

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034512.D
 Acq On : 30 Dec 2019 12:20
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:43 AM

Quant Time: Dec 30 14:33:32 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 2019

QLast Update : Mon Dec 30 14:19:57 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1075823	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2143952	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2085904	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1774260	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	125141	0.643 ppbv	93
3) Chlorodifluoromethane	2.95	51	72271	0.538 ppbv	99
4) Chloromethane	3.11	50	42582	0.538 ppbv	94
5) Vinyl Chloride	3.23	62	36827	0.496 ppbv	99
6) Bromomethane	3.45	94	19867	0.532 ppbv	87
7) Chloroethane	3.53	64	13655	0.507 ppbv	100
8) Dichlorotetrafluoroethane	3.16	85	93947	0.538 ppbv	99
9) Propene	2.98	41	25885m	0.434 ppbv	
10) Heptane	8.15	43	59286	0.385 ppbv	100
11) Trichlorofluoromethane	3.93	101	110202	0.569 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	66894	0.520 ppbv	95
13) Ethanol	3.58	45	8154m	0.491 ppbv	
14) Bromoethene	3.72	108	27392m	0.524 ppbv	
15) Acetone	3.84	43	94692	0.615 ppbv	98
16) 1,3-Butadiene	3.30	39	28448	0.424 ppbv	98
17) tert-Butyl alcohol	4.29	59	71192	0.550 ppbv	100
18) 1,1-Dichloroethene	4.28	96	27642m	0.491 ppbv	
19) Isopropyl Alcohol	3.96	45	58544m	0.593 ppbv	
20) Methylene Chloride	4.33	84	36133	0.661 ppbv	91
21) Allyl Chloride	4.40	41	45648	0.495 ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	28378	0.500 ppbv	85
23) Vinyl Acetate	5.07	43	87405	0.434 ppbv	99
24) 1,1-Dichloroethane	5.00	63	77546m	0.502 ppbv	
25) Ethyl Acetate	5.69	43	125299	0.456 ppbv	99
26) Hexane	5.69	57	51088	0.432 ppbv	88
27) Carbon Disulfide	4.54	76	59921	0.466 ppbv	95
28) Methyl tert-Butyl Ether	5.04	73	80455	0.411 ppbv	95
29) Chloroform	5.75	83	93604	0.489 ppbv	98
30) Cyclohexane	7.15	84	38499m	0.431 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	48990m	0.401 ppbv	
32) 1,1,1-Trichloroethane	6.52	97	96471	0.538 ppbv	95
34) 2-Butanone	5.25	43	74918	0.425 ppbv	97
35) Carbon Tetrachloride	7.04	117	92870	0.504 ppbv	86
36) Benzene	6.90	78	89252	0.416 ppbv	97
37) 1,2-Dichloroethane	6.32	62	80639m	0.506 ppbv	
38) Trichloroethene	7.86	130	39209m	0.446 ppbv	
39) 1,2-Dichloropropane	7.63	63	35122	0.425 ppbv #	85
40) 1,4-Dioxane	7.89	88	16199m	0.449 ppbv	
41) Tetrahydrofuran	6.07	42	32525	0.329 ppbv	98
42) Bromodichloromethane	7.81	83	95631m	0.480 ppbv	
43) Methyl Methacrylate	8.04	69	32770	0.369 ppbv	93

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Manual Integrations
 APPROVED

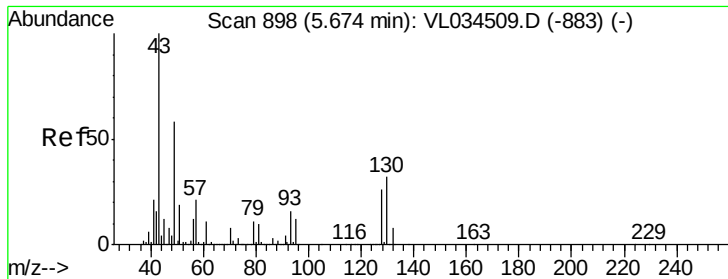
apatel
 1/2/2020 10:48:43 AM

Quant Time: Dec 30 14:33:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30
 QLast Update : Mon Dec 30 14:19:57 2019
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.89	57	173415	0.443	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	40287m	0.353	ppbv	
46) cis-1,3-Dichloropropene	8.74	75	47636m	0.372	ppbv	
47) 1,1,2-Trichloroethane	9.51	97	45652m	0.497	ppbv	
48) Dibromochloromethane	10.34	129	64468	0.409	ppbv	92
49) Bromoform	13.09	173	59517m	0.423	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	103620	0.406	ppbv	96
51) 2-Hexanone	10.19	43	79514m	0.372	ppbv	
52) Tetrachloroethene	11.27	164	32123	0.346	ppbv	92
53) Toluene	9.84	91	87968	0.361	ppbv	96
54) 1,2-Dibromoethane	10.65	107	58160m	0.413	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.18	131	54709m	0.536	ppbv	
57) Chlorobenzene	12.19	112	93203	0.494	ppbv #	85
58) Ethyl Benzene	12.76	91	126274	0.390	ppbv	100
59) m/p-Xylene	13.04	91	240539m	0.860	ppbv	
60) o-Xylene	13.74	91	121594m	0.440	ppbv	
61) Styrene	13.58	104	71105	0.356	ppbv	97
62) Isopropylbenzene	14.72	105	161895	0.442	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.73	83	104443m	0.502	ppbv	
64) n-propylbenzene	15.61	120	39657m	0.417	ppbv	
65) tert-Butylbenzene	16.80	119	142127m	0.432	ppbv	
66) Benzyl Chloride	17.04	91	53753m	0.425	ppbv	
67) sec-Butylbenzene	17.35	105	199679m	0.434	ppbv	
69) p-Isopropyltoluene	17.72	119	153707m	0.403	ppbv	
70) n-Butylbenzene	18.61	91	172042	0.419	ppbv	93
71) 2-Chlorotoluene	15.51	91	117098	0.401	ppbv	98
72) 4-Ethyltoluene	15.89	105	129216	0.404	ppbv	97
73) 1,3,5-Trimethylbenzene	16.05	105	129077	0.413	ppbv	92
74) 1,2,4-Trimethylbenzene	16.82	105	146448m	0.441	ppbv	
75) 1,3-Dichlorobenzene	17.05	146	96350m	0.504	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	87064m	0.469	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	87657m	0.475	ppbv	
78) Hexachloro-1,3-Butadiene	23.44	225	83185m	0.525	ppbv	
79) Naphthalene	22.30	128	81181m	0.282	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	12192	0.094	ppbv	92
81) 1,2,4-Trichlorobenzene	22.02	180	63847m	0.361	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034512.D

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MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1075823

Ion Ratio Lower Upper

49 100

128 43.9 22.4 67.2

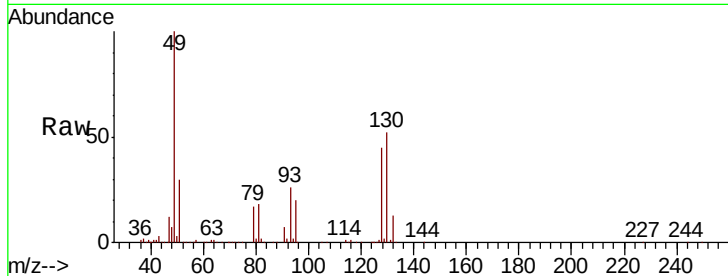
130 55.7 28.3 85.0

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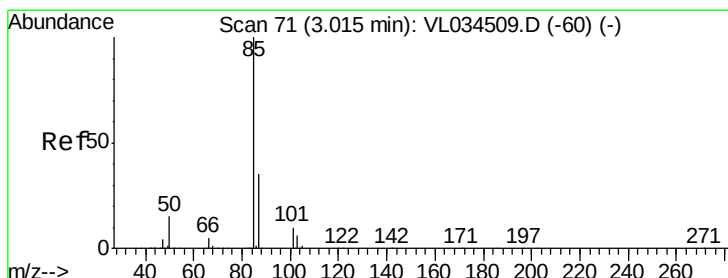
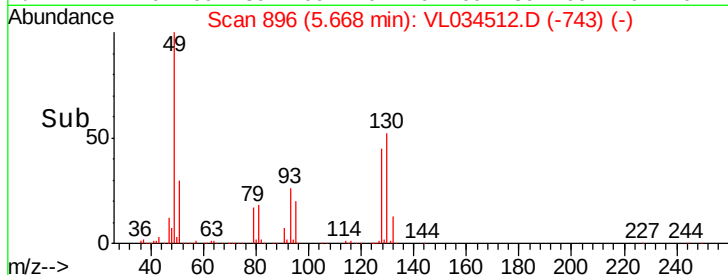
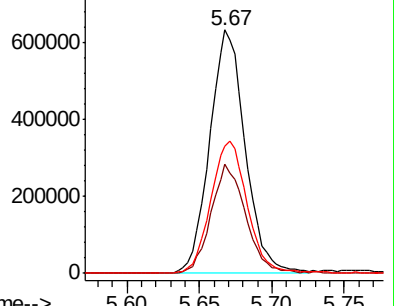
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.643 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL034512.D

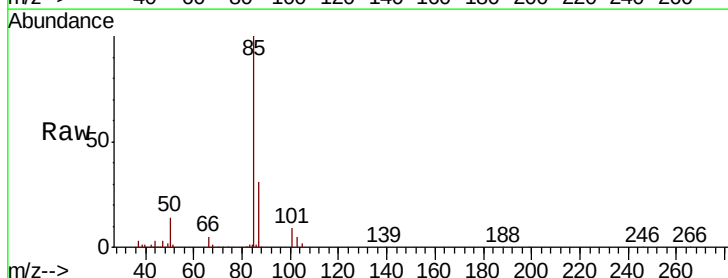
Acq: 30 Dec 2019 12:20

Tgt Ion: 85 Resp: 125141

Ion Ratio Lower Upper

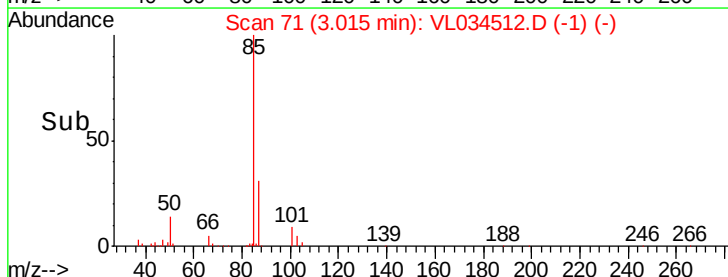
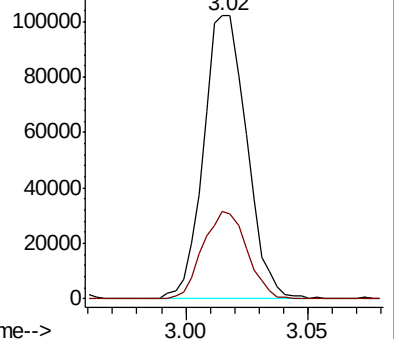
85 100

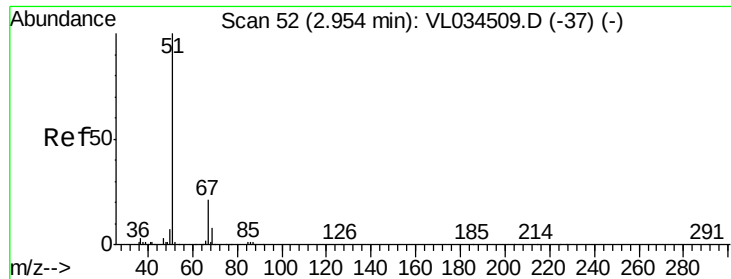
87 30.9 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.538 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 72271

Ion Ratio Lower Upper

51 100

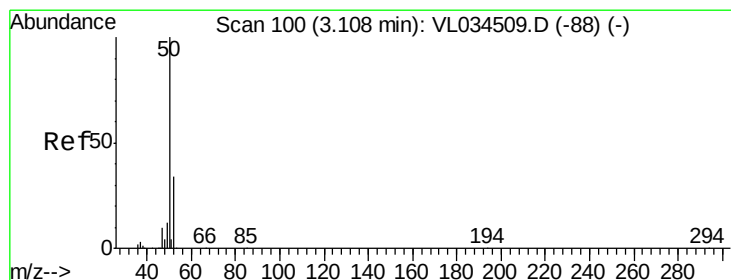
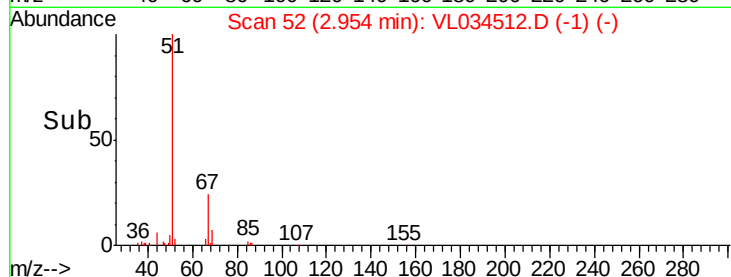
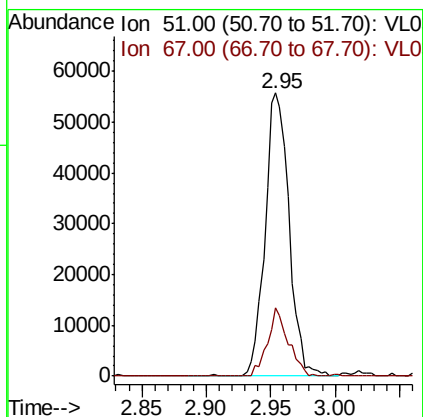
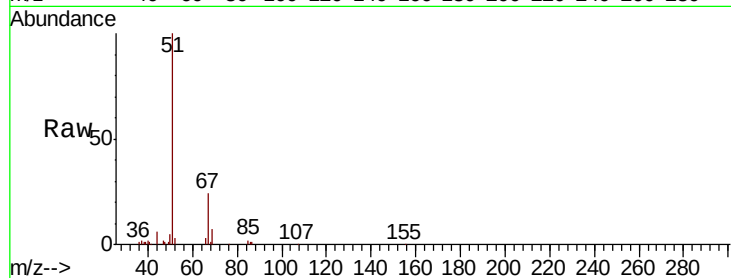
67 20.8 16.8 25.2

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#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034512.D

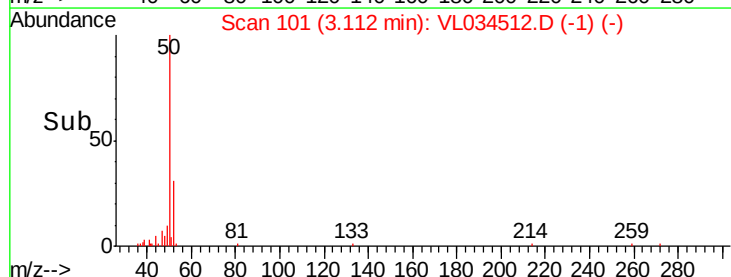
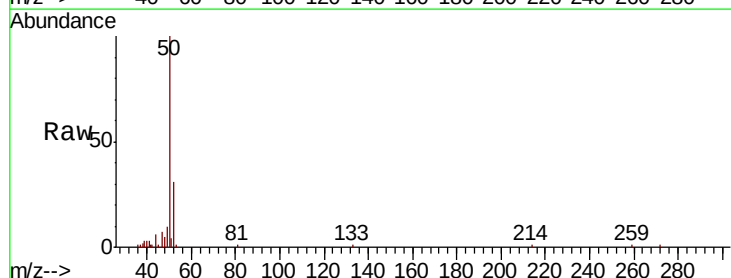
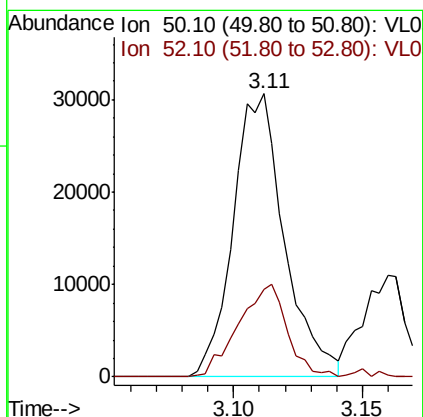
Acq: 30 Dec 2019 12:20

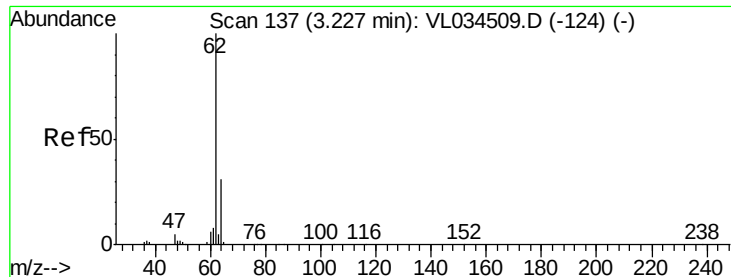
Tgt Ion: 50 Resp: 42582

Ion Ratio Lower Upper

50 100

52 31.1 27.6 41.4





#5

Vinyl Chloride

Concen: 0.496 ppbv

RT: 3.23 min Scan# 138

Delta R.T. 0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 36827

Ion Ratio Lower Upper

62 100

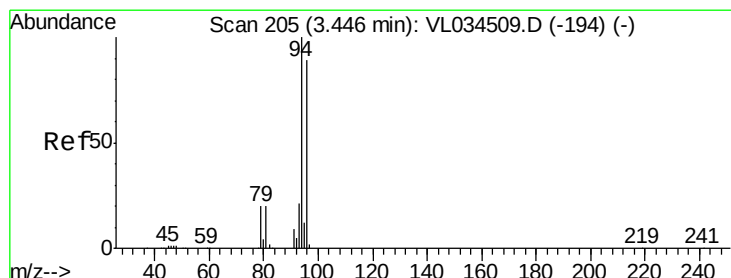
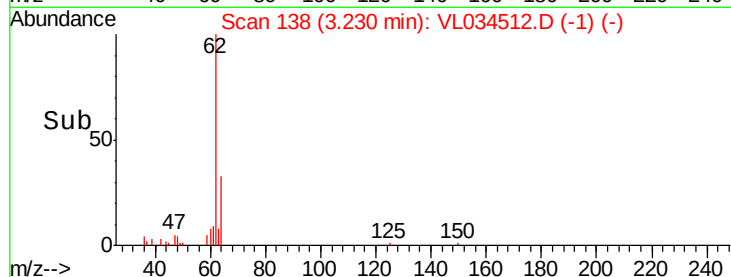
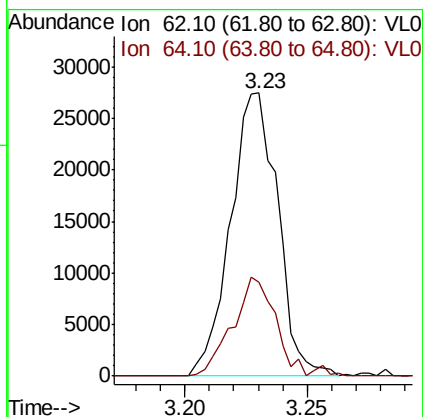
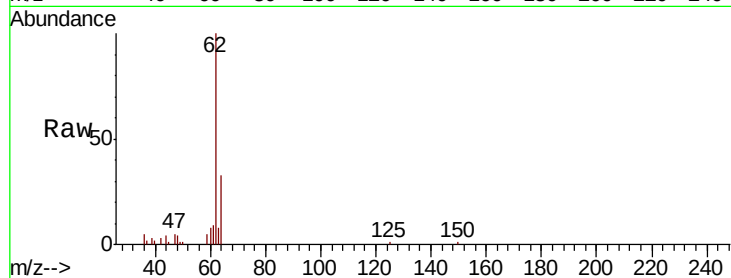
64 30.7 24.9 37.3

Manual Integrations

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#6

Bromomethane

Concen: 0.532 ppbv

RT: 3.45 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL034512.D

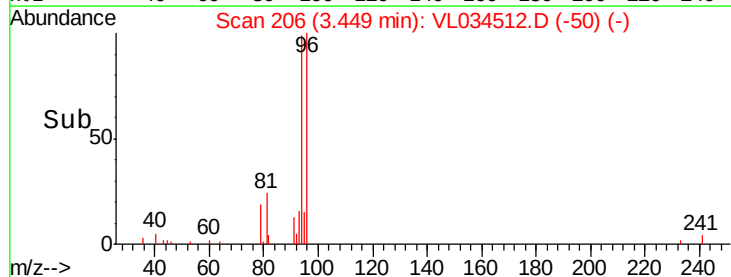
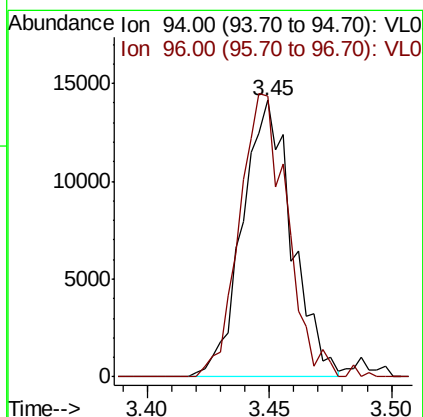
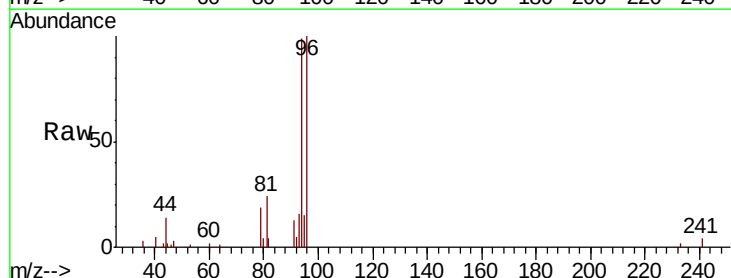
Acq: 30 Dec 2019 12:20

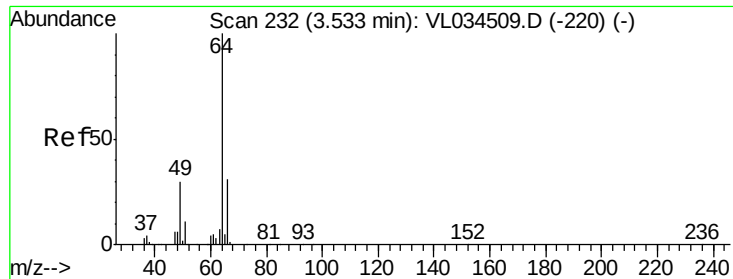
Tgt Ion: 94 Resp: 19867

Ion Ratio Lower Upper

94 100

96 101.4 71.2 106.8





#7

Chloroethane

Concen: 0.507 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 13655

Ion Ratio Lower Upper

64 100

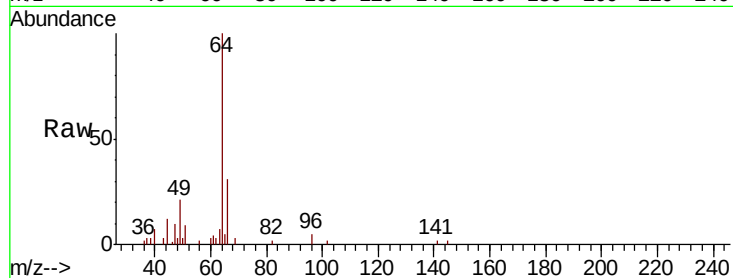
66 31.2 25.0 37.4

Manual Integrations

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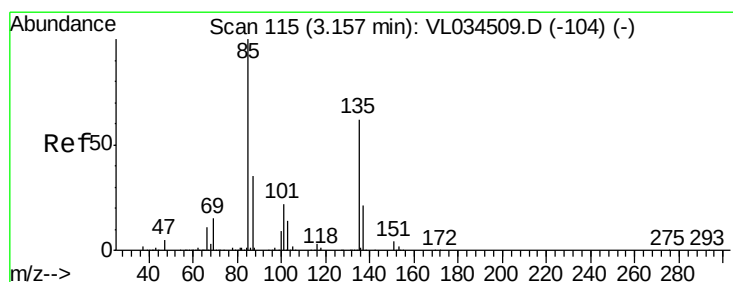
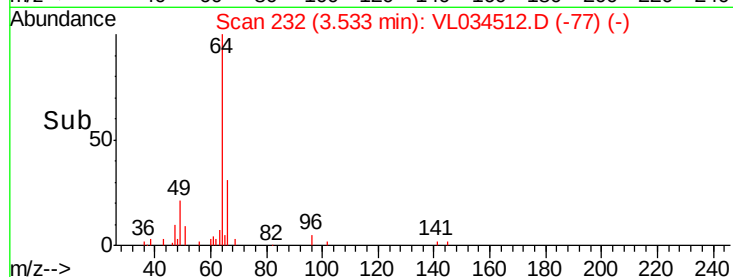
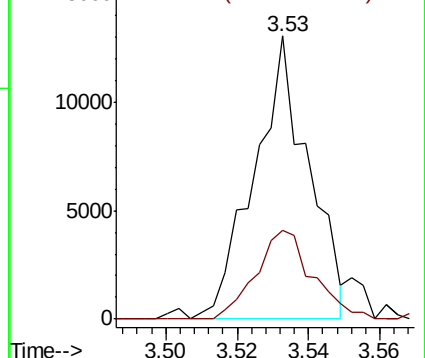
apatel

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.538 ppbv

RT: 3.16 min Scan# 115

Delta R.T. -0.00 min

Lab File: VL034512.D

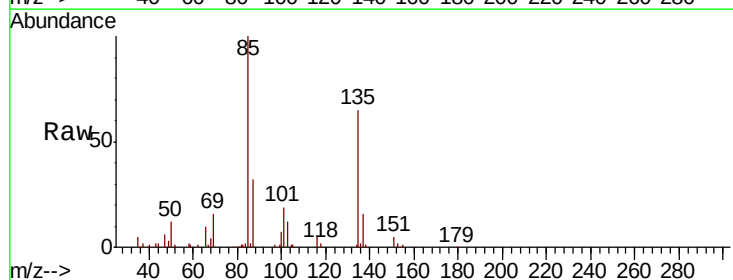
Acq: 30 Dec 2019 12:20

Tgt Ion: 85 Resp: 93947

Ion Ratio Lower Upper

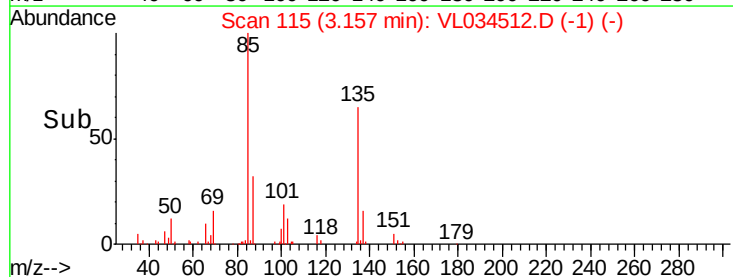
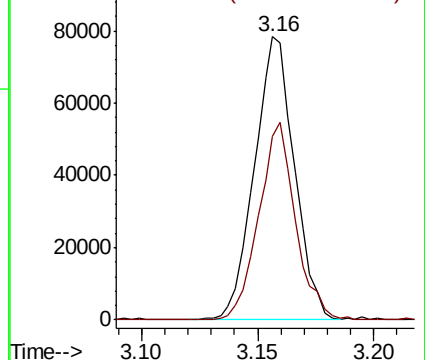
85 100

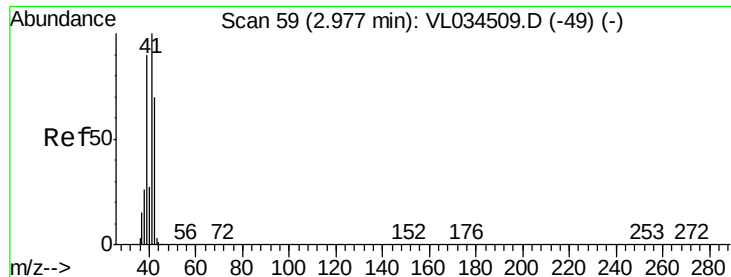
135 64.1 51.8 77.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.434 ppbv m

