

Data File : VL034089.D
Acq On : 5 Aug 2019 14:39
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Quant Time: Aug 05 15:55:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 13:52:58 2019
QLast Update : Mon Aug 05 13:52:58 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1080913	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2194260	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2253513	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1855485	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	87625	0.425	ppbv	90
3) Chlorodifluoromethane	2.98	51	68657	0.539	ppbv	98
4) Chloromethane	3.14	50	41538	0.565	ppbv	98
5) Vinyl Chloride	3.26	62	37361	0.513	ppbv	94
6) Bromomethane	3.49	94	19282	0.354	ppbv	99
7) Chloroethane	3.57	64	14966	0.426	ppbv #	71
8) Dichlorotetrafluoroethane	3.19	85	84848	0.421	ppbv	92
9) Propene	3.01	41	40125	0.816	ppbv	100
10) Heptane	8.19	43	101600	0.746	ppbv	98
11) Trichlorofluoromethane	3.96	101	42522	0.206	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.51	101	60925	0.387	ppbv	95
13) Ethanol	3.62	45	14564	0.730	ppbv	96
14) Bromoethene	3.75	108	25793	0.293	ppbv	97
15) Acetone	3.87	43	91046	0.512	ppbv	97
16) 1,3-Butadiene	3.34	39	40397	0.621	ppbv	98
17) tert-Butyl alcohol	4.34	59	81188	0.629	ppbv #	93
18) 1,1-Dichloroethene	4.31	96	15540	0.226	ppbv	87
19) Isopropyl Alcohol	4.00	45	38368	0.349	ppbv #	44
20) Methylene Chloride	4.37	84	26114	0.408	ppbv	85
21) Allyl Chloride	4.44	41	57796	0.536	ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	28352	0.404	ppbv	99
23) Vinyl Acetate	5.11	43	139065	0.759	ppbv #	94
24) 1,1-Dichloroethane	5.05	63	84165	0.547	ppbv	99
25) Ethyl Acetate	5.73	43	169394	0.644	ppbv	99
26) Hexane	5.73	57	72162	0.606	ppbv	95
27) Carbon Disulfide	4.58	76	69109	0.390	ppbv #	92
28) Methyl tert-Butyl Ether	5.08	73	119180	0.666	ppbv	99
29) Chloroform	5.80	83	92980	0.449	ppbv	95
30) Cyclohexane	7.19	84	30386	0.320	ppbv #	11
31) cis-1,2-Dichloroethene	5.59	61	67118	0.574	ppbv	93
32) 1,1,1-Trichloroethane	6.57	97	87093	0.398	ppbv	97
34) 2-Butanone	5.29	43	110474	0.879	ppbv	100
35) Carbon Tetrachloride	7.08	117	83230	0.469	ppbv	97
36) Benzene	6.95	78	142359	0.681	ppbv #	92
37) 1,2-Dichloroethane	6.36	62	73030	0.535	ppbv #	96
38) Trichloroethene	7.90	130	47695	0.675	ppbv	95
39) 1,2-Dichloropropane	7.68	63	34930	0.462	ppbv	92
40) 1,4-Dioxane	7.93	88	7207	0.249	ppbv #	1
41) Tetrahydrofuran	6.12	42	36607	0.543	ppbv #	47
42) Bromodichloromethane	7.86	83	98122	0.570	ppbv #	98
43) Methyl Methacrylate	8.09	69	55134	0.764	ppbv	97

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Instrument :
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VSTDIC0.5

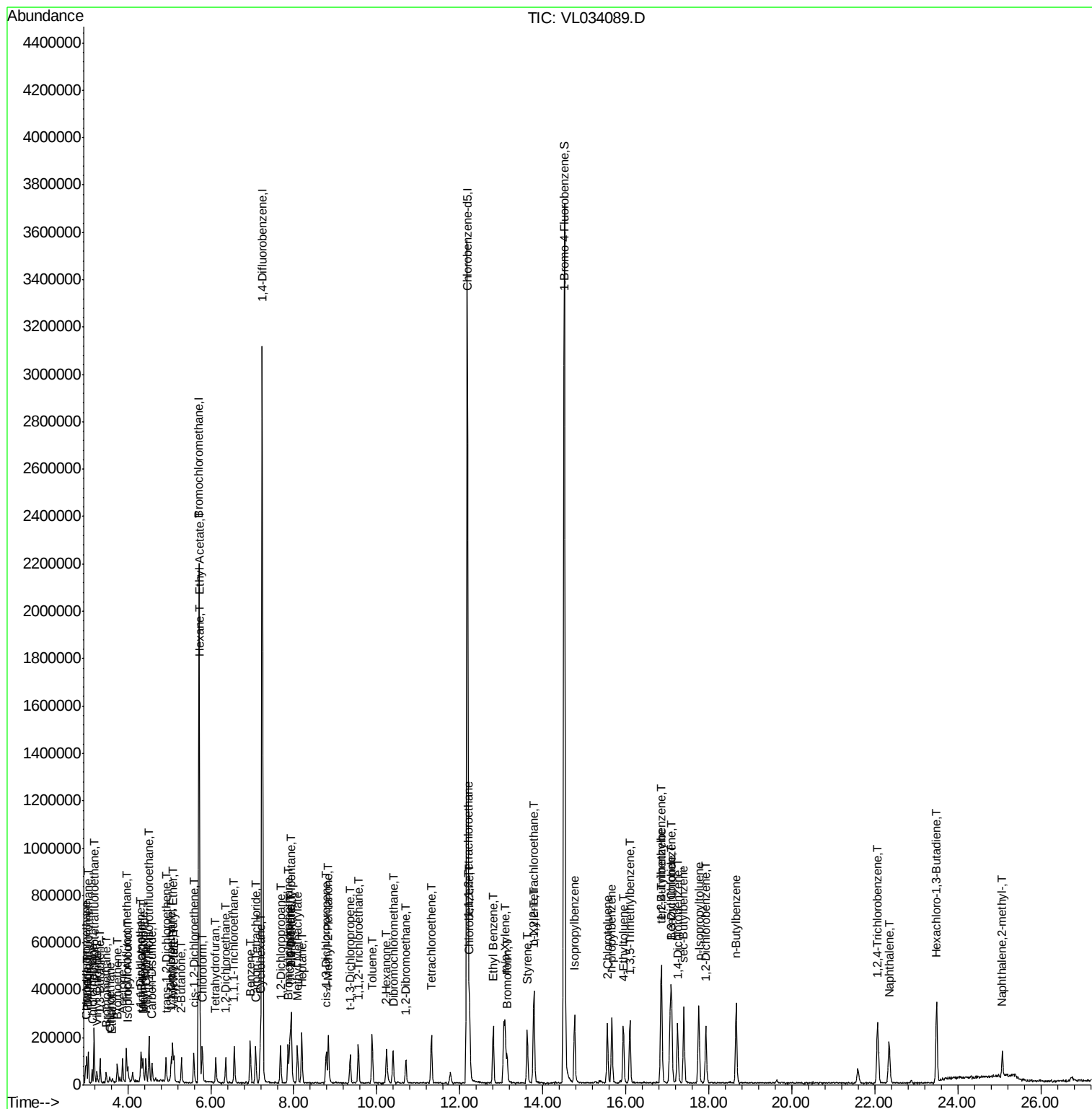
Quant Time: Aug 05 15:55:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 13:52:58 2019
QLast Update : Mon Aug 05 13:52:58 2019
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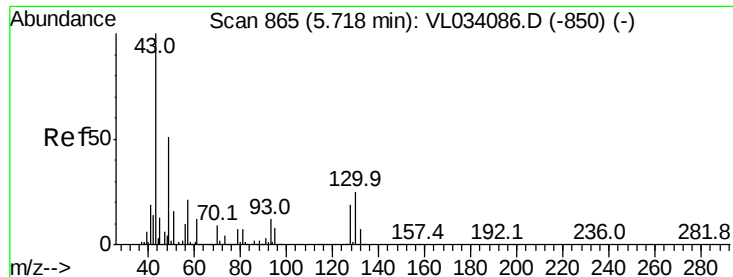
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	158170	0.506	ppbv #	69
45) t-1,3-Dichloropropene	9.35	75	39317	0.441	ppbv	89
46) cis-1,3-Dichloropropene	8.78	75	77495	0.749	ppbv #	92
47) 1,1,2-Trichloroethane	9.55	97	50180	0.616	ppbv	95
48) Dibromochloromethane	10.39	129	80413	0.583	ppbv	99
49) Bromoform	13.14	173	68767	0.576	ppbv	98
50) 4-Methyl-2-Pentanone	8.83	43	174196	0.933	ppbv	94
51) 2-Hexanone	10.23	43	51868	0.360	ppbv #	29
52) Tetrachloroethene	11.31	164	32656	0.535	ppbv	92
53) Toluene	9.89	91	157375	0.757	ppbv	100
54) 1,2-Dibromoethane	10.70	107	78514	0.649	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.22	131	56867	0.572	ppbv #	1
57) Chlorobenzene	12.24	112	119530	0.650	ppbv	97
58) Ethyl Benzene	12.80	91	223667	0.752	ppbv	91
59) m/p-Xylene	13.09	91	144688	0.544	ppbv #	29
60) o-Xylene	13.79	91	179952	0.674	ppbv	100
61) Styrene	13.62	104	139512	0.798	ppbv	97
62) Isopropylbenzene	14.76	105	241662	0.689	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.77	83	57954	0.276	ppbv #	14
64) n-propylbenzene	15.67	120	9129	0.103	ppbv #	1
65) tert-Butylbenzene	16.84	119	108173	0.344	ppbv #	17
66) Benzyl Chloride	17.09	91	35823	0.233	ppbv #	45
67) sec-Butylbenzene	17.40	105	309346	0.686	ppbv	95
69) p-Isopropyltoluene	17.76	119	259182	0.706	ppbv	95
70) n-Butylbenzene	18.65	91	147928	0.369	ppbv #	49
71) 2-Chlorotoluene	15.55	91	195160	0.752	ppbv	97
72) 4-Ethyltoluene	15.94	105	205023	0.685	ppbv	97
73) 1,3,5-Trimethylbenzene	16.09	105	196383	0.666	ppbv	87
74) 1,2,4-Trimethylbenzene	16.86	105	217361	0.667	ppbv	95
75) 1,3-Dichlorobenzene	17.09	146	43463	0.225	ppbv #	23
76) 1,4-Dichlorobenzene	17.25	146	118731	0.651	ppbv	97
77) 1,2-Dichlorobenzene	17.93	146	115092	0.635	ppbv	98
78) Hexachloro-1,3-Butadiene	23.48	225	45434	0.273	ppbv #	15
79) Naphthalene	22.34	128	102090	0.350	ppbv	99
80) Naphthalene,2-methyl-	25.07	142	56296	0.502	ppbv	95
81) 1,2,4-Trichlorobenzene	22.06	180	74922	0.415	ppbv #	43

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.01 min

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MSVOA_L

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VSTDIC0.5

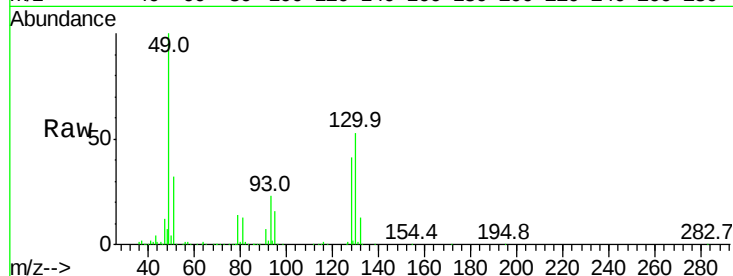
Tgt Ion: 49 Resp: 1080913

Ion Ratio Lower Upper

49 100

128 40.5 19.5 58.5

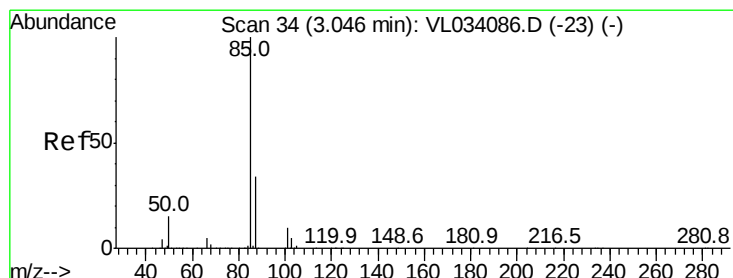
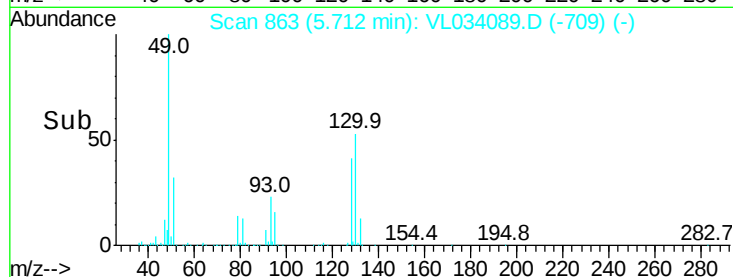
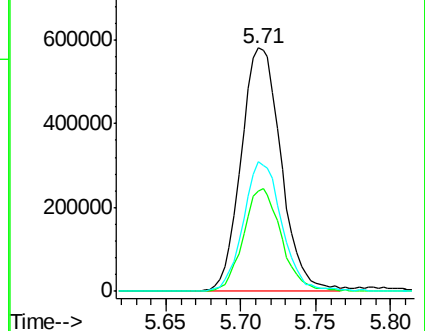
130 51.4 25.4 76.0



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: 0.425 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL034089.D

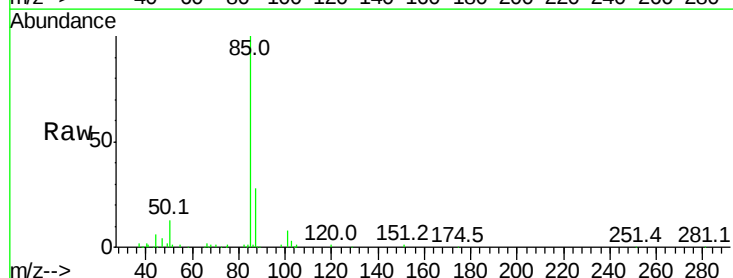
Acq: 5 Aug 2019 14:39

Tgt Ion: 85 Resp: 87625

Ion Ratio Lower Upper

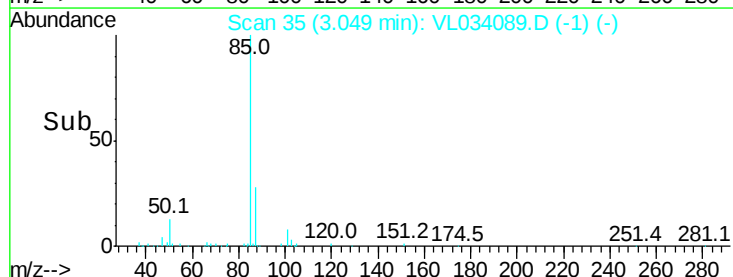
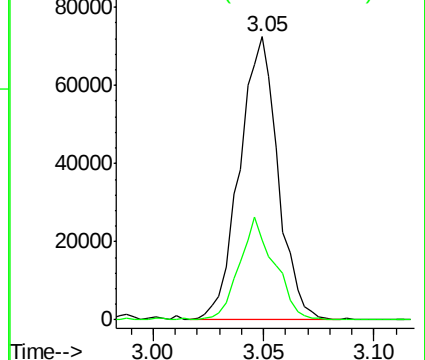
85 100

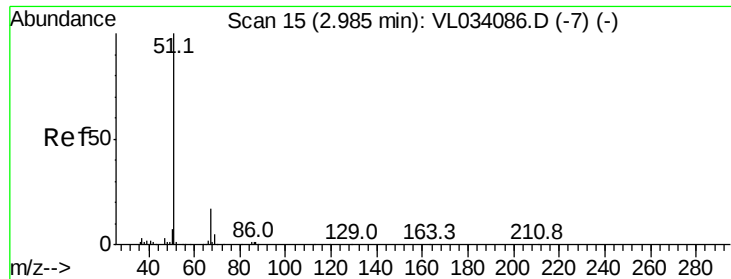
87 28.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

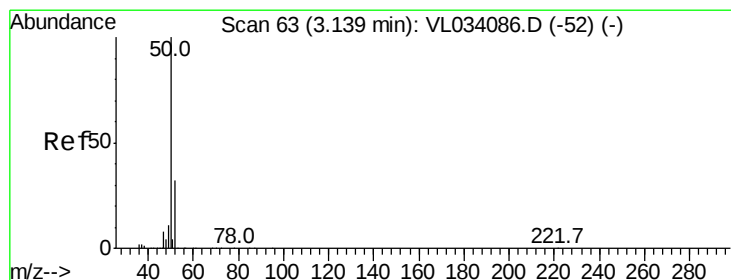
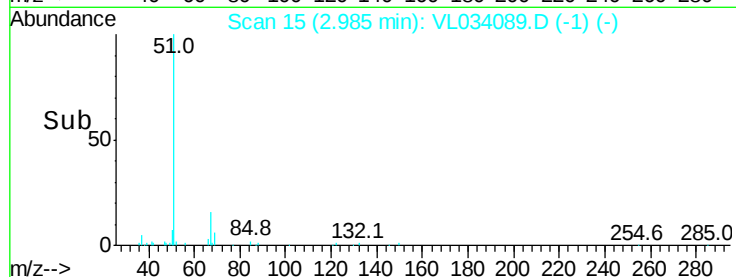
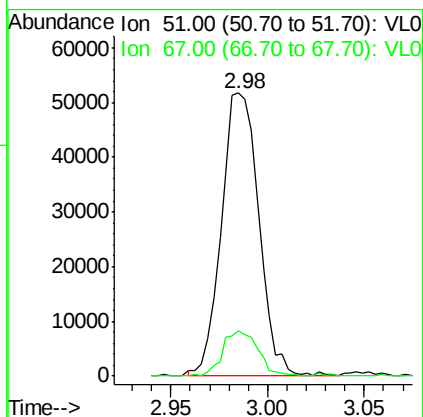
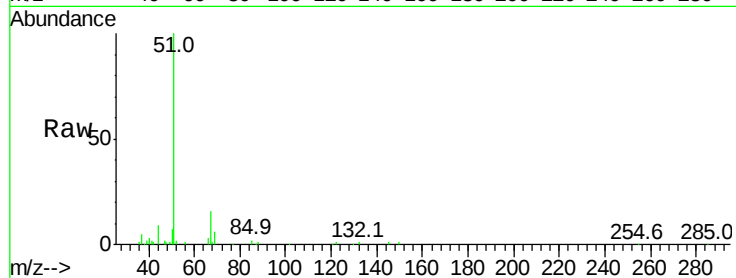




#3
 Chlorodifluoromethane
 Concen: 0.539 ppbv
 RT: 2.98 min Scan# 15
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

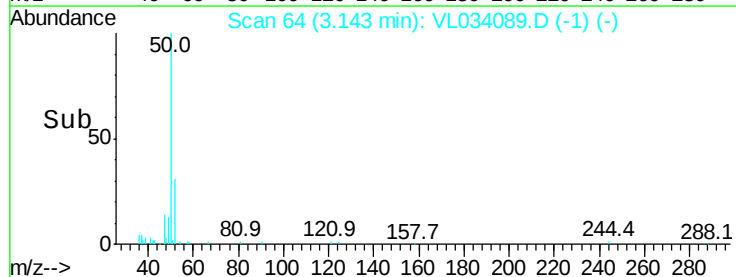
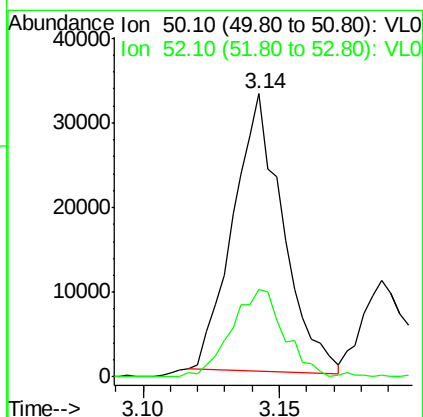
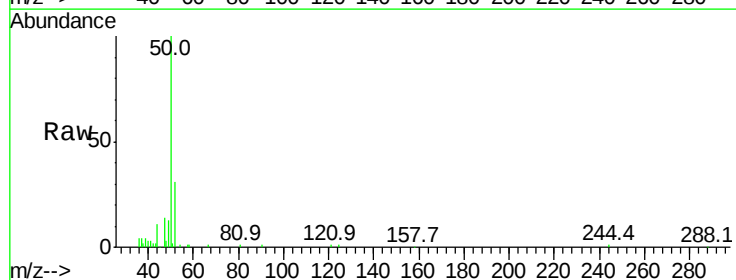
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

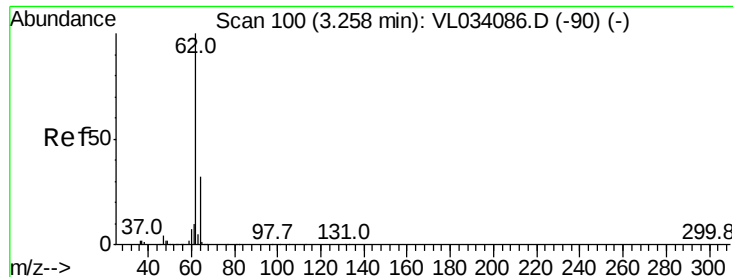
Tgt Ion: 51 Resp: 68657
 Ion Ratio Lower Upper
 51 100
 67 15.6 13.3 19.9



#4
 Chloromethane
 Concen: 0.565 ppbv
 RT: 3.14 min Scan# 64
 Delta R.T. 0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion: 50 Resp: 41538
 Ion Ratio Lower Upper
 50 100
 52 30.9 25.7 38.5





#5

Vinyl Chloride

Concen: 0.513 ppbv

RT: 3.26 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

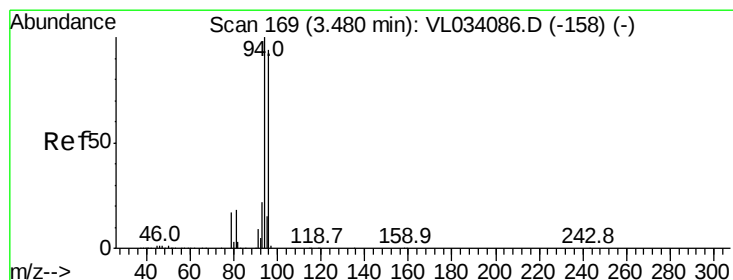
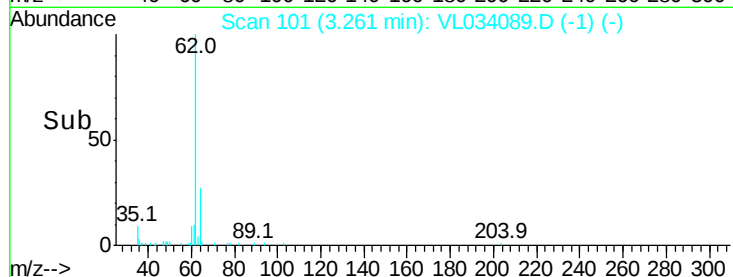
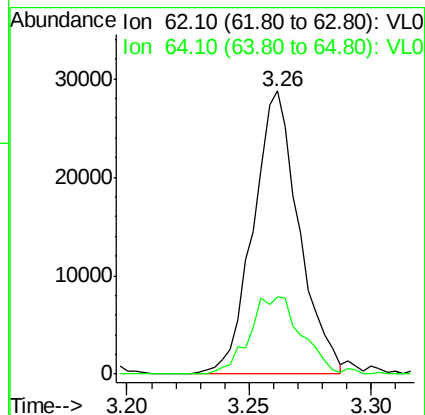
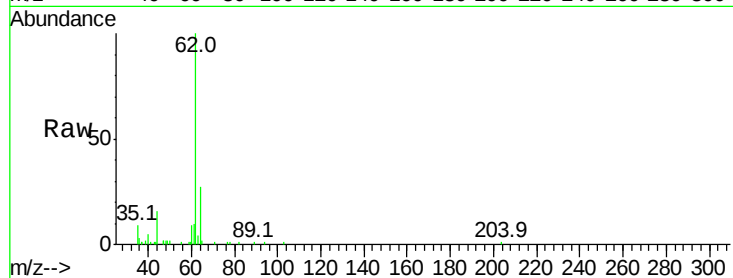
VSTDIC0.5

