

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033115.D
 Acq On : 28 Jan 2019 16:22
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
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 1/29/2019 2:35:59 PM

Quant Time: Jan 28 17:10:23 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	1137729	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3034163	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2906497	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2121752	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	601623	2.841	ppbv	97
3) Chlorodifluoromethane	3.01	51	332844	2.584	ppbv	99
4) Chloromethane	3.16	50	181338	2.458	ppbv	100
5) Vinyl Chloride	3.29	62	194929	2.617	ppbv	100
6) Bromomethane	3.51	94	120027	2.372	ppbv	97
7) Chloroethane	3.60	64	68035	2.335	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	483709	2.652	ppbv	98
9) Propene	3.03	41	128538	2.672	ppbv	98
10) Heptane	8.25	43	318905	2.328	ppbv	98
11) Trichlorofluoromethane	4.00	101	521907	2.231	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	352548	2.383	ppbv	99
13) Ethanol	3.65	45	47692m	2.486	ppbv	
14) Bromoethene	3.79	108	149729	2.291	ppbv	100
15) Acetone	3.90	43	351222	2.230	ppbv	95
16) 1,3-Butadiene	3.36	39	134828	2.270	ppbv	99
17) tert-Butyl alcohol	4.36	59	75196	2.254	ppbv	98
18) 1,1-Dichloroethene	4.35	96	161205	2.366	ppbv	97
19) Isopropyl Alcohol	4.03	45	226405	2.088	ppbv #	96
20) Methylene Chloride	4.41	84	168357	2.564	ppbv	98
21) Allyl Chloride	4.47	41	237507	2.434	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	152751	2.261	ppbv	95
23) Vinyl Acetate	5.15	43	476493	2.378	ppbv	99
24) 1,1-Dichloroethane	5.08	63	383325	2.254	ppbv	98
25) Ethyl Acetate	5.77	43	607772	2.283	ppbv	99
26) Hexane	5.78	57	299209	2.387	ppbv	97
27) Carbon Disulfide	4.62	76	379026	2.452	ppbv	96
28) Methyl tert-Butyl Ether	5.11	73	452616	2.314	ppbv	100
29) Chloroform	5.84	83	468668	2.194	ppbv	98
30) Cyclohexane	7.25	84	225657	2.415	ppbv	87
31) cis-1,2-Dichloroethene	5.63	61	260689	2.240	ppbv	92
32) 1,1,1-Trichloroethane	6.61	97	481102	2.219	ppbv	99
34) 2-Butanone	5.33	43	384594	2.182	ppbv	100
35) Carbon Tetrachloride	7.13	117	531729	2.040	ppbv	99
36) Benzene	7.00	78	554876	2.233	ppbv	95
37) 1,2-Dichloroethane	6.41	62	349881	2.016	ppbv	100
38) Trichloroethene	7.95	130	229263	2.242	ppbv	88
39) 1,2-Dichloropropane	7.73	63	200789	2.150	ppbv	94
40) 1,4-Dioxane	7.96	88	78722m	2.221	ppbv	
41) Tetrahydrofuran	6.15	42	196428	2.189	ppbv	99
42) Bromodichloromethane	7.91	83	506034	2.123	ppbv	92
43) Methyl Methacrylate	8.14	69	207972	2.230	ppbv	100

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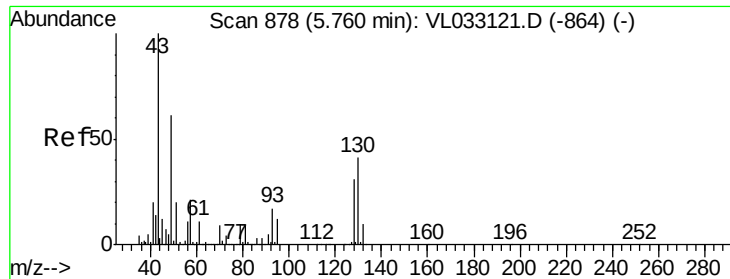
Manual Integrations
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Quant Time: Jan 28 17:10:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
 QLast Update : Mon Jan 28 16:32:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	948641	2.254	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	246275	2.121	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	300342	2.267	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	234512	2.150	ppbv	97
48) Dibromochloromethane	10.45	129	421524	2.187	ppbv	97
49) Bromoform	13.20	173	362824m	2.155	ppbv	
50) 4-Methyl-2-Pentanone	8.87	43	521162	2.333	ppbv	99
51) 2-Hexanone	10.27	43	364161	2.253	ppbv #	97
52) Tetrachloroethene	11.37	164	193510	2.203	ppbv	97
53) Toluene	9.94	91	607452	2.281	ppbv	98
54) 1,2-Dibromoethane	10.76	107	336294	2.140	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	319912	2.130	ppbv #	1
57) Chlorobenzene	12.30	112	509830	2.102	ppbv	97
58) Ethyl Benzene	12.86	91	816925	2.226	ppbv	98
59) m/p-Xylene	13.12	91	1513576m	4.459	ppbv	
60) o-Xylene	13.85	91	724477	2.180	ppbv	97
61) Styrene	13.68	104	476002	2.245	ppbv	98
62) Isopropylbenzene	14.83	105	1026995	2.171	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	519937	2.106	ppbv	99
64) n-propylbenzene	15.72	120	256060	2.131	ppbv	94
65) tert-Butylbenzene	16.90	119	904676m	2.159	ppbv	
66) Benzyl Chloride	17.15	91	469579	1.967	ppbv	100
67) sec-Butylbenzene	17.46	105	1284888	2.143	ppbv	99
69) p-Isopropyltoluene	17.81	119	1046609	2.151	ppbv	99
70) n-Butylbenzene	18.71	91	1021073	2.087	ppbv	97
71) 2-Chlorotoluene	15.62	91	733130	2.186	ppbv	98
72) 4-Ethyltoluene	16.00	105	782550	2.143	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	753203	2.090	ppbv	96
74) 1,2,4-Trimethylbenzene	16.92	105	813328	2.038	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	466785	1.987	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	431373	2.016	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	437241	2.067	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	234205	1.441	ppbv	99
79) Naphthalene	22.41	128	517503m	1.539	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	109080	1.069	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	253440	1.561	ppbv	100

(#) = 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: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1137729

Ion Ratio Lower Upper

49 100

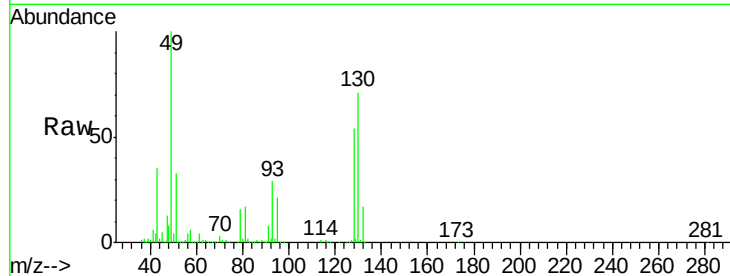
128 53.8 25.9 77.7

130 68.6 32.9 98.7

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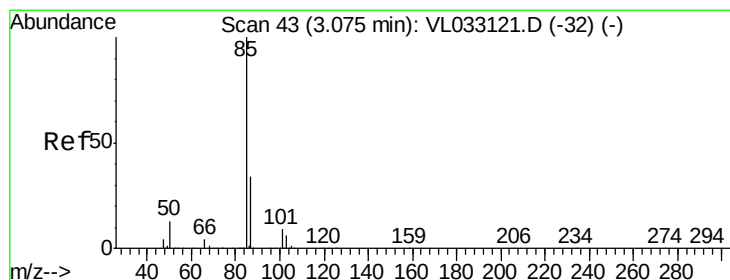
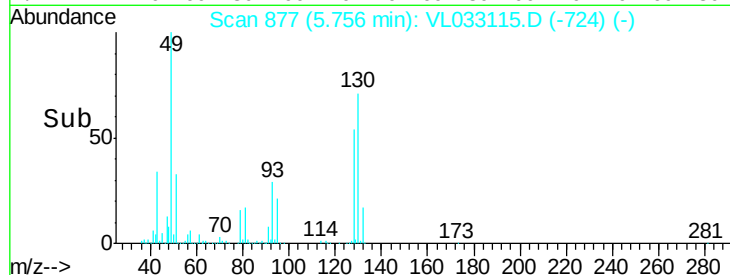
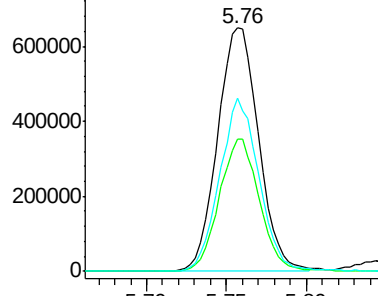
1/29/2019 2:35:59 PM



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: 2.841 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033115.D

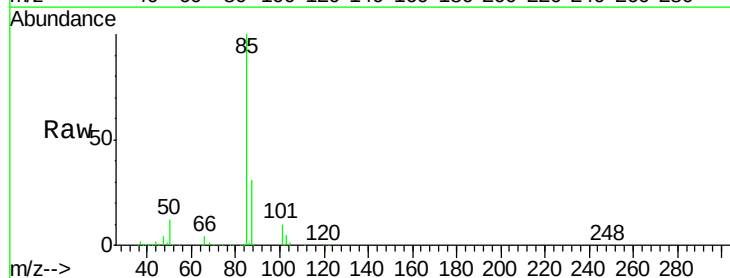
Acq: 28 Jan 2019 16:22

Tgt Ion: 85 Resp: 601623

Ion Ratio Lower Upper

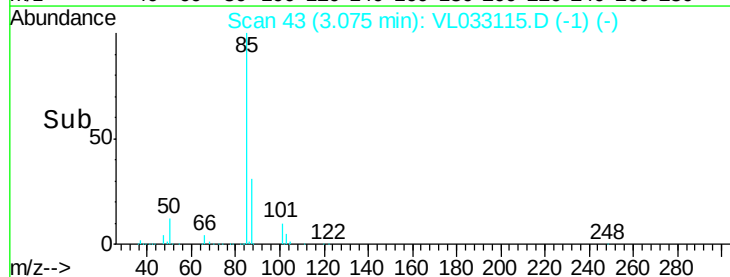
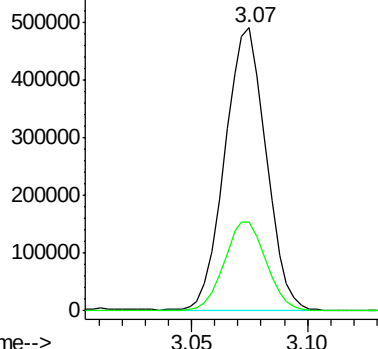
85 100

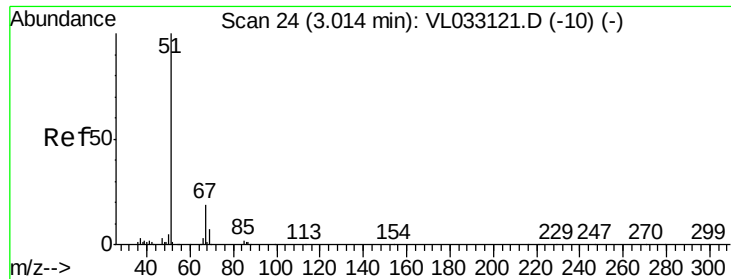
87 31.4 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.584 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 332844

Ion Ratio Lower Upper

51 100

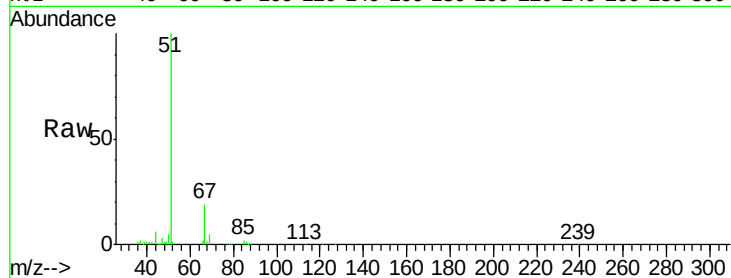
67 19.7 16.2 24.2

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

300000

250000

200000

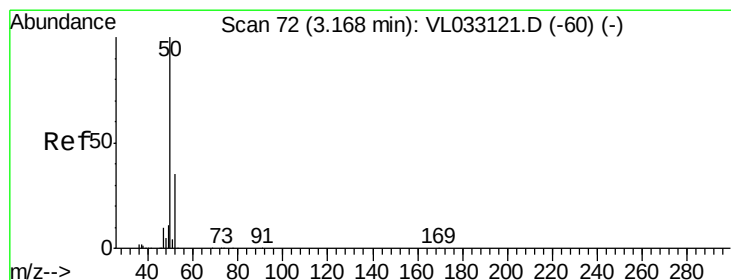
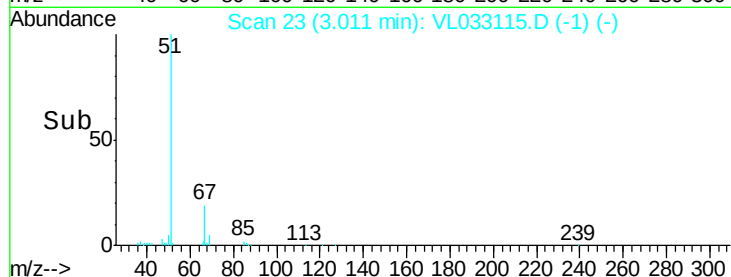
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 2.458 ppbv

RT: 3.16 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL033115.D

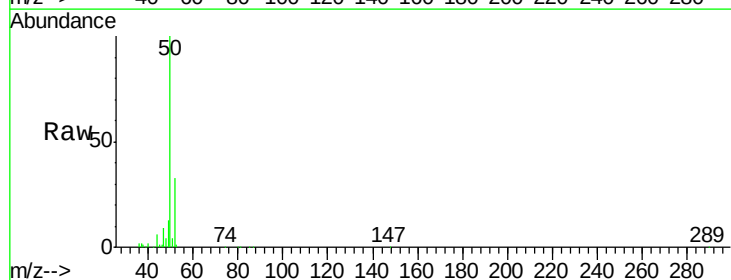
Acq: 28 Jan 2019 16:22

Tgt Ion: 50 Resp: 181338

Ion Ratio Lower Upper

50 100

52 33.9 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

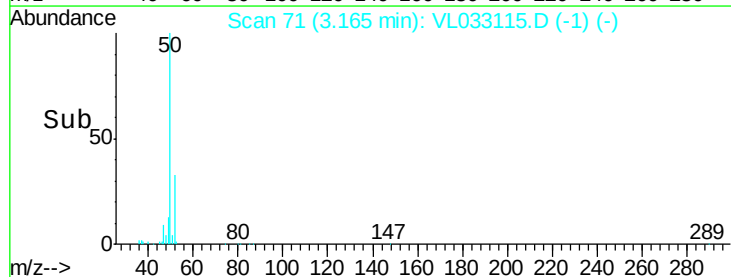
150000

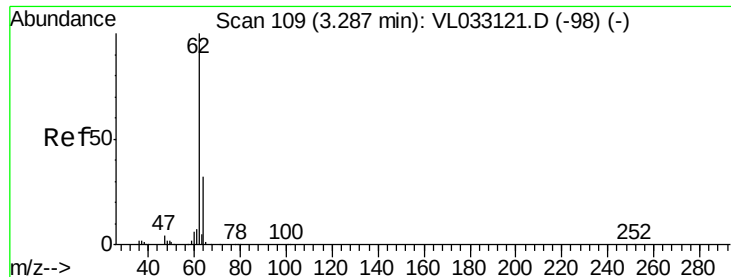
100000

50000

0

Time-->





#5

Vinyl Chloride

Concen: 2.617 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 194929

Ion Ratio Lower Upper

62 100

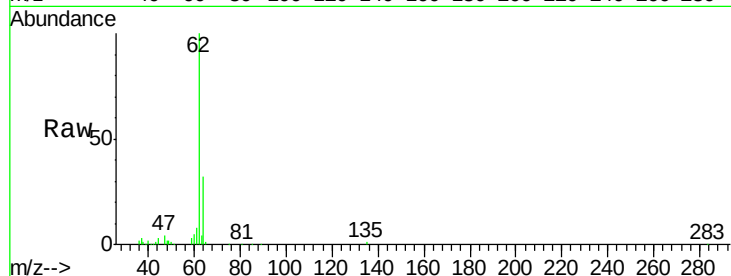
64 31.9 25.7 38.5

Manual Integrations

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1/29/2019 2:35:59 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

150000

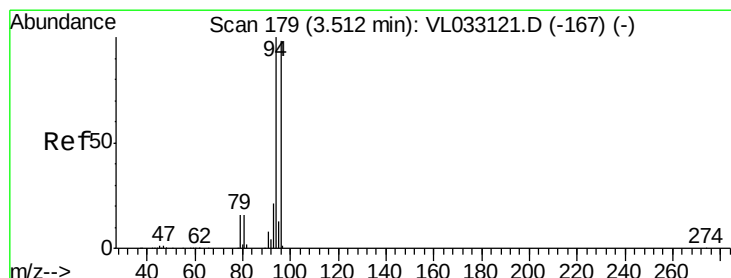
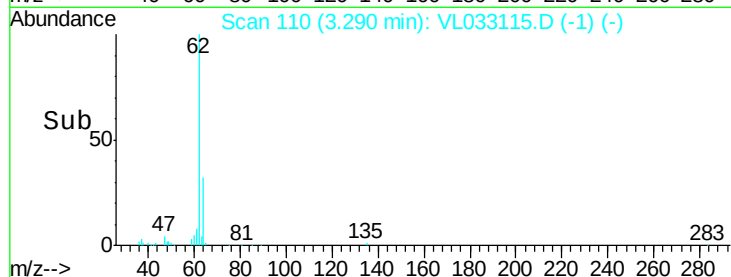
100000

50000

0

3.25 3.30

Time-->



#6

Bromomethane

Concen: 2.372 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033115.D

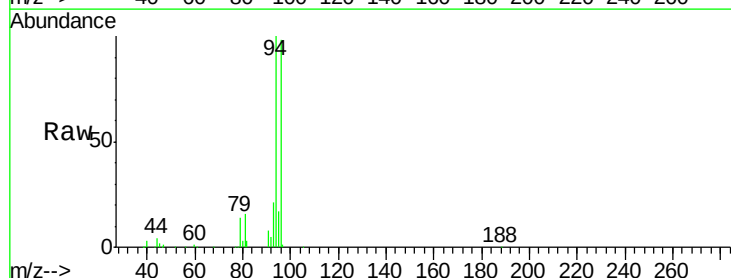
Acq: 28 Jan 2019 16:22

Tgt Ion: 94 Resp: 120027

Ion Ratio Lower Upper

94 100

96 97.6 75.4 113.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

100000

80000

60000

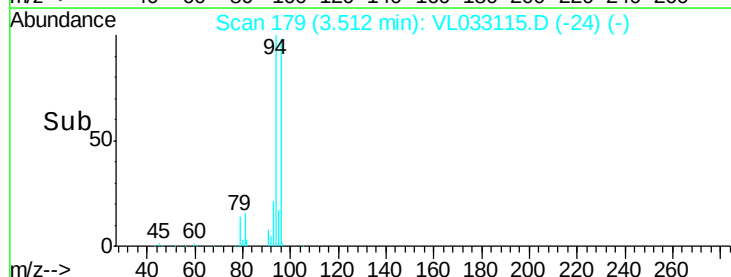
40000

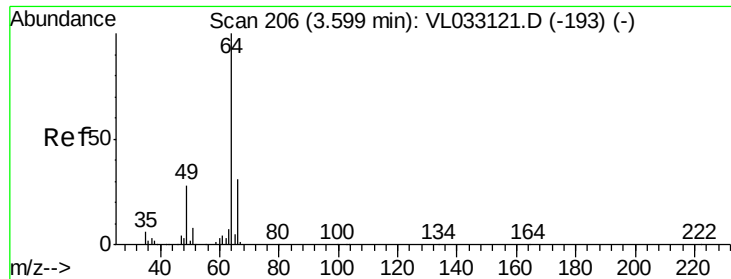
20000

0

3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 2.335 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 68035

Ion Ratio Lower Upper

64 100

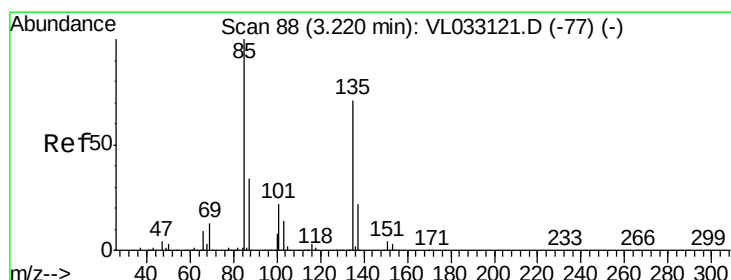
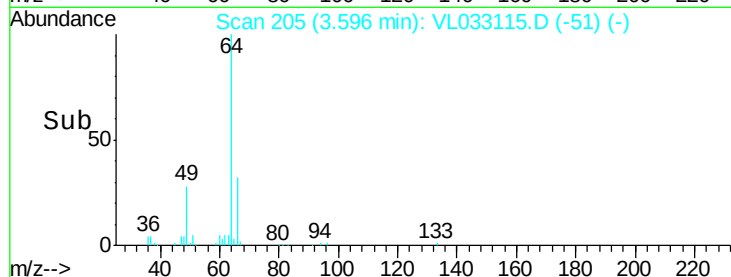
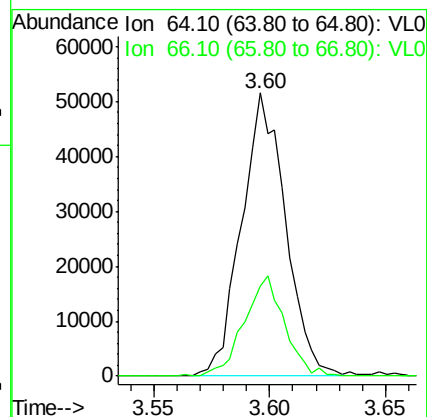
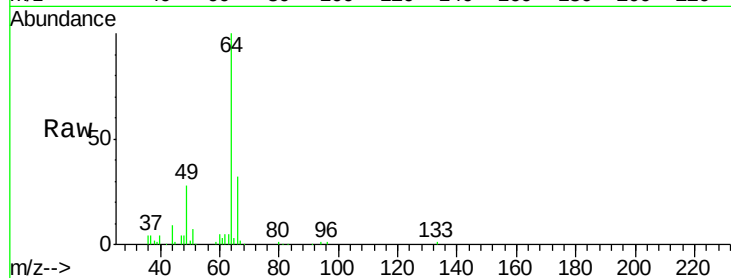
66 33.7 24.0 36.0

Manual Integrations

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1/29/2019 2:35:59 PM



#8

Dichlorotetrafluoroethane

Concen: 2.652 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033115.D

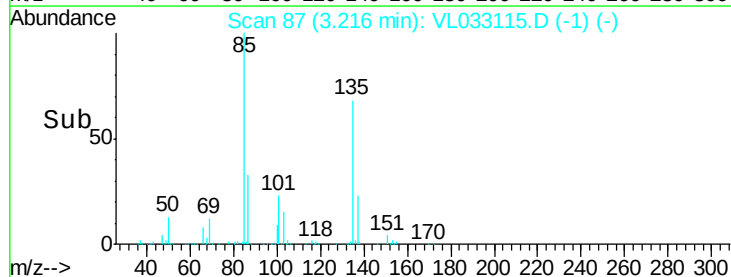
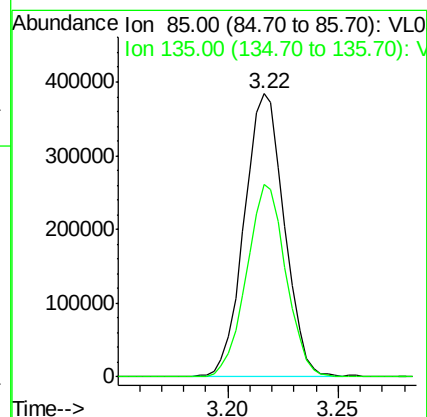
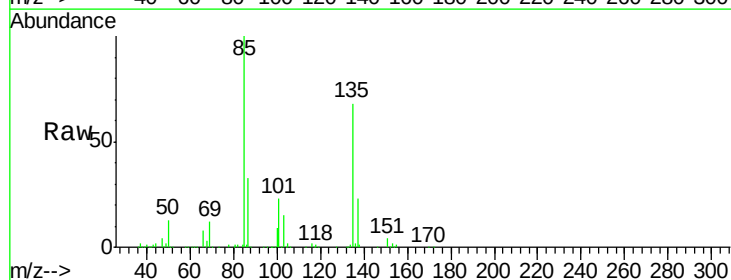
Acq: 28 Jan 2019 16:22

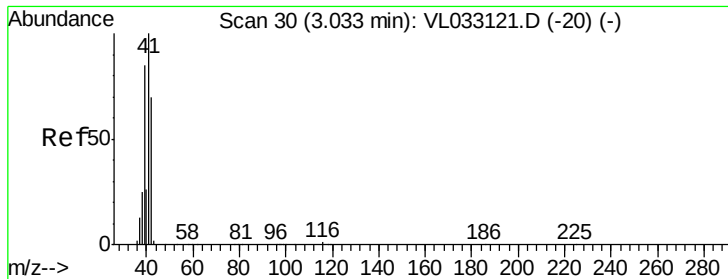
Tgt Ion: 85 Resp: 483709

Ion Ratio Lower Upper

85 100

135 67.0 54.8 82.2





#9

Propene

Concen: 2.672 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 41 Resp: 128538

Ion Ratio Lower Upper

41 100

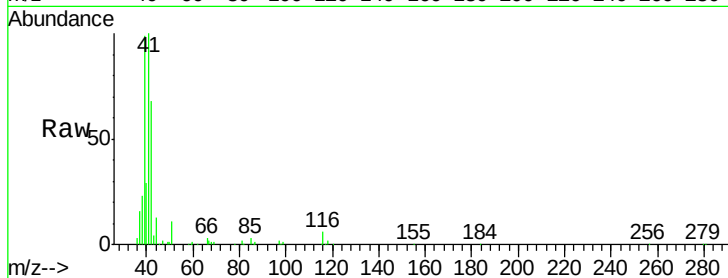
42 69.7 54.6 82.0

Manual Integrations

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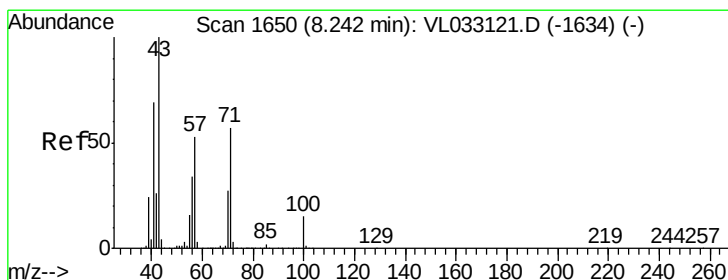
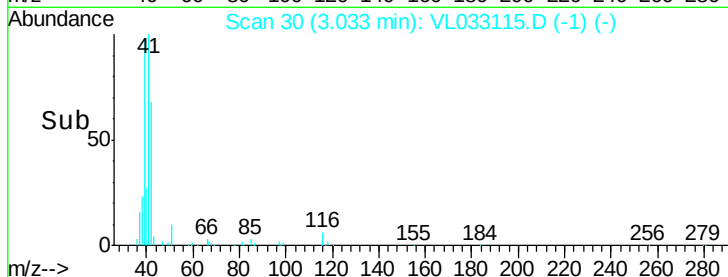
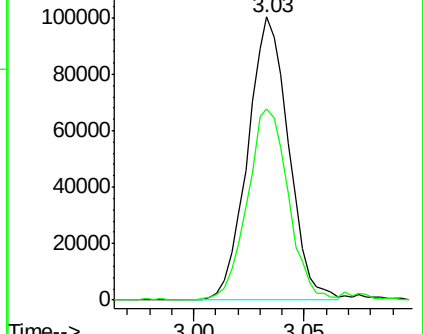
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1/29/2019 2:35:59 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.328 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033115.D