RT: 2.98 min Scan# 60

Delta R.T. 0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 25885

Ion Ratio Lower Upper

41 100

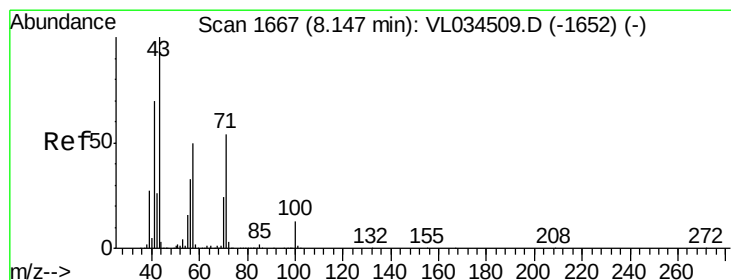
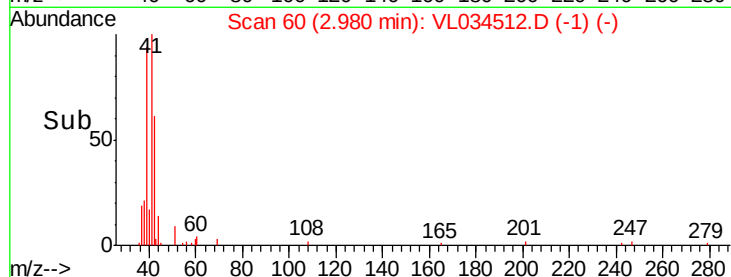
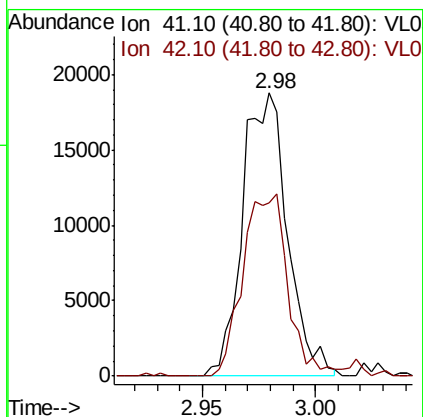
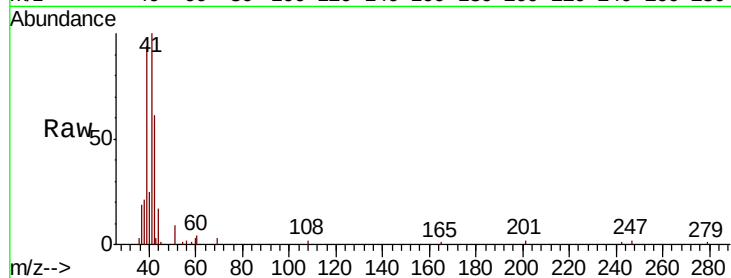
42 0.0 55.8 83.6#

Manual Integrations

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#10

Heptane

Concen: 0.385 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. -0.00 min

Lab File: VL034512.D

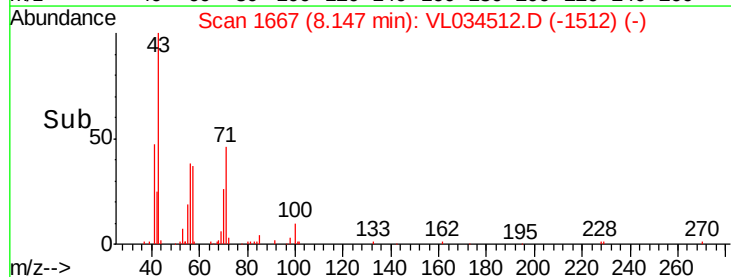
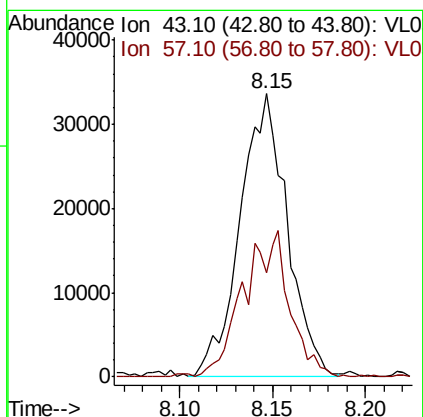
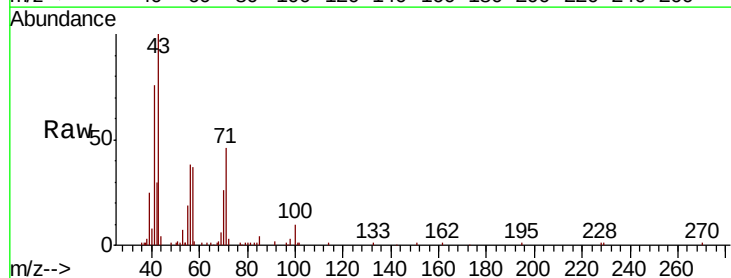
Acq: 30 Dec 2019 12:20

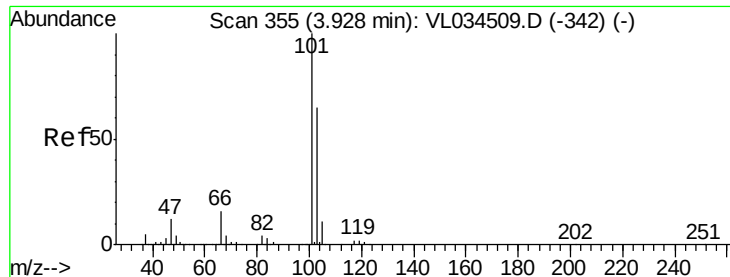
Tgt Ion: 43 Resp: 59286

Ion Ratio Lower Upper

43 100

57 51.2 41.0 61.6





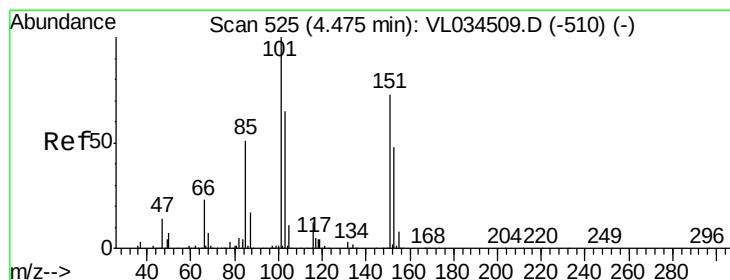
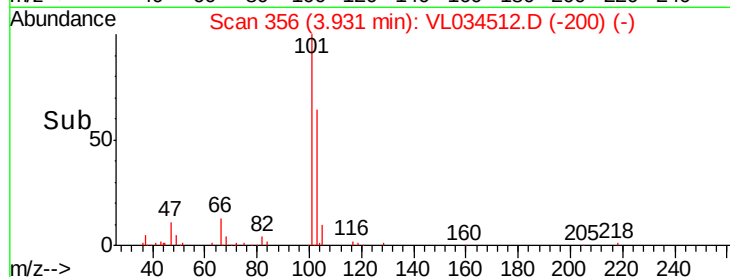
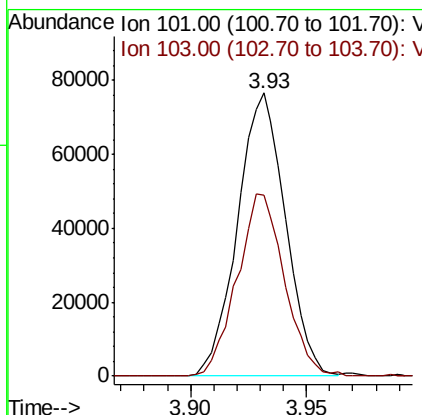
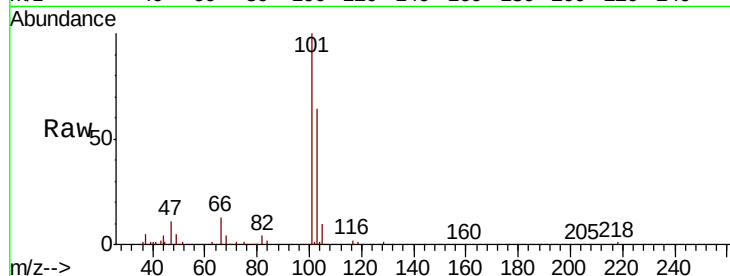
#11
 Trichlorofluoromethane
 Concen: 0.569 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	52.1	78.1

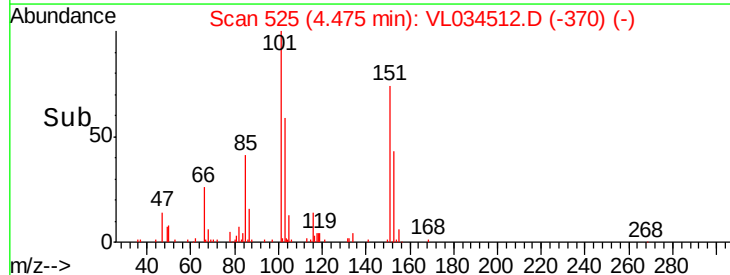
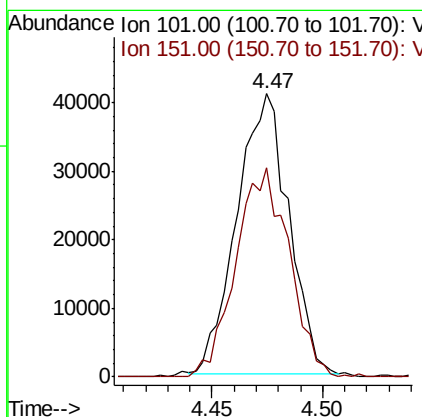
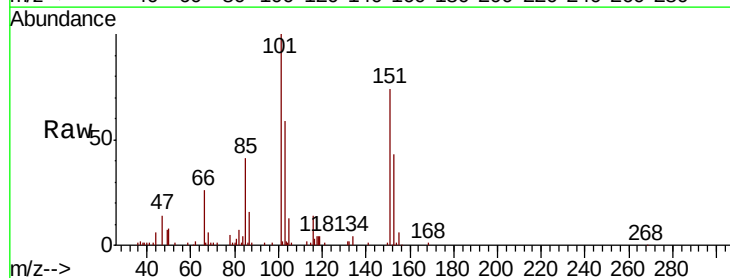
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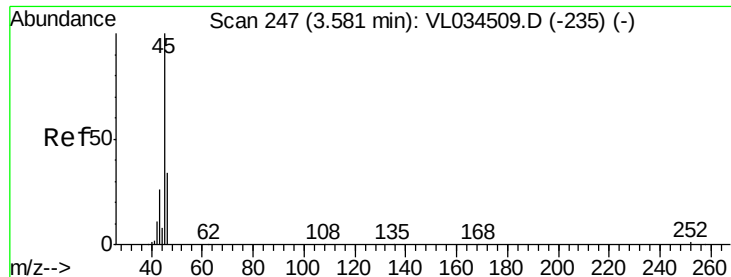
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.520 ppbv
 RT: 4.47 min Scan# 525
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
101	100		
151	76.6	57.8	86.6





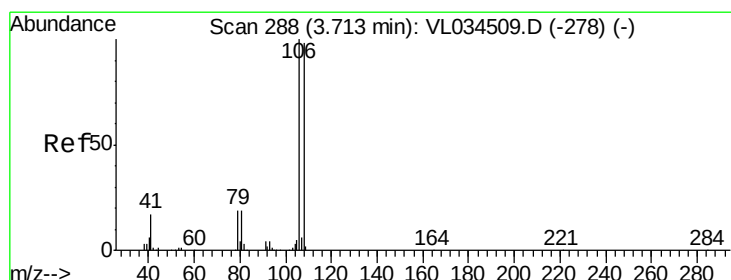
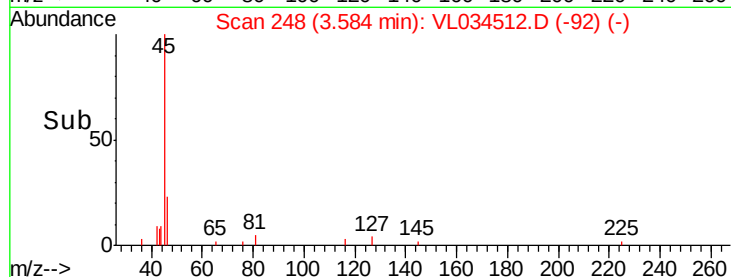
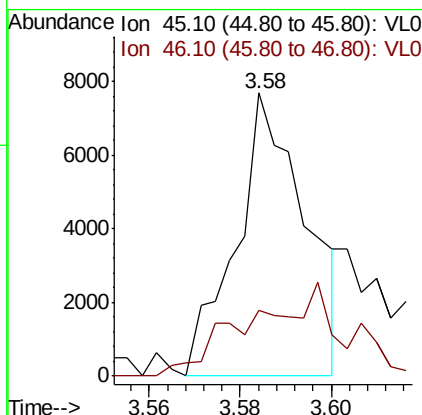
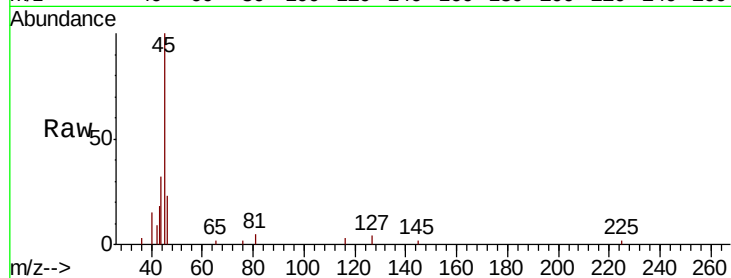
#13
Ethanol
Concen: 0.491 ppbv m
RT: 3.58 min Scan# 248
Delta R.T. 0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	45	46	Ratio	Lower	Upper
8154	100	48.4		14.9	59.7

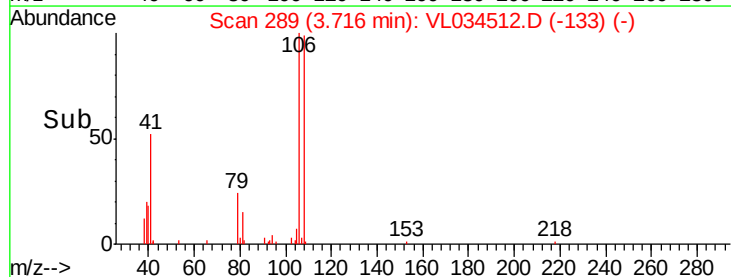
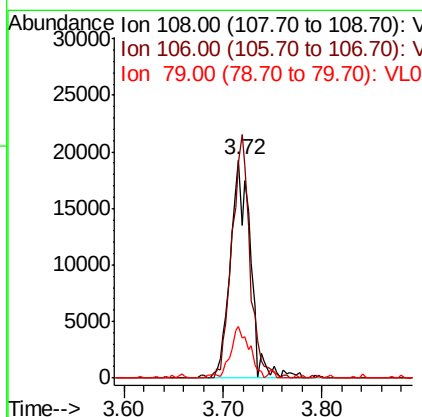
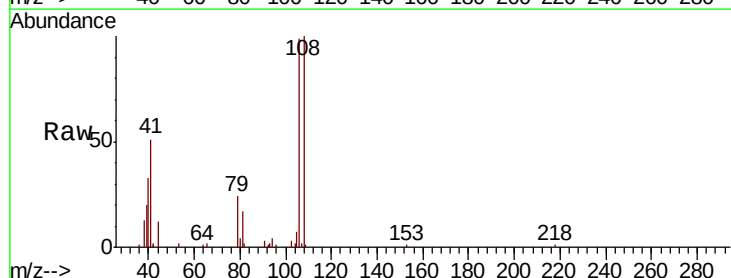
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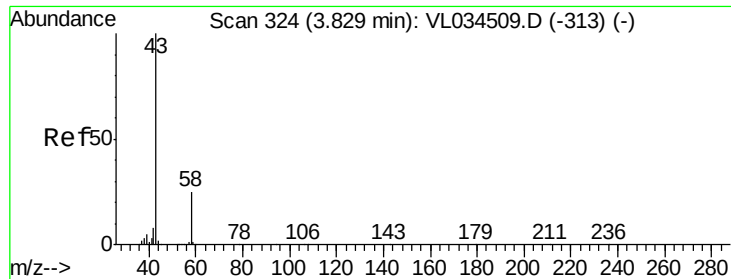
apatel
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#14
Bromoethene
Concen: 0.524 ppbv m
RT: 3.72 min Scan# 289
Delta R.T. 0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	108	106	79	Ratio	Lower	Upper
27392	100	0.0	23.0		85.2	127.8#
					17.4	26.2





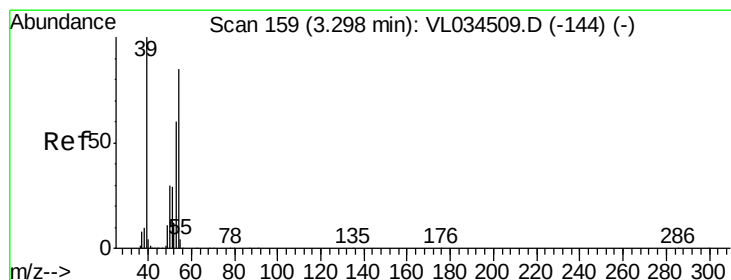
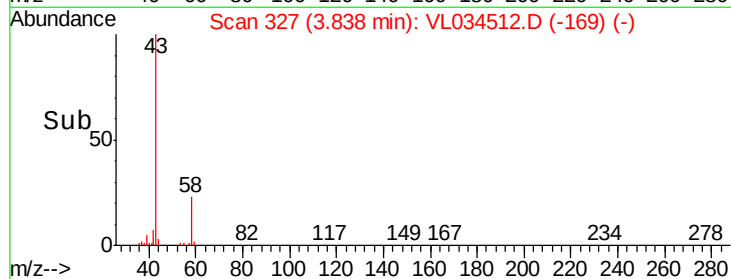
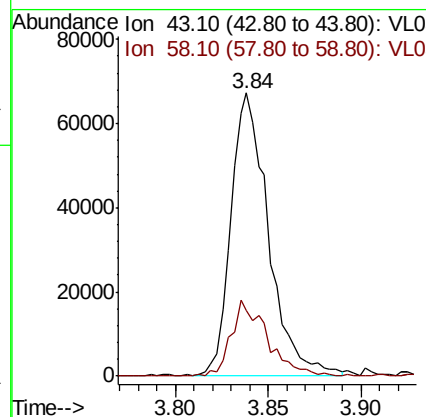
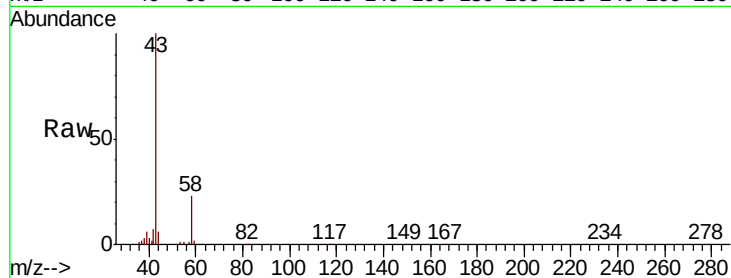
#15
Acetone
Concen: 0.615 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	43	Resp	94692
Ion Ratio	100	Lower	Upper
43	100		
58	26.7	20.4	30.6

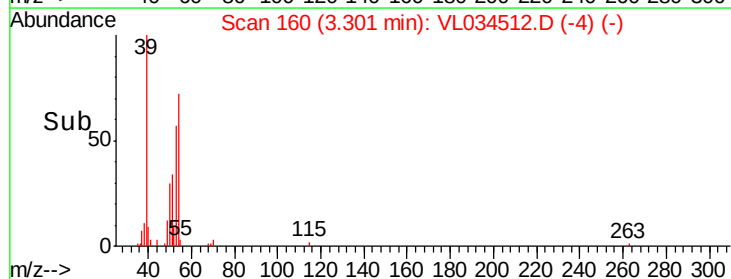
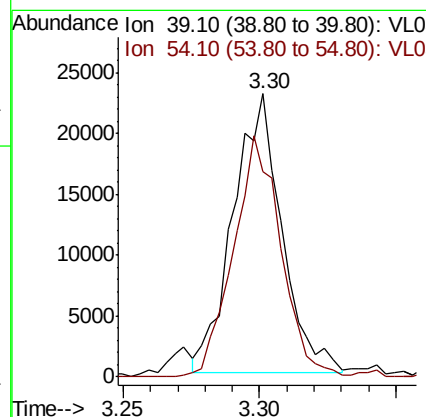
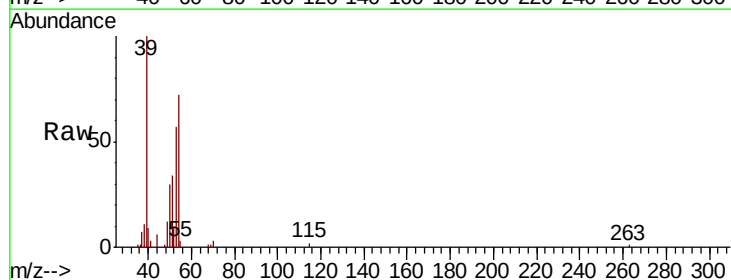
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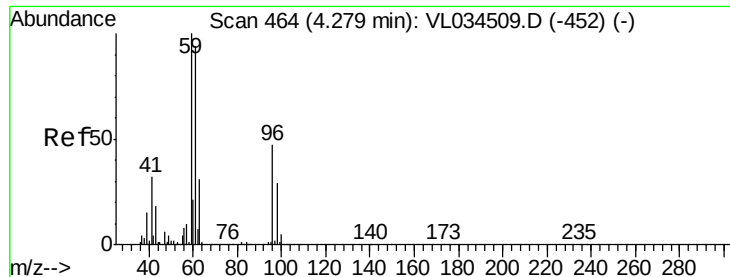
apatel
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#16
1,3-Butadiene
Concen: 0.424 ppbv
RT: 3.30 min Scan# 160
Delta R.T. 0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	39	Resp	28448
Ion Ratio	100	Lower	Upper
39	100		
54	84.8	66.2	99.2





#17

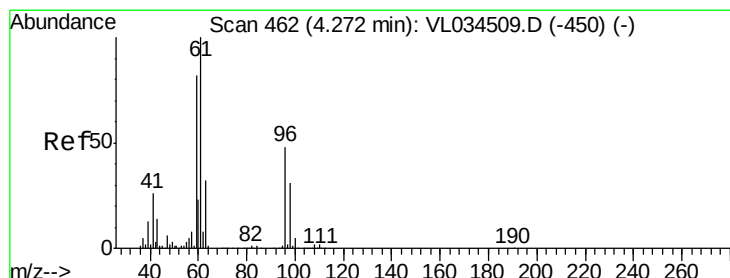
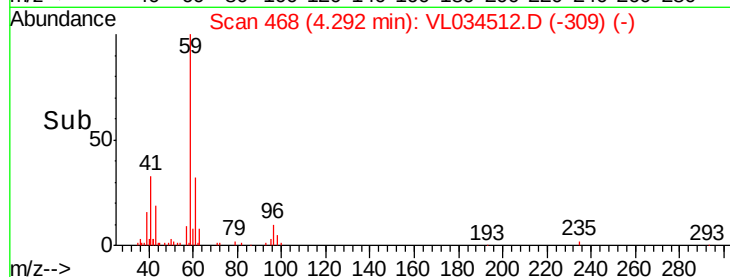
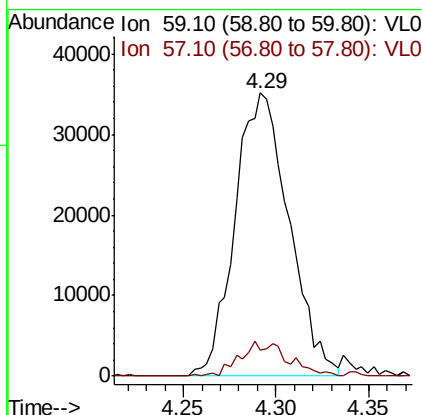
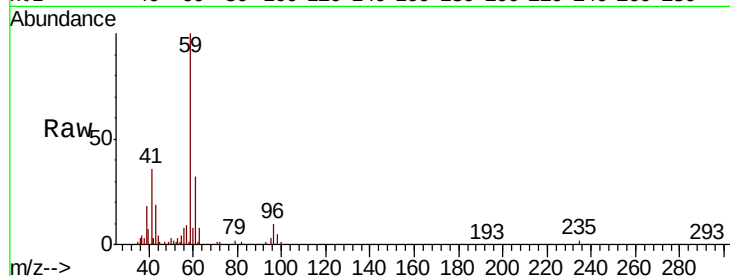
tert-Butyl alcohol
 Concen: 0.550 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. 0.01 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	12.8

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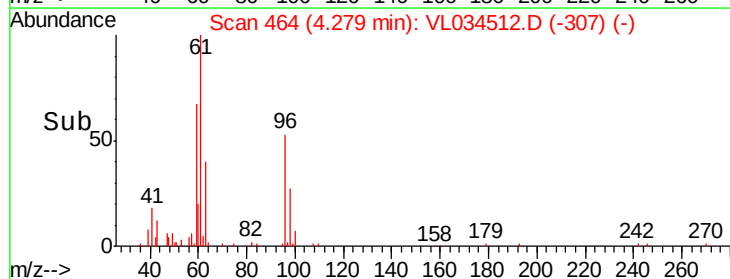
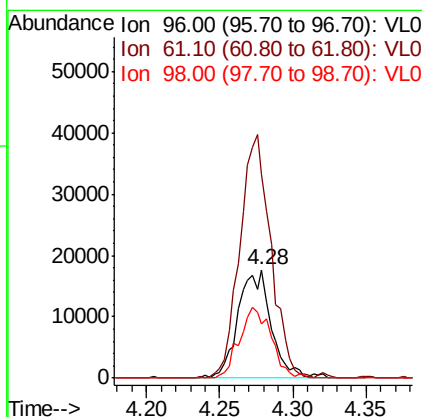
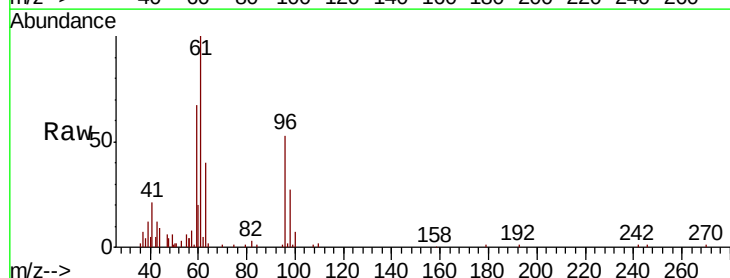
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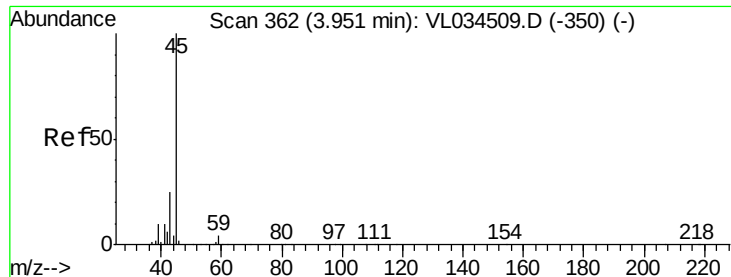


#18

1,1-Dichloroethene
 Concen: 0.491 ppbv m
 RT: 4.28 min Scan# 464
 Delta R.T. 0.01 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	188.0	165.9	248.9
98	49.9	51.9	77.9#