Tgt Ion: 62 Resp: 37361

Ion Ratio Lower Upper

62 100

64 28.8 25.8 38.6



#6

Bromomethane

Concen: 0.354 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034089.D

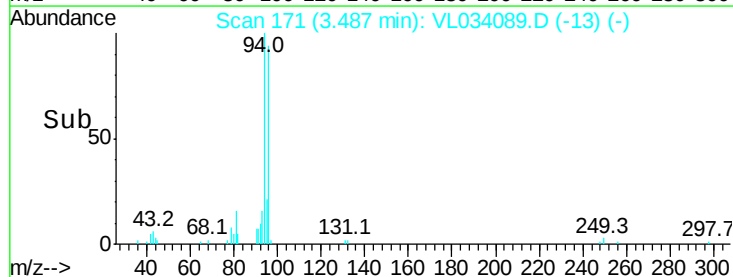
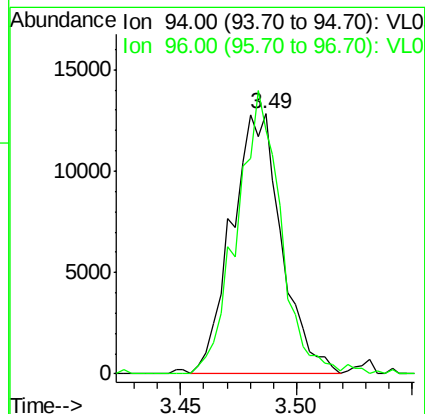
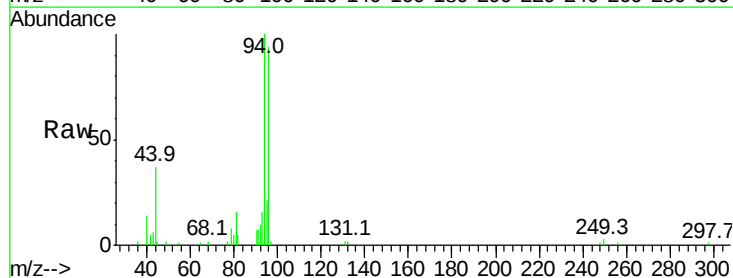
Acq: 5 Aug 2019 14:39

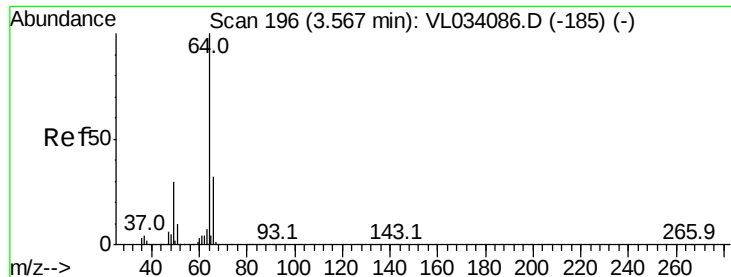
Tgt Ion: 94 Resp: 19282

Ion Ratio Lower Upper

94 100

96 93.5 75.3 112.9





#7

Chloroethane

Concen: 0.426 ppbv

RT: 3.57 min Scan# 197

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

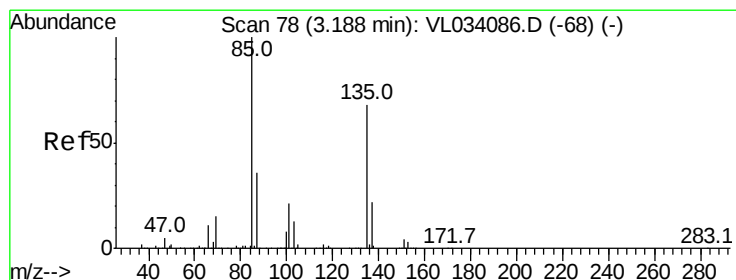
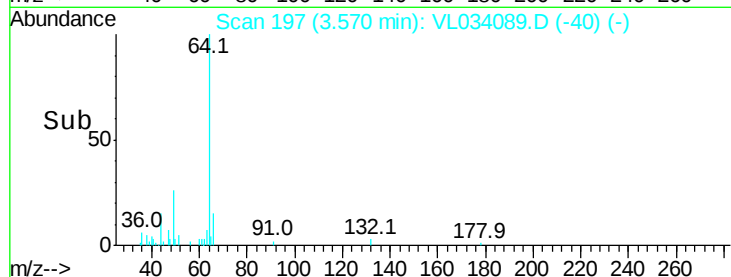
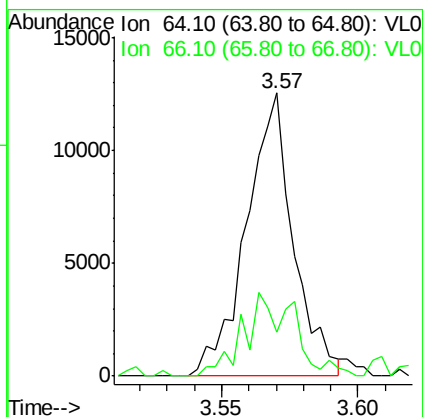
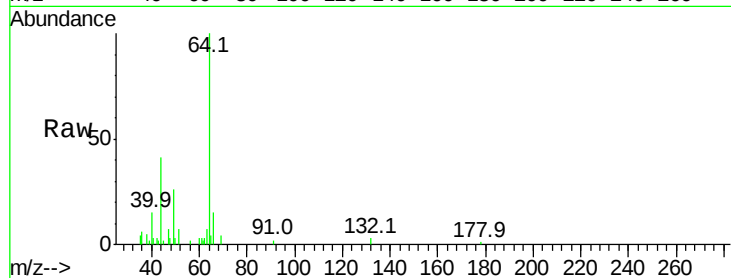
VSTDIC0.5

Tgt Ion: 64 Resp: 14966

Ion Ratio Lower Upper

64 100

66 15.4 25.2 37.8#



#8

Dichlorotetrafluoroethane

Concen: 0.421 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL034089.D

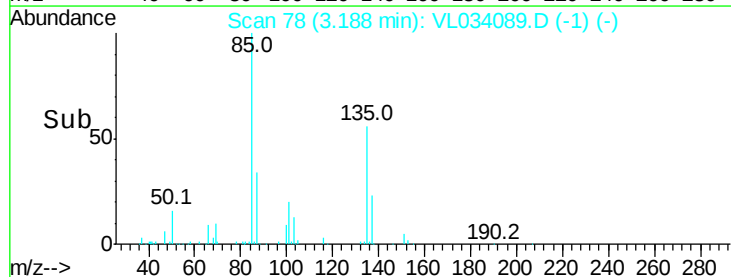
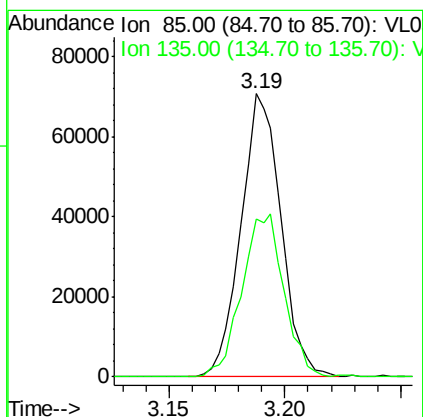
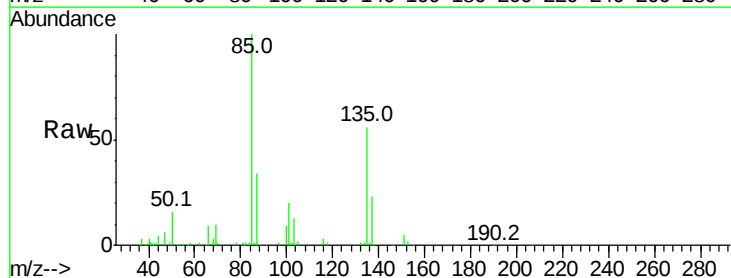
Acq: 5 Aug 2019 14:39

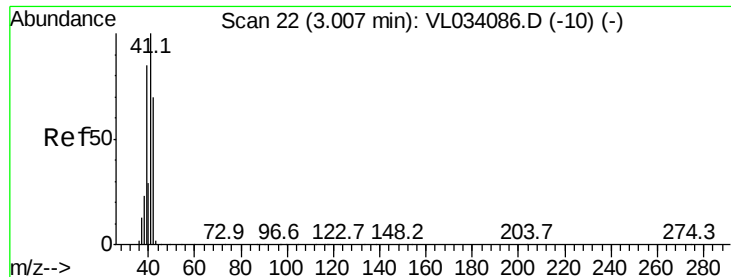
Tgt Ion: 85 Resp: 84848

Ion Ratio Lower Upper

85 100

135 60.9 54.0 81.0





#9

Propene

Concen: 0.816 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

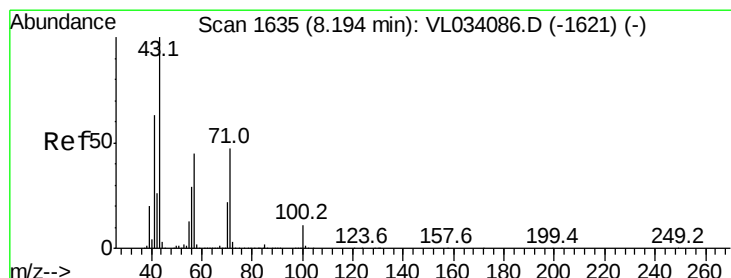
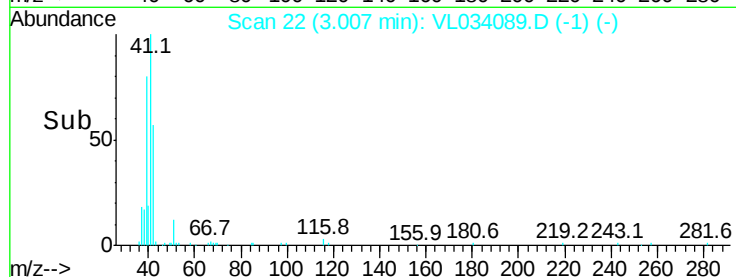
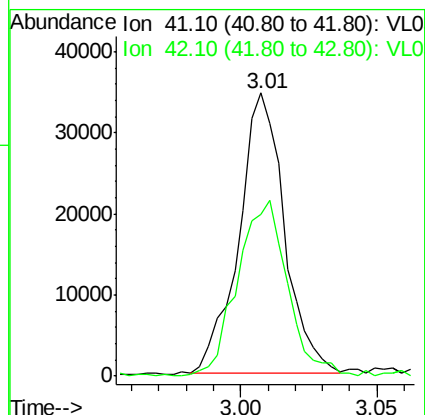
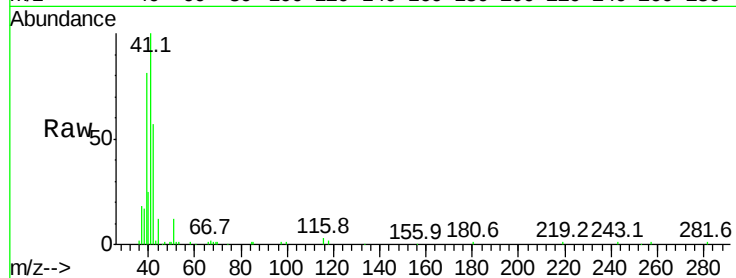
VSTDIC0.5

Tgt Ion: 41 Resp: 40125

Ion Ratio Lower Upper

41 100

42 69.6 55.8 83.6



#10

Heptane

Concen: 0.746 ppbv

RT: 8.19 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VL034089.D

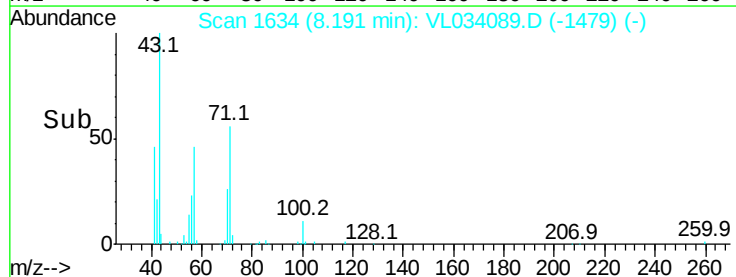
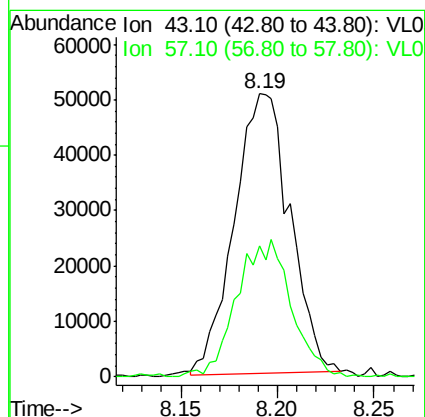
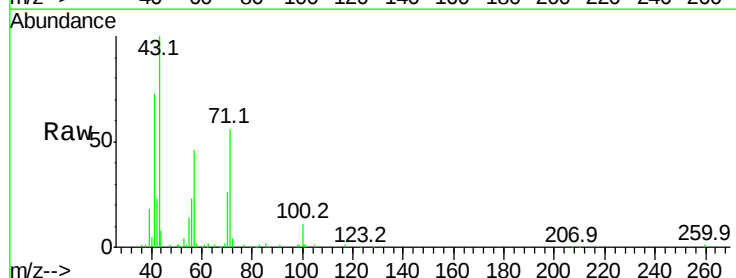
Acq: 5 Aug 2019 14:39

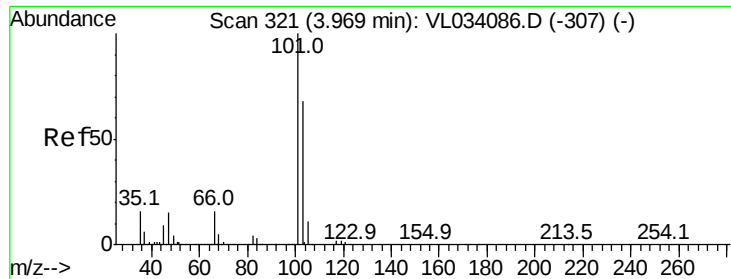
Tgt Ion: 43 Resp: 101600

Ion Ratio Lower Upper

43 100

57 48.0 37.2 55.8

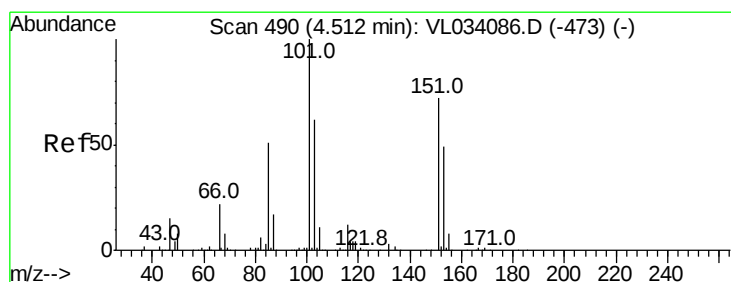
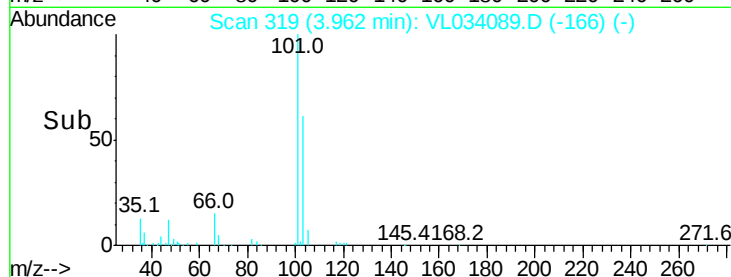
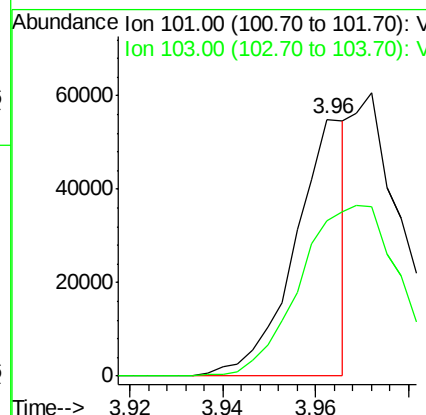
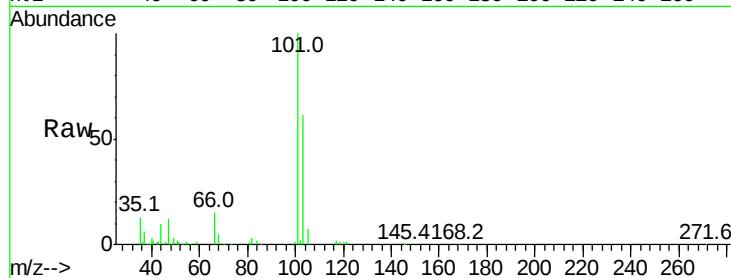




#11
 Trichlorofluoromethane
 Concen: 0.206 ppbv
 RT: 3.96 min Scan# 319
 Delta R.T. -0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

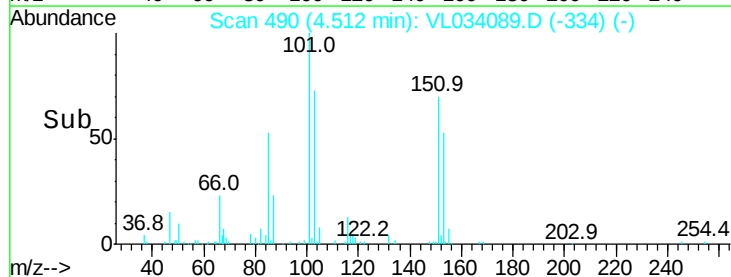
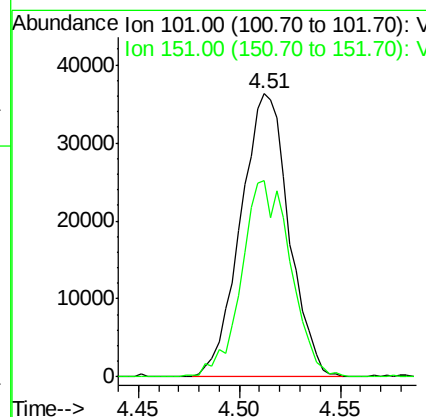
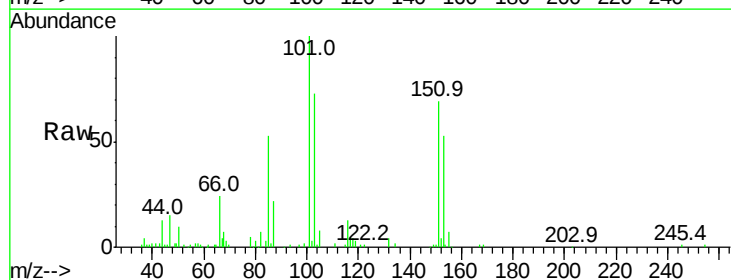
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

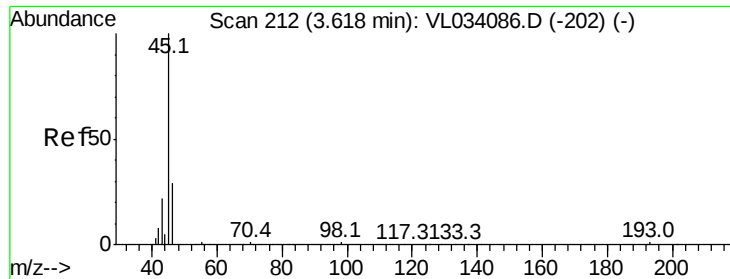
Tgt Ion:101 Resp: 42522
 Ion Ratio Lower Upper
 101 100
 103 60.5 54.3 81.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.387 ppbv
 RT: 4.51 min Scan# 490
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion:101 Resp: 60925
 Ion Ratio Lower Upper
 101 100
 151 70.2 59.4 89.0





#13

Ethanol

Concen: 0.730 ppbv

RT: 3.62 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

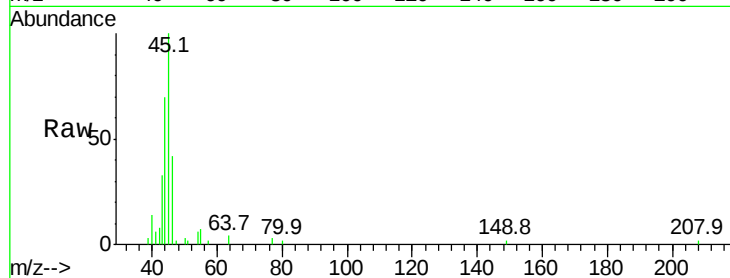
VSTDIC0.5

Tgt Ion: 45 Resp: 14564

Ion Ratio Lower Upper

45 100

46 39.8 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

10000

8000

6000

4000

2000

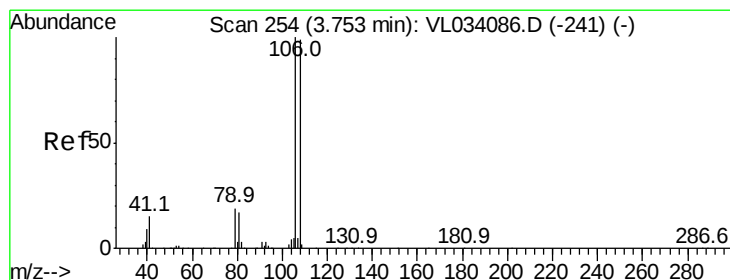
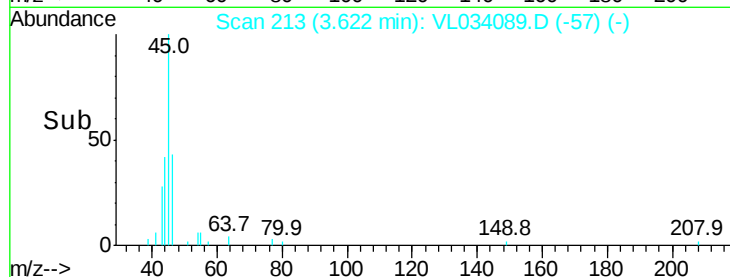
0