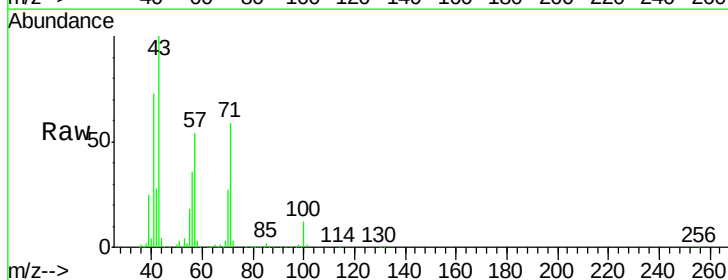
Acq: 28 Jan 2019 16:22

Tgt Ion: 43 Resp: 318905

Ion Ratio Lower Upper

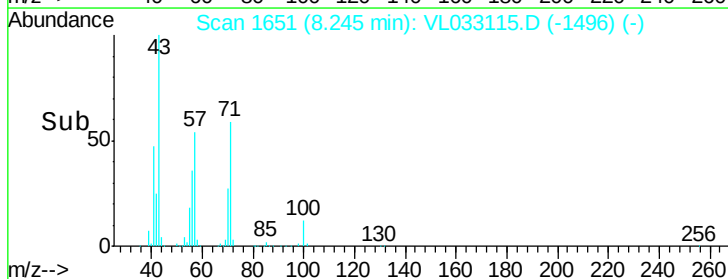
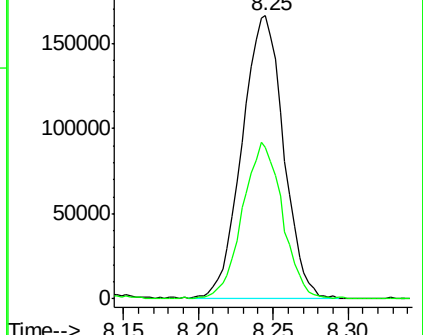
43 100

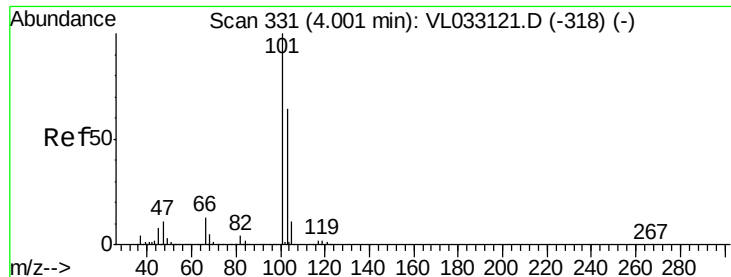
57 53.9 42.2 63.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





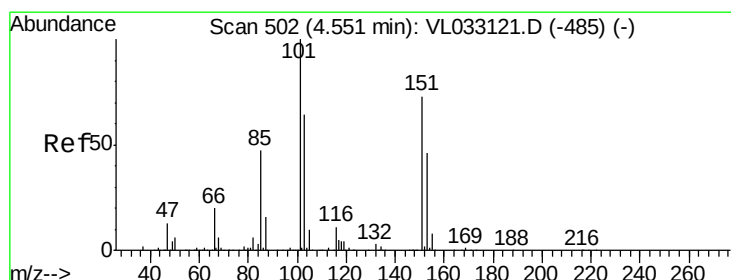
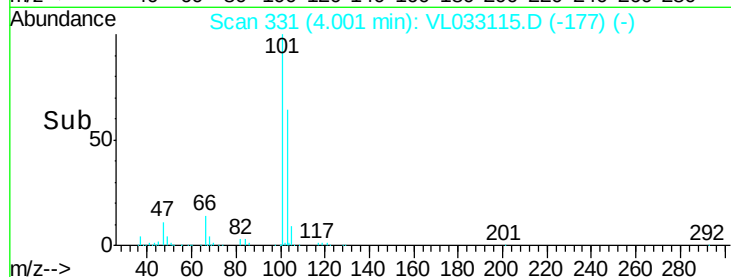
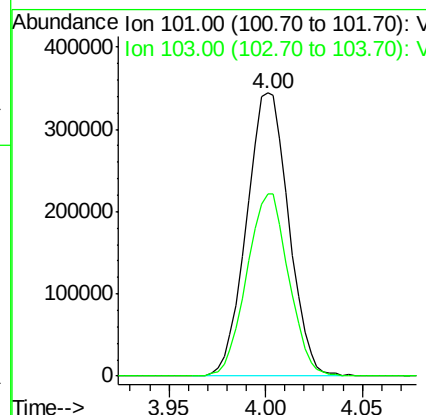
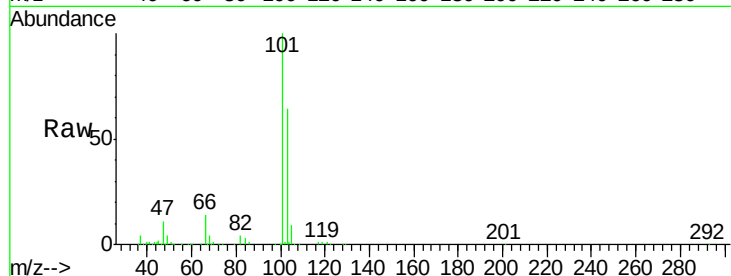
#11
 Trichlorofluoromethane
 Concen: 2.231 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	49.4	74.0

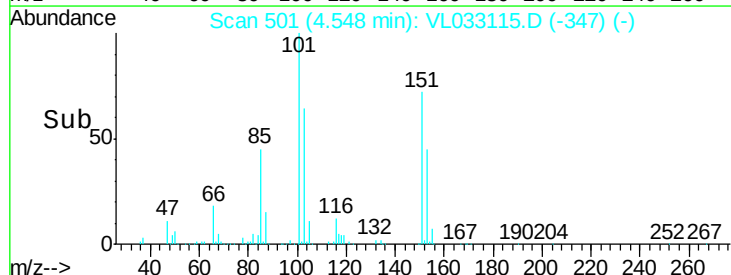
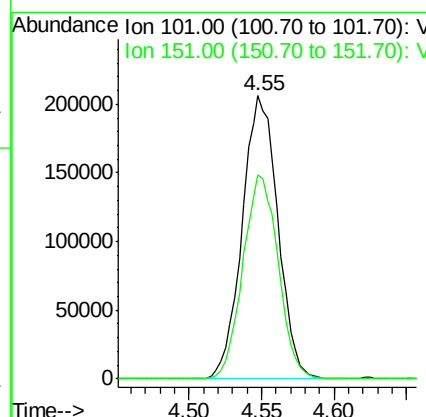
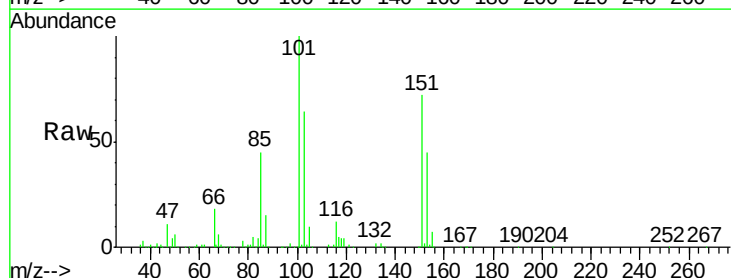
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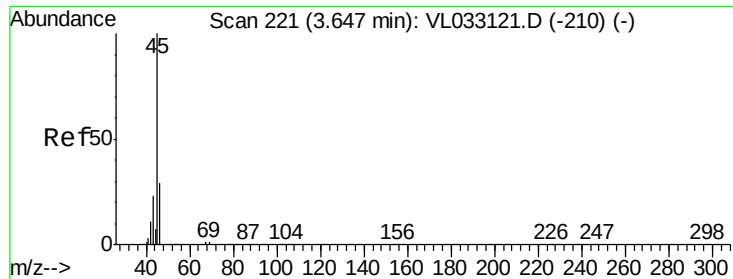
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.383 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.5	57.9	86.9





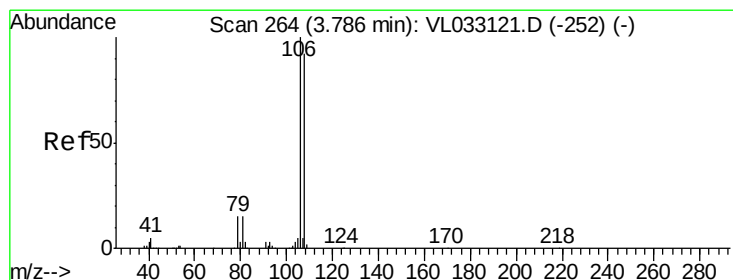
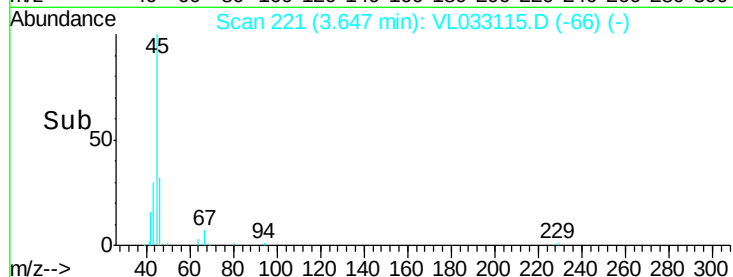
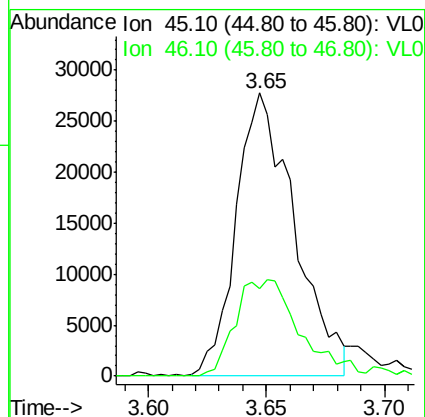
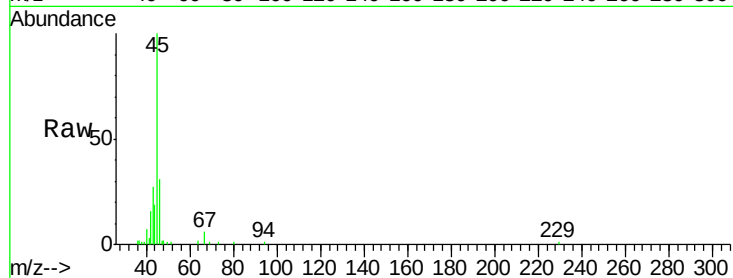
#13
Ethanol
Concen: 2.486 ppbv m
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	45	Resp	47692
Ion Ratio	100	Lower	Upper
46	39.3	15.0	60.2

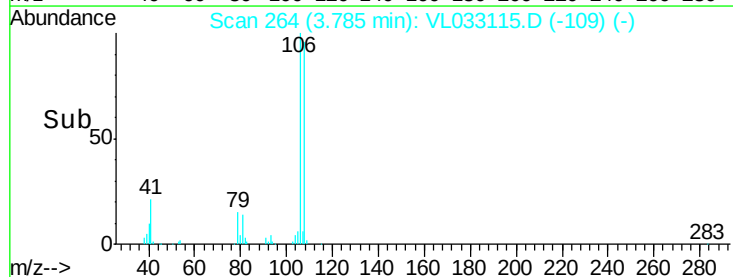
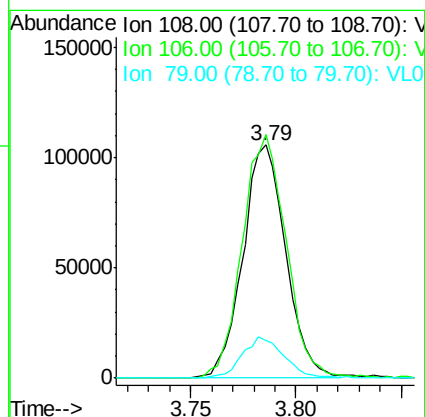
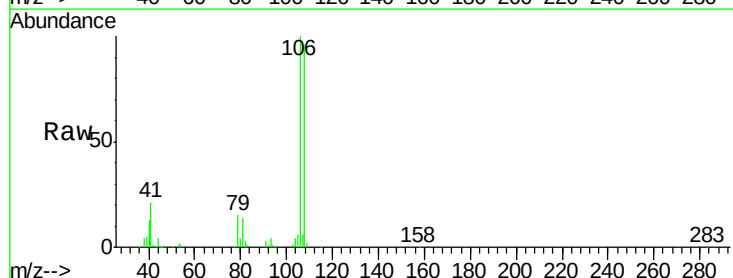
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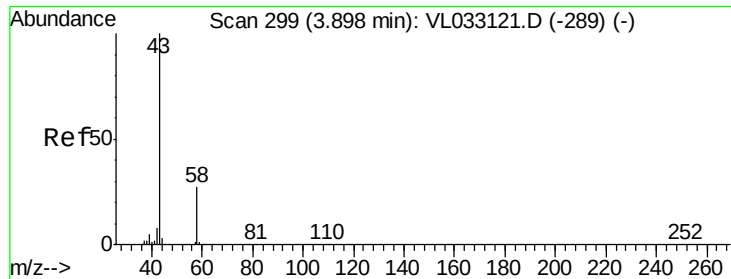
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#14
Bromoethene
Concen: 2.291 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	108	Resp	149729
Ion Ratio	100	Lower	Upper
106	107.3	85.5	128.3
79	17.6	13.8	20.6





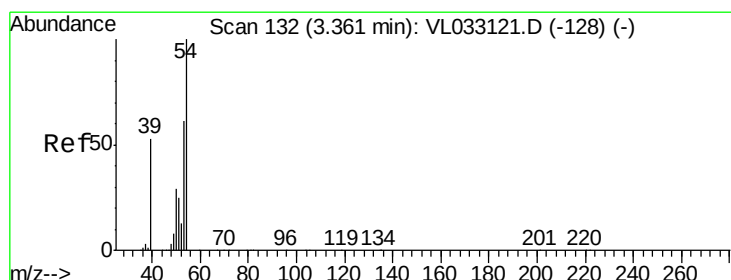
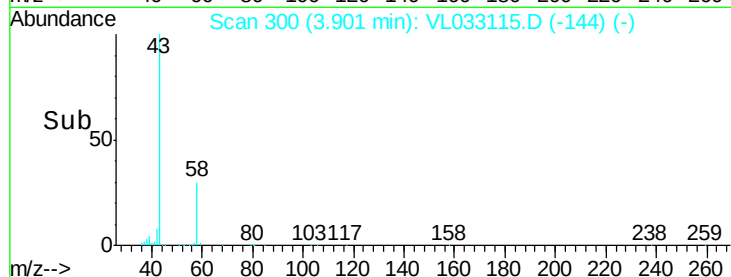
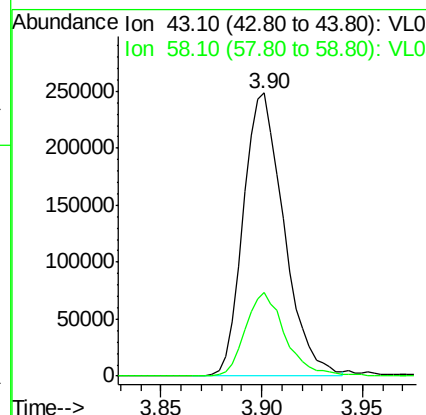
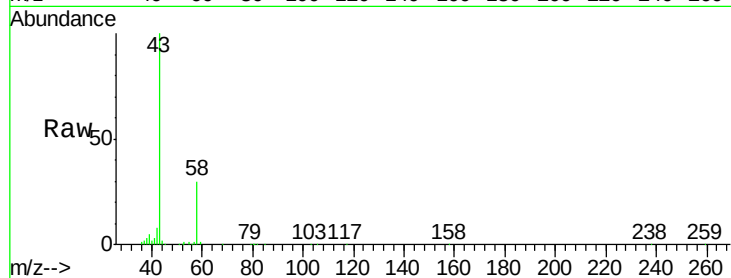
#15
Acetone
Concen: 2.230 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	29.1	21.1	31.7

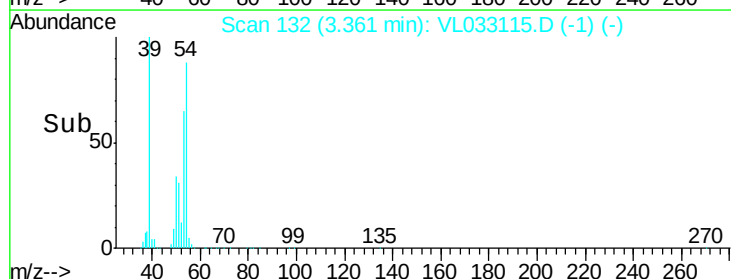
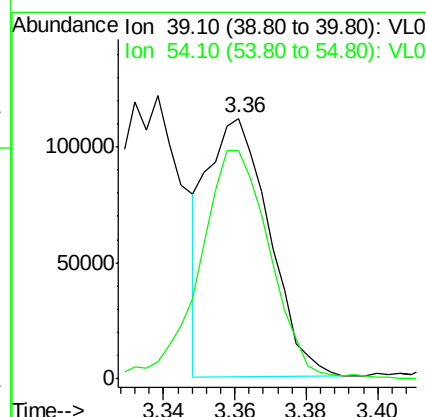
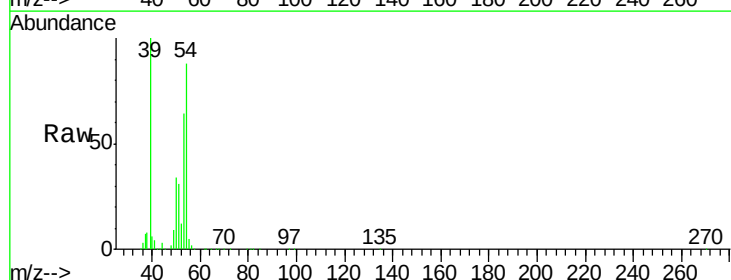
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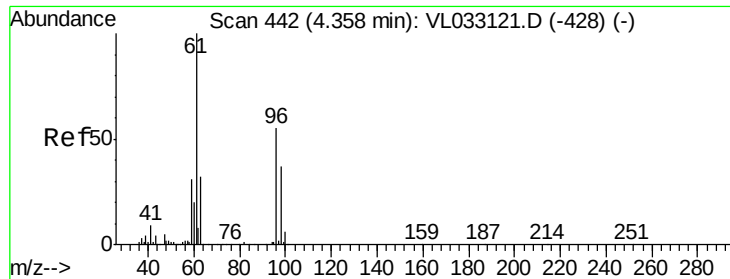
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#16
1,3-Butadiene
Concen: 2.270 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
39	100		
54	100.7	80.0	120.0





#17

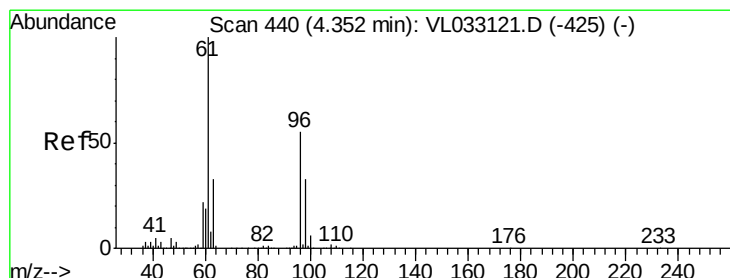
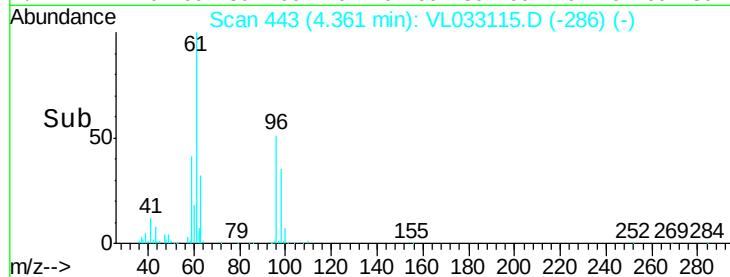
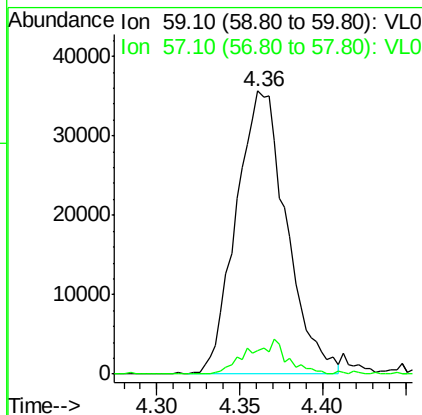
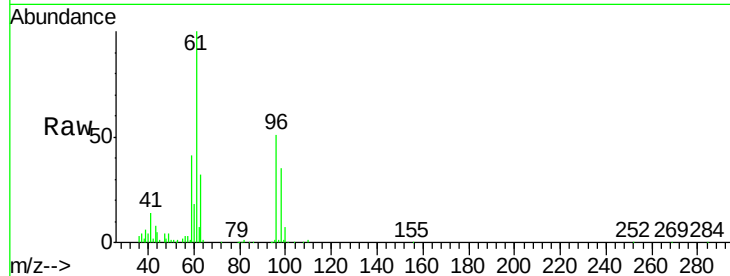
tert-Butyl alcohol
Concen: 2.254 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.01 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	7.4	11.2

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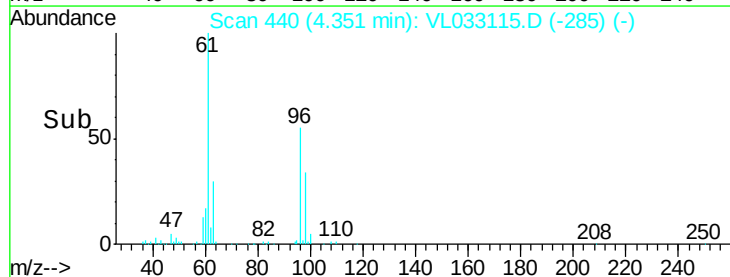
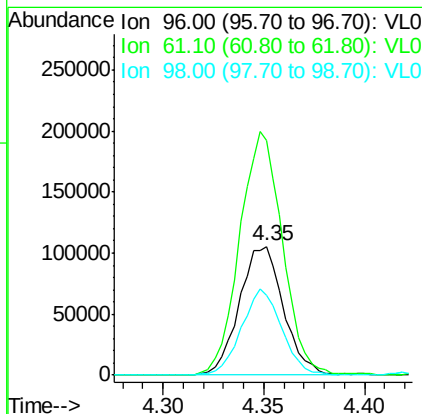
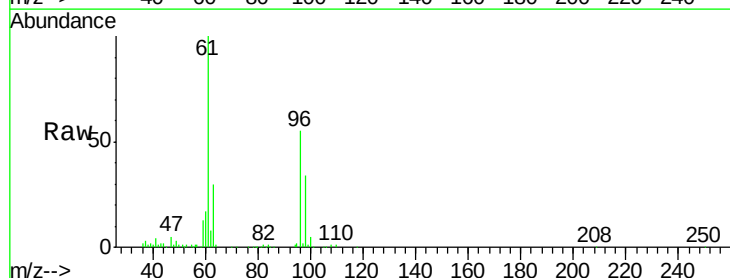
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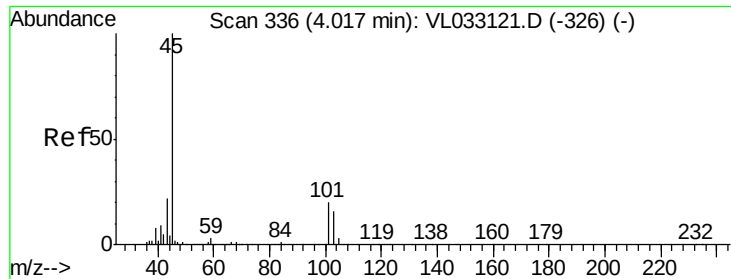


#18

1,1-Dichloroethene
Concen: 2.366 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	182.4	142.6	213.8
98	61.7	51.4	77.0





#19

Isopropyl Alcohol

Concen: 2.088 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 226405

Ion Ratio Lower Upper

45 100

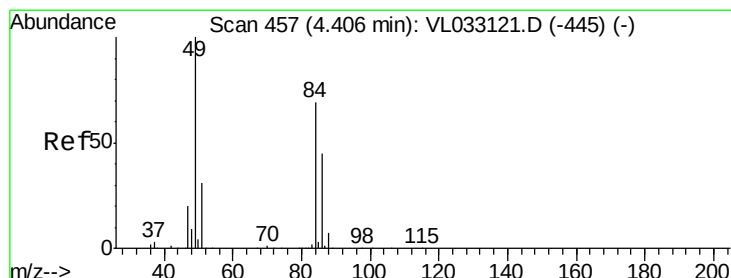
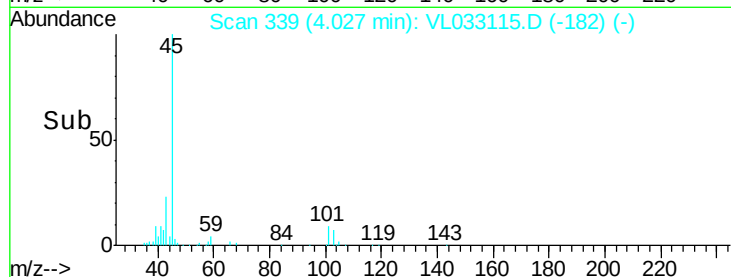
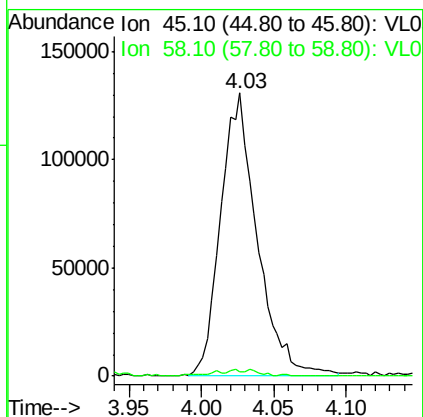
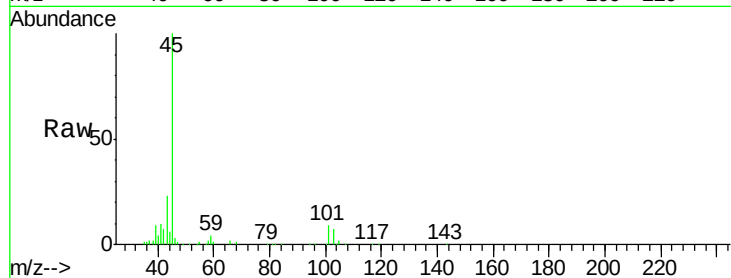
58 3.2 1.4 2.2#

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#20

Methylene Chloride

Concen: 2.564 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion: 84 Resp: 168357