#19

Isopropyl Alcohol

Concen: 0.593 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 58544

Ion Ratio Lower Upper

45 100

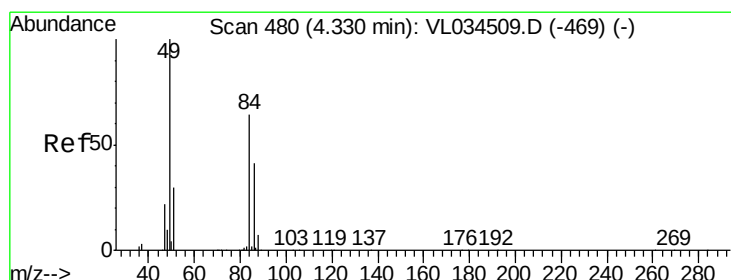
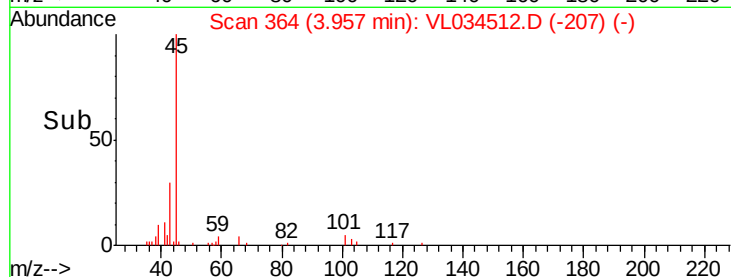
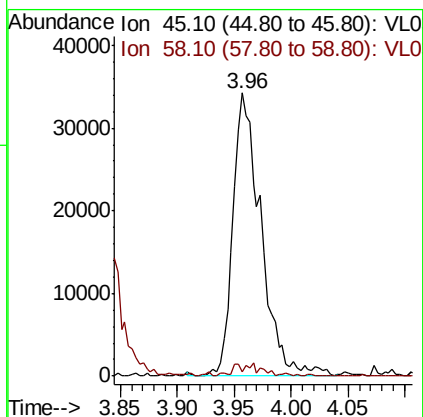
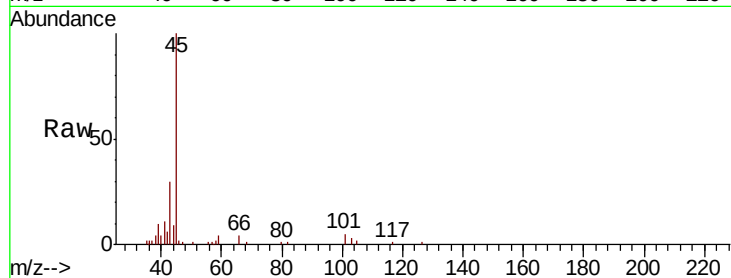
58 5.0 1.4 2.0#

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#20

Methylene Chloride

Concen: 0.661 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion: 84 Resp: 36133

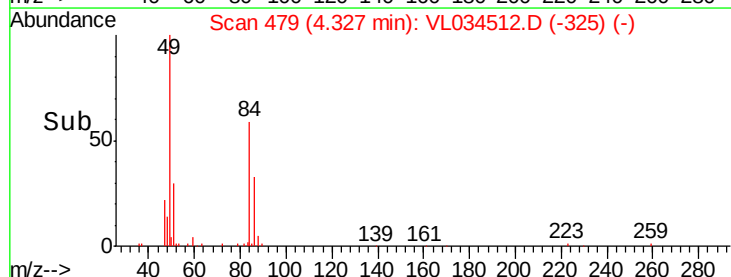
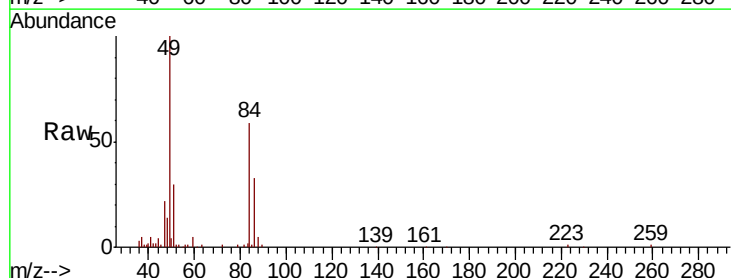
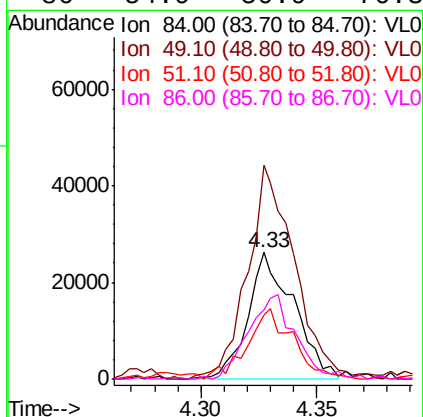
Ion Ratio Lower Upper

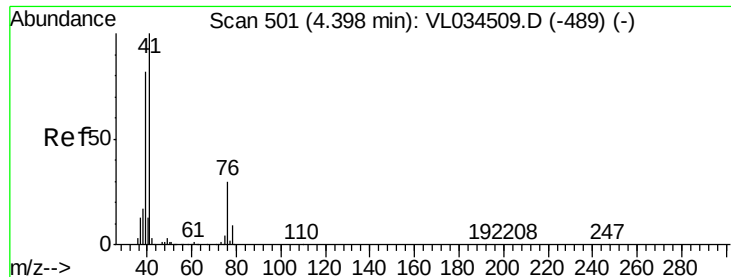
84 100

49 168.9 124.4 186.6

51 47.0 37.0 55.6

86 54.9 50.9 76.3





#21

Allvl Chloride

Concen: 0.495 ppbv

RT: 4.40 min Scan# 501

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

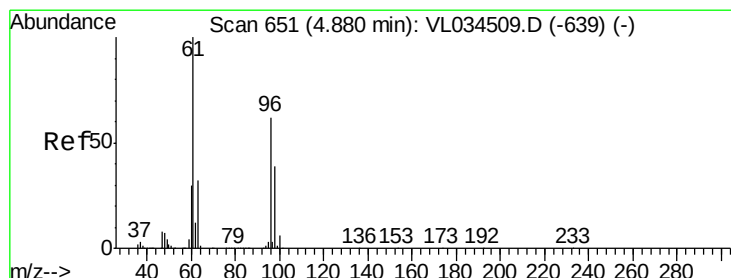
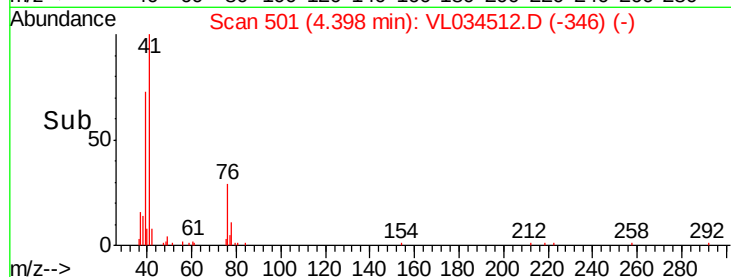
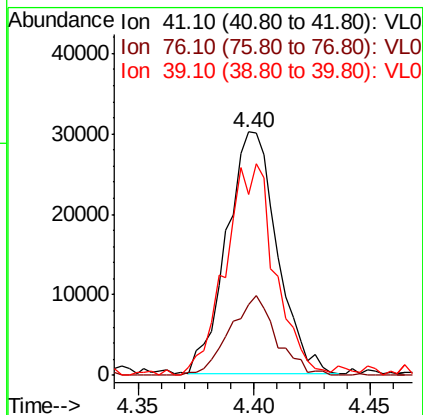
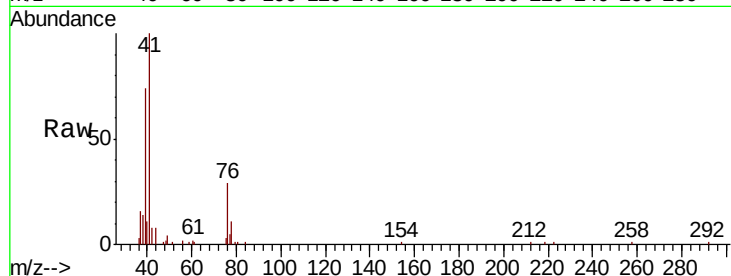
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	45648
Ion Ratio	Lower	Upper	
41	100		
76	30.3	24.2	36.4
39	87.0	65.8	98.6

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#22

trans-1,2-Dichloroethene

Concen: 0.500 ppbv

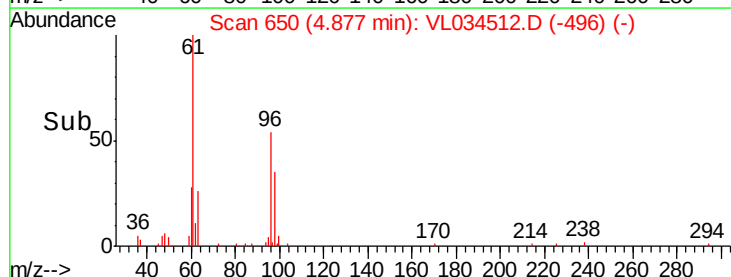
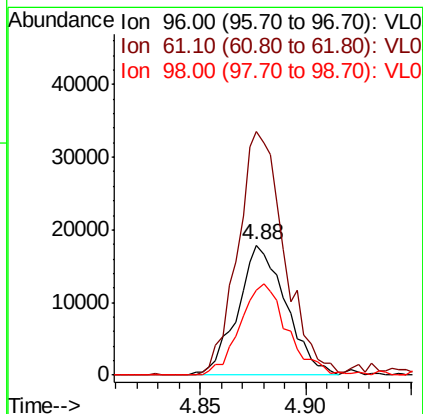
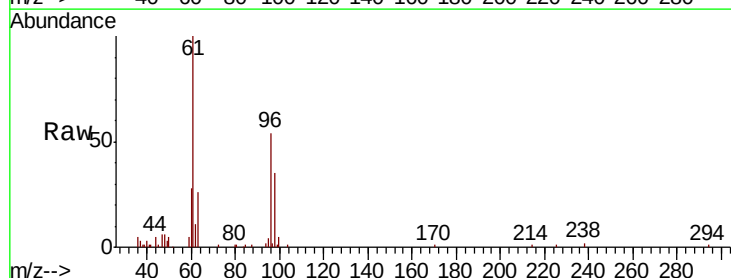
RT: 4.88 min Scan# 650

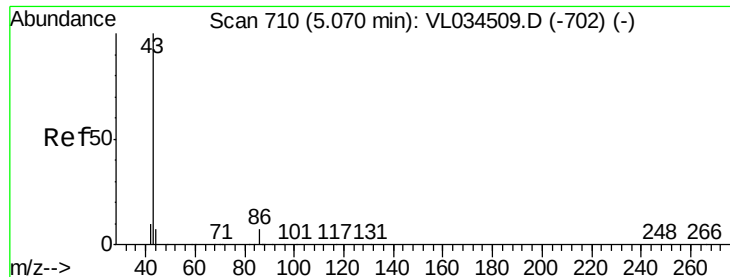
Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion:	96	Resp:	28378
Ion Ratio	Lower	Upper	
96	100		
61	186.8	128.4	192.6
98	65.2	50.6	75.8





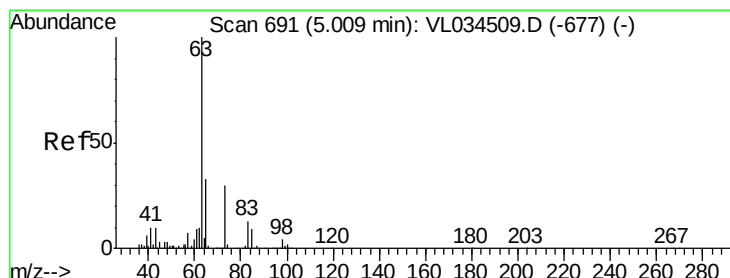
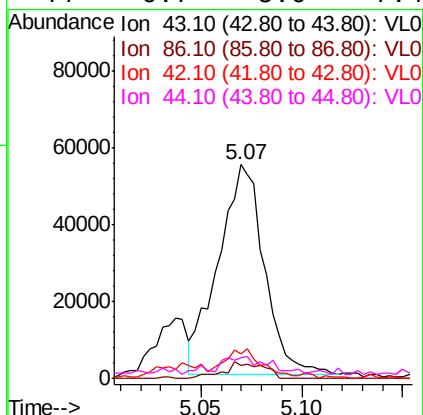
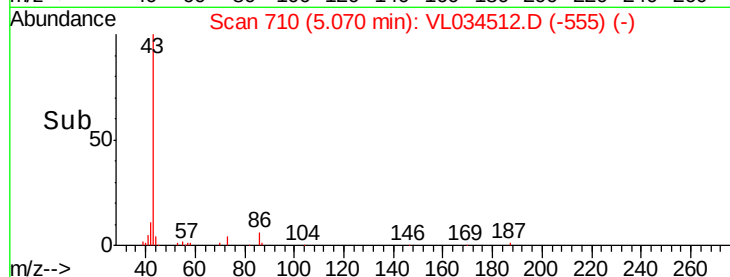
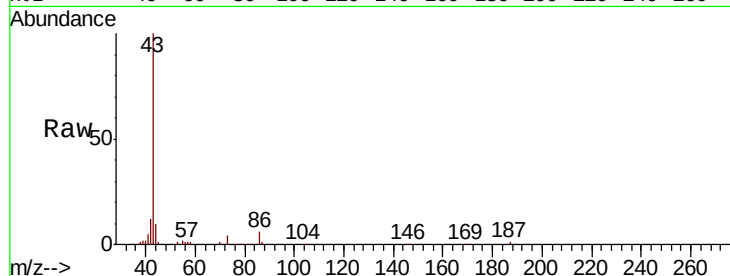
#23
 Vinyl Acetate
 Concen: 0.434 ppbv
 RT: 5.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	43	Resp:	87405
Ion	Ratio	Lower	Upper
43	100		
86	6.1	5.4	8.2
42	11.3	8.9	13.3
44	6.7	5.0	7.4

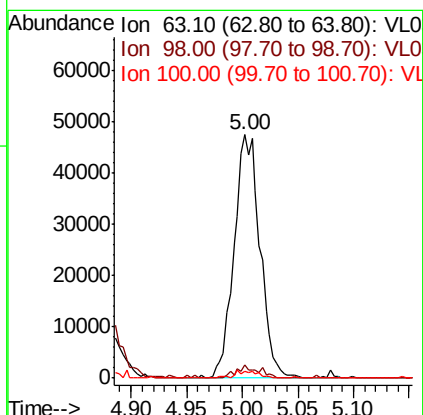
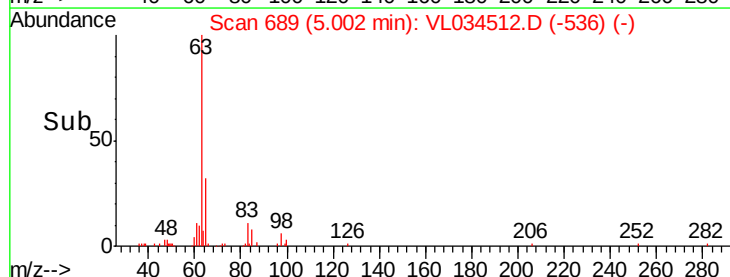
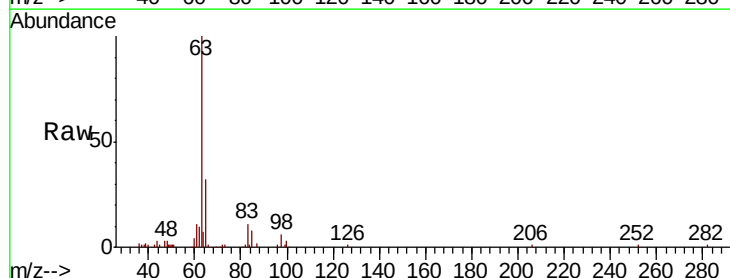
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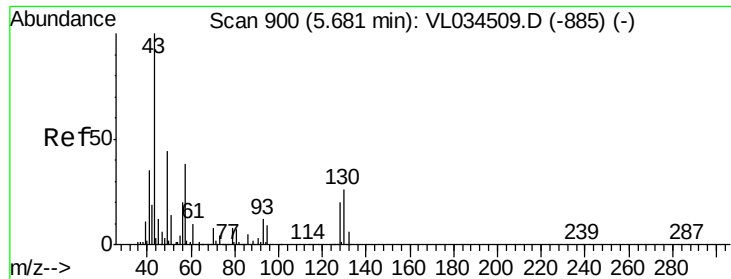
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#24
 1,1-Dichloroethane
 Concen: 0.502 ppbv m
 RT: 5.00 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Tgt Ion:	63	Resp:	77546
Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.1	6.3
100	2.9	1.1	3.3





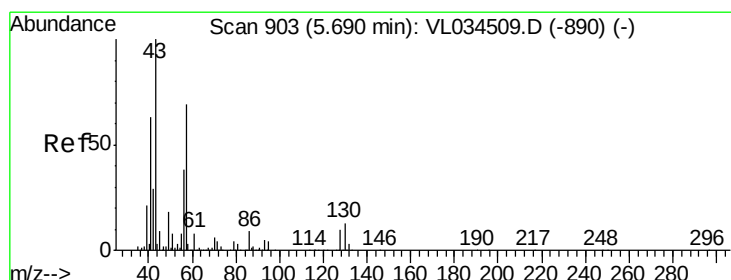
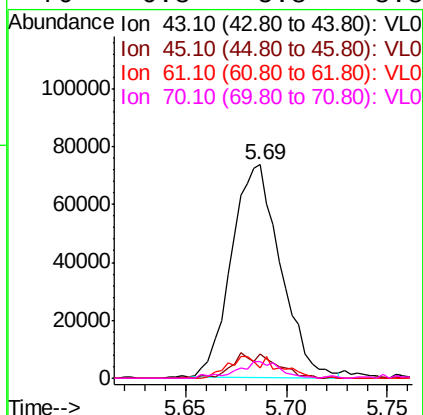
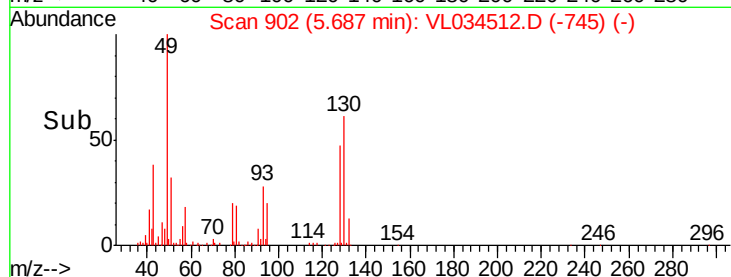
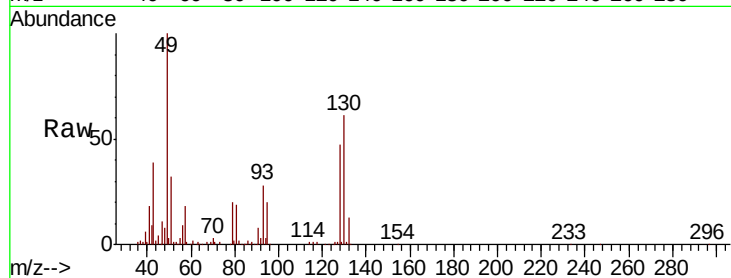
#25
Ethyl Acetate
Concen: 0.456 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.3	12.5
61	10.0	7.8	11.6
70	6.8	5.8	8.8

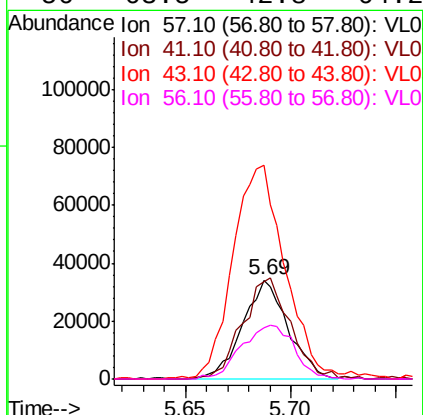
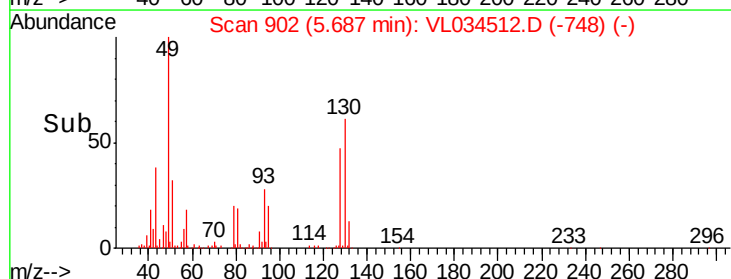
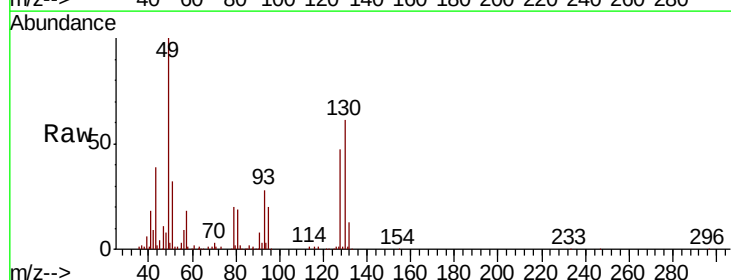
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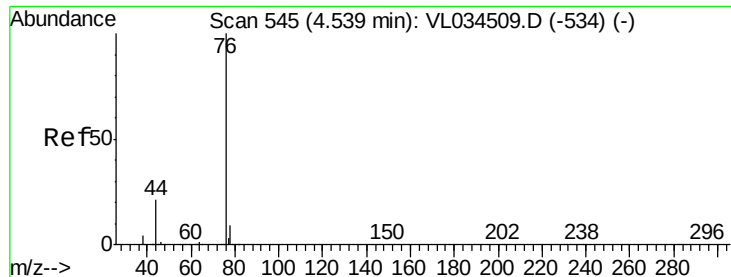
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#26
Hexane
Concen: 0.432 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	108.5	75.3	112.9
43	253.9	189.4	284.2
56	63.5	42.8	64.2





#27

Carbon Disulfide

Concen: 0.466 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

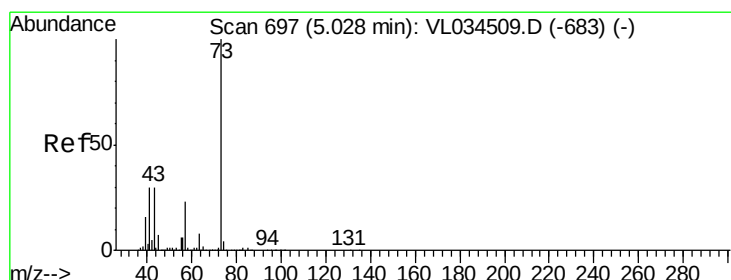
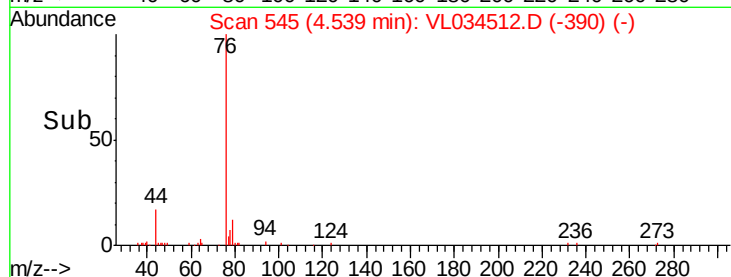
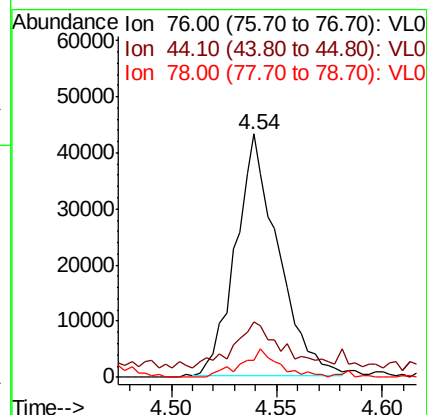
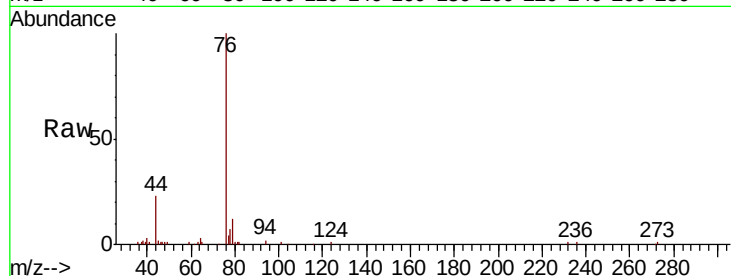
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	59921
Ion	Ratio	Lower	Upper
76	100		
44	23.5	16.6	25.0
78	10.2	7.4	11.0

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#28

Methyl tert-Butyl Ether

Concen: 0.411 ppbv

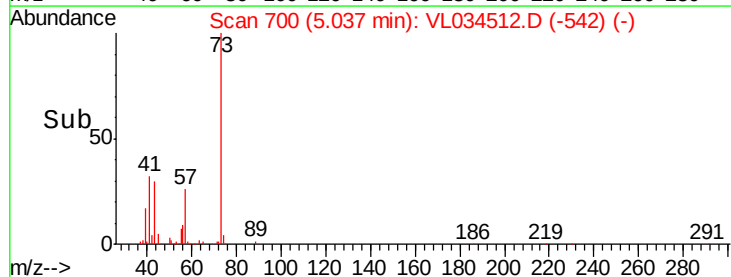
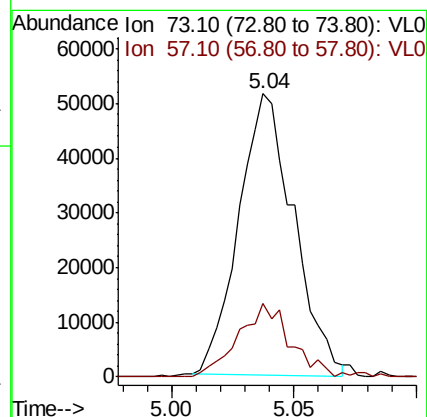
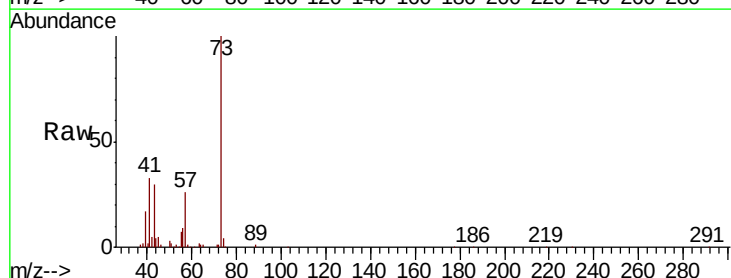
RT: 5.04 min Scan# 700

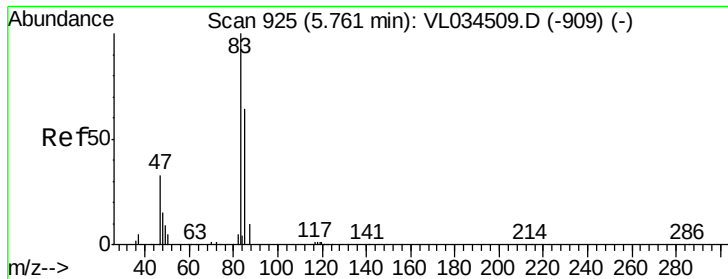
Delta R.T. 0.01 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion:	73	Resp:	80455
Ion	Ratio	Lower	Upper
73	100		
57	25.1	18.2	27.2