3.60

3.62

3.65

Time-->



#14

Bromoethene

Concen: 0.293 ppbv

RT: 3.75 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

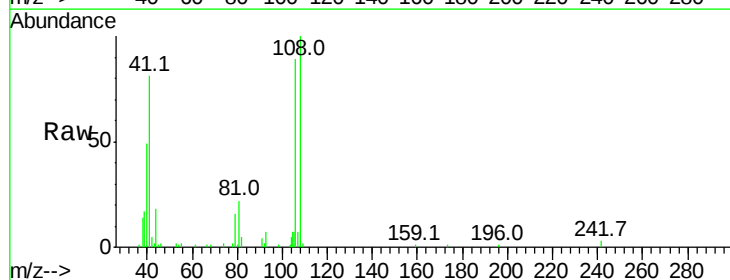
Tgt Ion: 108 Resp: 25793

Ion Ratio Lower Upper

108 100

106 108.9 85.0 127.6

79 22.4 15.8 23.8



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

30000

25000

20000

15000

10000

5000

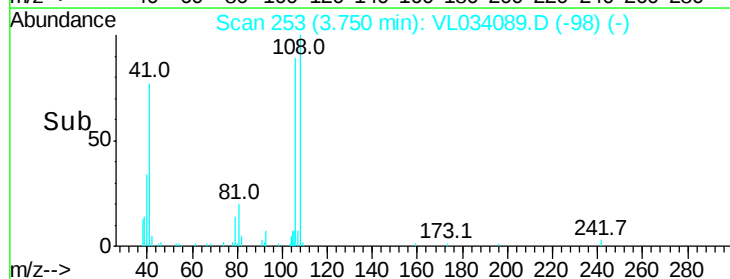
0

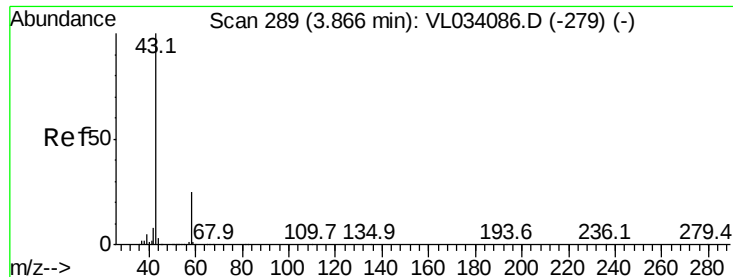
3.70

3.75

3.80

Time-->





#15

Acetone

Concen: 0.512 ppbv

RT: 3.87 min Scan# 291

Delta R.T. 0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

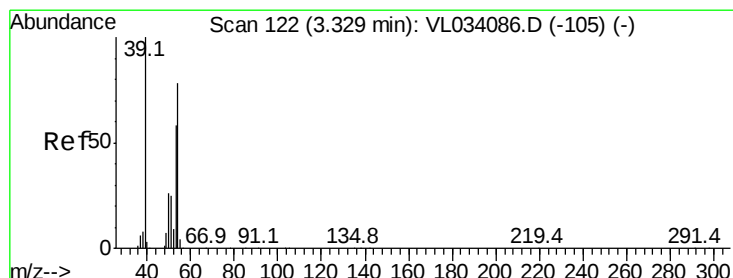
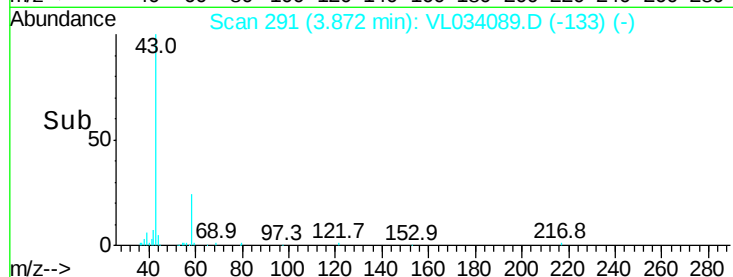
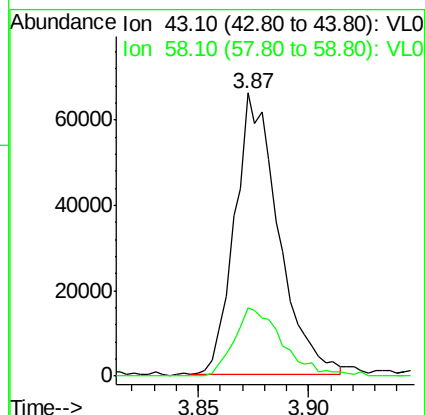
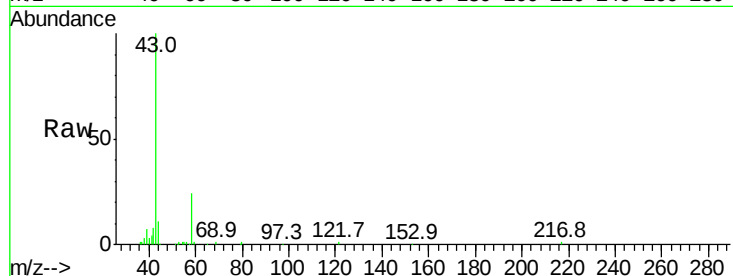
VSTDIC0.5

Tgt Ion: 43 Resp: 91046

Ion Ratio Lower Upper

43 100

58 27.0 20.6 30.8



#16

1,3-Butadiene

Concen: 0.621 ppbv

RT: 3.34 min Scan# 124

Delta R.T. 0.01 min

Lab File: VL034089.D

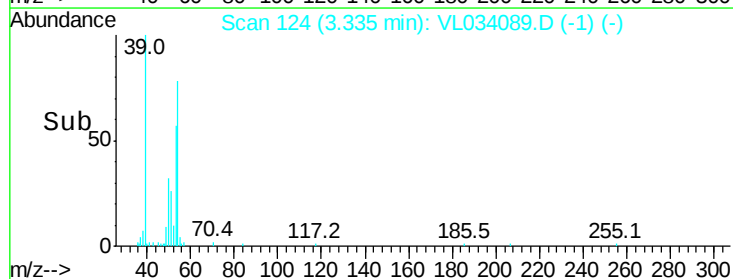
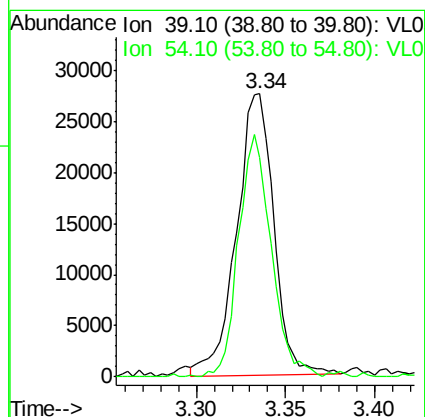
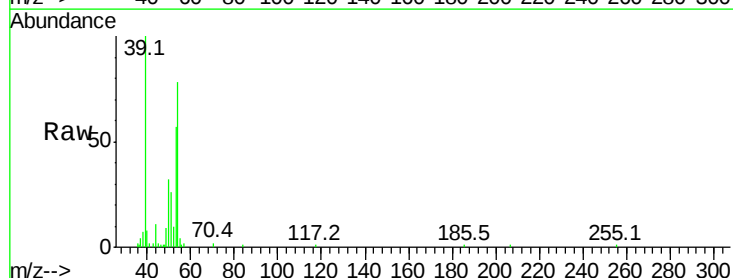
Acq: 5 Aug 2019 14:39

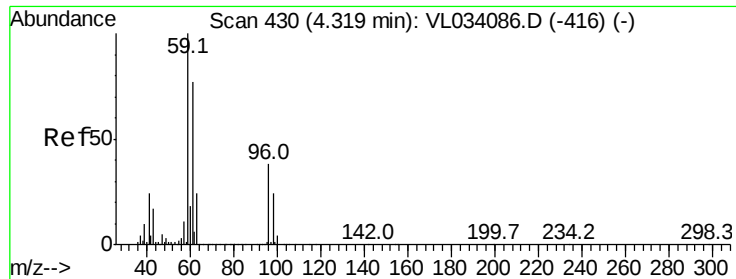
Tgt Ion: 39 Resp: 40397

Ion Ratio Lower Upper

39 100

54 76.5 62.7 94.1





#17

tert-Butyl alcohol

Concen: 0.629 ppbv

RT: 4.34 min Scan# 435

Delta R.T. 0.02 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

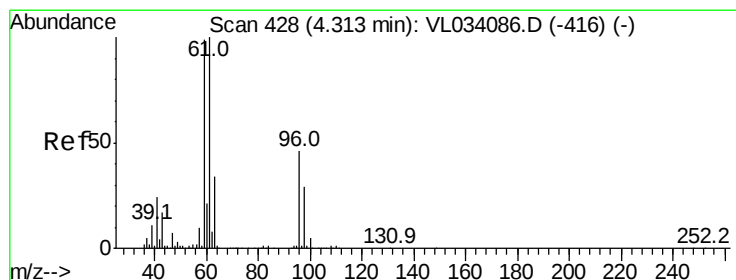
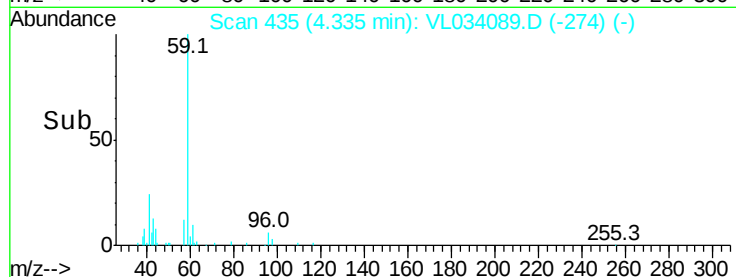
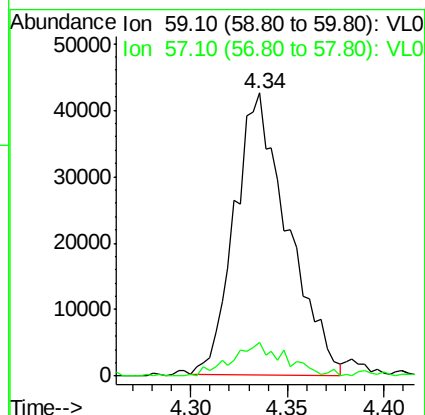
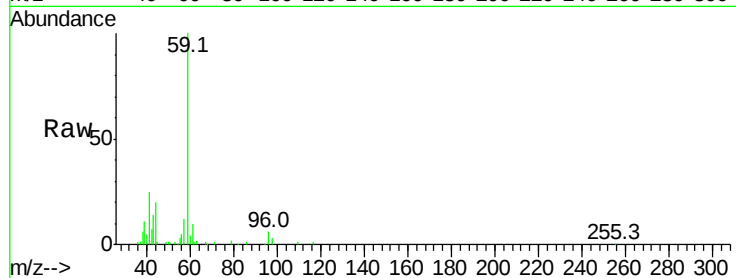
VSTDIC0.5

Tgt Ion: 59 Resp: 81188

Ion Ratio Lower Upper

59 100

57 13.0 8.4 12.6#



#18

1,1-Dichloroethene

Concen: 0.226 ppbv

RT: 4.31 min Scan# 427

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

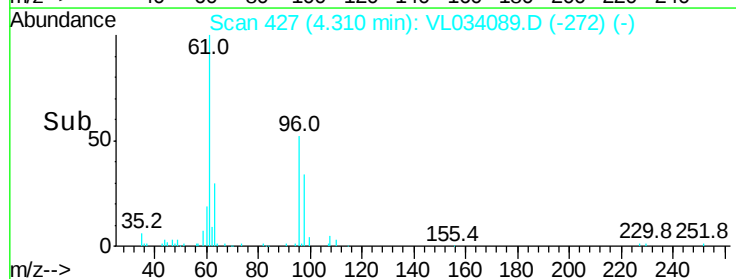
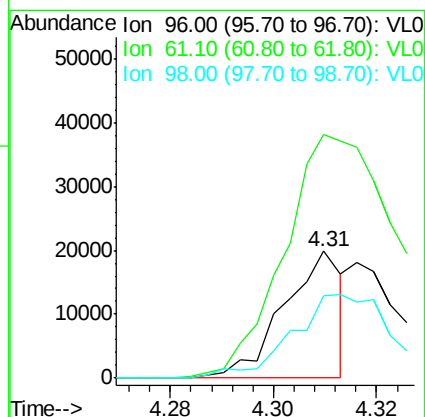
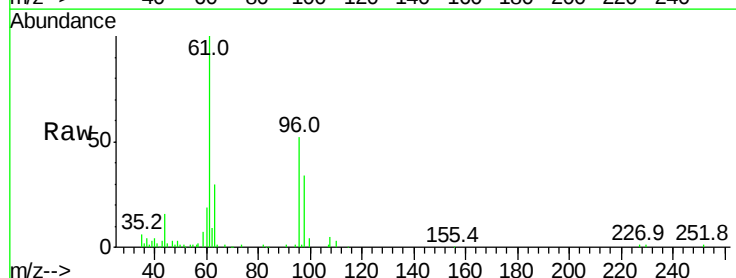
Tgt Ion: 96 Resp: 15540

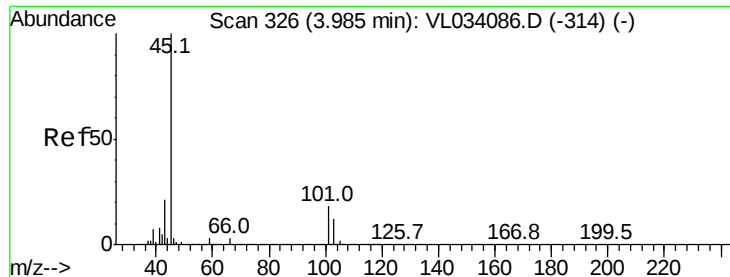
Ion Ratio Lower Upper

96 100

61 190.6 173.1 259.7

98 64.0 50.3 75.5





#19

Isopropyl Alcohol

Concen: 0.349 ppbv

RT: 4.00 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

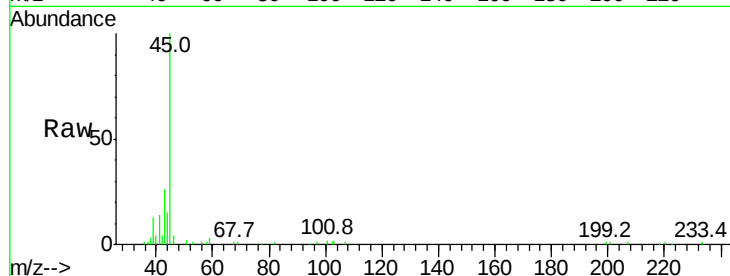
VSTDIC0.5

Tgt Ion: 45 Resp: 38368

Ion Ratio Lower Upper

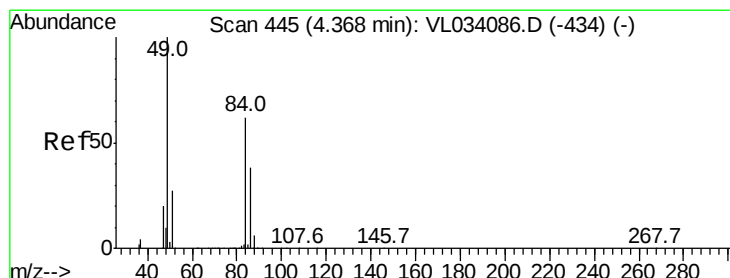
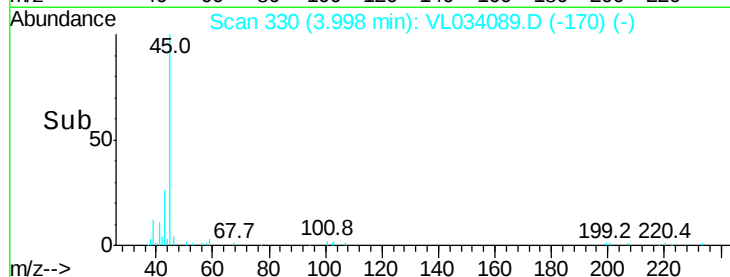
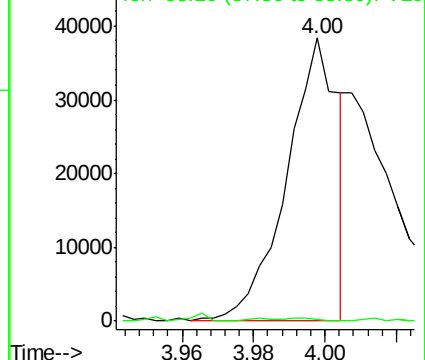
45 100

58 0.0 24.6 37.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.408 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion: 84 Resp: 26114

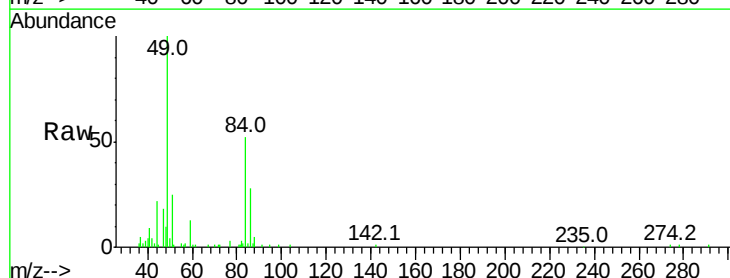
Ion Ratio Lower Upper

84 100

49 185.8 129.7 194.5

51 48.9 35.8 53.8

86 52.3 49.8 74.8

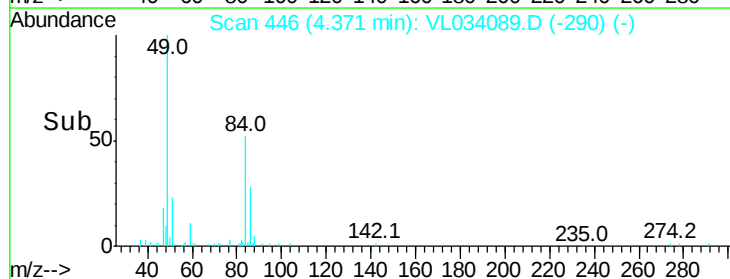
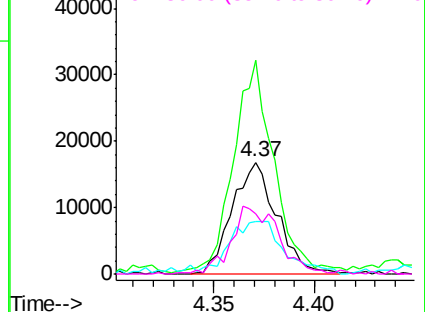


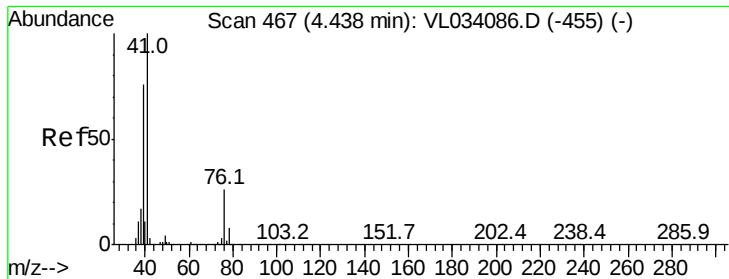
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

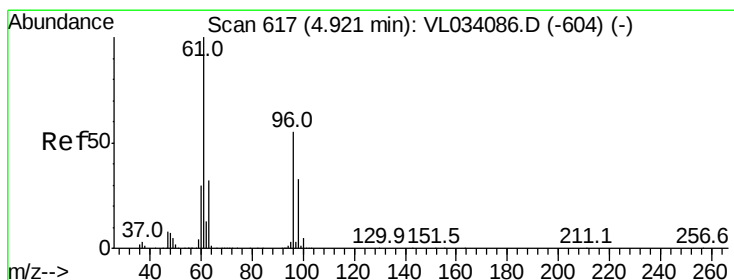
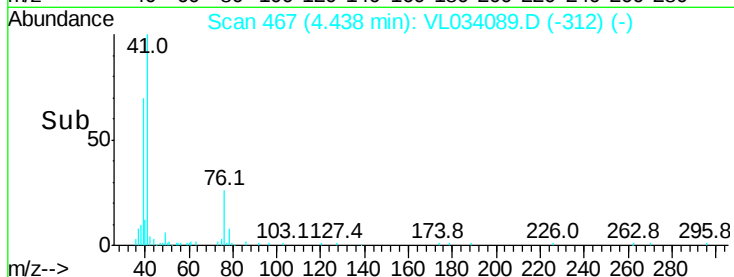
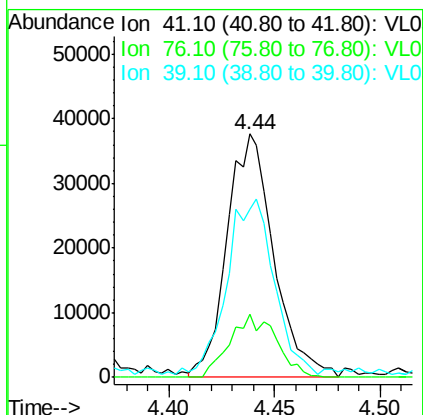
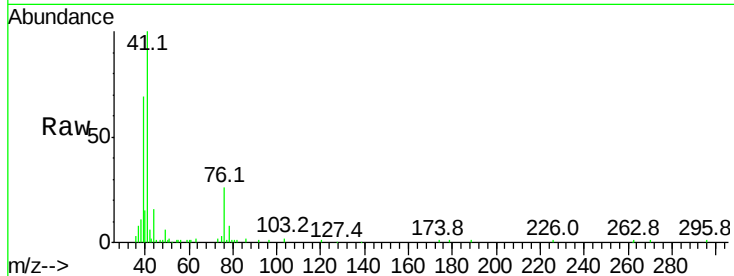




#21
 Allyl Chloride
 Concen: 0.536 ppbv
 RT: 4.44 min Scan# 467
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

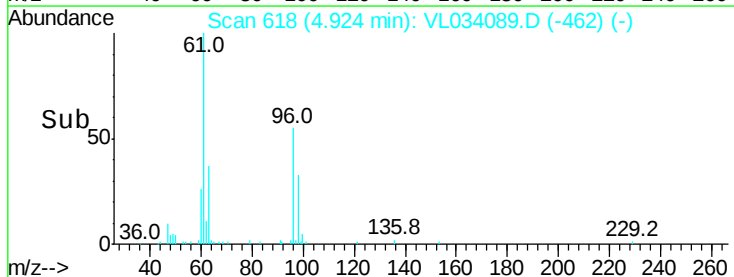
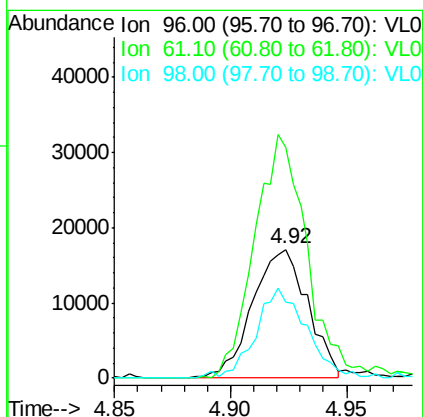
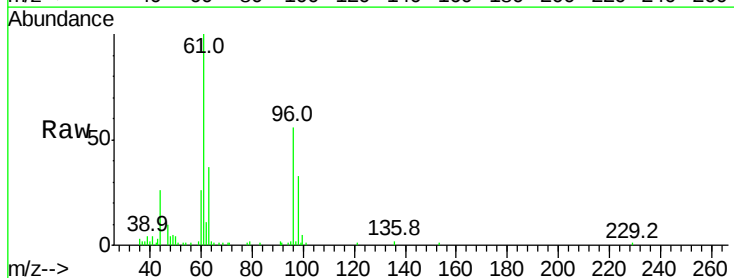
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

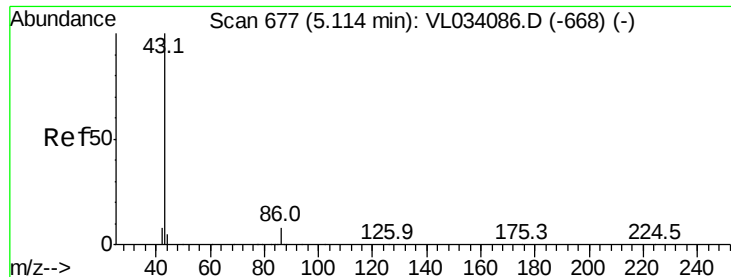
Tgt Ion: 41 Resp: 57796
 Ion Ratio Lower Upper
 41 100
 76 25.5 20.8 31.2
 39 76.2 61.3 91.9



#22
 trans-1,2-Dichloroethene
 Concen: 0.404 ppbv
 RT: 4.92 min Scan# 618
 Delta R.T. 0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion: 96 Resp: 28352
 Ion Ratio Lower Upper
 96 100
 61 179.2 144.2 216.2
 98 59.4 48.0 72.0