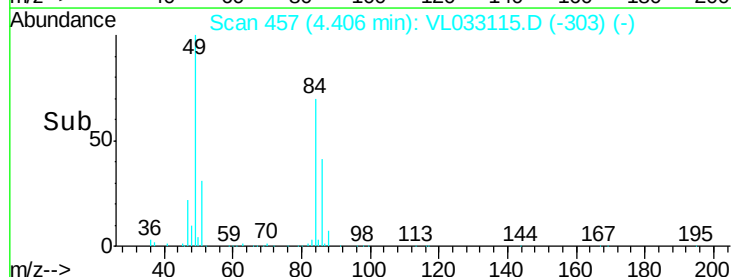
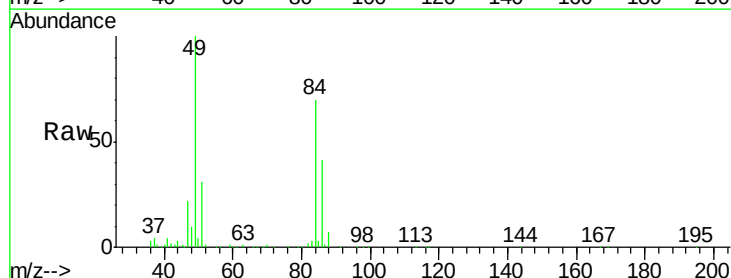
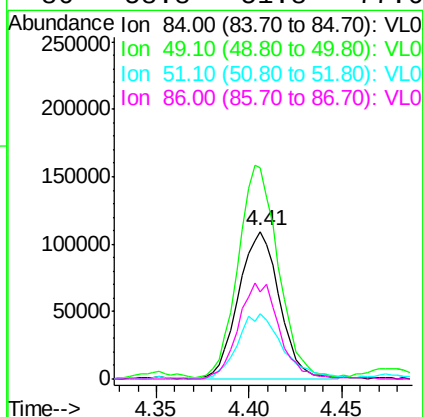
Ion Ratio Lower Upper

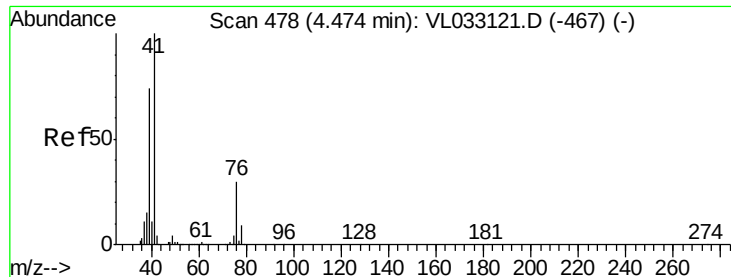
84 100

49 141.5 113.8 170.6

51 43.6 34.5 51.7

86 58.8 51.8 77.6





#21

Allvl Chloride

Concen: 2.434 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

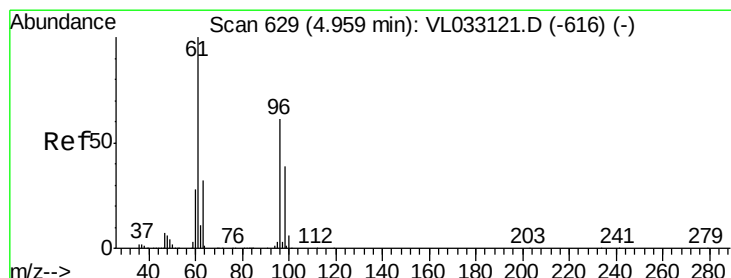
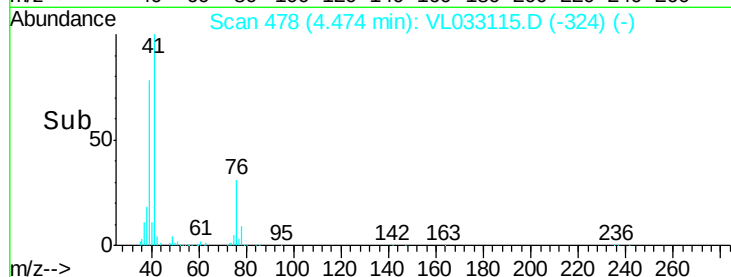
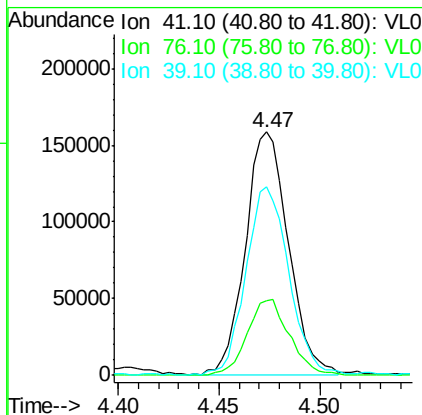
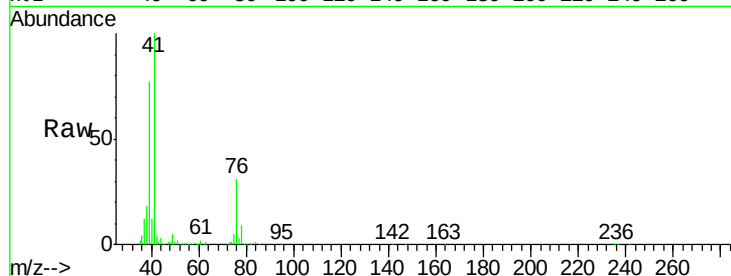
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	237507
Ion	Ratio	Lower	Upper
41	100		
76	30.9	24.6	37.0
39	78.0	63.3	94.9

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#22

trans-1,2-Dichloroethene

Concen: 2.261 ppbv

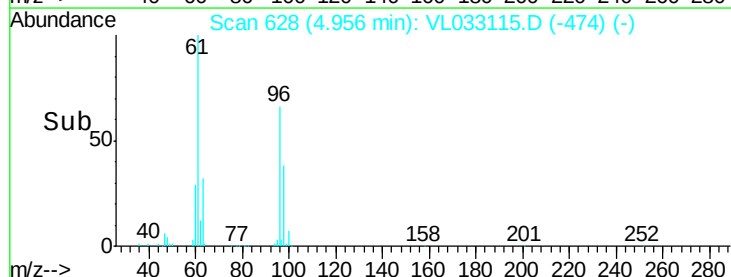
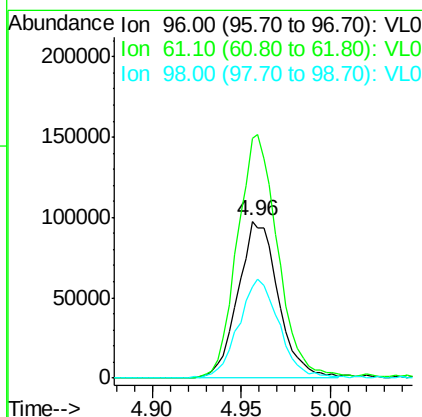
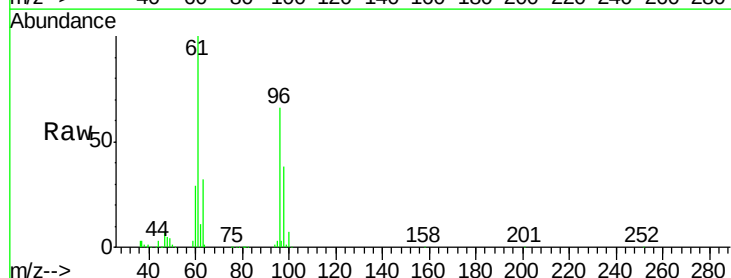
RT: 4.96 min Scan# 628

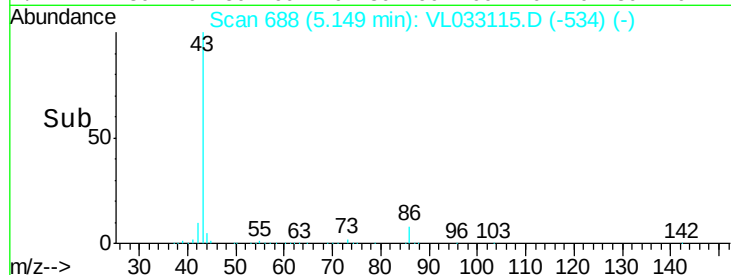
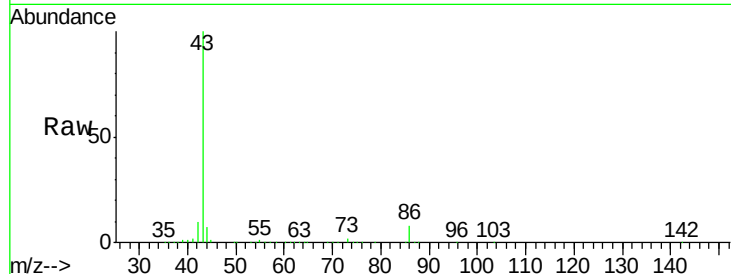
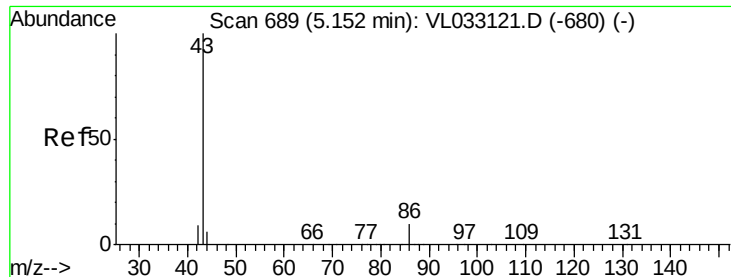
Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion:	96	Resp:	152751
Ion	Ratio	Lower	Upper
96	100		
61	152.8	127.6	191.4
98	57.9	48.6	73.0





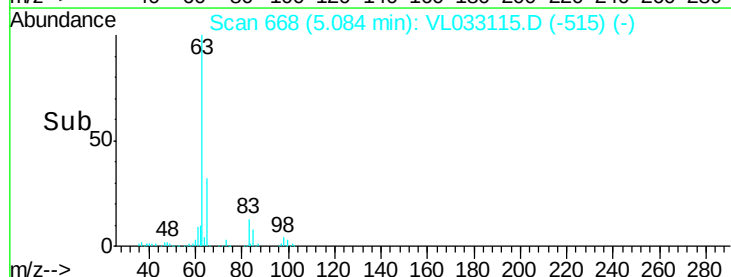
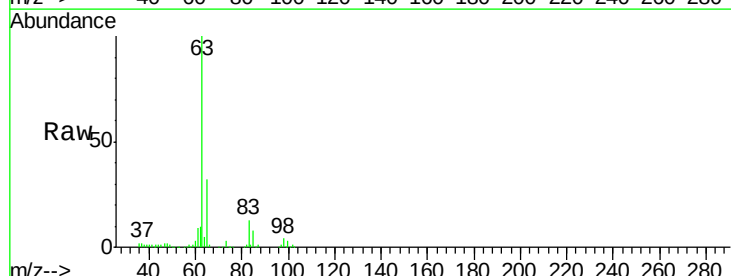
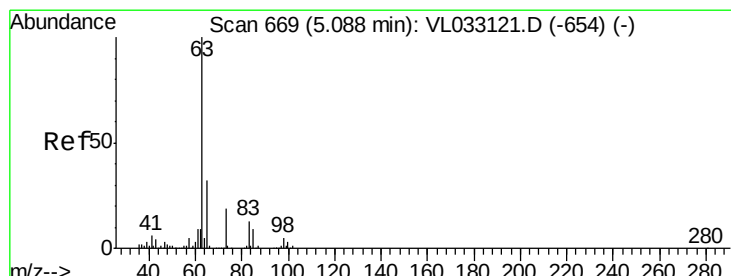
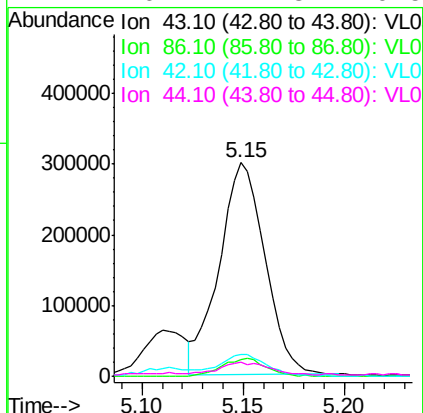
#23
 Vinyl Acetate
 Concen: 2.378 ppbv
 RT: 5.15 min Scan# 688
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Tot Ion	43	Resp	476493
Ion Ratio	Lower	Upper	
43	100		
86	7.8	6.7	10.1
42	10.2	8.1	12.1
44	6.2	4.3	6.5

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

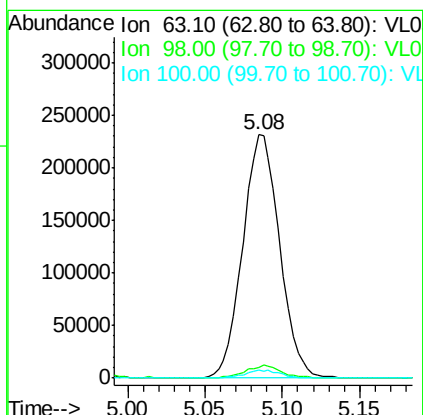
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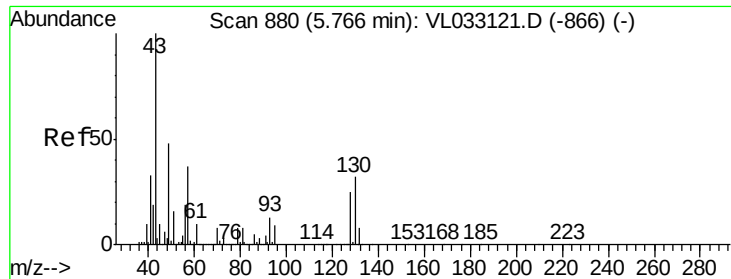
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#24
 1,1-Dichloroethane
 Concen: 2.254 ppbv
 RT: 5.08 min Scan# 668
 Delta R.T. -0.01 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Tgt Ion	63	Resp	383325
Ion Ratio	Lower	Upper	
63	100		
98	4.1	2.5	7.4
100	3.4	1.4	4.2





#25

Ethyl Acetate

Concen: 2.283 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

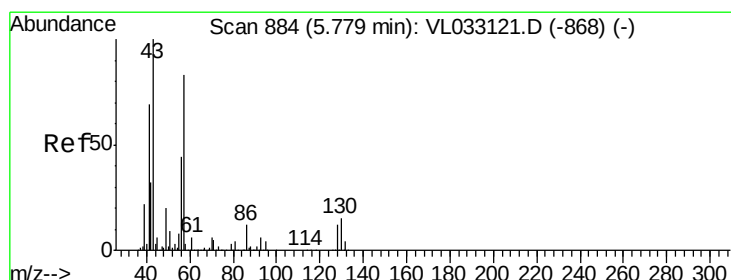
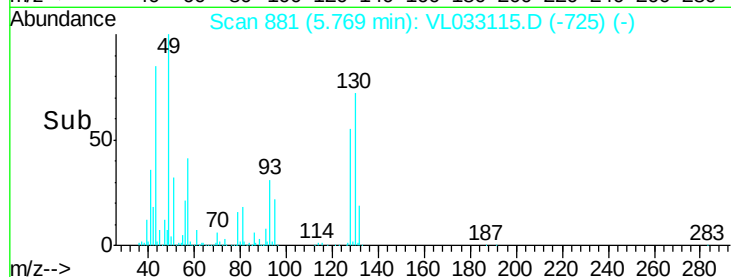
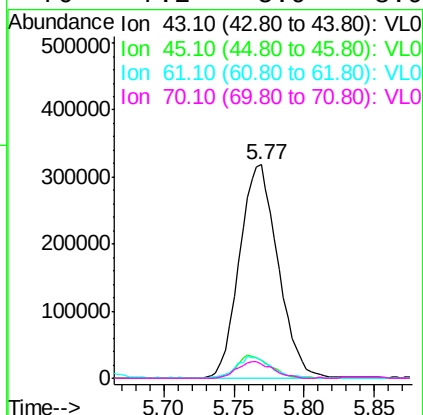
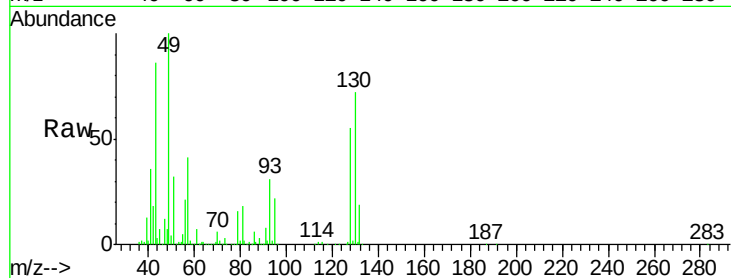
ClientSampleId :

VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.3	8.0	12.0	
61	9.0	7.6	11.4	
70	7.2	5.9	8.9	

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#26

Hexane

Concen: 2.387 ppbv

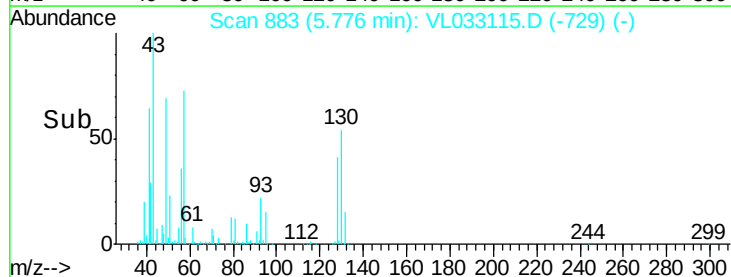
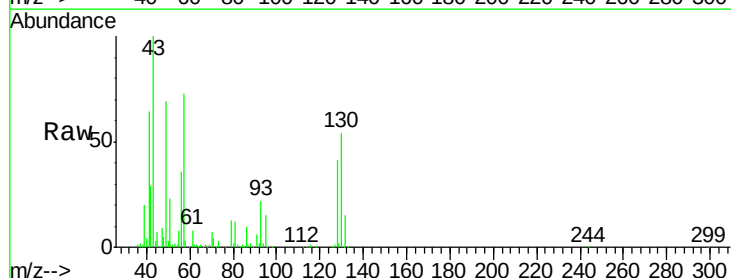
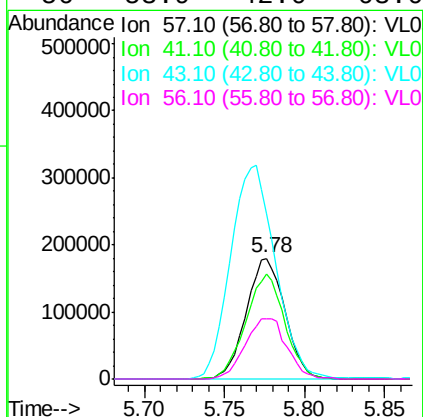
RT: 5.78 min Scan# 883

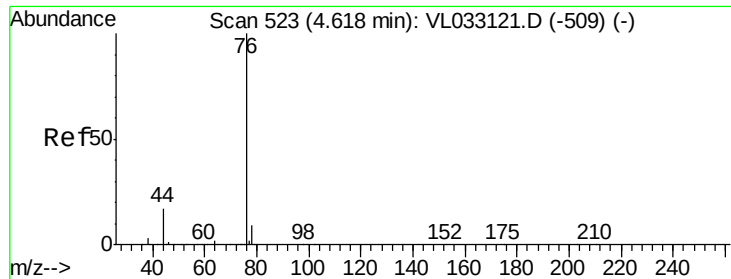
Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	87.7	69.9	104.9	
43	204.6	169.0	253.4	
56	53.9	42.0	63.0	





#27

Carbon Disulfide

Concen: 2.452 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

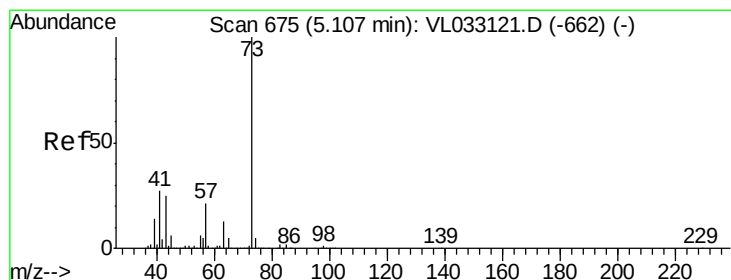
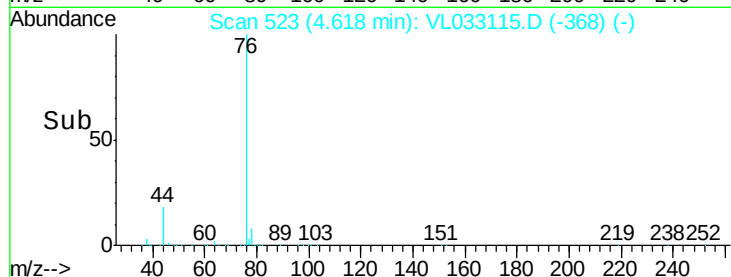
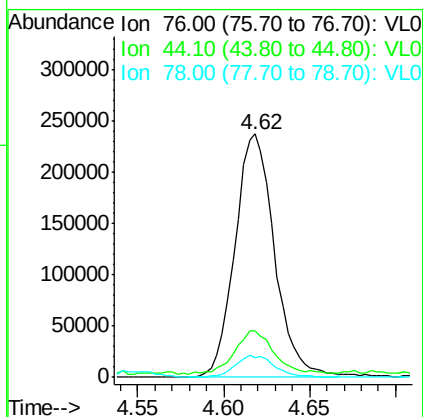
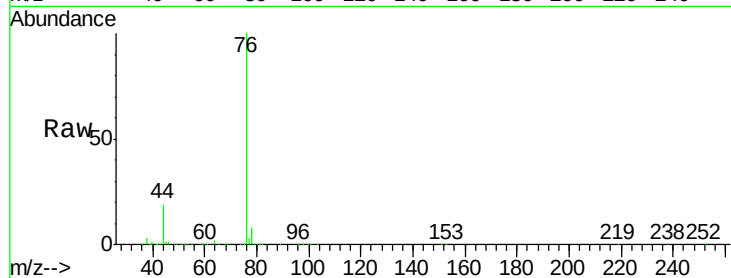
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	379026
Ion	Ratio	Lower	Upper
76	100		
44	20.9	15.0	22.4
78	9.1	7.6	11.4

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#28

Methyl tert-Butyl Ether

Concen: 2.314 ppbv

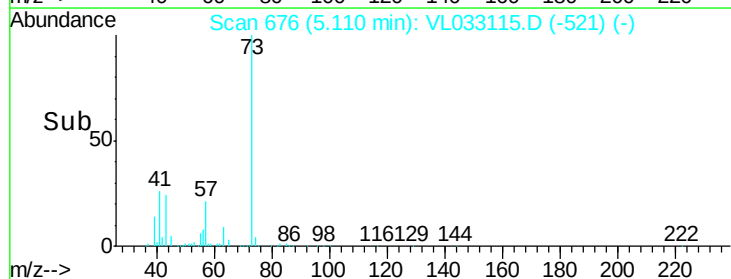
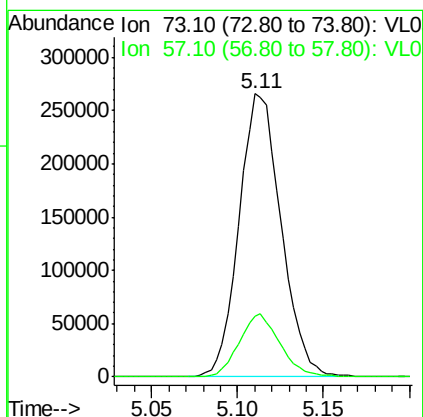
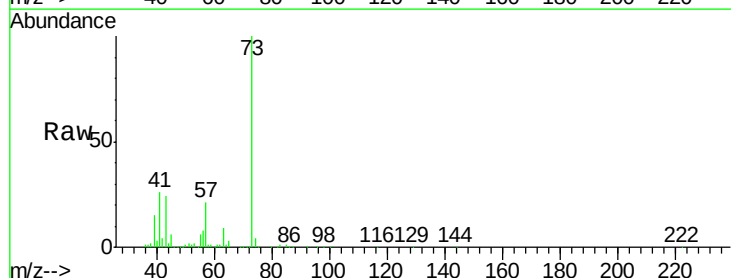
RT: 5.11 min Scan# 676

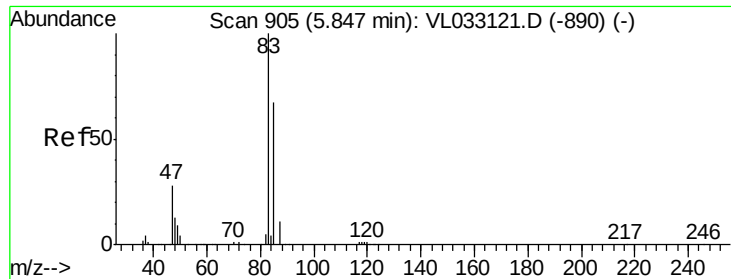
Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion:	73	Resp:	452616
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.6	26.4





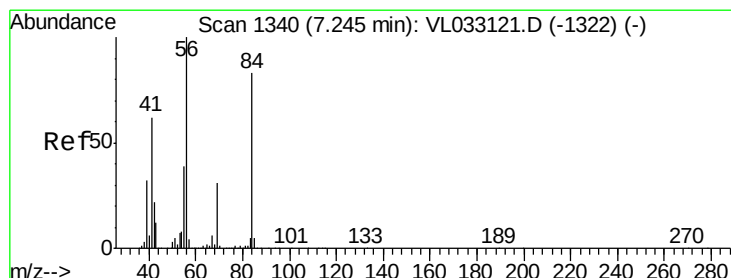
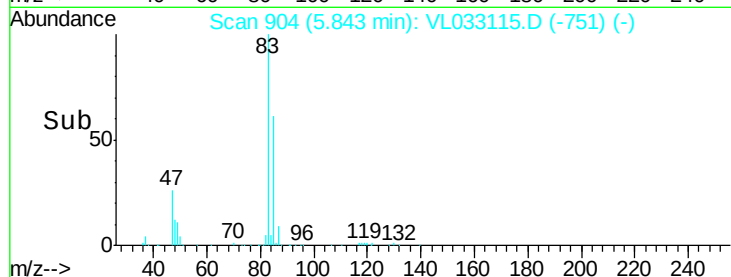
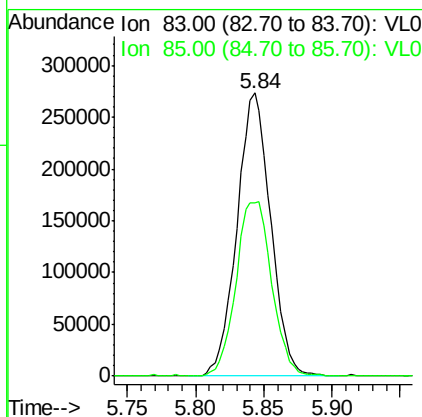
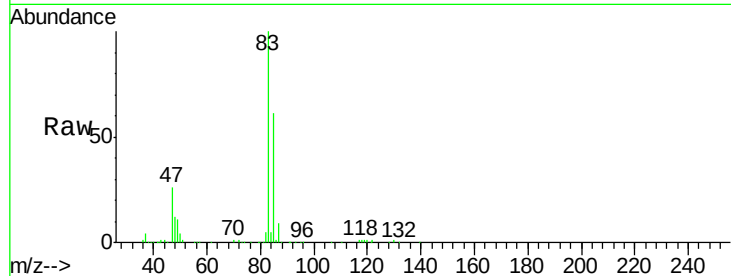
#29
Chloroform
Concen: 2.194 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	468668
Ion Ratio	100	Lower	Upper
83	100		
85	61.1	50.4	75.6

