

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033122.D
 Acq On : 28 Jan 2019 21:51
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
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 1/29/2019 2:36:36 PM

Quant Time: Jan 28 22:43:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
 QLast Update : Mon Jan 28 16:32:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1204122	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3176946	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2956177	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2033296	8.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	312781	1.396	ppbv	98
3) Chlorodifluoromethane	3.01	51	173098	1.270	ppbv	99
4) Chloromethane	3.17	50	94538	1.211	ppbv	93
5) Vinyl Chloride	3.29	62	97022	1.231	ppbv	93
6) Bromomethane	3.51	94	63924	1.193	ppbv	98
7) Chloroethane	3.60	64	36057	1.169	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	250180	1.296	ppbv	98
9) Propene	3.04	41	66377	1.304	ppbv	97
10) Heptane	8.25	43	158232	1.091	ppbv	96
11) Trichlorofluoromethane	4.00	101	265675	1.073	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	187554	1.198	ppbv	97
13) Ethanol	3.65	45	27492m	1.354	ppbv	
14) Bromoethene	3.79	108	77038	1.114	ppbv	98
15) Acetone	3.90	43	178385	1.070	ppbv	95
16) 1,3-Butadiene	3.36	39	68607	1.092	ppbv	97
17) tert-Butyl alcohol	4.37	59	40565m	1.149	ppbv	
18) 1,1-Dichloroethene	4.35	96	81126	1.125	ppbv	96
19) Isopropyl Alcohol	4.03	45	121859	1.062	ppbv #	96
20) Methylene Chloride	4.41	84	80719	1.162	ppbv	99
21) Allyl Chloride	4.48	41	119683	1.159	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	81926	1.146	ppbv	93
23) Vinyl Acetate	5.16	43	240793	1.136	ppbv #	96
24) 1,1-Dichloroethane	5.09	63	200835	1.116	ppbv	98
25) Ethyl Acetate	5.77	43	314532	1.116	ppbv	99
26) Hexane	5.78	57	158811	1.197	ppbv	96
27) Carbon Disulfide	4.62	76	191964	1.173	ppbv #	93
28) Methyl tert-Butyl Ether	5.12	73	235998	1.140	ppbv	99
29) Chloroform	5.84	83	251882	1.114	ppbv	96
30) Cyclohexane	7.24	84	110335	1.116	ppbv #	70
31) cis-1,2-Dichloroethene	5.64	61	136200	1.106	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	257113	1.121	ppbv	98
34) 2-Butanone	5.34	43	191008	1.035	ppbv	99
35) Carbon Tetrachloride	7.13	117	277156	1.016	ppbv	92
36) Benzene	7.00	78	283836	1.091	ppbv	96
37) 1,2-Dichloroethane	6.41	62	186519	1.027	ppbv	99
38) Trichloroethene	7.96	130	115720m	1.081	ppbv	
39) 1,2-Dichloropropane	7.73	63	105362	1.078	ppbv	90
40) 1,4-Dioxane	7.98	88	38659m	1.042	ppbv	
41) Tetrahydrofuran	6.17	42	99637	1.061	ppbv	98
42) Bromodichloromethane	7.91	83	254021	1.018	ppbv	99
43) Methyl Methacrylate	8.14	69	100469	1.029	ppbv	97

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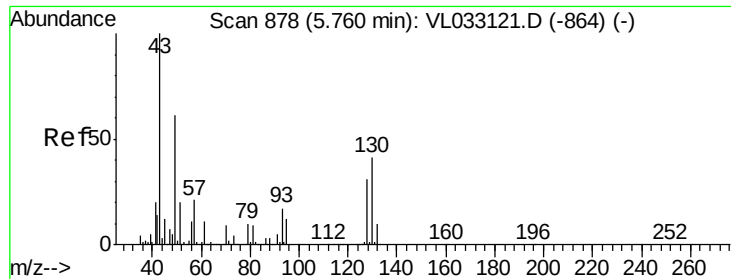
Manual Integrations
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Quant Time: Jan 28 22:43:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	476376	1.081	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	107348	0.883	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	136373	0.983	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	121968	1.068	ppbv	98
48) Dibromochloromethane	10.45	129	209421	1.038	ppbv	100
49) Bromoform	13.19	173	156660	0.889	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	247950	1.060	ppbv	100
51) 2-Hexanone	10.29	43	169465m	1.001	ppbv	
52) Tetrachloroethene	11.37	164	101515	1.104	ppbv	93
53) Toluene	9.95	91	293887	1.054	ppbv	97
54) 1,2-Dibromoethane	10.75	107	171093	1.040	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.28	131	161604	1.058	ppbv #	1
57) Chlorobenzene	12.30	112	263178	1.067	ppbv	97
58) Ethyl Benzene	12.86	91	352792	0.945	ppbv	97
59) m/p-Xylene	13.14	91	669429m	1.939	ppbv	
60) o-Xylene	13.85	91	356778	1.056	ppbv	98
61) Styrene	13.68	104	213568	0.990	ppbv	99
62) Isopropylbenzene	14.83	105	469951	0.977	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	268639	1.070	ppbv	100
64) n-propylbenzene	15.71	120	114241	0.935	ppbv	88
65) tert-Butylbenzene	16.91	119	399462	0.938	ppbv	94
66) Benzyl Chloride	17.16	91	206852	0.852	ppbv	97
67) sec-Butylbenzene	17.46	105	590191	0.968	ppbv	98
69) p-Isopropyltoluene	17.82	119	456076m	0.922	ppbv	
70) n-Butylbenzene	18.72	91	436540	0.877	ppbv	97
71) 2-Chlorotoluene	15.61	91	309842	0.908	ppbv	97
72) 4-Ethyltoluene	16.00	105	341679	0.920	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	335324	0.915	ppbv	91
74) 1,2,4-Trimethylbenzene	16.92	105	368948	0.909	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	222957m	0.933	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	191093	0.878	ppbv	98
77) 1,2-Dichlorobenzene	17.98	146	211377	0.982	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	167743	1.015	ppbv	99
79) Naphthalene	22.42	128	164375	0.481	ppbv #	94
80) Naphthalene, 2-methyl-	25.11	142	18405	0.177	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	90191m	0.546	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033122.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1204122

Ion Ratio Lower Upper

49 100

128 54.0 25.9 77.7

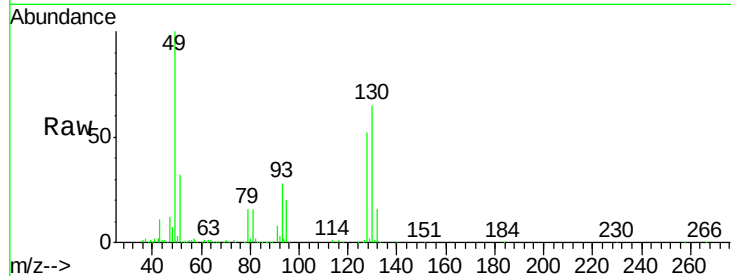
130 68.6 32.9 98.7

Manual Integrations

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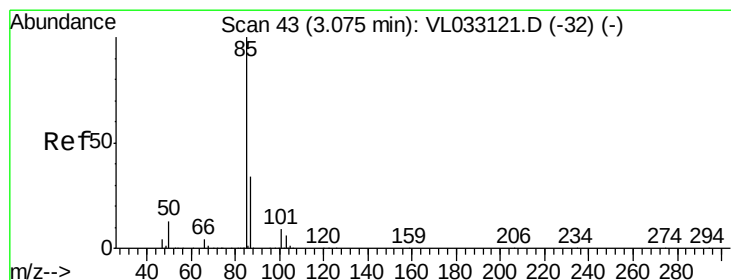
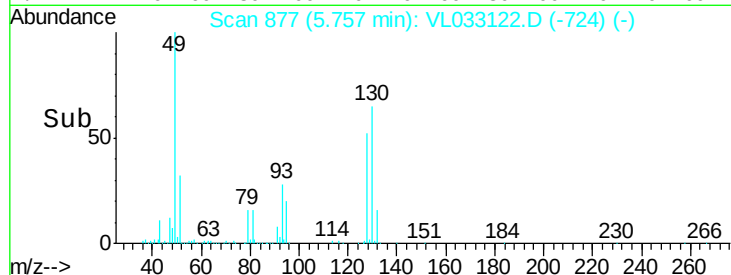
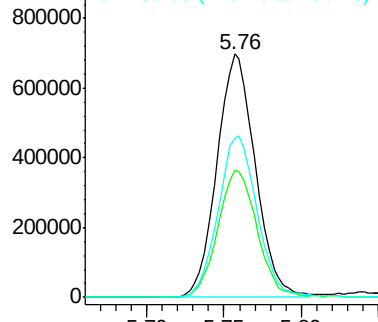
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.396 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033122.D

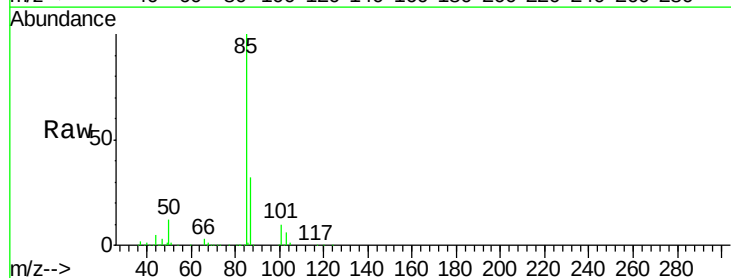
Acq: 28 Jan 2019 21:51

Tgt Ion: 85 Resp: 312781

Ion Ratio Lower Upper

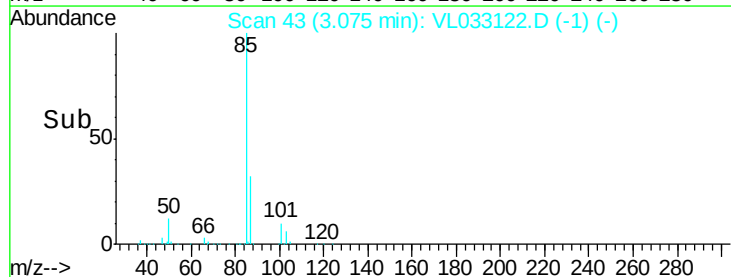
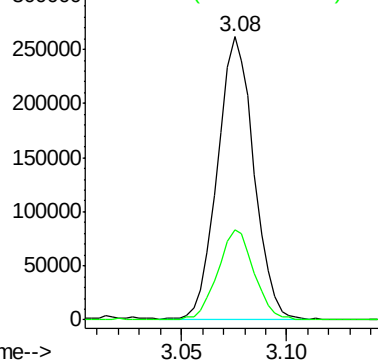
85 100

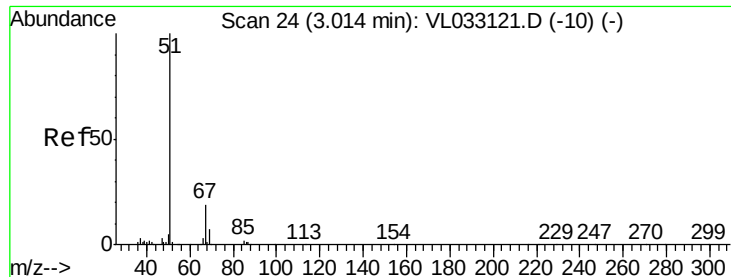
87 31.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.270 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 173098

Ion Ratio Lower Upper

51 100

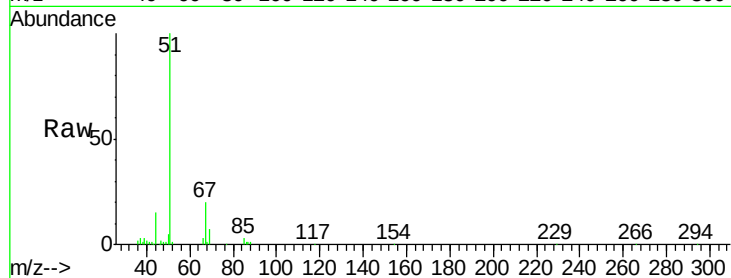
67 19.8 16.2 24.2

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.01

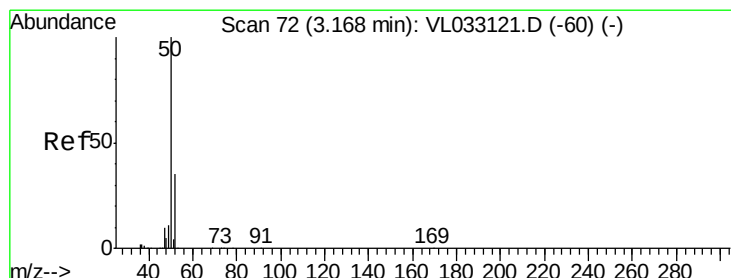
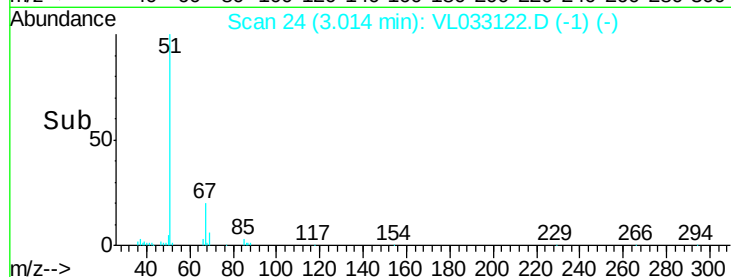
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 1.211 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033122.D

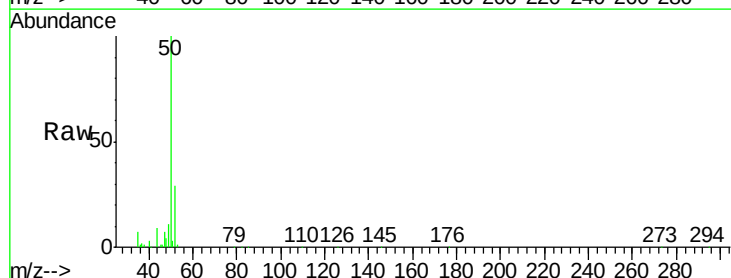
Acq: 28 Jan 2019 21:51

Tgt Ion: 50 Resp: 94538

Ion Ratio Lower Upper

50 100

52 29.7 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

80000

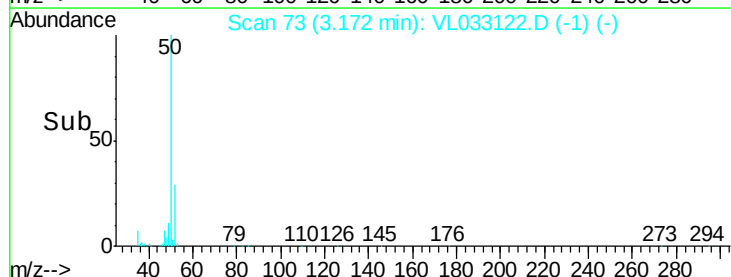
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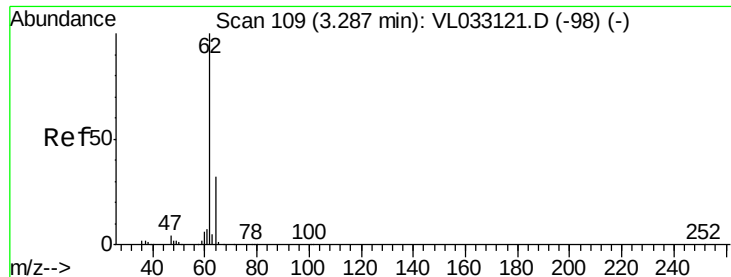
40000

20000

0

Time-->





#5

Vinyl Chloride

Concen: 1.231 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 97022

Ion Ratio Lower Upper

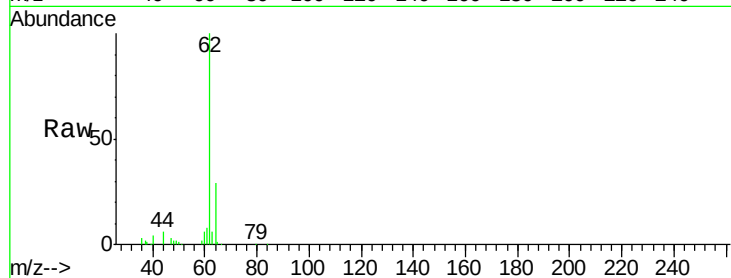
62 100

64 27.9 25.7 38.5

Manual Integrations
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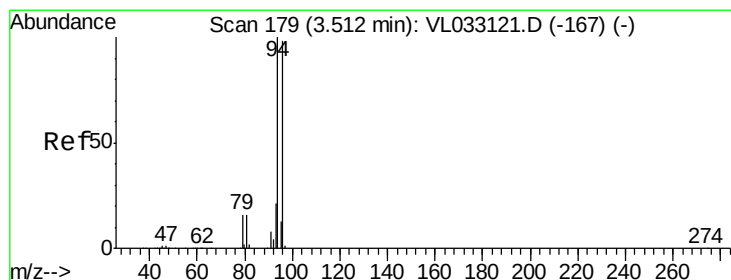
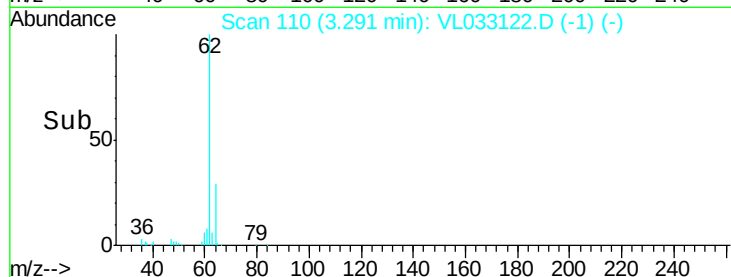
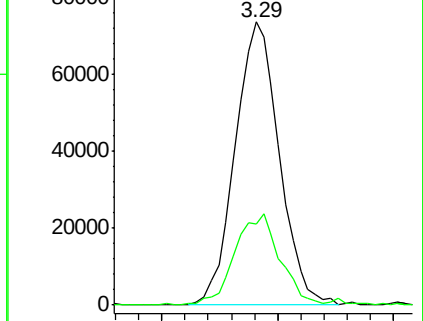
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.193 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033122.D

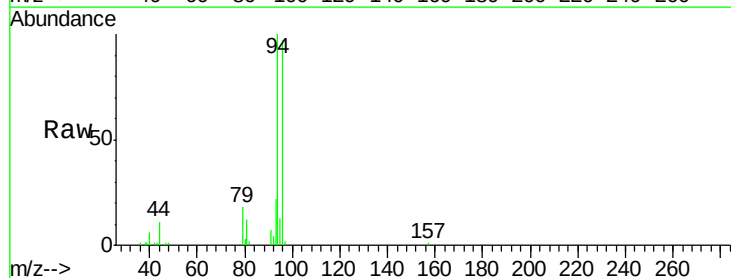
Acq: 28 Jan 2019 21:51

Tgt Ion: 94 Resp: 63924

Ion Ratio Lower Upper

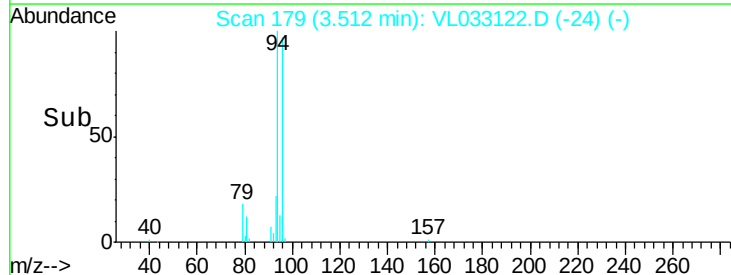
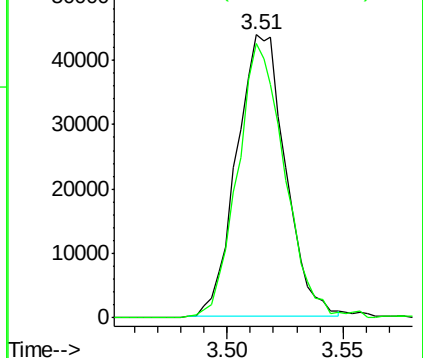
94 100

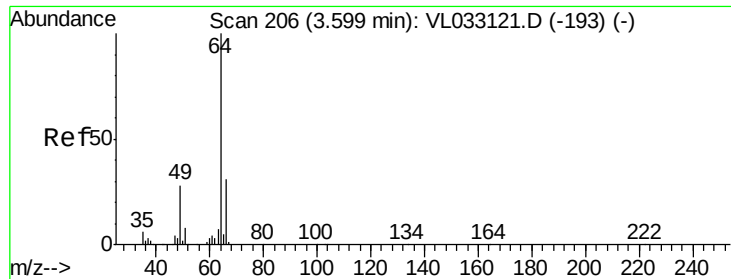
96 96.6 75.4 113.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.169 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 36057

Ion Ratio Lower Upper

64 100

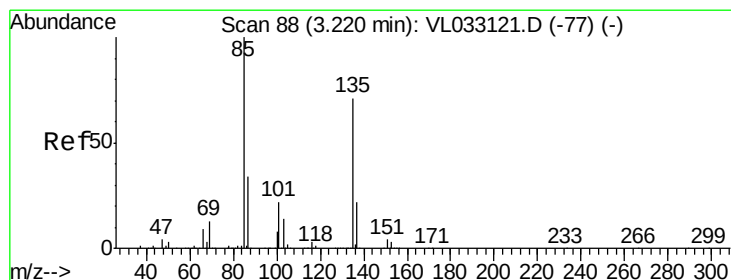
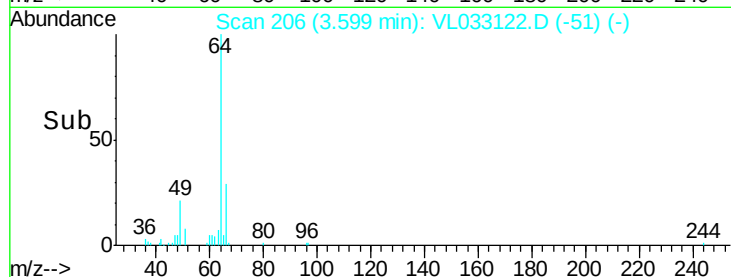
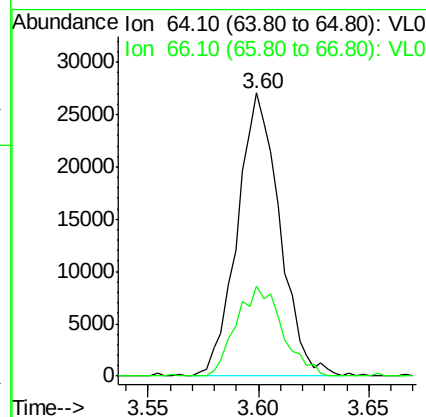
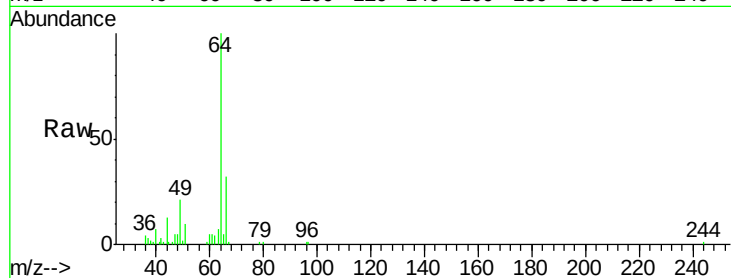
66 32.0 24.0 36.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.296 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033122.D

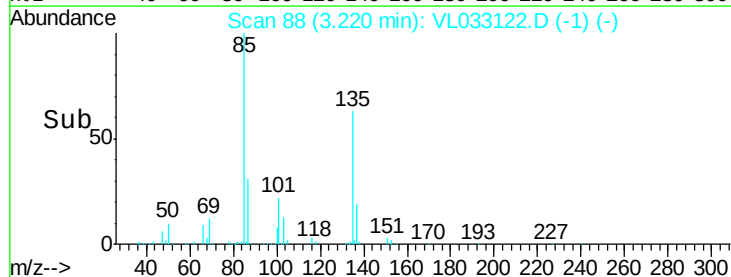
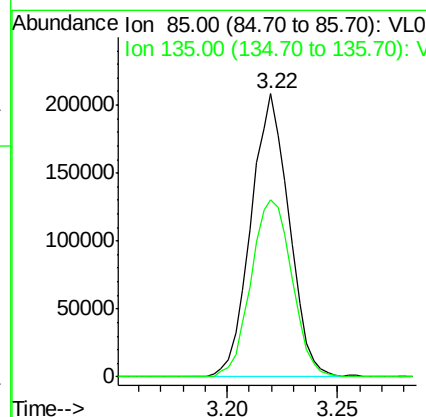
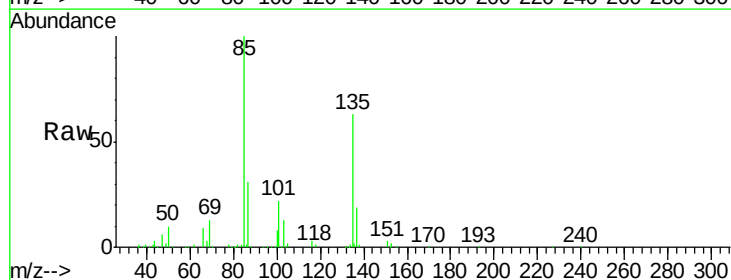
Acq: 28 Jan 2019 21:51

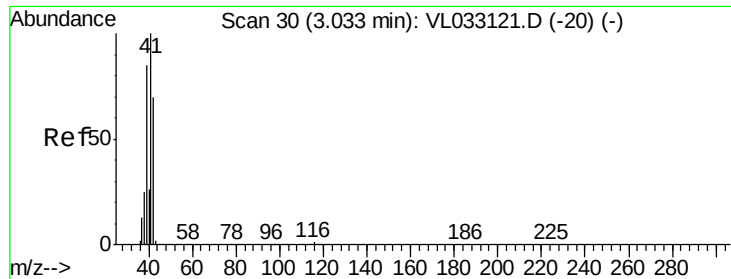
Tgt Ion: 85 Resp: 250180

Ion Ratio Lower Upper

85 100

135 67.0 54.8 82.2





#9

Propene

Concen: 1.304 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 66377

Ion Ratio Lower Upper

41 100

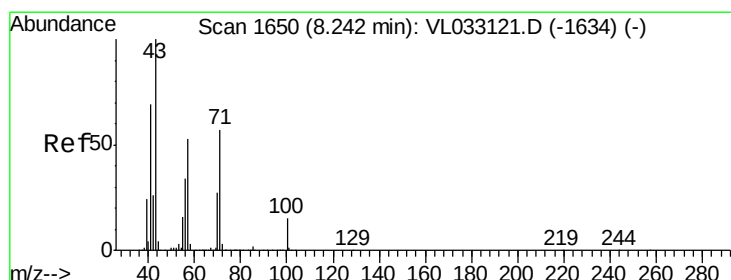
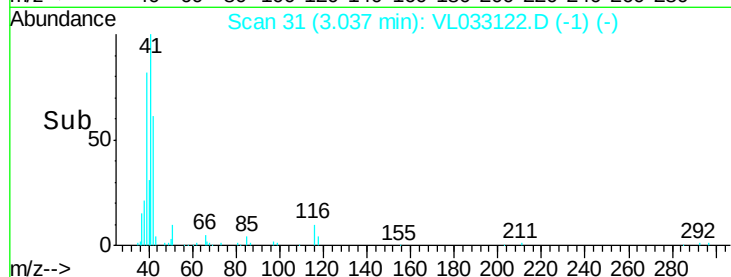
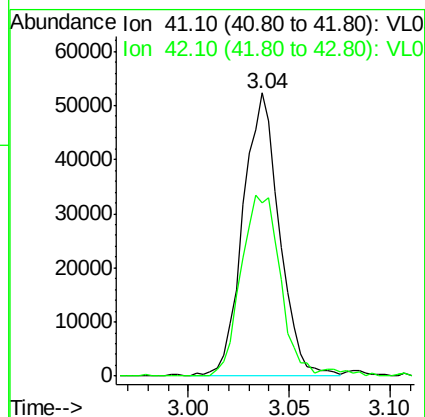
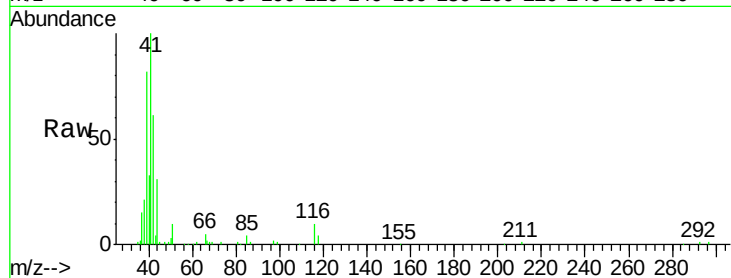
42 70.8 54.6 82.0