#23

Vinyl Acetate

Concen: 0.759 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 139065

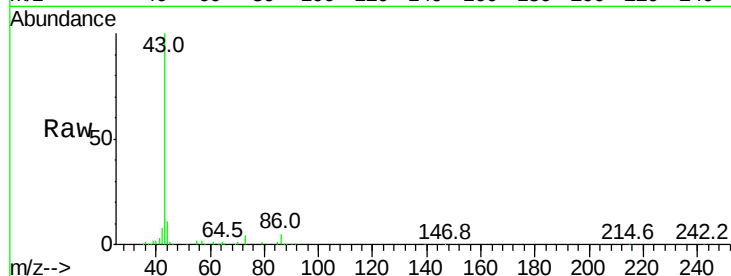
Ion Ratio Lower Upper

43 100

86 5.0 5.4 8.0#

42 7.3 7.9 11.9#

44 6.6 4.0 6.0#

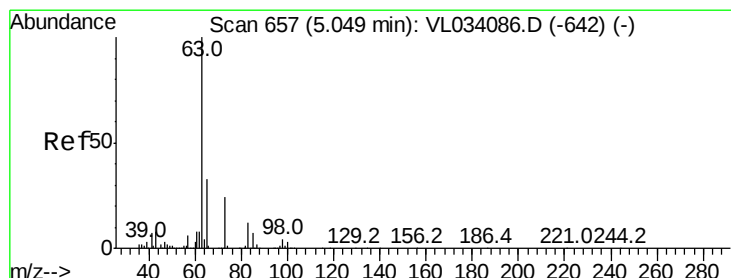
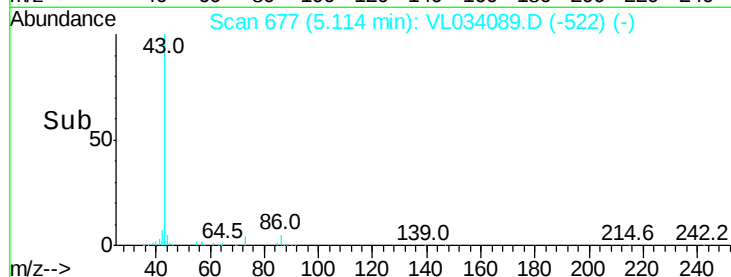
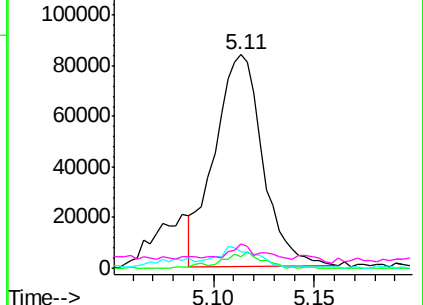


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.547 ppbv

RT: 5.05 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

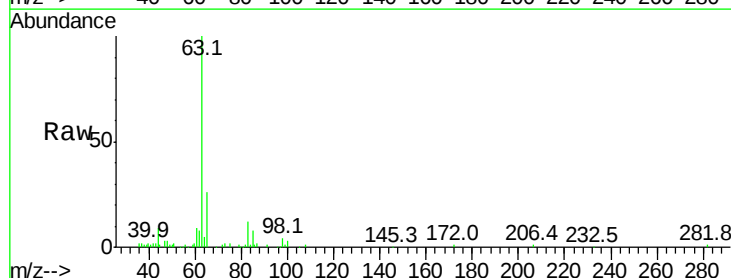
Tgt Ion: 63 Resp: 84165

Ion Ratio Lower Upper

63 100

98 4.1 2.0 6.0

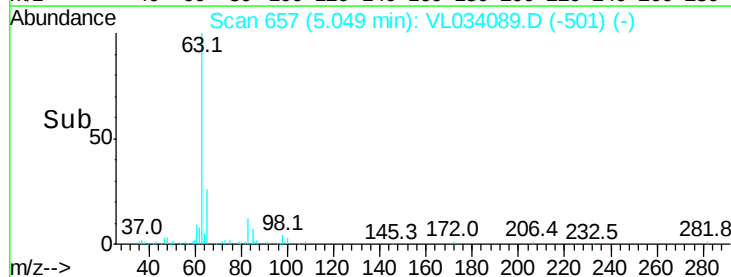
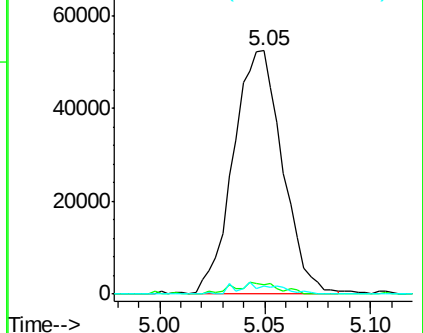
100 3.4 1.3 3.8

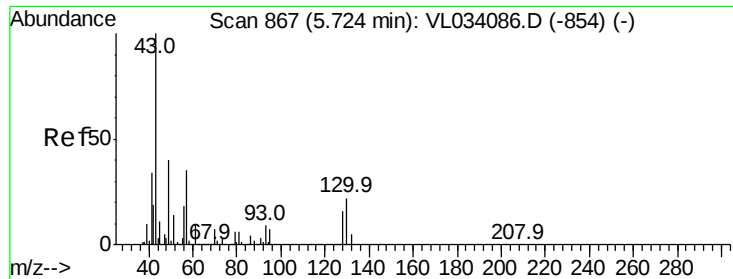


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.644 ppbv

RT: 5.73 min Scan# 869

Delta R.T. 0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 169394

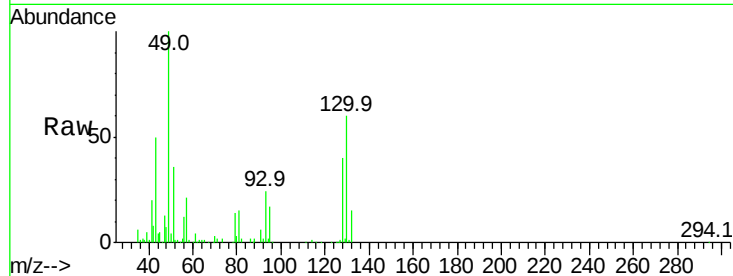
Ion Ratio Lower Upper

43 100

45 11.2 8.4 12.6

61 8.7 7.3 10.9

70 7.4 5.8 8.6

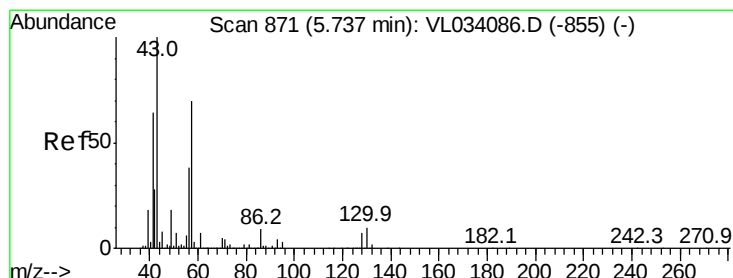
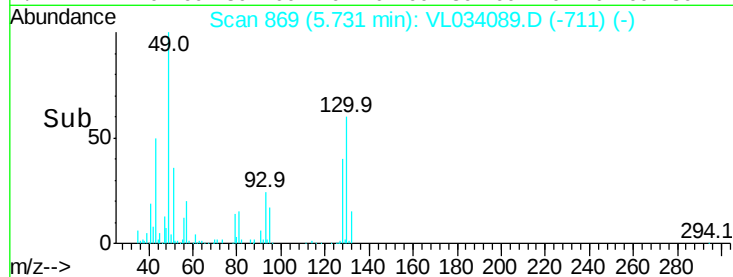
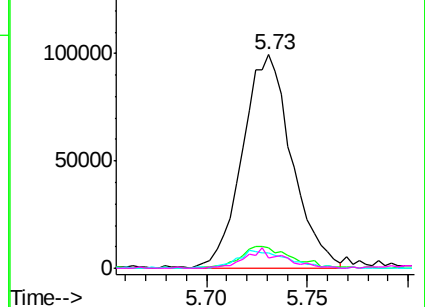


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.606 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion: 57 Resp: 72162

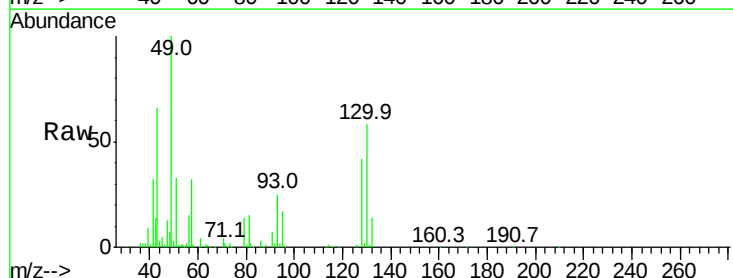
Ion Ratio Lower Upper

57 100

41 100.8 75.7 113.5

43 245.8 189.8 284.8

56 54.3 42.7 64.1

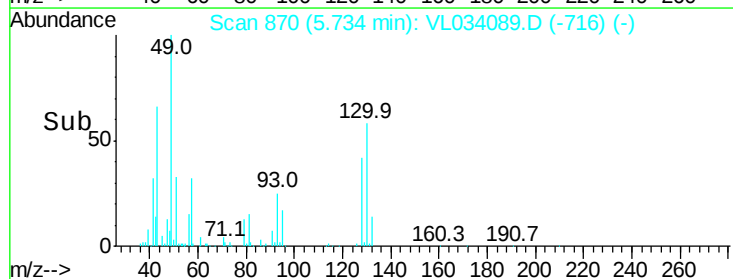
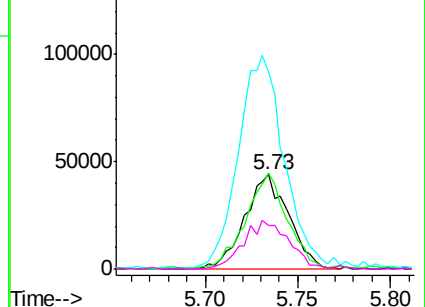


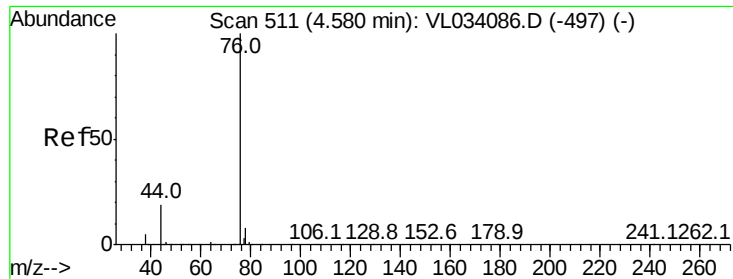
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.390 ppbv

RT: 4.58 min Scan# 512

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

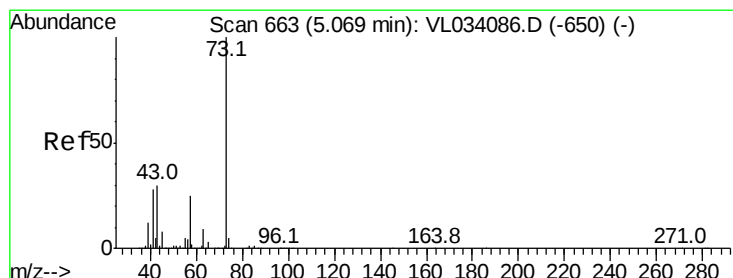
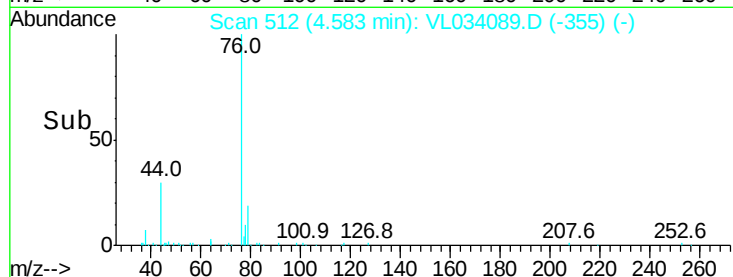
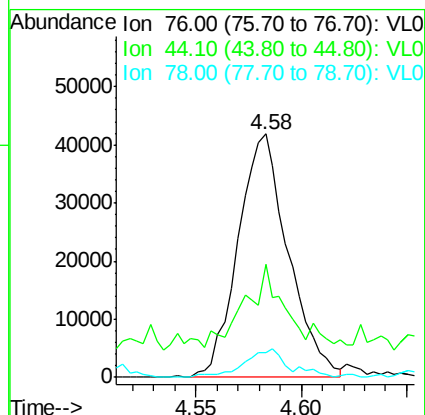
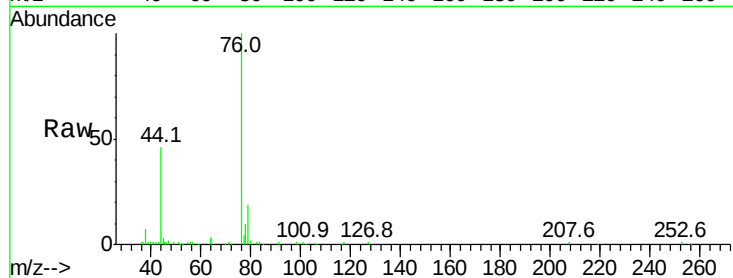
Tgt Ion: 76 Resp: 69109

Ion Ratio Lower Upper

76 100

44 26.8 17.8 26.6#

78 10.8 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 0.666 ppbv

RT: 5.08 min Scan# 668

Delta R.T. 0.02 min

Lab File: VL034089.D

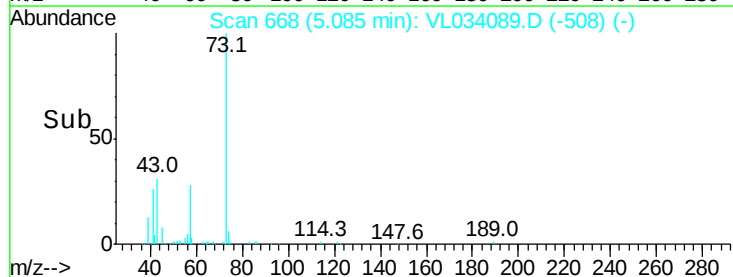
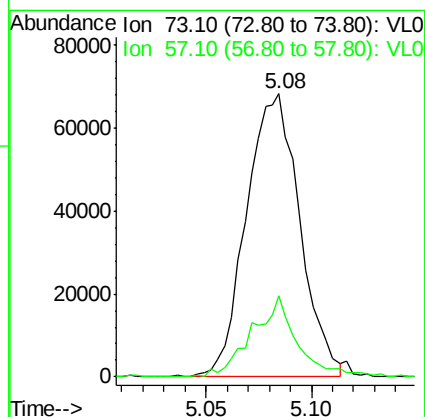
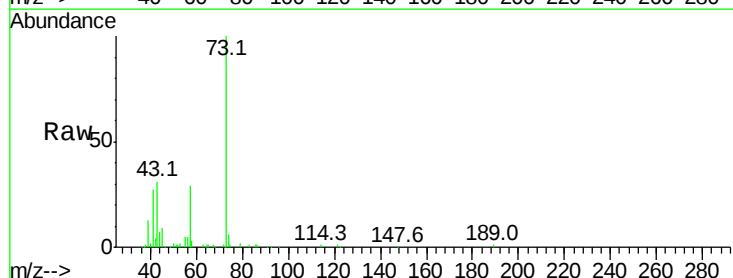
Acq: 5 Aug 2019 14:39

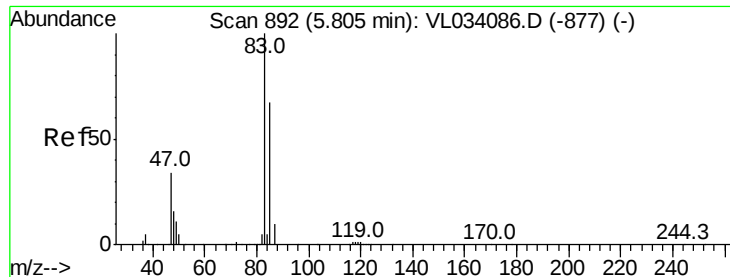
Tgt Ion: 73 Resp: 119180

Ion Ratio Lower Upper

73 100

57 24.8 19.5 29.3





#29

Chloroform

Concen: 0.449 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

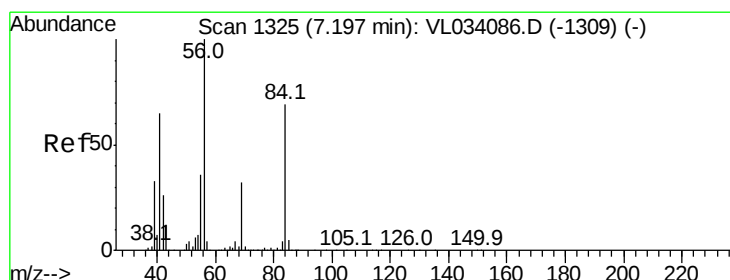
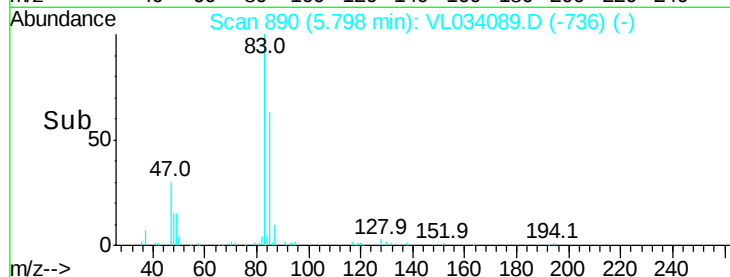
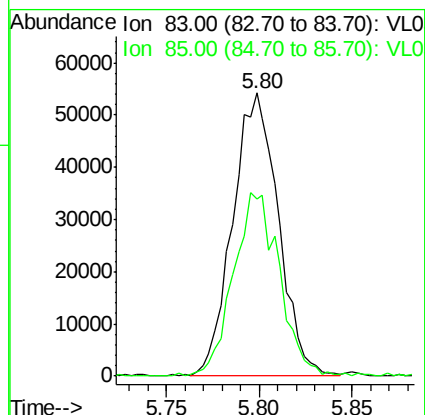
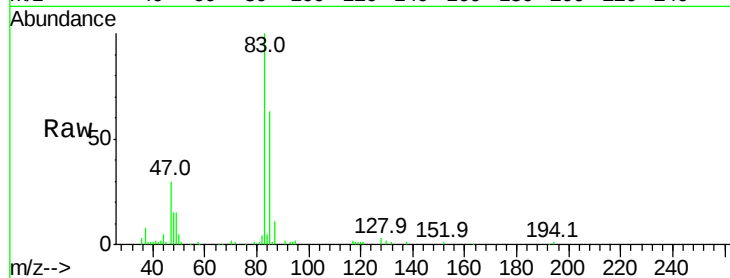
VSTDIC0.5

Tgt Ion: 83 Resp: 92980

Ion Ratio Lower Upper

83 100

85 62.3 53.2 79.8



#30

Cyclohexane

Concen: 0.320 ppbv

RT: 7.19 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

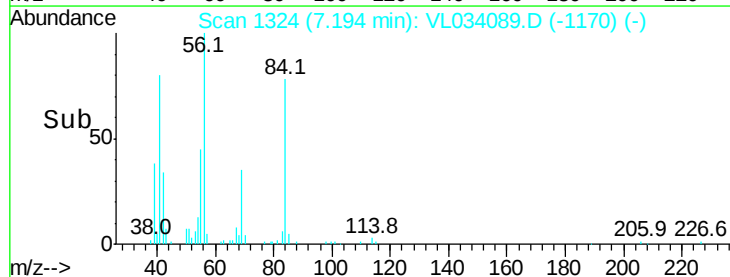
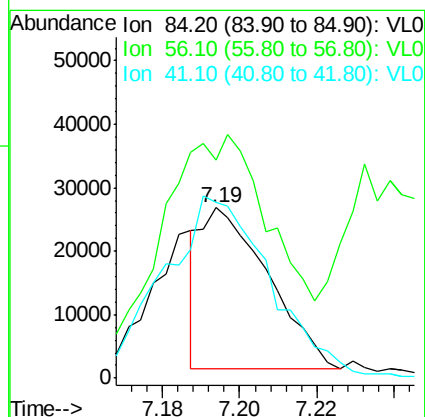
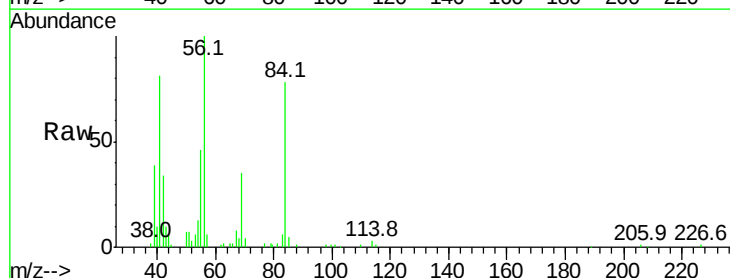
Tgt Ion: 84 Resp: 30386

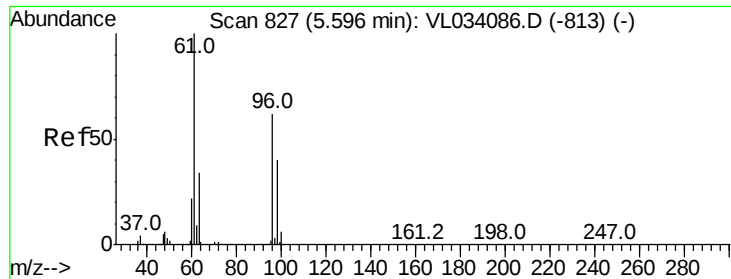
Ion Ratio Lower Upper

84 100

56 268.2 122.6 184.0#

41 188.0 80.1 120.1#



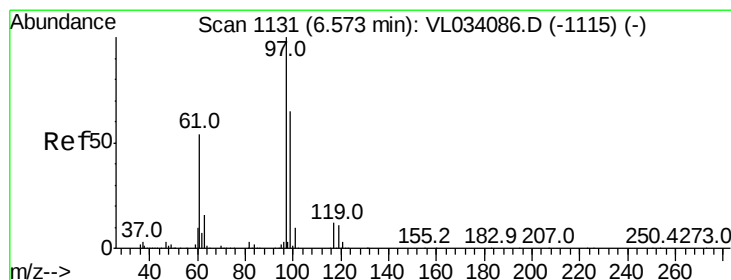
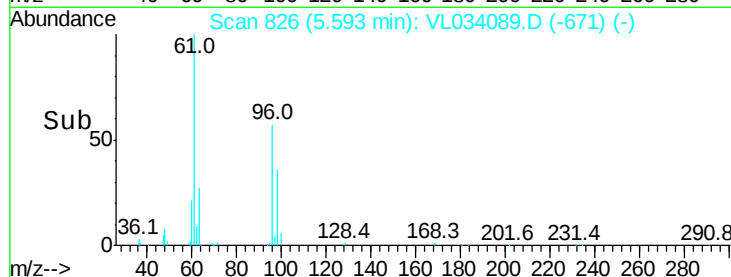
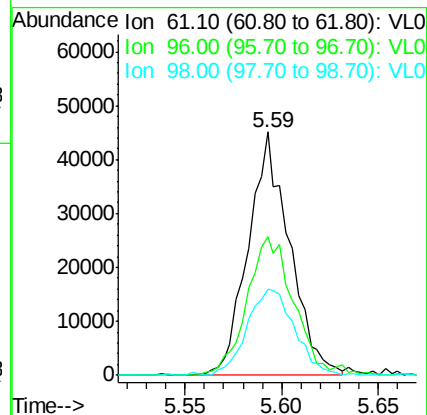
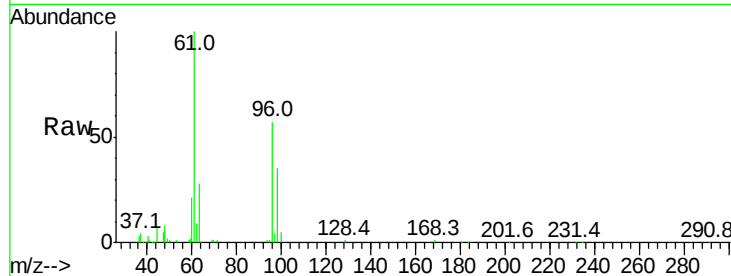


#31

cis-1,2-Dichloroethene
Concen: 0.574 ppbv
RT: 5.59 min Scan# 826
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