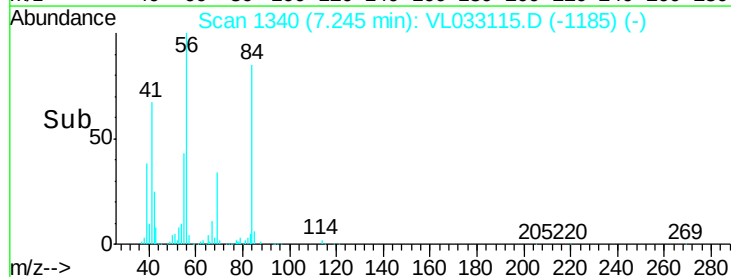
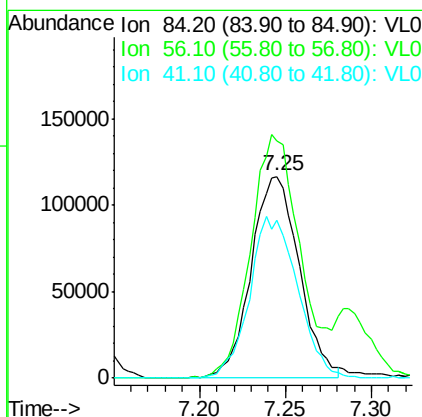
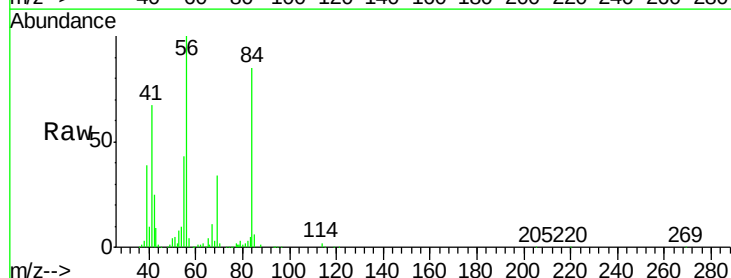
Manual Integrations
APPROVED

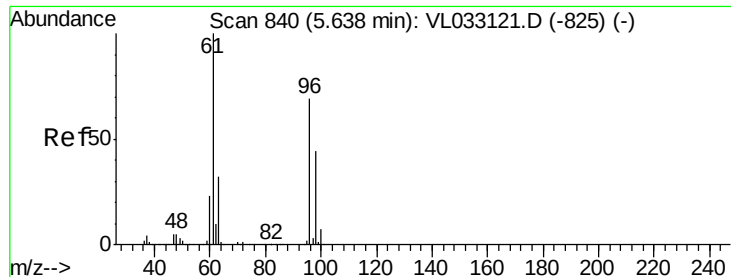
apatel
1/29/2019 2:35:59 PM



#30
Cyclohexane
Concen: 2.415 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	84	Resp	225657
Ion Ratio	100	Lower	Upper
84	100		
56	149.8	102.4	153.6
41	80.6	62.7	94.1





#31

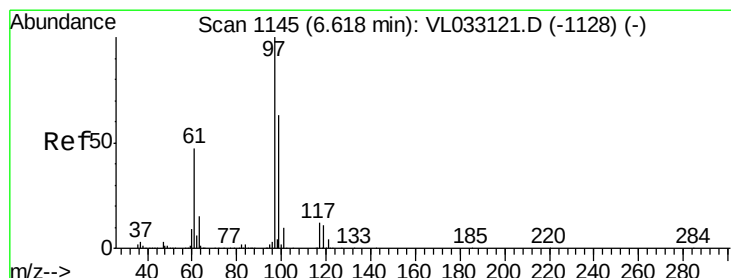
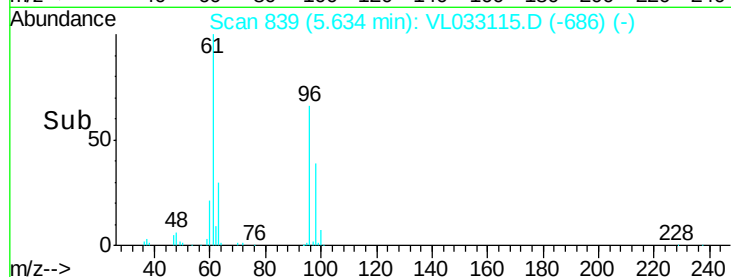
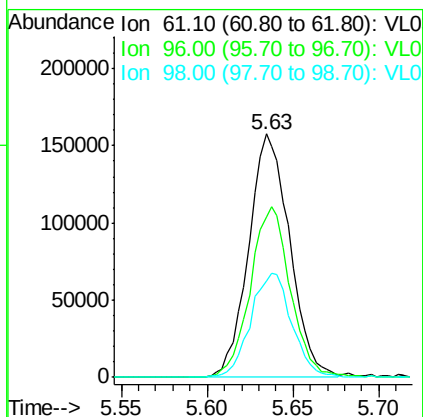
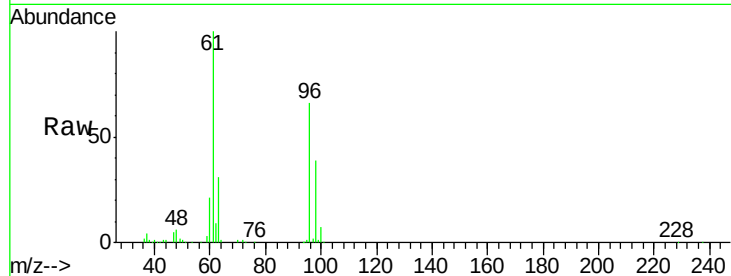
cis-1,2-Dichloroethene
Concen: 2.240 ppbv
RT: 5.63 min Scan# 839
Delta R.T. -0.01 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
61	100	260689		
96	66.1		57.6	86.4
98	39.3		37.0	55.4

Manual Integrations
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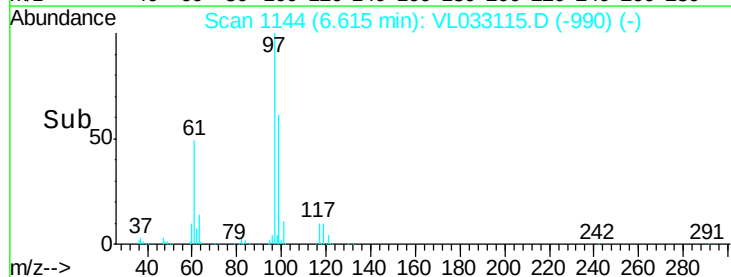
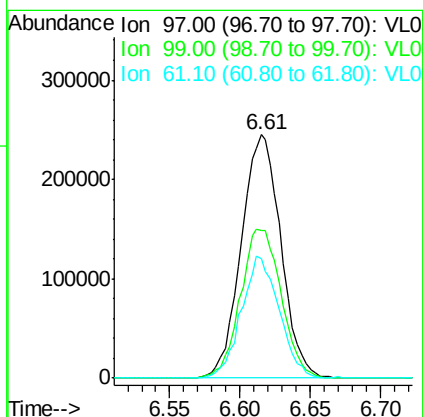
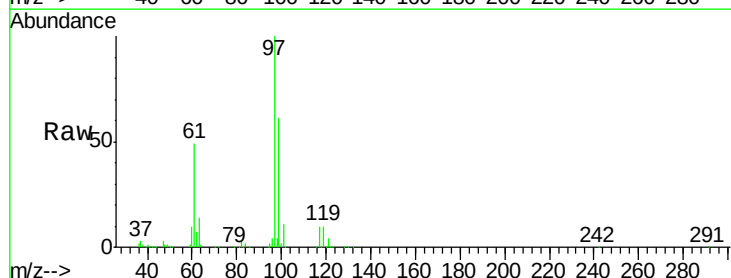
apatel
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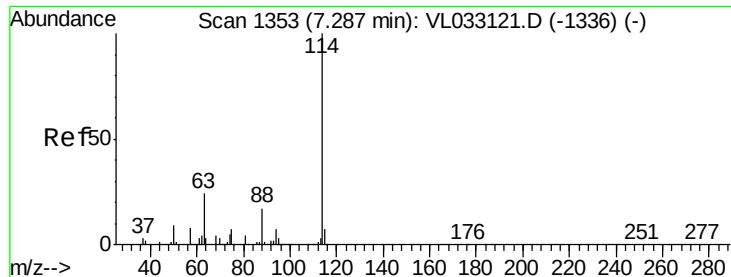


#32

1,1,1-Trichloroethane
Concen: 2.219 ppbv
RT: 6.61 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	481102		
99	63.3		51.7	77.5
61	47.9		38.6	57.8





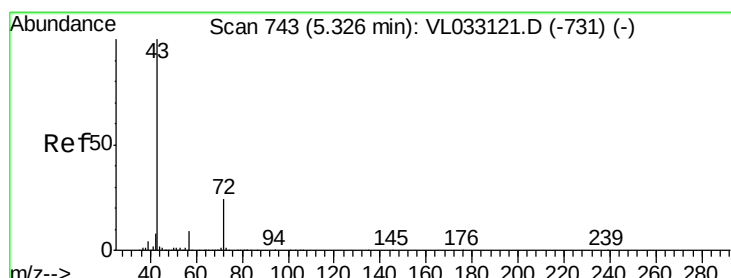
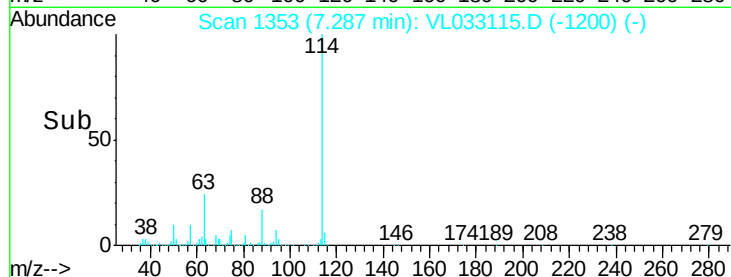
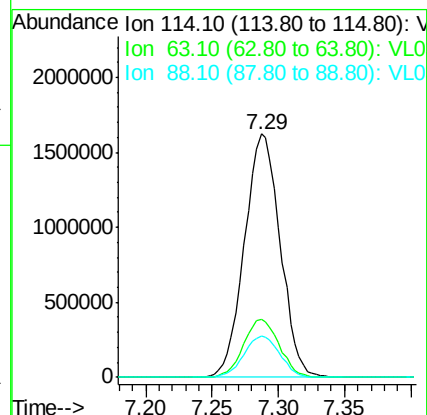
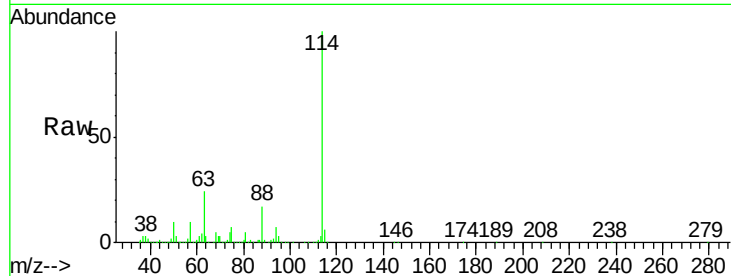
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:114 Resp: 3034163
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.8 29.8
 88 17.2 14.2 21.2

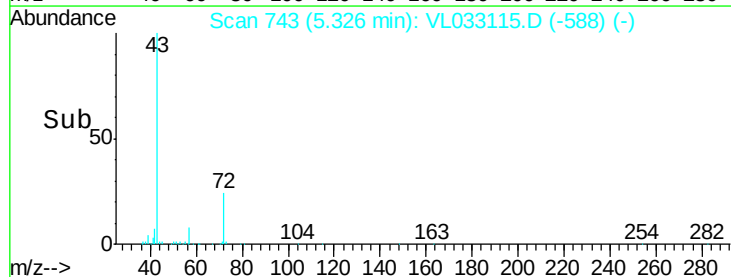
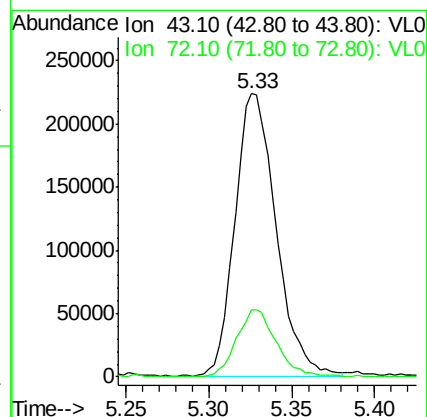
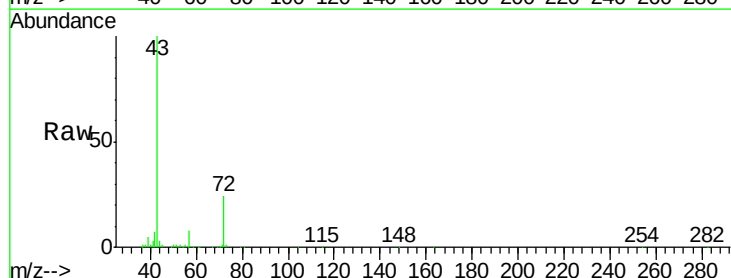
Manual Integrations
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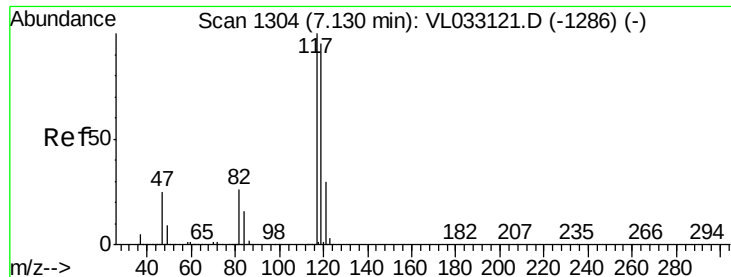
apatel
 1/29/2019 2:35:59 PM



#34
 2-Butanone
 Concen: 2.182 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Tgt Ion: 43 Resp: 384594
 Ion Ratio Lower Upper
 43 100
 72 23.4 18.7 28.1





#35

Carbon Tetrachloride

Concen: 2.040 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

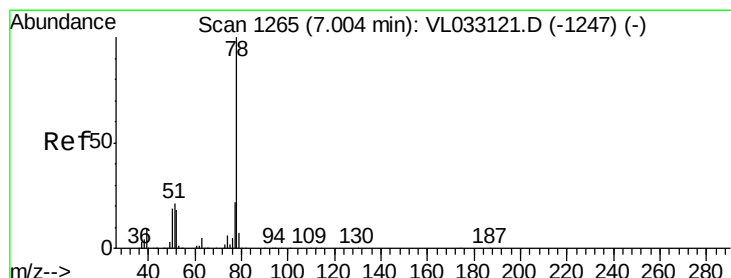
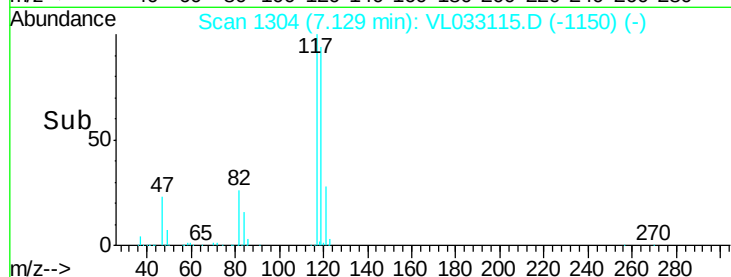
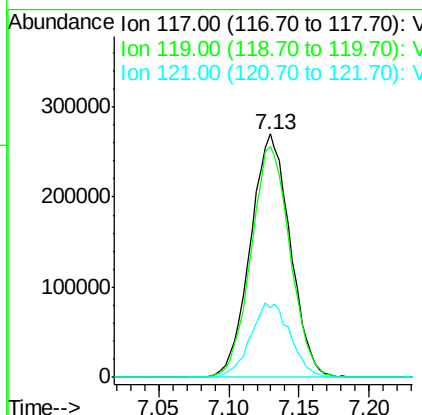
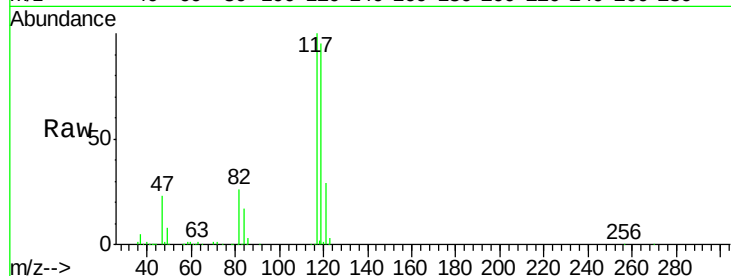
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	531729
Ion	Ratio	Lower	Upper
117	100		
119	94.6	75.8	113.6
121	28.5	24.6	36.8

Manual Integrations
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#36

Benzene

Concen: 2.233 ppbv

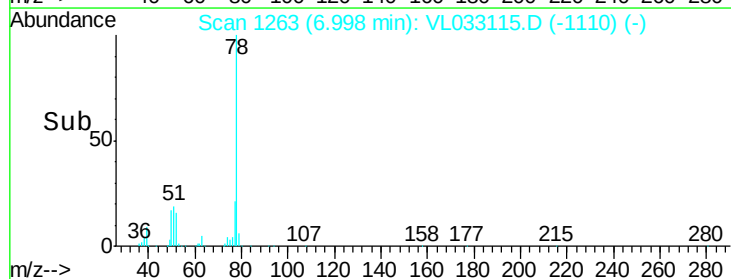
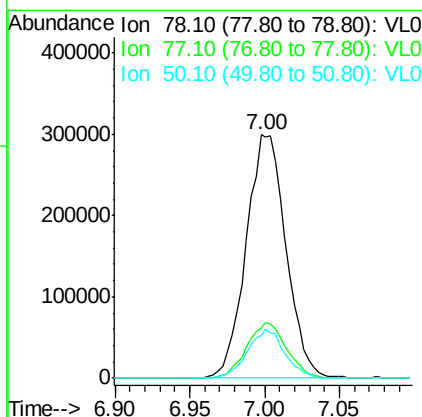
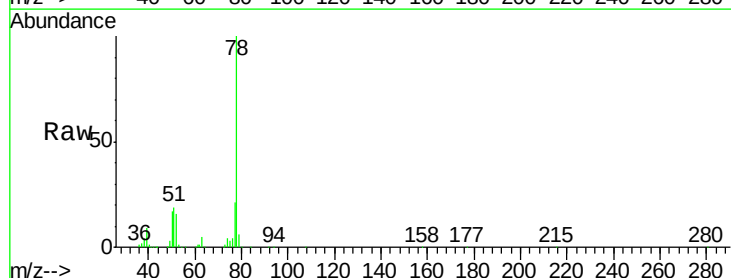
RT: 7.00 min Scan# 1263

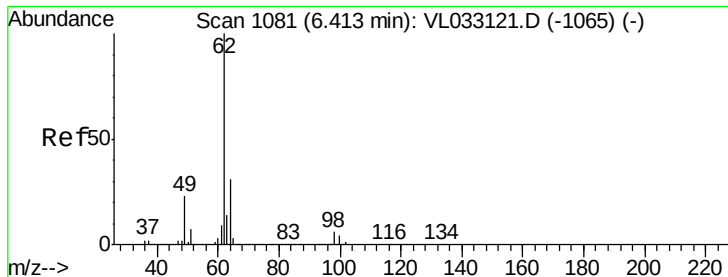
Delta R.T. -0.01 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion:	78	Resp:	554876
Ion	Ratio	Lower	Upper
78	100		
77	20.6	18.5	27.7
50	17.4	15.4	23.2





#37

1,2-Dichloroethane

Concen: 2.016 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 349881

Ion Ratio Lower Upper

62 100

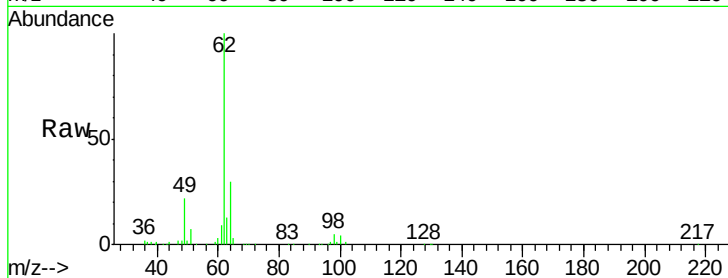
98 5.8 4.6 7.0

Manual Integrations

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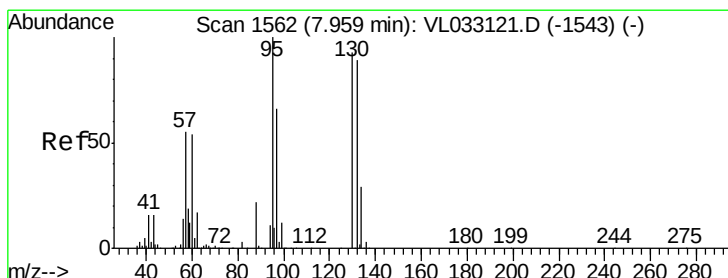
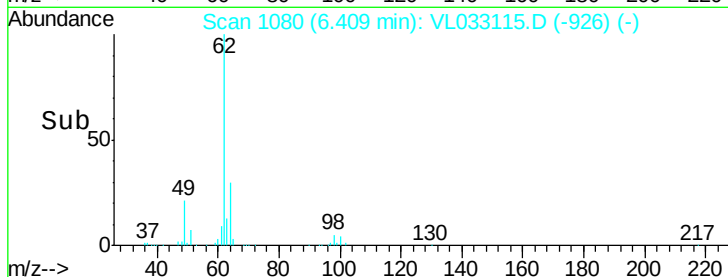
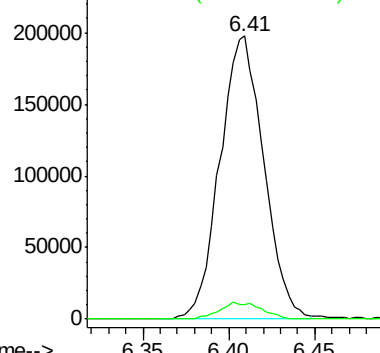
apatel

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 2.242 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion: 130 Resp: 229263

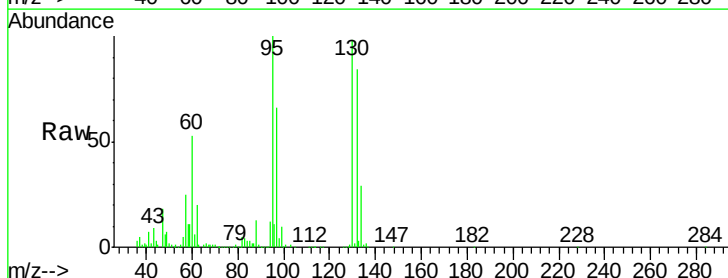
Ion Ratio Lower Upper

130 100

95 102.5 94.0 141.0

132 86.2 79.7 119.5

97 68.0 58.4 87.6

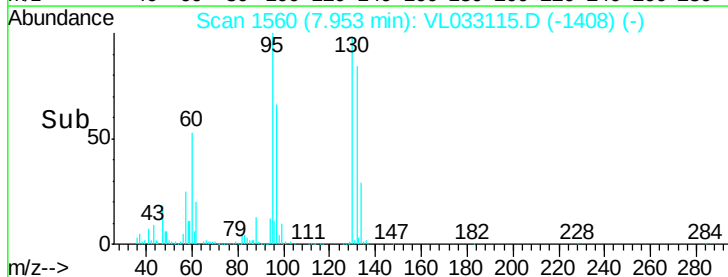
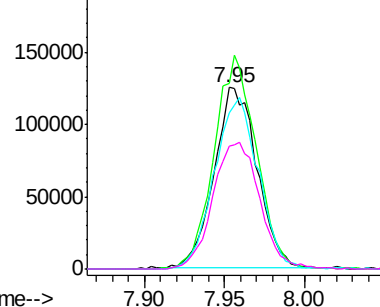


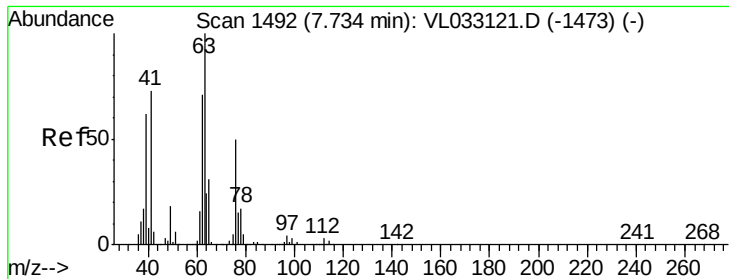
Abundance Ion 130.00 (129.70 to 130.70): V

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





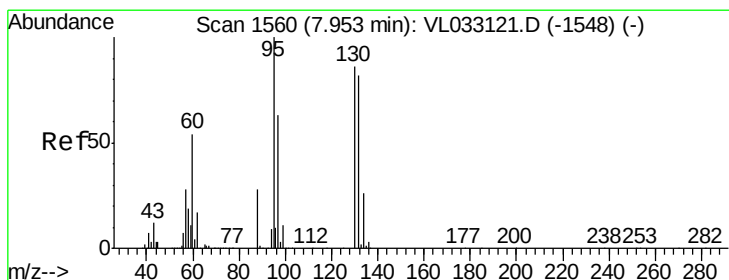
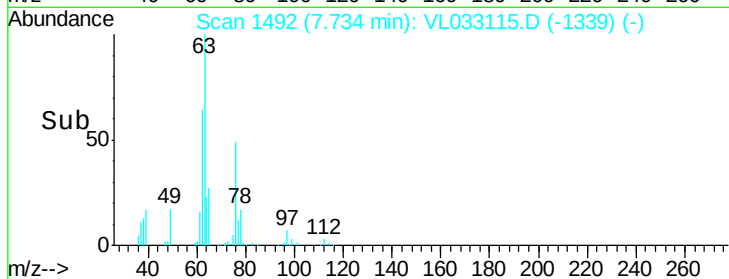
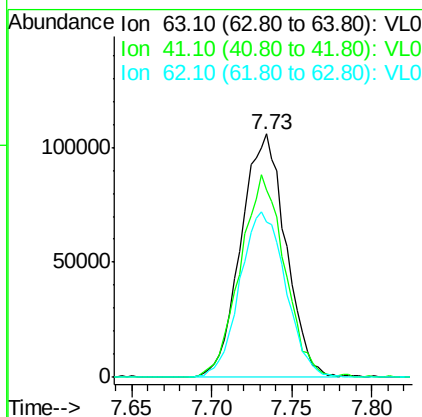
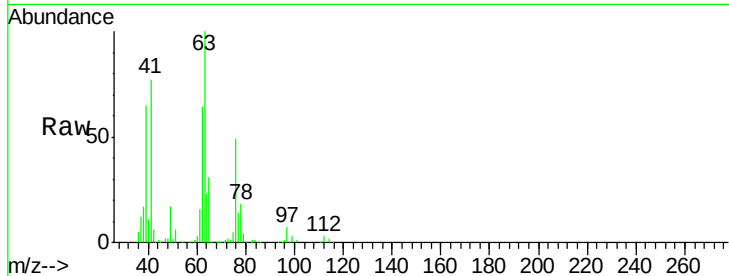
#39
 1,2-Dichloropropane
 Concen: 2.150 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.4	57.8	86.8
62	63.9	54.6	82.0