Manual Integrations

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#10

Heptane

Concen: 1.091 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033122.D

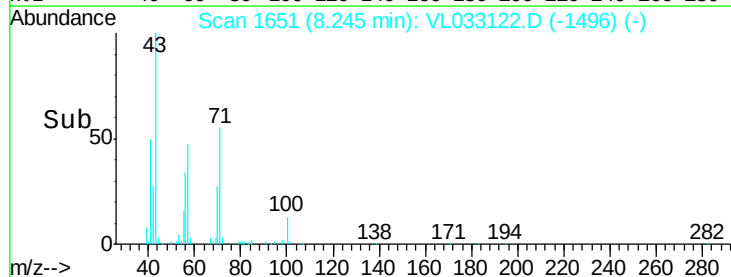
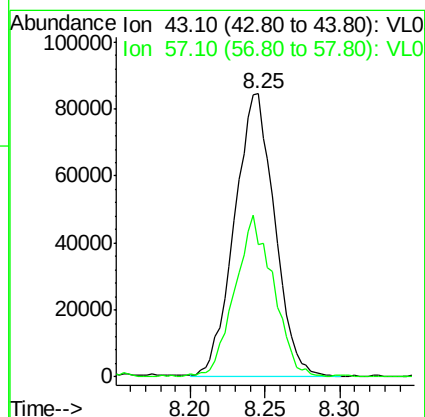
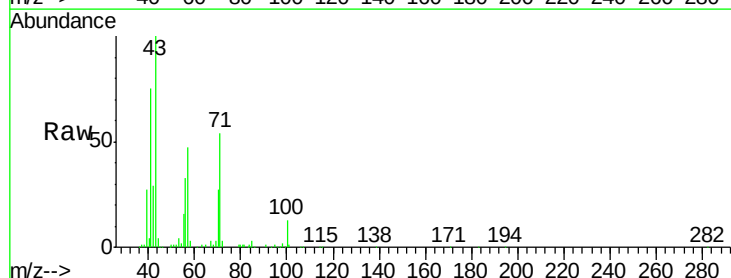
Acq: 28 Jan 2019 21:51

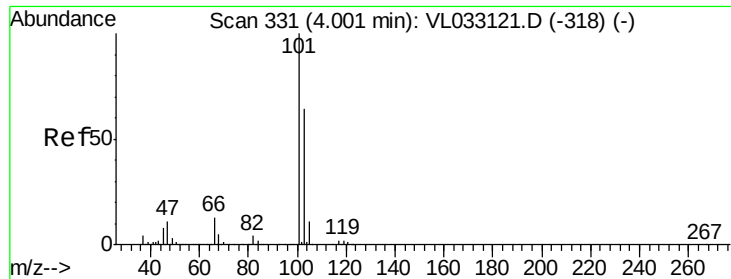
Tgt Ion: 43 Resp: 158232

Ion Ratio Lower Upper

43 100

57 55.2 42.2 63.2





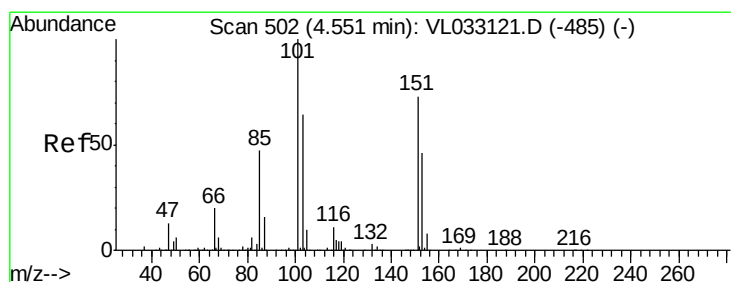
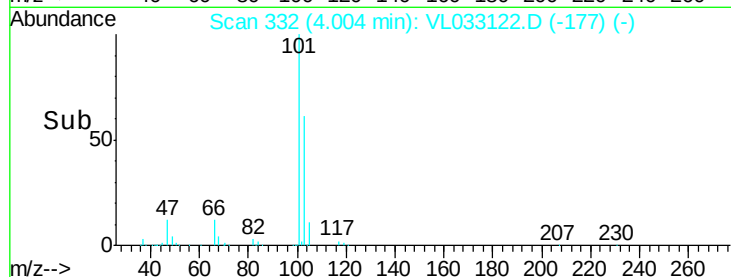
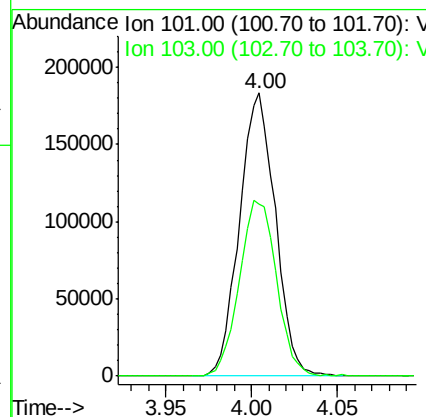
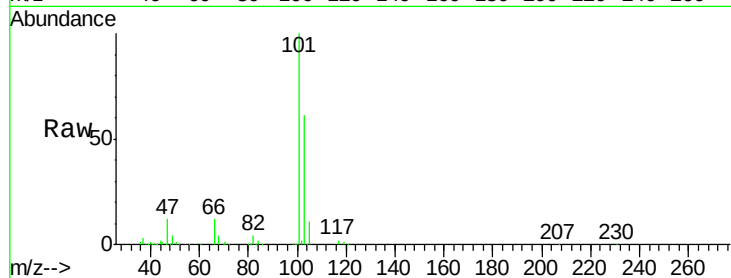
#11
 Trichlorofluoromethane
 Concen: 1.073 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.6	49.4	74.0

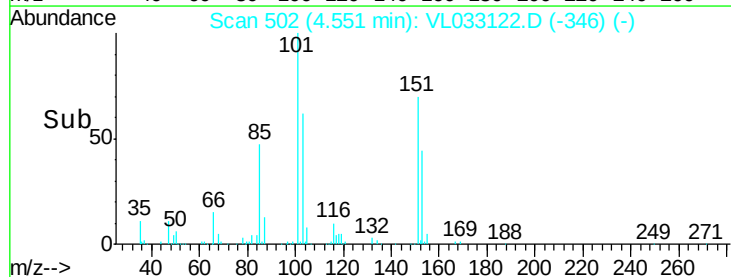
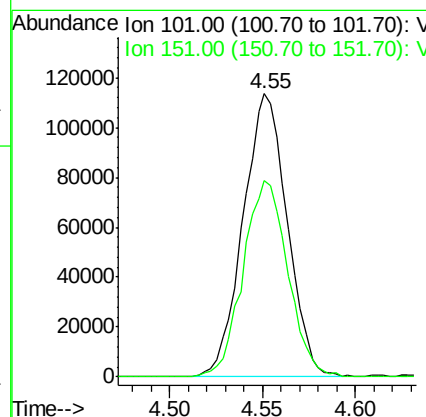
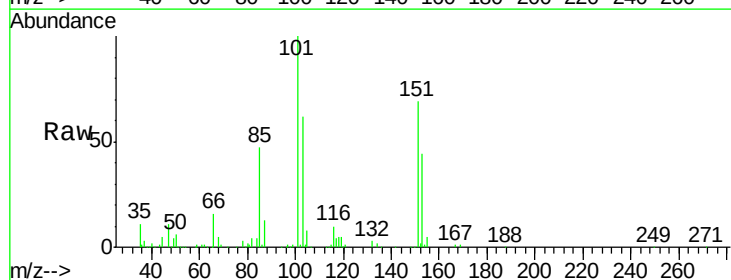
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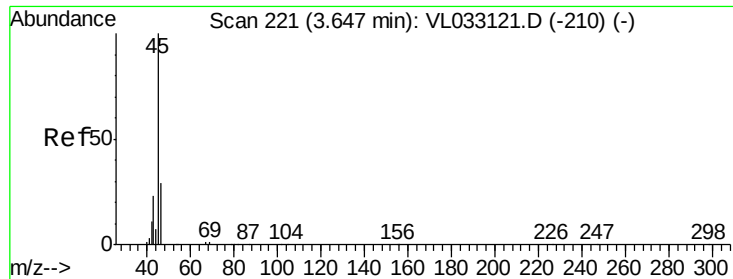
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.198 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
101	100		
151	70.3	57.9	86.9





#13

Ethanol

Concen: 1.354 ppbv m

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 27492

Ion Ratio Lower Upper

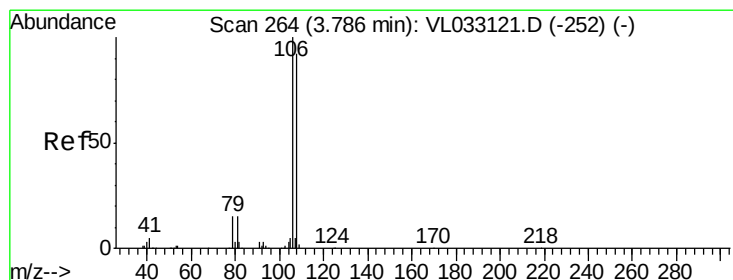
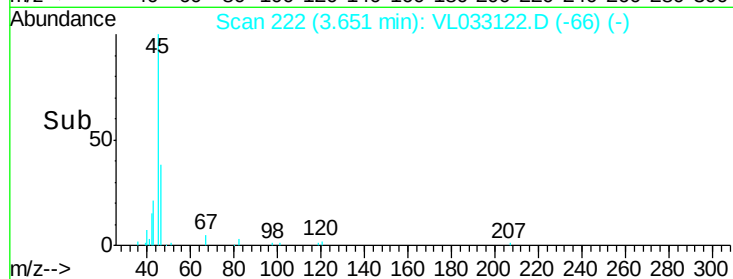
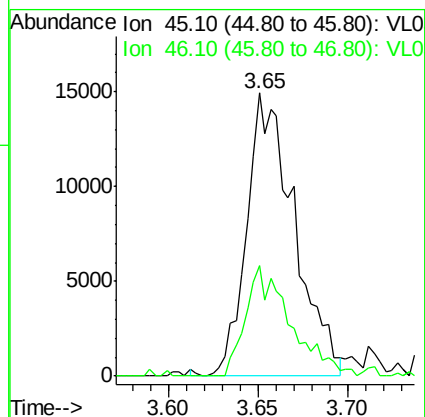
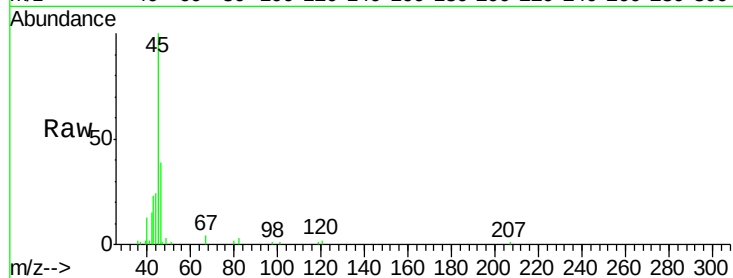
45 100

46 37.7 15.0 60.2

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#14

Bromoethene

Concen: 1.114 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

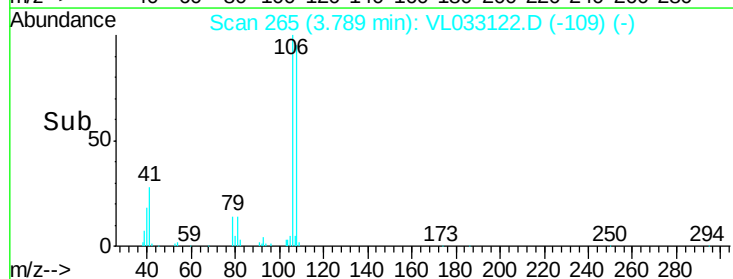
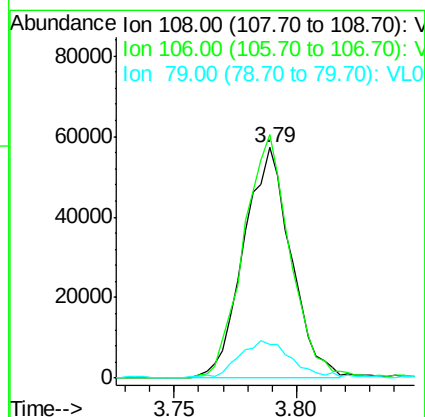
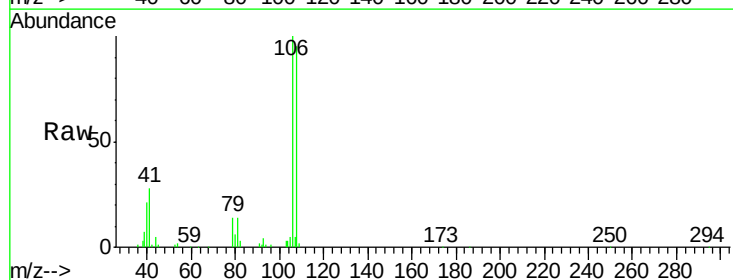
Tgt Ion: 108 Resp: 77038

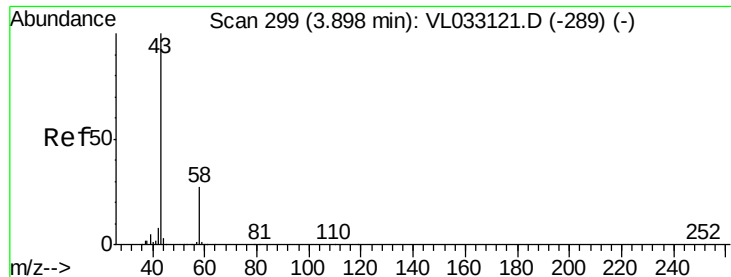
Ion Ratio Lower Upper

108 100

106 105.3 85.5 128.3

79 19.3 13.8 20.6





#15

Acetone

Concen: 1.070 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 178385

Ion Ratio Lower Upper

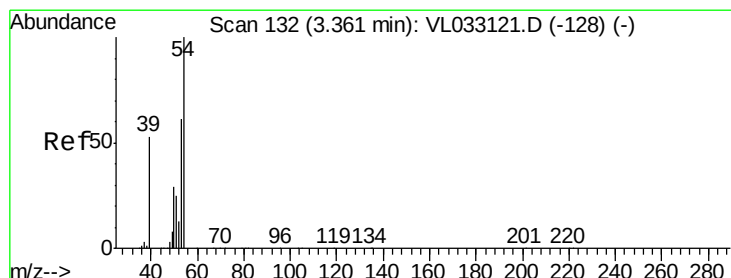
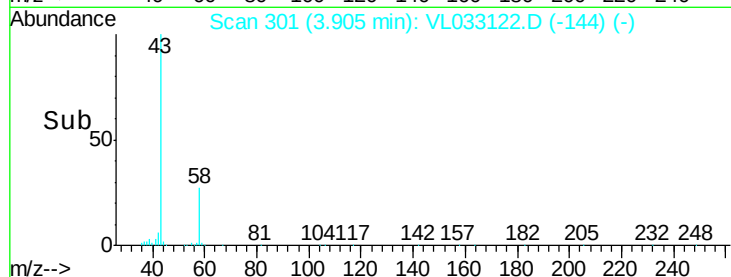
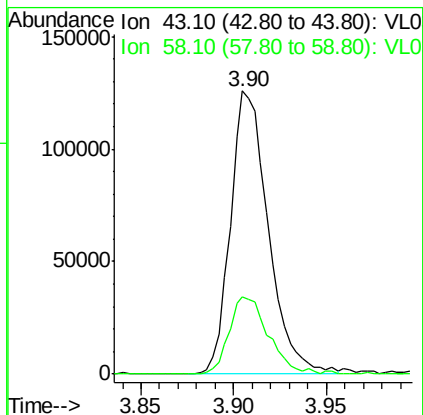
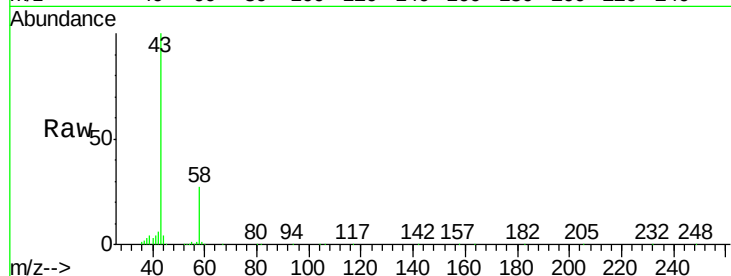
43 100

58 28.8 21.1 31.7

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#16

1,3-Butadiene

Concen: 1.092 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033122.D

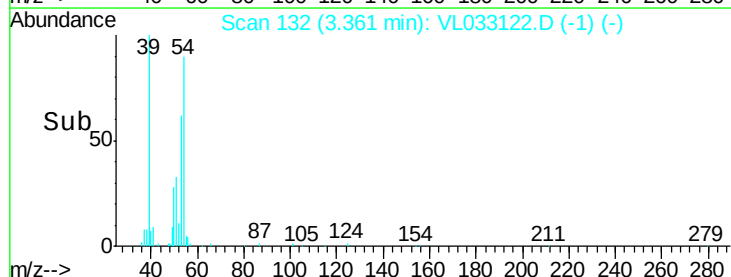
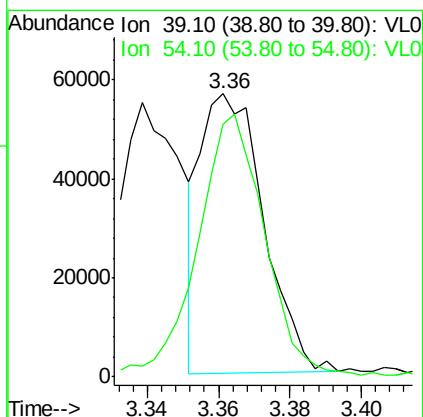
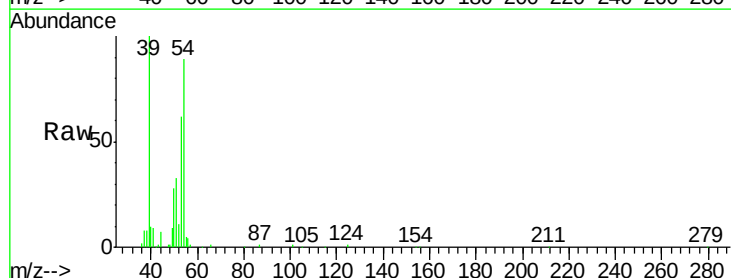
Acq: 28 Jan 2019 21:51

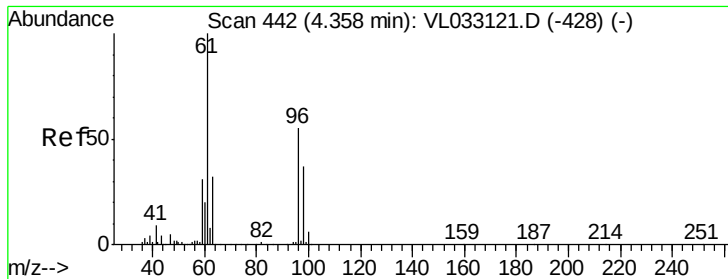
Tgt Ion: 39 Resp: 68607

Ion Ratio Lower Upper

39 100

54 102.7 80.0 120.0





#17

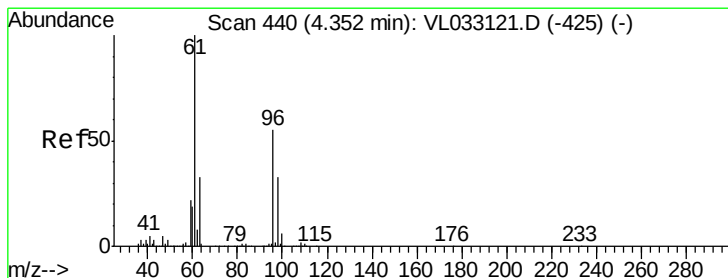
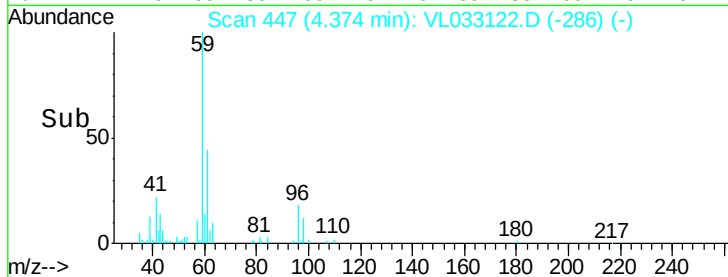
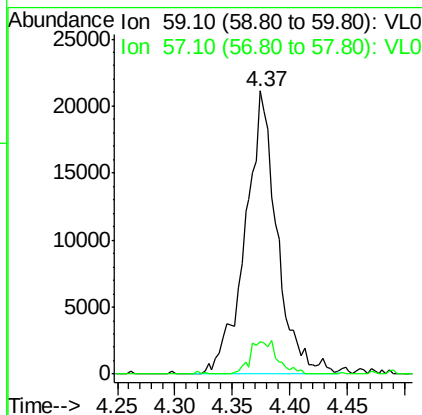
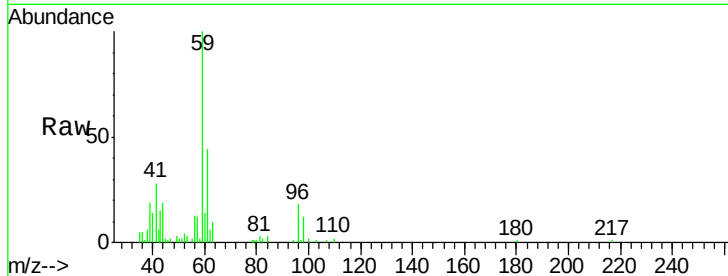
tert-Butyl alcohol
Concen: 1.149 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	59	Resp	40565
Ion Ratio	Lower	Upper	
59	100		
57	0.0	7.4	11.2#

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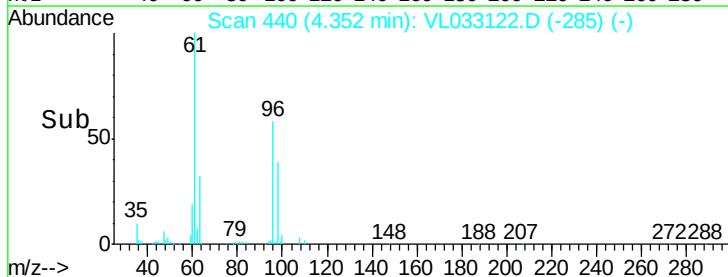
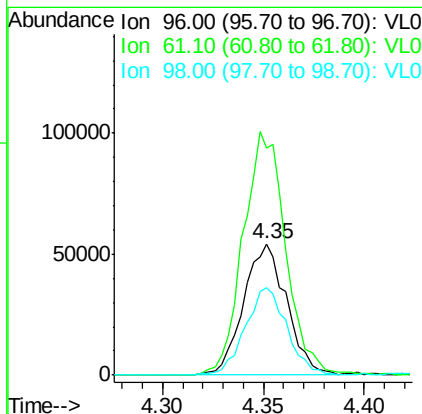
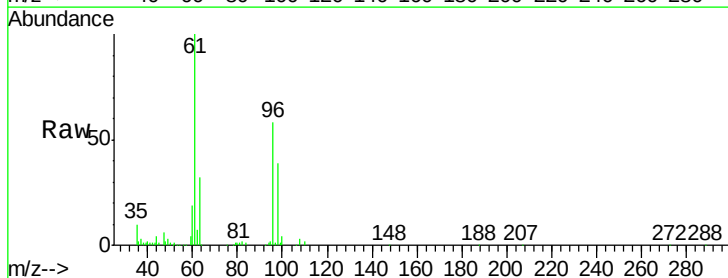
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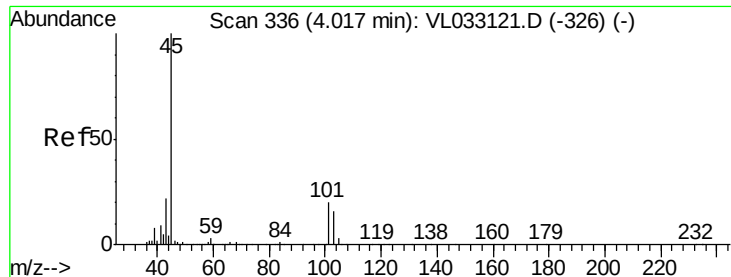


#18

1,1-Dichloroethene
Concen: 1.125 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	96	Resp	81126
Ion Ratio	Lower	Upper	
96	100		
61	172.4	142.6	213.8
98	66.5	51.4	77.0





#19

Isopropyl Alcohol

Concen: 1.062 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 121859

Ion Ratio Lower Upper

45 100

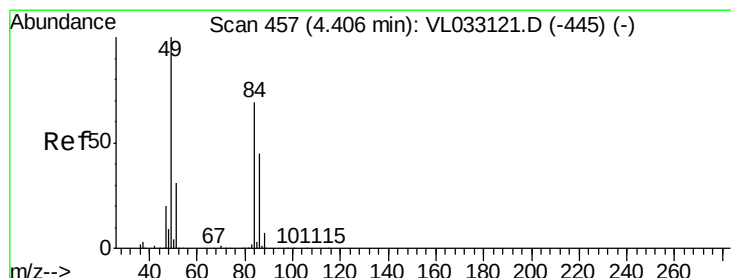
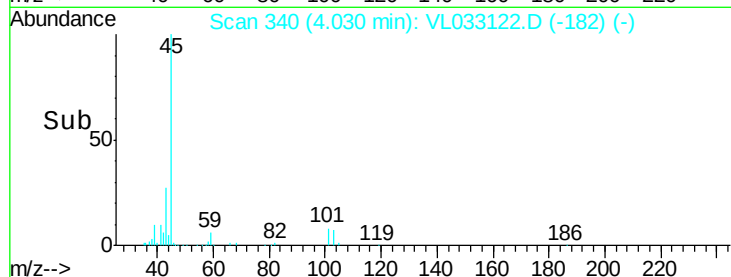
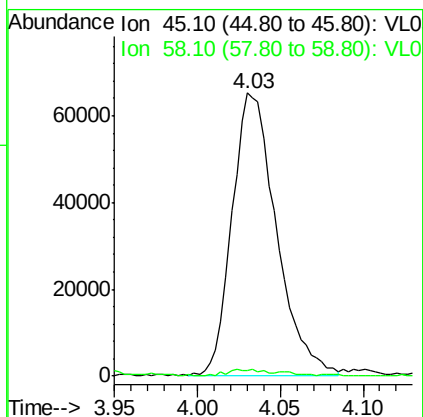
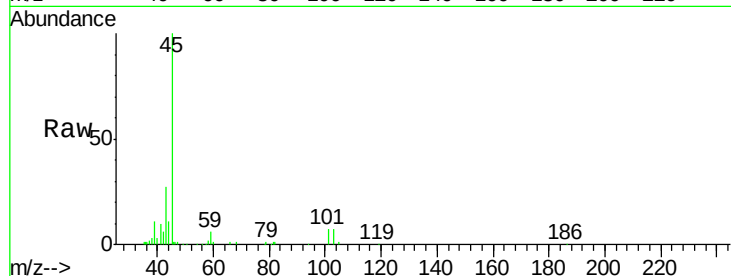
58 3.2 1.4 2.2#