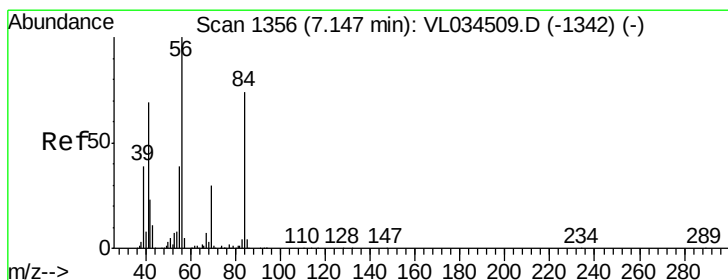
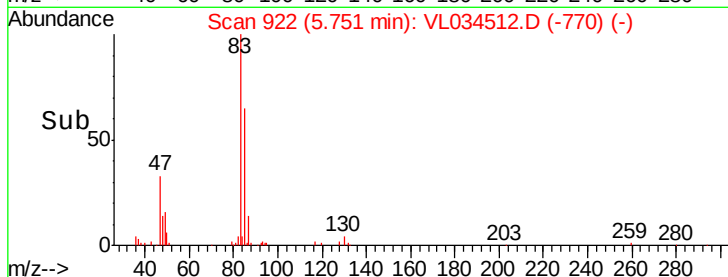
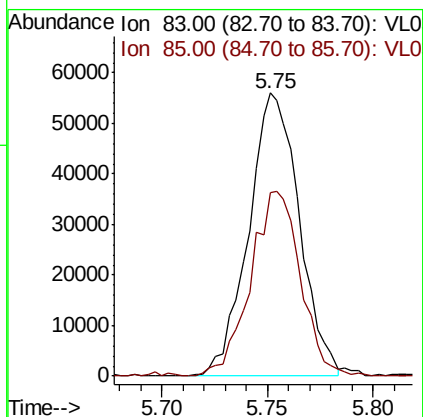
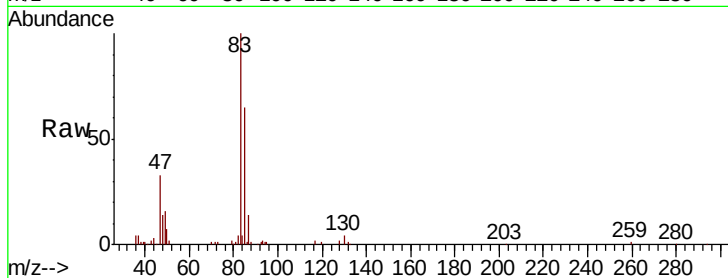
#29
Chloroform
Concen: 0.489 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	93604
Ion Ratio	100	Lower	Upper
83	100		
85	65.0	51.0	76.6

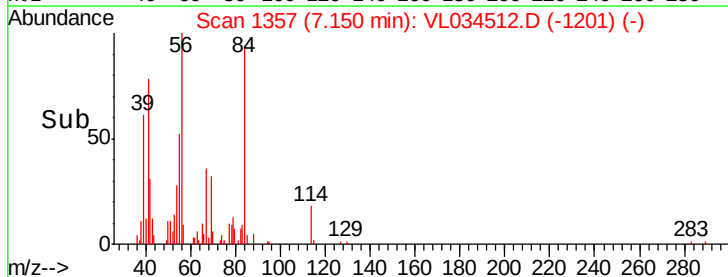
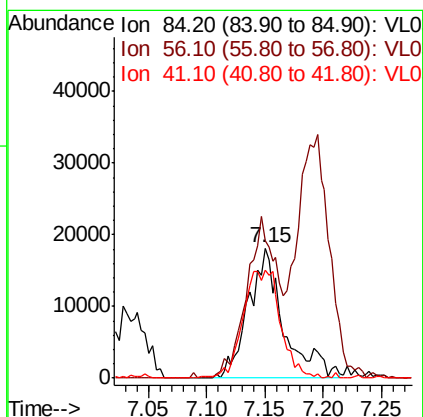
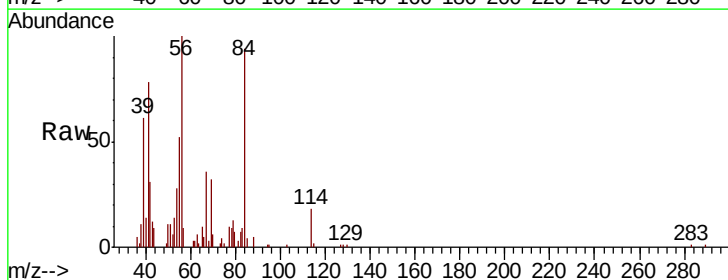
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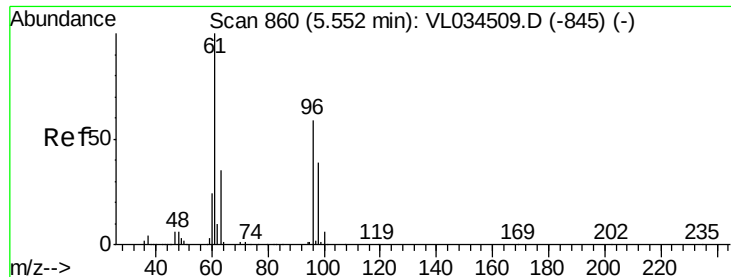
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#30
Cyclohexane
Concen: 0.431 ppbv m
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	84	Resp	38499
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	112.7	169.1#
41	0.0	73.0	109.4#





#31

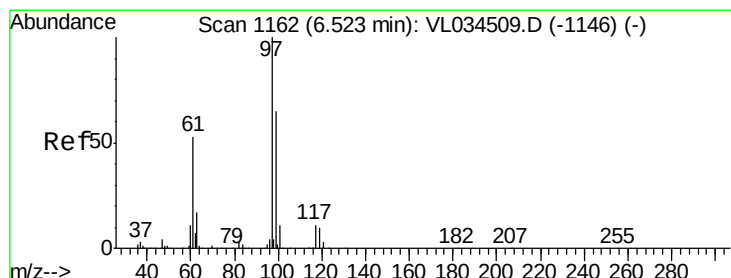
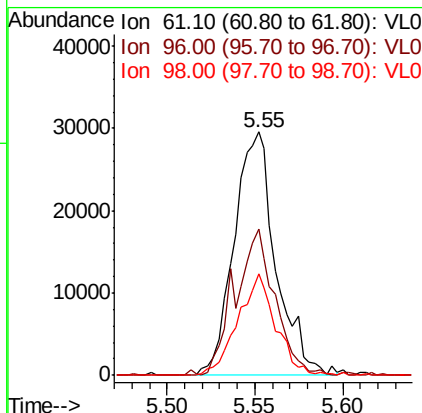
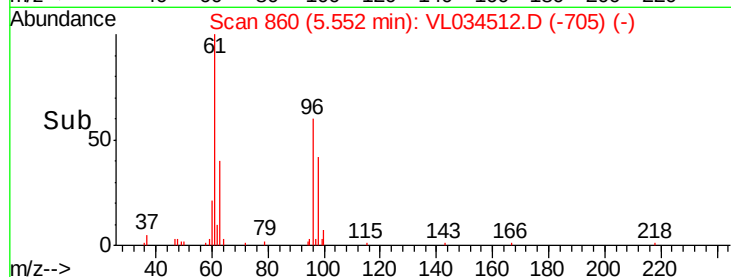
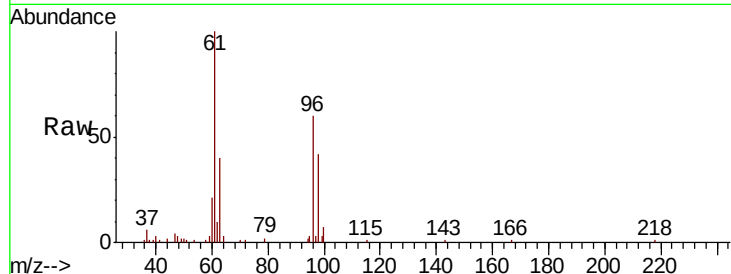
cis-1,2-Dichloroethene
Concen: 0.401 ppbv m
RT: 5.55 min Scan# 860
Delta R.T. -0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:	61	Resp:	48990
Ion	Ratio	Lower	Upper
61	100		
96	59.9	47.1	70.7
98	41.9	31.0	46.6

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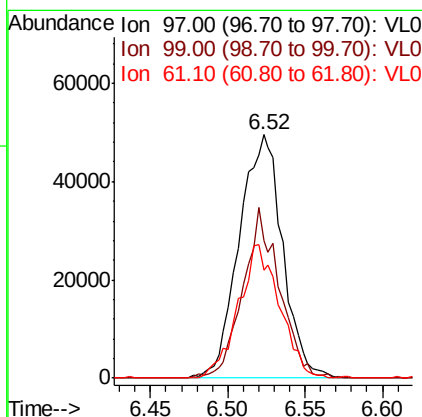
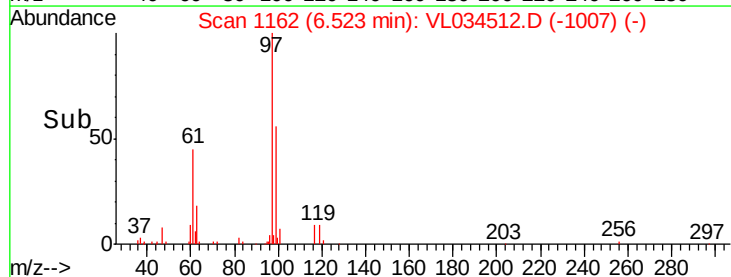
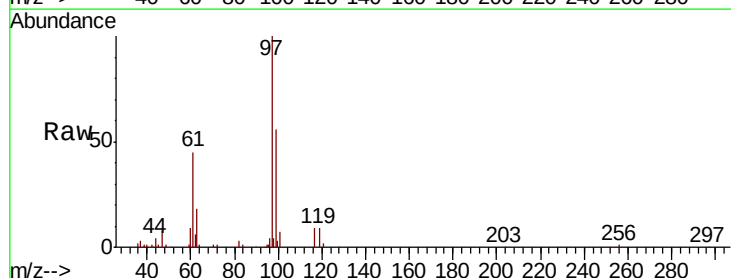
apatel
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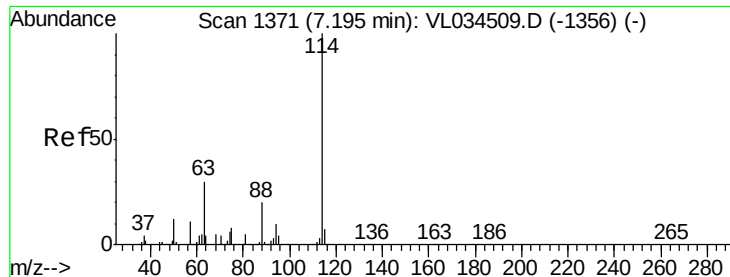


#32

1,1,1-Trichloroethane
Concen: 0.538 ppbv
RT: 6.52 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion:	97	Resp:	96471
Ion	Ratio	Lower	Upper
97	100		
99	59.1	51.7	77.5
61	52.2	42.9	64.3





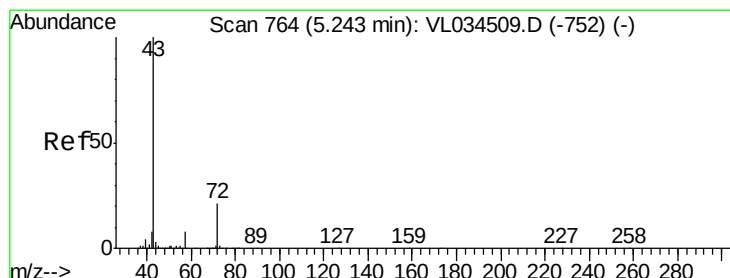
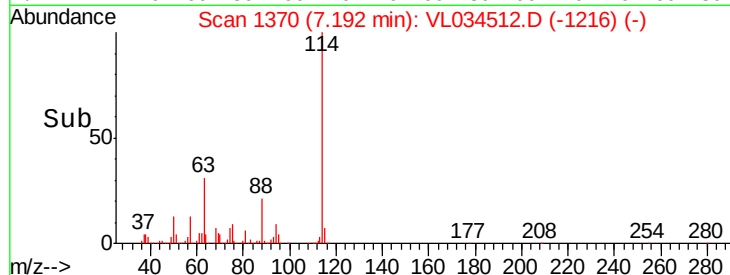
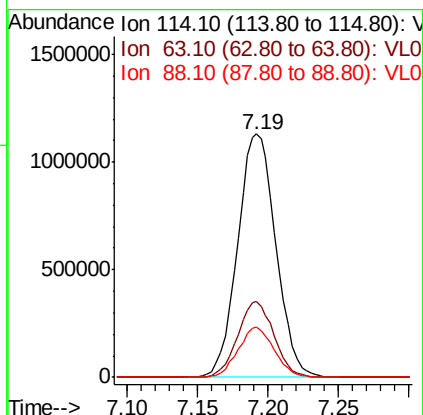
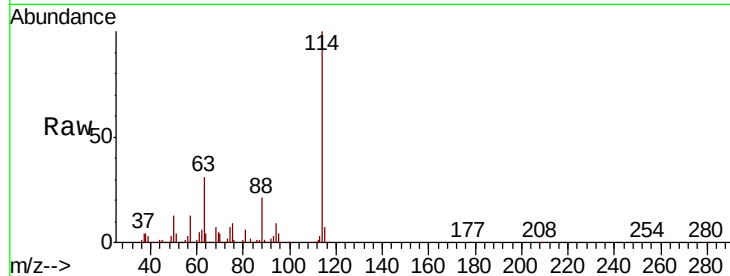
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.9	24.1	36.1
88	19.6	15.7	23.5

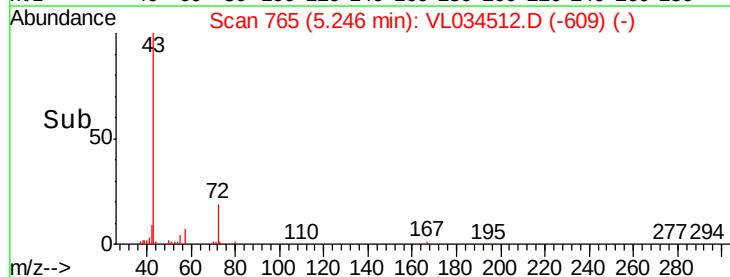
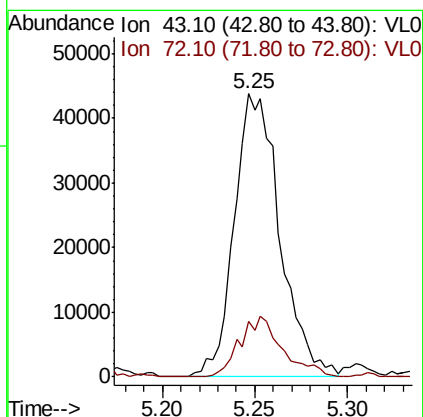
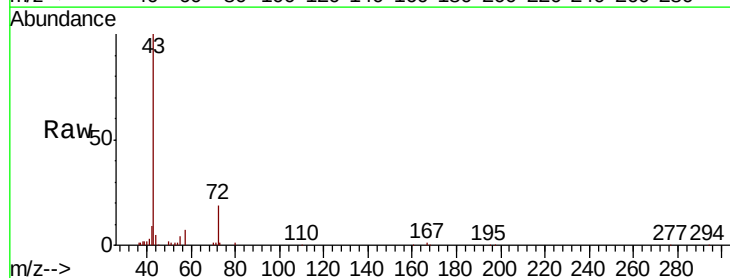
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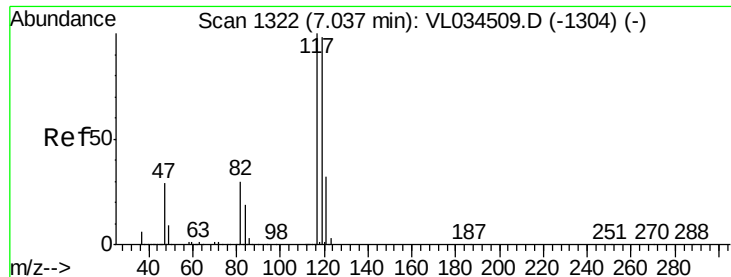
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#34
 2-Butanone
 Concen: 0.425 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.9	17.0	25.4





#35

Carbon Tetrachloride

Concen: 0.504 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

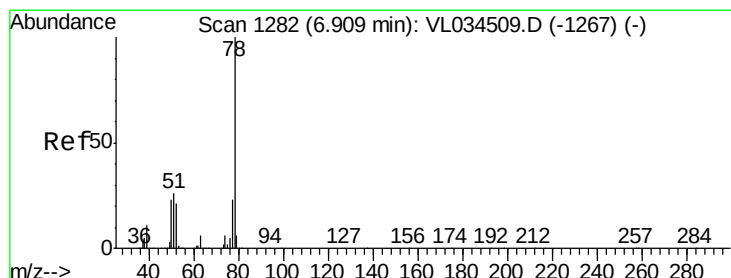
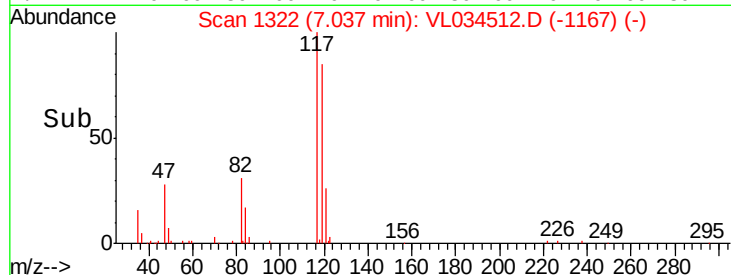
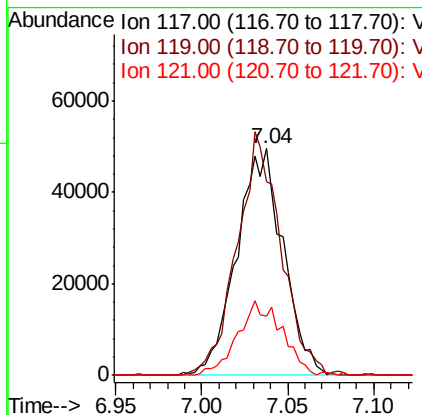
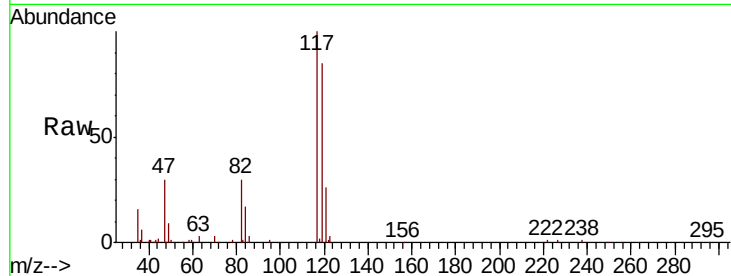
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	92870
Ion	Ratio	Lower	Upper
117	100		
119	84.0	78.7	118.1
121	26.3	25.9	38.9

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#36

Benzene

Concen: 0.416 ppbv

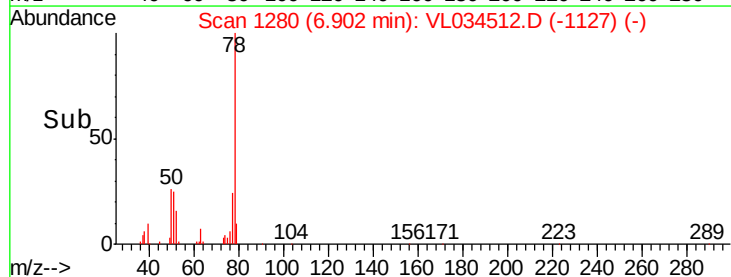
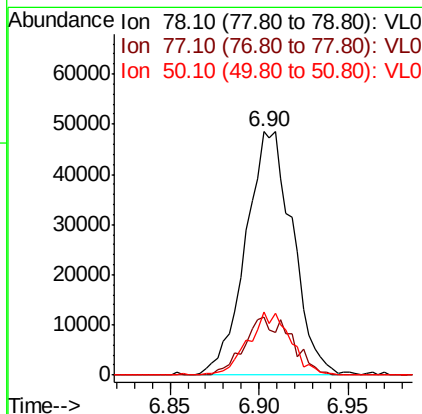
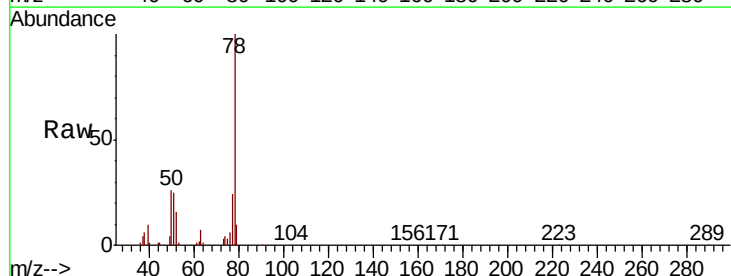
RT: 6.90 min Scan# 1280

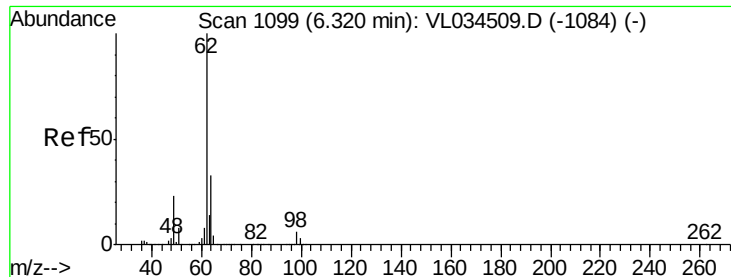
Delta R.T. -0.01 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion:	78	Resp:	89252
Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.6	28.0
50	25.5	18.8	28.2





#37

1,2-Dichloroethane

Concen: 0.506 ppbv m

RT: 6.32 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 80639

Ion Ratio Lower Upper

62 100

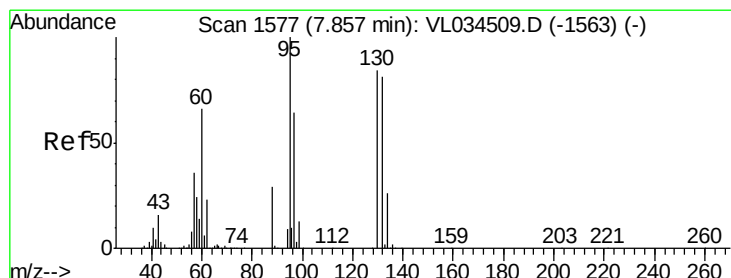
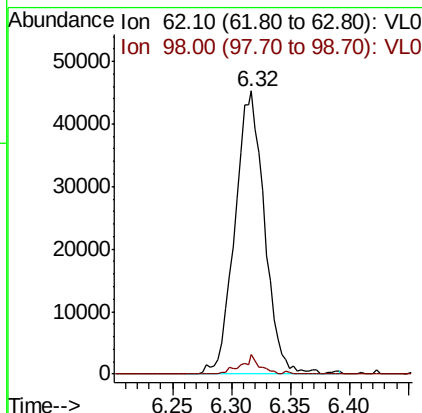
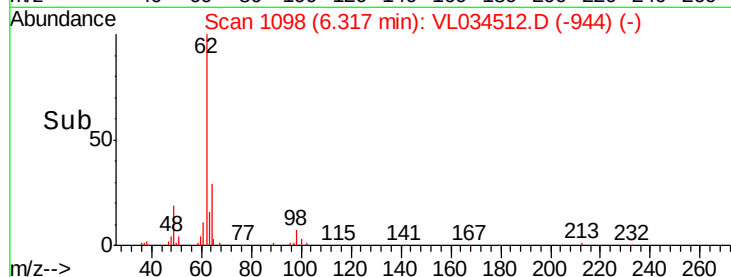
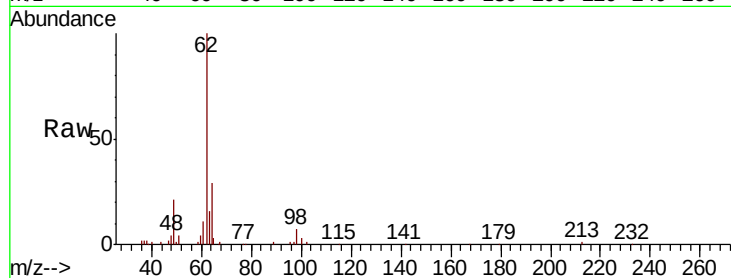
98 4.5 3.8 5.6

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#38

Trichloroethene

Concen: 0.446 ppbv m

RT: 7.86 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion: 130 Resp: 39209

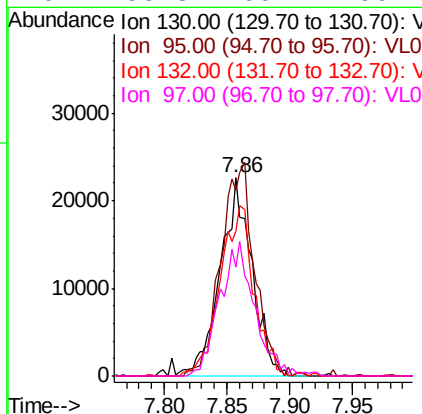
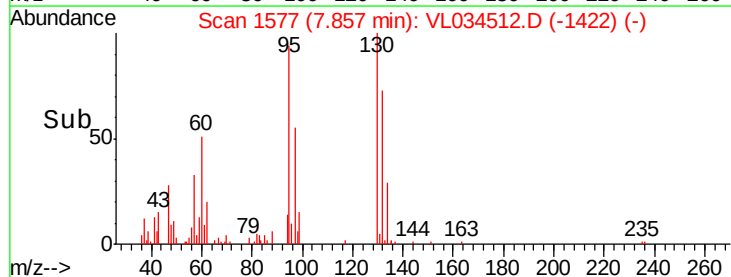
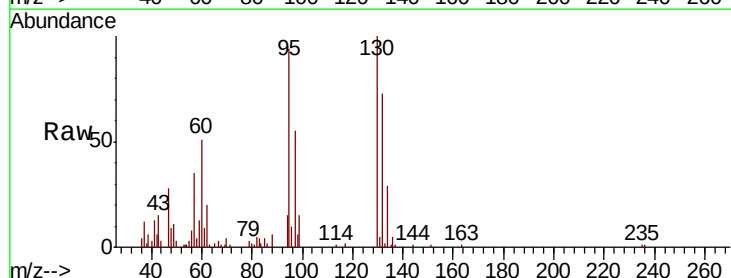
Ion Ratio Lower Upper

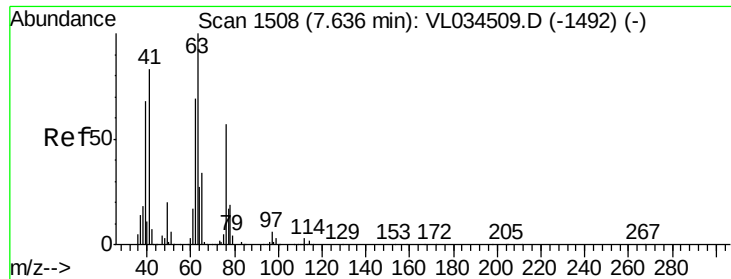
130 100

95 93.7 94.2 141.2#

132 73.3 76.1 114.1#

97 55.3 60.2 90.2#





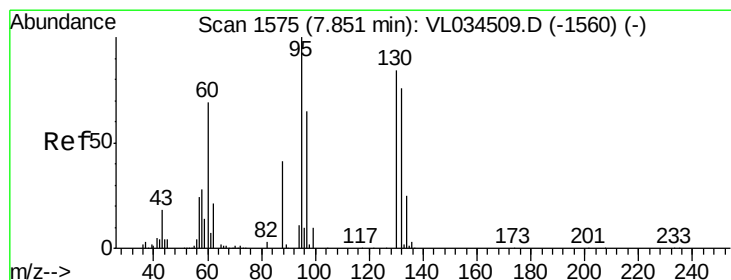
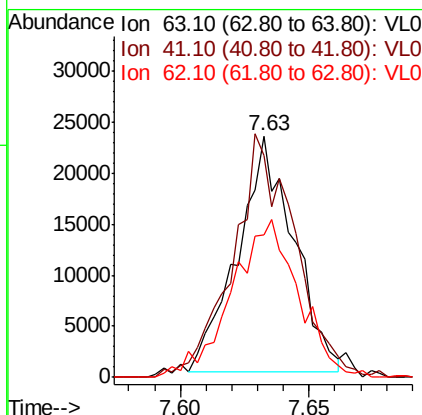
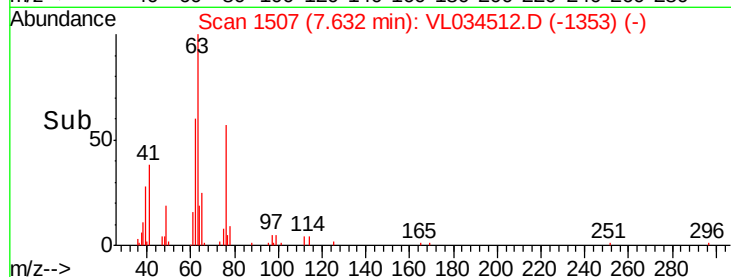
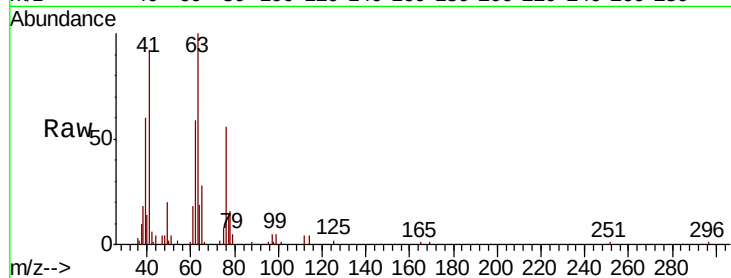
#39
 1,2-Dichloropropane
 Concen: 0.425 ppbv
 RT: 7.63 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	90.1	66.1	99.1
62	50.1	54.9	82.3#