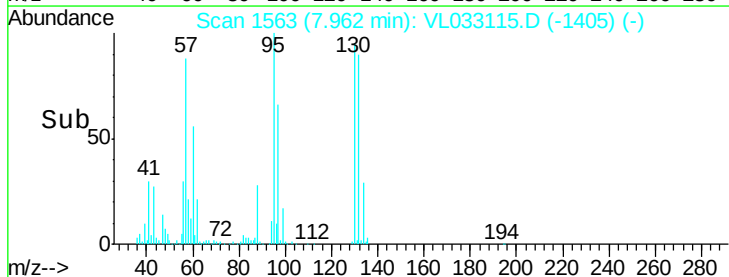
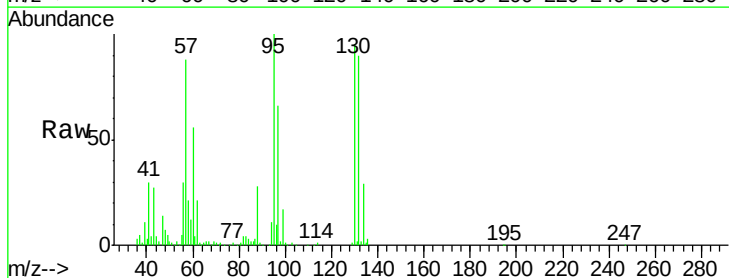
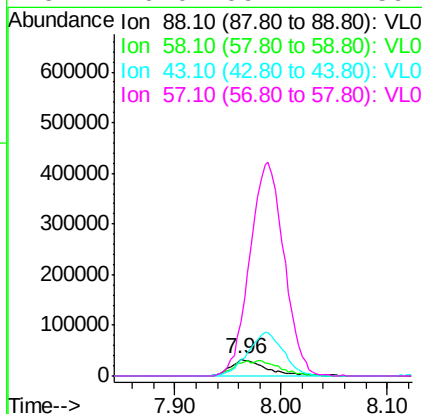
Manual Integrations
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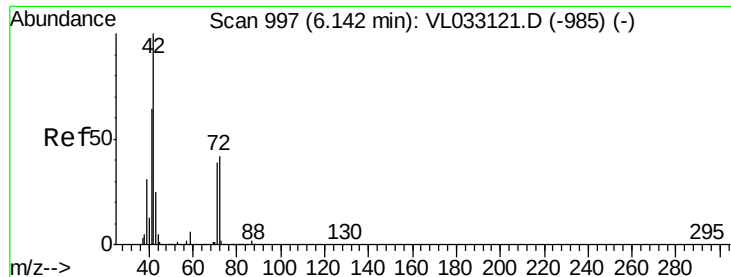
apatel
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#40
 1,4-Dioxane
 Concen: 2.221 ppbv m
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.01 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	103.5	155.3#
43	0.0	217.8	326.8#
57	0.0	992.7	1489.1#





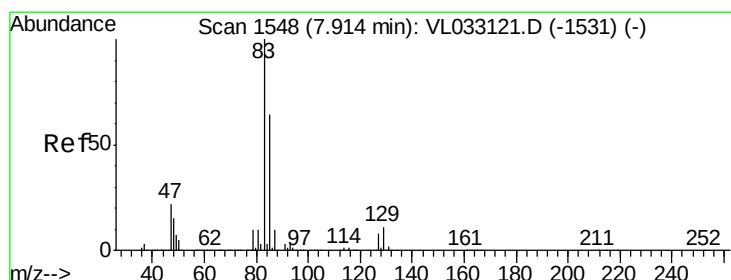
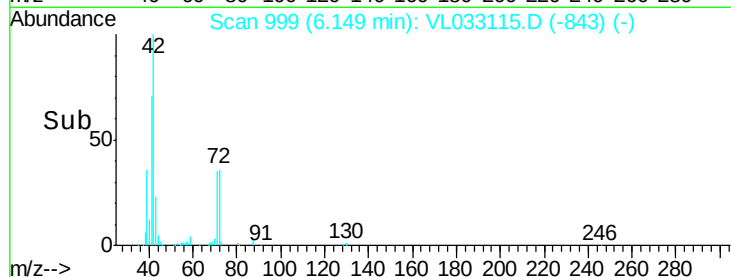
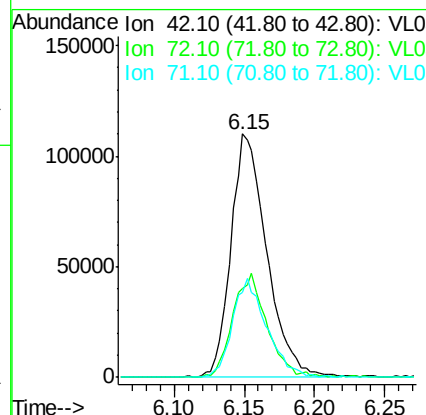
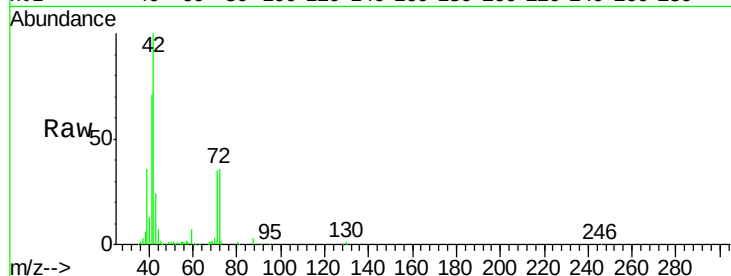
#41
Tetrahydrofuran
Concen: 2.189 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	33.8	50.8
71	39.0	31.6	47.4

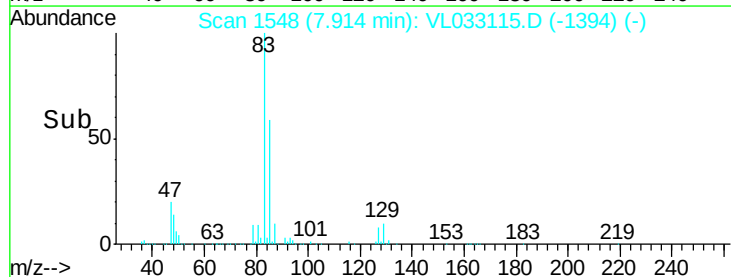
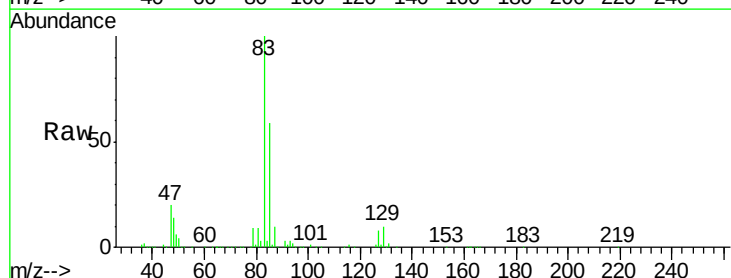
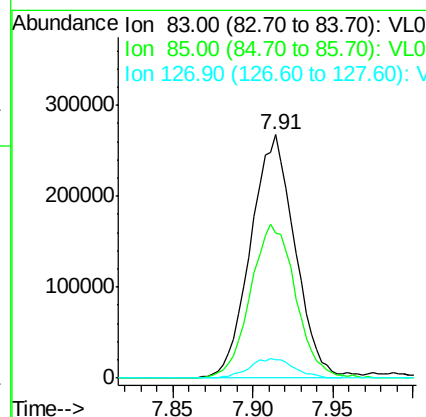
Manual Integrations
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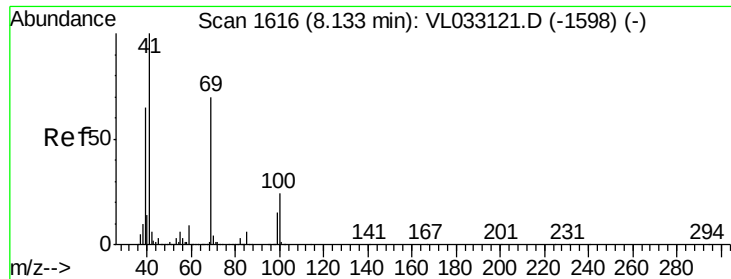
apatel
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#42
Bromodichloromethane
Concen: 2.123 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.5	52.9	79.3
127	7.6	6.7	10.1





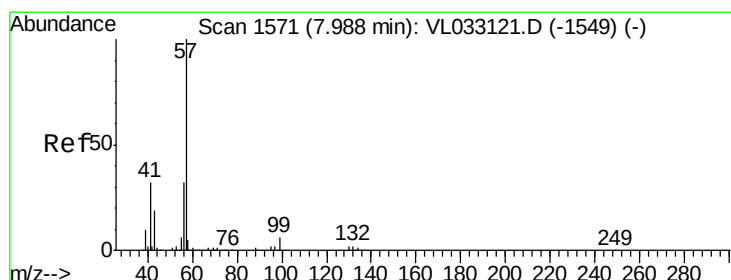
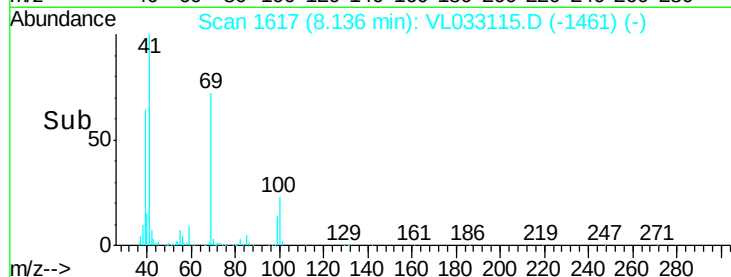
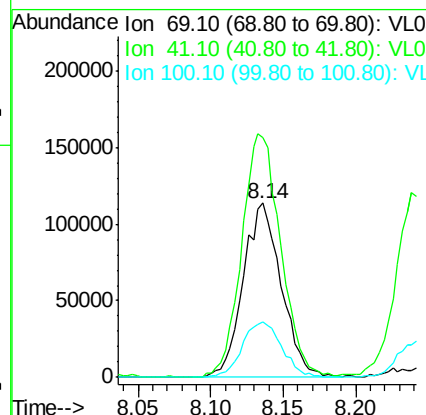
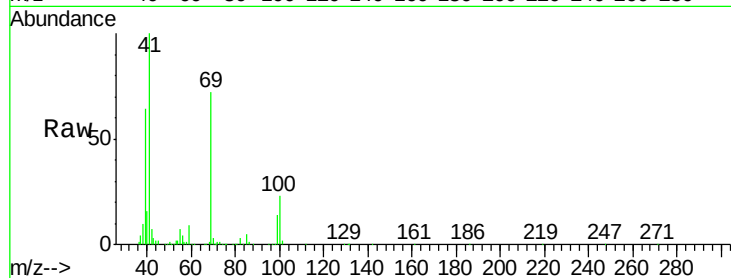
#43
Methvl Methacrylate
Concen: 2.230 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	142.4	113.9	170.9
100	33.2	26.2	39.4

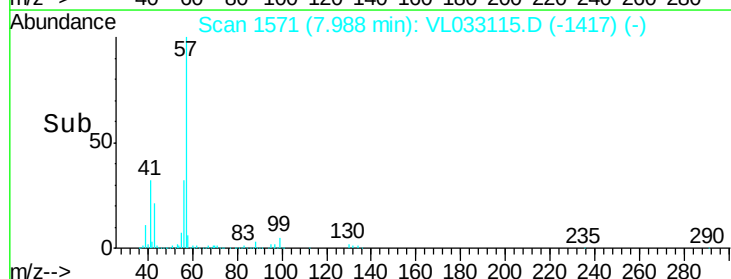
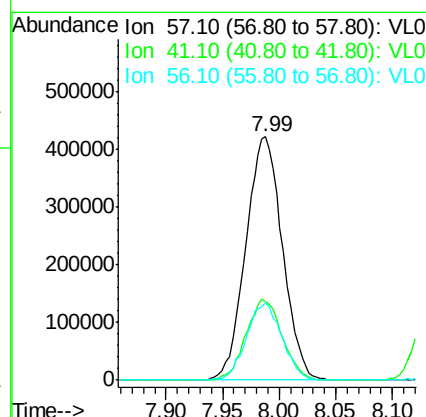
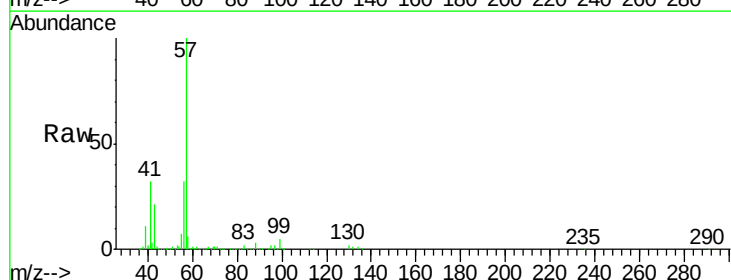
Manual Integrations
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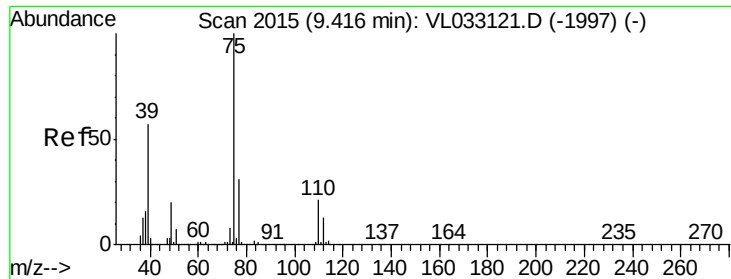
apatel
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#44
2,2,4-Trimethylpentane
Concen: 2.254 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.1	26.1	39.1
56	30.9	25.0	37.4





#45

t-1,3-Dichloropropene

Concen: 2.121 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 246275

Ion Ratio Lower Upper

75 100

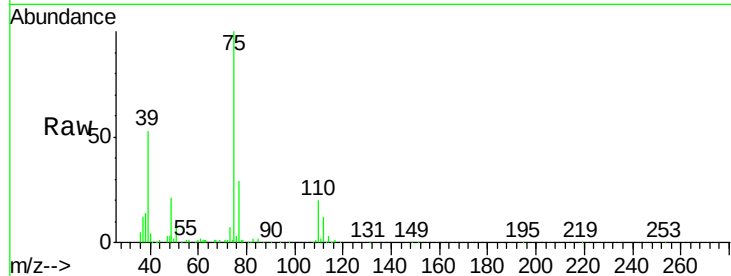
77 29.4 24.9 37.3

Manual Integrations

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apatel

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.41

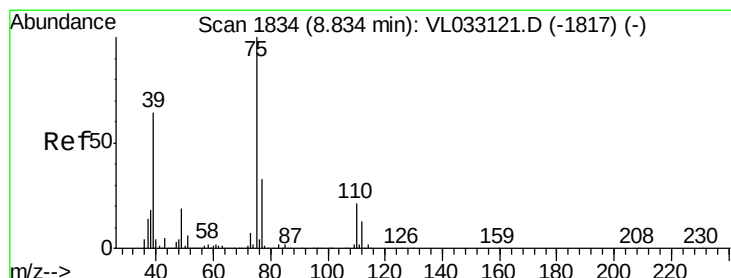
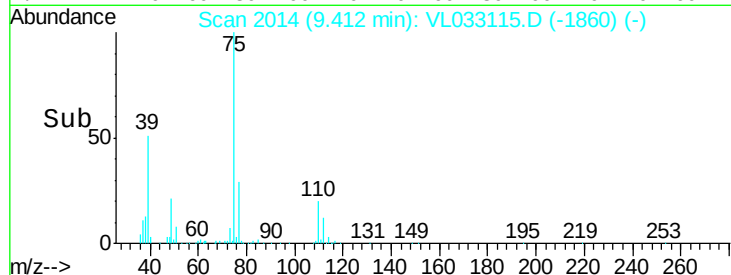
150000

100000

50000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 2.267 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

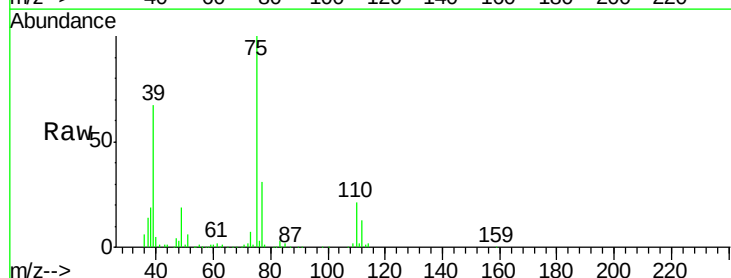
Tgt Ion: 75 Resp: 300342

Ion Ratio Lower Upper

75 100

39 66.6 52.0 78.0

77 31.0 25.5 38.3



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

200000

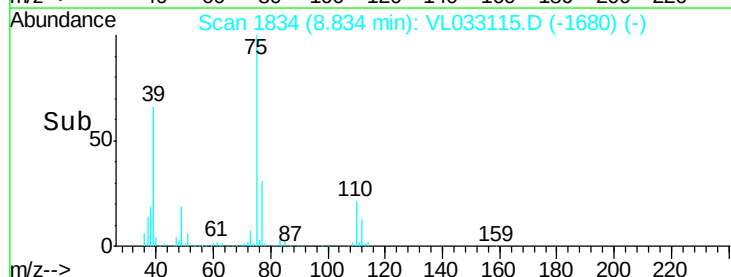
150000

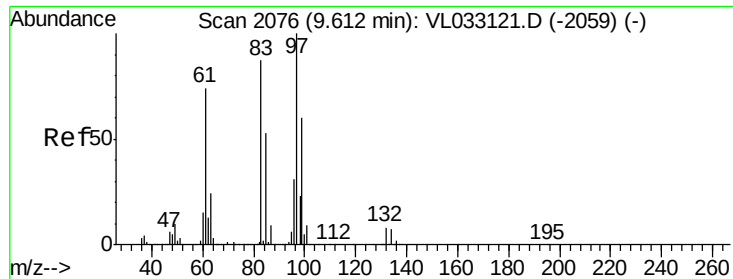
100000

50000

0

Time-->





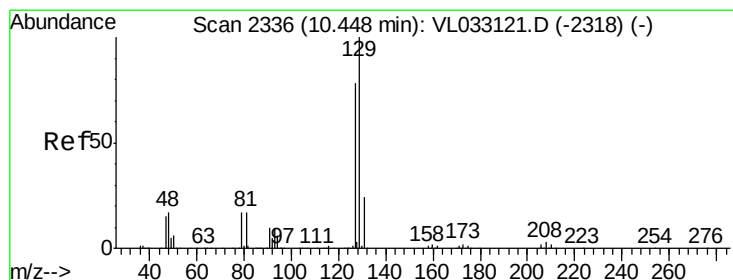
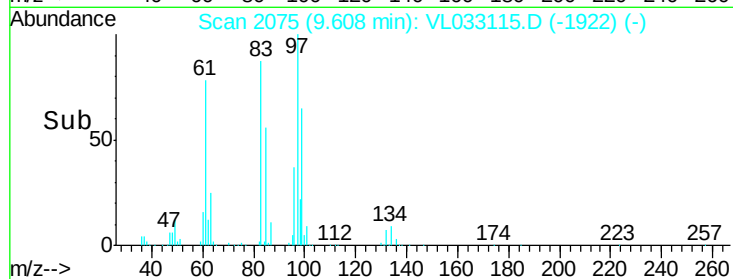
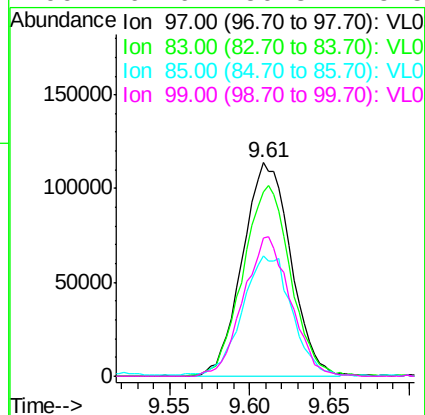
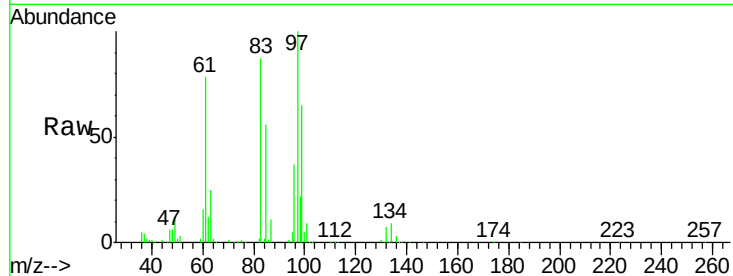
#47
 1,1,2-Trichloroethane
 Concen: 2.150 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	97	Resp	234512
Ion Ratio	Lower	Upper	
97	100		
83	86.1	71.4	107.2
85	55.7	47.2	70.8
99	64.6	50.3	75.5

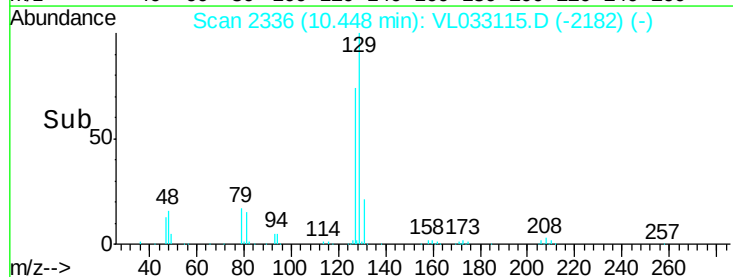
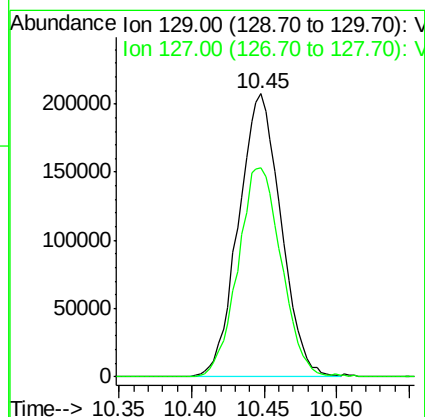
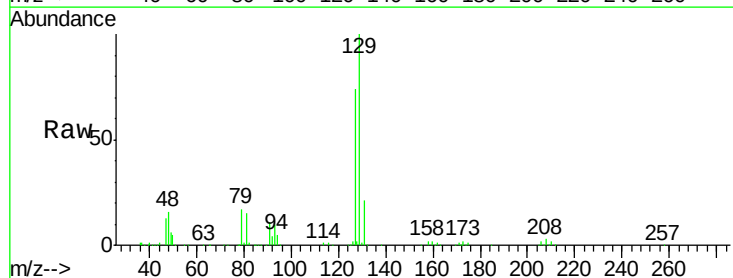
Manual Integrations
 APPROVED

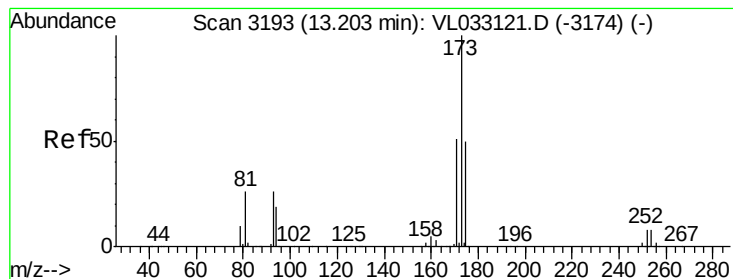
apatel
 1/29/2019 2:35:59 PM



#48
 Dibromochloromethane
 Concen: 2.187 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Tgt Ion	129	Resp	421524
Ion Ratio	Lower	Upper	
129	100		
127	76.2	39.3	117.9





#49

Bromoform

Concen: 2.155 ppbv m

RT: 13.20 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

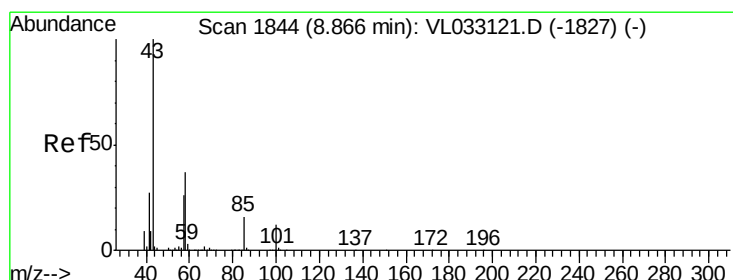
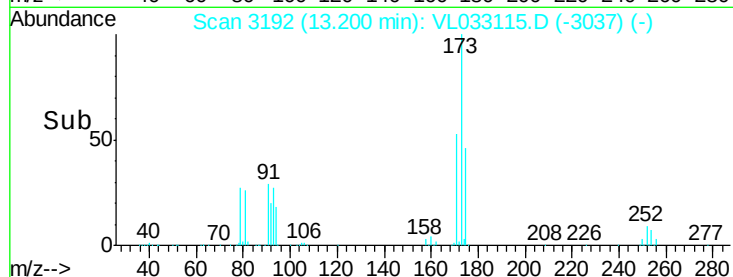
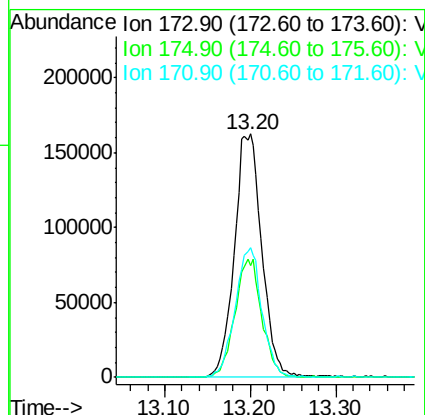
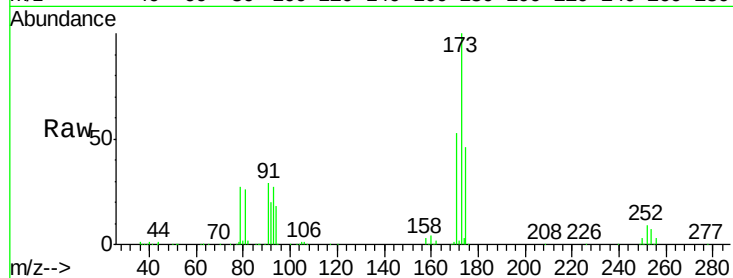
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	38.9	58.3#
171	0.0	41.8	62.6#