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#20

Methylene Chloride

Concen: 1.162 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion: 84 Resp: 80719

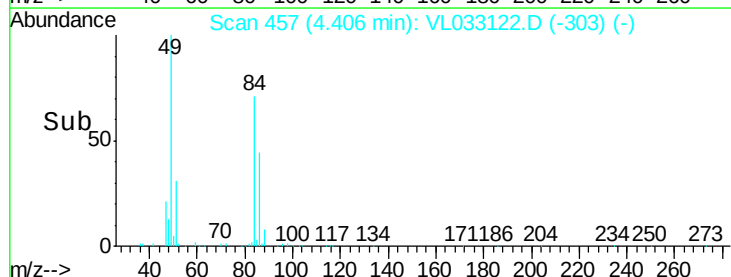
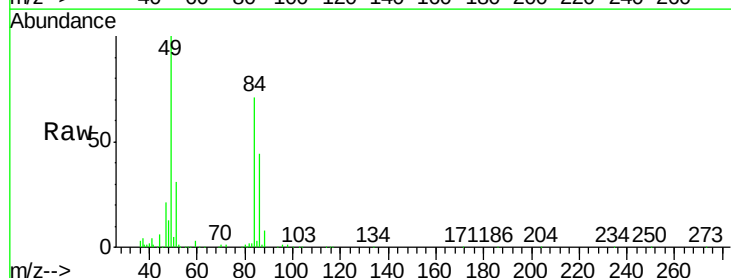
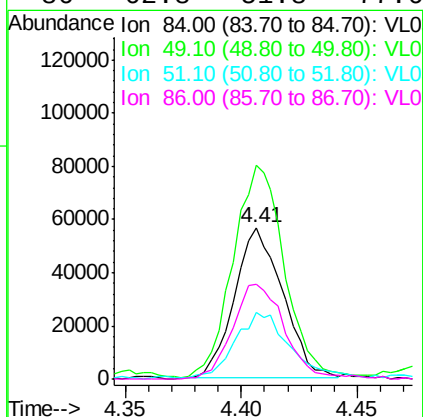
Ion Ratio Lower Upper

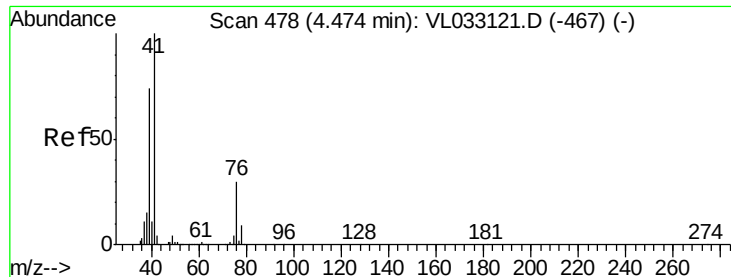
84 100

49 141.5 113.8 170.6

51 43.4 34.5 51.7

86 62.8 51.8 77.6





#21

Allvl Chloride

Concen: 1.159 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

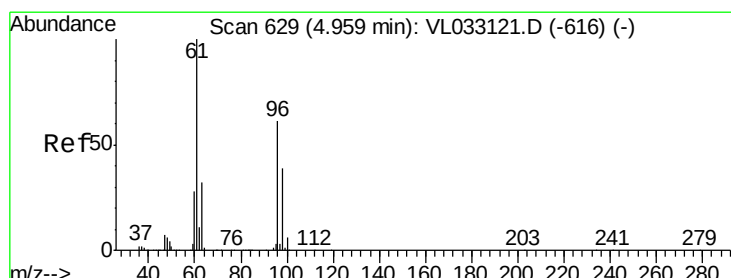
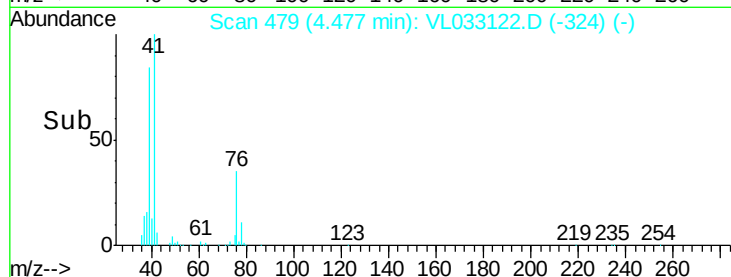
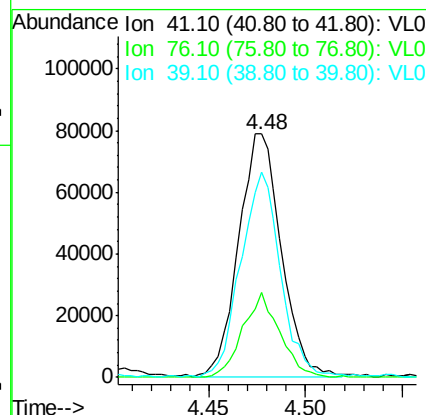
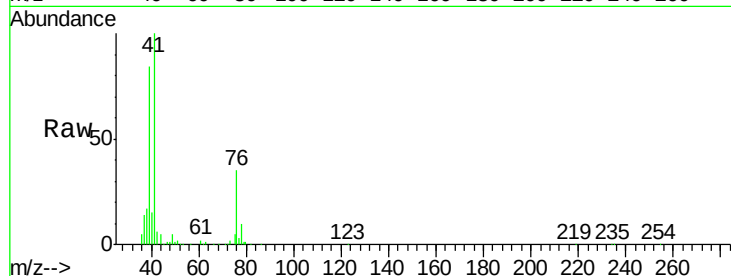
ClientSampled :

VSTDIC001

Tot Ion:	41	Resp:	119683
Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.6	37.0
39	79.5	63.3	94.9

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 1.146 ppbv

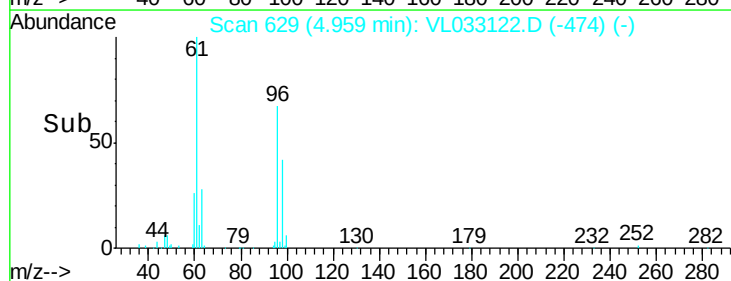
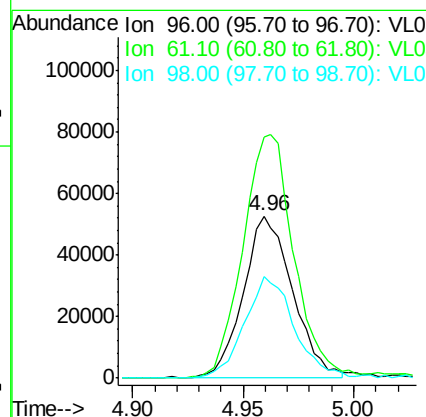
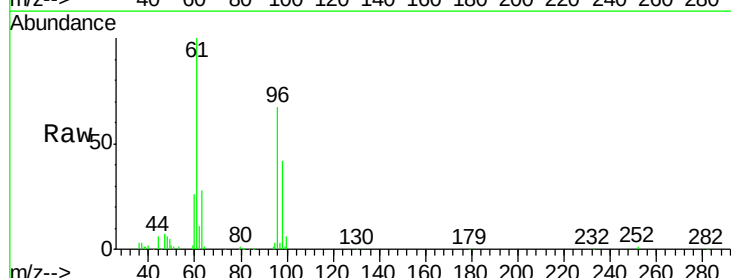
RT: 4.96 min Scan# 629

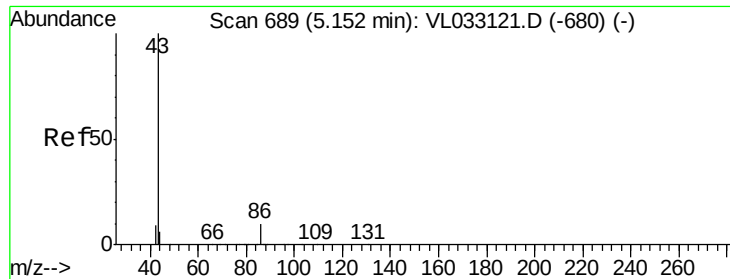
Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion:	96	Resp:	81926
Ion	Ratio	Lower	Upper
96	100		
61	147.2	127.6	191.4
98	62.3	48.6	73.0





#23

Vinyl Acetate

Concen: 1.136 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

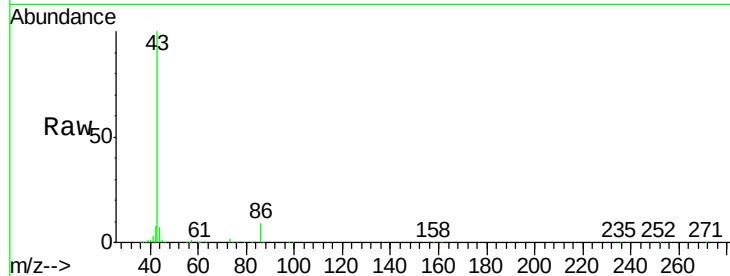
ClientSampleId :

VSTDIC001

Tot Ion	43	Resp	240793
Ion Ratio	Lower	Upper	
43	100		
86	8.7	6.7	10.1
42	7.7	8.1	12.1#
44	6.1	4.3	6.5

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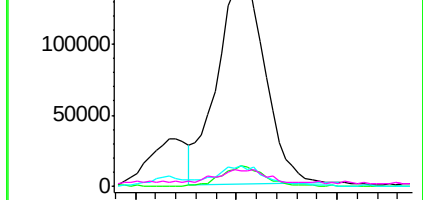


Abundance Ion 43.10 (42.80 to 43.80): VL0

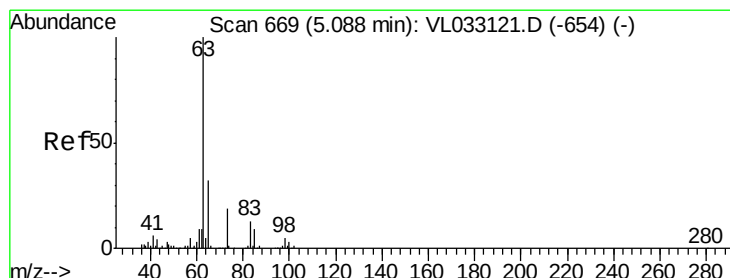
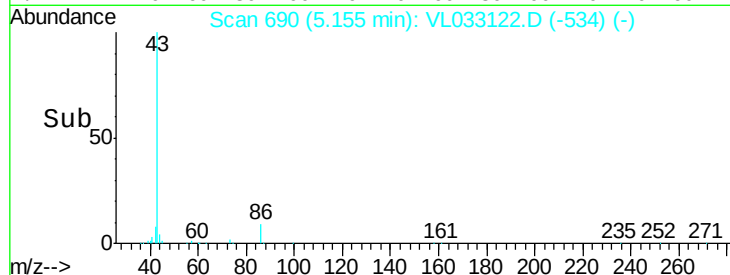
Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



Time-->



#24

1,1-Dichloroethane

Concen: 1.116 ppbv

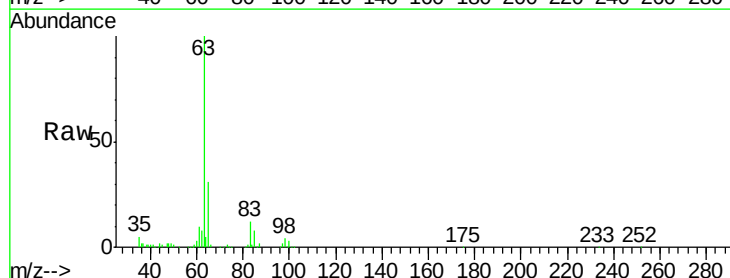
RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

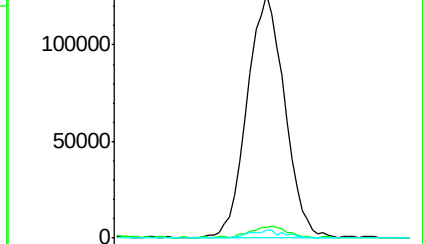
Tgt Ion	63	Resp	200835
Ion Ratio	Lower	Upper	
63	100		
98	4.3	2.5	7.4
100	3.2	1.4	4.2



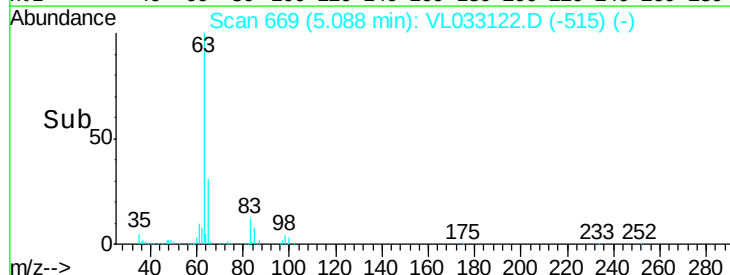
Abundance Ion 63.10 (62.80 to 63.80): VL0

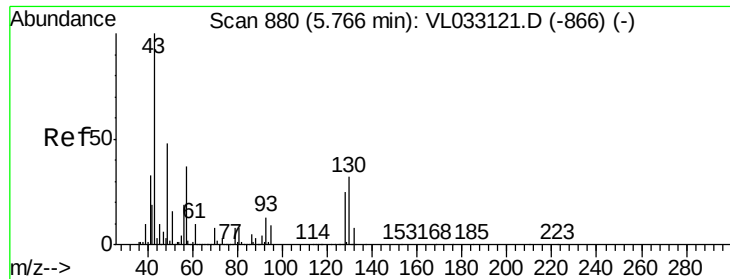
Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



Time-->





#25

Ethyl Acetate

Concen: 1.116 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

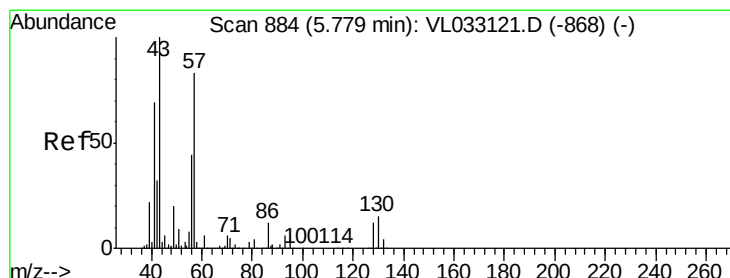
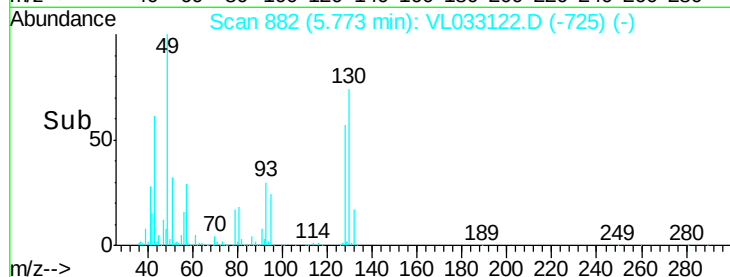
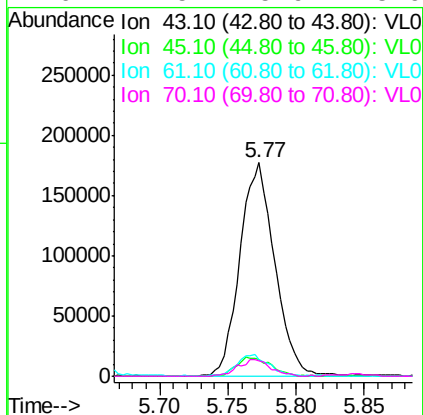
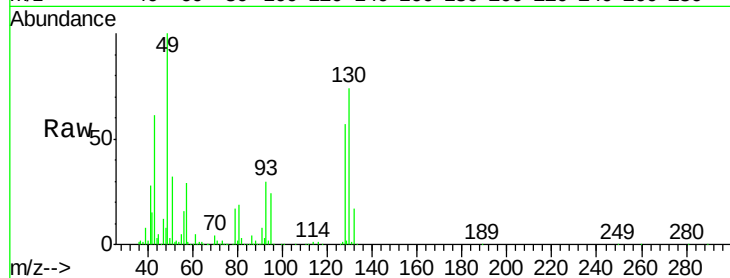
ClientSampled :

VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.1	8.0	12.0		
61	9.9	7.6	11.4		
70	7.5	5.9	8.9		

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#26

Hexane

Concen: 1.197 ppbv

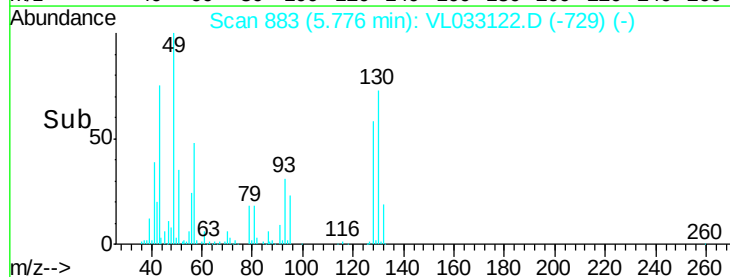
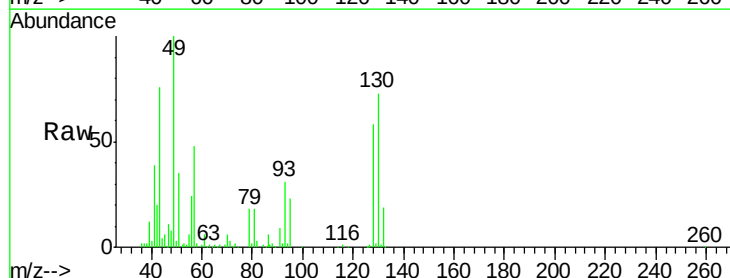
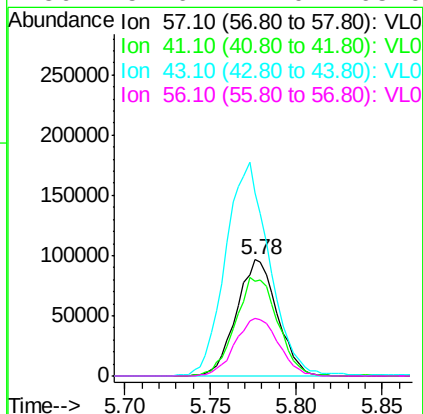
RT: 5.78 min Scan# 883

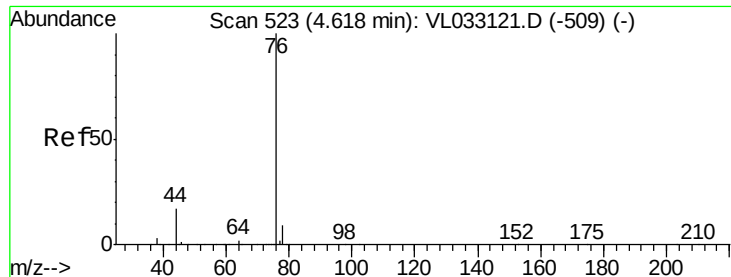
Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	87.8	69.9	104.9		
43	199.9	169.0	253.4		
56	52.6	42.0	63.0		





#27

Carbon Disulfide

Concen: 1.173 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

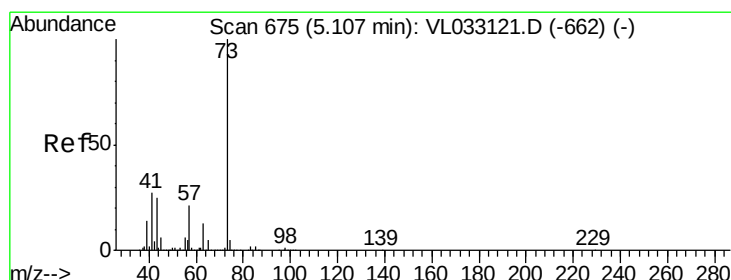
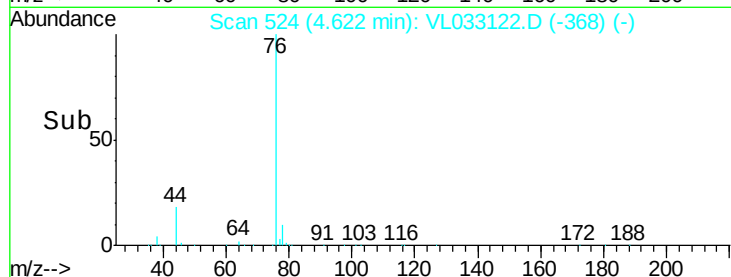
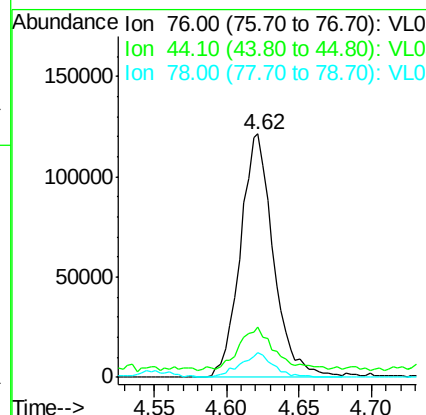
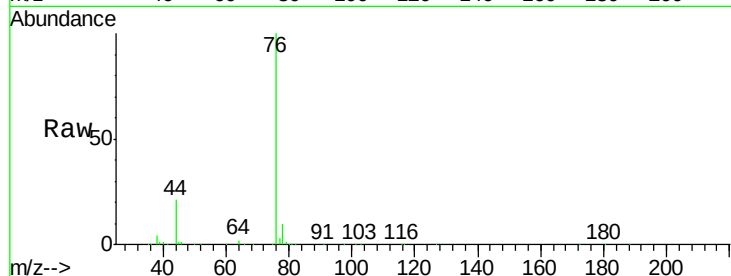
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
44	23.2	15.0	22.4#
78	10.1	7.6	11.4

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#28

Methyl tert-Butyl Ether

Concen: 1.140 ppbv

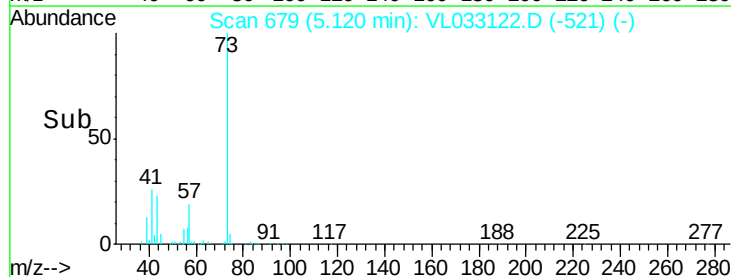
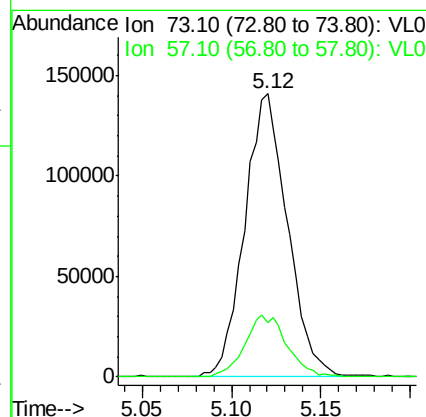
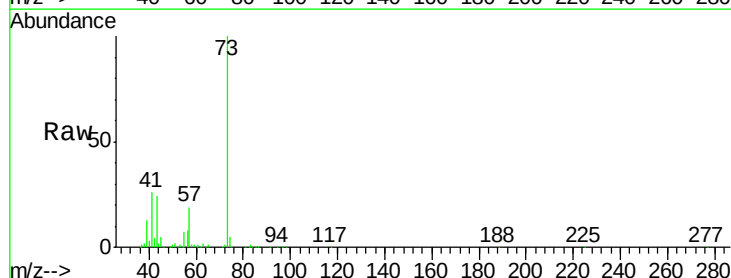
RT: 5.12 min Scan# 679

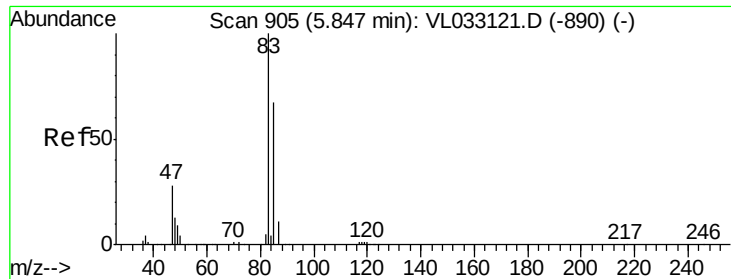
Delta R.T. 0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.6	26.4





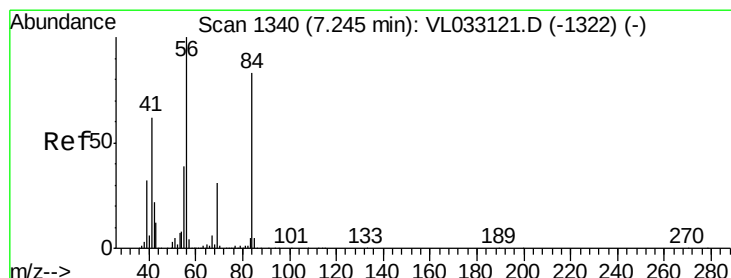
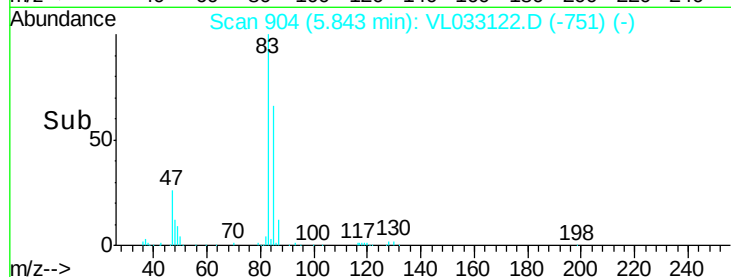
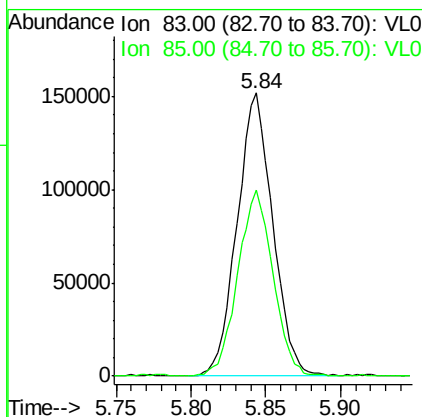
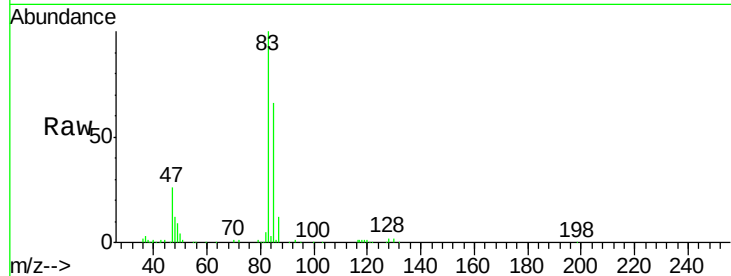
#29
Chloroform
Concen: 1.114 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	251882
Ion Ratio	100	Lower	Upper
83	100		
85	65.8	50.4	75.6