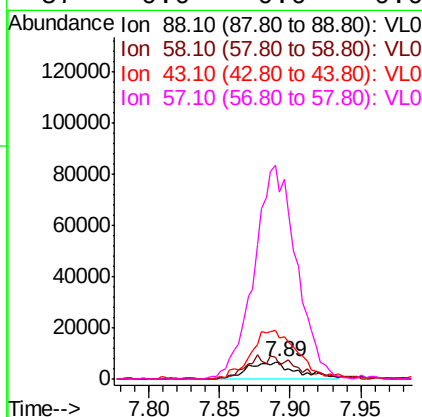
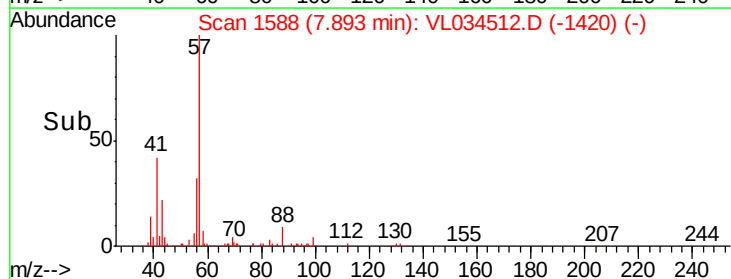
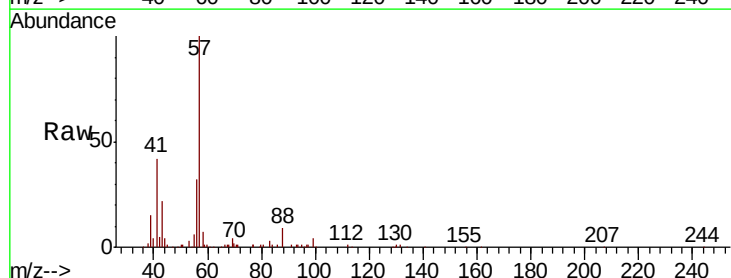
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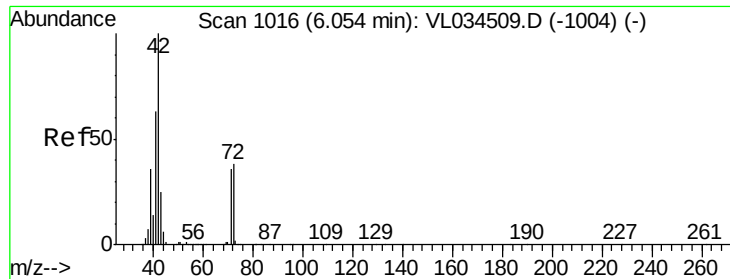
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#40
 1,4-Dioxane
 Concen: 0.449 ppbv m
 RT: 7.89 min Scan# 1588
 Delta R.T. 0.04 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.9	161.9#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.329 ppbv

RT: 6.07 min Scan# 1022

Delta R.T. 0.02 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

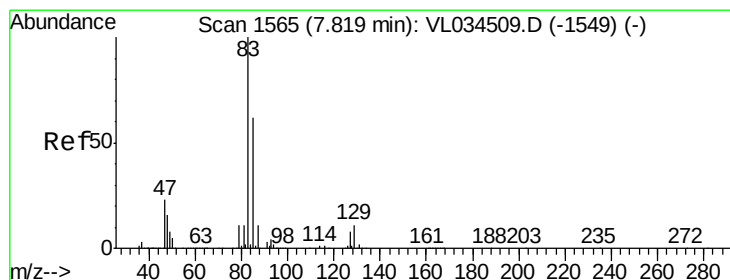
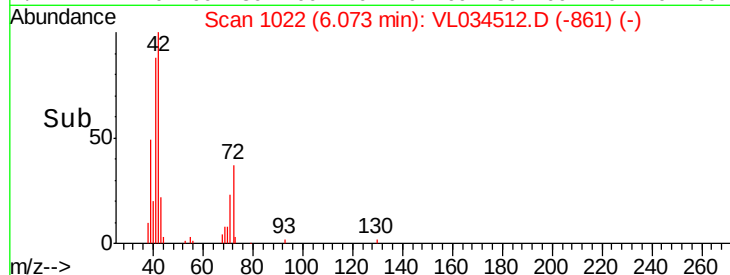
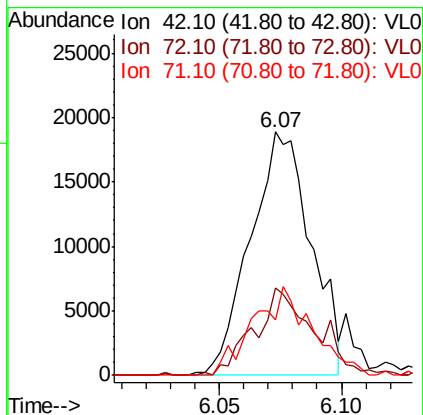
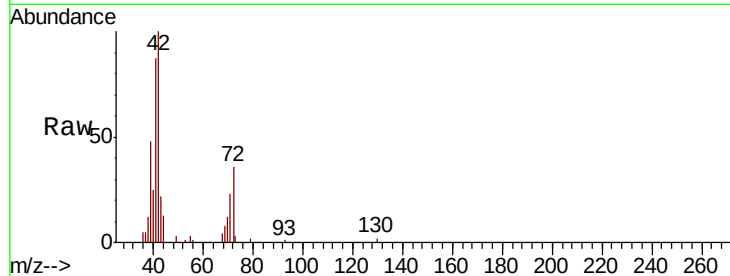
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	32525
Ion Ratio		Lower	Upper
42	100		
72	36.8	30.9	46.3
71	35.5	28.9	43.3

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#42

Bromodichloromethane

Concen: 0.480 ppbv m

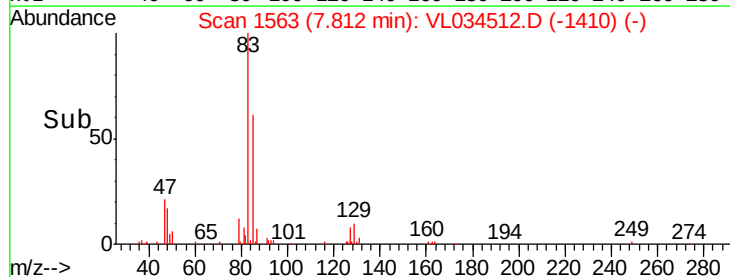
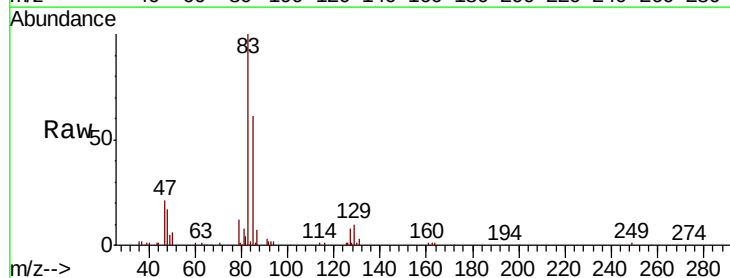
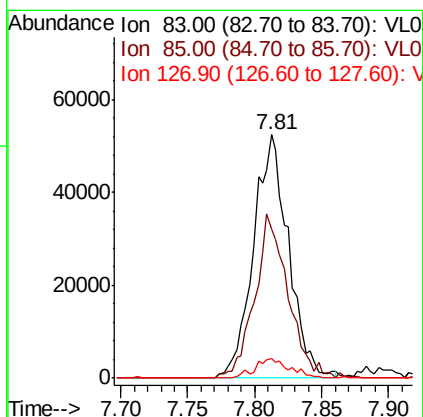
RT: 7.81 min Scan# 1563

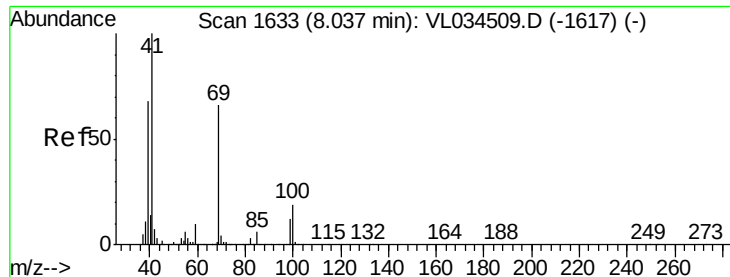
Delta R.T. -0.01 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion:	83	Resp:	95631
Ion Ratio		Lower	Upper
83	100		
85	61.4	49.4	74.2
127	8.3	6.2	9.4





#43

Methyl Methacrylate

Concen: 0.369 ppbv

RT: 8.04 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VL034512.D

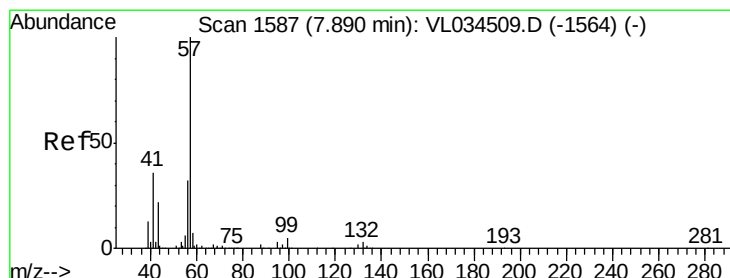
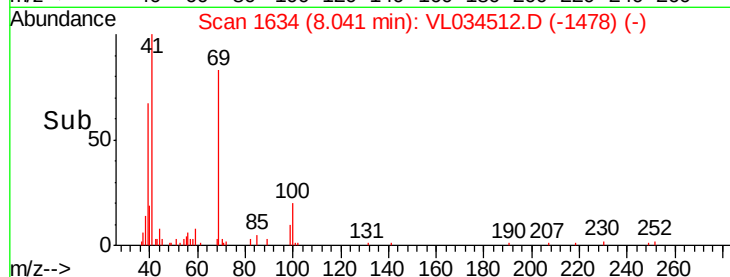
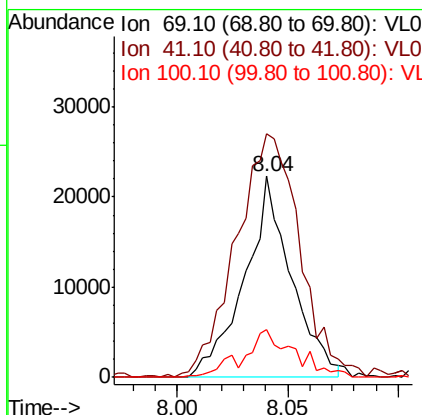
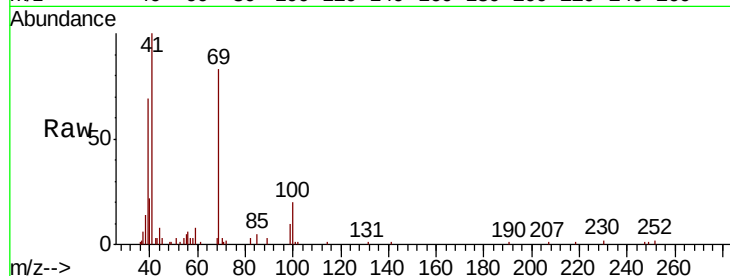
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	164.6	124.0	186.0	
100	26.1	23.1	34.7	

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#44

2,2,4-Trimethylpentane

Concen: 0.443 ppbv

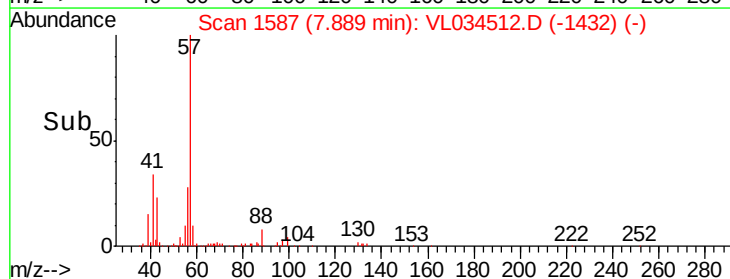
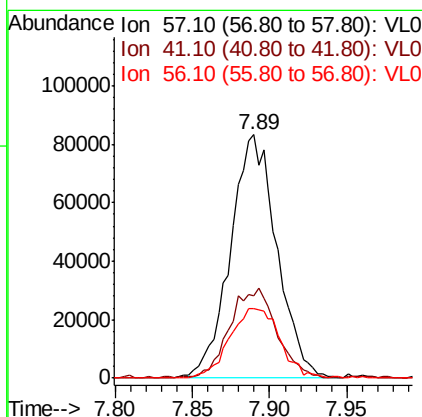
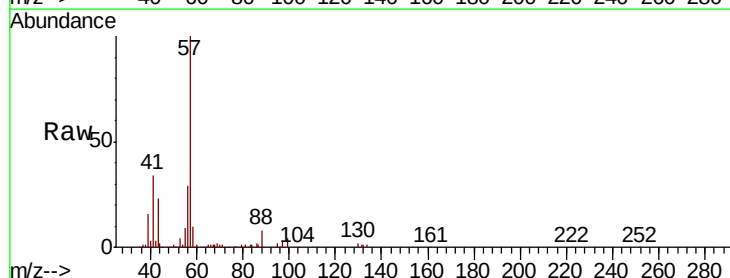
RT: 7.89 min Scan# 1587

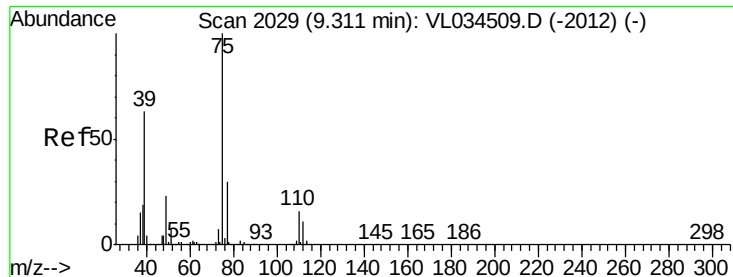
Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	37.7	29.0	43.4	
56	31.4	24.9	37.3	





#45

t-1,3-Dichloropropene

Concen: 0.353 ppbv m

RT: 9.31 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 40287

Ion Ratio Lower Upper

75 100

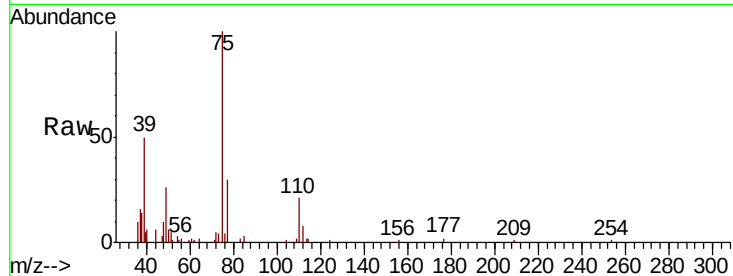
77 30.3 24.2 36.2

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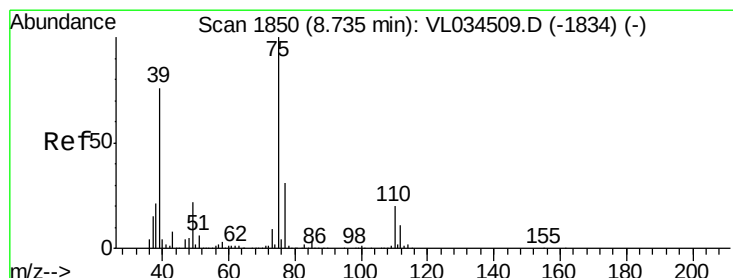
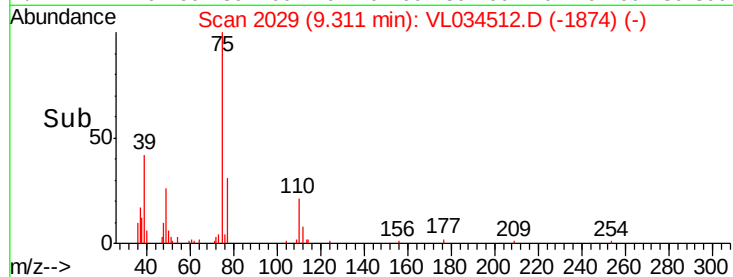
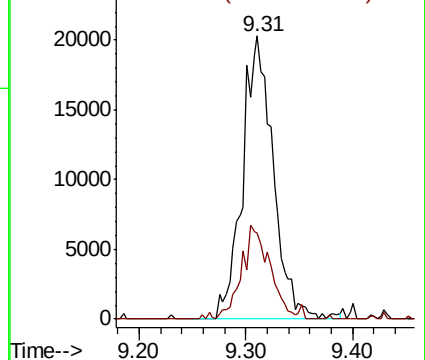
apatel

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.372 ppbv m

RT: 8.74 min Scan# 1850

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

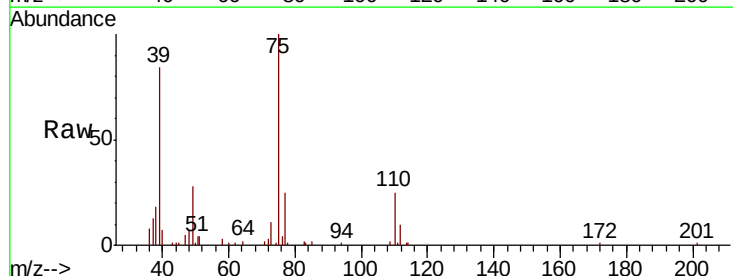
Tgt Ion: 75 Resp: 47636

Ion Ratio Lower Upper

75 100

39 83.8 60.5 90.7

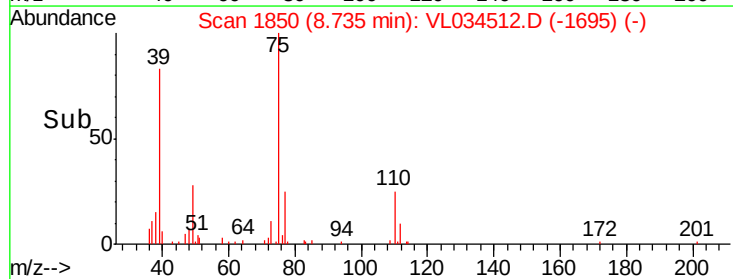
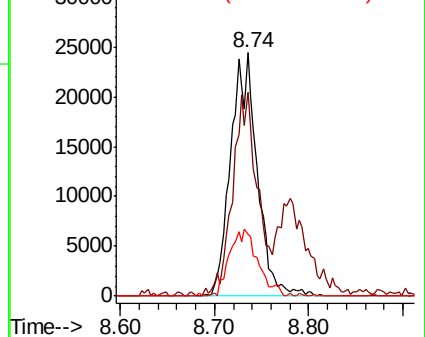
77 25.3 24.8 37.2

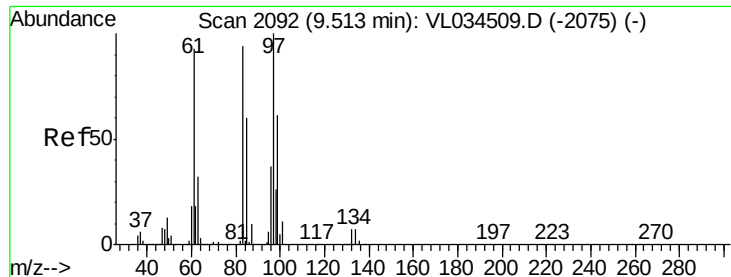


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





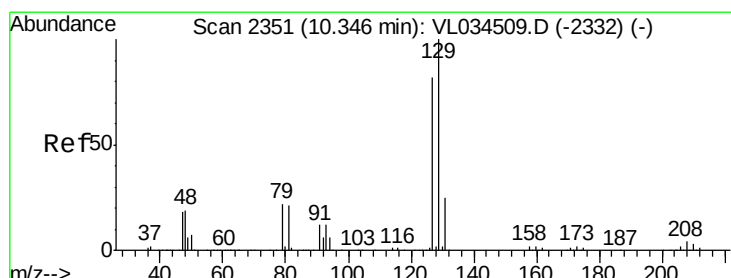
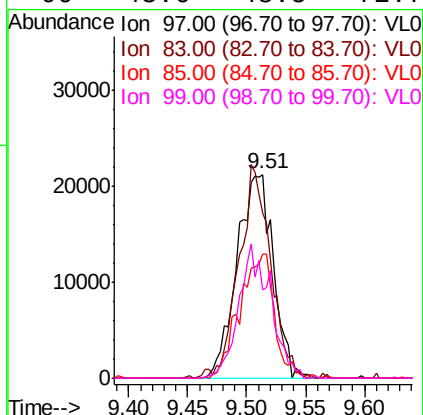
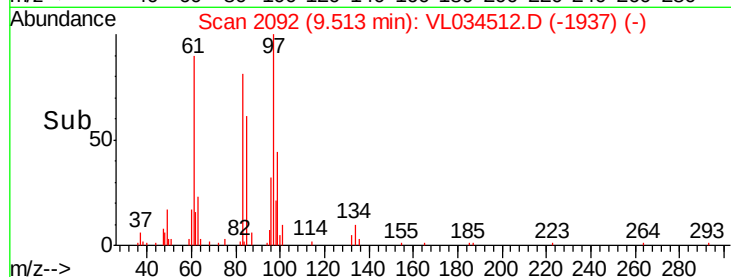
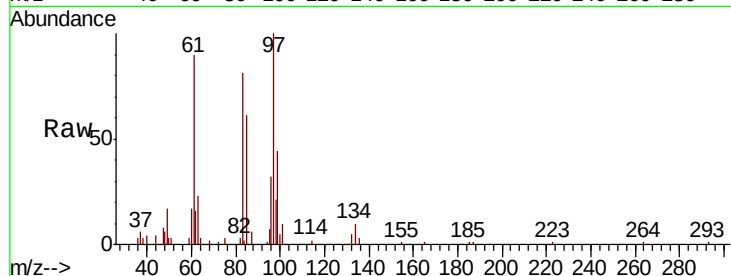
#47
 1,1,2-Trichloroethane
 Concen: 0.497 ppbv m
 RT: 9.51 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
97	100		
83	81.2	75.0	112.4
85	61.1	48.2	72.4
99	43.6	48.5	72.7#

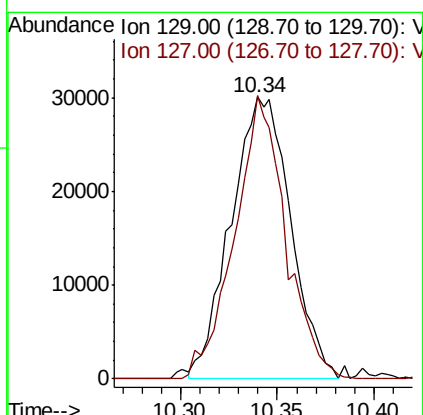
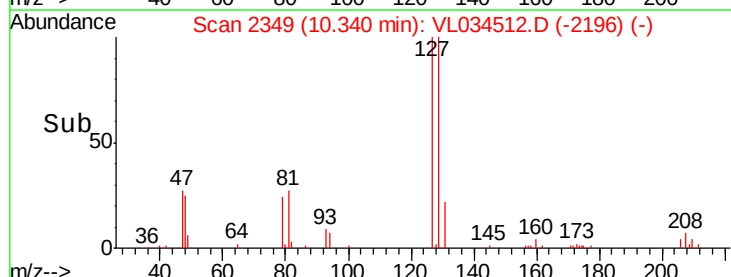
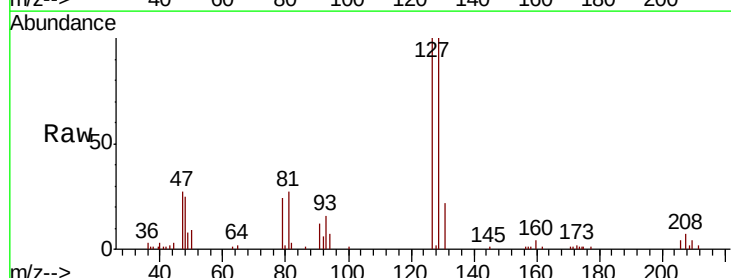
Manual Integrations
 APPROVED

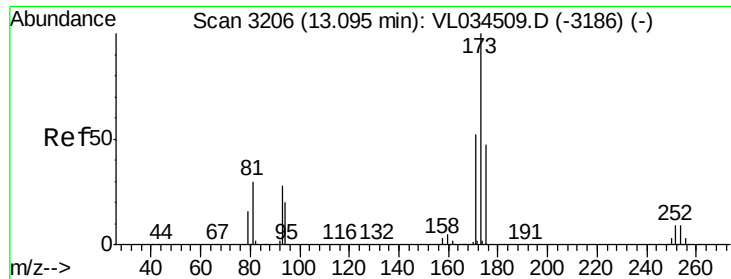
apatel
 1/2/2020 10:48:43 AM



#48
 Dibromochloromethane
 Concen: 0.409 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. -0.01 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
129	100		
127	85.9	39.4	118.2





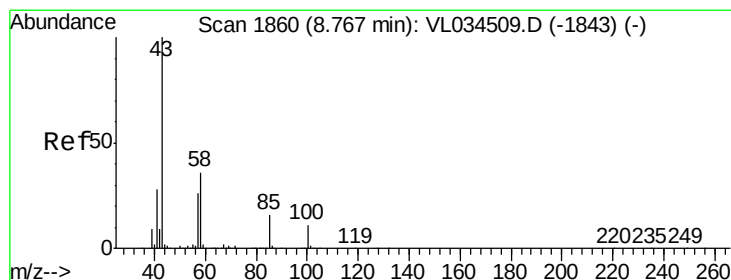
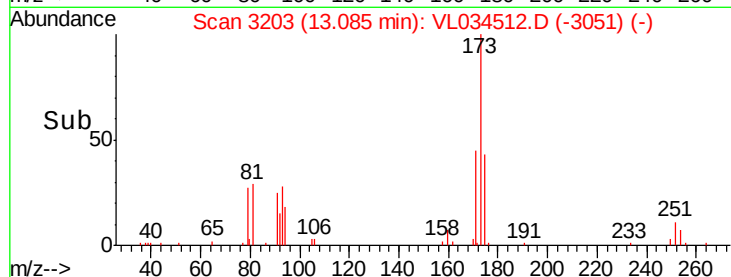
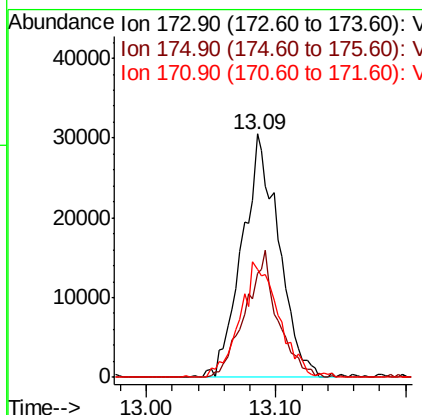
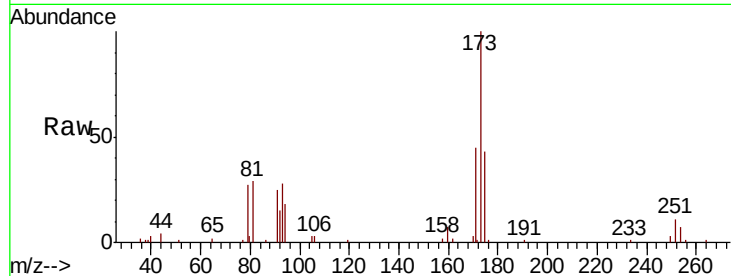
#49
Bromoform
Concen: 0.423 ppbv m
RT: 13.09 min Scan# 3203
Delta R.T. -0.01 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.8	59.8#
171	50.2	42.1	63.1