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 2.333 ppbv

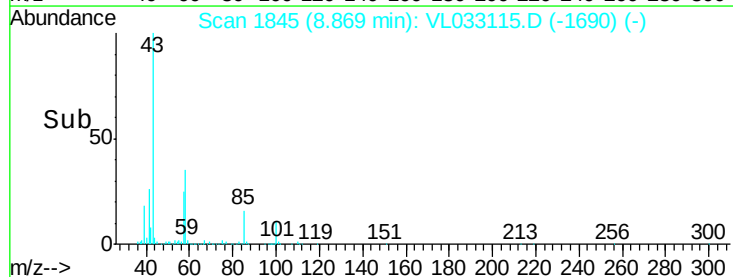
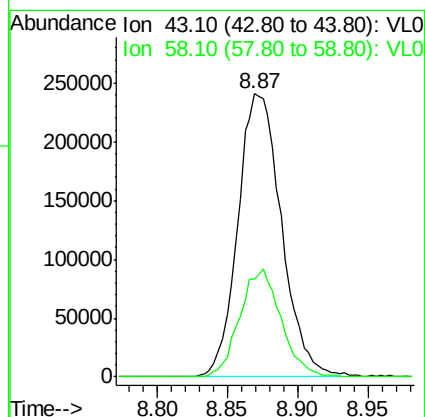
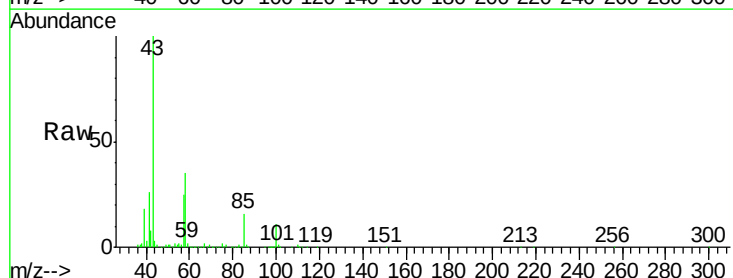
RT: 8.87 min Scan# 1845

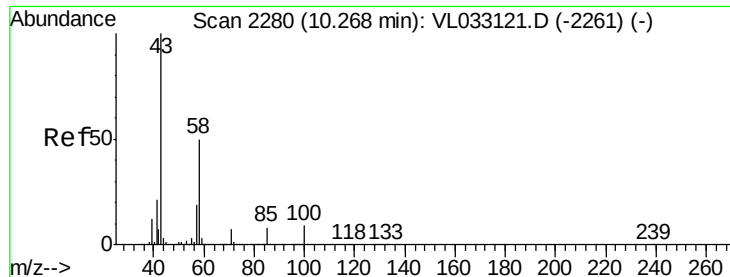
Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.2	29.4	44.0





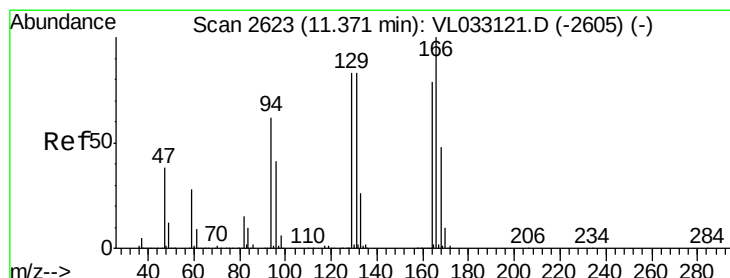
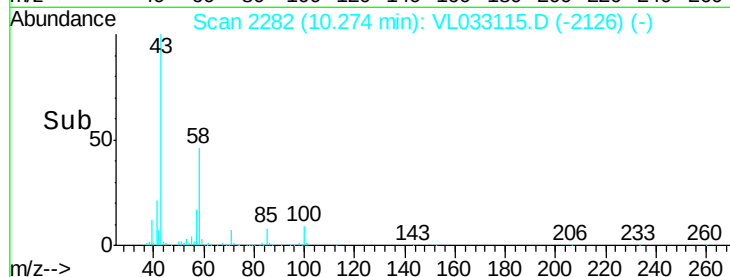
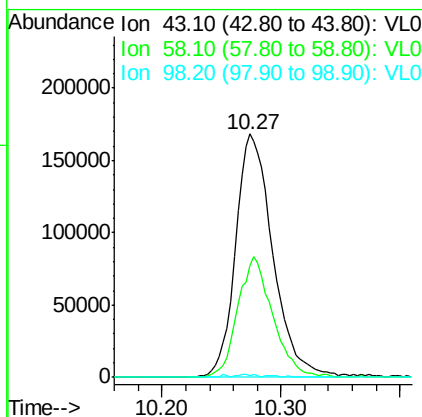
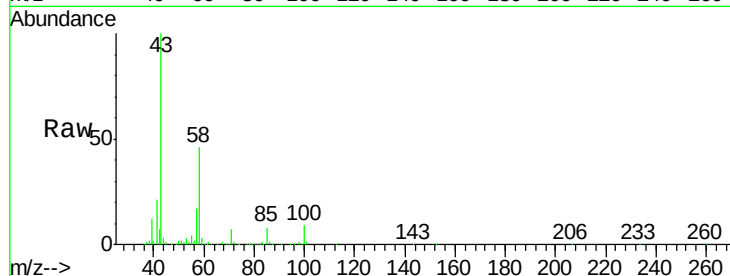
#51
2-Hexanone
Concen: 2.253 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.0	39.5	59.3
98	0.8	0.3	0.5

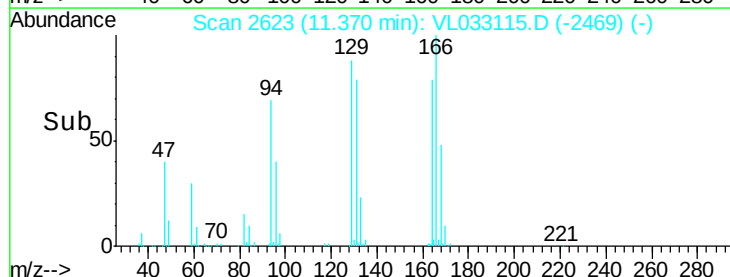
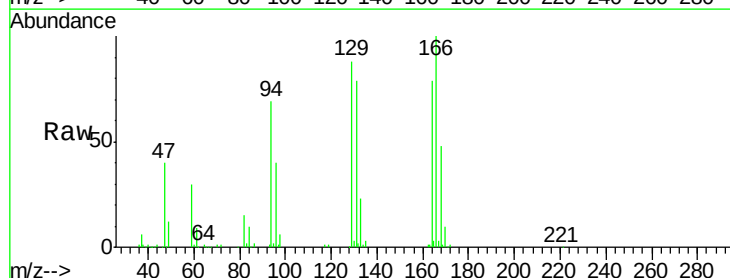
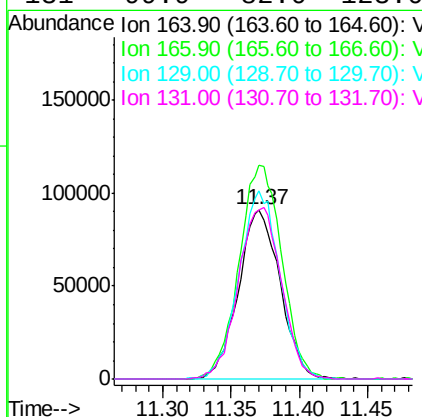
Manual Integrations
APPROVED

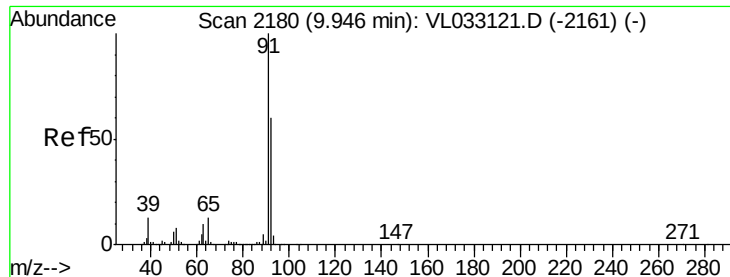
apatel
1/29/2019 2:35:59 PM



#52
Tetrachloroethene
Concen: 2.203 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.9	101.3	151.9
129	110.8	83.3	124.9
131	99.9	82.0	123.0





#53

Toluene

Concen: 2.281 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 607452

Ion Ratio Lower Upper

91 100

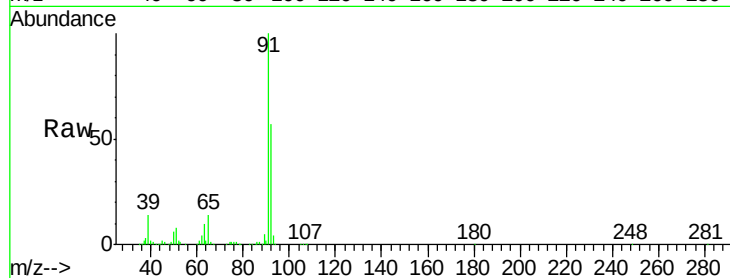
92 58.2 47.9 71.9

Manual Integrations

APPROVED

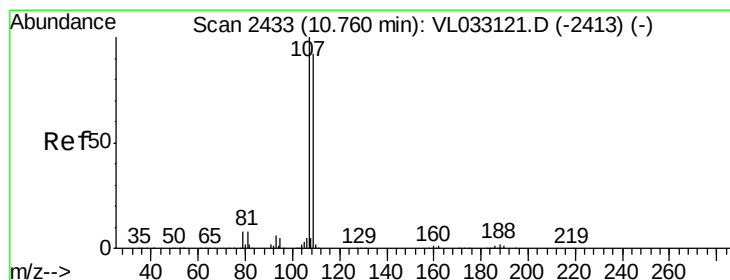
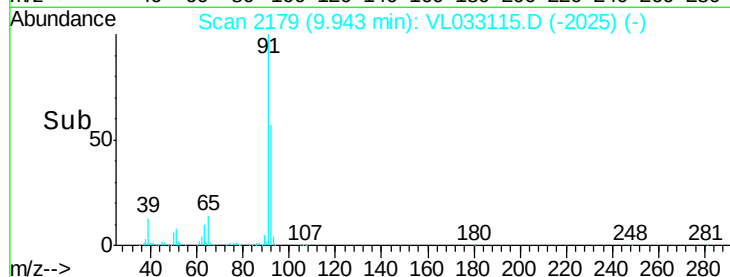
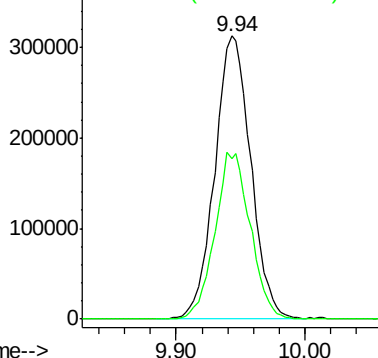
apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 2.140 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033115.D

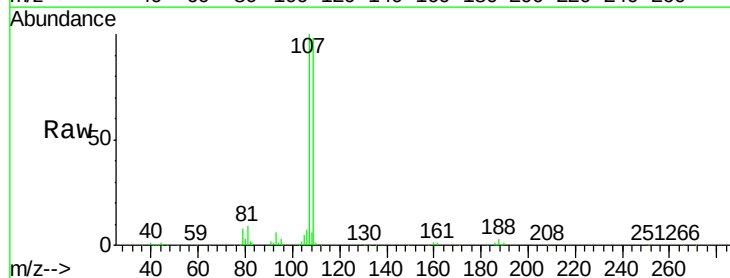
Acq: 28 Jan 2019 16:22

Tgt Ion: 107 Resp: 336294

Ion Ratio Lower Upper

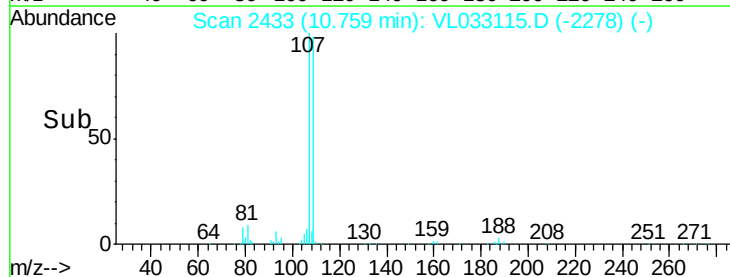
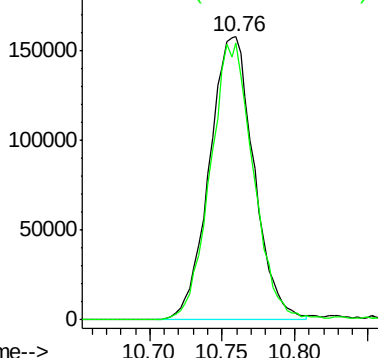
107 100

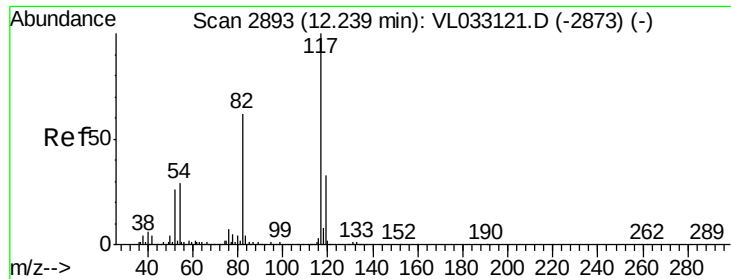
109 97.9 75.8 113.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





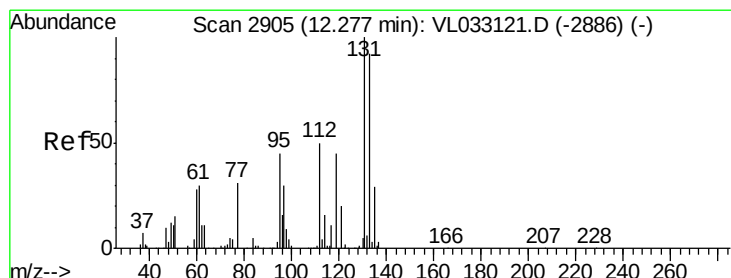
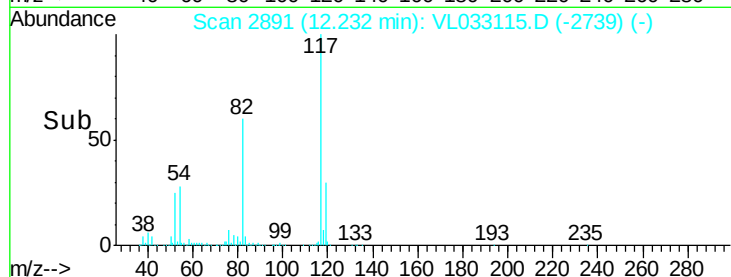
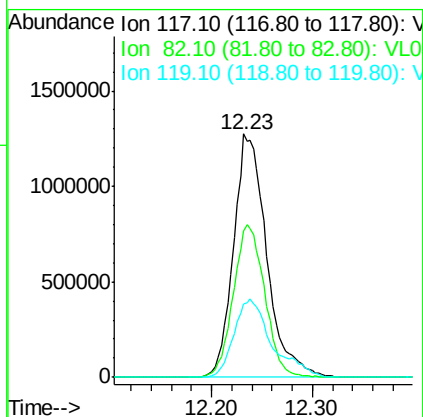
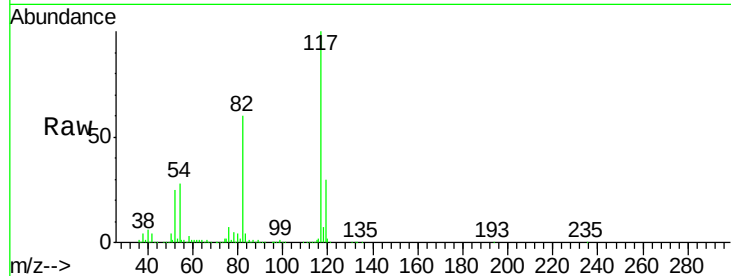
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.7	48.3	72.5
119	36.8	25.9	38.9

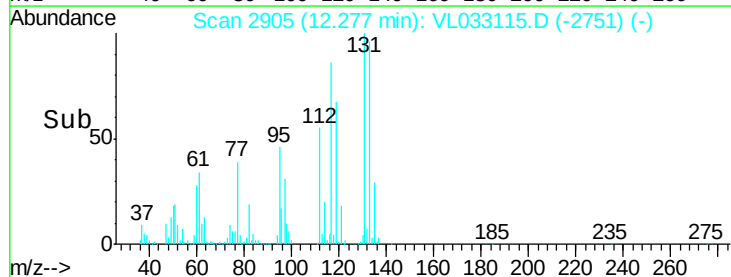
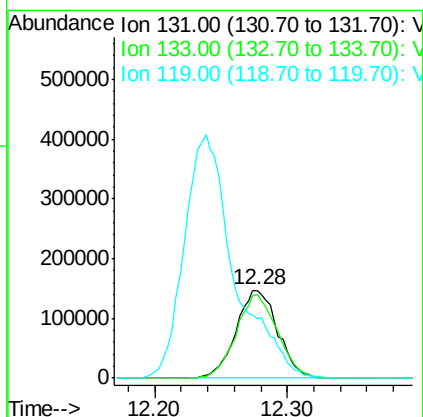
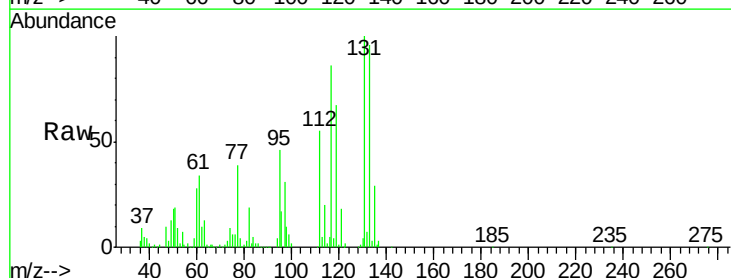
Manual Integrations
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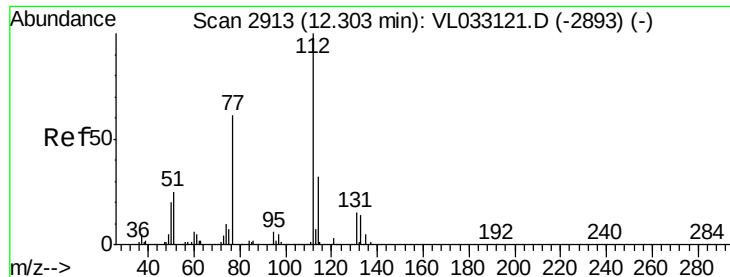
apatel
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.130 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.0	76.6	115.0
119	335.1	44.6	66.8#





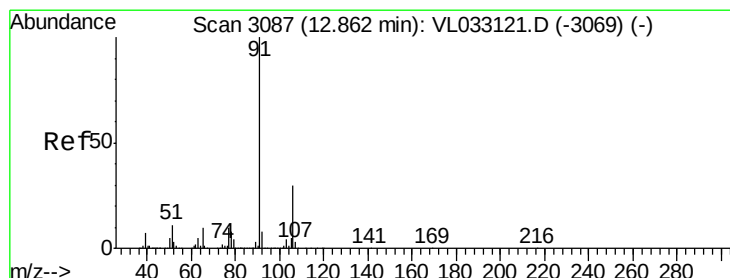
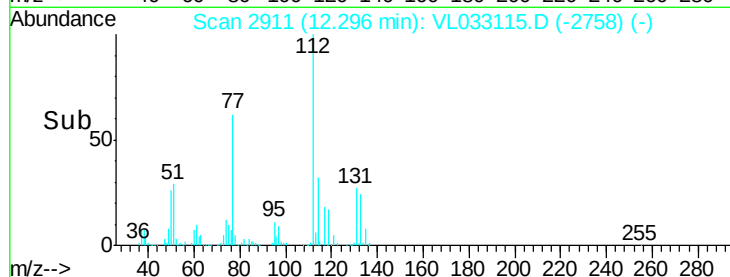
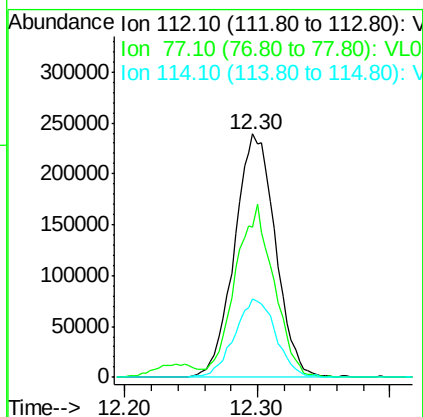
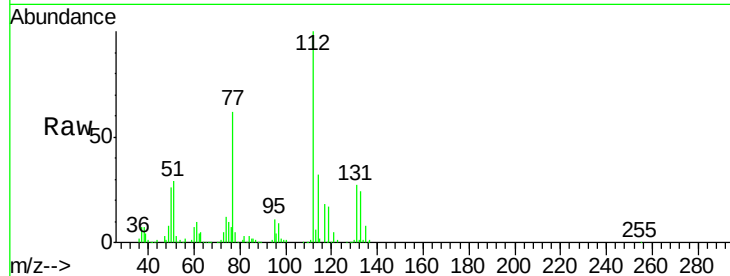
#57
Chlorobenzene
Concen: 2.102 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
112	100		
77	61.8	51.6	77.4
114	32.4	27.9	34.1

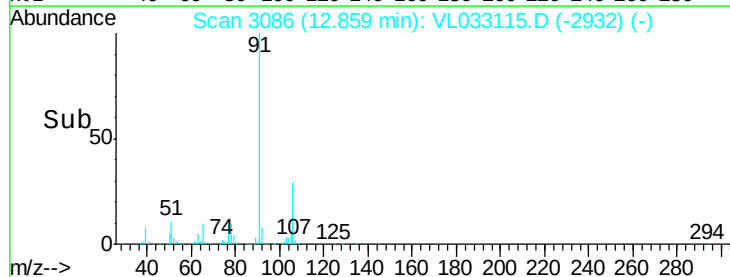
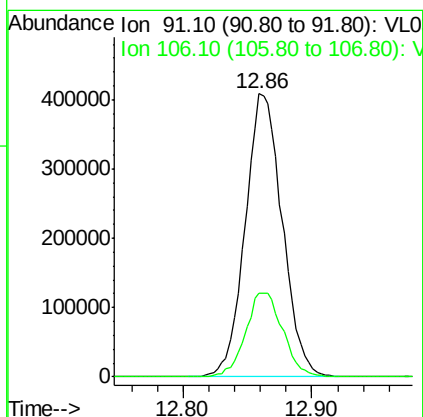
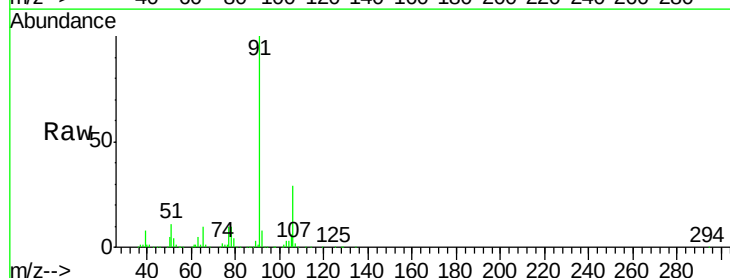
Manual Integrations
APPROVED

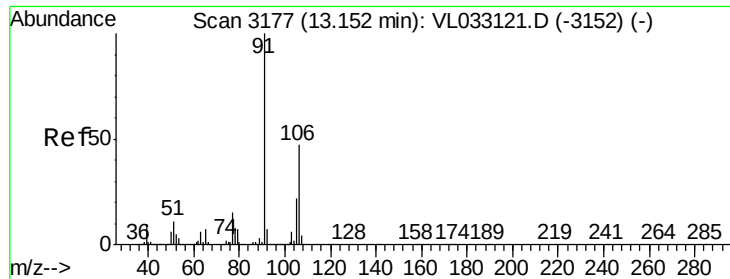
apatel
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#58
Ethyl Benzene
Concen: 2.226 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.4	24.4	36.6





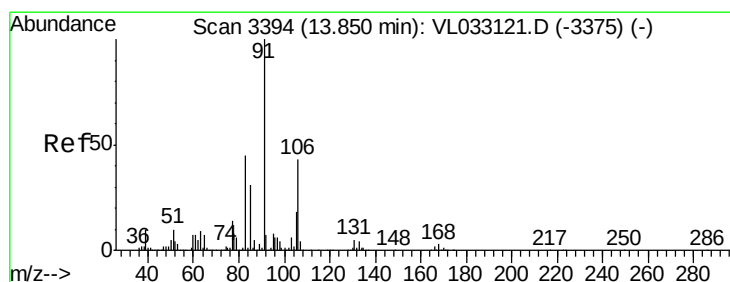
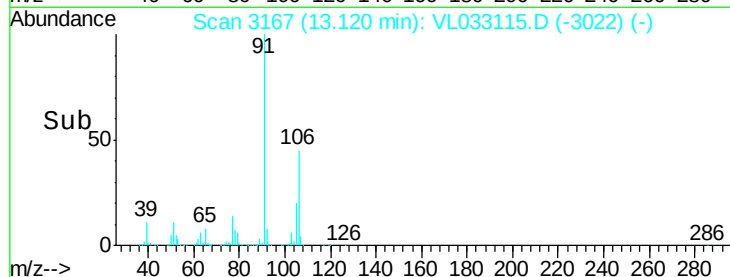
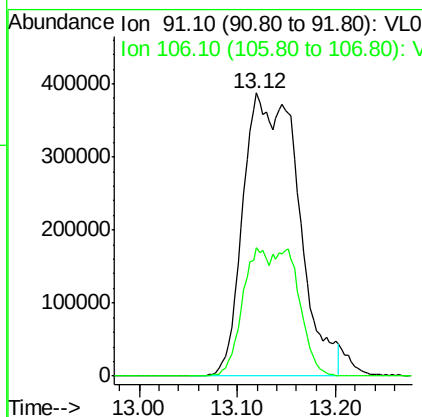
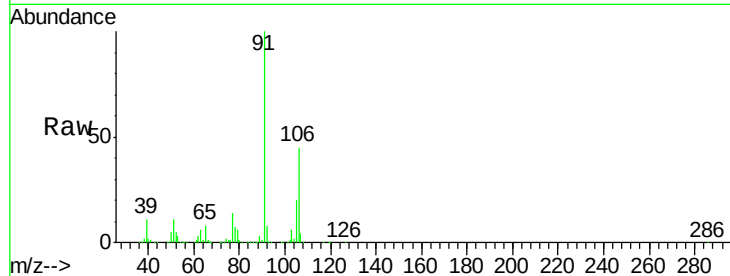
#59
m/p-Xylene
Concen: 4.459 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1513576
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

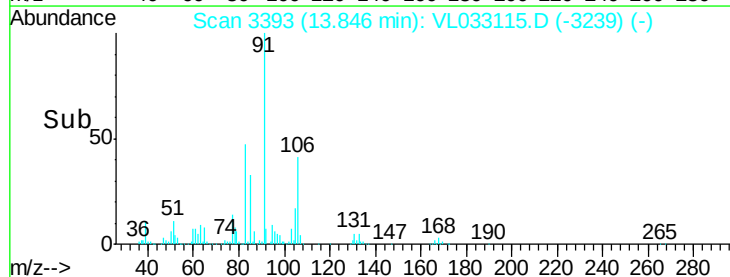
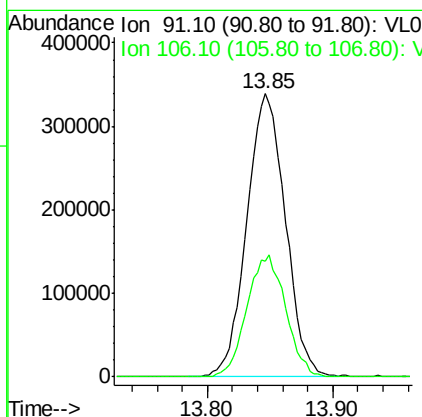
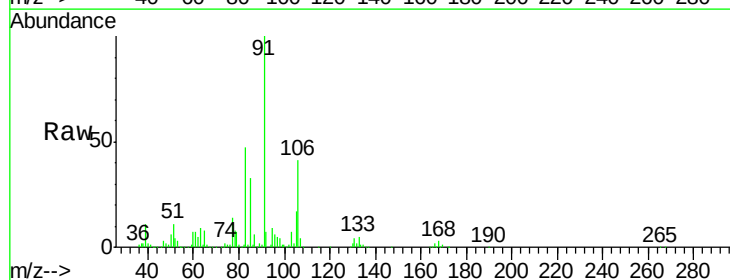
Manual Integrations
APPROVED