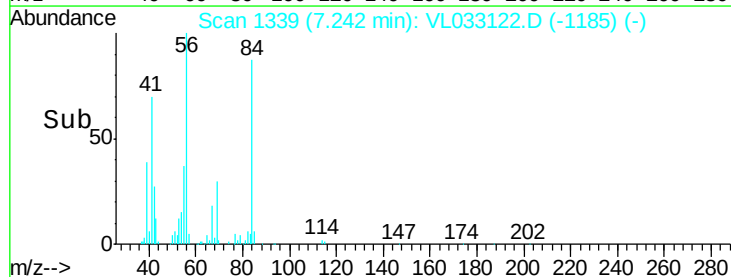
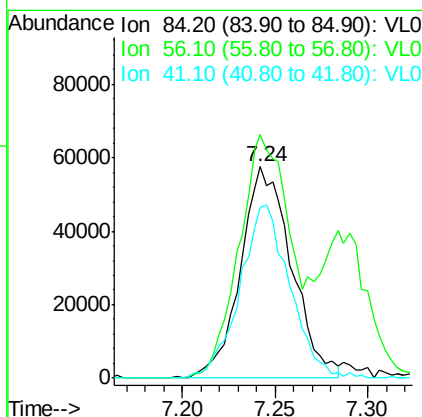
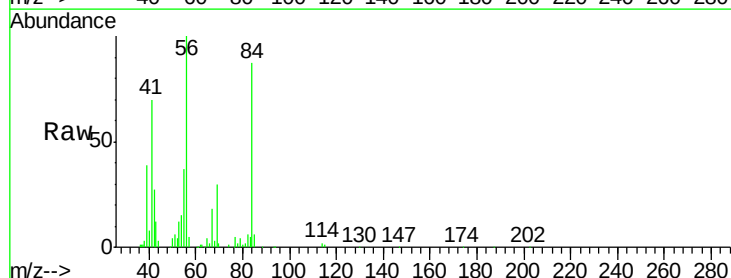
Manual Integrations
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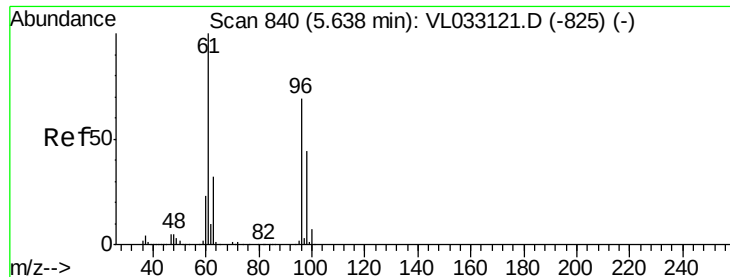
apatel
1/29/2019 2:36:36 PM



#30
Cyclohexane
Concen: 1.116 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	84	Resp	110335
Ion Ratio	100	Lower	Upper
84	100		
56	182.4	102.4	153.6#
41	80.9	62.7	94.1





#31

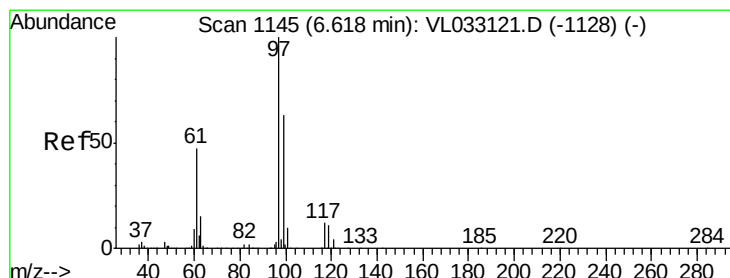
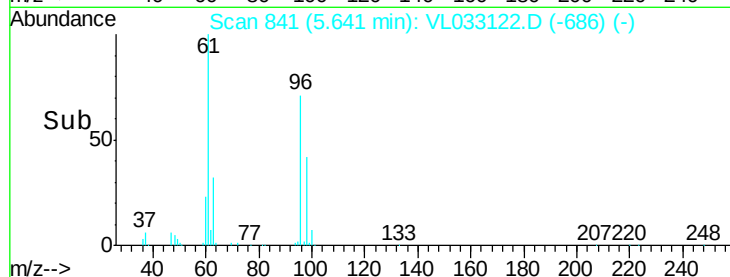
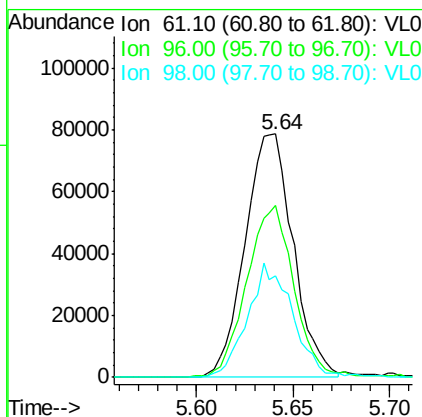
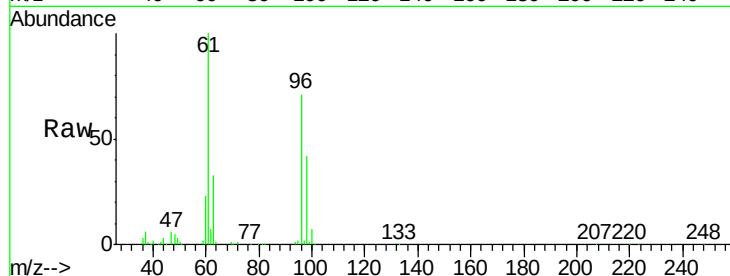
cis-1,2-Dichloroethene
Concen: 1.106 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tot Ion	61	Resp	136200
Ion	Ratio	Lower	Upper
61	100		
96	70.8	57.6	86.4
98	41.5	37.0	55.4

Manual Integrations
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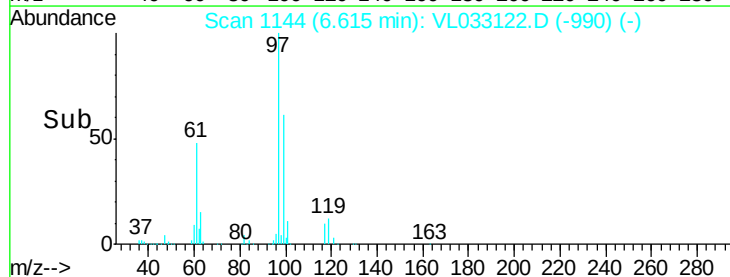
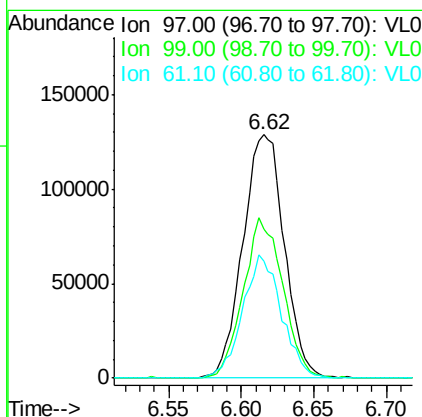
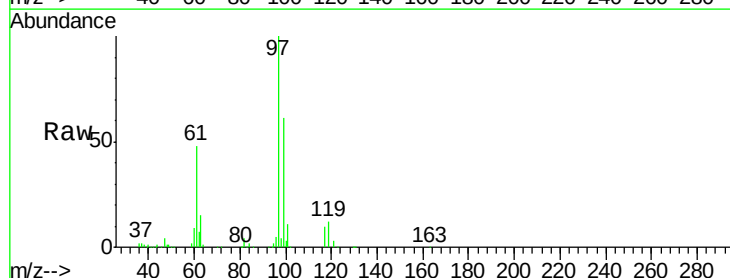
apatel
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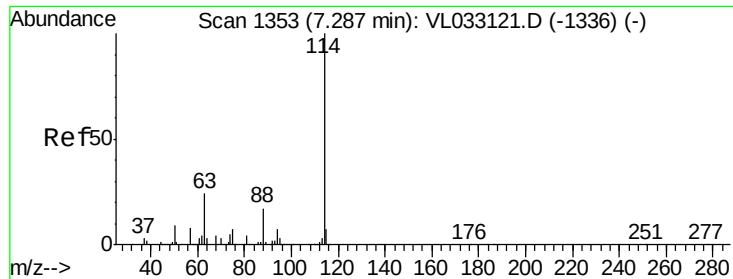


#32

1,1,1-Trichloroethane
Concen: 1.121 ppbv
RT: 6.62 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	97	Resp	257113
Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.7	77.5
61	47.4	38.6	57.8





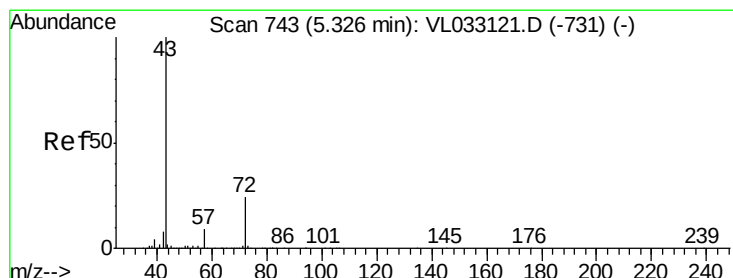
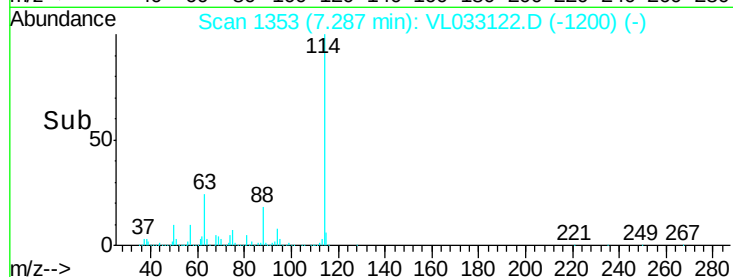
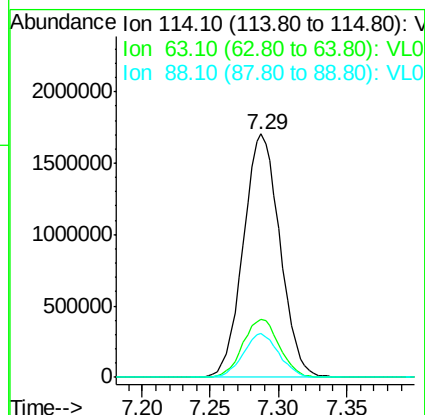
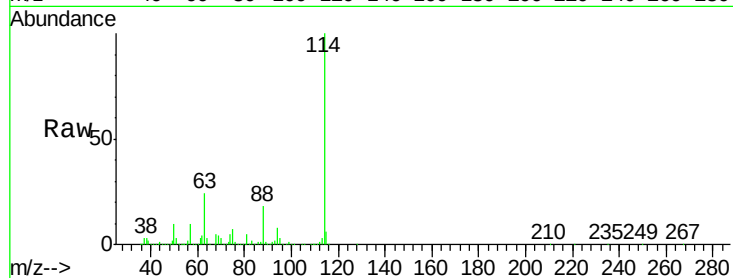
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.8	29.8
88	17.5	14.2	21.2

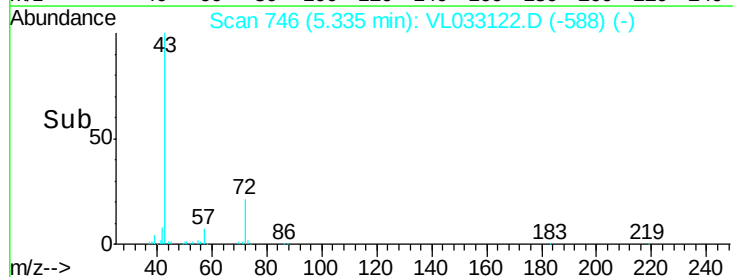
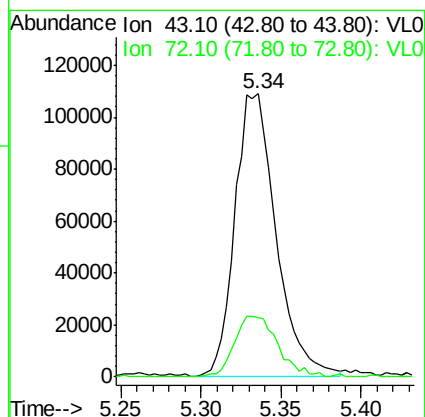
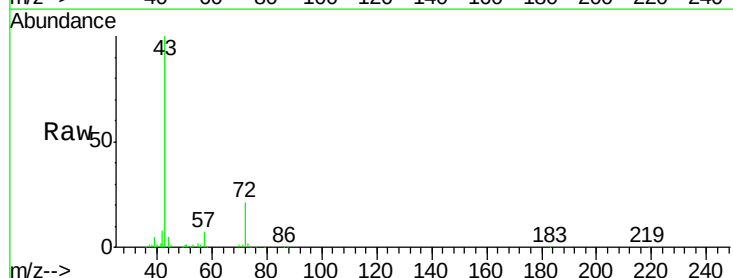
Manual Integrations
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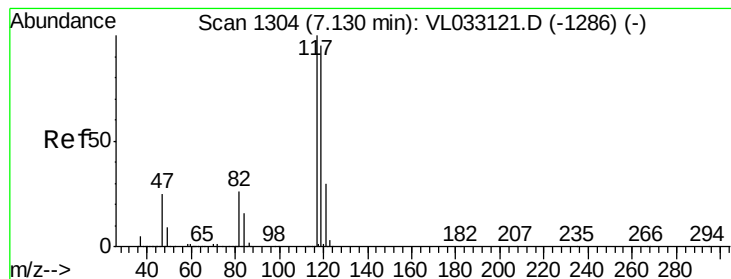
apatel
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#34
 2-Butanone
 Concen: 1.035 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.7	28.1





#35

Carbon Tetrachloride

Concen: 1.016 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

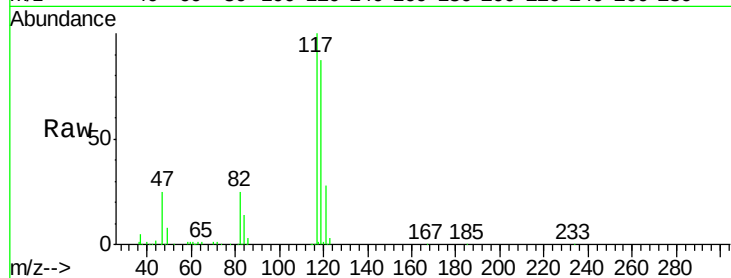
ClientSampleId :

VSTDIC001

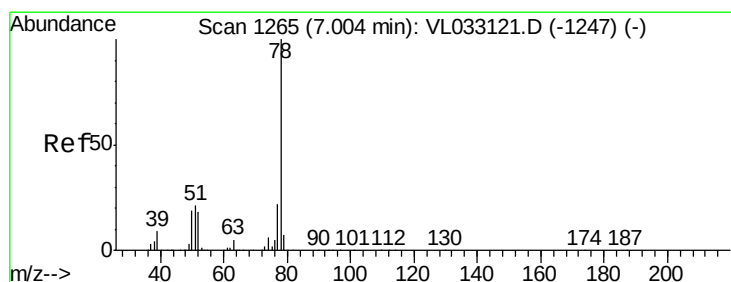
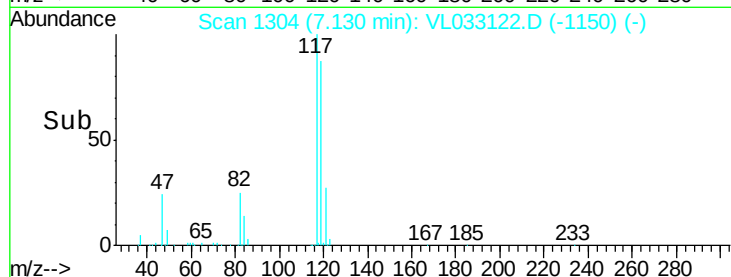
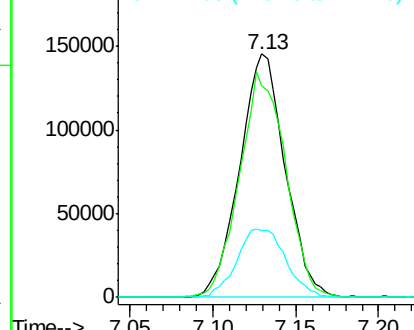
Tot Ion:	117	Resp:	277156
Ion Ratio	Lower	Upper	
117	100		
119	86.6	75.8	113.6
121	27.6	24.6	36.8

Manual Integrations
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.091 ppbv

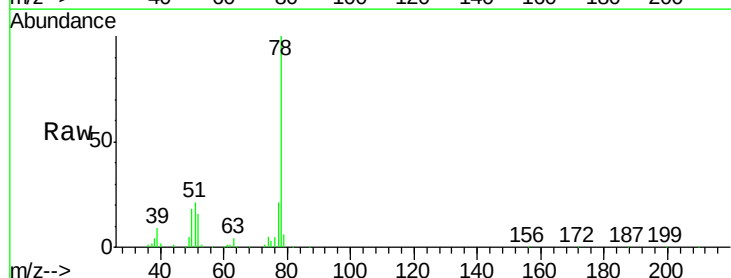
RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

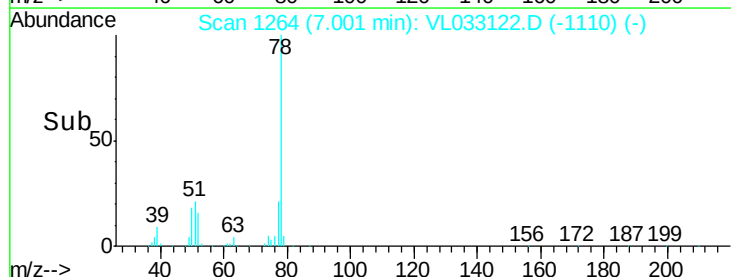
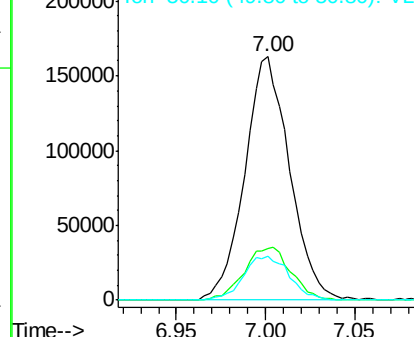
Lab File: VL033122.D

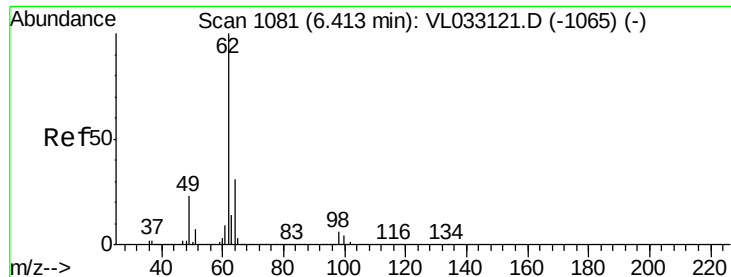
Acq: 28 Jan 2019 21:51

Tgt Ion:	78	Resp:	283836
Ion Ratio	Lower	Upper	
78	100		
77	21.0	18.5	27.7
50	18.0	15.4	23.2



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





#37

1,2-Dichloroethane

Concen: 1.027 ppbv

RT: 6.41 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 186519

Ion Ratio Lower Upper

62 100

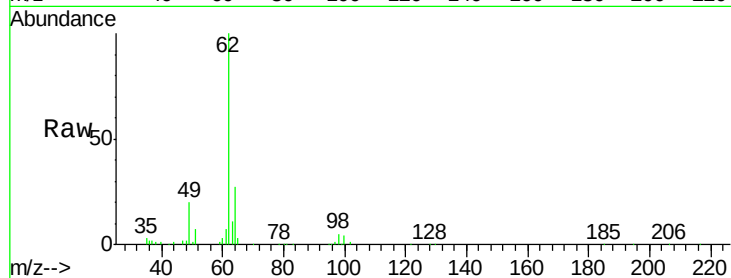
98 6.1 4.6 7.0

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.41

120000

100000

80000

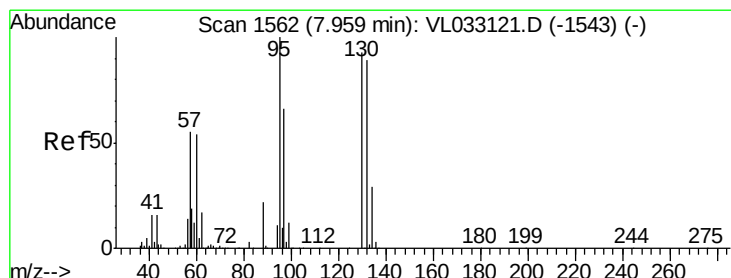
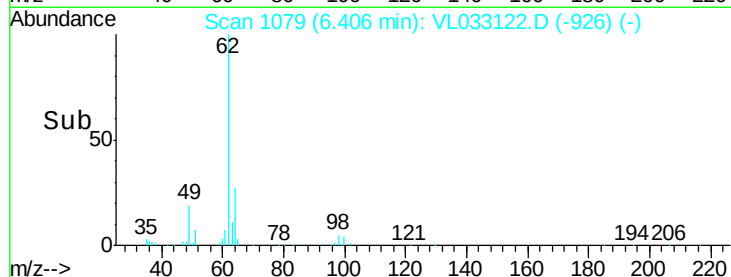
60000

40000

20000

0

Time-->



#38

Trichloroethene

Concen: 1.081 ppbv m

RT: 7.96 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion:130 Resp: 115720

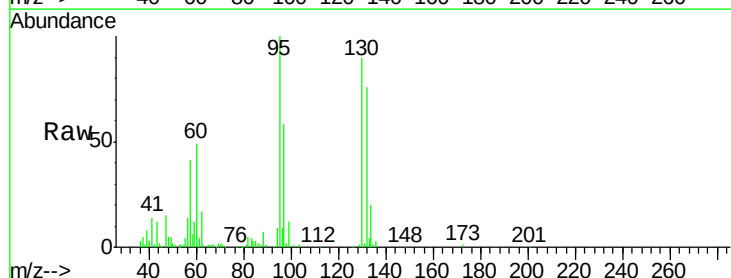
Ion Ratio Lower Upper

130 100

95 110.6 94.0 141.0

132 83.8 79.7 119.5

97 63.9 58.4 87.6



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

100000

80000

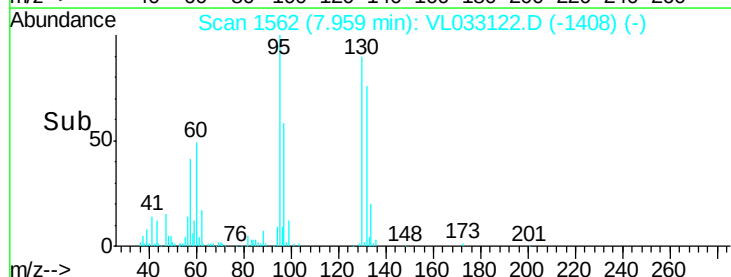
60000

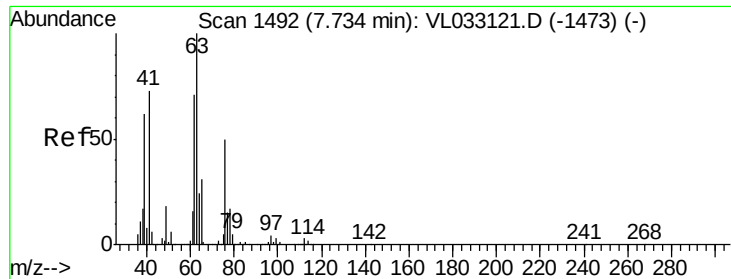
40000

20000

0

Time-->





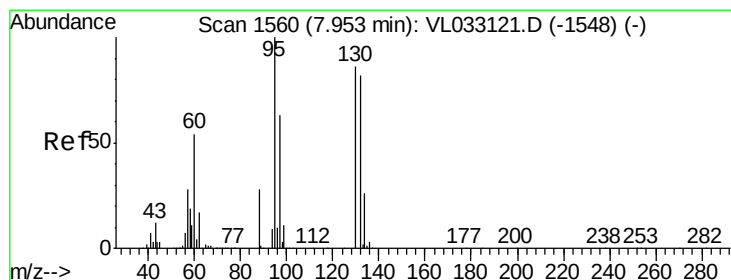
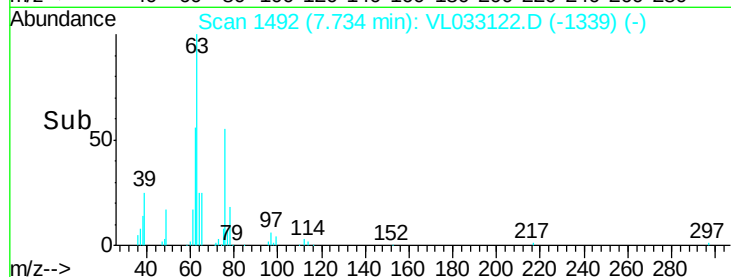
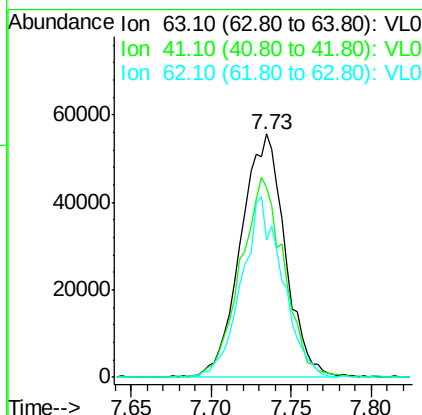
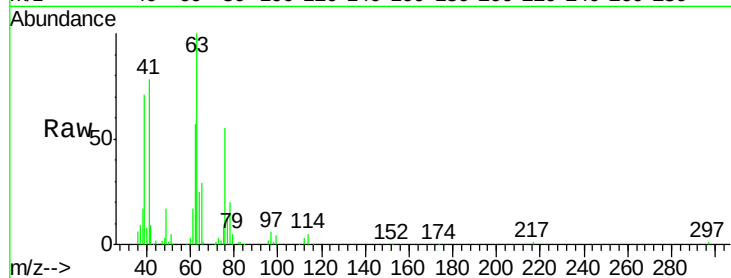
#39
 1,2-Dichloropropane
 Concen: 1.078 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.3	57.8	86.8
62	56.6	54.6	82.0