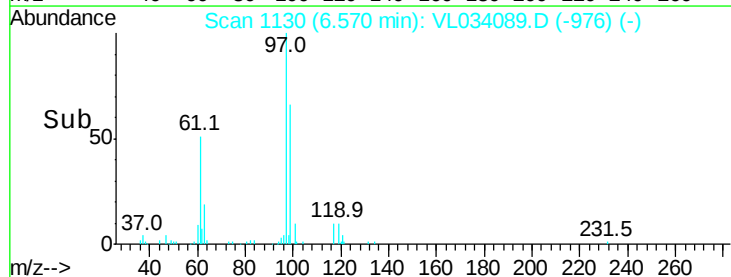
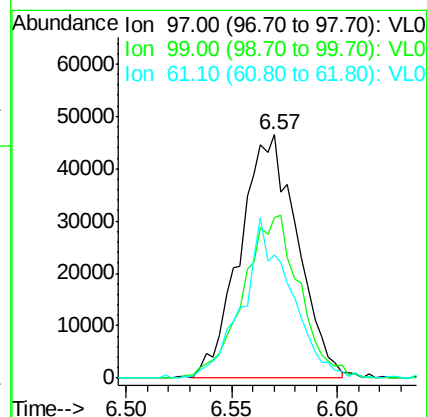
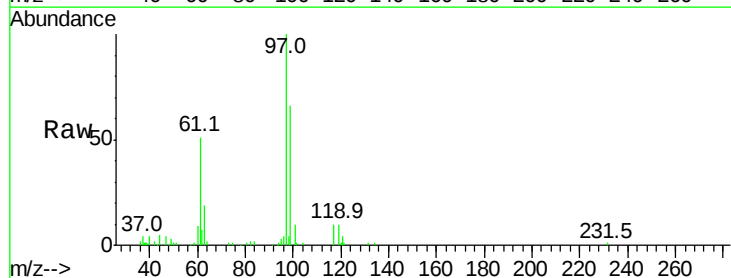
Tgt Ion: 61 Resp: 67118
Ion Ratio Lower Upper
61 100
96 56.9 49.3 73.9
98 34.8 32.4 48.6

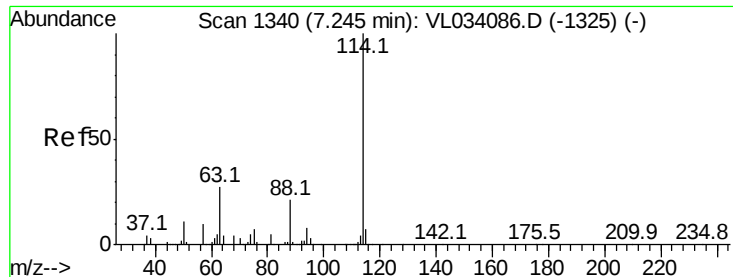


#32

1,1,1-Trichloroethane
Concen: 0.398 ppbv
RT: 6.57 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion: 97 Resp: 87093
Ion Ratio Lower Upper
97 100
99 66.5 52.2 78.4
61 55.7 42.0 63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.24 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

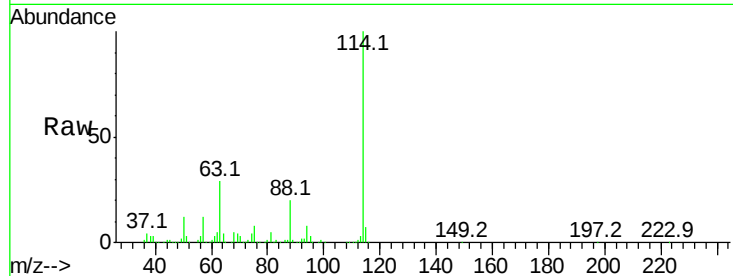
Tgt Ion:114 Resp: 2194260

Ion Ratio Lower Upper

114 100

63 28.4 22.5 33.7

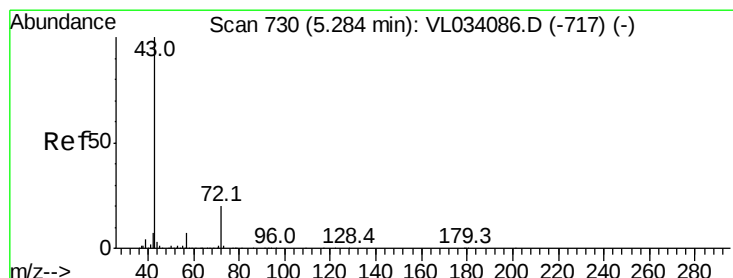
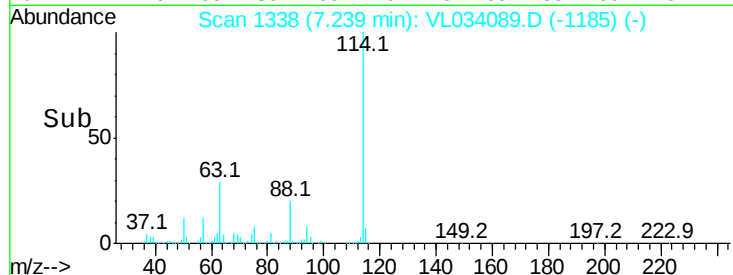
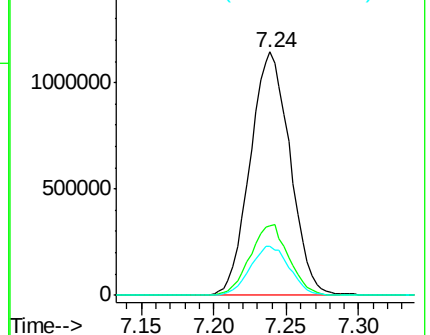
88 20.0 15.7 23.5



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.879 ppbv

RT: 5.29 min Scan# 733

Delta R.T. 0.01 min

Lab File: VL034089.D

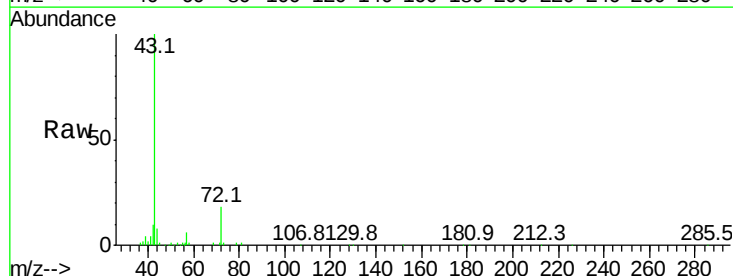
Acq: 5 Aug 2019 14:39

Tgt Ion: 43 Resp: 110474

Ion Ratio Lower Upper

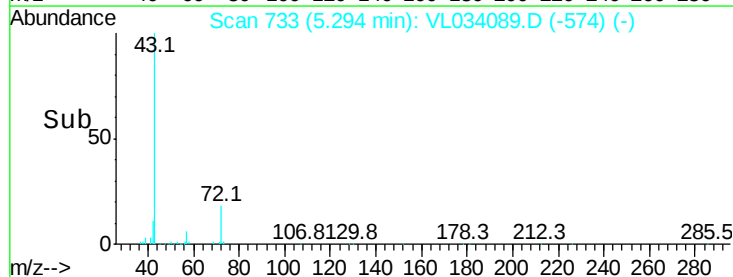
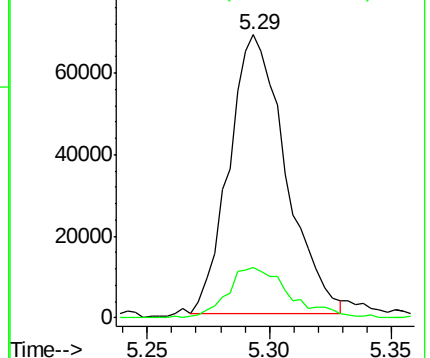
43 100

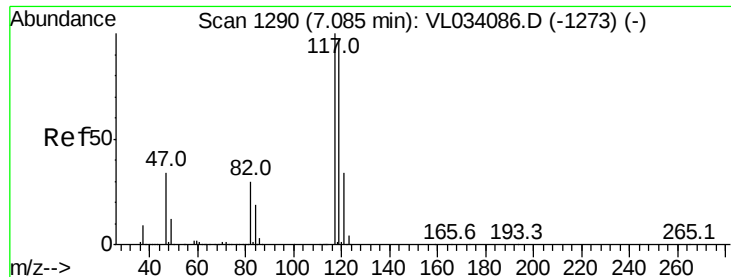
72 20.0 16.0 24.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.469 ppbv

RT: 7.08 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

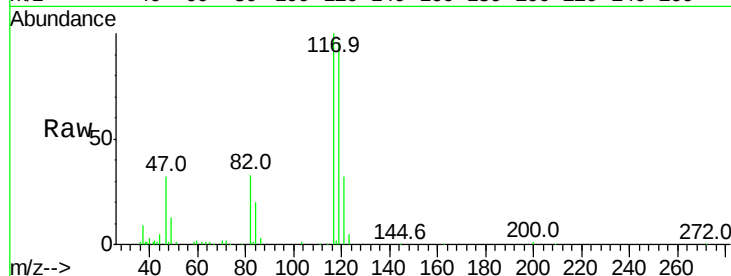
Tgt Ion:117 Resp: 83230

Ion Ratio Lower Upper

117 100

119 94.8 77.8 116.6

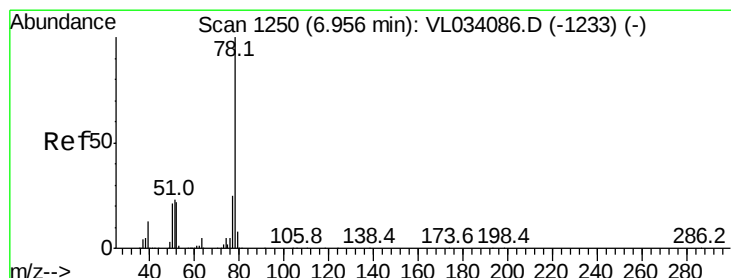
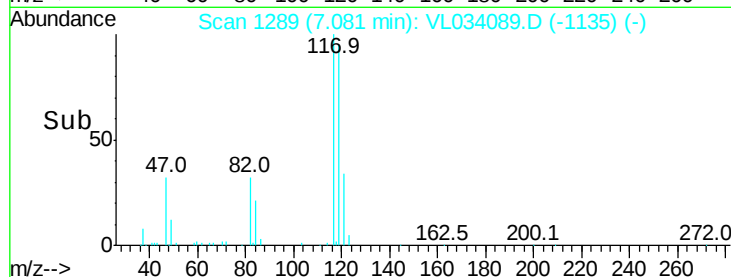
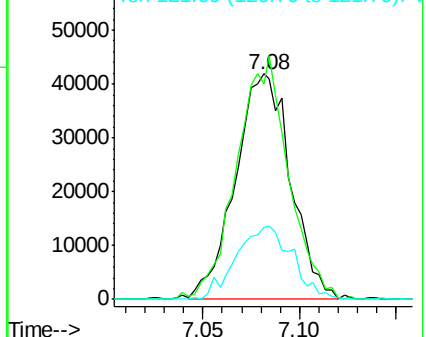
121 31.7 27.4 41.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.681 ppbv

RT: 6.95 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

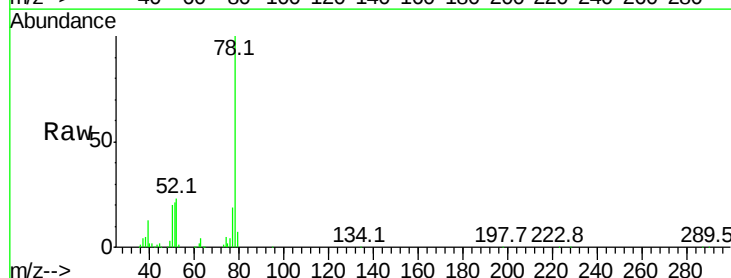
Tgt Ion: 78 Resp: 142359

Ion Ratio Lower Upper

78 100

77 18.9 19.9 29.9#

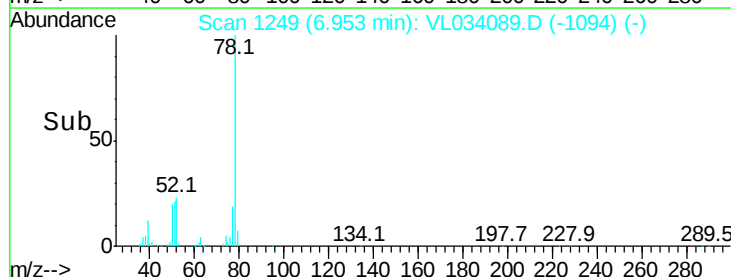
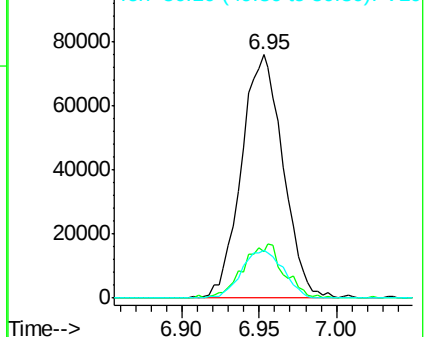
50 19.8 16.7 25.1

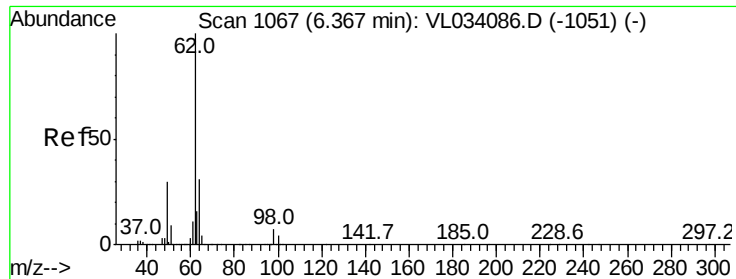


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.535 ppbv

RT: 6.36 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

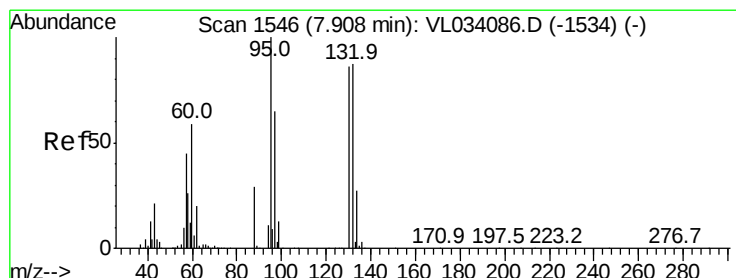
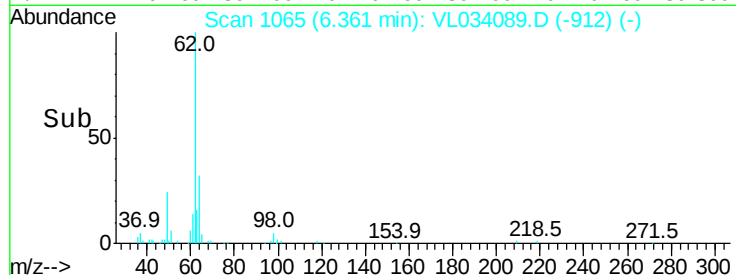
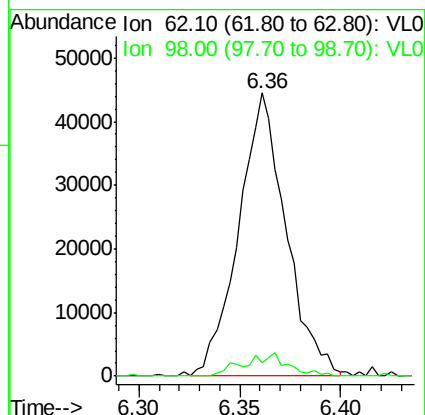
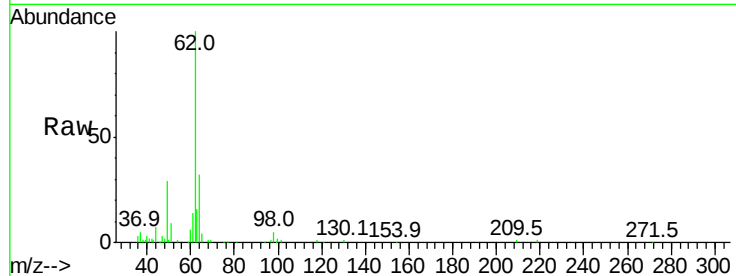
VSTDIC0.5

Tgt Ion: 62 Resp: 73030

Ion Ratio Lower Upper

62 100

98 7.6 4.9 7.3#



#38

Trichloroethene

Concen: 0.675 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion: 130 Resp: 47695

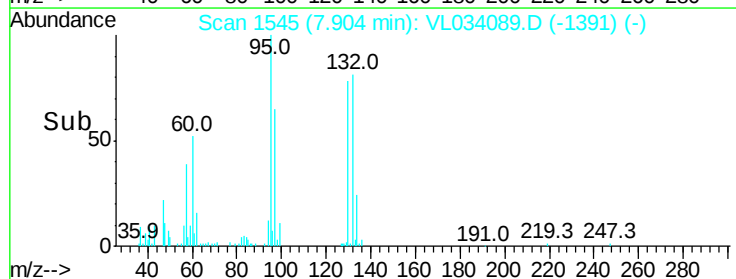
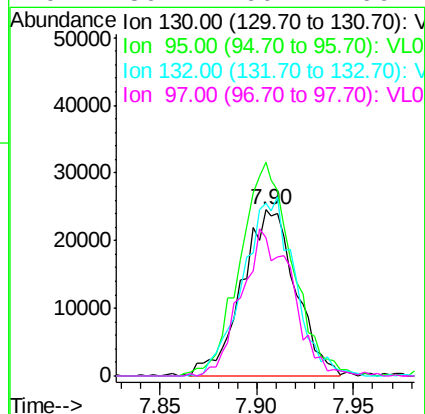
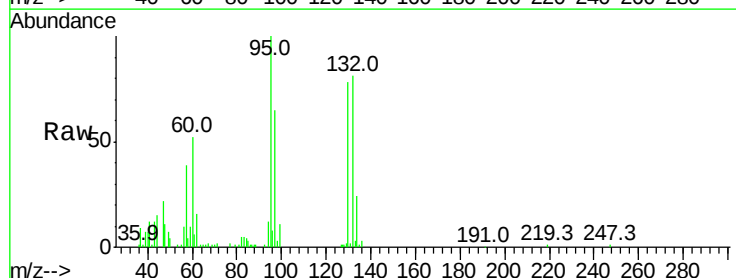
Ion Ratio Lower Upper

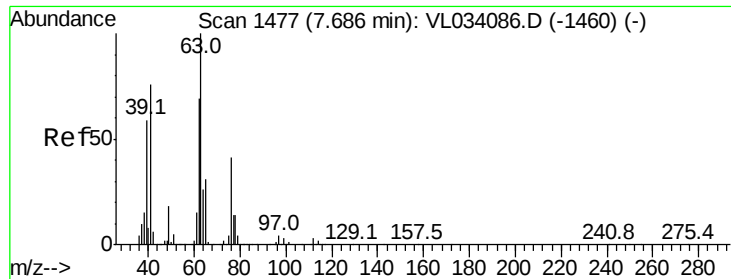
130 100

95 123.5 92.1 138.1

132 101.2 79.7 119.5

97 80.2 60.2 90.4





#39

1,2-Dichloropropane

Concen: 0.462 ppbv

RT: 7.68 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

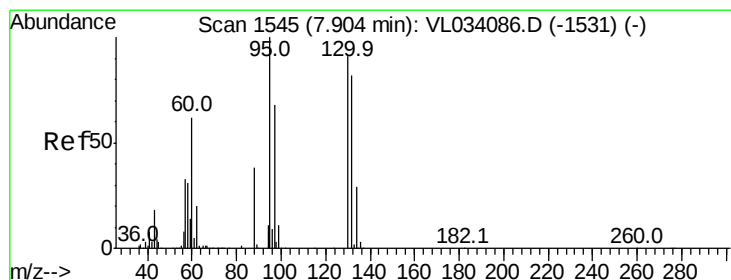
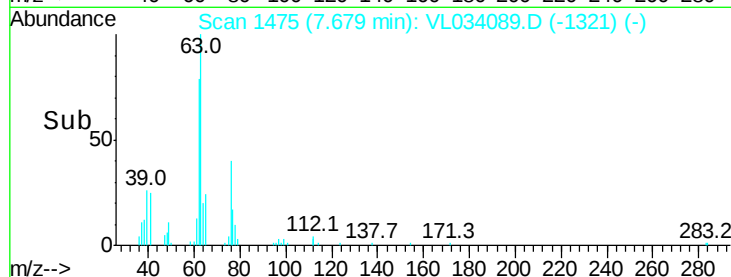
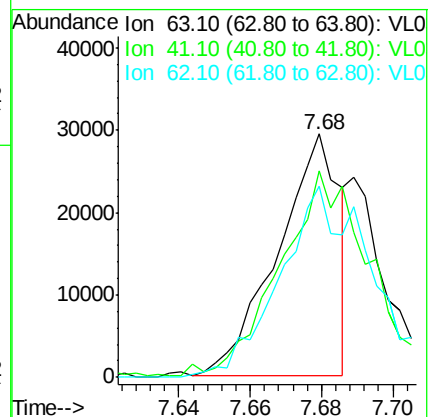
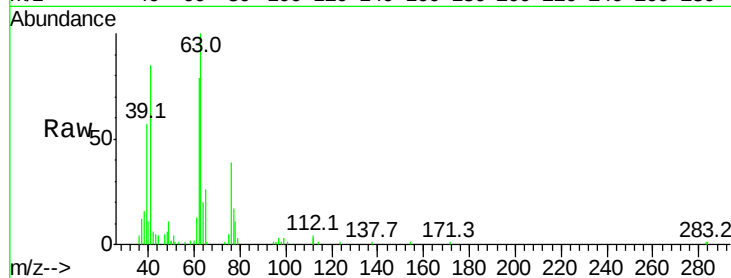
Tgt Ion: 63 Resp: 34930

Ion Ratio Lower Upper

63 100

41 80.5 60.6 91.0

62 78.0 55.0 82.6



#40

1,4-Dioxane

Concen: 0.249 ppbv

RT: 7.93 min Scan# 1552

Delta R.T. 0.02 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion: 88 Resp: 7207

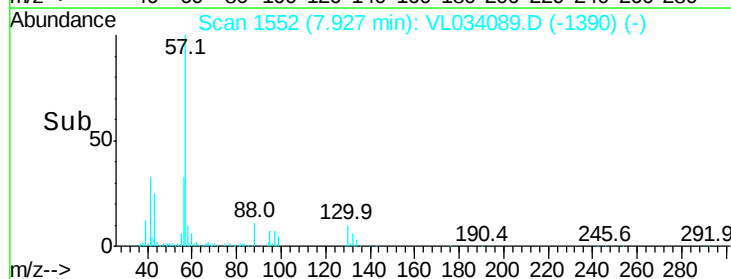
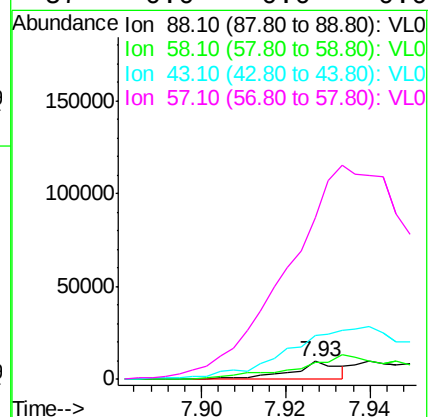
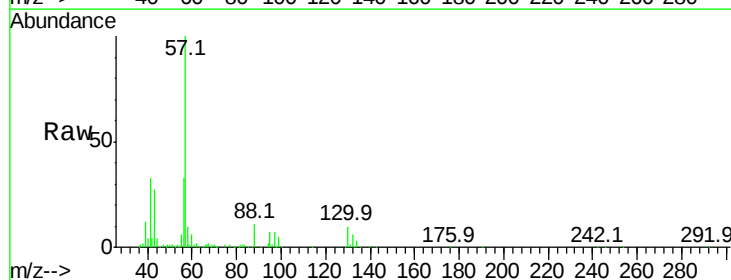
Ion Ratio Lower Upper