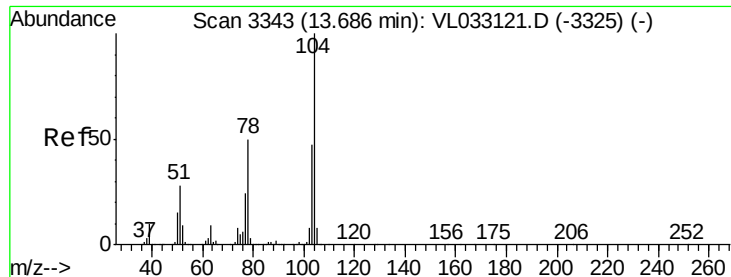
apatel
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#60
o-Xylene
Concen: 2.180 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion: 91 Resp: 724477
Ion Ratio Lower Upper
91 100
106 43.3 22.6 67.8





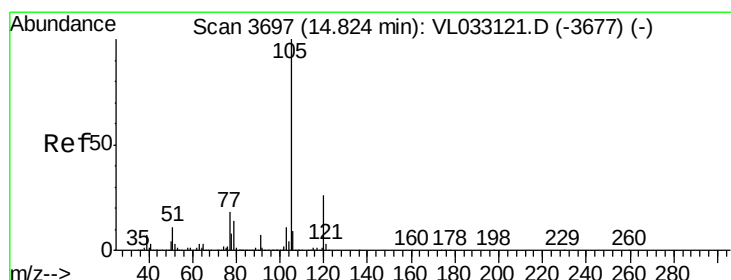
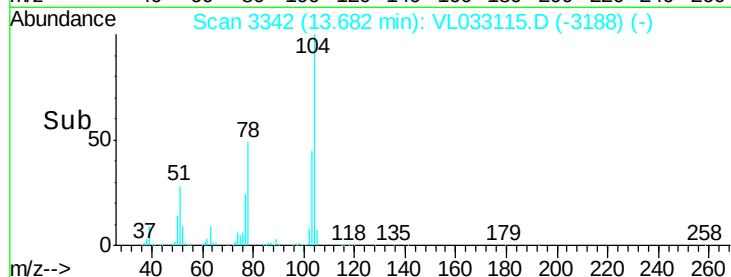
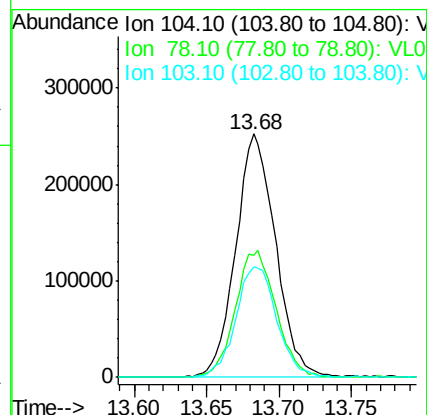
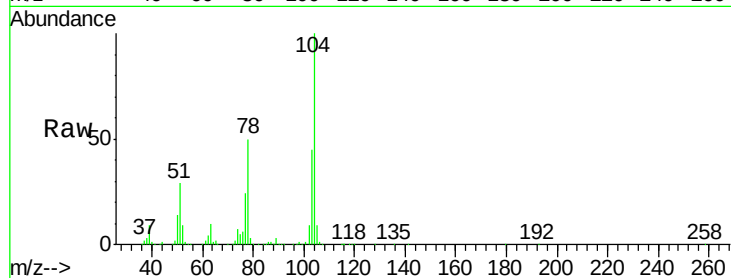
#61
Stvrene
Concen: 2.245 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.1	41.4	62.0
103	47.7	37.8	56.6

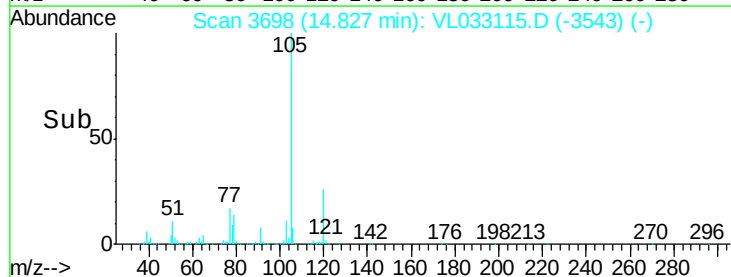
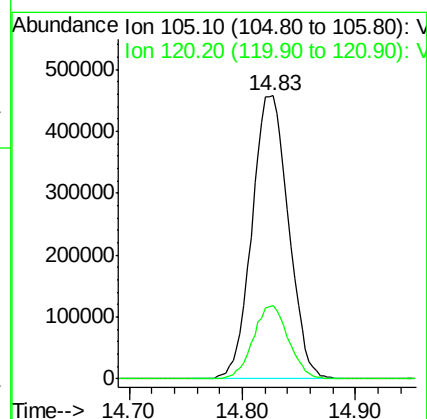
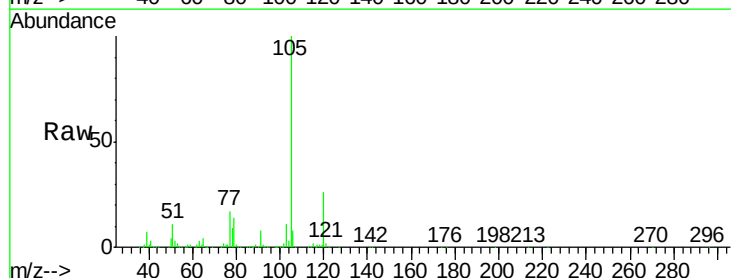
Manual Integrations
APPROVED

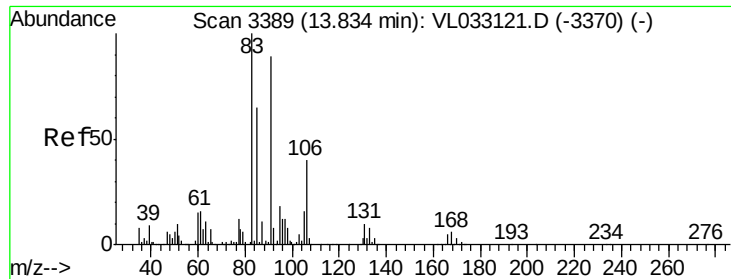
apatel
1/29/2019 2:35:59 PM



#62
Isopropylbenzene
Concen: 2.171 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033115.D
Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 2.106 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.01 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

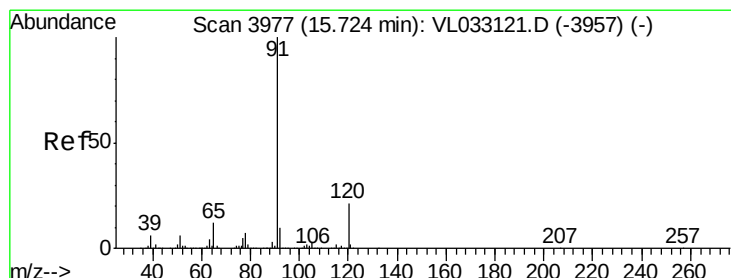
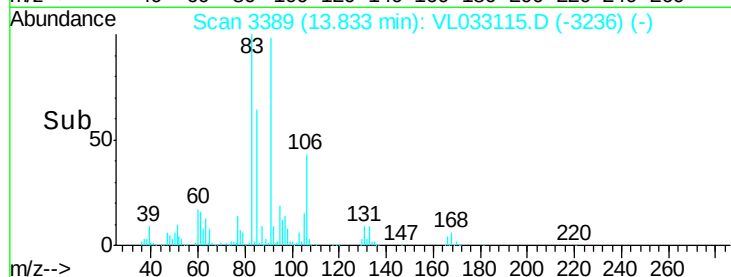
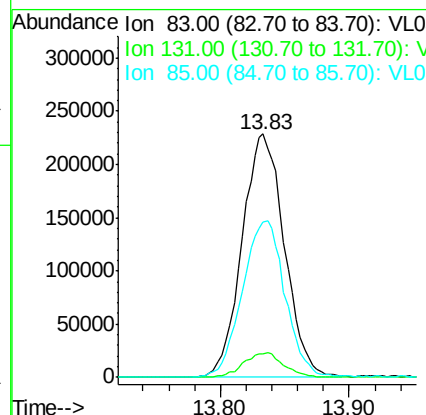
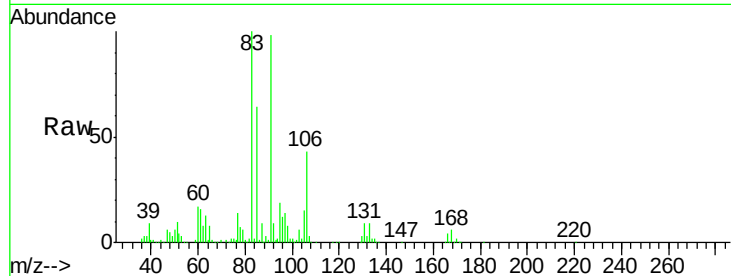
ClientSampleId :

VSTDIC002

Tot Ion:	83	Resp:	519937
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.9	14.6
85	65.7	32.5	97.4

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#64

n-propylbenzene

Concen: 2.131 ppbv

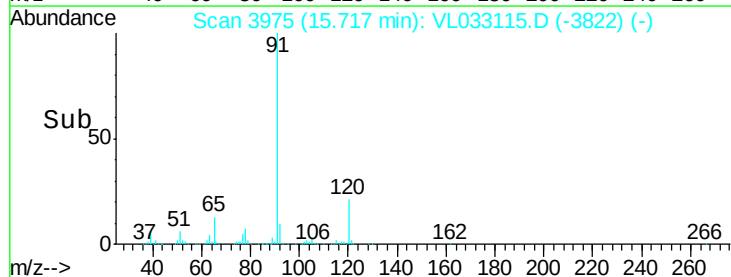
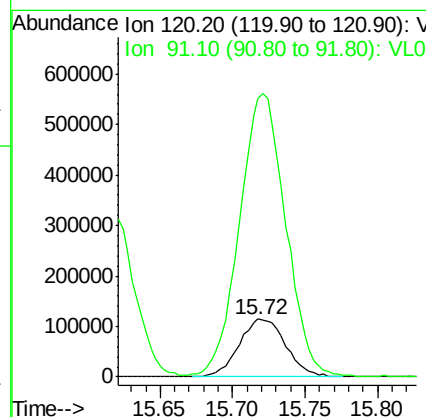
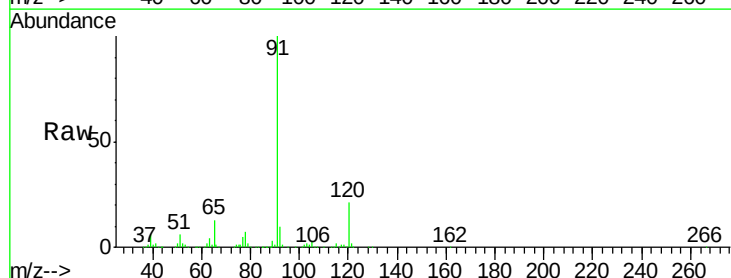
RT: 15.72 min Scan# 3975

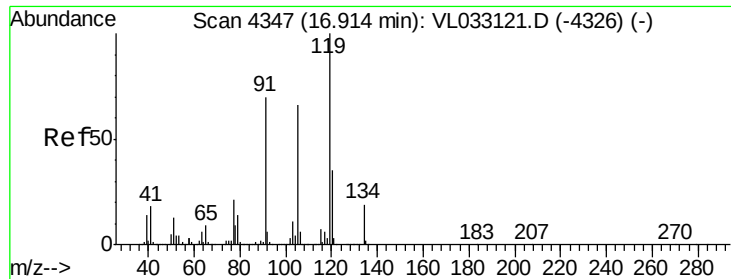
Delta R.T. -0.01 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion:	120	Resp:	256060
Ion Ratio	Lower	Upper	
120	100		
91	485.0	375.7	563.5





#65

tert-Butylbenzene

Concen: 2.159 ppbv m

RT: 16.90 min Scan# 4344

Delta R.T. -0.01 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

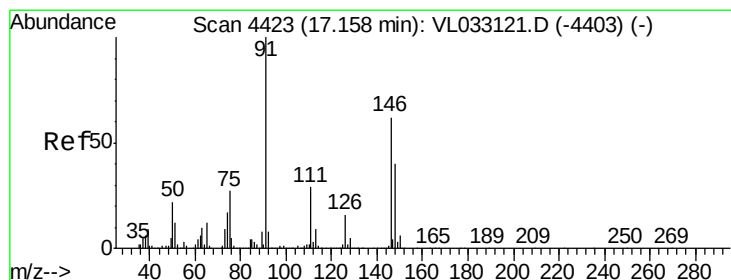
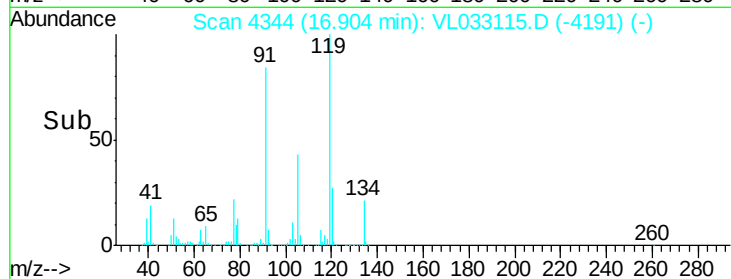
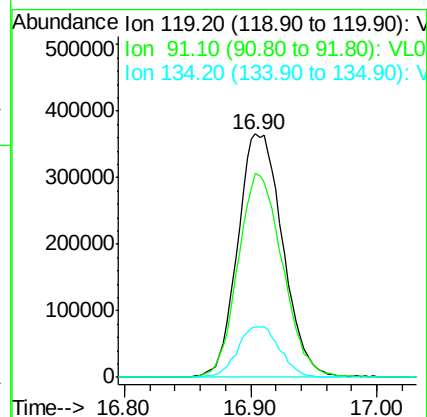
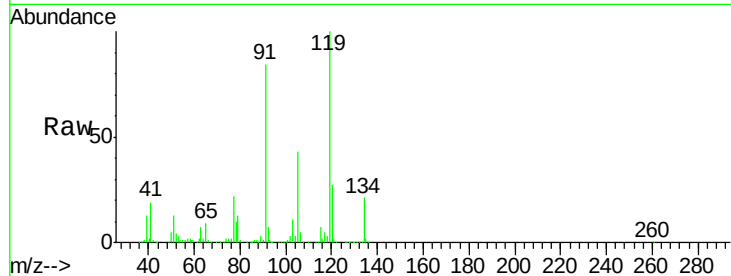
ClientSampleId :

VSTDIC002

Tot Ion:	119	Resp:	904676
Ion Ratio	Lower	Upper	
119	100		
91	83.3	64.5	96.7
134	0.0	15.7	23.5#

Manual Integrations
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#66

Benzyl Chloride

Concen: 1.967 ppbv

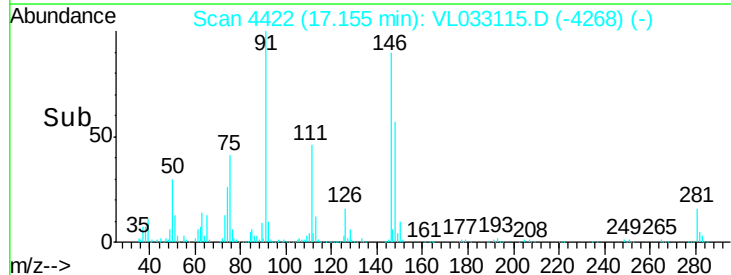
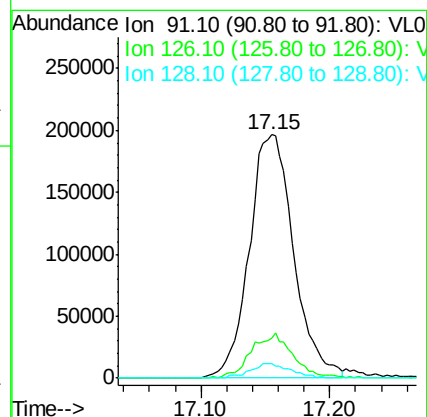
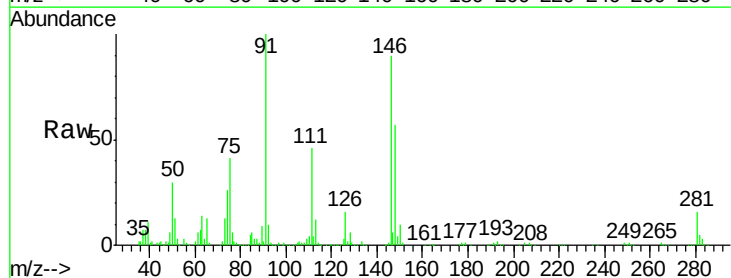
RT: 17.15 min Scan# 4422

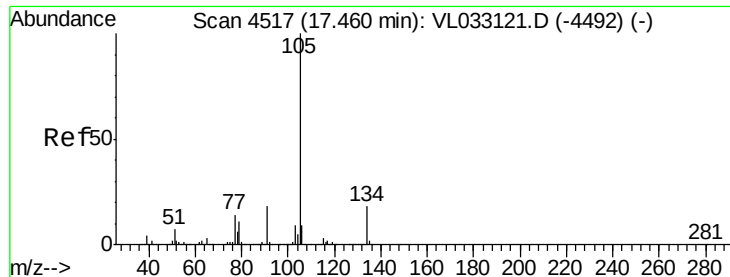
Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion:	91	Resp:	469579
Ion Ratio	Lower	Upper	
91	100		
126	17.7	14.3	21.5
128	5.8	4.6	7.0





#67

sec-Butylbenzene

Concen: 2.143 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1284888

Ion Ratio Lower Upper

105 100

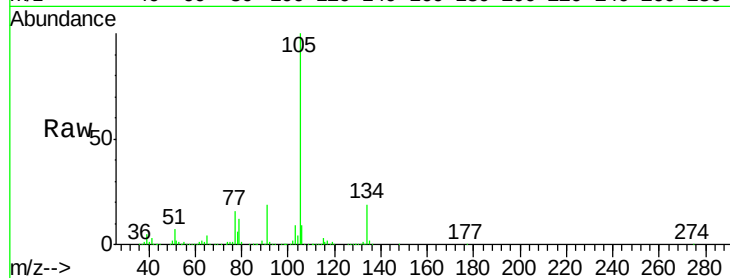
134 17.8 14.8 22.2

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

600000

500000

400000

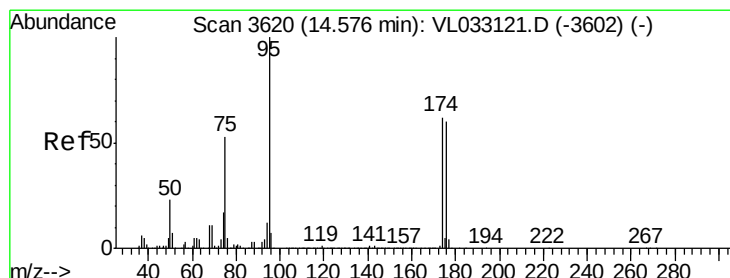
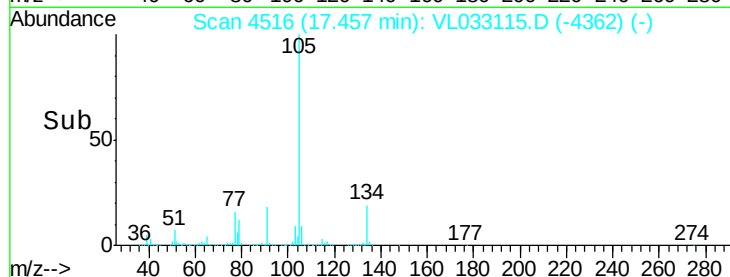
300000

200000

100000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.523 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

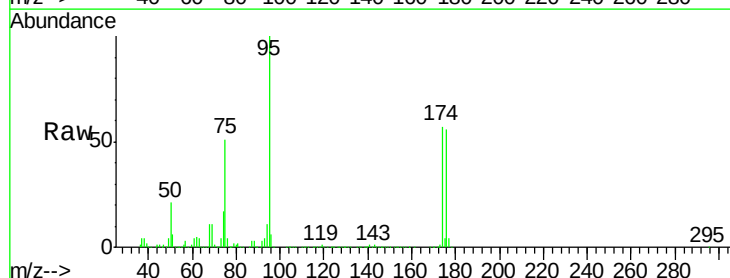
Tgt Ion: 95 Resp: 2121752

Ion Ratio Lower Upper

95 100

174 64.2 51.4 77.2

175 4.9 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

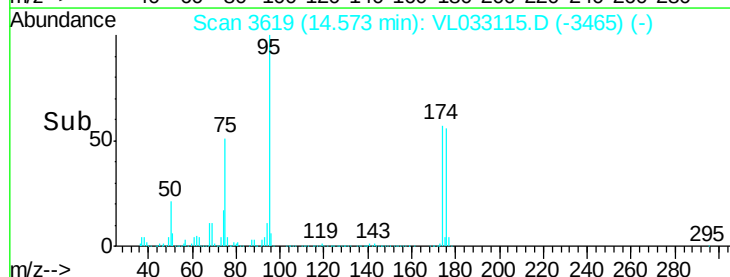
14.57

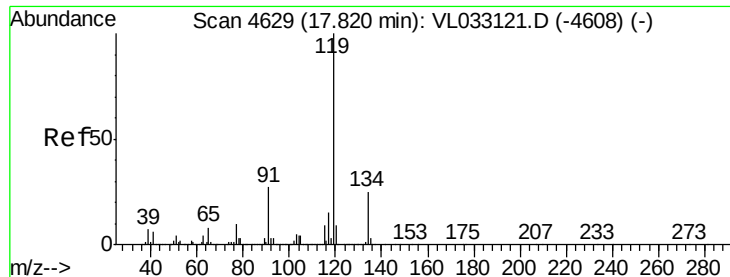
1000000

500000

0

Time-->





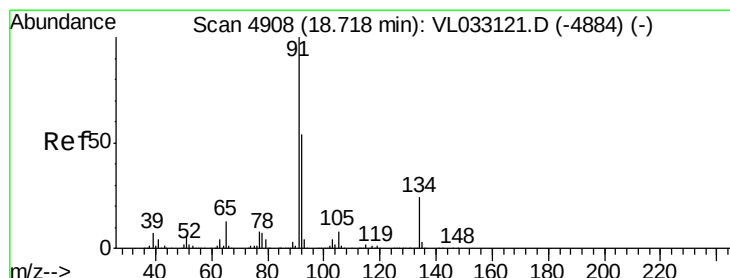
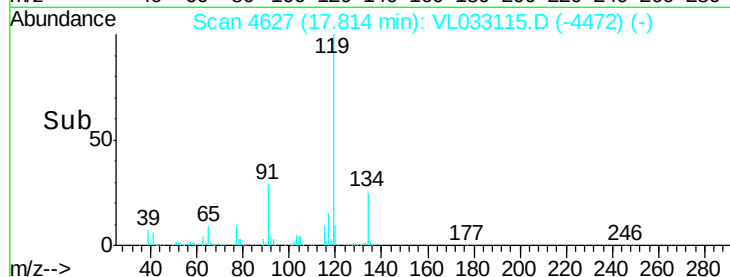
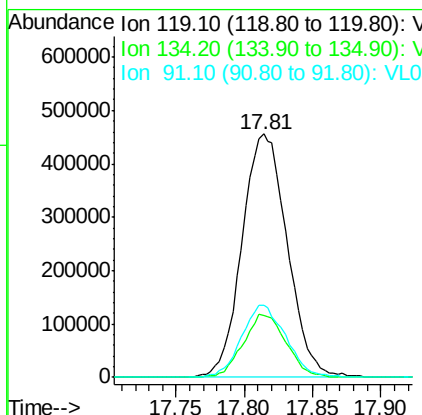
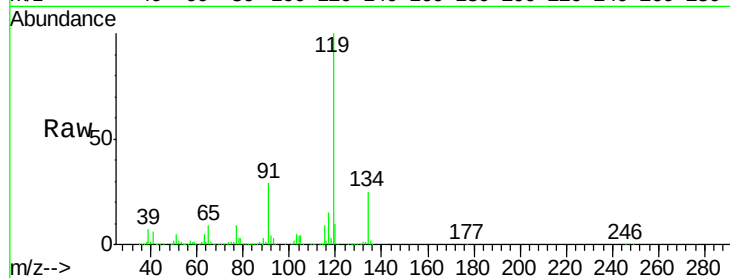
#69
 p-Isopropyltoluene
 Concen: 2.151 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.4	30.6
91	29.0	22.8	34.2

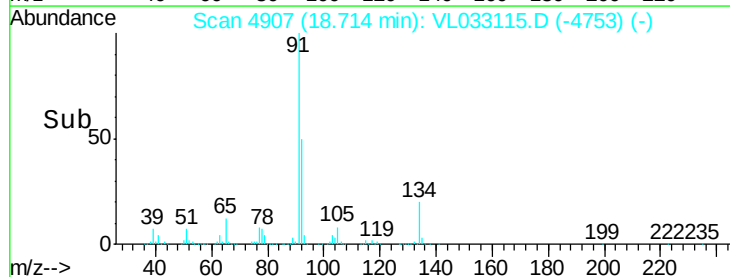
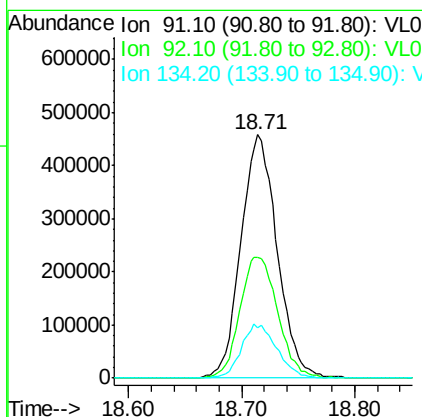
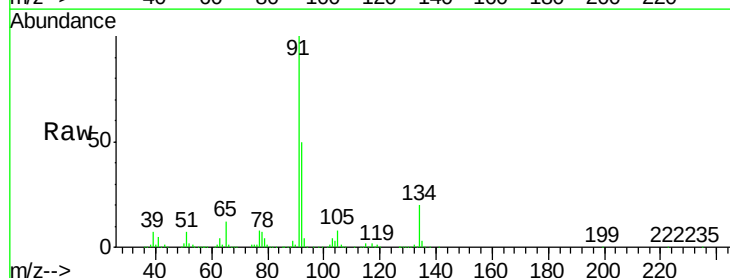
Manual Integrations
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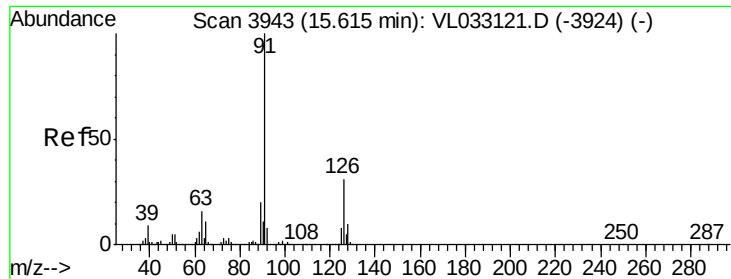
apatel
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#70
 n-Butylbenzene
 Concen: 2.087 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