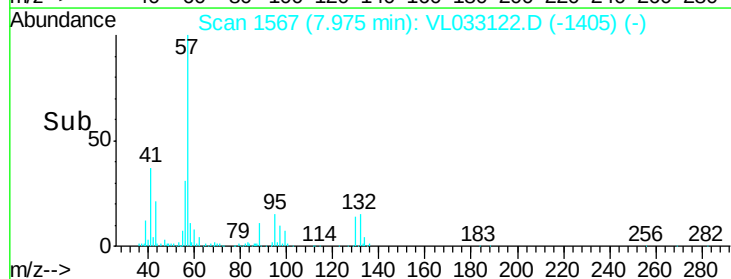
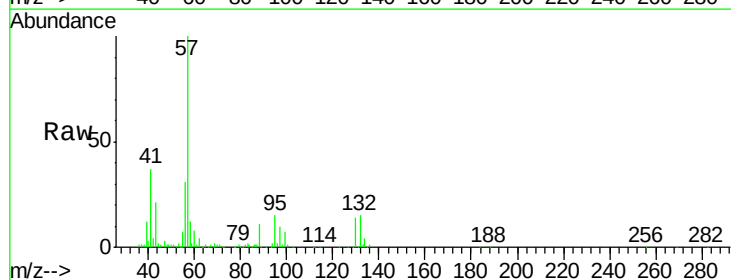
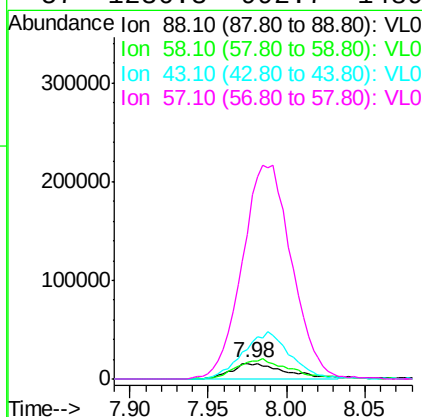
Manual Integrations
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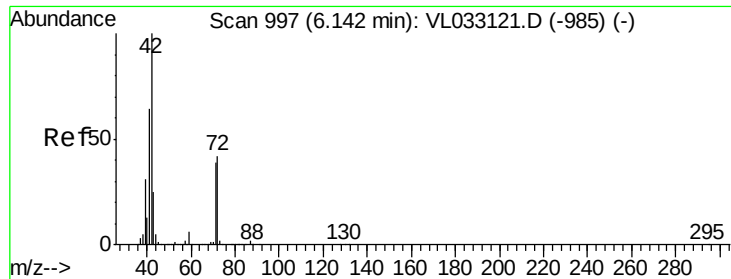
apatel
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#40
 1,4-Dioxane
 Concen: 1.042 ppbv m
 RT: 7.98 min Scan# 1567
 Delta R.T. 0.02 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.6	103.5	155.3
43	261.3	217.8	326.8
57	1236.3	992.7	1489.1





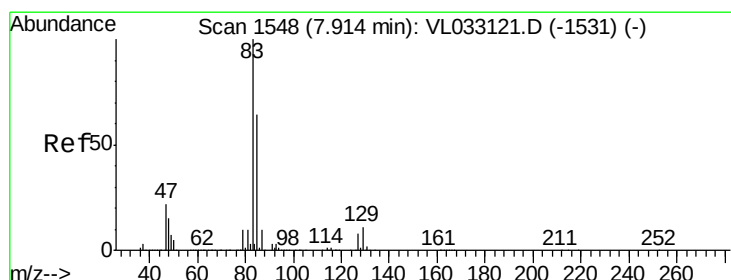
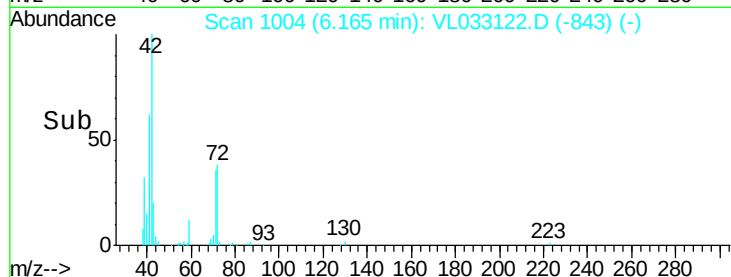
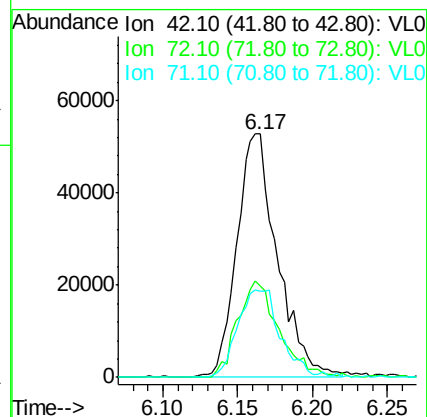
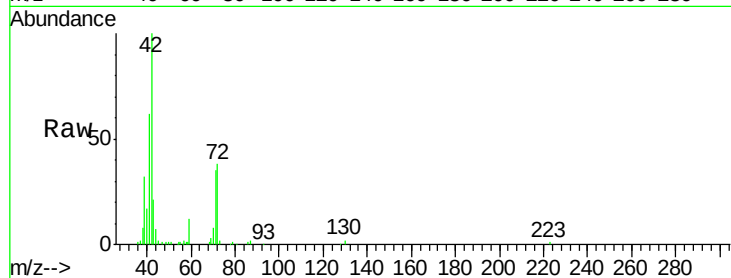
#41
Tetrahydrofuran
Concen: 1.061 ppbv
RT: 6.17 min Scan# 1004
Delta R.T. 0.02 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	33.8	50.8
71	38.2	31.6	47.4

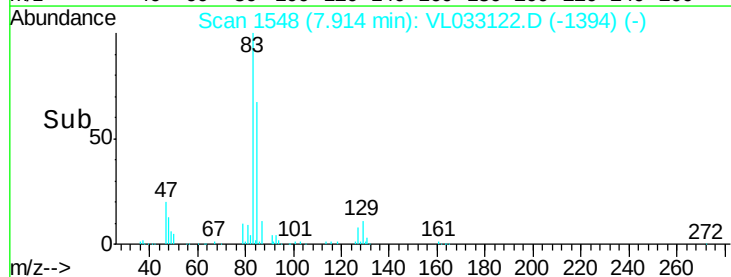
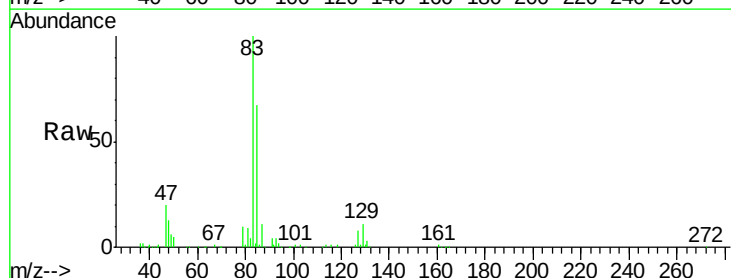
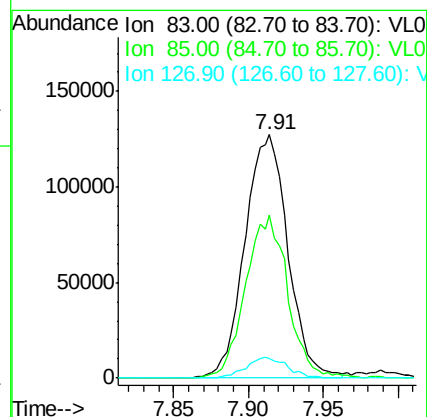
Manual Integrations
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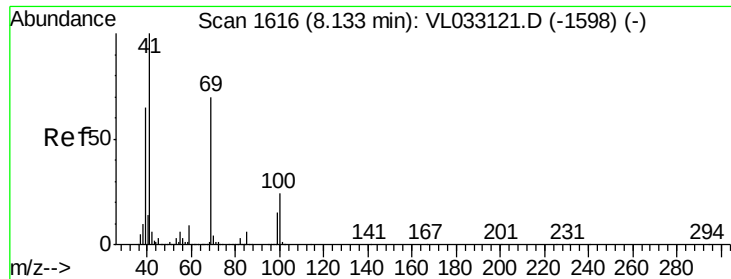
apatel
1/29/2019 2:36:36 PM



#42
Bromodichloromethane
Concen: 1.018 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	52.9	79.3
127	8.1	6.7	10.1





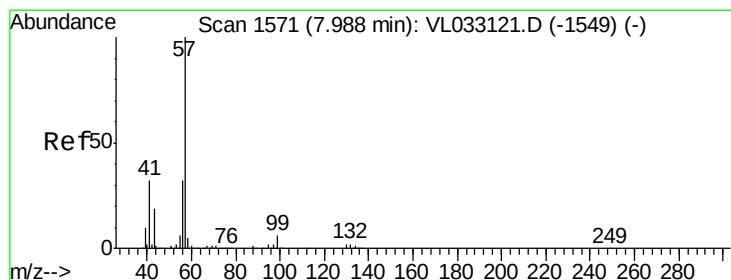
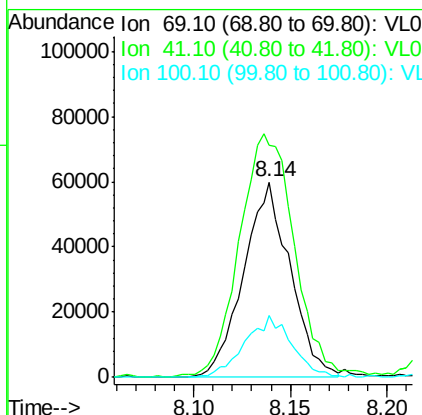
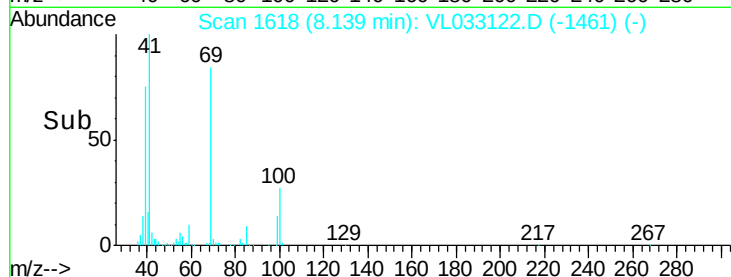
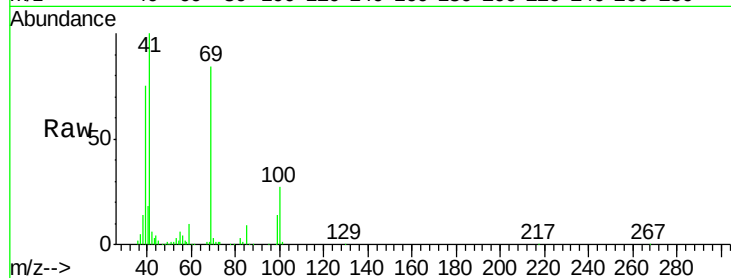
#43
Methyl Methacrylate
Concen: 1.029 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.01 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleID :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.2	113.9	170.9	
100	31.9	26.2	39.4	

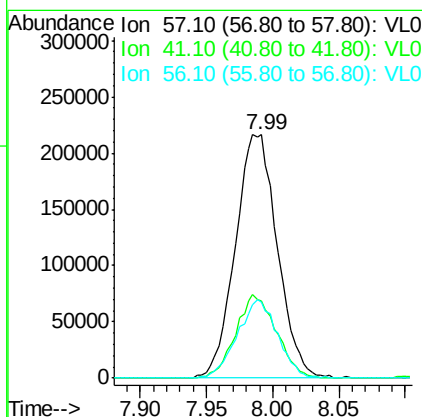
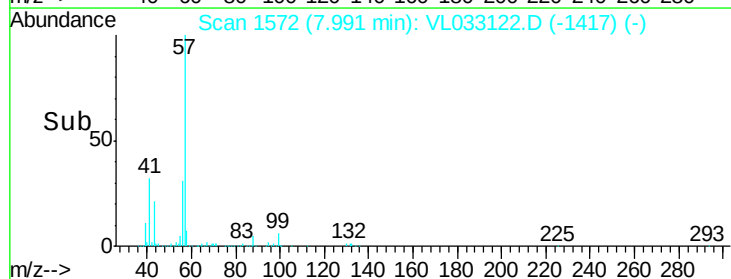
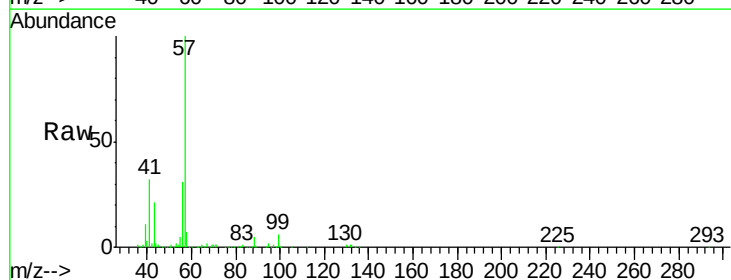
Manual Integrations
APPROVED

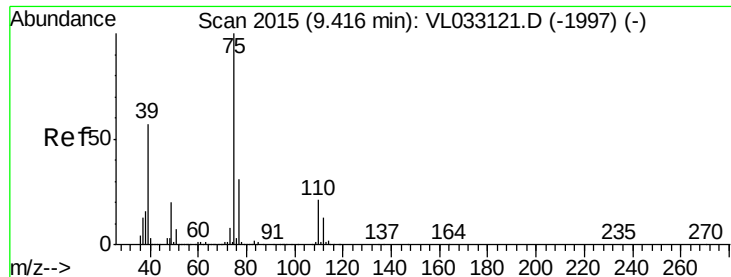
apatel
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#44
2,2,4-Trimethylpentane
Concen: 1.081 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.5	26.1	39.1	
56	30.9	25.0	37.4	





#45

t-1,3-Dichloropropene

Concen: 0.883 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 107348

Ion Ratio Lower Upper

75 100

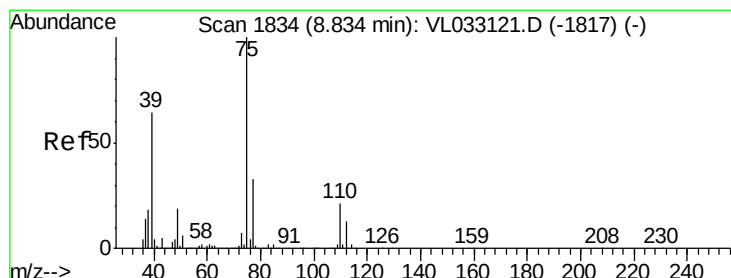
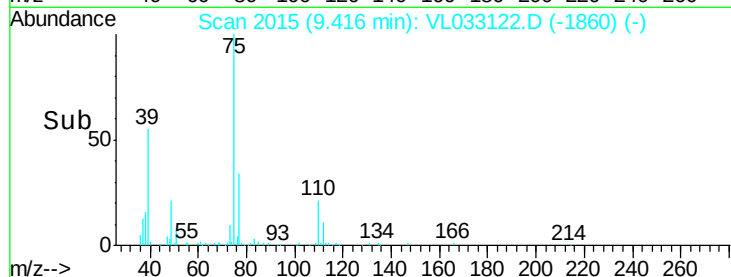
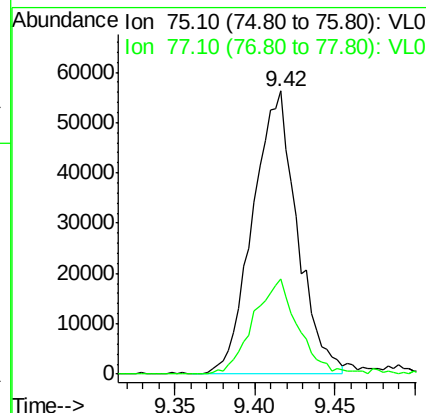
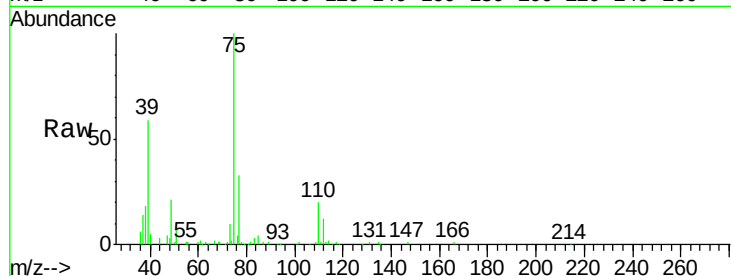
77 33.4 24.9 37.3

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#46

cis-1,3-Dichloropropene

Concen: 0.983 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

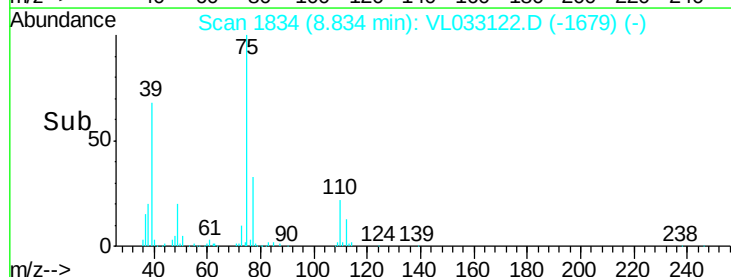
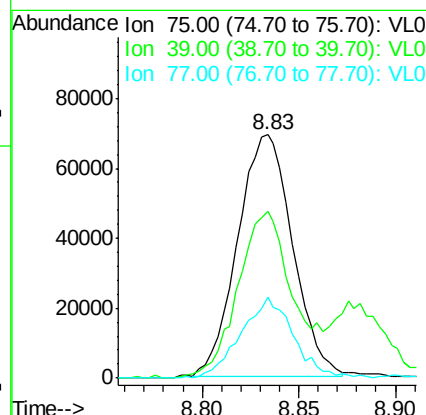
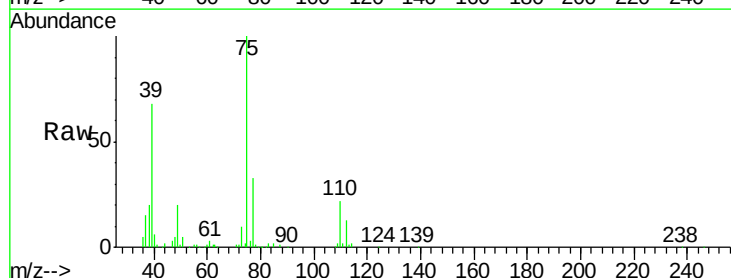
Tgt Ion: 75 Resp: 136373

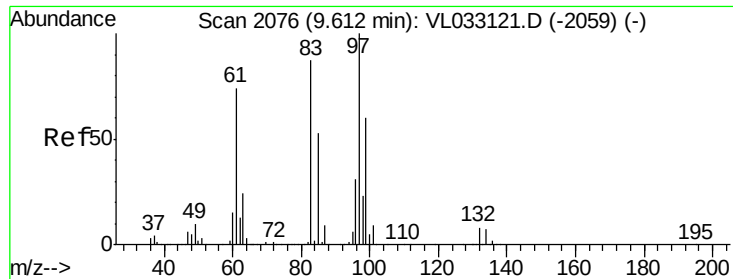
Ion Ratio Lower Upper

75 100

39 67.5 52.0 78.0

77 33.3 25.5 38.3





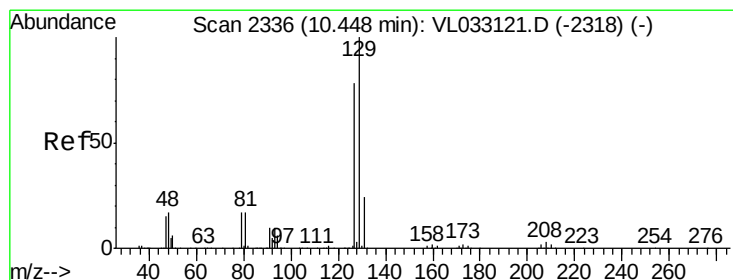
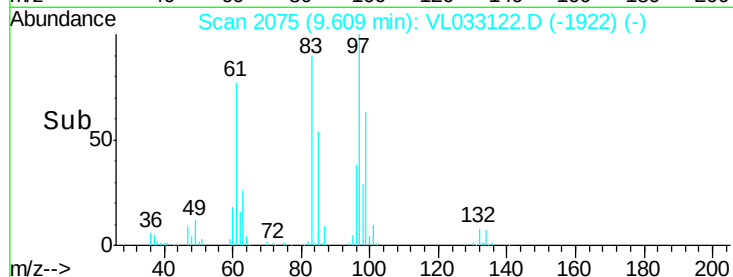
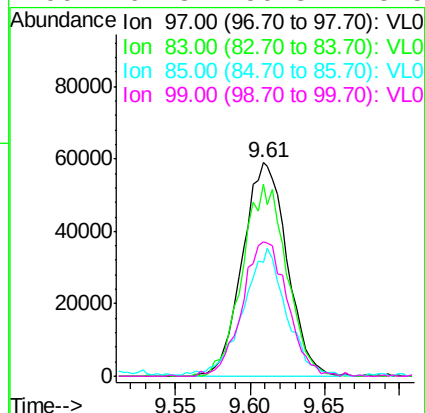
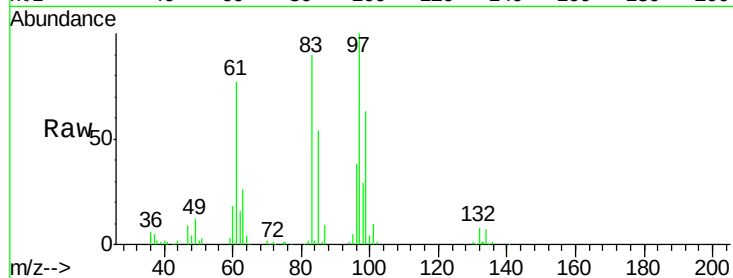
#47
 1,1,2-Trichloroethane
 Concen: 1.068 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.6	71.4	107.2
85	53.6	47.2	70.8
99	62.8	50.3	75.5

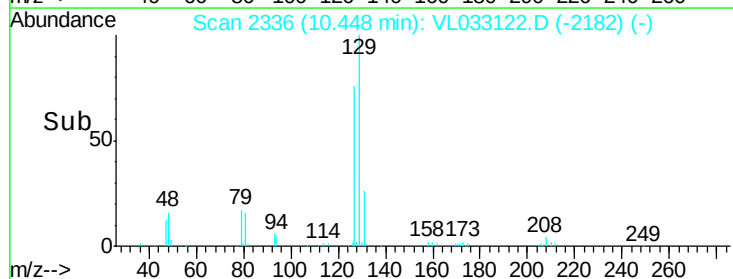
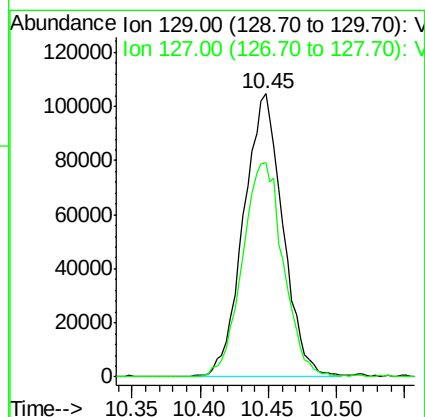
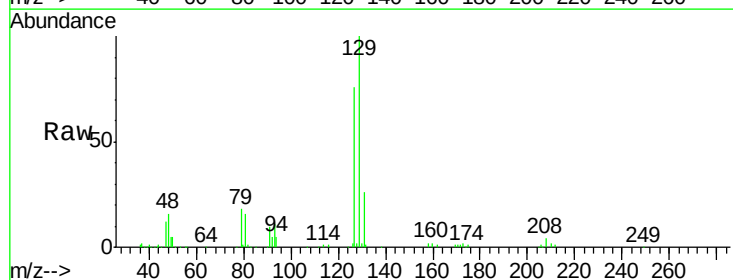
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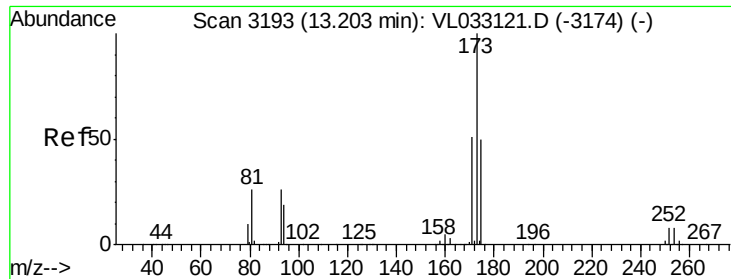
apatel
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#48
 Dibromochloromethane
 Concen: 1.038 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.3	117.9





#49

Bromoform

Concen: 0.889 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

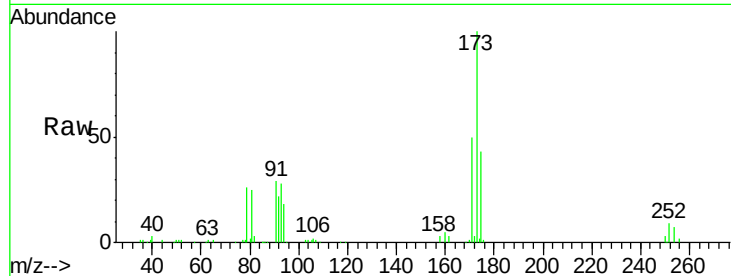
ClientSampleId :

VSTDIC001

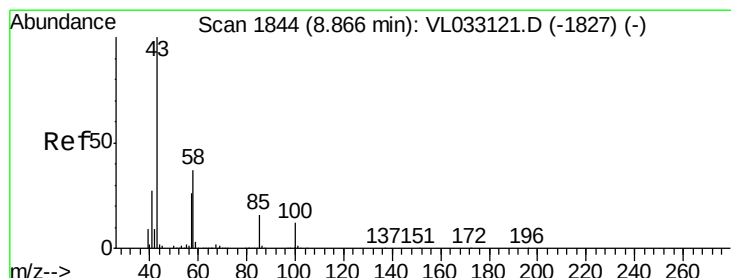
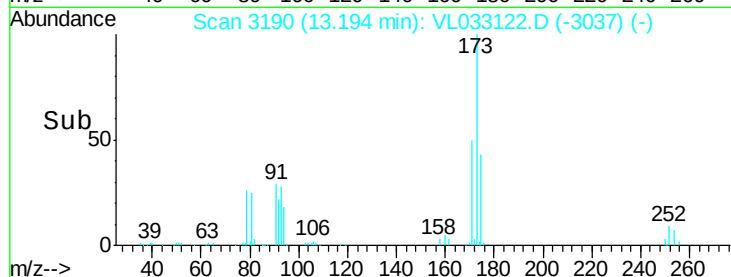
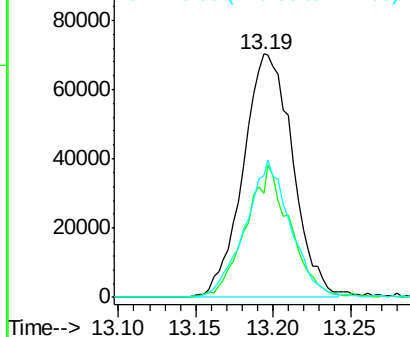
Tot Ion:	173	Resp:	156660
Ion Ratio	Lower	Upper	
173	100		
175	48.7	38.9	58.3
171	52.0	41.8	62.6

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



#50

4-Methyl-2-Pentanone

Concen: 1.060 ppbv

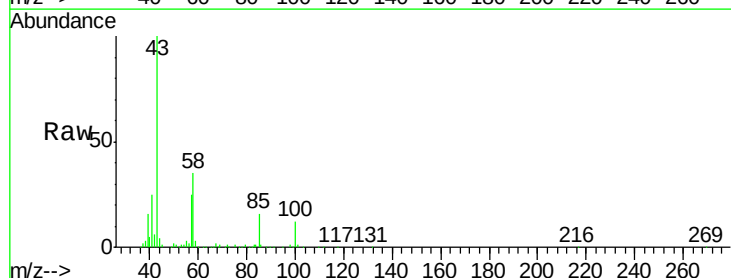
RT: 8.88 min Scan# 1848

Delta R.T. 0.01 min

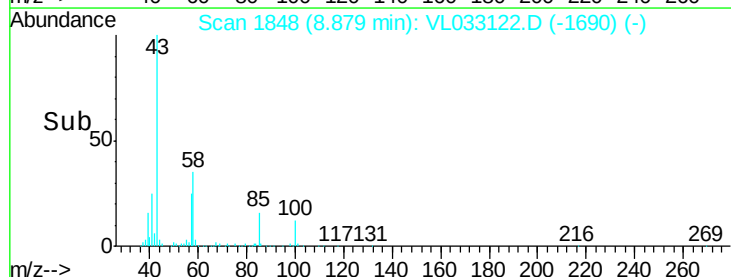
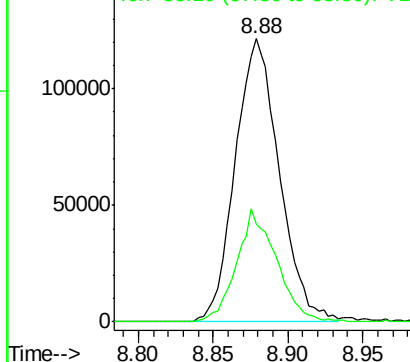
Lab File: VL033122.D

