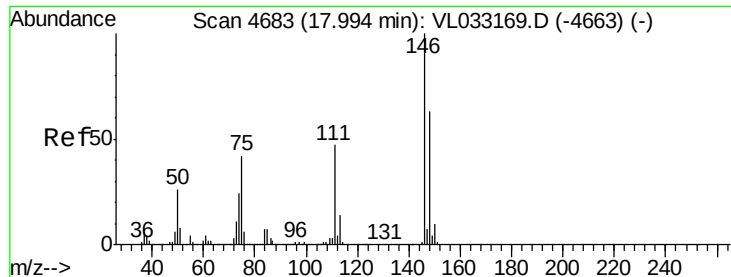
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#76
 1,4-Dichlorobenzene
 Concen: 12.046 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion:146 Resp: 2864726
 Ion Ratio Lower Upper
 146 100
 111 44.3 22.3 66.9
 148 63.9 32.0 96.0





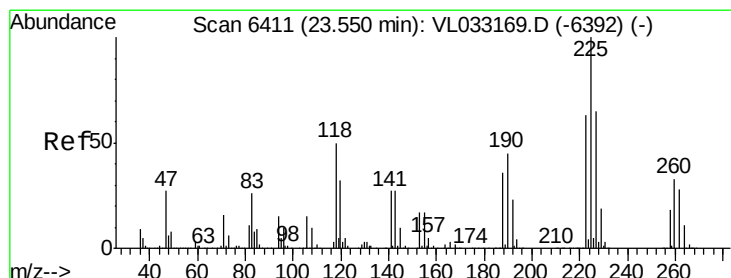
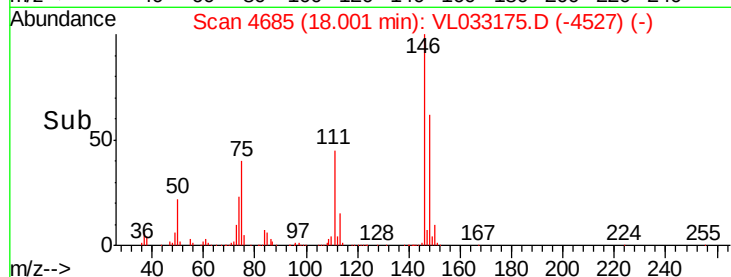
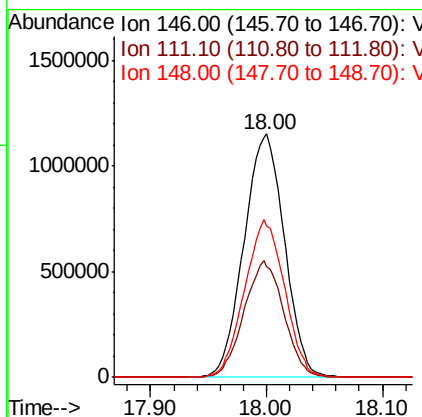
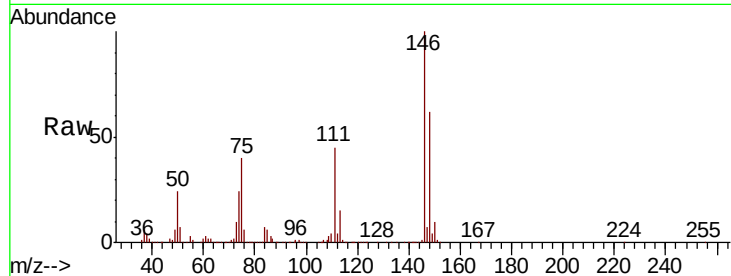
#77
 1,2-Dichlorobenzene
 Concen: 11.799 ppbv
 RT: 18.00 min Scan# 4685
 Delta R.T. 0.01 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.5	70.6
148	64.2	31.9	95.7