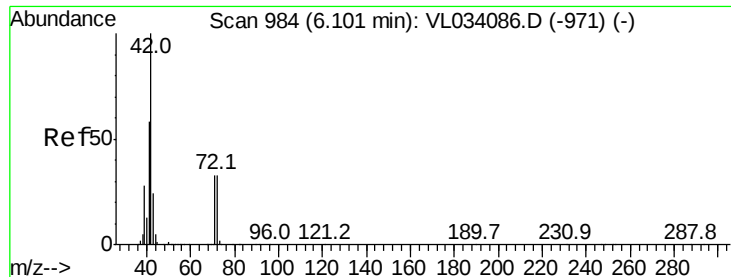
88 100

58 0.0 113.0 169.4#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

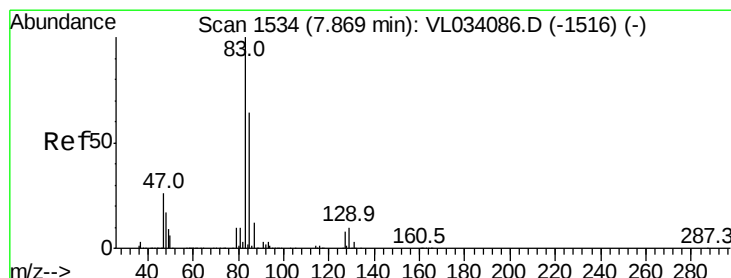
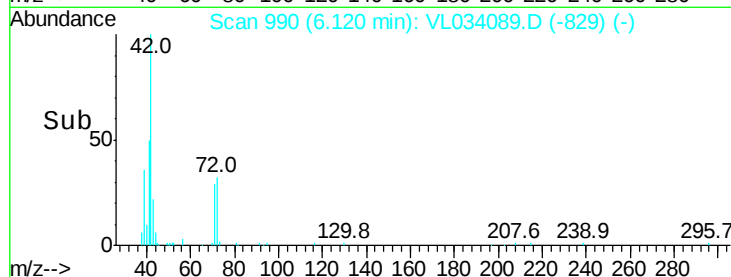
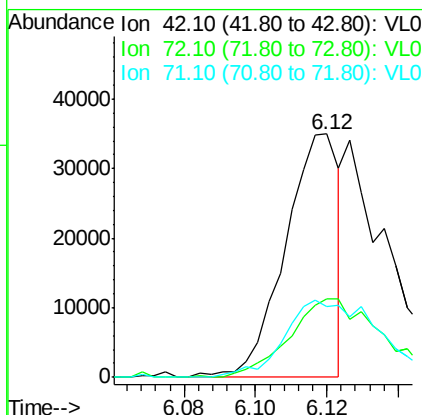
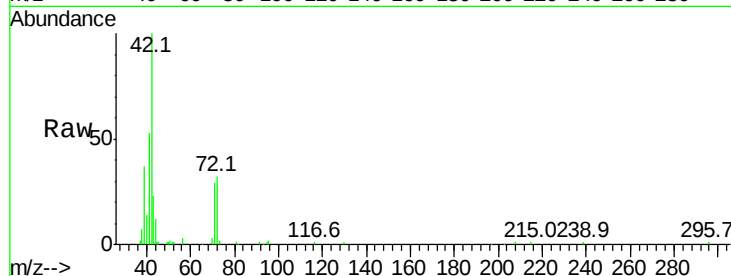




#41
Tetrahydrofuran
Concen: 0.543 ppbv
RT: 6.12 min Scan# 990
Delta R.T. 0.02 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

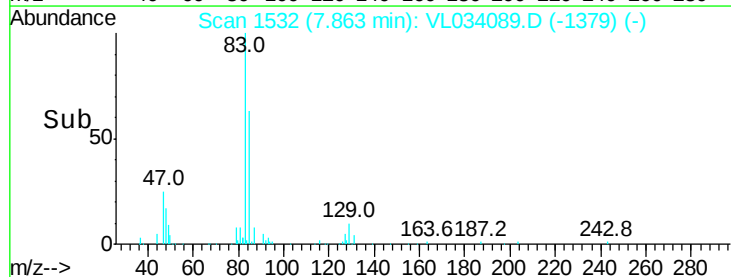
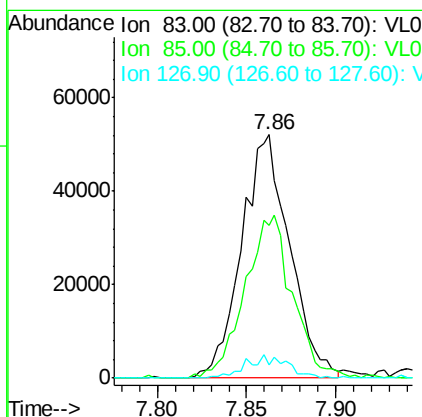
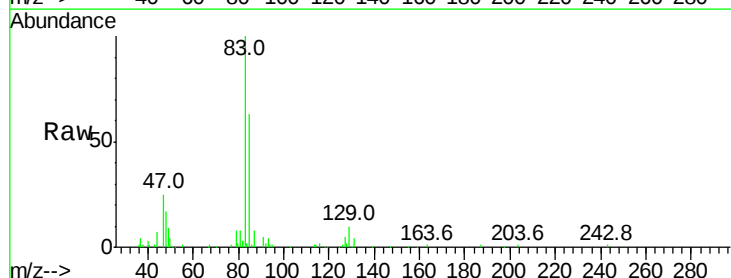
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

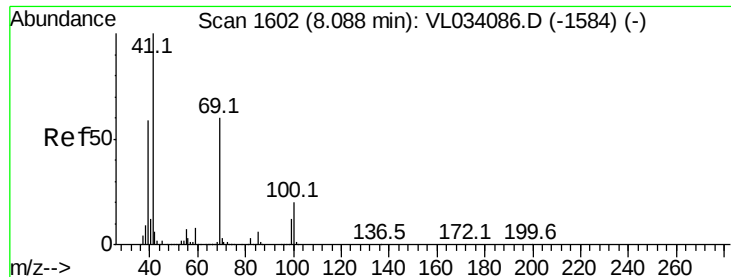
Tgt Ion: 42 Resp: 36607
Ion Ratio Lower Upper
42 100
72 0.0 26.9 40.3#
71 59.8 26.5 39.7#



#42
Bromodichloromethane
Concen: 0.570 ppbv
RT: 7.86 min Scan# 1532
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion: 83 Resp: 98122
Ion Ratio Lower Upper
83 100
85 62.8 50.9 76.3
127 5.2 6.1 9.1#

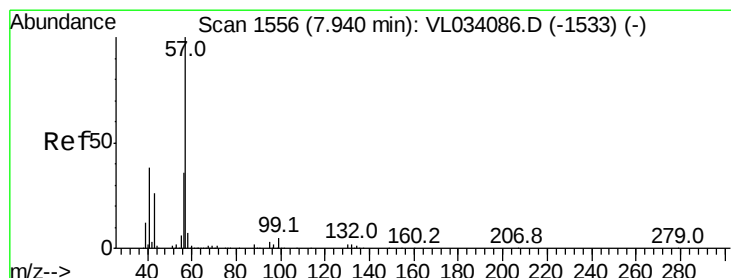
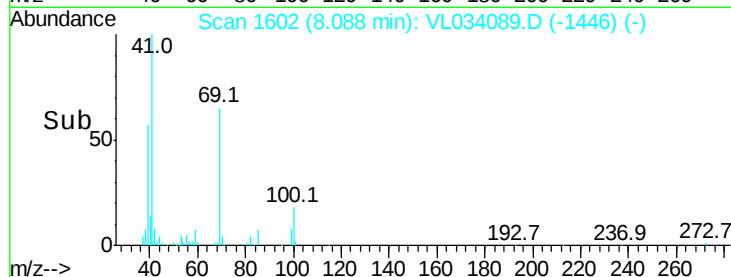
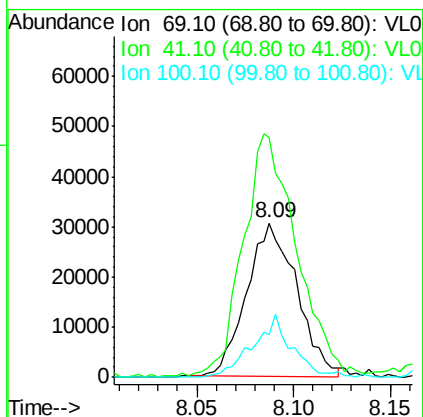
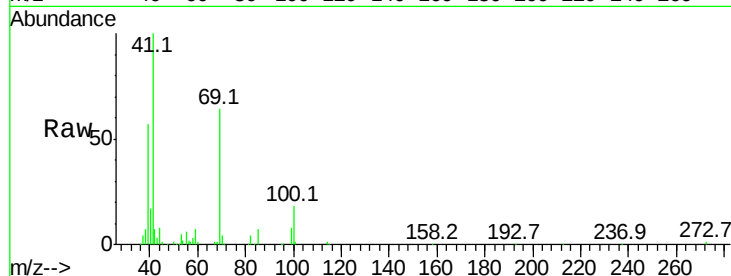




#43
Methyl Methacrylate
Concen: 0.764 ppbv
RT: 8.09 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

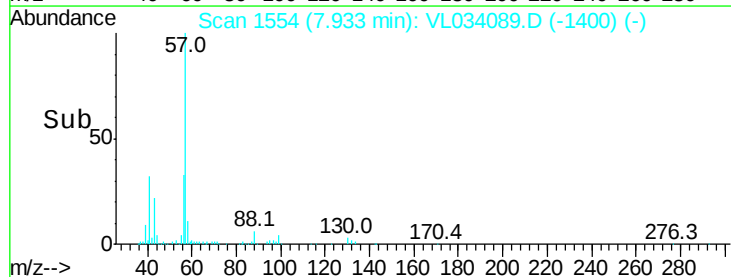
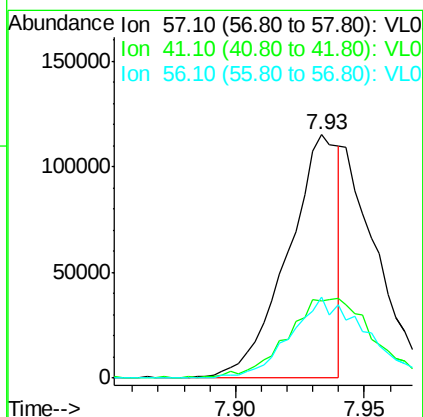
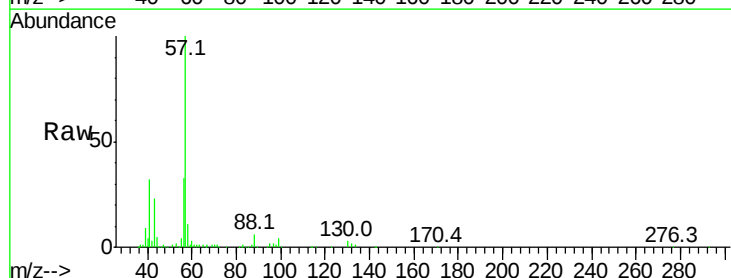
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

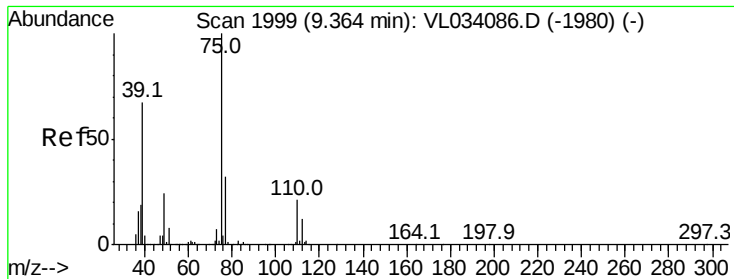
Tgt Ion: 69 Resp: 55134
Ion Ratio Lower Upper
69 100
41 171.1 132.9 199.3
100 32.7 25.8 38.8



#44
2,2,4-Trimethylpentane
Concen: 0.506 ppbv
RT: 7.93 min Scan# 1554
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion: 57 Resp: 158170
Ion Ratio Lower Upper
57 100
41 55.7 29.2 43.8#
56 49.8 26.7 40.1#





#45

t-1,3-Dichloropropene

Concen: 0.441 ppbv

RT: 9.35 min Scan# 1996

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

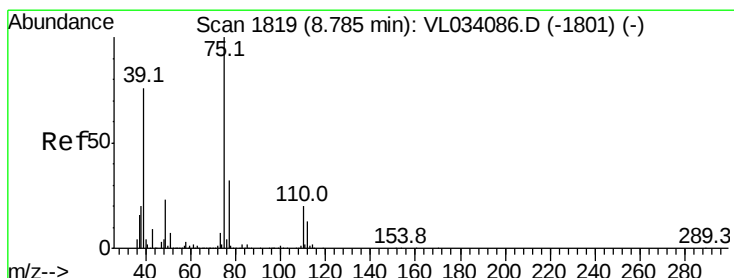
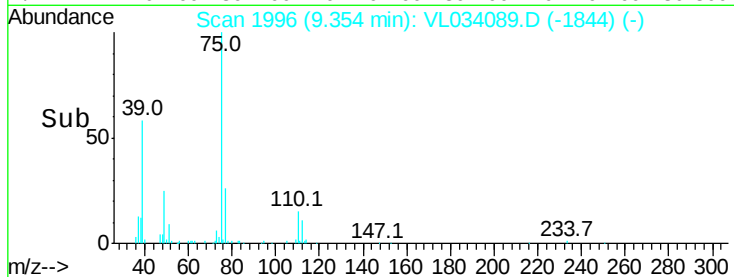
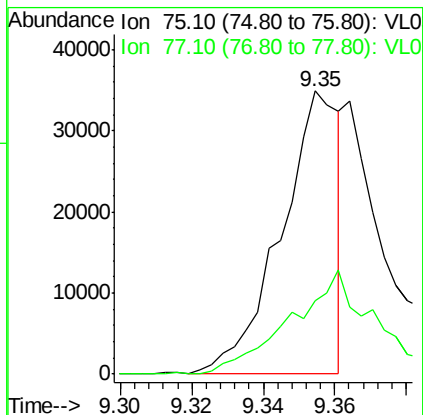
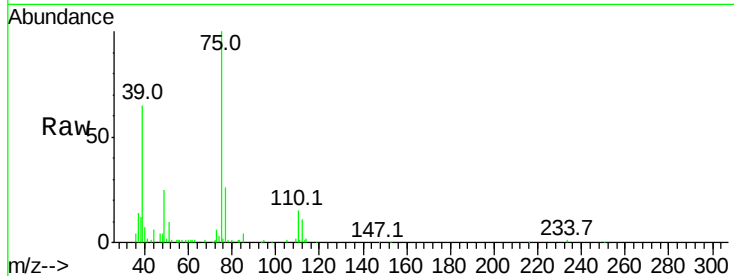
VSTDIC0.5

Tgt Ion: 75 Resp: 39317

Ion Ratio Lower Upper

75 100

77 25.7 25.7 38.5



#46

cis-1,3-Dichloropropene

Concen: 0.749 ppbv

RT: 8.78 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

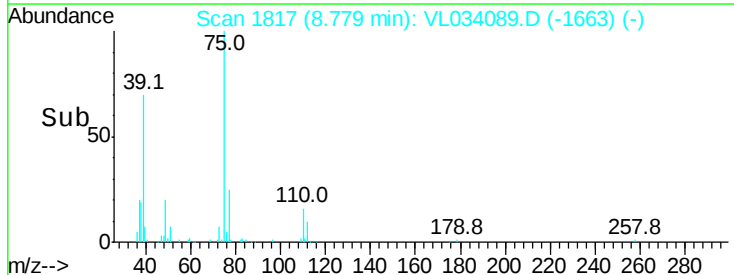
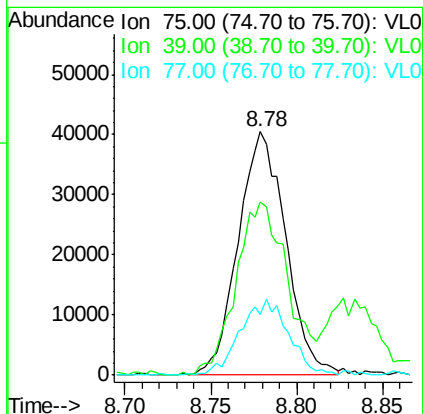
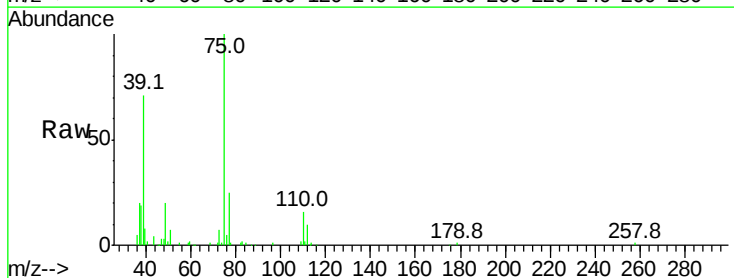
Tgt Ion: 75 Resp: 77495

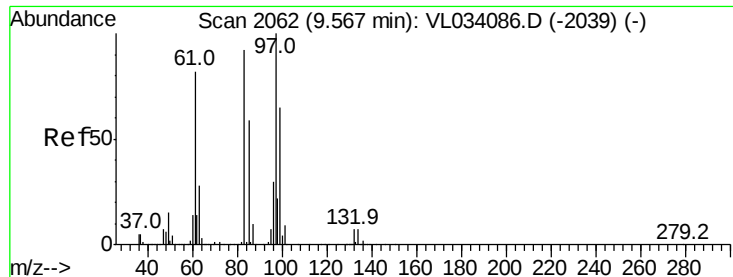
Ion Ratio Lower Upper

75 100

39 71.0 61.0 91.4

77 24.4 25.6 38.4#





#47

1,1,2-Trichloroethane

Concen: 0.616 ppbv

RT: 9.55 min Scan# 2058

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 50180

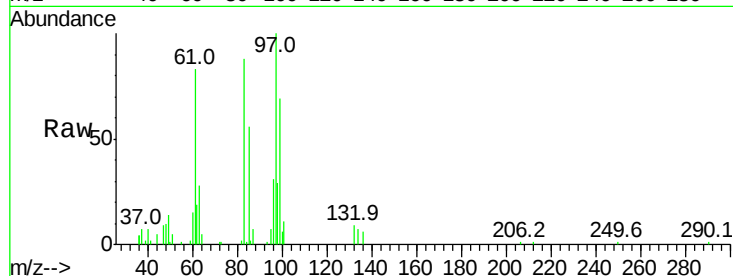
Ion Ratio Lower Upper

97 100

83 88.4 74.0 111.0

85 54.7 47.1 70.7

99 69.1 51.9 77.9

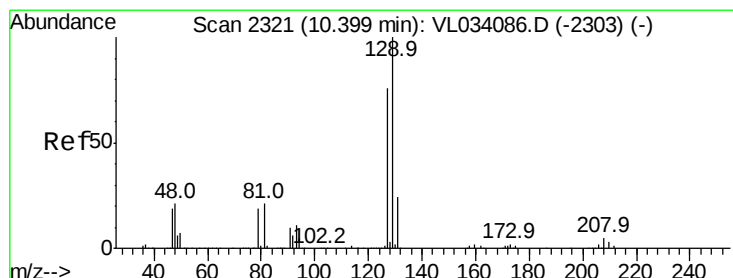
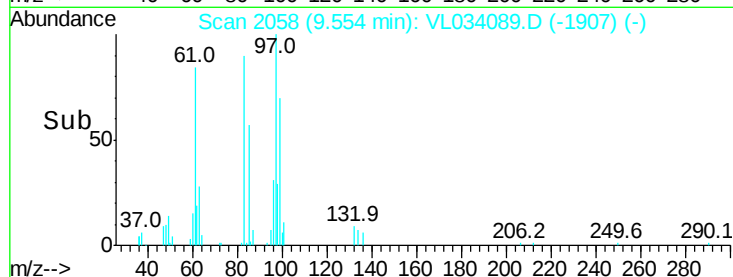
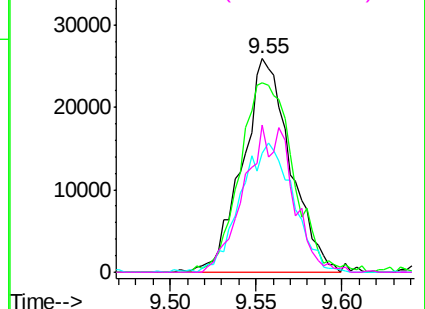


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.583 ppbv

RT: 10.39 min Scan# 2318

Delta R.T. -0.01 min

Lab File: VL034089.D

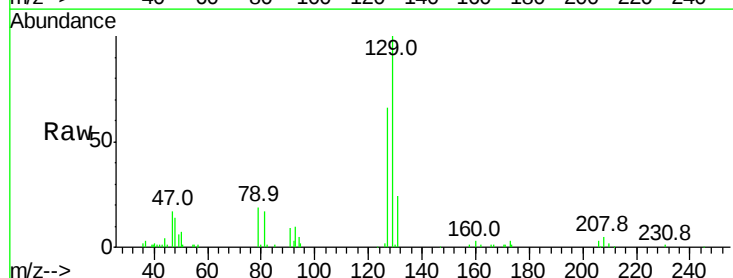
Acq: 5 Aug 2019 14:39

Tgt Ion: 129 Resp: 80413

Ion Ratio Lower Upper

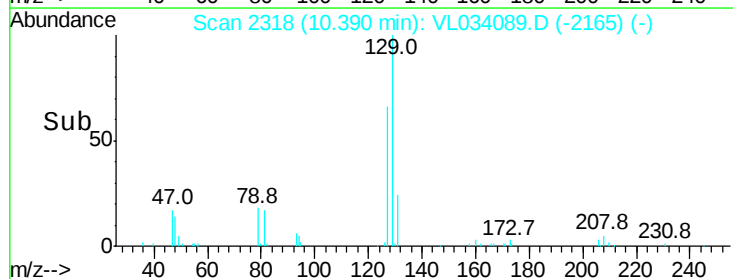
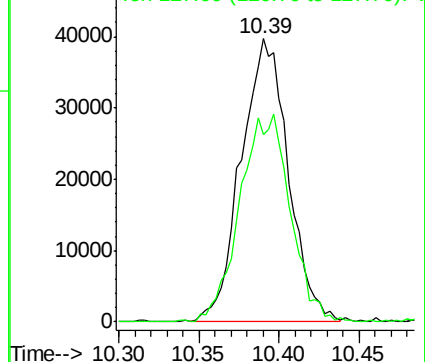
129 100

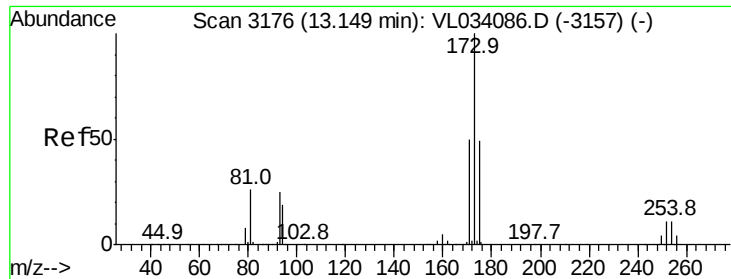
127 78.2 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.576 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

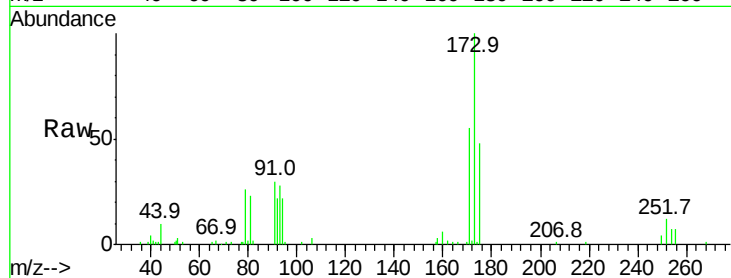
Tgt Ion:173 Resp: 68767

Ion Ratio Lower Upper

173 100

175 48.5 39.8 59.8

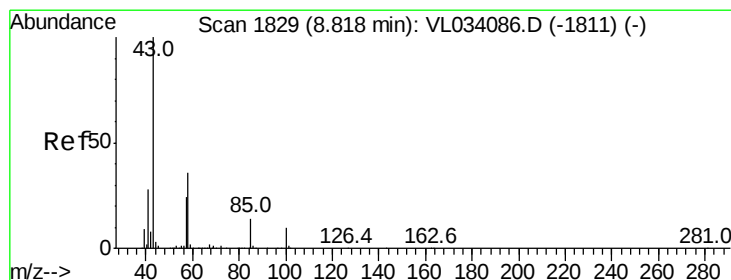
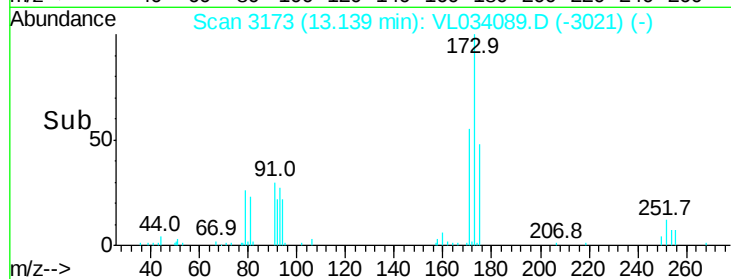
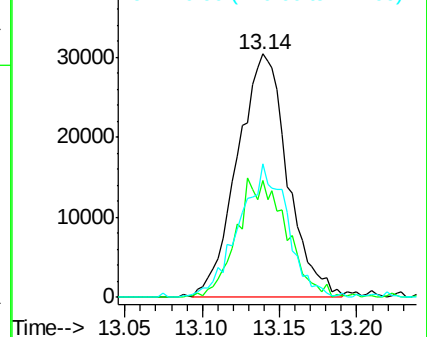
171 52.4 42.7 64.1