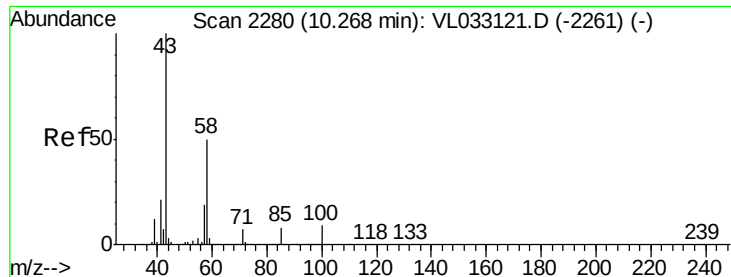
Acq: 28 Jan 2019 21:51

Tgt Ion:	43	Resp:	247950
Ion Ratio	Lower	Upper	
43	100		
58	36.4	29.4	44.0



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





#51

2-Hexanone

Concen: 1.001 ppbv m

RT: 10.29 min Scan# 2286

Delta R.T. 0.02 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

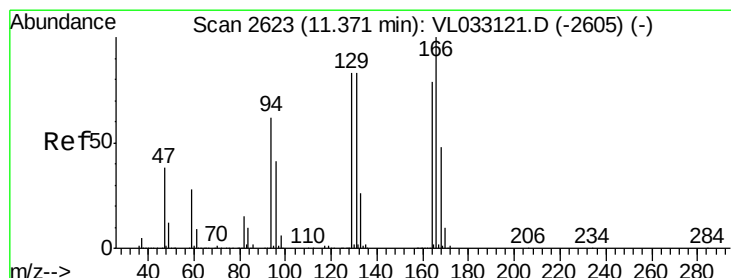
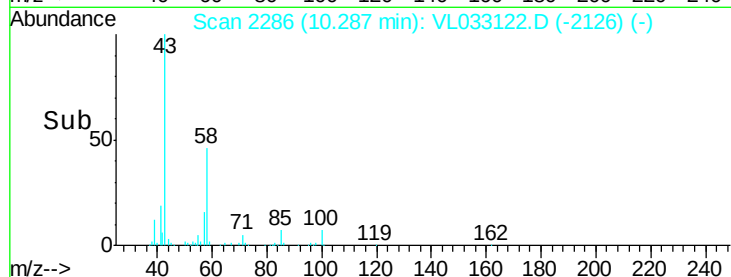
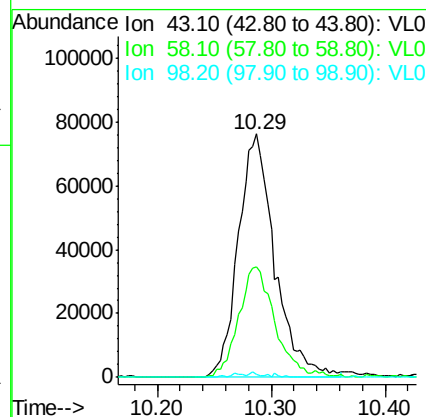
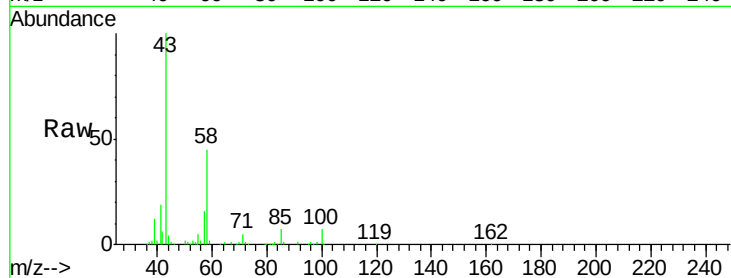
ClientSampleId :

VSTDIC001

Tot Ion:	43	Resp:	169465
Ion Ratio	Lower	Upper	
43	100		
58	46.3	39.5	59.3
98	1.6	0.3	0.5#

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#52

Tetrachloroethene

Concen: 1.104 ppbv

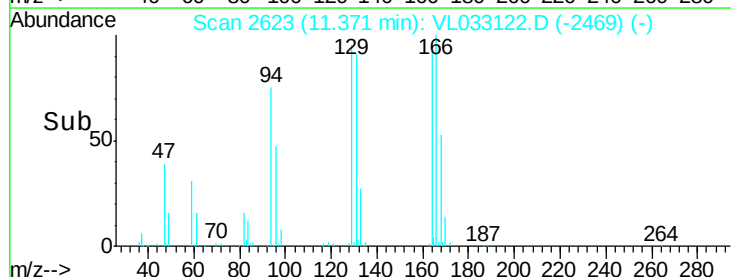
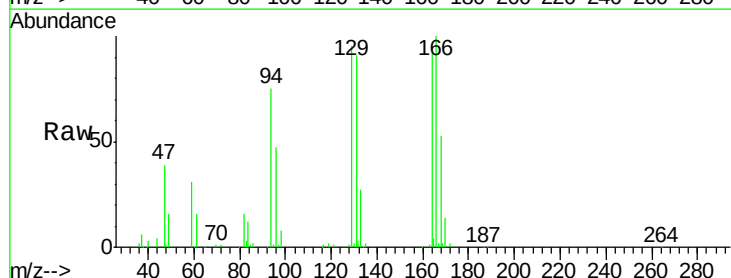
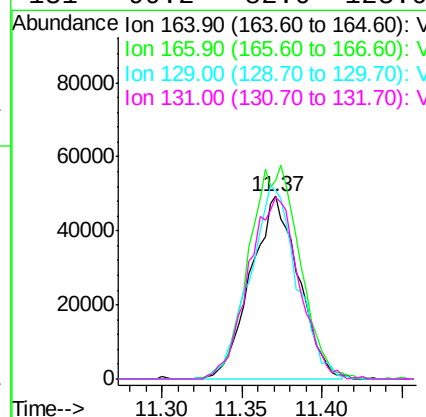
RT: 11.37 min Scan# 2623

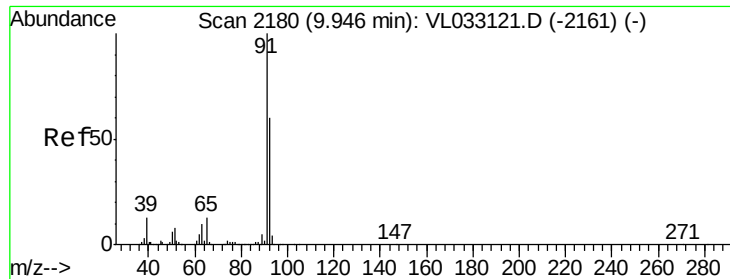
Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion:	164	Resp:	101515
Ion Ratio	Lower	Upper	
164	100		
166	108.5	101.3	151.9
129	103.3	83.3	124.9
131	99.2	82.0	123.0





#53

Toluene

Concen: 1.054 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 293887

Ion Ratio Lower Upper

91 100

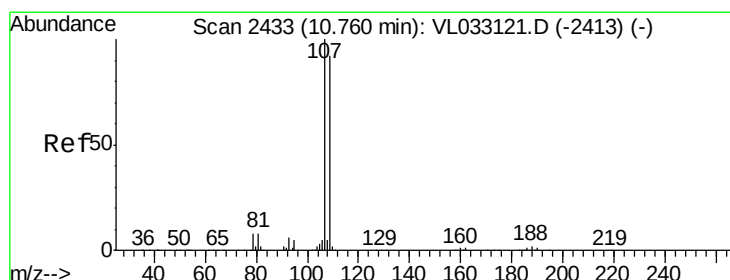
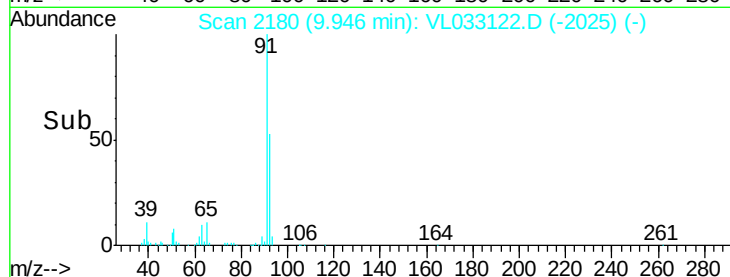
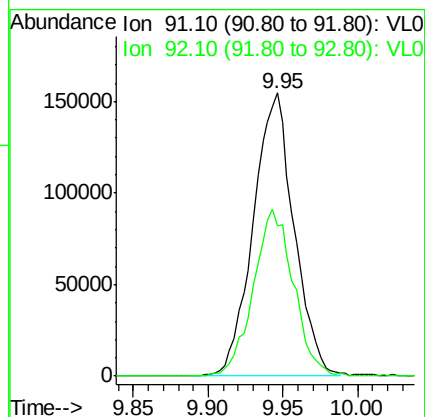
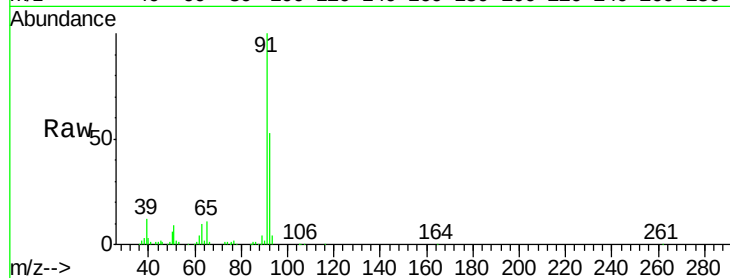
92 57.9 47.9 71.9

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#54

1,2-Dibromoethane

Concen: 1.040 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033122.D

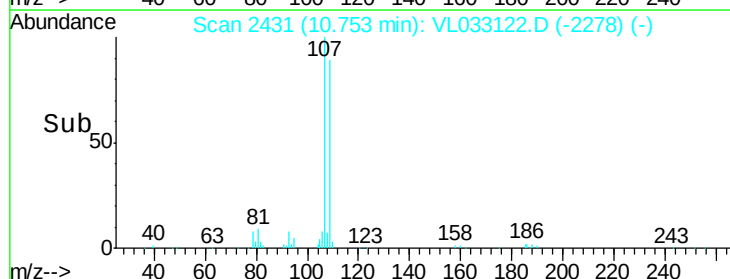
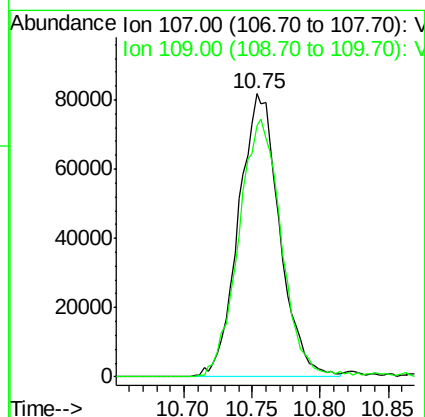
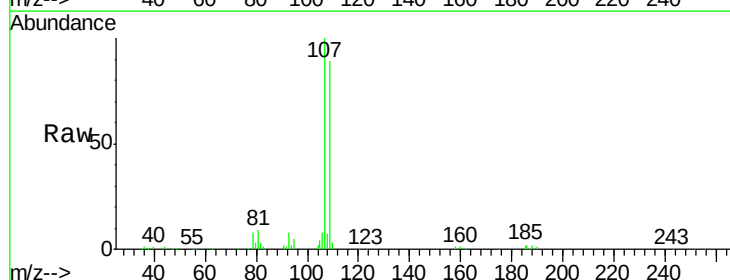
Acq: 28 Jan 2019 21:51

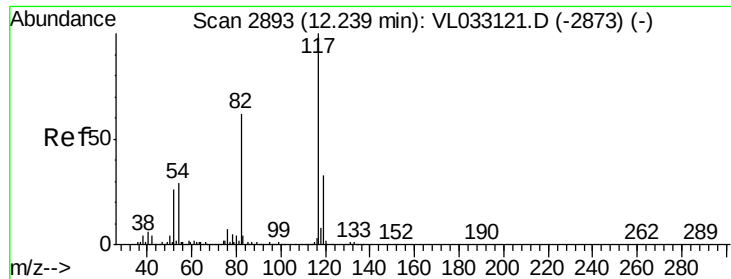
Tgt Ion: 107 Resp: 171093

Ion Ratio Lower Upper

107 100

109 88.3 75.8 113.6





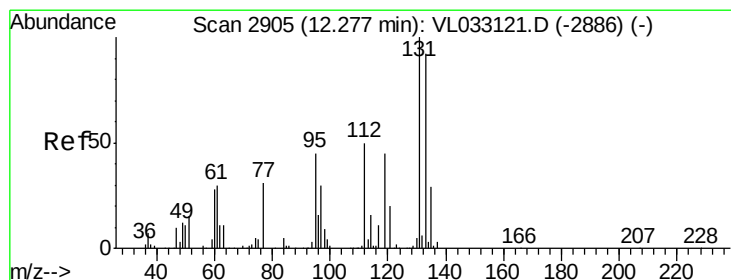
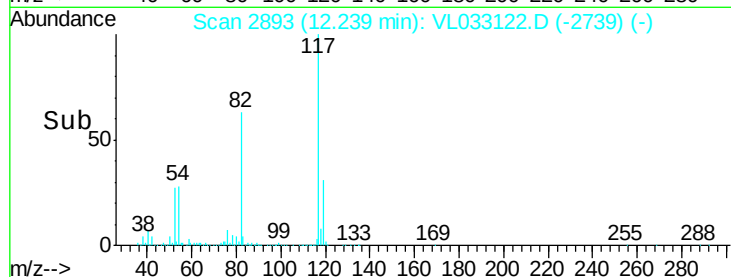
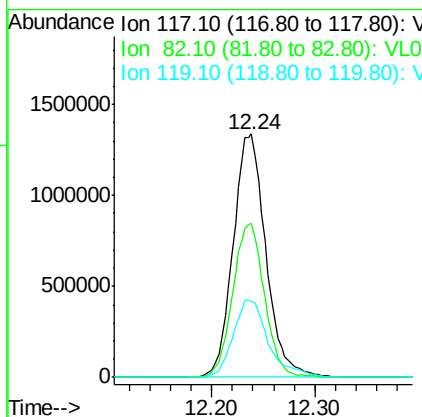
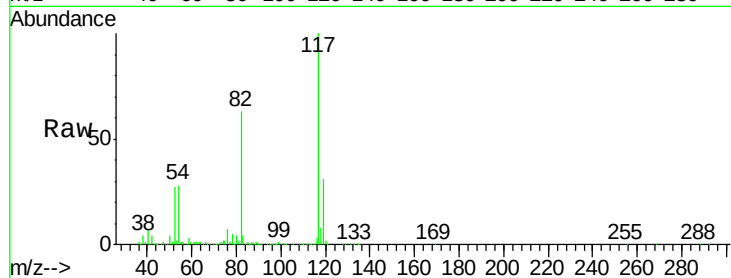
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.7	48.3	72.5
119	34.3	25.9	38.9

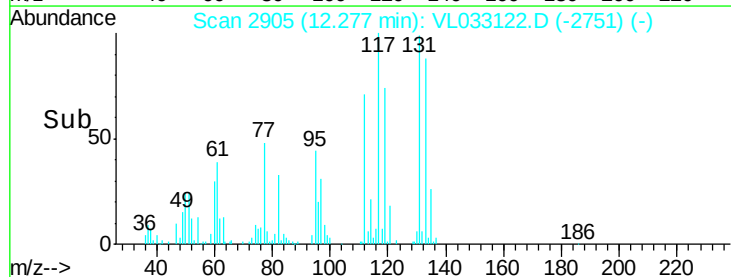
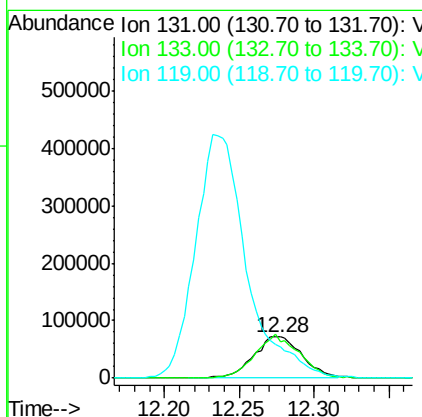
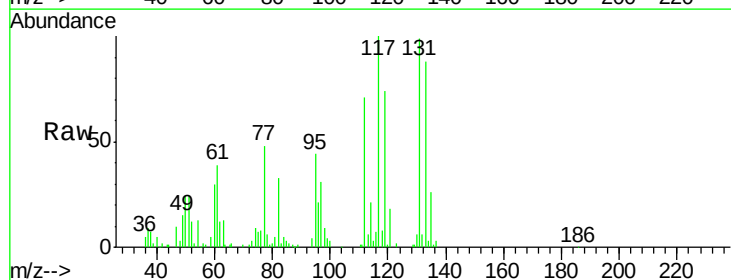
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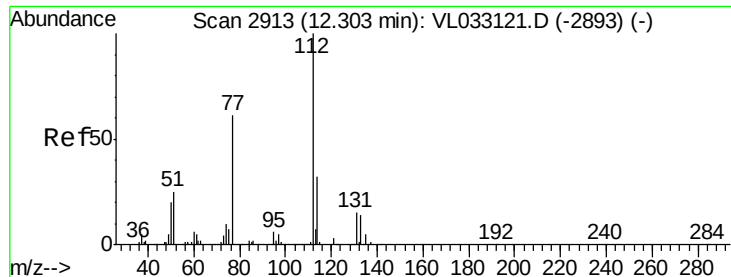
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.058 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.4	76.6	115.0
119	628.1	44.6	66.8#





#57

Chlorobenzene

Concen: 1.067 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

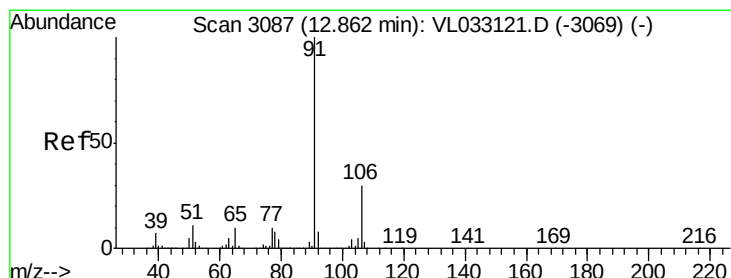
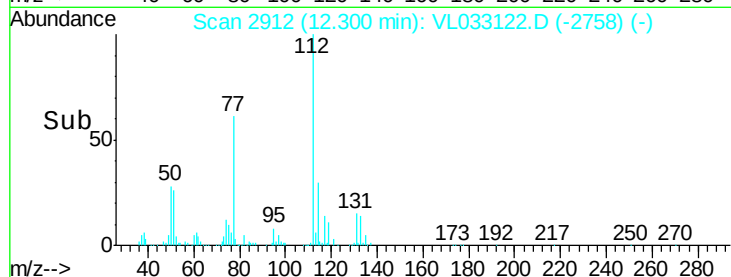
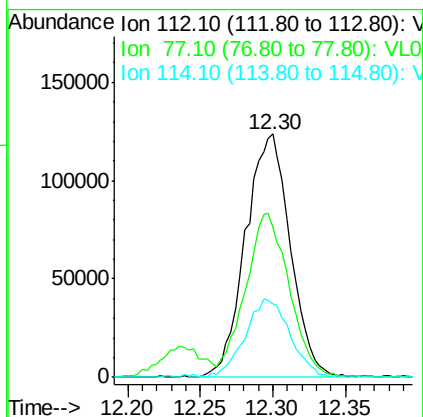
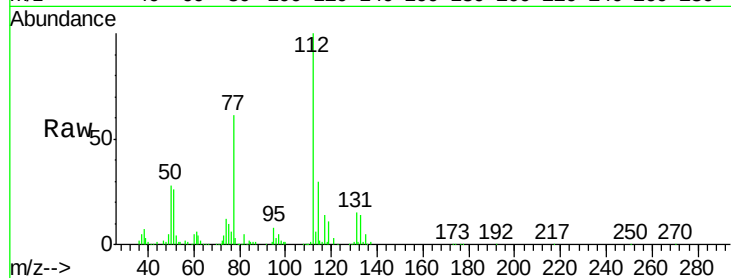
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	263178
Ion Ratio	Lower	Upper	
112	100		
77	61.6	51.6	77.4
114	29.9	27.9	34.1

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#58

Ethyl Benzene

Concen: 0.945 ppbv

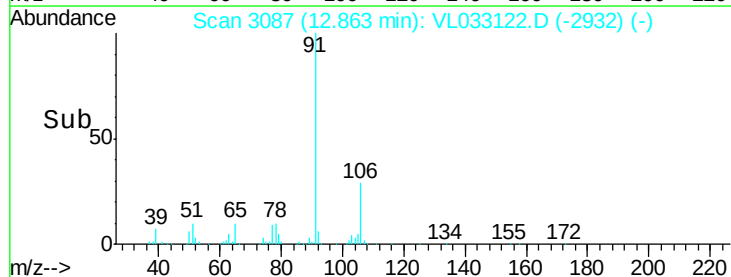
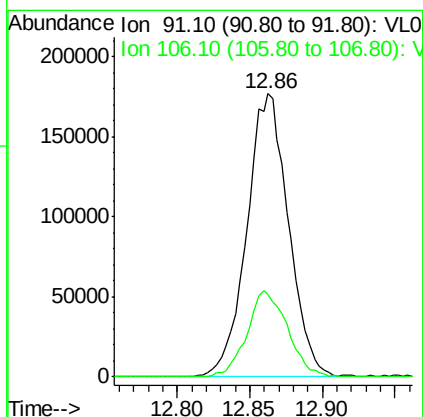
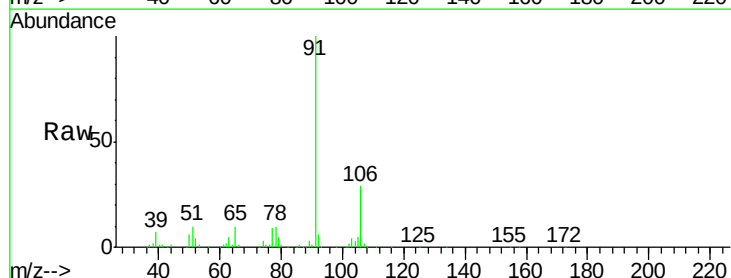
RT: 12.86 min Scan# 3087

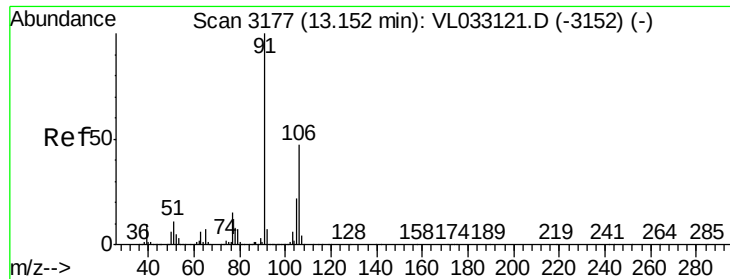
Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion:	91	Resp:	352792
Ion Ratio	Lower	Upper	
91	100		
106	29.1	24.4	36.6





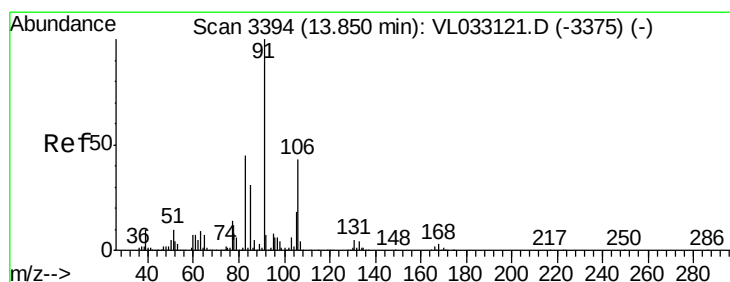
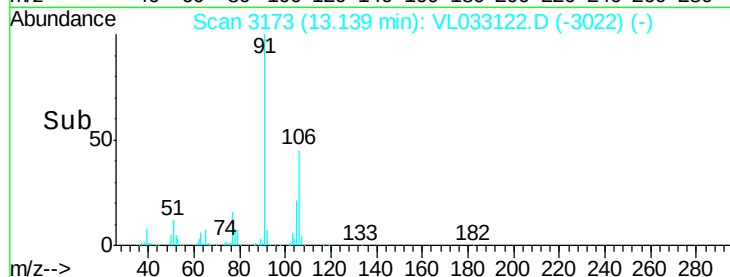
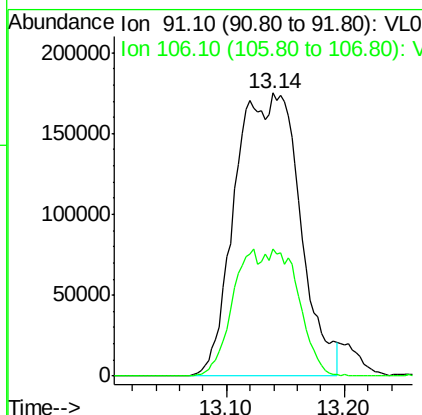
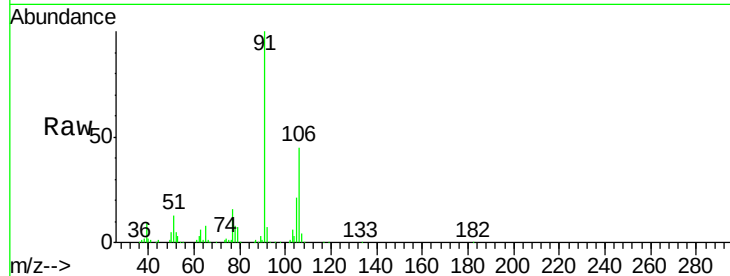
#59
m/p-Xylene
Concen: 1.939 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. -0.01 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