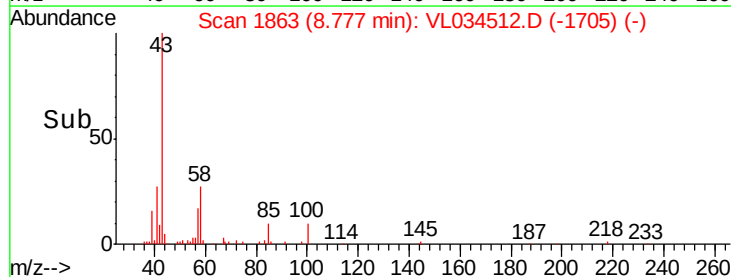
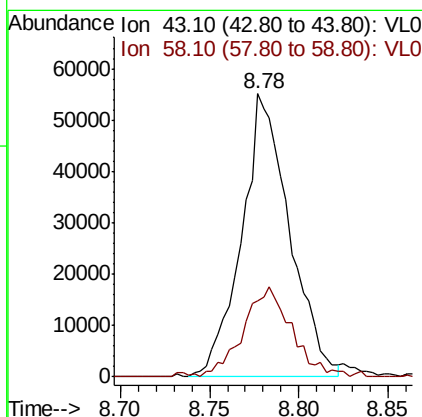
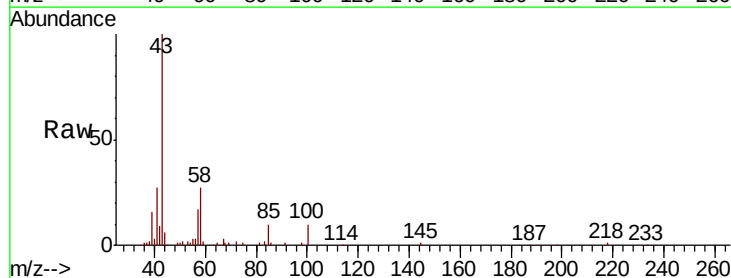
Manual Integrations
APPROVED

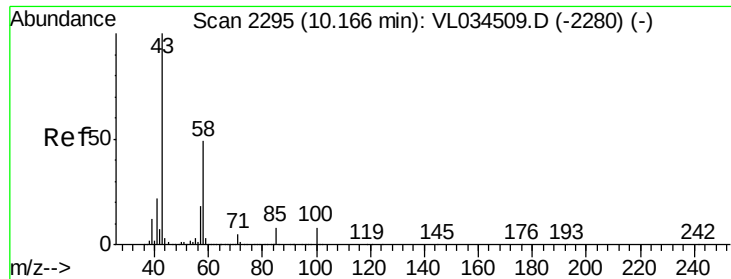
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#50
4-Methyl-2-Pentanone
Concen: 0.406 ppbv
RT: 8.78 min Scan# 1863
Delta R.T. 0.01 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.9	28.2	42.2





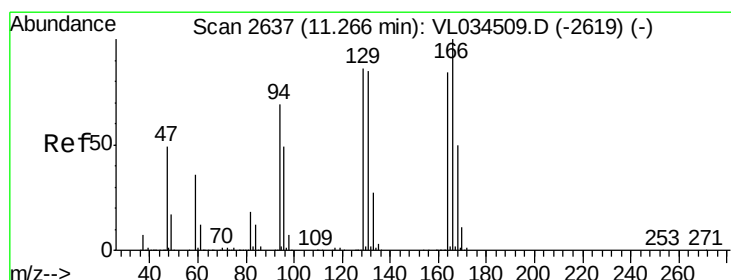
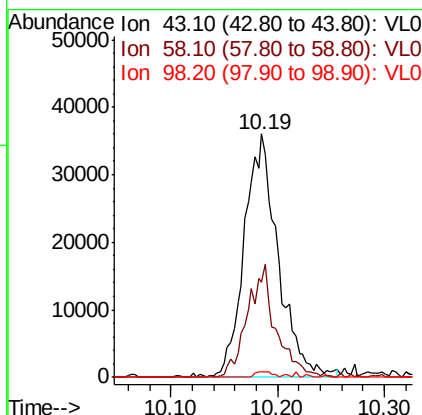
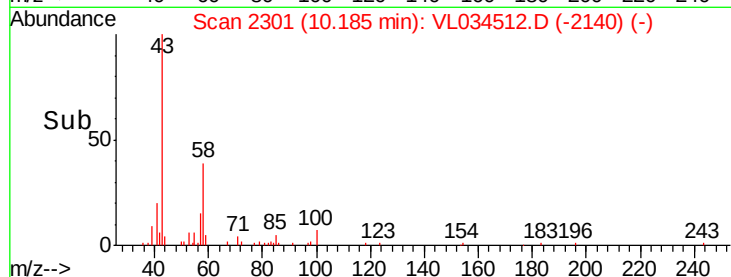
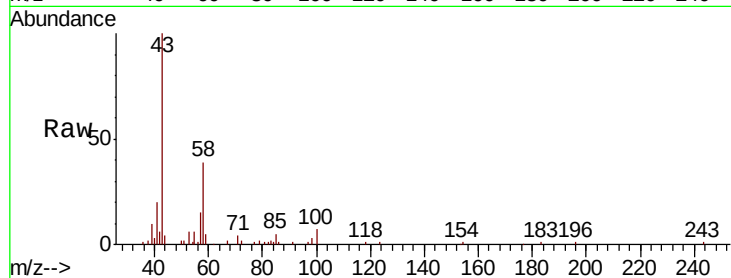
#51
2-Hexanone
Concen: 0.372 ppbv m
RT: 10.19 min Scan# 2301
Delta R.T. 0.02 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.2	37.4	56.0
98	1.7	0.2	0.2#

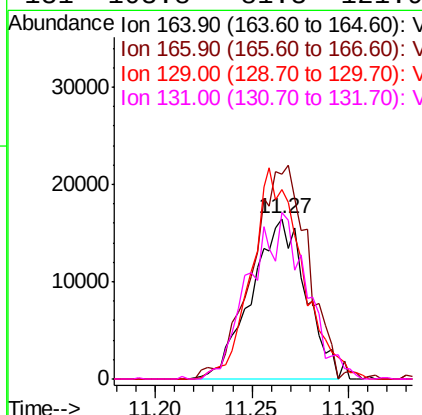
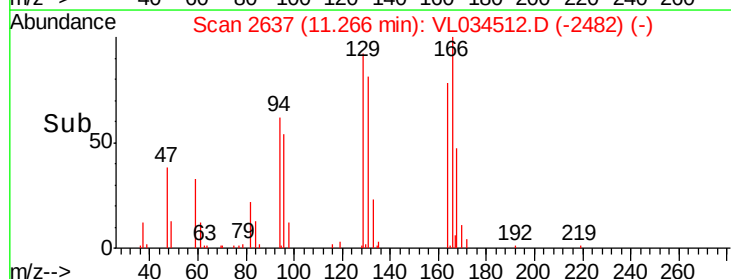
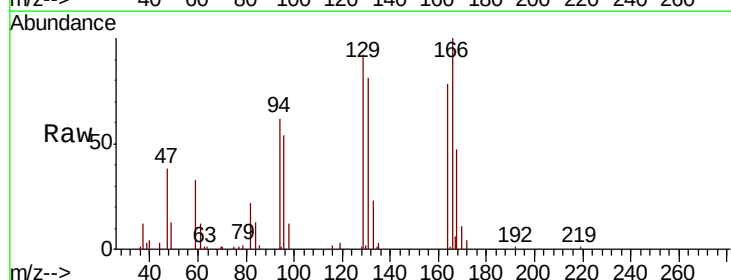
Manual Integrations
APPROVED

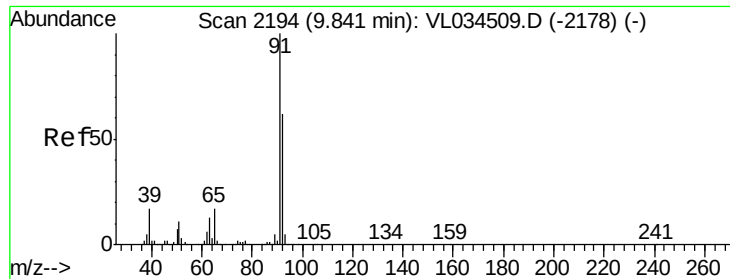
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#52
Tetrachloroethene
Concen: 0.346 ppbv
RT: 11.27 min Scan# 2637
Delta R.T. -0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	95.7	143.5
129	117.9	82.2	123.2
131	103.8	81.3	121.9





#53

Toluene

Concen: 0.361 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 87968

Ion Ratio Lower Upper

91 100

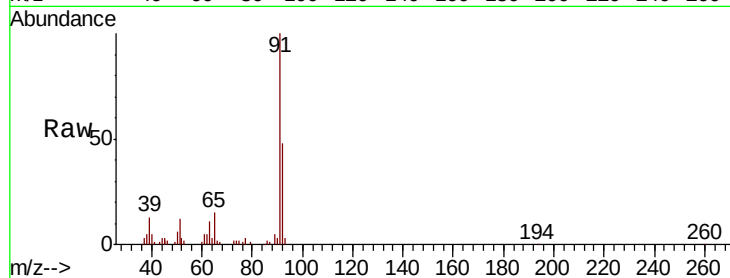
92 57.8 48.4 72.6

Manual Integrations

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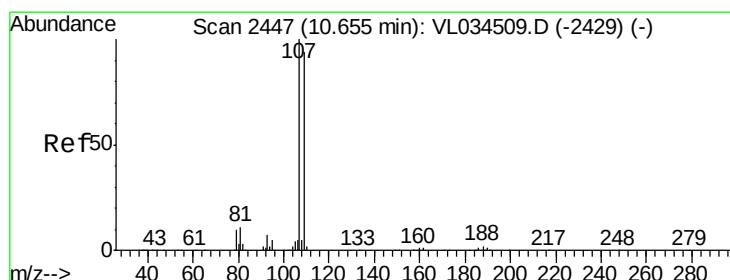
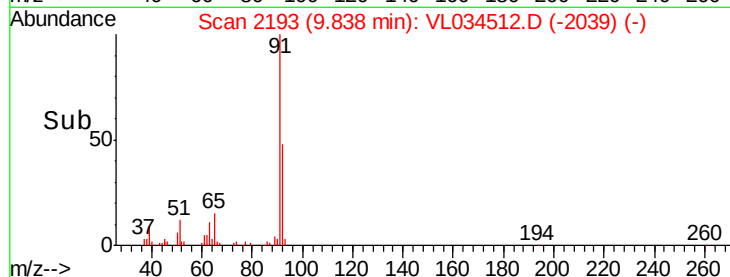
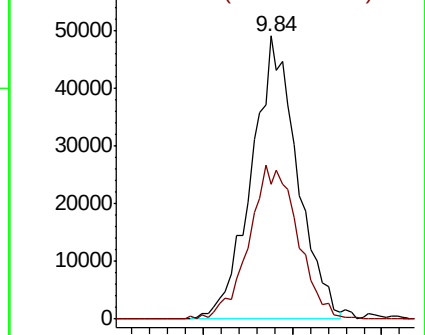
apatel

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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: 0.413 ppbv m

RT: 10.65 min Scan# 2446

Delta R.T. -0.00 min

Lab File: VL034512.D

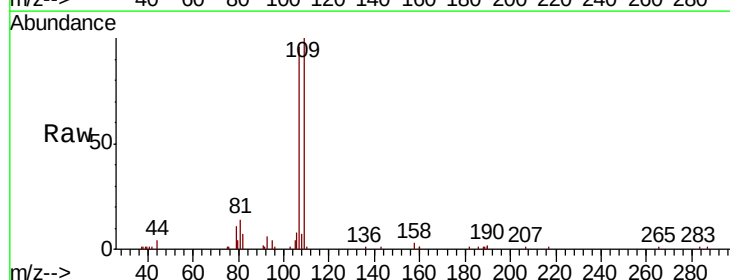
Acq: 30 Dec 2019 12:20

Tgt Ion: 107 Resp: 58160

Ion Ratio Lower Upper

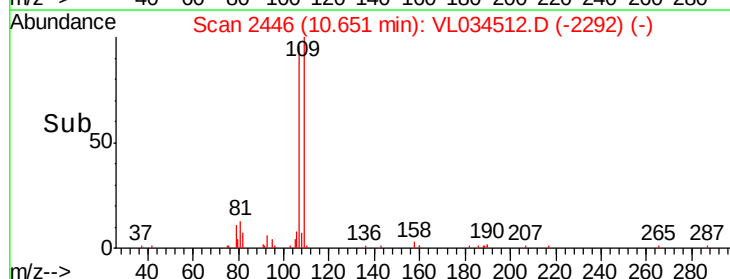
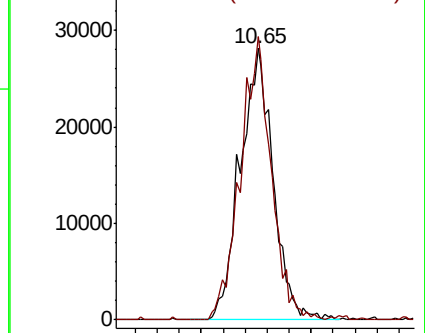
107 100

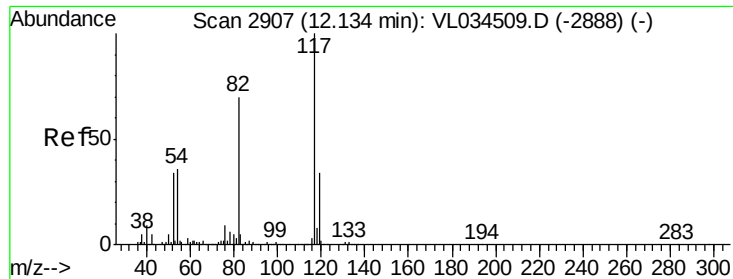
109 104.4 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





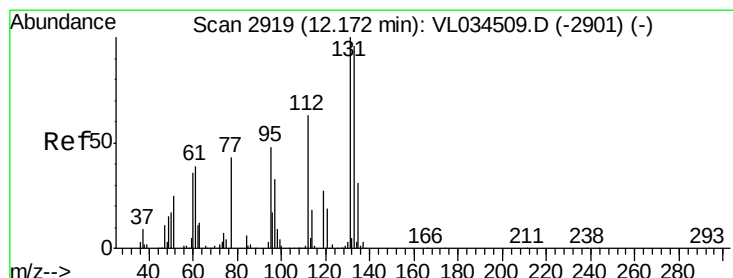
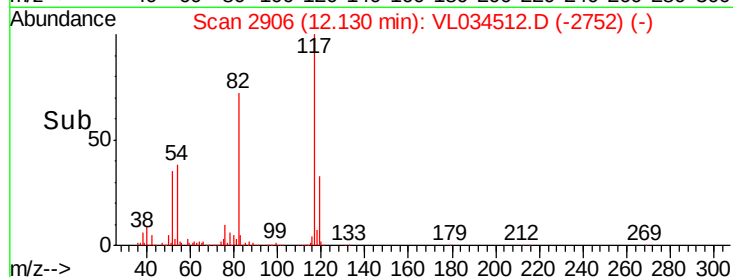
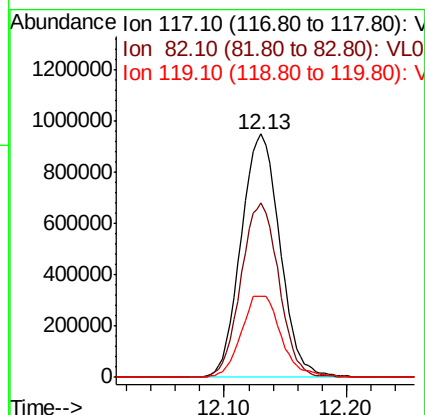
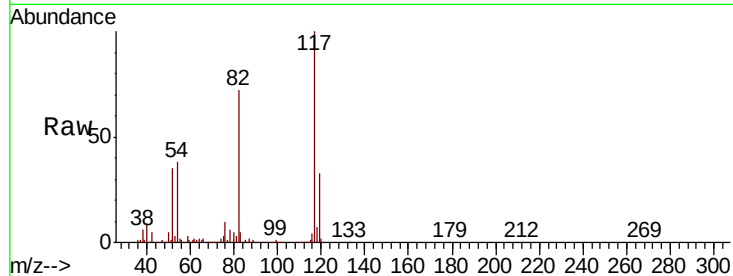
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.1	56.2	84.4
119	34.5	27.1	40.7

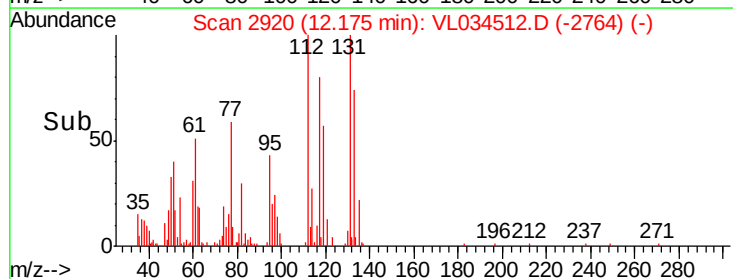
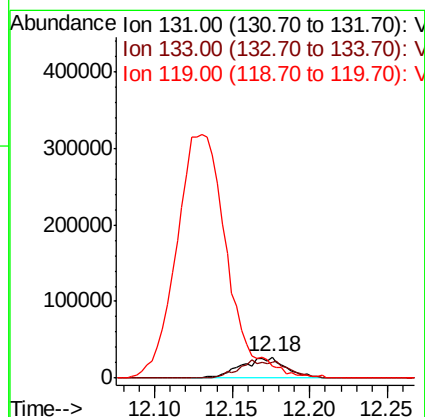
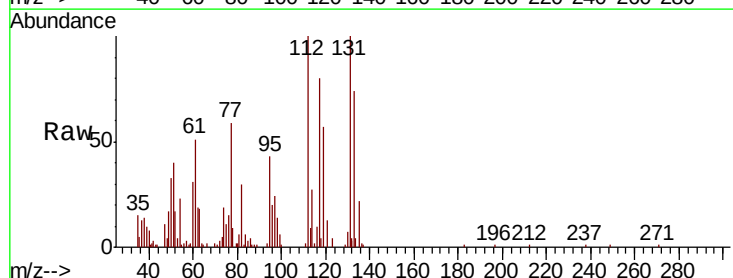
Manual Integrations
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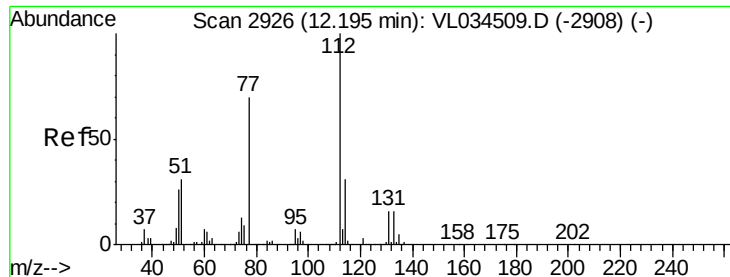
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.536 ppbv m
RT: 12.18 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	76.2	114.2#
119	0.0	47.1	70.7#





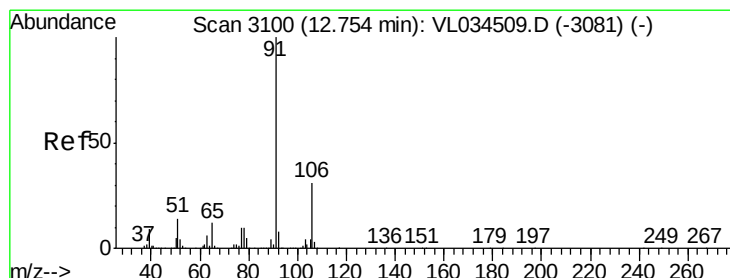
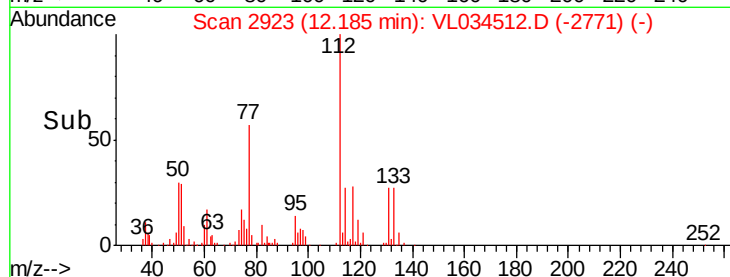
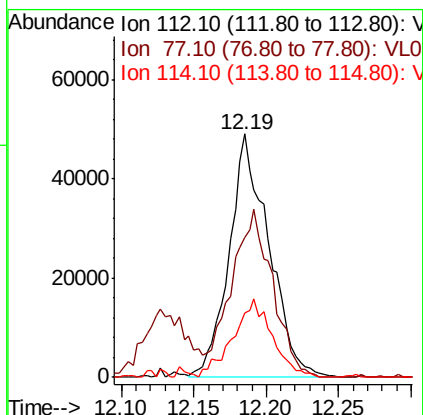
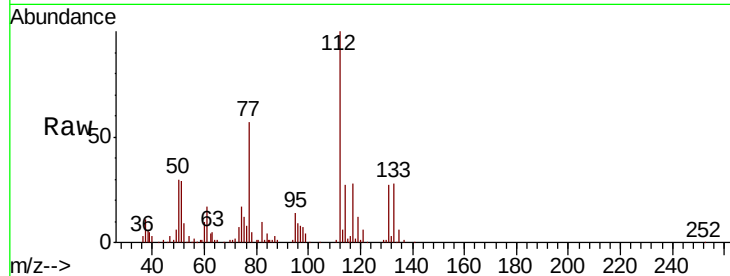
#57
Chlorobenzene
Concen: 0.494 ppbv
RT: 12.19 min Scan# 2923
Delta R.T. -0.01 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	57.4	57.4	86.0
114	26.7	28.4	34.8

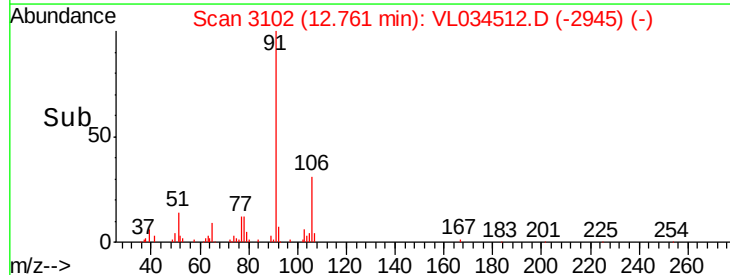
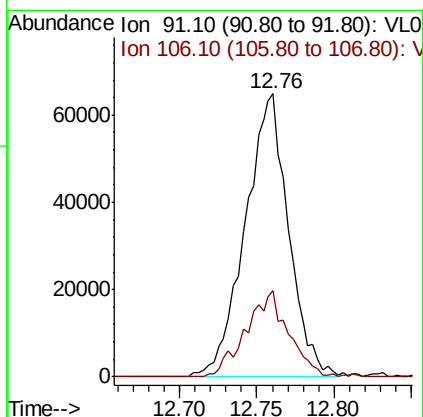
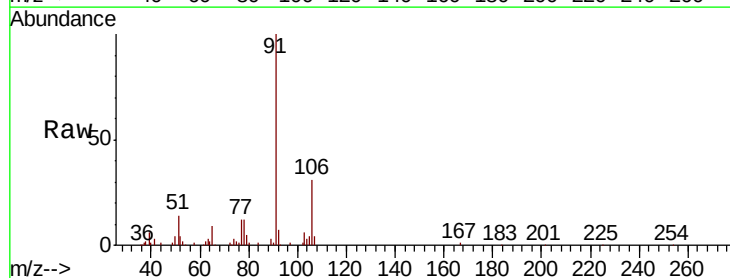
Manual Integrations
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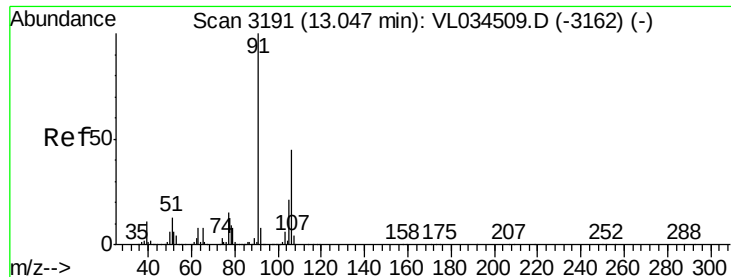
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#58
Ethyl Benzene
Concen: 0.390 ppbv
RT: 12.76 min Scan# 3102
Delta R.T. 0.01 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.6	36.8





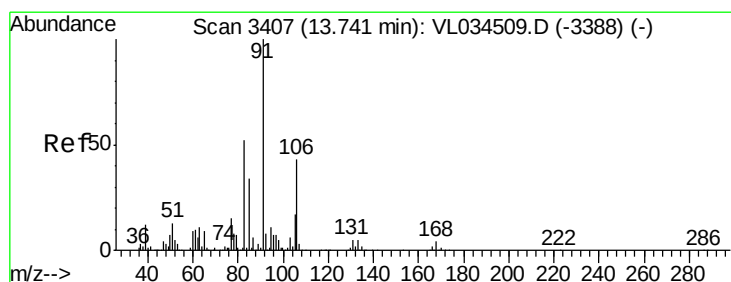
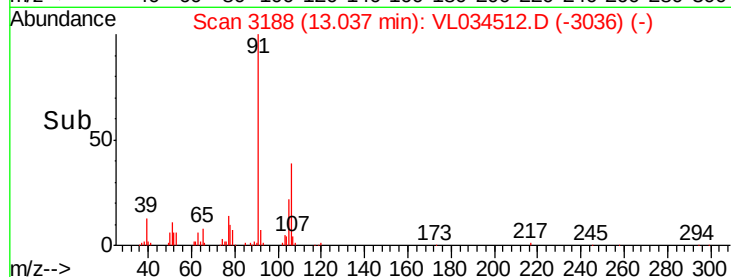
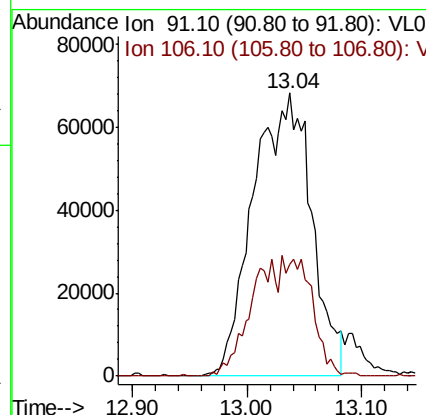
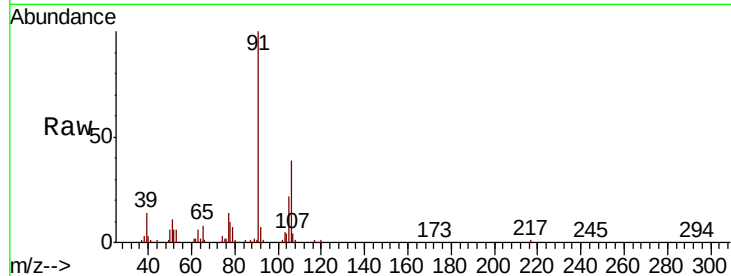
#59
m/p-Xylene
Concen: 0.860 ppbv m
RT: 13.04 min Scan# 3188
Delta R.T. -0.01 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 240539
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#