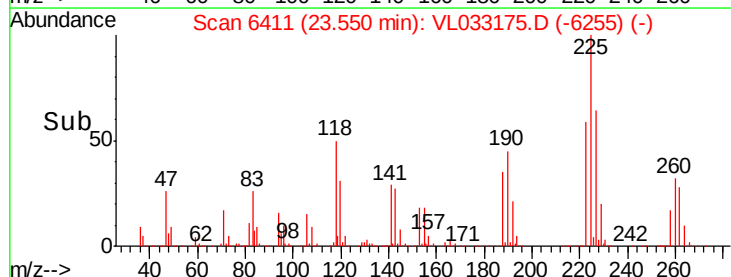
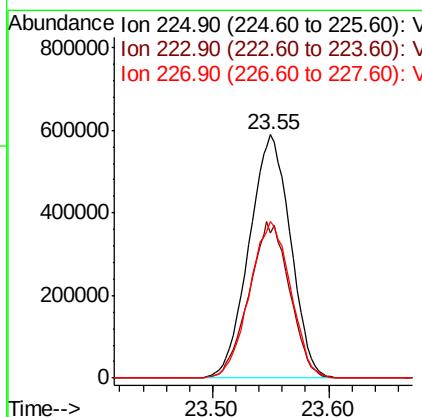
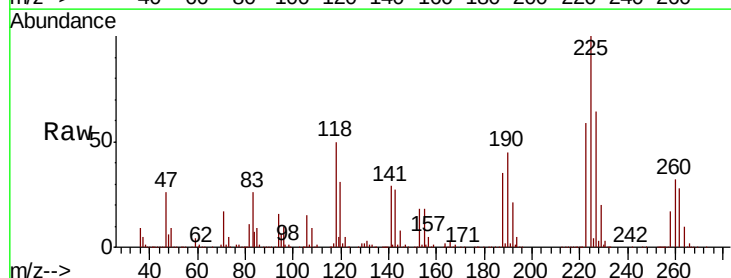
Manual Integrations
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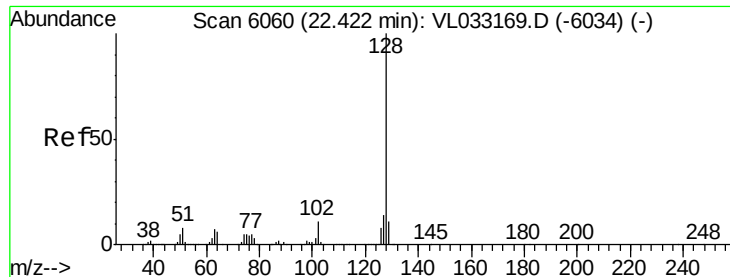
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 12.385 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.6	75.8
227	63.8	51.4	77.2