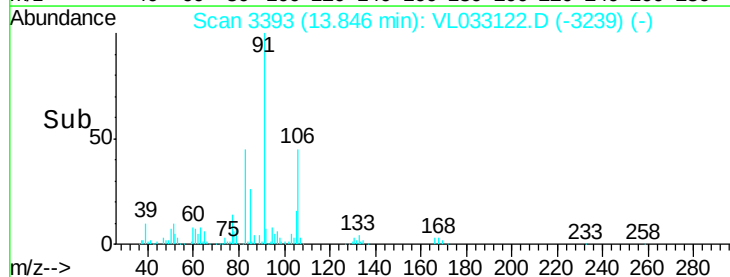
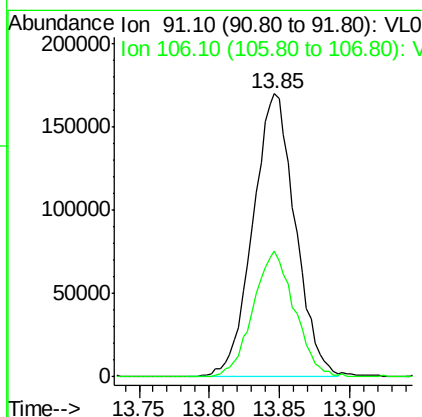
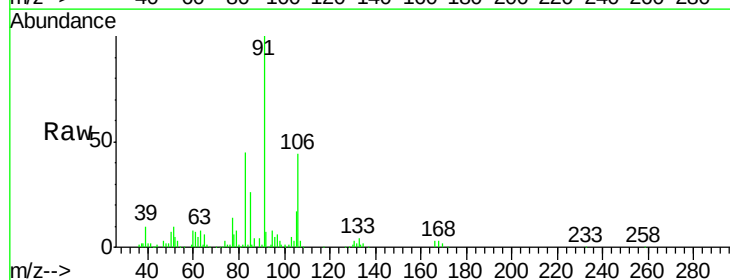
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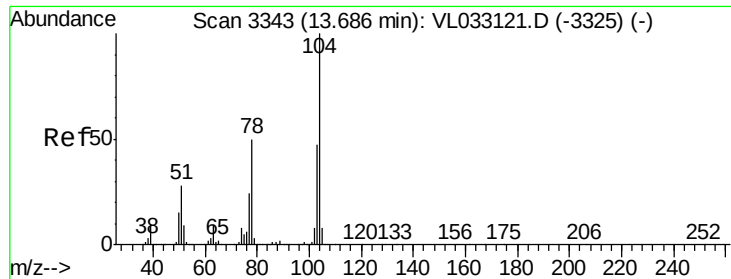
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#60
o-Xylene
Concen: 1.056 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
91	100		
106	43.7	22.6	67.8





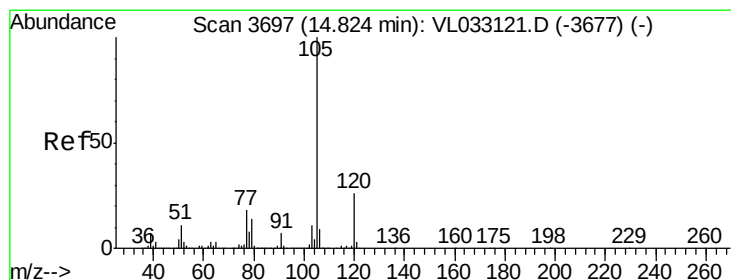
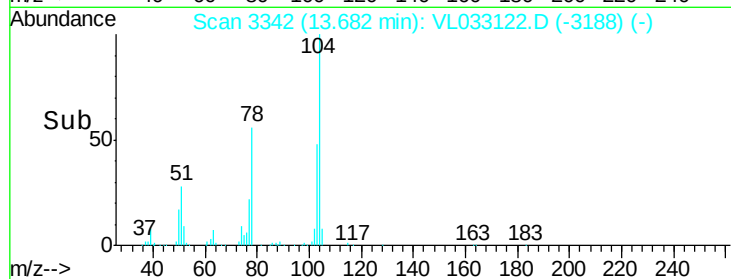
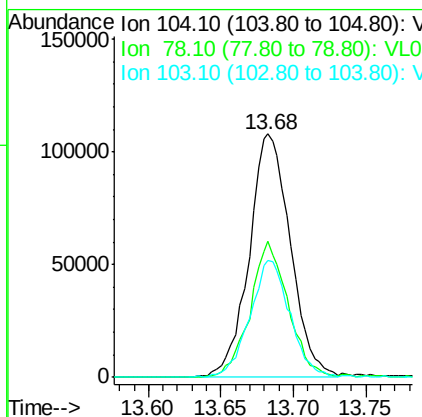
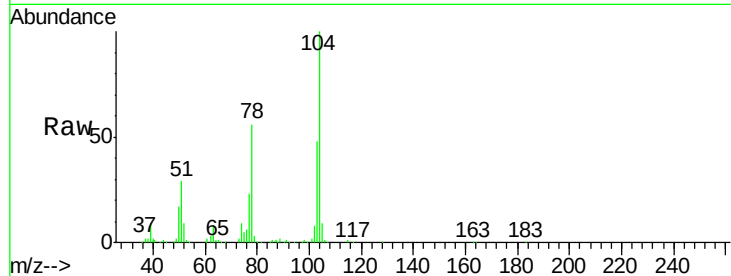
#61
Stvrene
Concen: 0.990 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
104	100	213568		
78	52.4		41.4	62.0
103	47.2		37.8	56.6

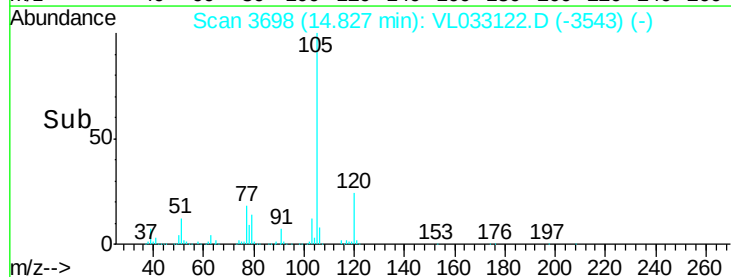
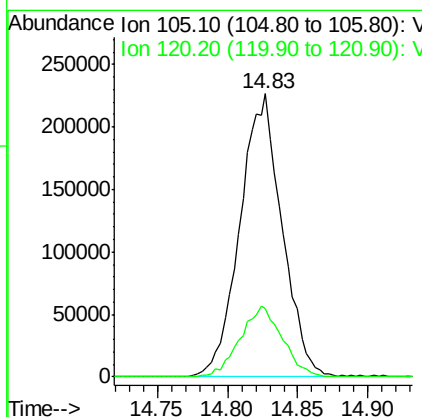
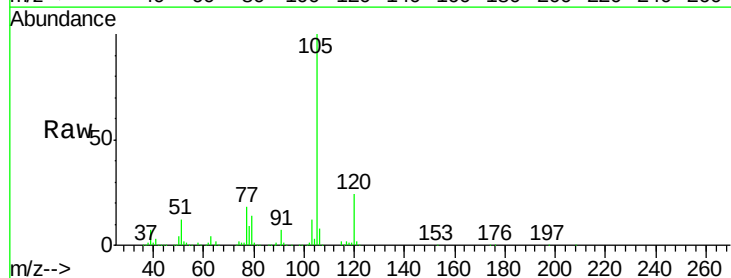
Manual Integrations
APPROVED

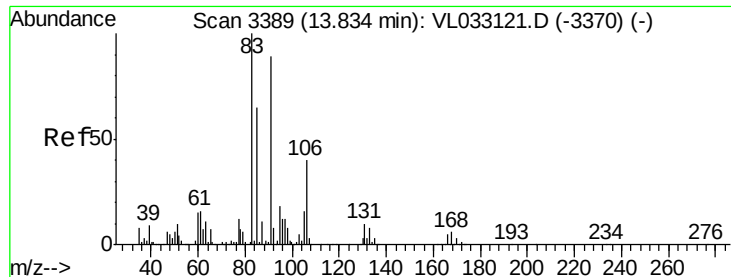
apatel
1/29/2019 2:36:36 PM



#62
Isopropylbenzene
Concen: 0.977 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	469951		
120	25.2		20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 1.070 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

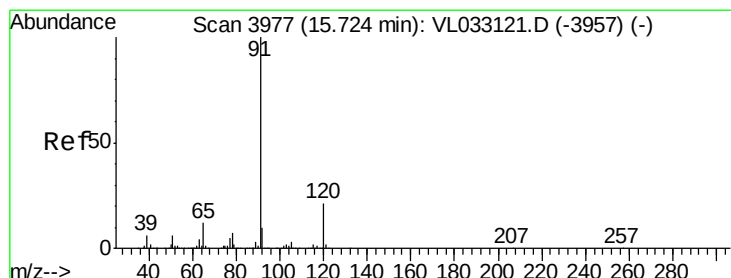
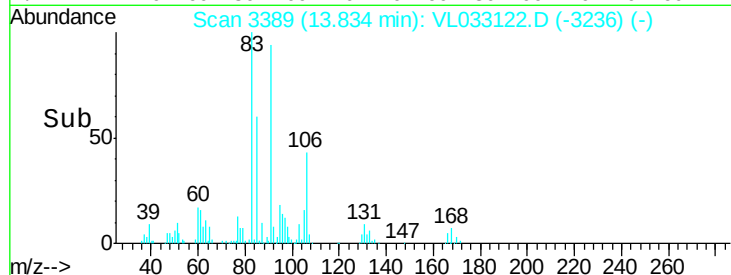
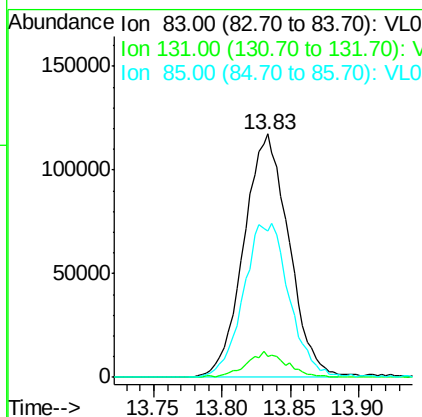
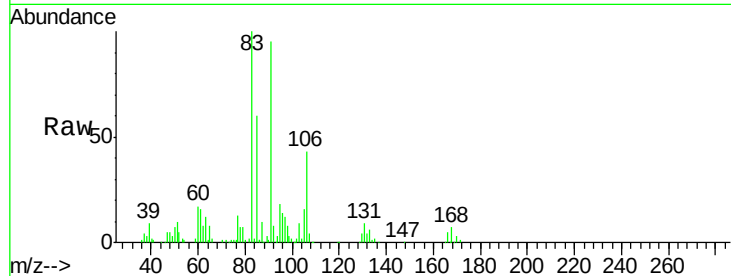
ClientSampleId :

VSTDIC001

Tot Ion:	83	Resp:	268639
Ion Ratio	Lower	Upper	
83	100		
131	9.6	4.9	14.6
85	64.6	32.5	97.4

Manual Integrations
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#64

n-propylbenzene

Concen: 0.935 ppbv

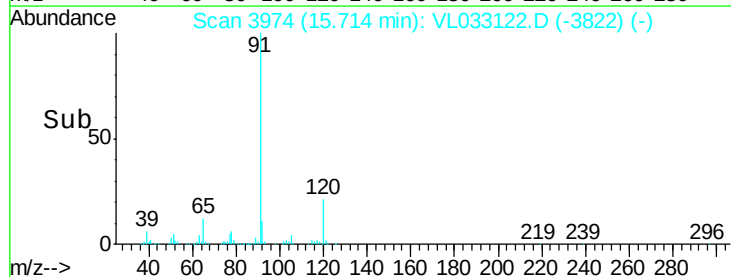
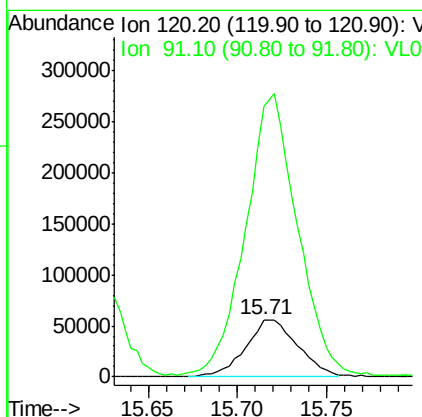
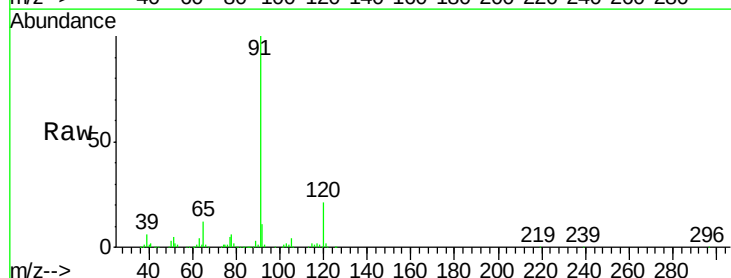
RT: 15.71 min Scan# 3974

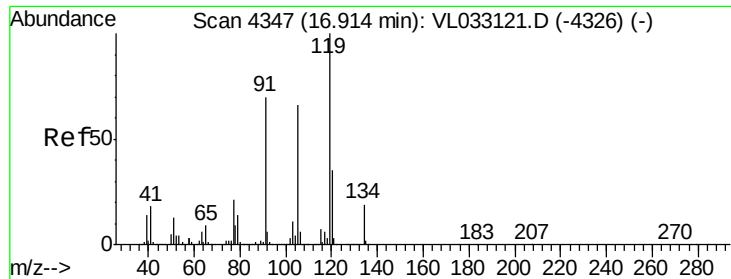
Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion:	120	Resp:	114241
Ion Ratio	Lower	Upper	
120	100		
91	502.5	375.7	563.5





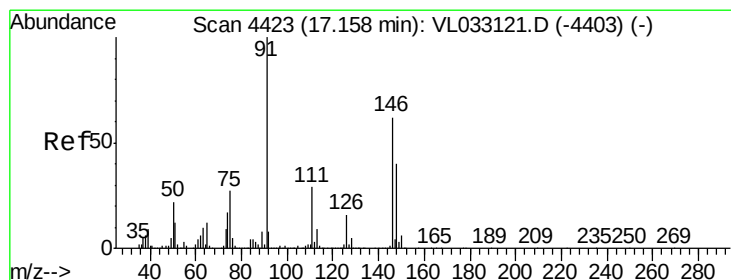
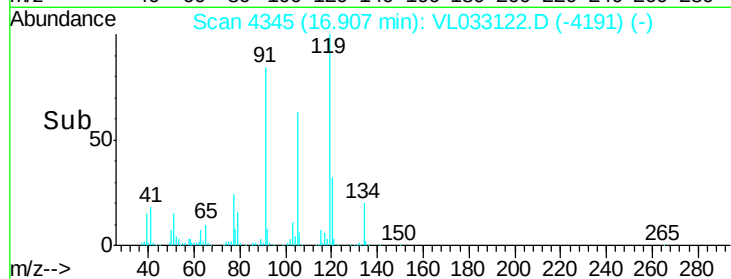
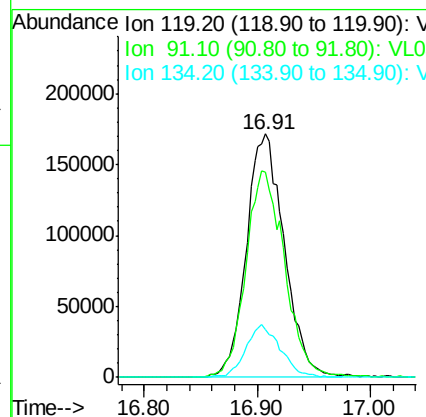
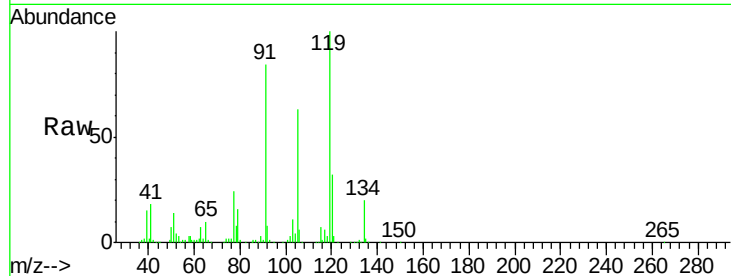
#65
 tert-Butylbenzene
 Concen: 0.938 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	399462		
91	86.9	64.5	96.7	
134	19.9	15.7	23.5	

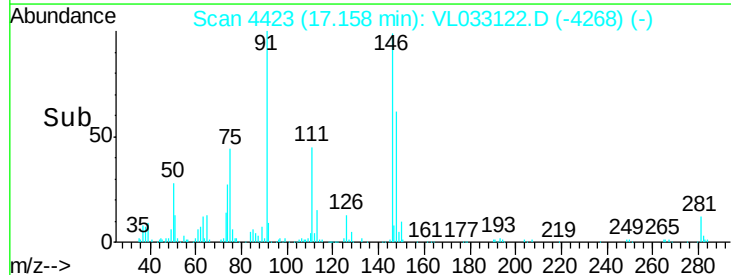
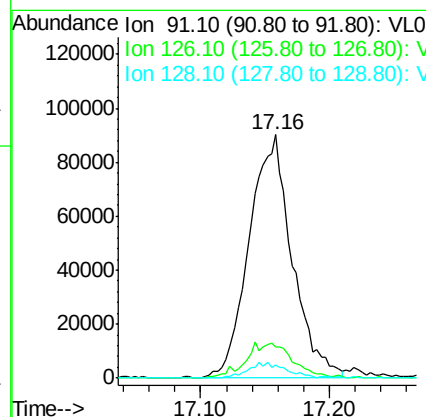
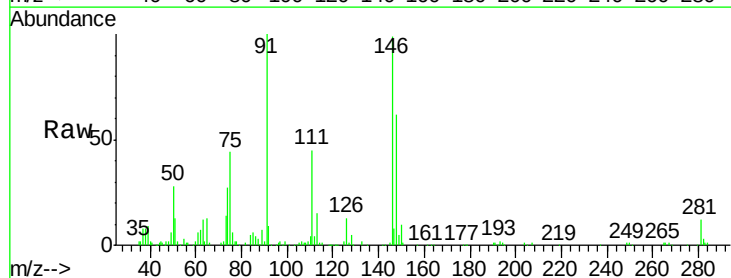
Manual Integrations
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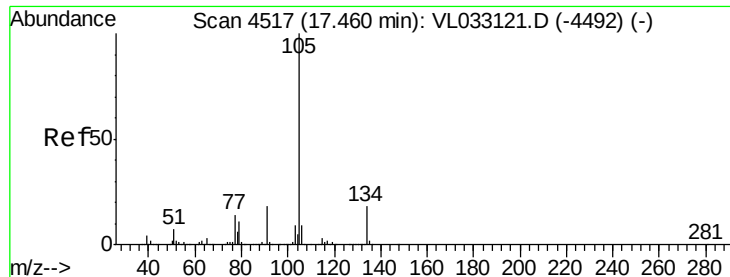
apatel
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#66
 Benzyl Chloride
 Concen: 0.852 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	206852		
126	16.2	14.3	21.5	
128	6.1	4.6	7.0	





#67

sec-Butylbenzene

Concen: 0.968 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 590191

Ion Ratio Lower Upper

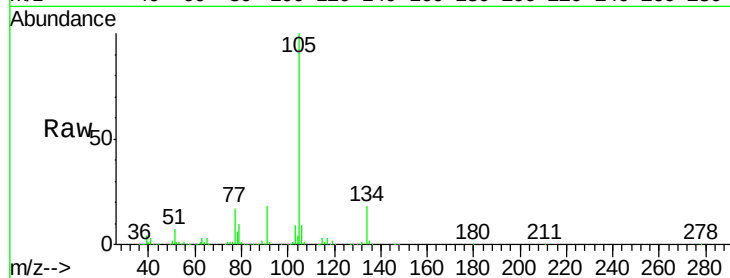
105 100

134 17.7 14.8 22.2

Manual Integrations
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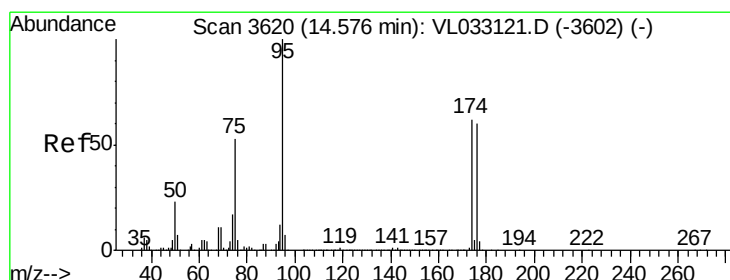
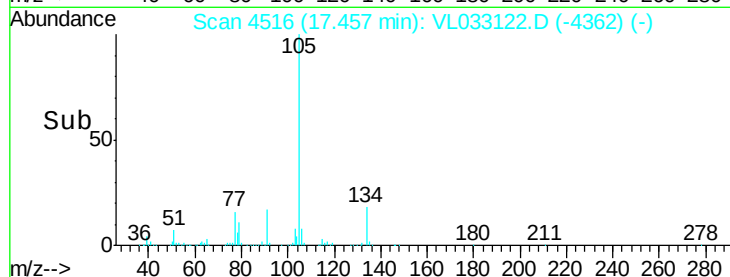
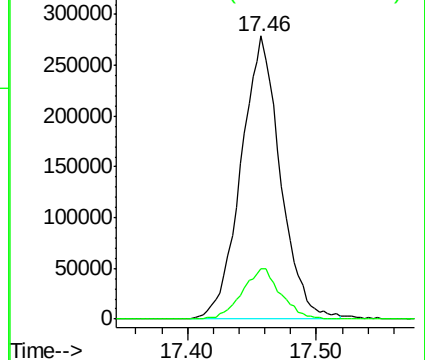
apatel

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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: 8.973 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

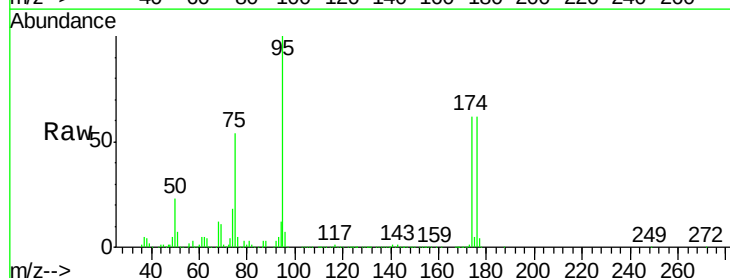
Tgt Ion: 95 Resp: 2033296

Ion Ratio Lower Upper

95 100

174 65.2 51.4 77.2

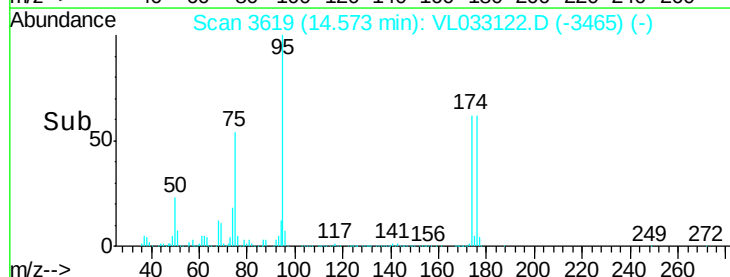
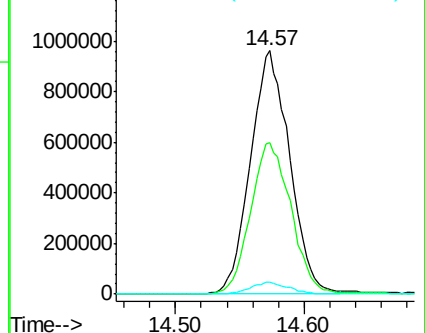
175 4.7 4.0 6.0

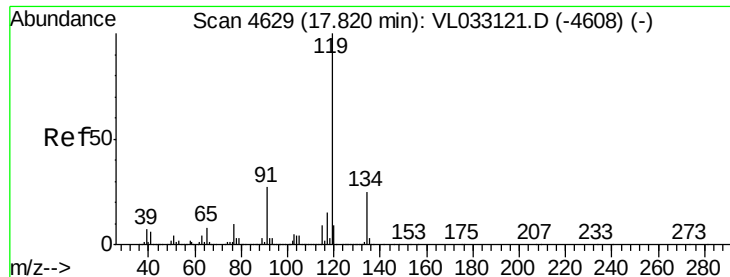


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





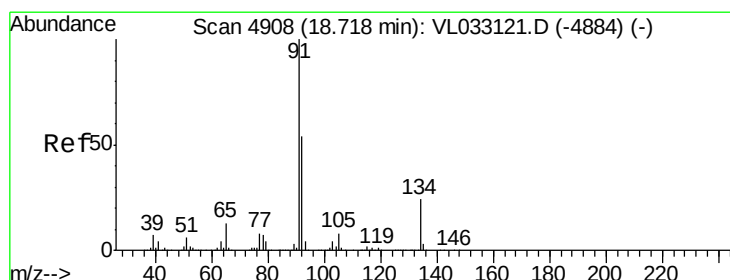
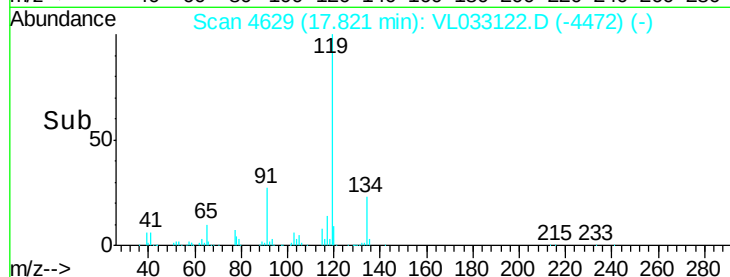
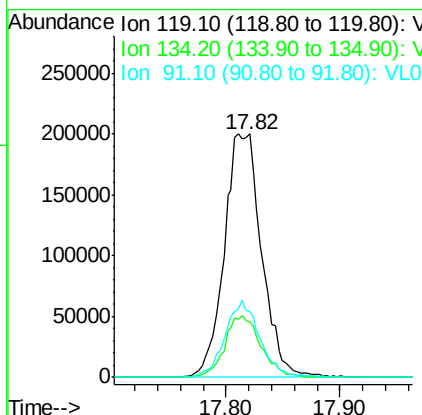
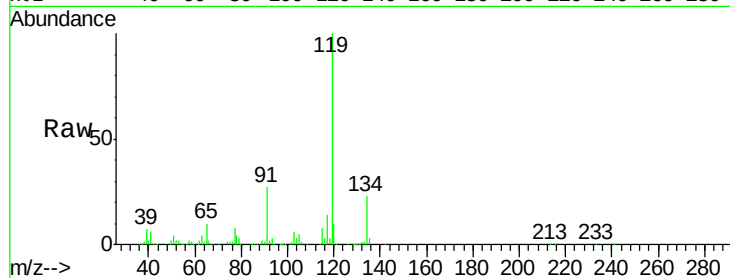
#69
 p-Isopropyltoluene
 Concen: 0.922 ppbv m
 RT: 17.82 min Scan# 4629
 Delta R.T. 0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	456076		
134	24.6	20.4	30.6	
91	29.7	22.8	34.2	

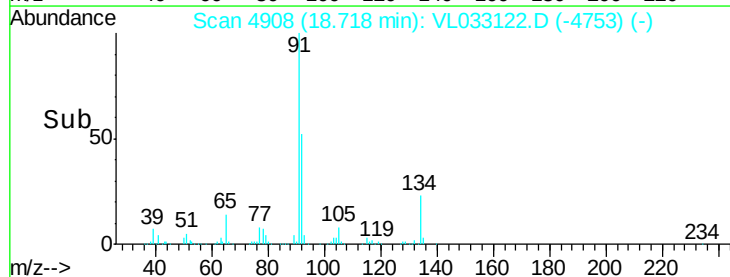
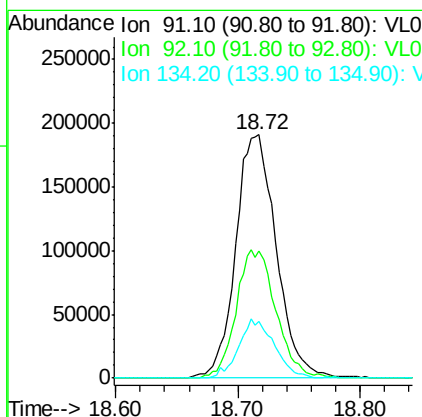
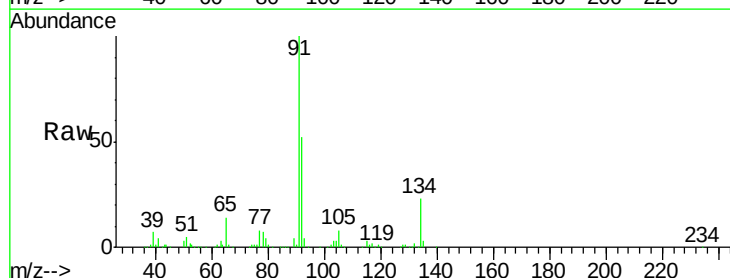
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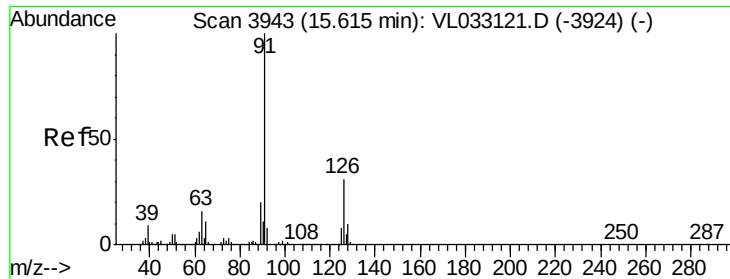
apatel
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#70
 n-Butylbenzene
 Concen: 0.877 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	436540		
92	52.0	43.0	64.6	
134	21.7	18.4	27.6	