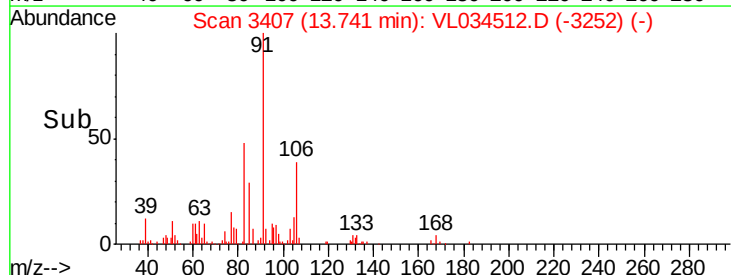
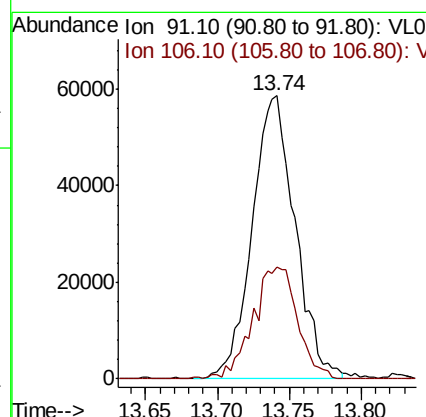
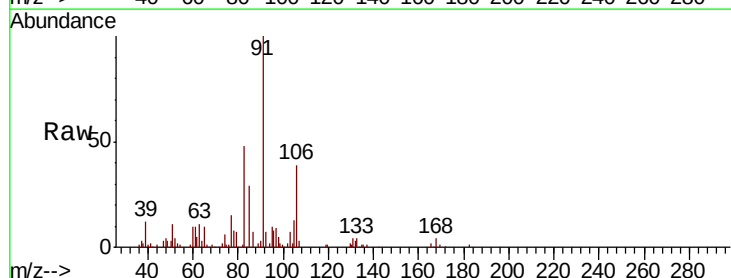
Manual Integrations
APPROVED

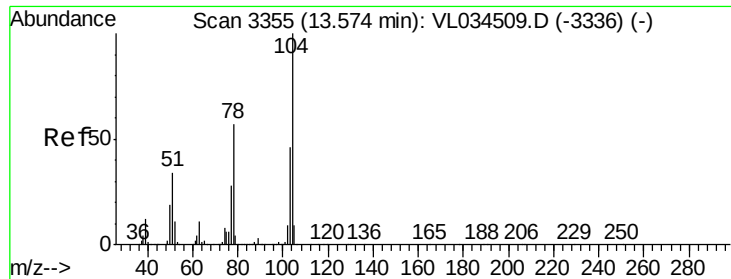
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#60
o-Xylene
Concen: 0.440 ppbv m
RT: 13.74 min Scan# 3407
Delta R.T. -0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion: 91 Resp: 121594
Ion Ratio Lower Upper
91 100
106 41.1 21.4 64.3





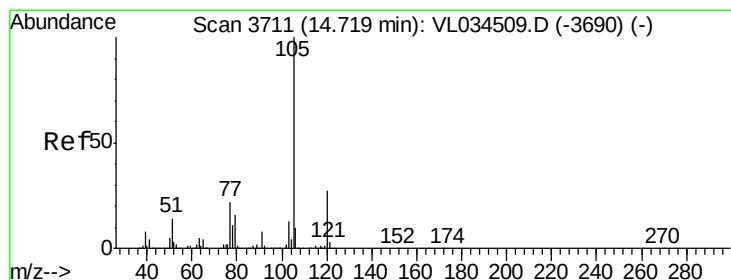
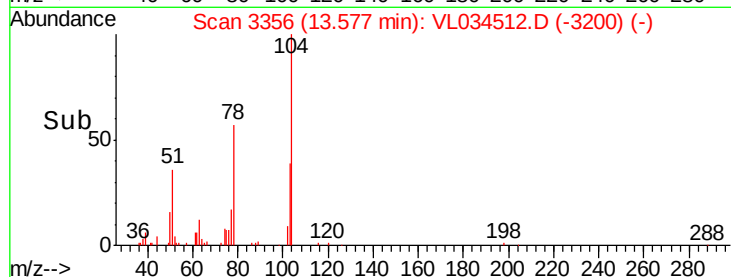
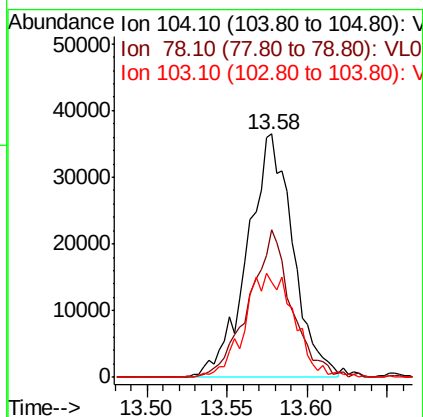
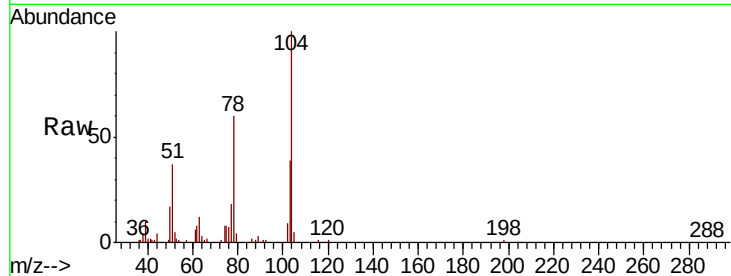
#61
Stvrene
Concen: 0.356 ppbv
RT: 13.58 min Scan# 3356
Delta R.T. 0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.1	47.7	71.5
103	46.7	38.6	58.0

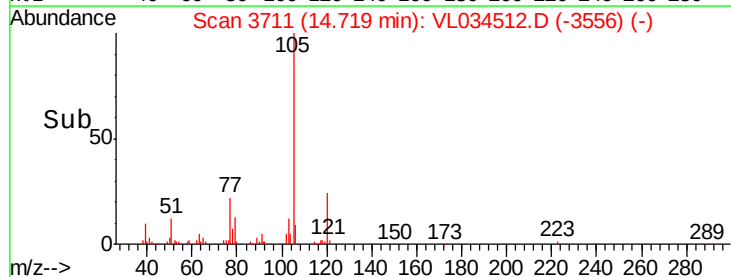
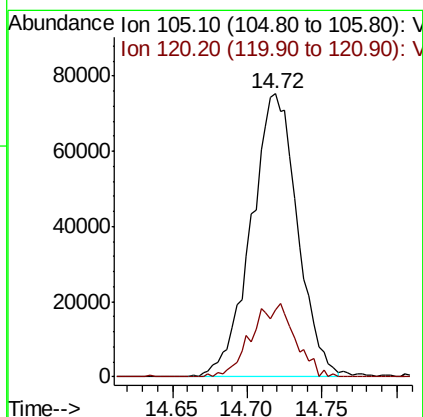
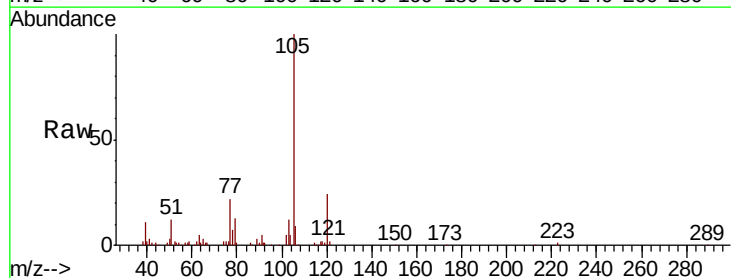
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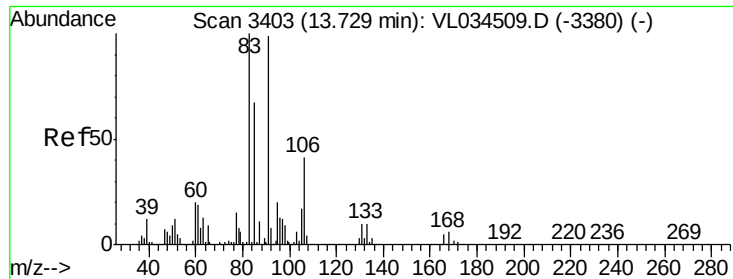
apatel
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#62
Isopropylbenzene
Concen: 0.442 ppbv
RT: 14.72 min Scan# 3711
Delta R.T. -0.00 min
Lab File: VL034512.D
Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.7	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.502 ppbv m

RT: 13.73 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

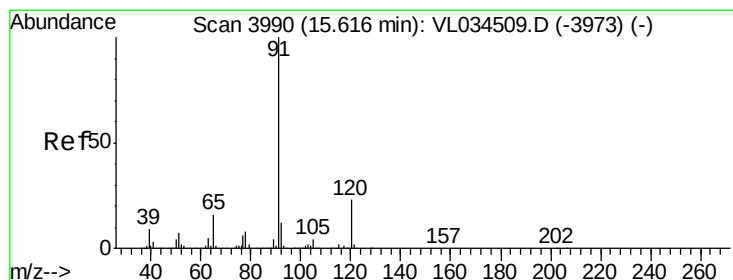
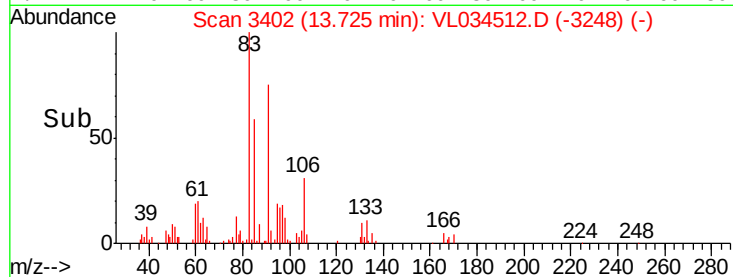
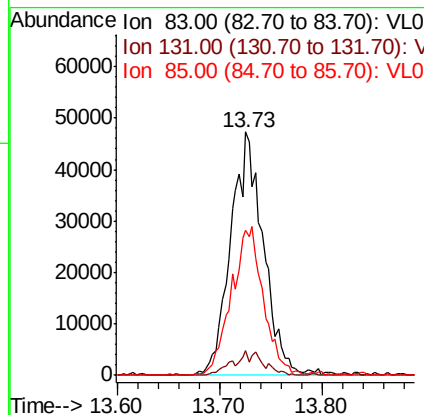
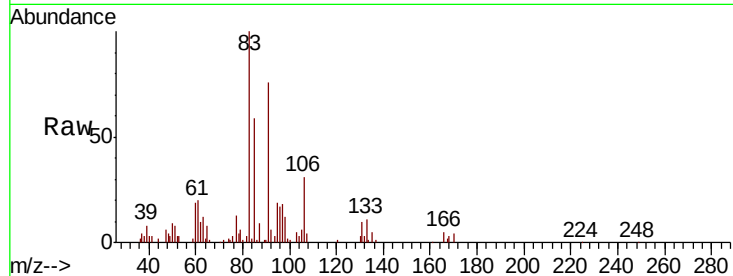
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	104443
Ion Ratio	Lower	Upper	
83	100		
131	9.1	4.8	14.4
85	60.4	32.5	97.4

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#64

n-propylbenzene

Concen: 0.417 ppbv m

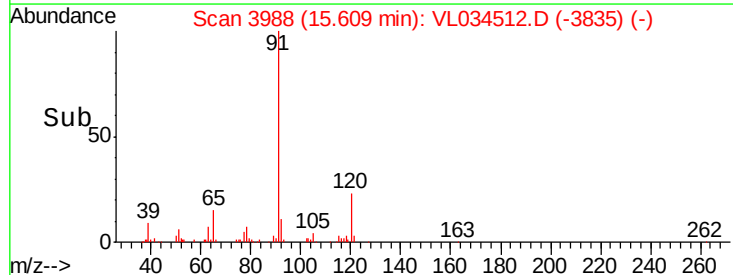
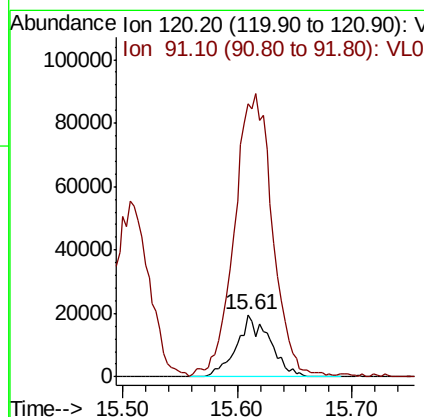
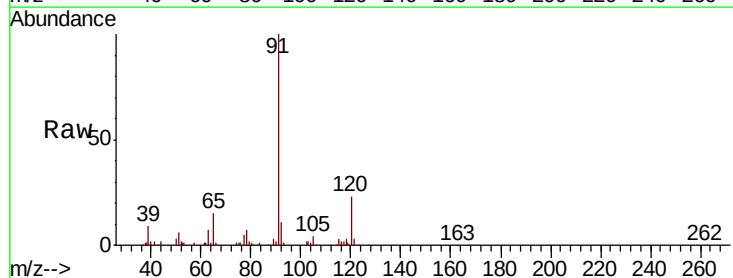
RT: 15.61 min Scan# 3988

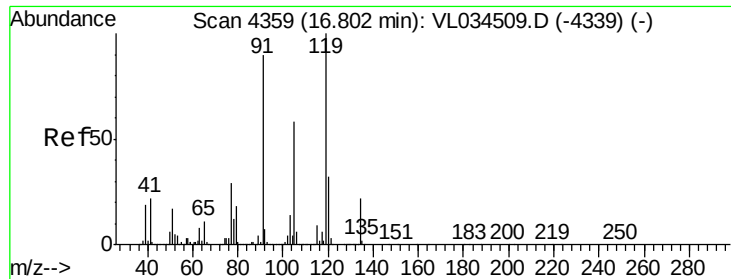
Delta R.T. -0.01 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion:	120	Resp:	39657
Ion Ratio	Lower	Upper	
120	100		
91	296.0	375.6	563.4#





#65

tert-Butylbenzene

Concen: 0.432 ppbv m

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

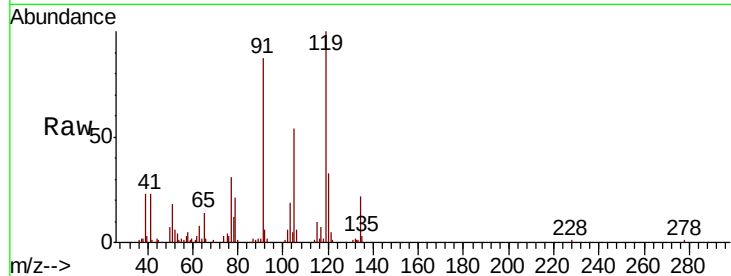
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	142127
Ion Ratio	Lower	Upper	
119	100		
91	92.7	72.0	108.0
134	19.3	16.1	24.1

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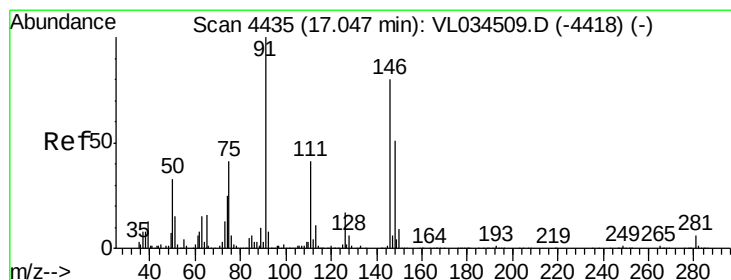
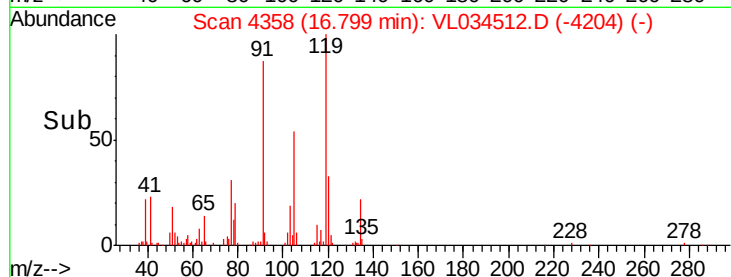
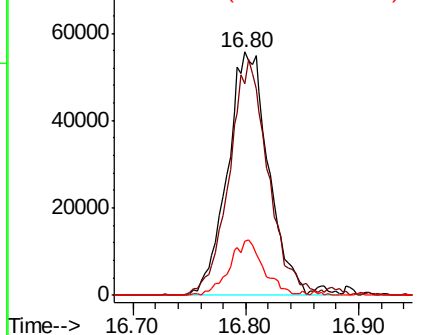
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.425 ppbv m

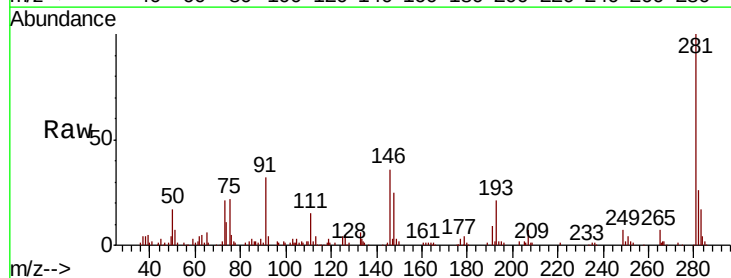
RT: 17.04 min Scan# 4433

Delta R.T. -0.01 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

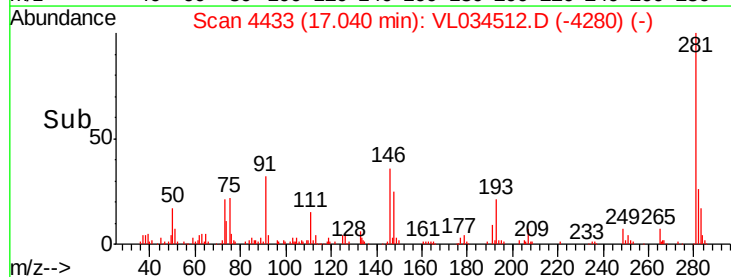
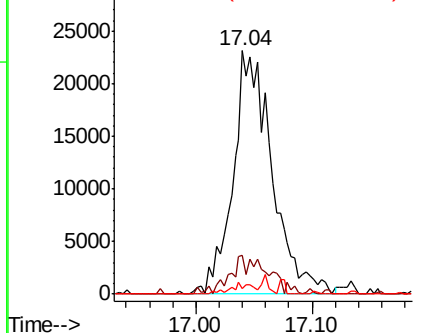
Tgt Ion:	91	Resp:	53753
Ion Ratio	Lower	Upper	
91	100		
126	15.4	13.1	19.7
128	2.5	4.2	6.4#

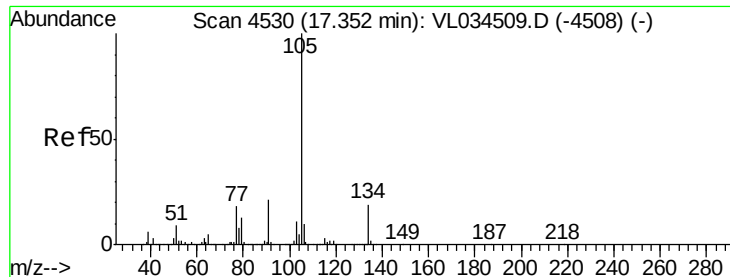


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.434 ppbv m

RT: 17.35 min Scan# 4529

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 199679

Ion Ratio Lower Upper

105 100

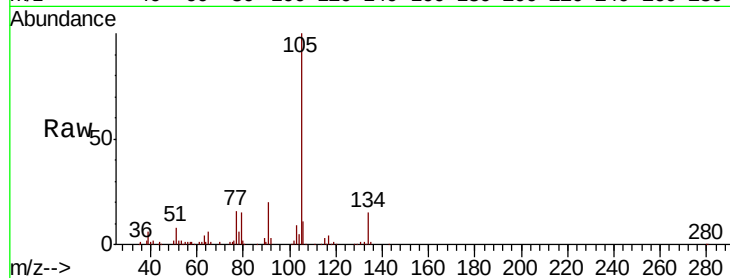
134 17.0 15.1 22.7

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.35

100000

80000

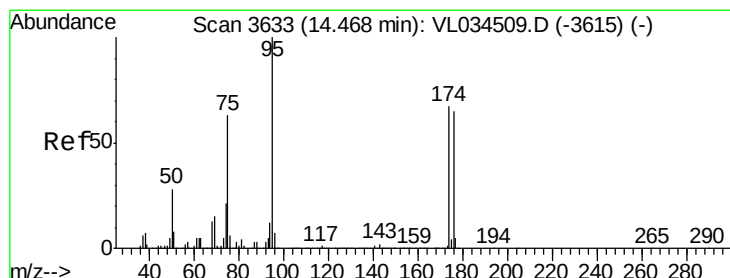
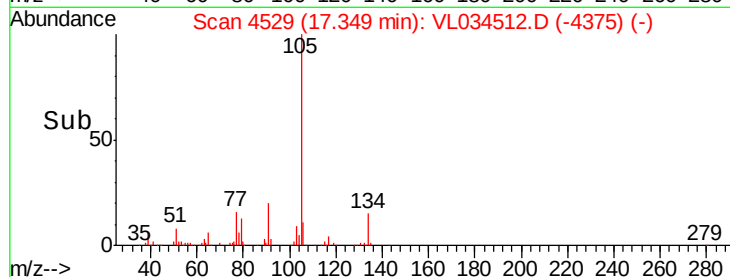
60000

40000

20000

0

Time--> 17.20 17.30 17.40 17.50



#68

1-Bromo-4-Fluorobenzene

Concen: 10.111 ppbv

RT: 14.46 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

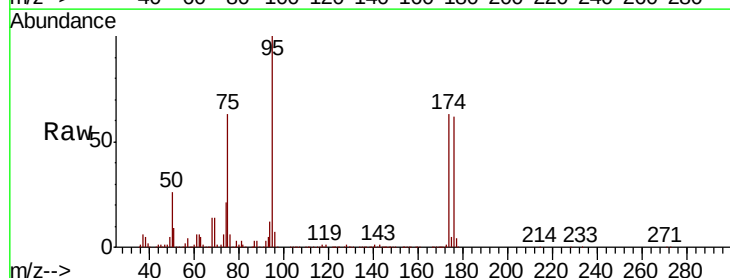
Tgt Ion: 95 Resp: 1774260

Ion Ratio Lower Upper

95 100

174 64.1 52.4 78.6

175 4.7 3.9 5.9



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

14.46

1000000

800000

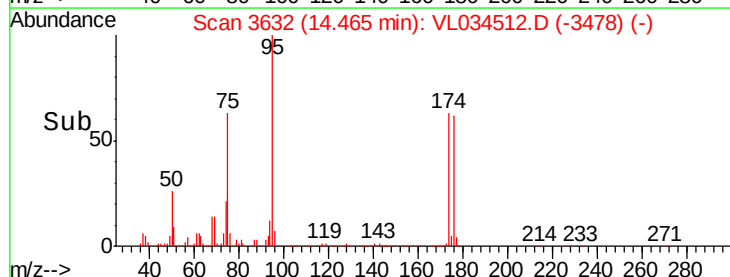
600000

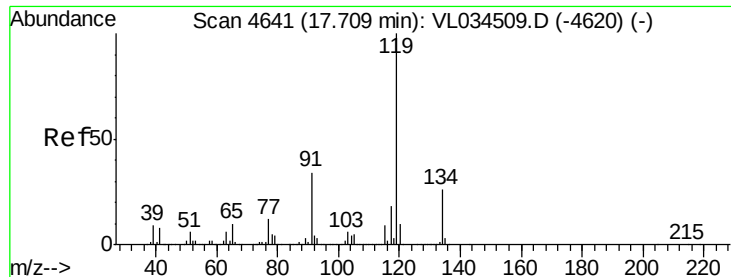
400000

200000

0

Time--> 14.40 14.50





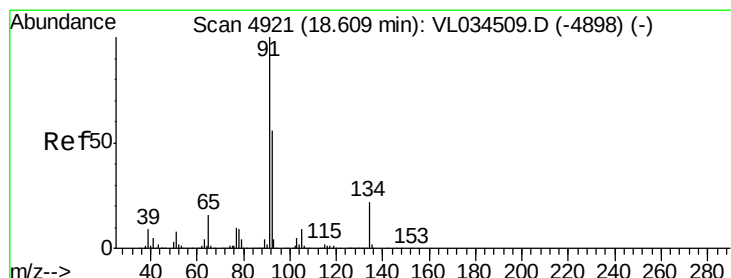
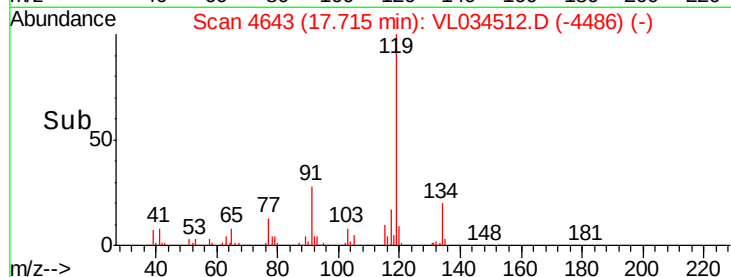
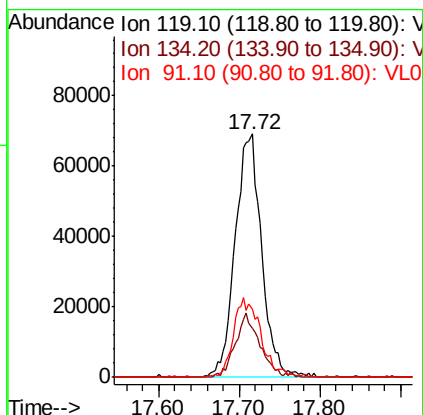
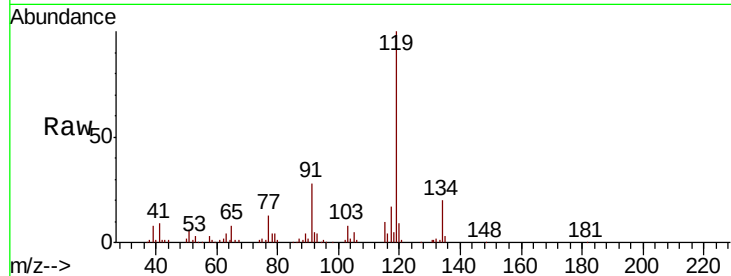
#69
 p-Isopropyltoluene
 Concen: 0.403 ppbv m
 RT: 17.72 min Scan# 4643
 Delta R.T. 0.01 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	153707		
134	24.6	20.7	31.1	
91	34.1	26.6	39.8	

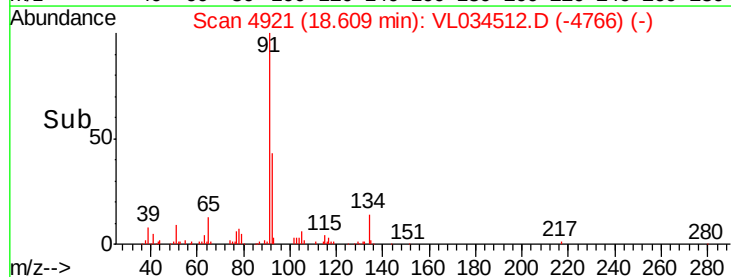
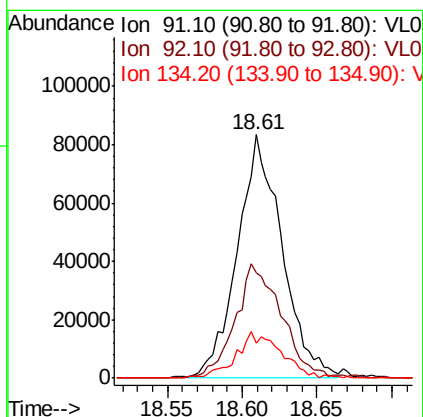
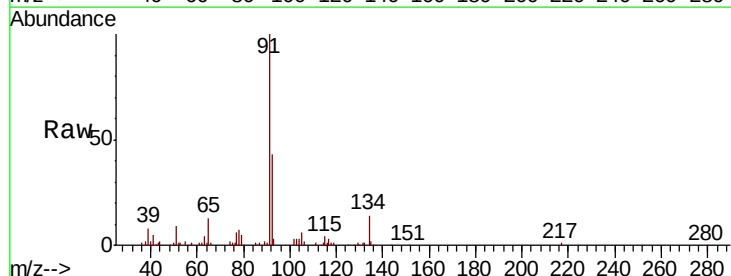
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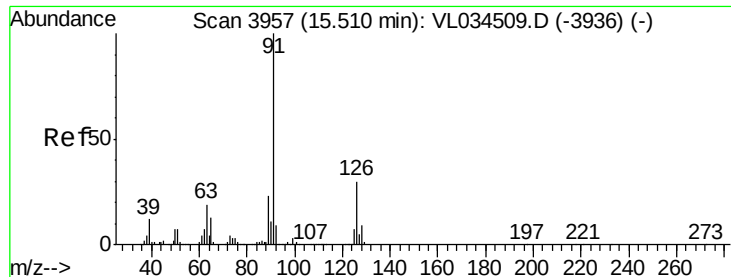
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#70
 n-Butylbenzene
 Concen: 0.419 ppbv
 RT: 18.61 min Scan# 4921
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	172042		
92	49.4	43.8	65.6	
134	19.5	18.0	27.0	