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.933 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VL034089.D

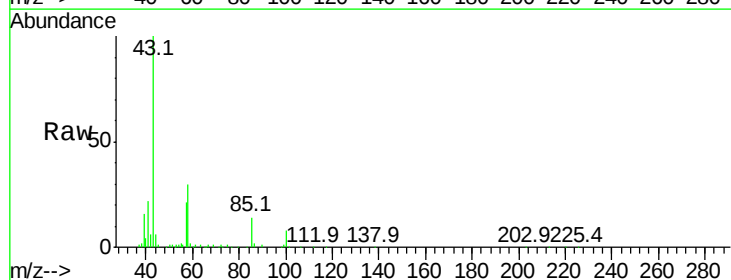
Acq: 5 Aug 2019 14:39

Tgt Ion: 43 Resp: 174196

Ion Ratio Lower Upper

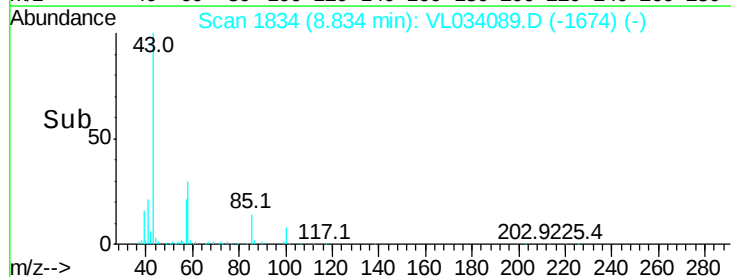
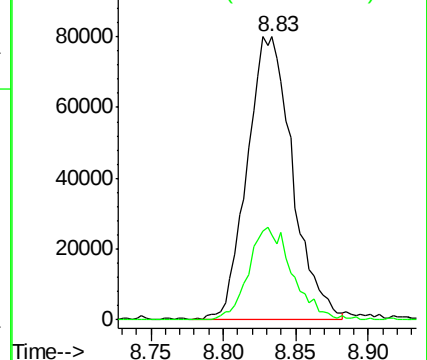
43 100

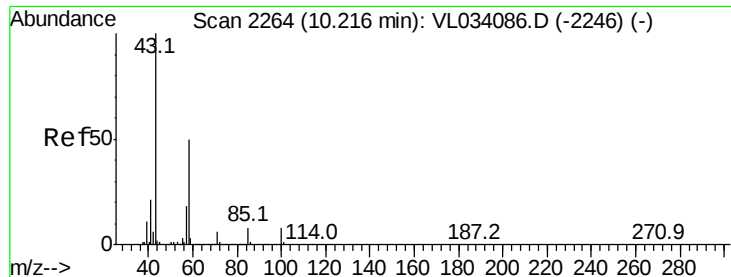
58 31.7 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

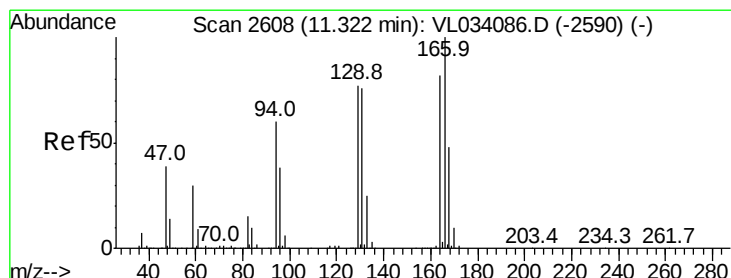
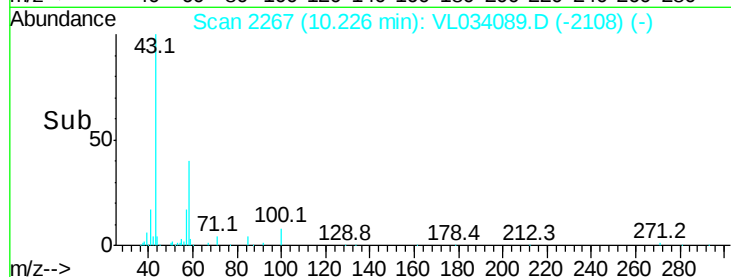
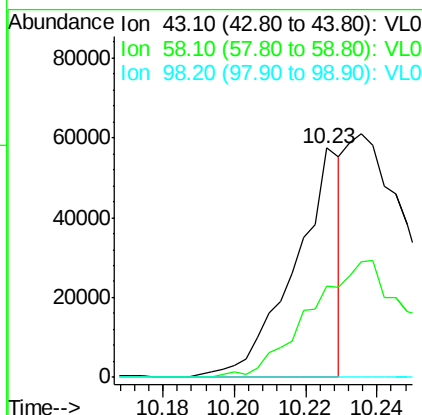
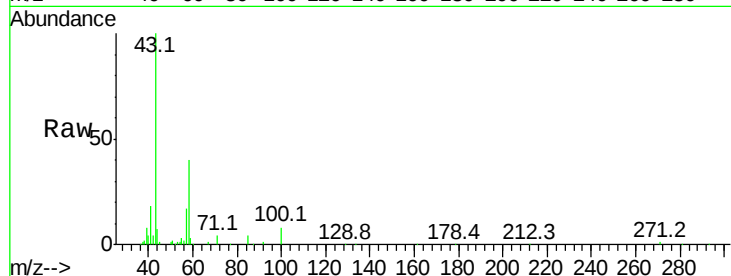




#51
2-Hexanone
Concen: 0.360 ppbv
RT: 10.23 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

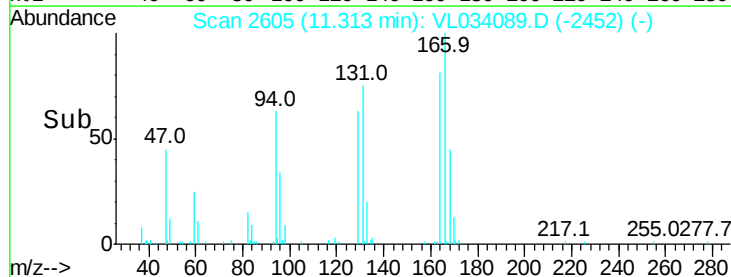
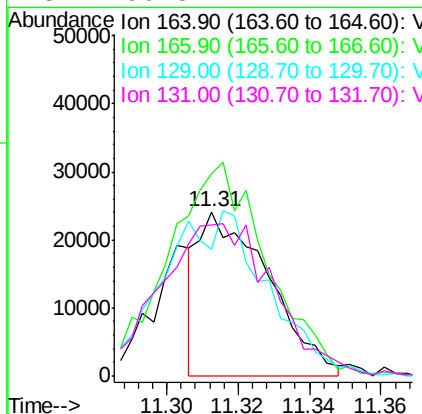
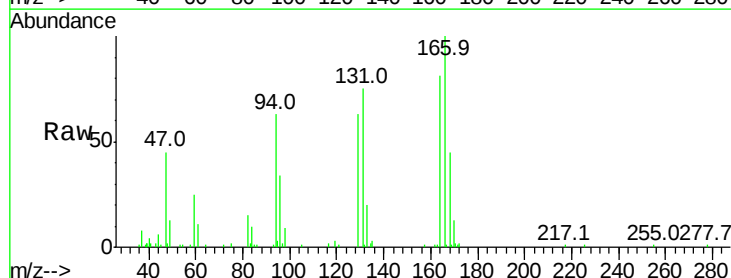
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

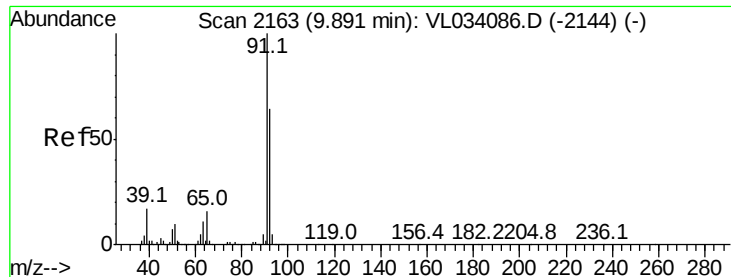
Tgt Ion: 43 Resp: 51868
Ion Ratio Lower Upper
43 100
58 0.0 38.5 57.7#
98 0.0 0.0 0.0



#52
Tetrachloroethene
Concen: 0.535 ppbv
RT: 11.31 min Scan# 2605
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion: 164 Resp: 32656
Ion Ratio Lower Upper
164 100
166 127.6 96.8 145.2
129 76.7 74.9 112.3
131 90.3 74.2 111.2





#53

Toluene

Concen: 0.757 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

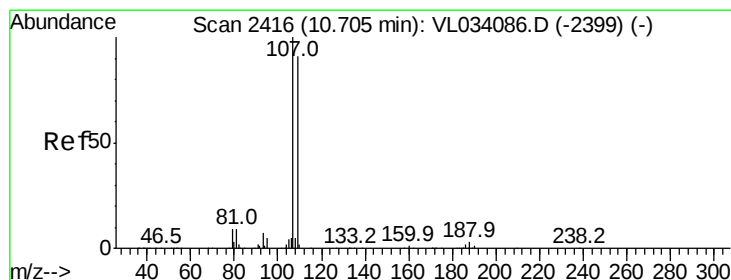
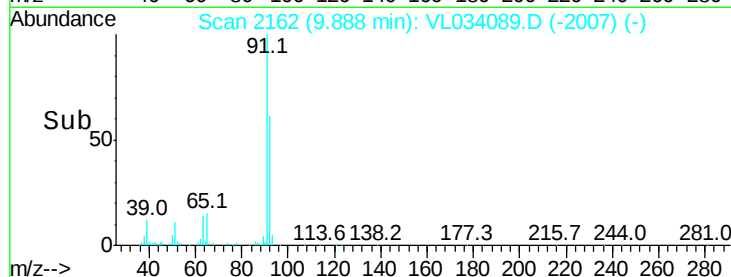
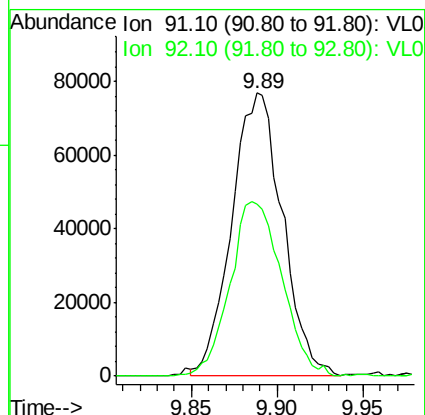
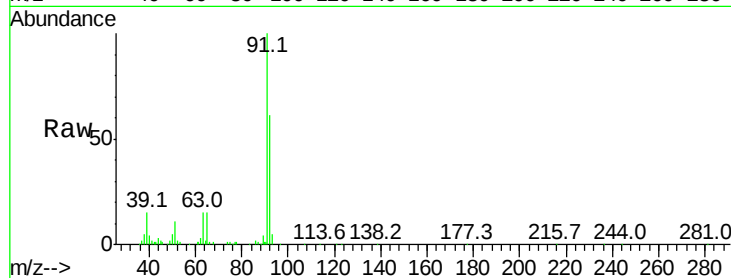
VSTDIC0.5

Tgt Ion: 91 Resp: 157375

Ion Ratio Lower Upper

91 100

92 63.3 50.3 75.5



#54

1,2-Dibromoethane

Concen: 0.649 ppbv

RT: 10.70 min Scan# 2414

Delta R.T. -0.01 min

Lab File: VL034089.D

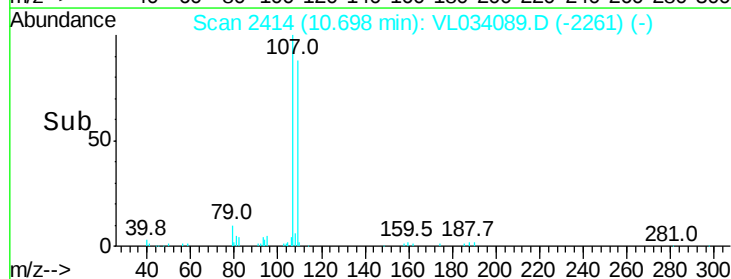
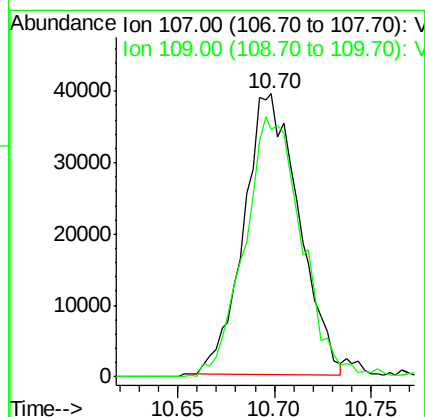
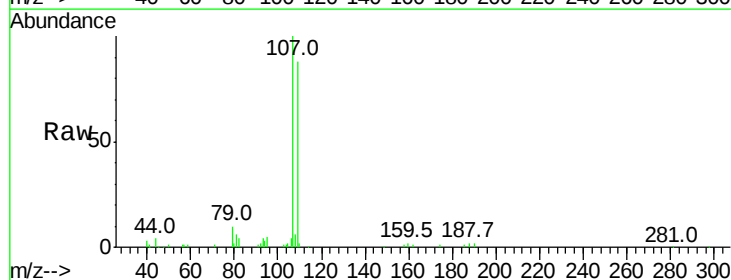
Acq: 5 Aug 2019 14:39

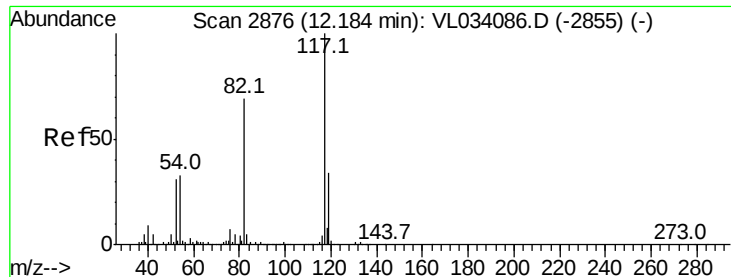
Tgt Ion: 107 Resp: 78514

Ion Ratio Lower Upper

107 100

109 87.7 72.9 109.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2874

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

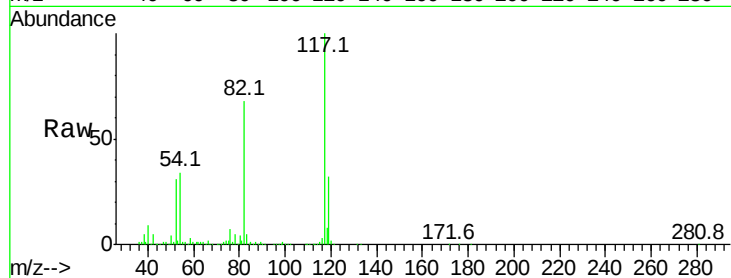
Tgt Ion:117 Resp: 2253513

Ion Ratio Lower Upper

117 100

82 68.6 52.2 78.4

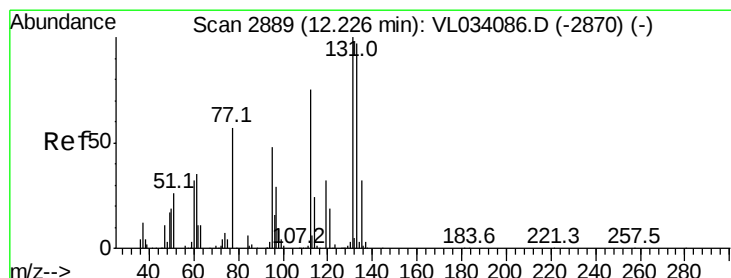
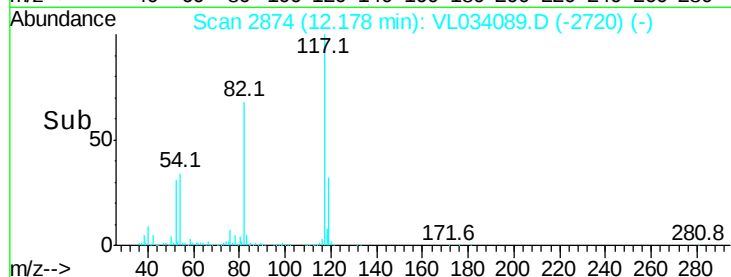
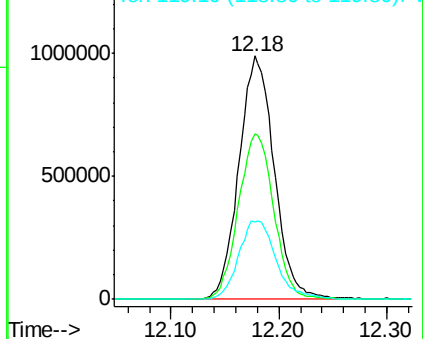
119 34.6 44.8 67.2#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.572 ppbv

RT: 12.22 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

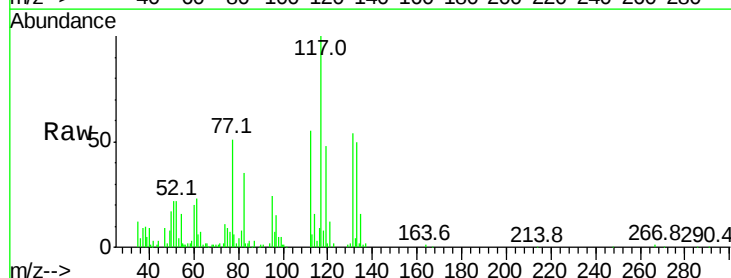
Tgt Ion:131 Resp: 56867

Ion Ratio Lower Upper

131 100

133 93.6 76.5 114.7

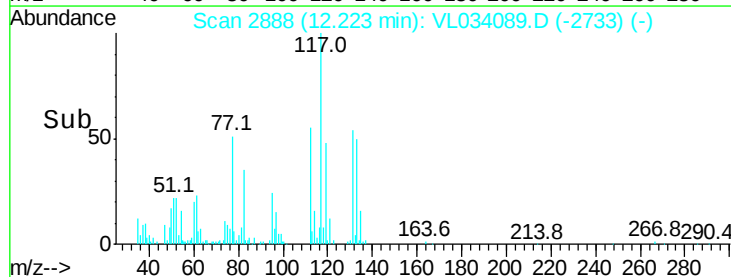
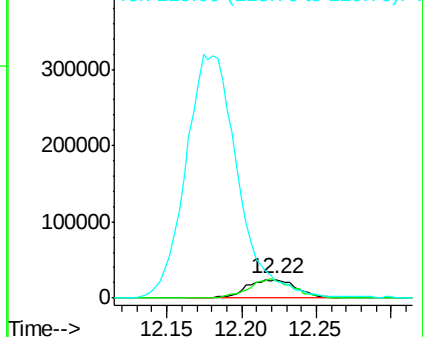
119 1369.4 114.7 172.1#

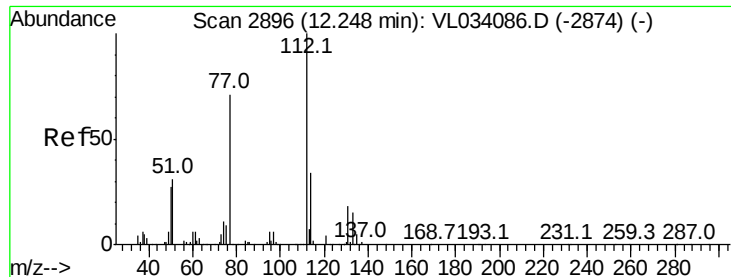


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.650 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

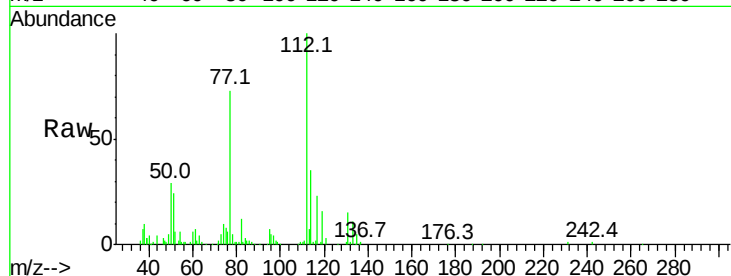
Tgt Ion: 112 Resp: 119530

Ion Ratio Lower Upper

112 100

77 70.3 57.8 86.6

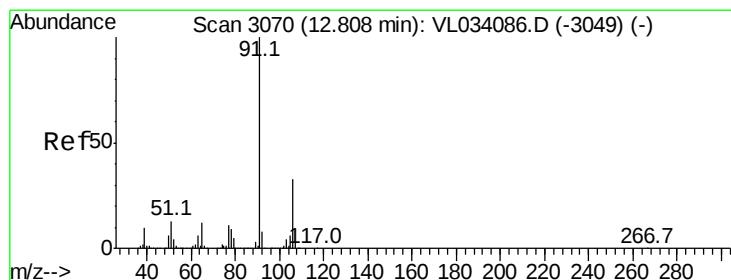
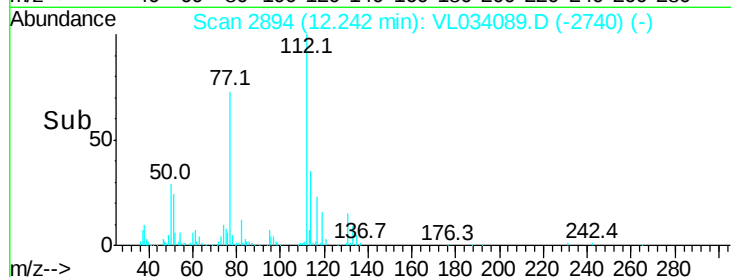
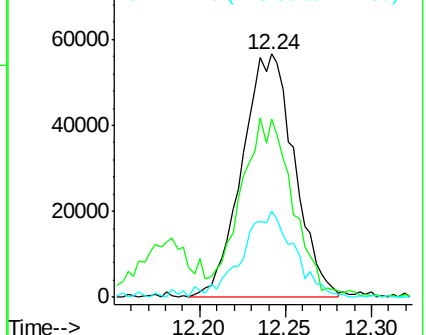
114 35.4 30.3 37.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.752 ppbv

RT: 12.80 min Scan# 3067

Delta R.T. -0.01 min

Lab File: VL034089.D

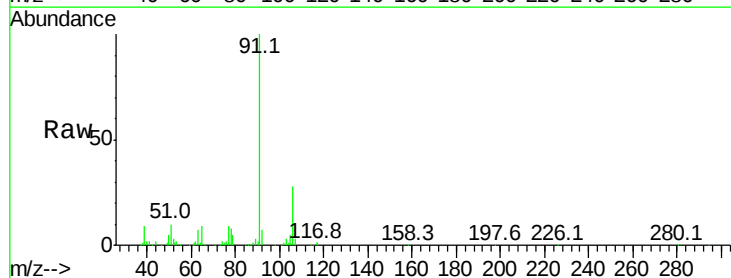
Acq: 5 Aug 2019 14:39

Tgt Ion: 91 Resp: 223667

Ion Ratio Lower Upper

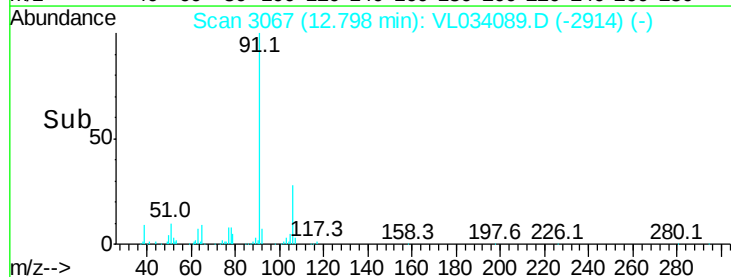
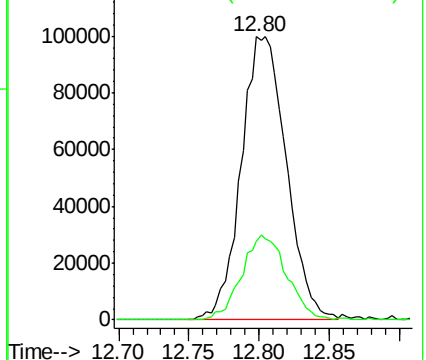
91 100