#71

2-Chlorotoluene

Concen: 0.908 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 309842

Ion Ratio Lower Upper

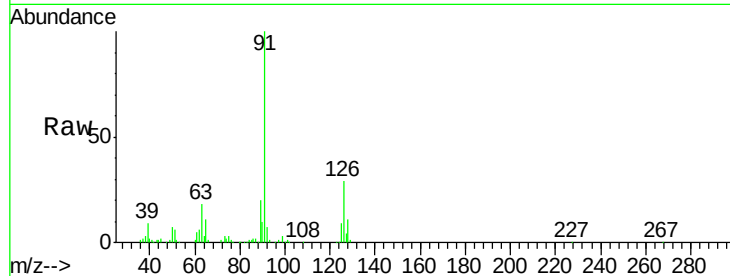
91 100

126 29.7 12.4 49.8

Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

250000

200000

150000

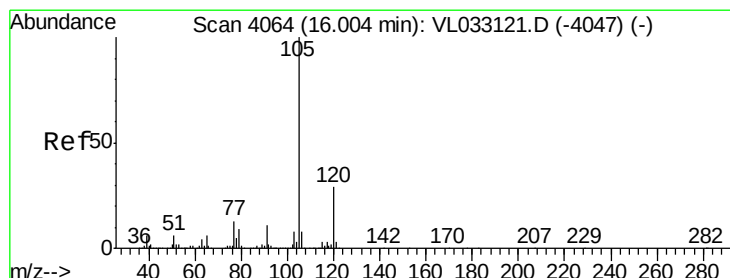
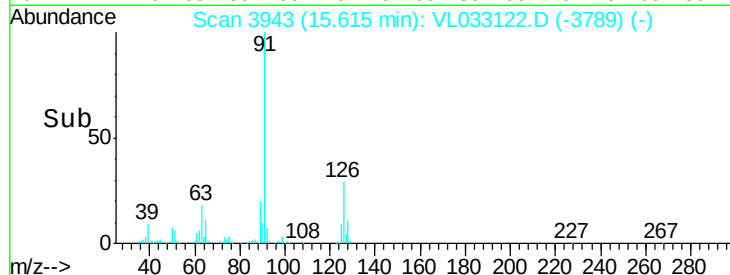
100000

50000

0

15.55 15.60 15.65

Time-->



#72

4-Ethyltoluene

Concen: 0.920 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion: 105 Resp: 341679

Ion Ratio Lower Upper

105 100

120 29.0 23.5 35.3

91 14.9 10.3 15.5

77 14.5 11.0 16.4

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

250000

200000

150000

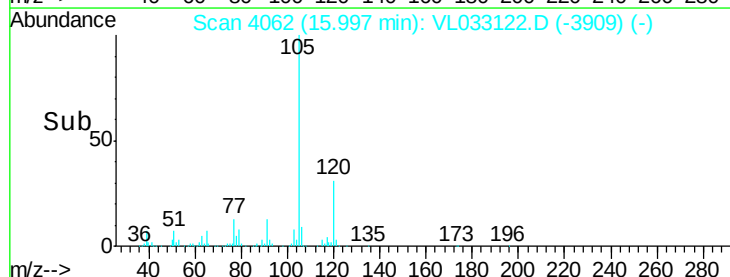
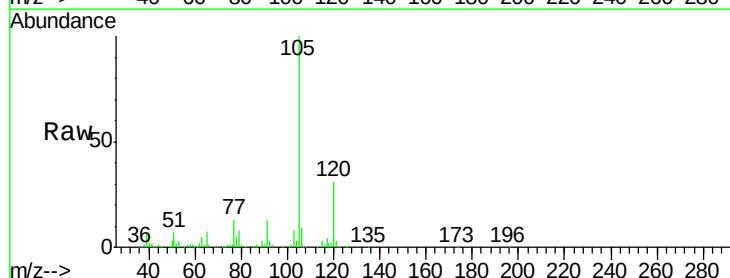
100000

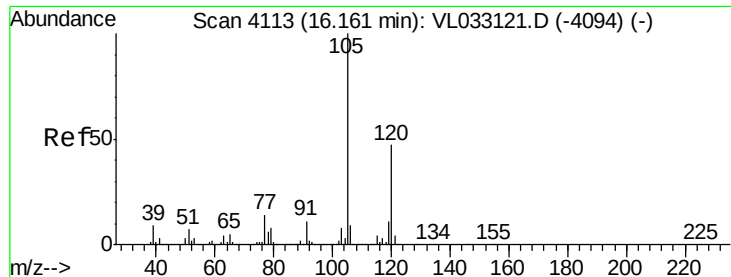
50000

0

15.90 16.00 16.10

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 0.915 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 335324

Ion Ratio Lower Upper

105 100

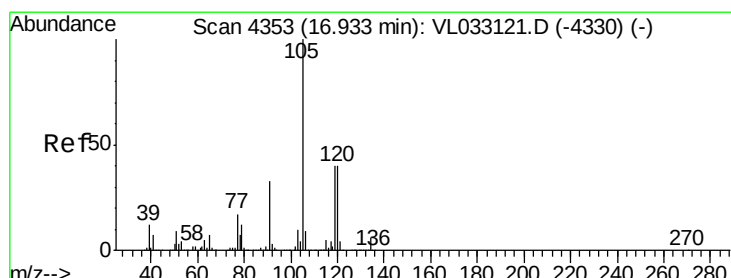
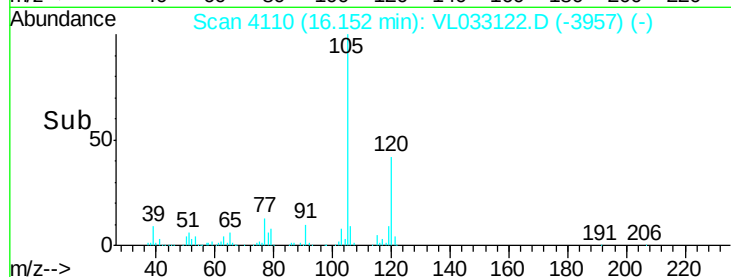
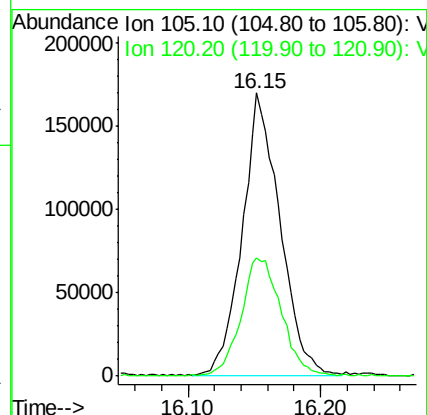
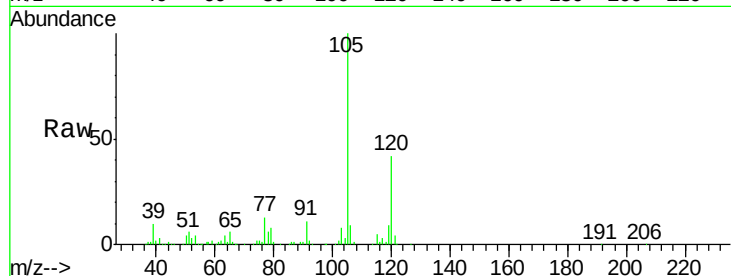
120 41.2 37.5 56.3

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 0.909 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion:105 Resp: 368948

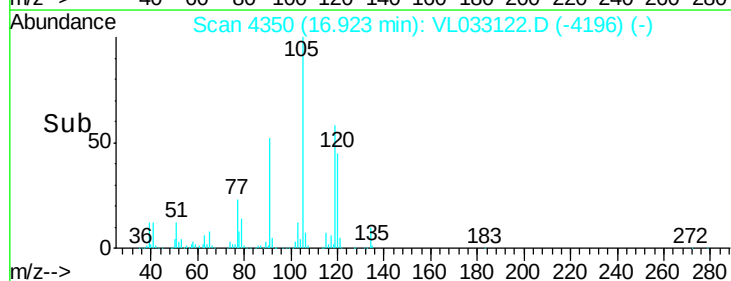
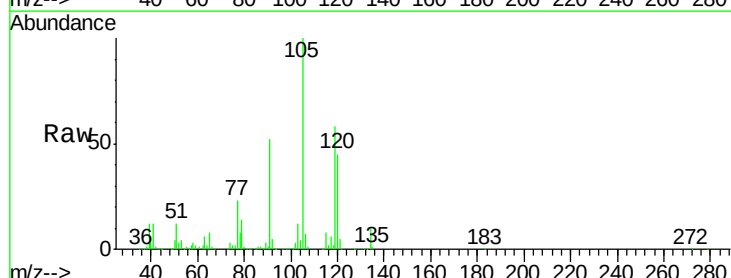
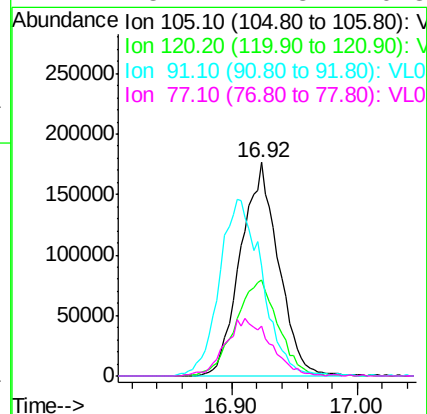
Ion Ratio Lower Upper

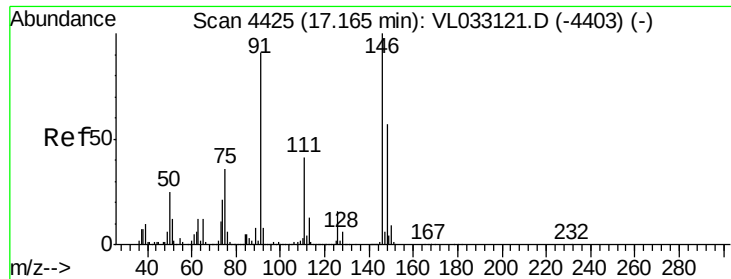
105 100

120 44.5 37.9 56.9

91 51.1 39.8 59.8

77 23.2 17.8 26.8





#75

1,3-Dichlorobenzene

Concen: 0.933 ppbv m

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

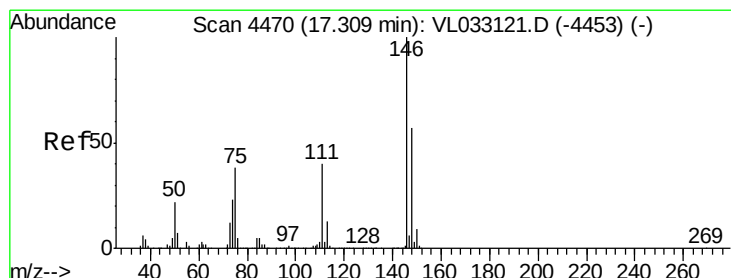
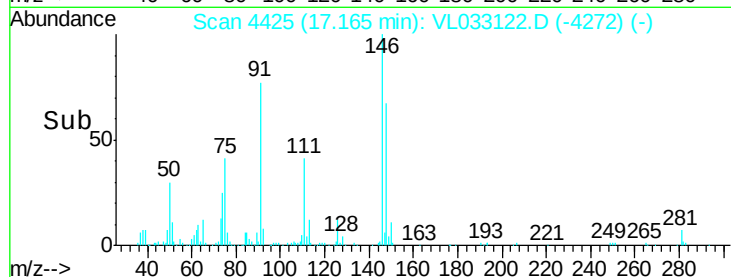
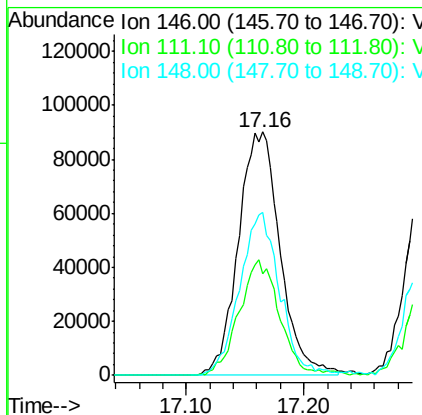
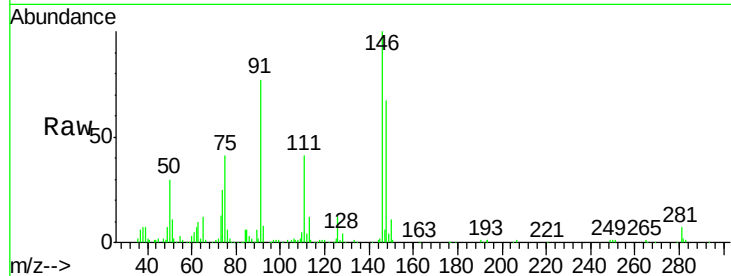
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	222957
Ion Ratio	Lower	Upper	
146	100		
111	46.3	23.4	70.0
148	64.8	32.1	96.3

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 0.878 ppbv

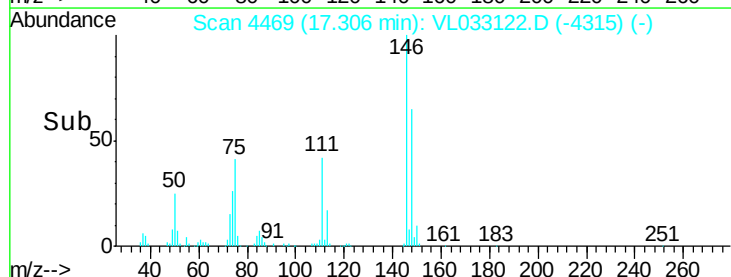
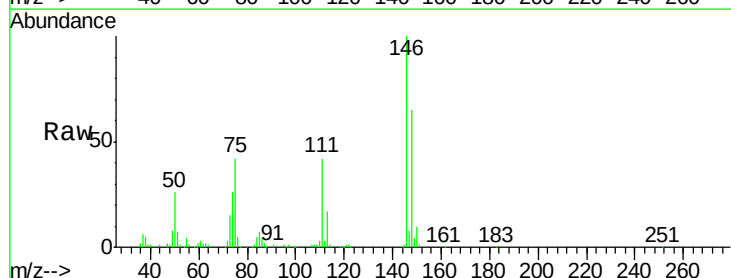
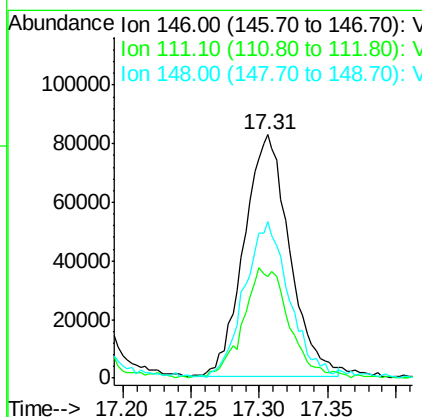
RT: 17.31 min Scan# 4469

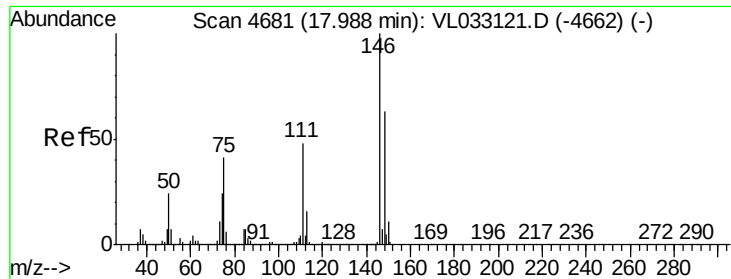
Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion:	146	Resp:	191093
Ion Ratio	Lower	Upper	
146	100		
111	47.0	22.7	68.0
148	65.3	32.1	96.3





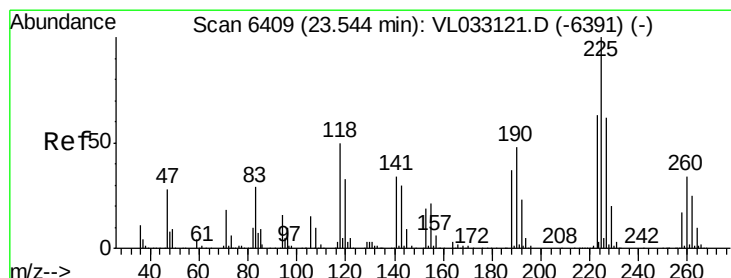
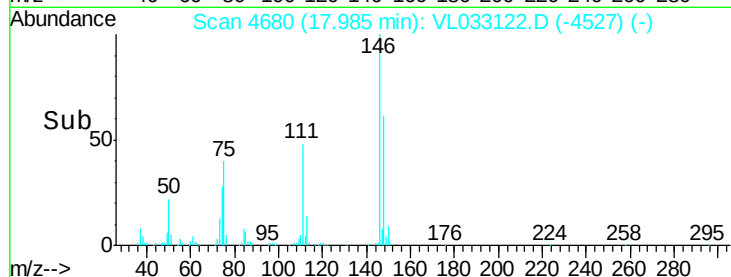
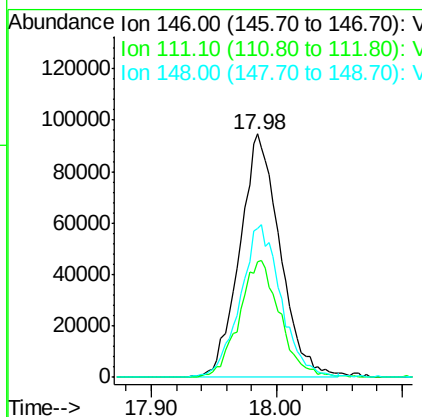
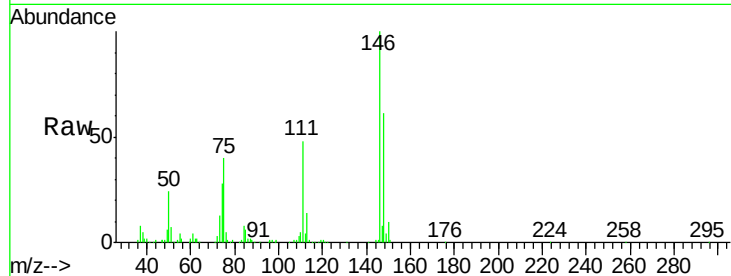
#77
 1,2-Dichlorobenzene
 Concen: 0.982 ppbv
 RT: 17.98 min Scan# 4680
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.4	73.2
148	63.6	32.6	97.7

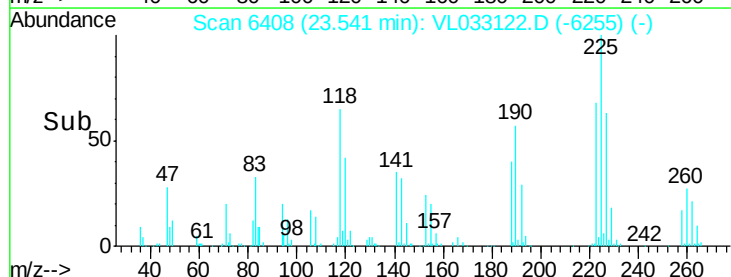
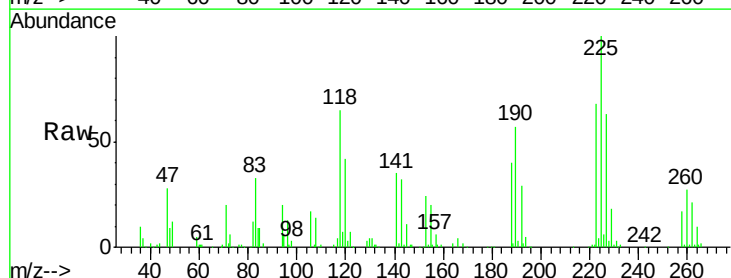
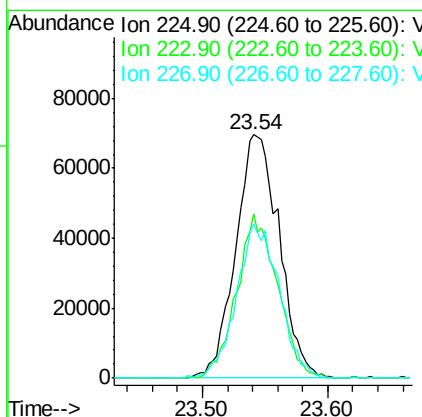
Manual Integrations
 APPROVED

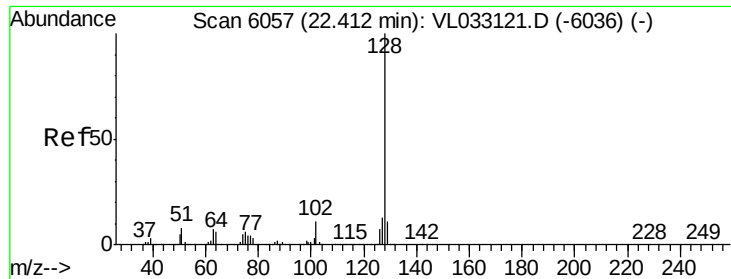
apatel
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.015 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.5	75.7
227	62.1	51.0	76.4





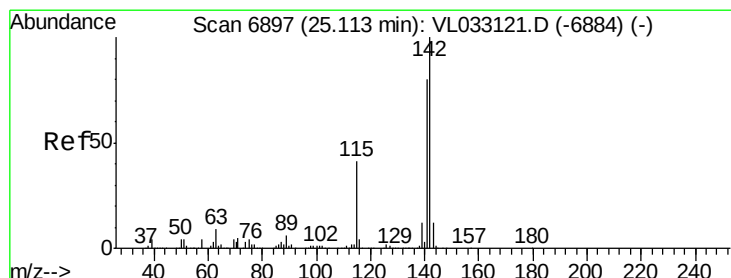
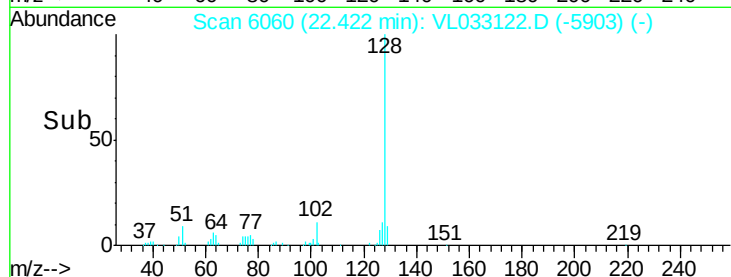
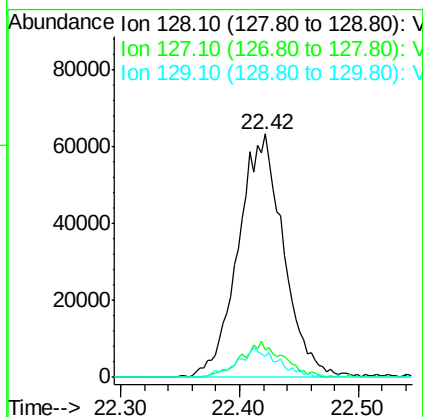
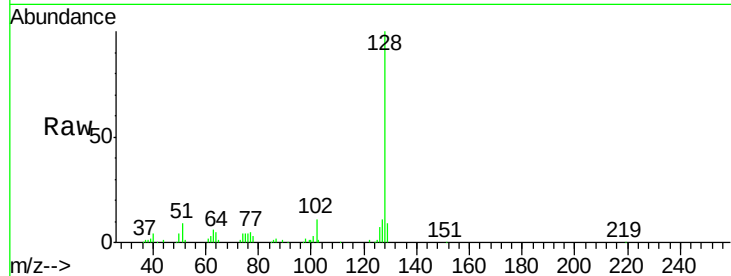
#79
Naphthalene
Concen: 0.481 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.01 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.6	15.8
129	8.7	9.2	13.8

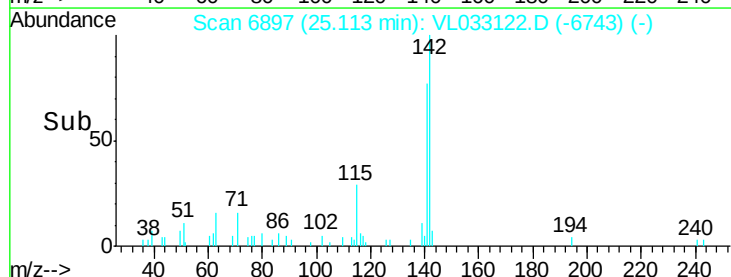
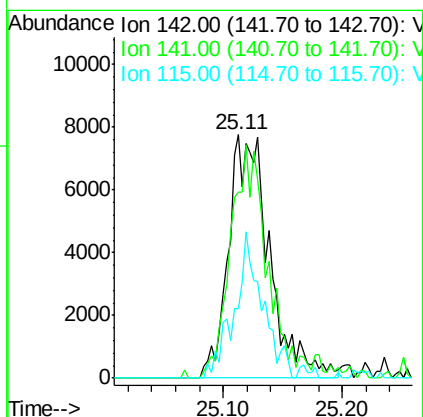
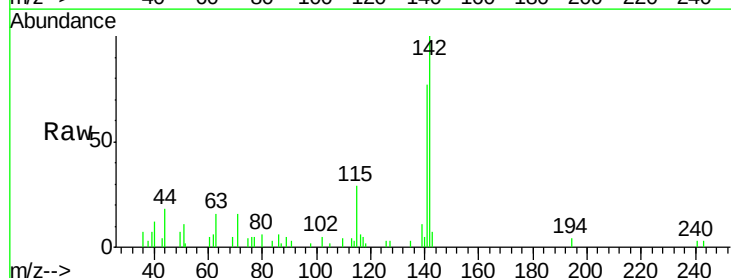
Manual Integrations
APPROVED

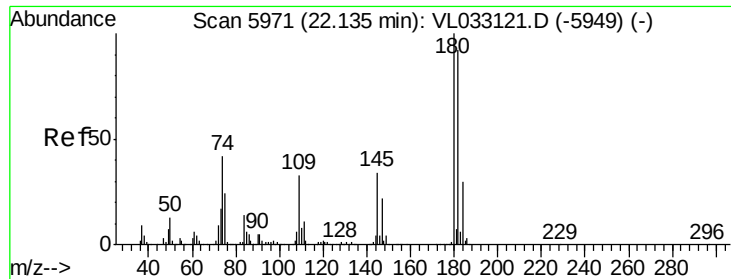
apatel
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#80
Naphthalene, 2-methyl-
Concen: 0.177 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	67.4	101.2
115	43.0	34.9	52.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.546 ppbv m
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	76.5	114.7
184	31.5	24.2	36.4

Manual Integrations
 APPROVED

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