#79

Naphthalene

Concen: 11.803 ppbv

RT: 22.42 min Scan# 6060

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:128 Resp: 5278913

Ion Ratio Lower Upper

128 100

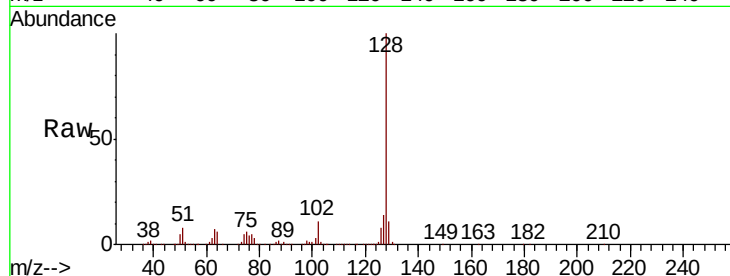
127 13.6 11.0 16.4

129 11.2 8.6 12.8

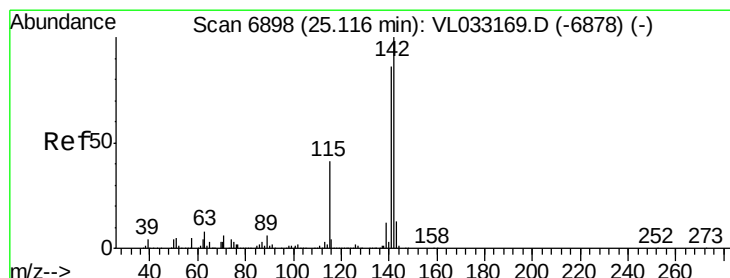
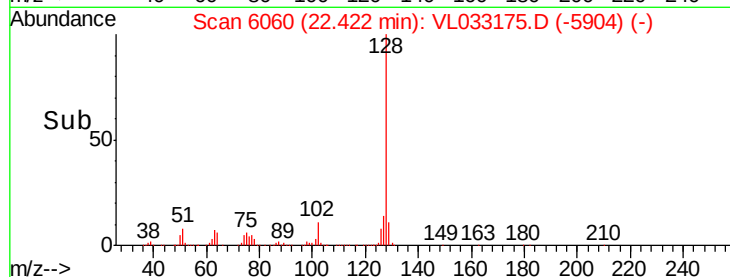
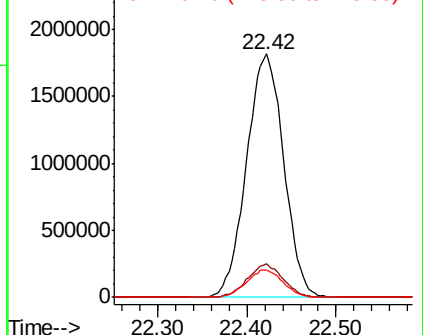
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 11.185 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.00 min

Lab File: VL033175.D

Acq: 6 Feb 2019 5:42

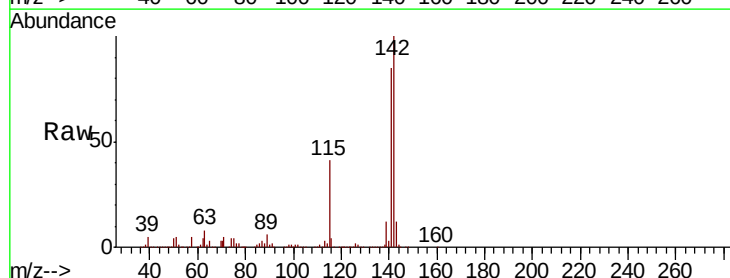
Tgt Ion:142 Resp: 2530171

Ion Ratio Lower Upper

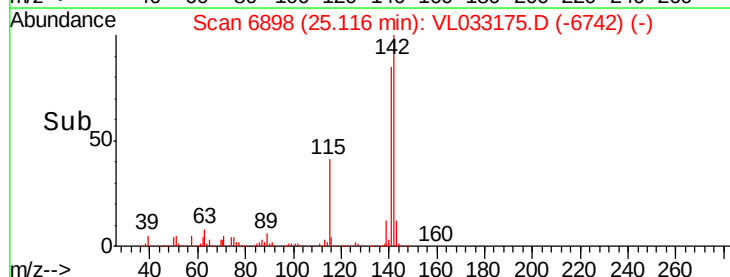
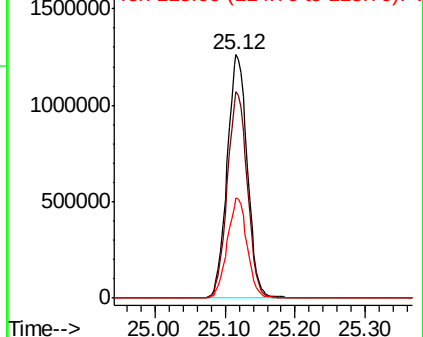
142 100

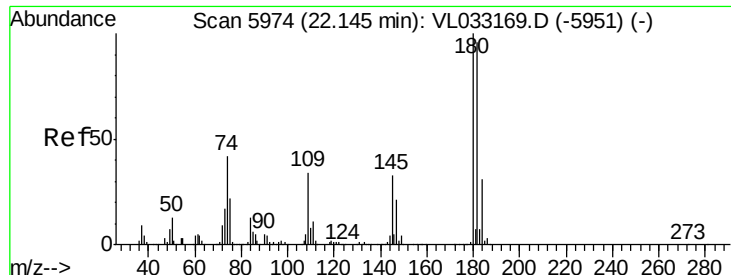
141 84.5 67.7 101.5

115 40.3 32.7 49.1



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.360 ppbv
 RT: 22.15 min Scan# 5974
 Delta R.T. 0.00 min
 Lab File: VL033175.D
 Acq: 6 Feb 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.8	113.8
184	30.7	24.3	36.5

Manual Integrations
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