#71

2-Chlorotoluene

Concen: 0.401 ppbv

RT: 15.51 min Scan# 3956

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 117098

Ion Ratio Lower Upper

91 100

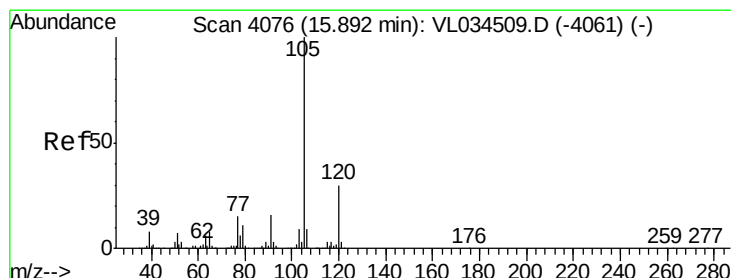
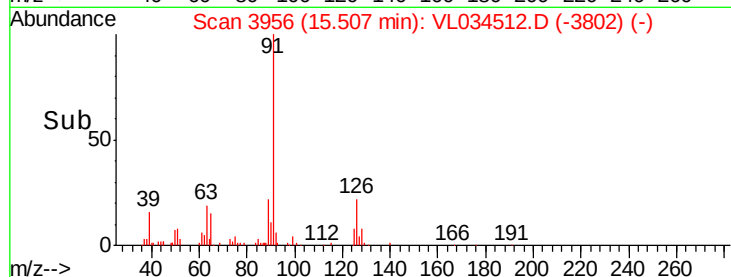
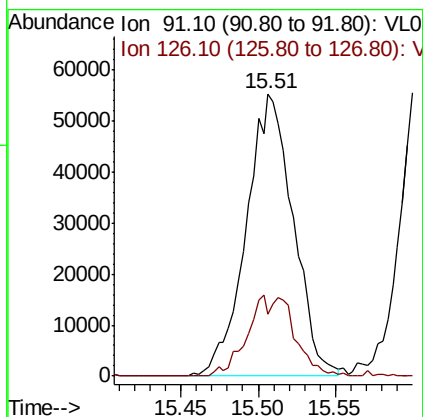
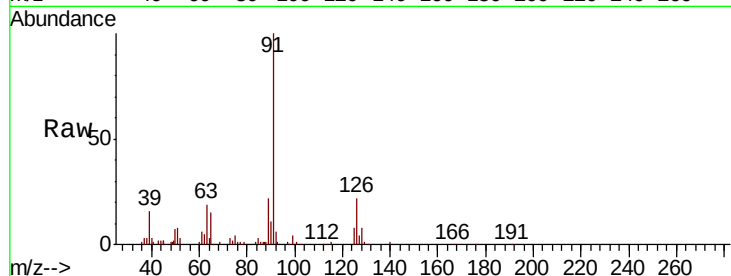
126 28.8 12.0 47.8

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#72

4-Ethyltoluene

Concen: 0.404 ppbv

RT: 15.89 min Scan# 4076

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion: 105 Resp: 129216

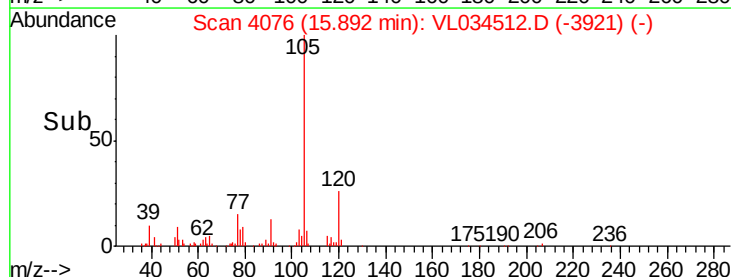
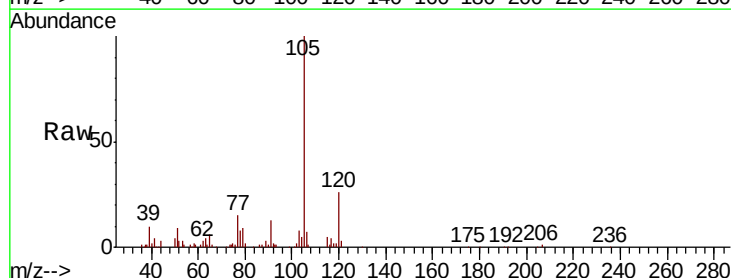
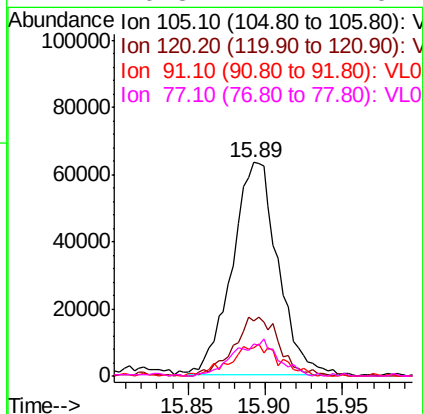
Ion Ratio Lower Upper

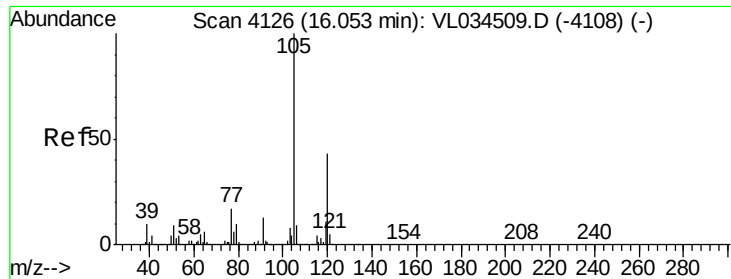
105 100

120 27.8 23.7 35.5

91 16.1 11.5 17.3

77 16.8 12.7 19.1





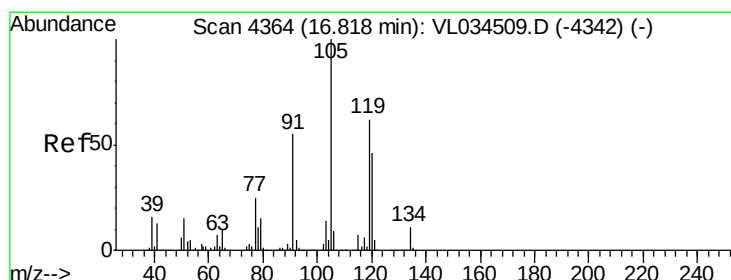
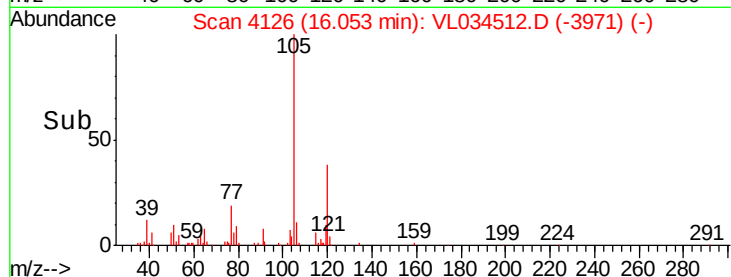
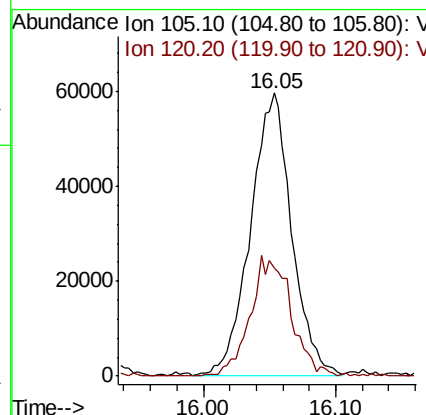
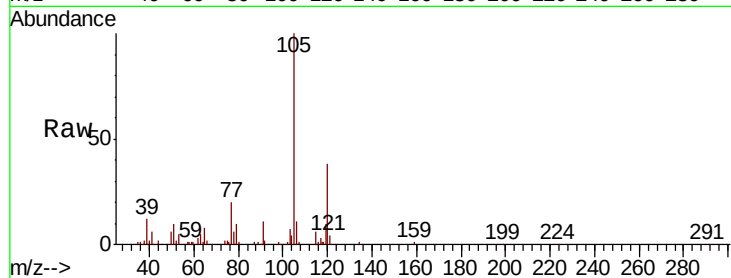
#73
 1,3,5-Trimethylbenzene
 Concen: 0.413 ppbv
 RT: 16.05 min Scan# 4126
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
120	38.1	34.6	52.0

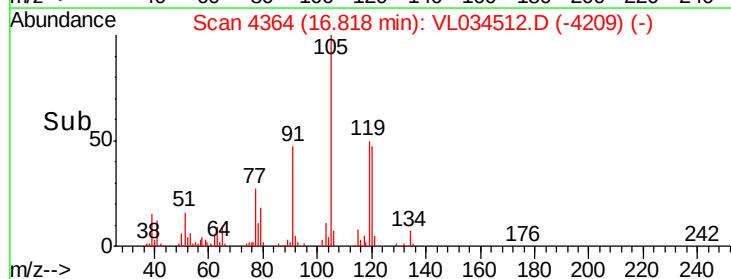
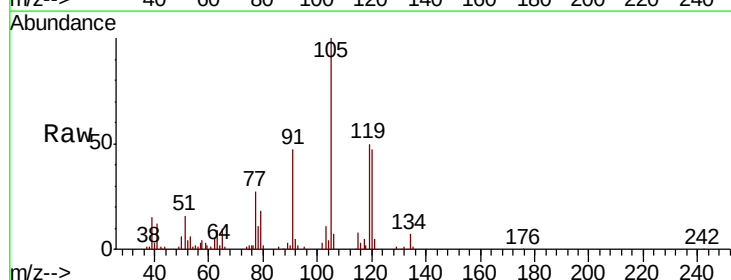
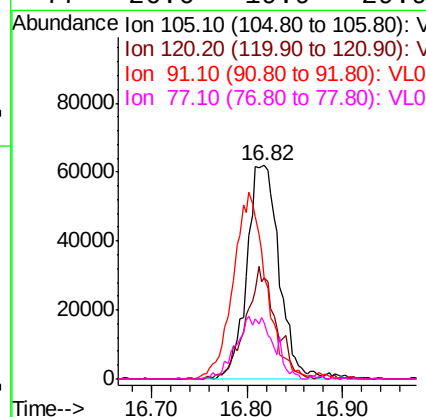
Manual Integrations
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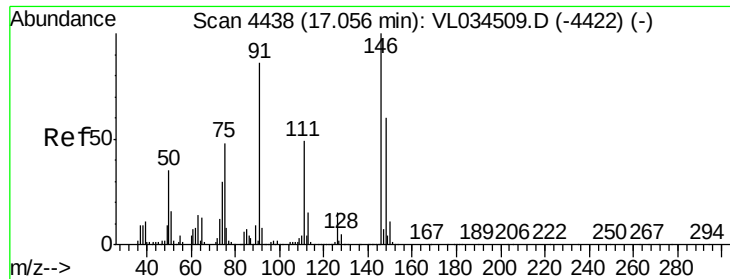
apatel
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.441 ppbv m
 RT: 16.82 min Scan# 4364
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	36.7	55.1
91	47.2	44.0	66.0
77	26.6	19.9	29.9





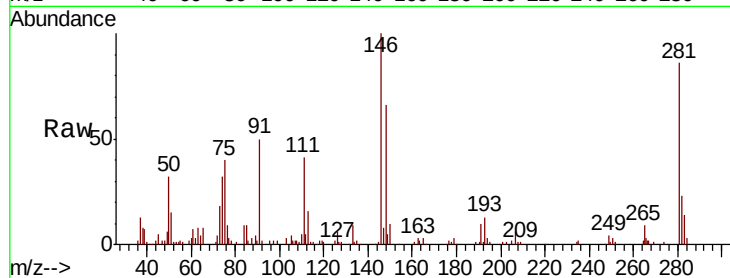
#75
 1,3-Dichlorobenzene
 Concen: 0.504 ppbv m
 RT: 17.05 min Scan# 4437
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	25.1	75.3#
148	63.5	33.0	99.0

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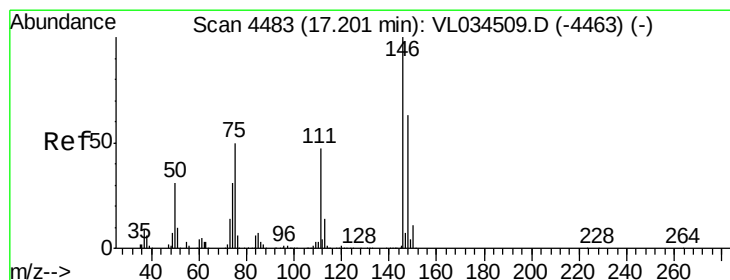
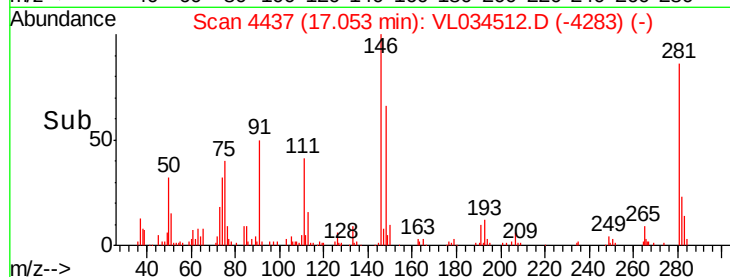
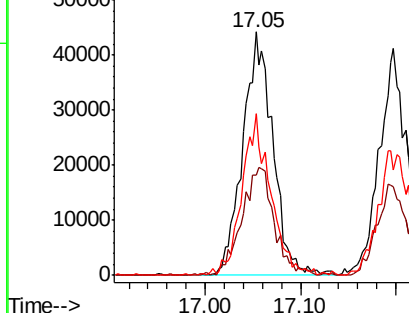


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76
 1,4-Dichlorobenzene
 Concen: 0.469 ppbv m
 RT: 17.20 min Scan# 4482
 Delta R.T. -0.00 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

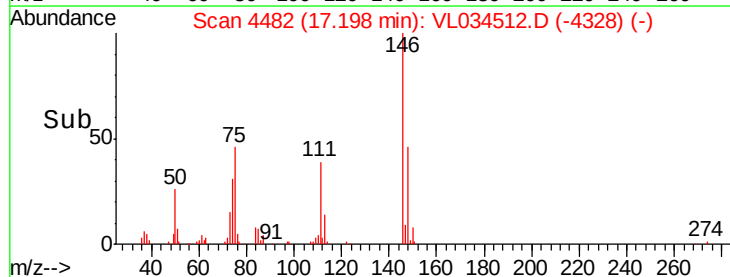
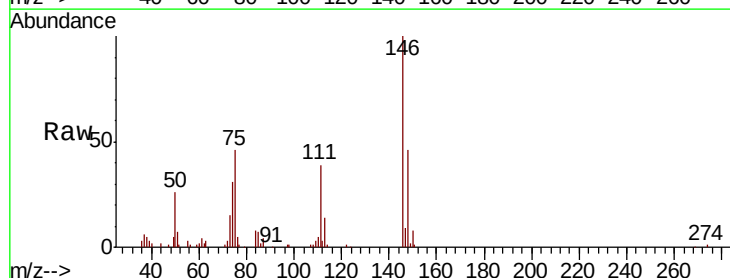
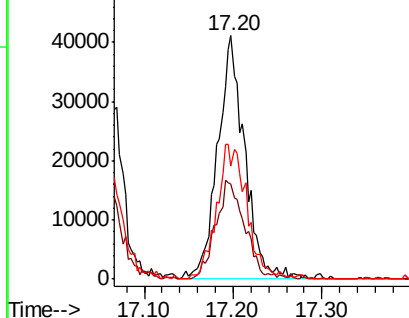
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	23.5	70.6
148	61.9	32.1	96.3

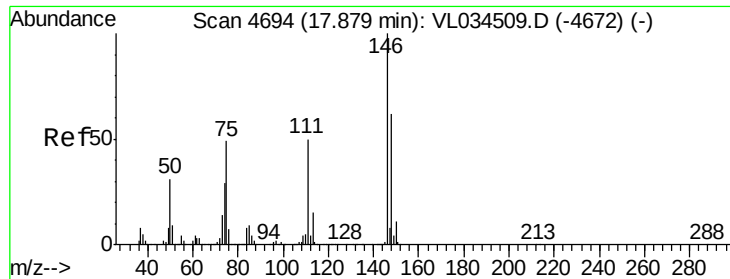
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.475 ppbv m

RT: 17.88 min Scan# 4695

Delta R.T. 0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

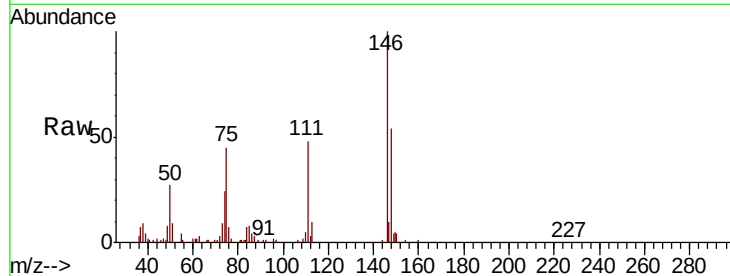
ClientSampled :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	25.3	75.8#
148	64.6	32.1	96.3

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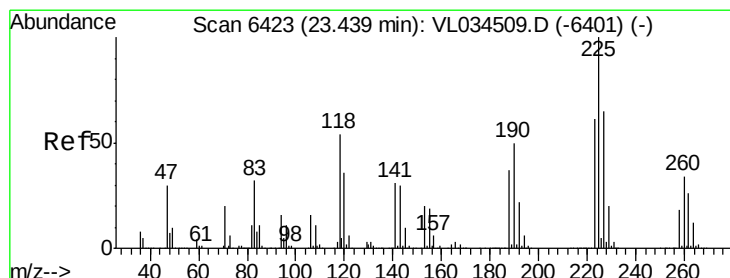
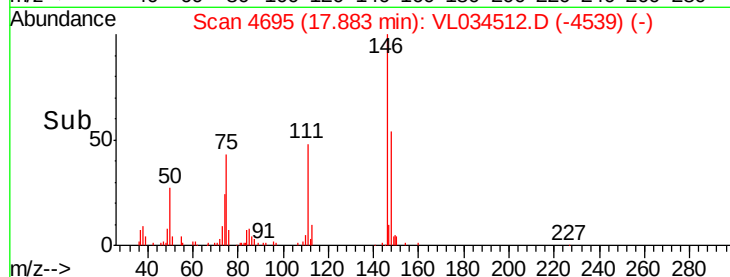
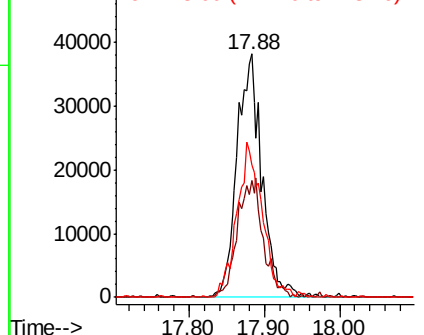


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.525 ppbv m

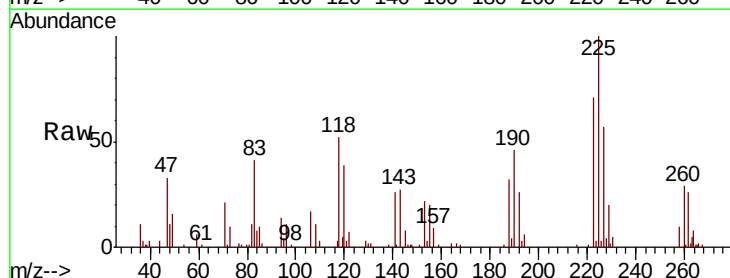
RT: 23.44 min Scan# 6423

Delta R.T. -0.00 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	51.0	76.6
227	63.7	51.8	77.6

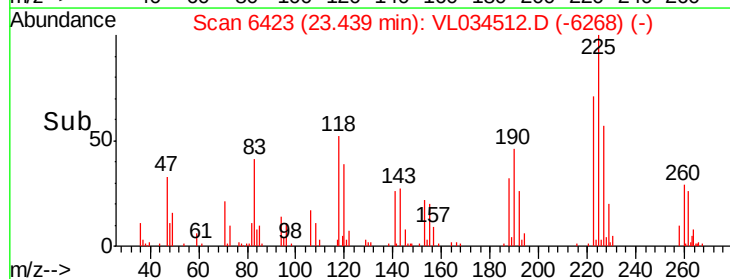
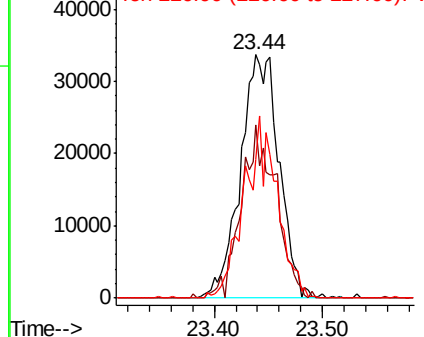


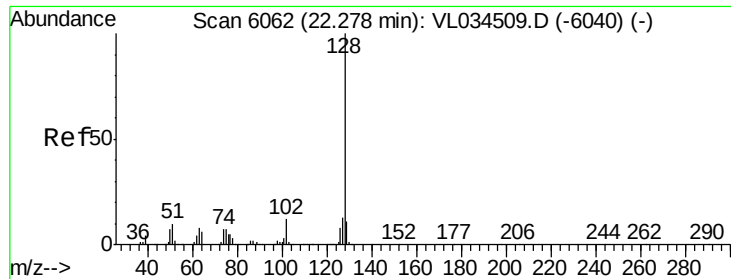
Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.282 ppbv m

RT: 22.30 min Scan# 6068

Delta R.T. 0.02 min

Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Instrument :

MSVOA_L

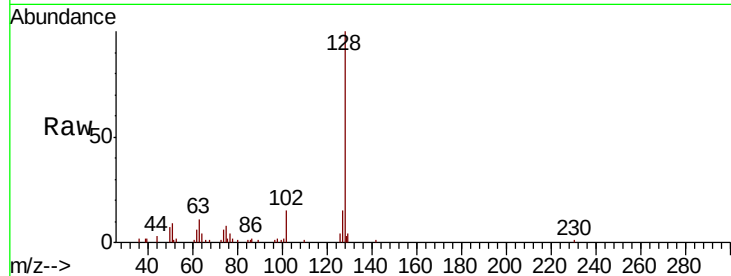
ClientSampleId :

VSTDIC0.5

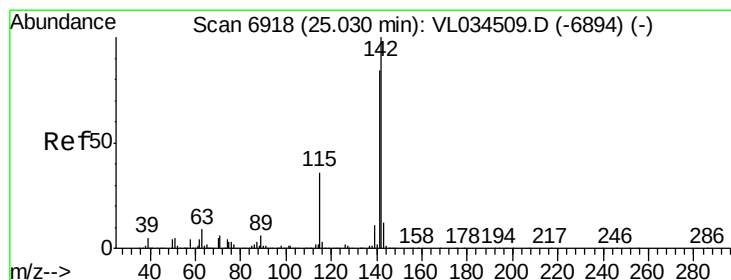
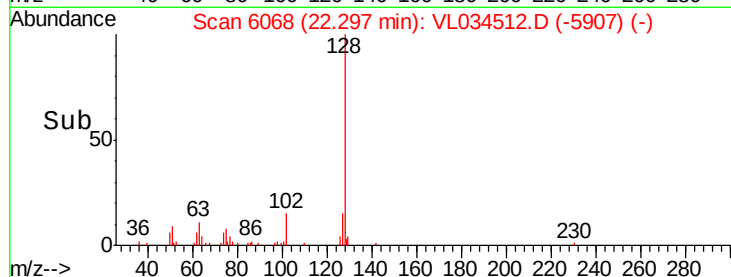
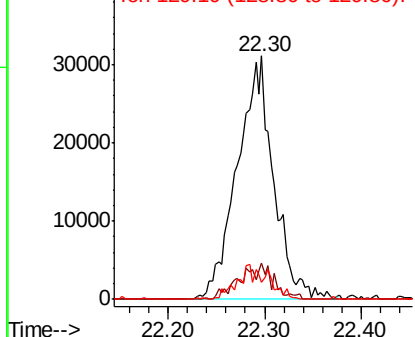
Tot Ion:	128	Resp:	81181
Ion Ratio	Lower	Upper	
128	100		
127	14.8	10.6	15.8
129	3.7	8.7	13.1#

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



#80

Naphthalene, 2-methyl-

Concen: 0.094 ppbv

RT: 25.03 min Scan# 6919

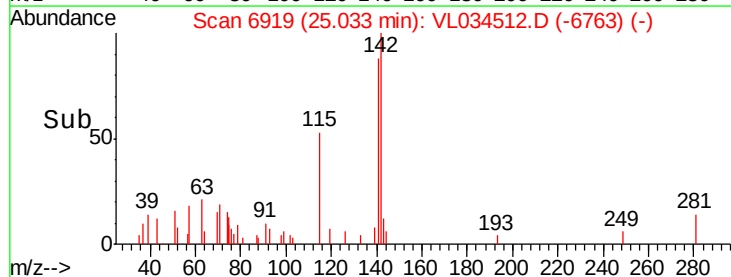
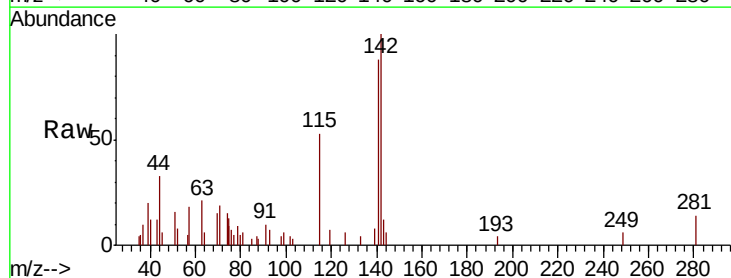
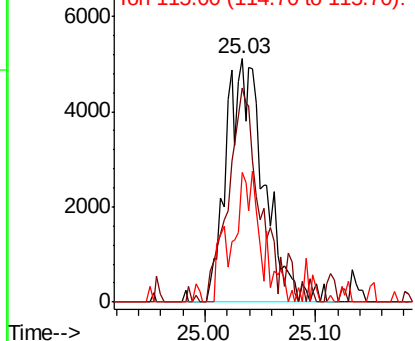
Delta R.T. 0.00 min

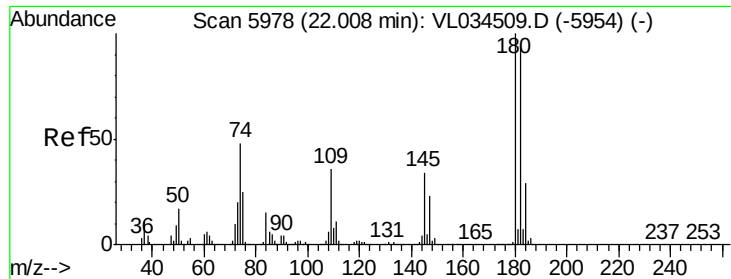
Lab File: VL034512.D

Acq: 30 Dec 2019 12:20

Tgt Ion:	142	Resp:	12192
Ion Ratio	Lower	Upper	
142	100		
141	76.1	65.8	98.8
115	43.4	30.4	45.6

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





#81
 1,2,4-Trichlorobenzene
 Concen: 0.361 ppbv m
 RT: 22.02 min Scan# 5982
 Delta R.T. 0.01 min
 Lab File: VL034512.D
 Acq: 30 Dec 2019 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.8	116.8#
184	31.7	25.2	37.8

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:43 AM