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





#71

2-Chlorotoluene

Concen: 2.186 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 733130

Ion Ratio Lower Upper

91 100

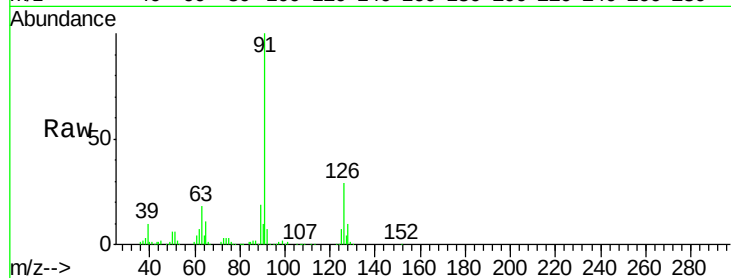
126 30.2 12.4 49.8

Manual Integrations

APPROVED

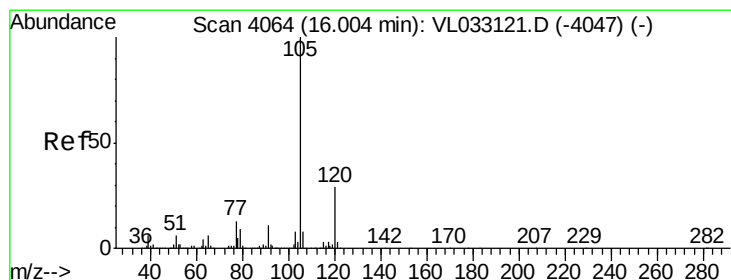
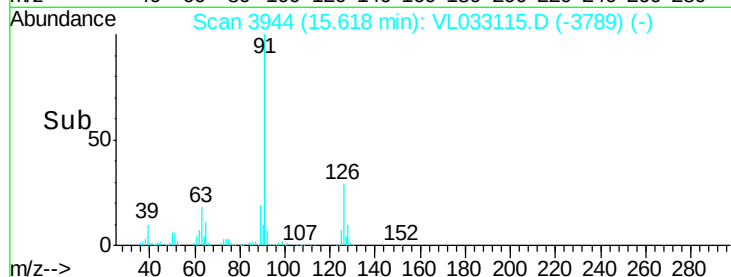
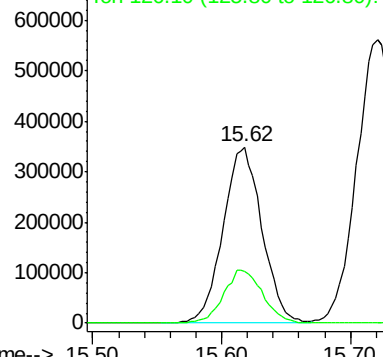
apatel

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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: 2.143 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion: 105 Resp: 782550

Ion Ratio Lower Upper

105 100

120 29.1 23.5 35.3

91 13.0 10.3 15.5

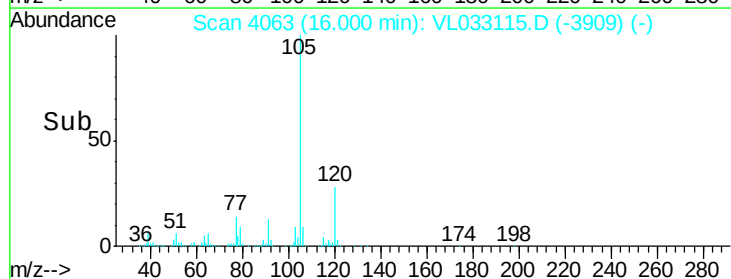
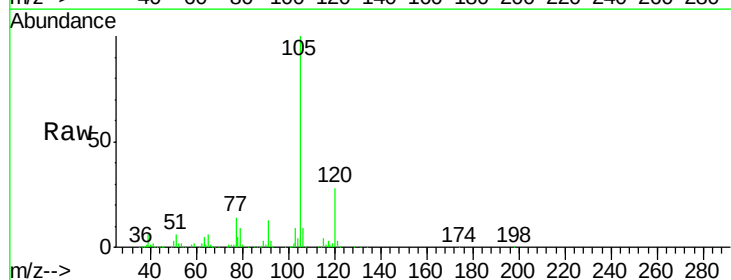
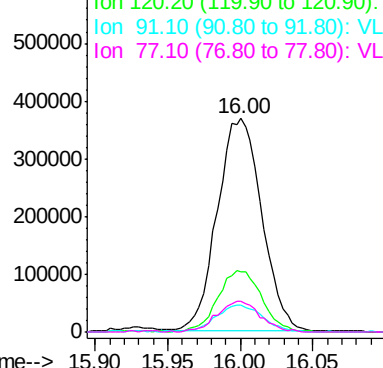
77 14.2 11.0 16.4

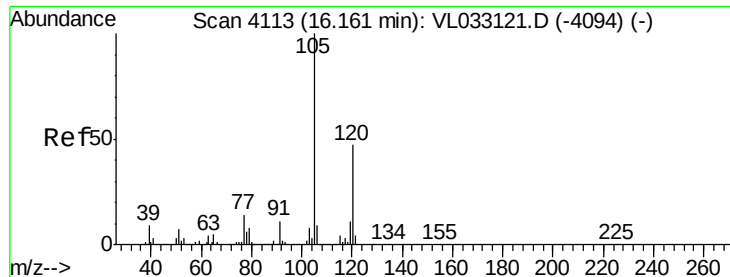
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 2.090 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 753203

Ion Ratio Lower Upper

105 100

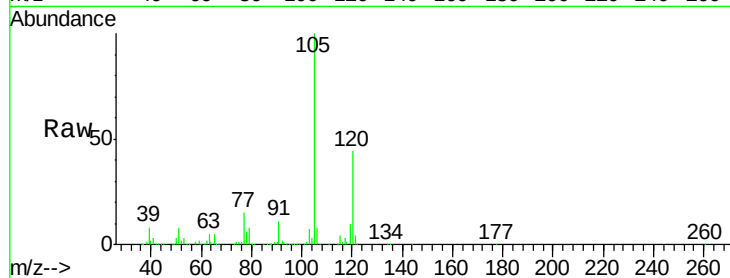
120 44.0 37.5 56.3

Manual Integrations

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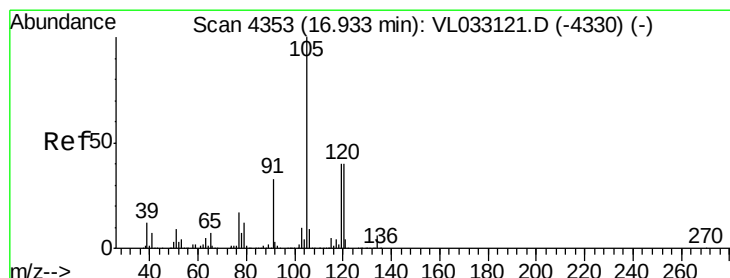
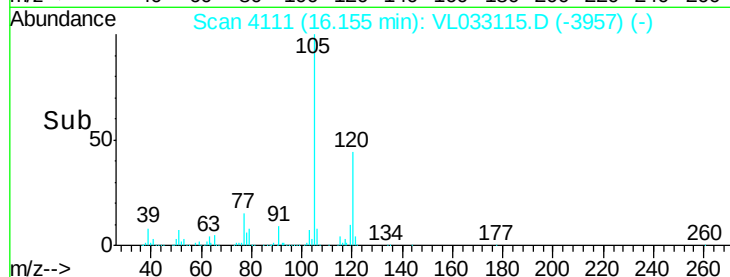
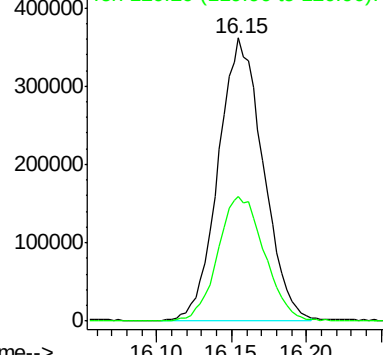
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.038 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion:105 Resp: 813328

Ion Ratio Lower Upper

105 100

120 49.5 37.9 56.9

91 52.1 39.8 59.8

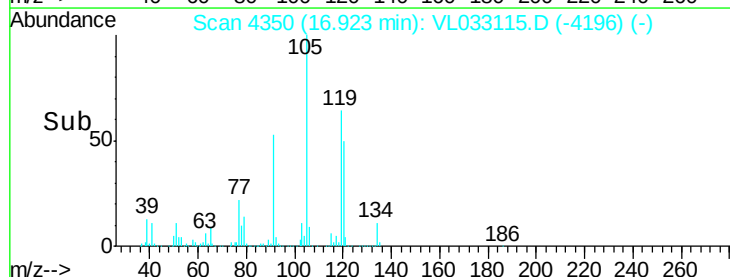
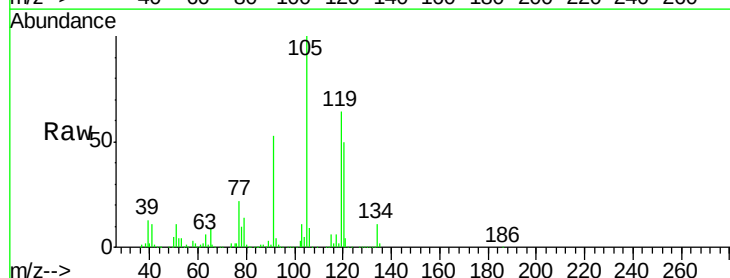
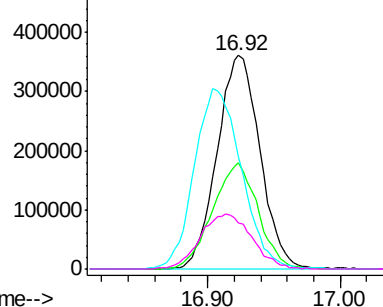
77 21.7 17.8 26.8

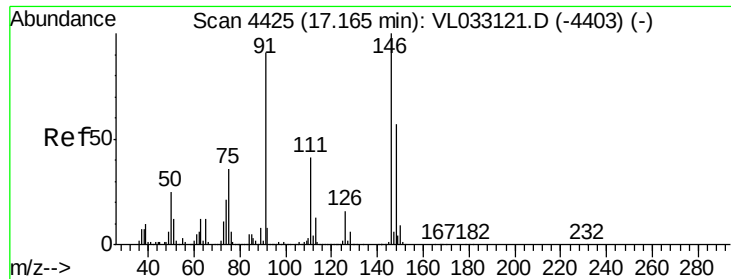
Abundance Ion 105.10 (104.80 to 105.80): V

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





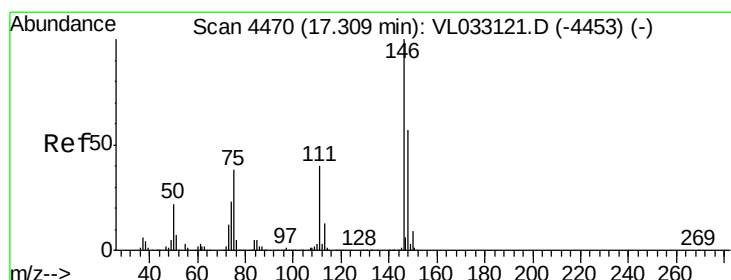
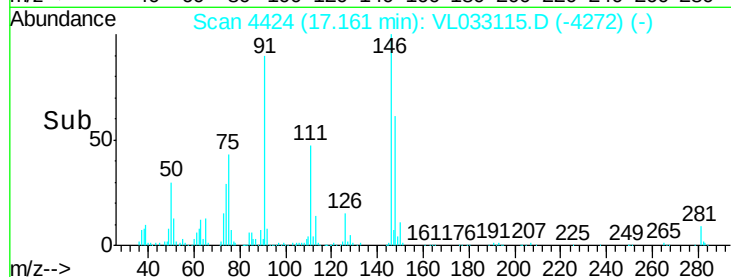
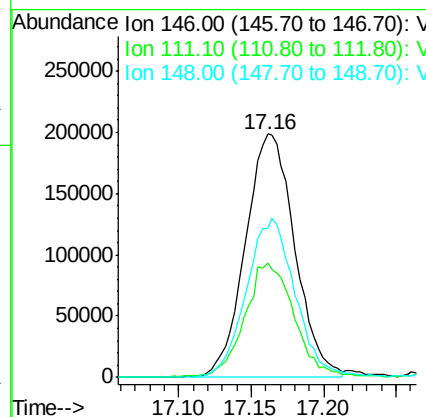
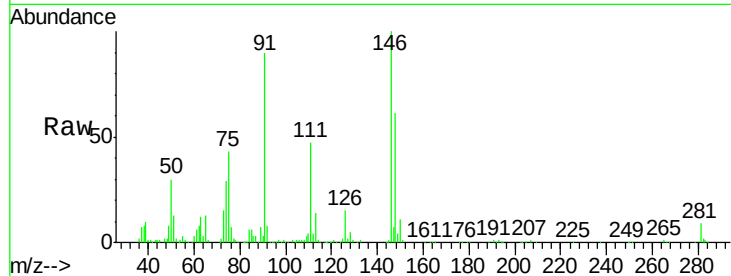
#75
 1,3-Dichlorobenzene
 Concen: 1.987 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.01 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.4	70.0
148	65.5	32.1	96.3

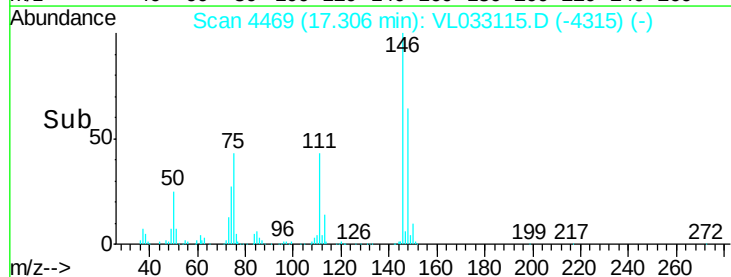
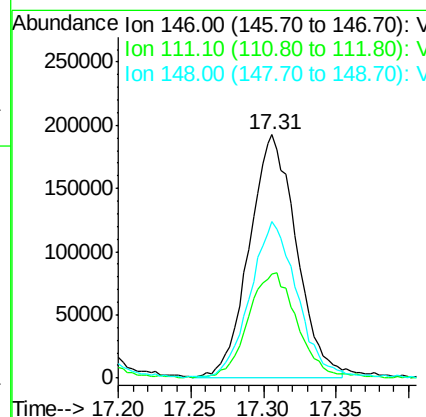
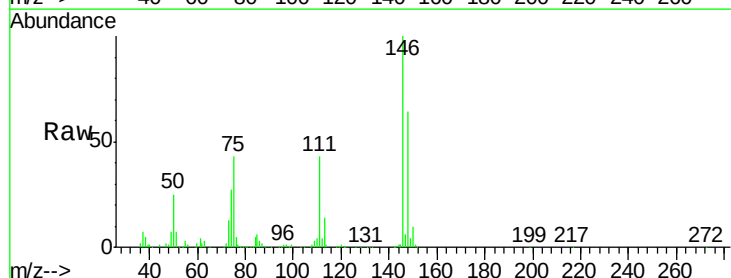
Manual Integrations
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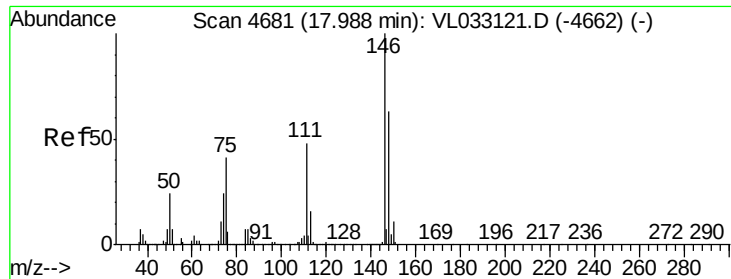
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#76
 1,4-Dichlorobenzene
 Concen: 2.016 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.9	22.7	68.0
148	66.0	32.1	96.3





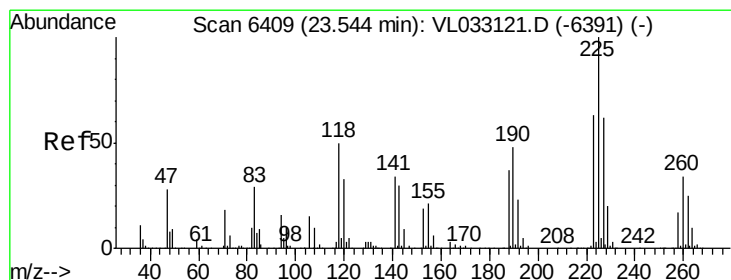
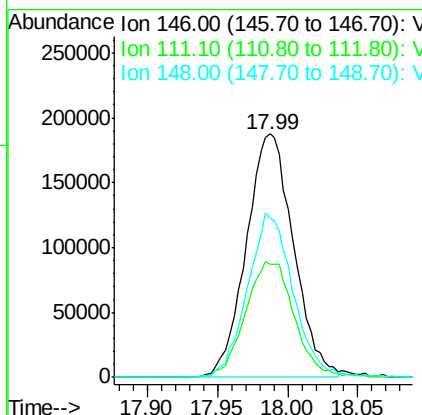
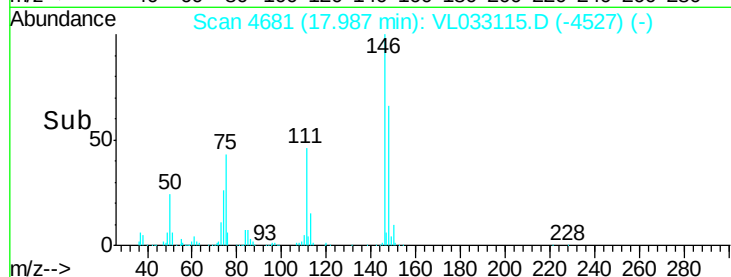
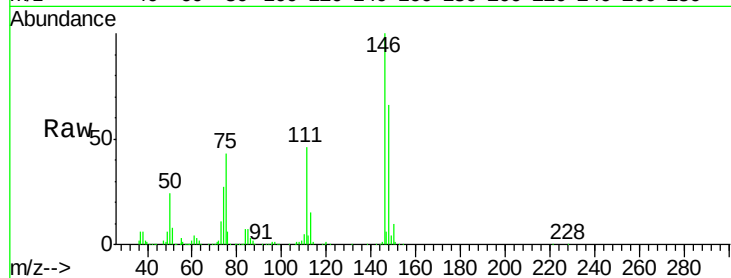
#77
 1,2-Dichlorobenzene
 Concen: 2.067 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.4	73.2
148	65.8	32.6	97.7

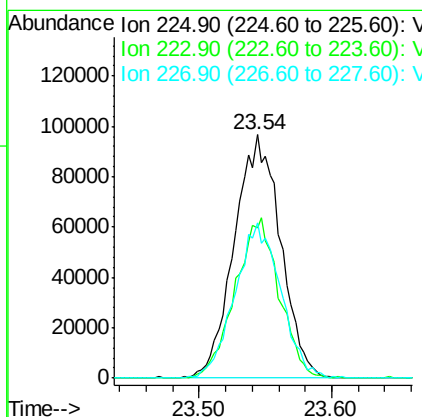
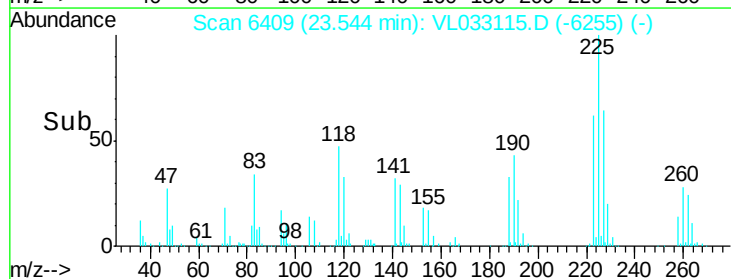
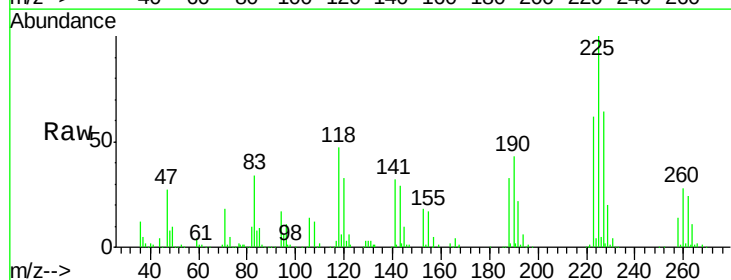
Manual Integrations
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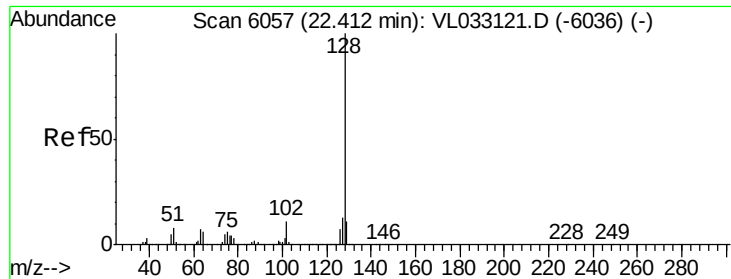
apatel
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.441 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.5	75.7
227	62.8	51.0	76.4





#79

Naphthalene

Concen: 1.539 ppbv m

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Instrument :

MSVOA_L

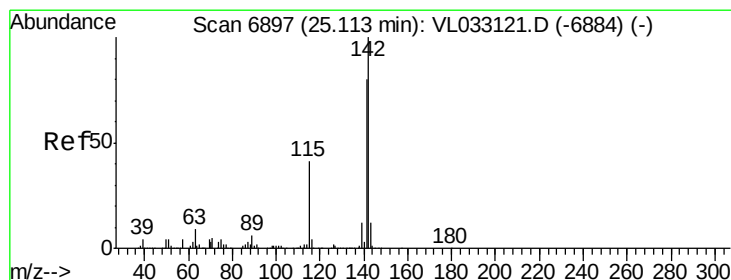
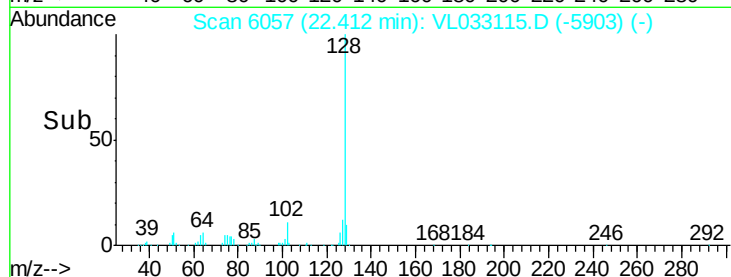
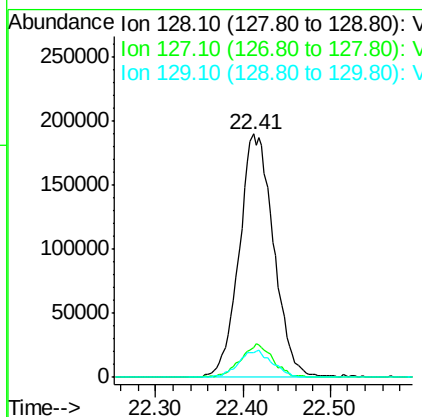
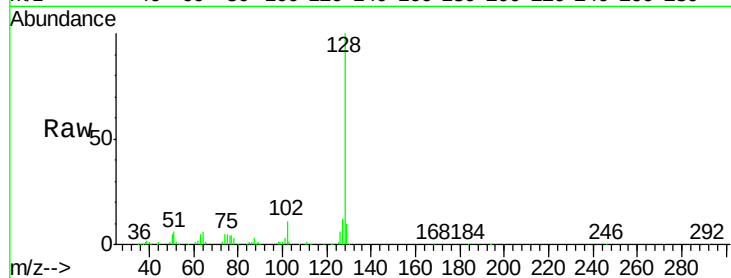
ClientSampleId :

VSTDIC002

Tot Ion:	128	Resp:	517503
Ion Ratio		Lower	Upper
128	100		
127	12.1	10.6	15.8
129	10.0	9.2	13.8

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 1.069 ppbv

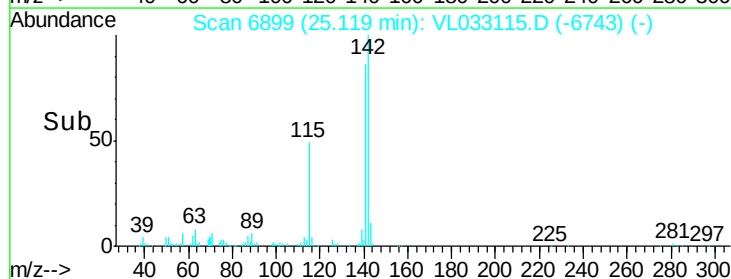
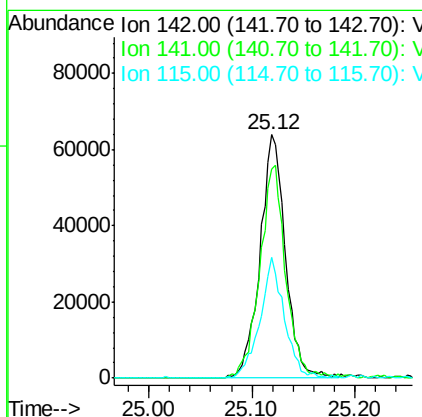
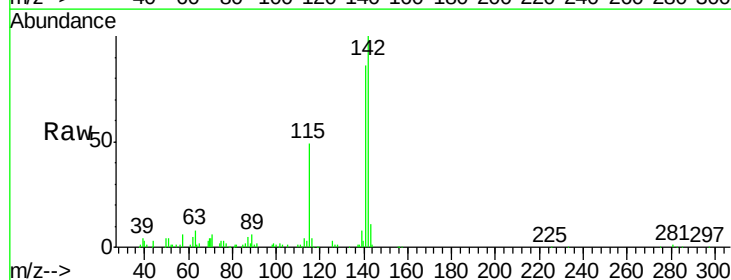
RT: 25.12 min Scan# 6899

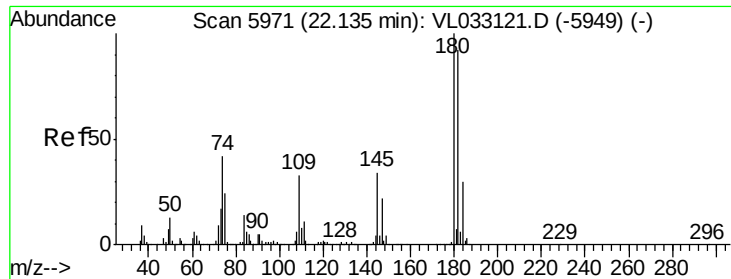
Delta R.T. 0.00 min

Lab File: VL033115.D

Acq: 28 Jan 2019 16:22

Tgt Ion:	142	Resp:	109080
Ion Ratio		Lower	Upper
142	100		
141	89.8	67.4	101.2
115	47.9	34.9	52.3





#81
 1,2,4-Trichlorobenzene
 Concen: 1.561 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033115.D
 Acq: 28 Jan 2019 16:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	253440		
182	95.4		76.5	114.7
184	30.6		24.2	36.4

Manual Integrations
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