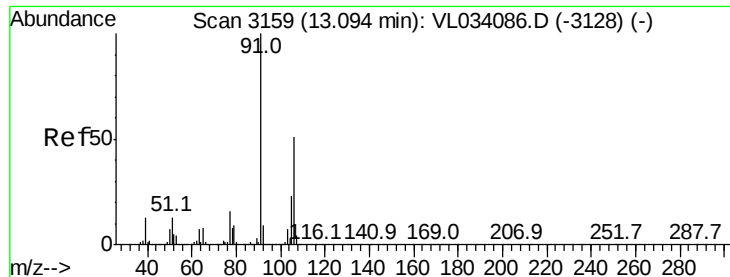
106 27.6 26.0 39.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.544 ppbv

RT: 13.09 min Scan# 3157

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

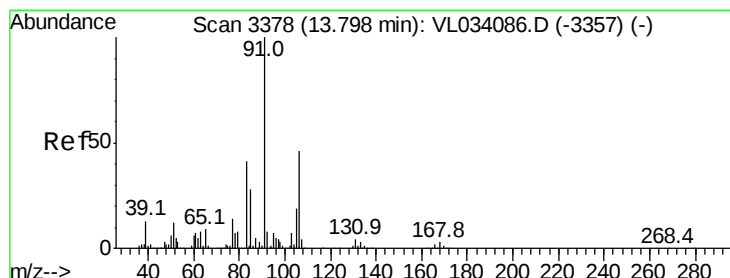
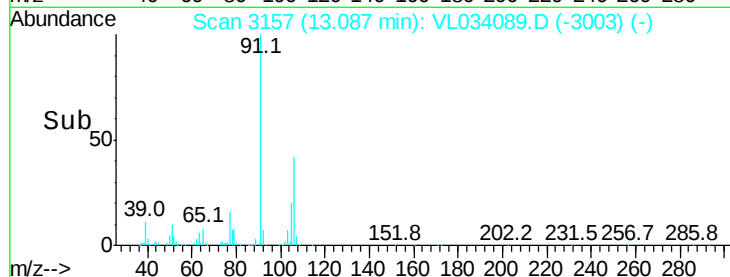
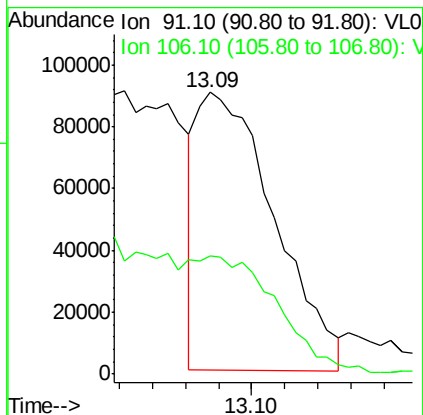
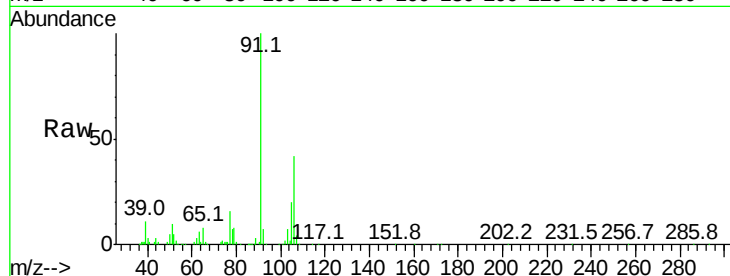
VSTDIC0.5

Tgt Ion: 91 Resp: 144688

Ion Ratio Lower Upper

91 100

106 0.0 38.7 58.1#



#60

o-Xylene

Concen: 0.674 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. -0.01 min

Lab File: VL034089.D

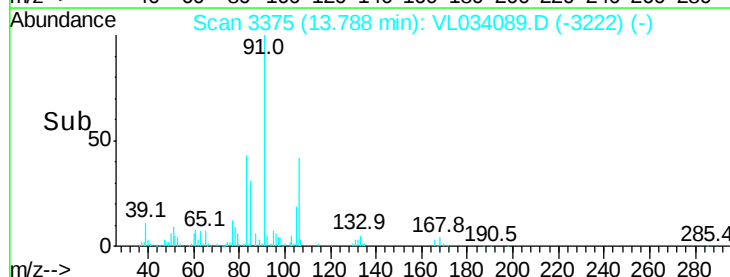
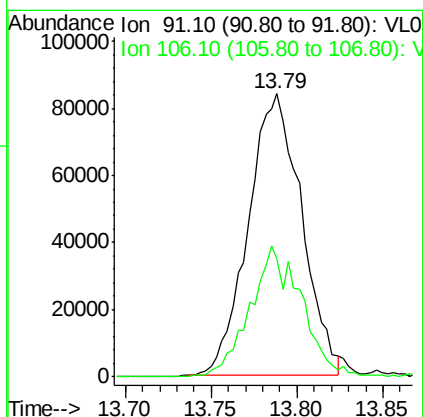
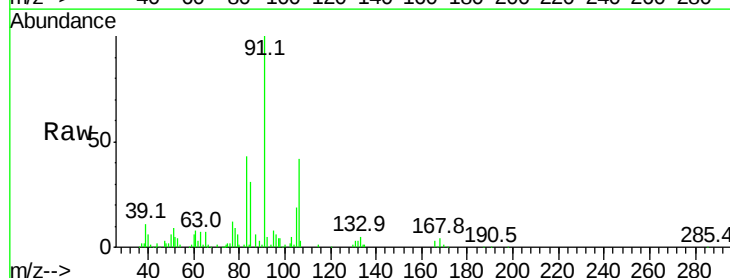
Acq: 5 Aug 2019 14:39

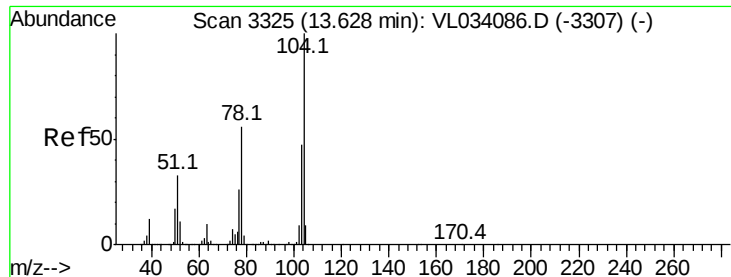
Tgt Ion: 91 Resp: 179952

Ion Ratio Lower Upper

91 100

106 45.1 22.6 67.7





#61

Styrene

Concen: 0.798 ppbv

RT: 13.62 min Scan# 3322

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

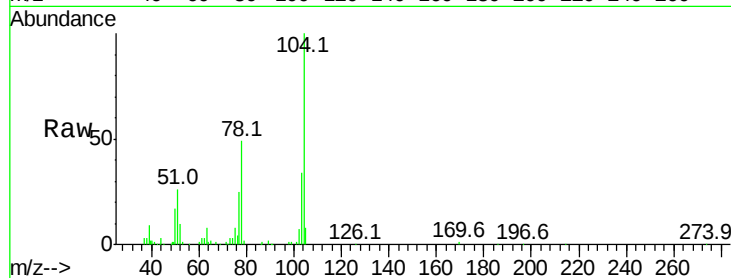
Tgt Ion:104 Resp: 139512

Ion Ratio Lower Upper

104 100

78 52.5 44.2 66.4

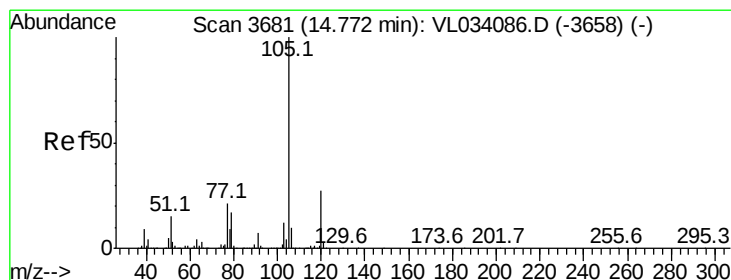
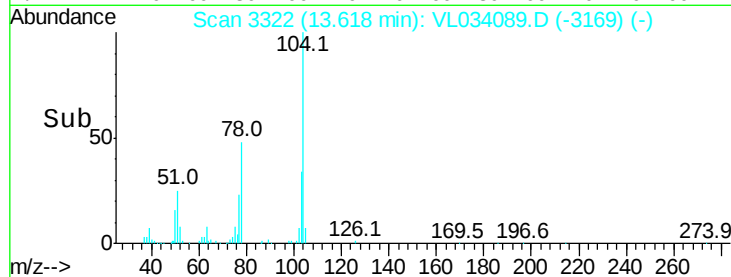
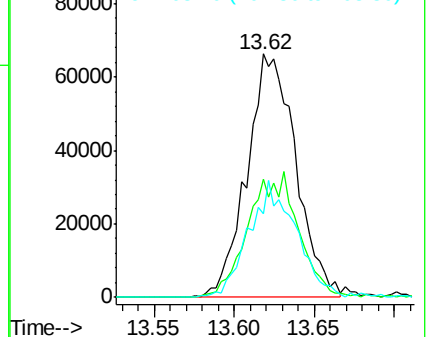
103 46.4 38.3 57.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.689 ppbv

RT: 14.76 min Scan# 3678

Delta R.T. -0.01 min

Lab File: VL034089.D

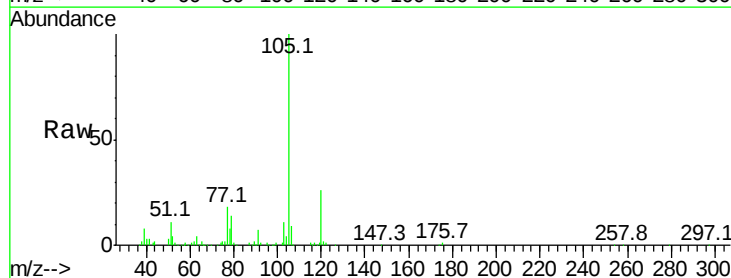
Acq: 5 Aug 2019 14:39

Tgt Ion:105 Resp: 241662

Ion Ratio Lower Upper

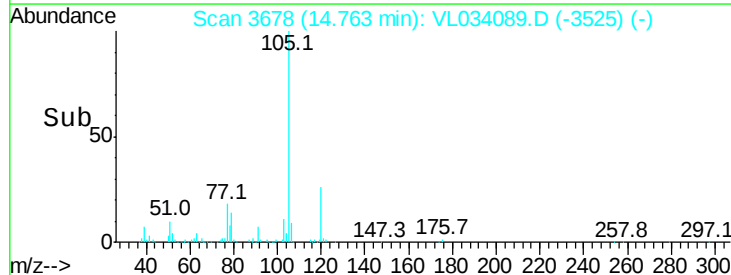
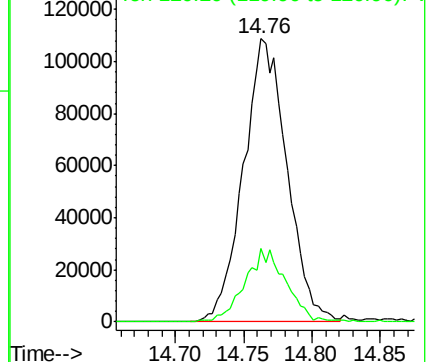
105 100

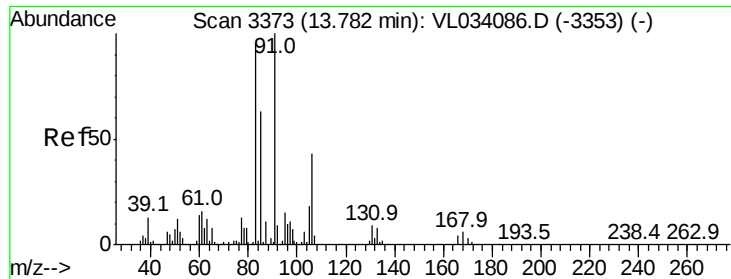
120 24.5 21.4 32.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

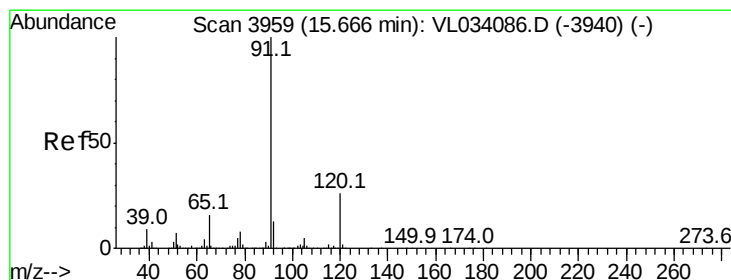
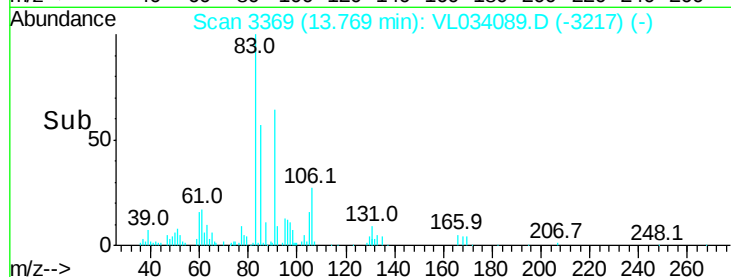
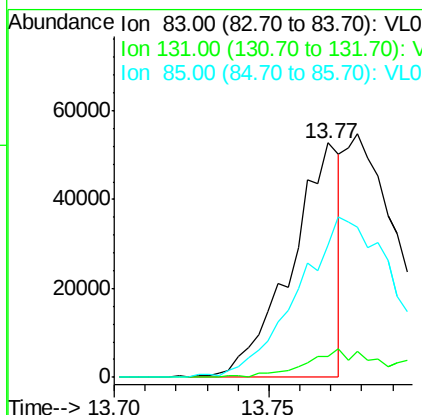
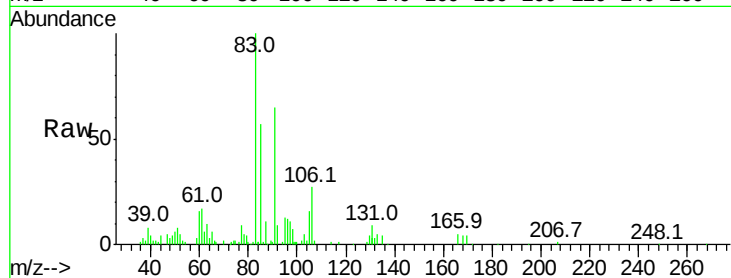




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.276 ppbv
 RT: 13.77 min Scan# 3369
 Delta R.T. -0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

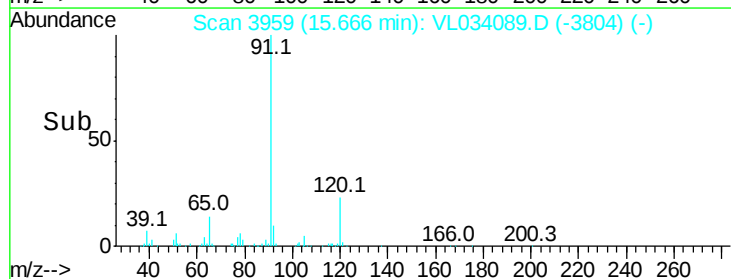
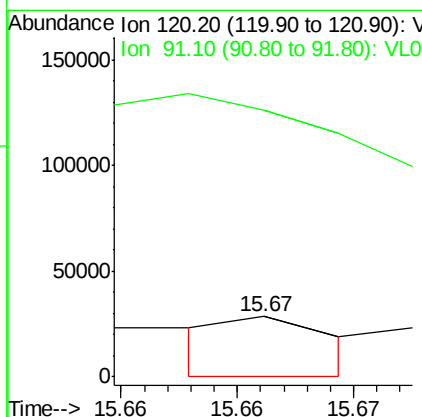
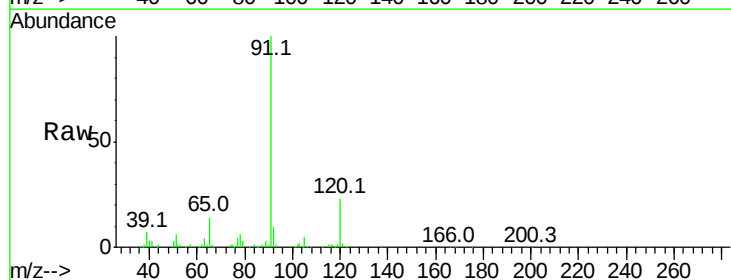
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

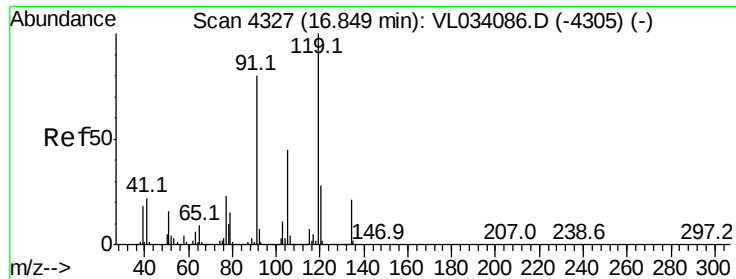
Tgt Ion: 83 Resp: 57954
 Ion Ratio Lower Upper
 83 100
 131 20.5 4.6 13.8#
 85 139.7 32.6 97.8#



#64
 n-propylbenzene
 Concen: 0.103 ppbv
 RT: 15.67 min Scan# 3959
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion: 120 Resp: 9129
 Ion Ratio Lower Upper
 120 100
 91 3344.5 359.7 539.5#





#65

tert-Butylbenzene

Concen: 0.344 ppbv

RT: 16.84 min Scan# 4325

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

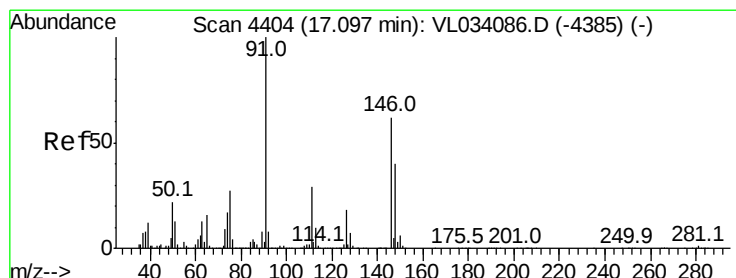
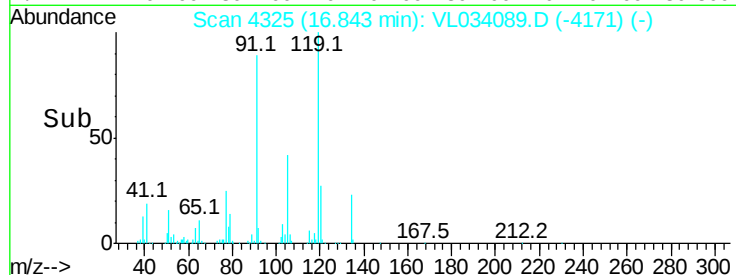
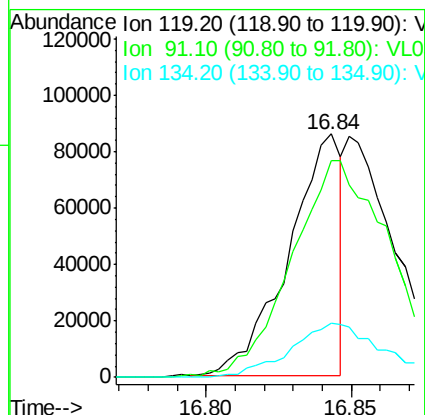
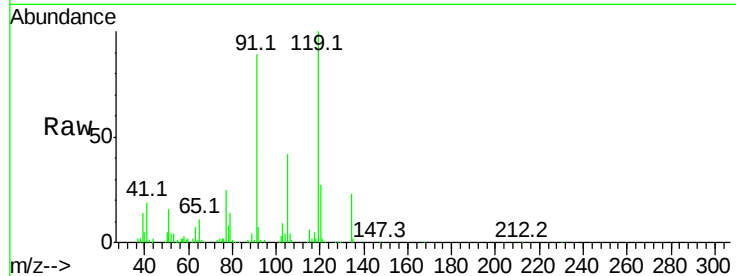
Tgt Ion:119 Resp: 108173

Ion Ratio Lower Upper

119 100

91 0.0 67.6 101.4#

134 39.2 16.0 24.0#



#66

Benzyl Chloride

Concen: 0.233 ppbv

RT: 17.09 min Scan# 4402

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

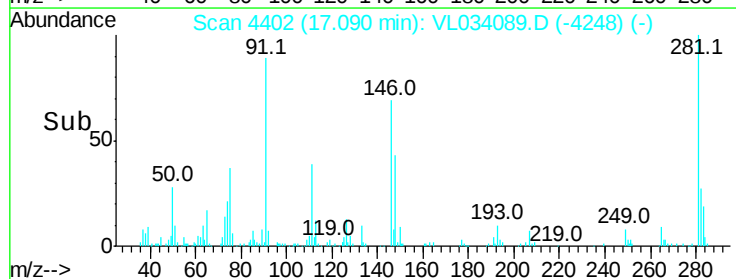
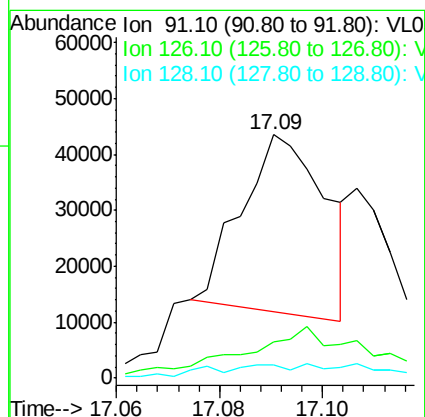
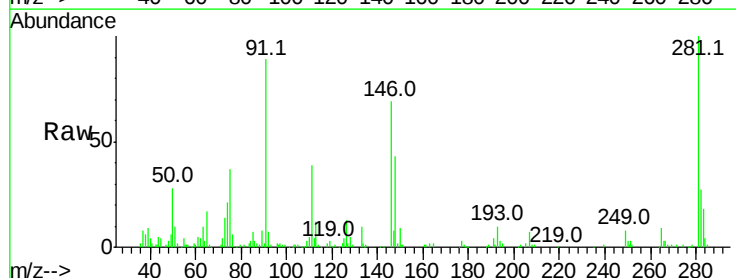
Tgt Ion: 91 Resp: 35823

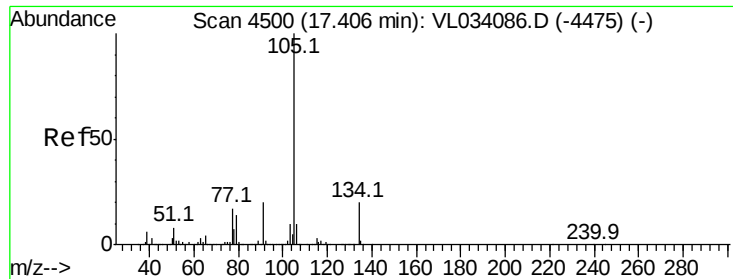
Ion Ratio Lower Upper

91 100

126 48.5 14.8 22.2#

128 0.0 4.8 7.2#

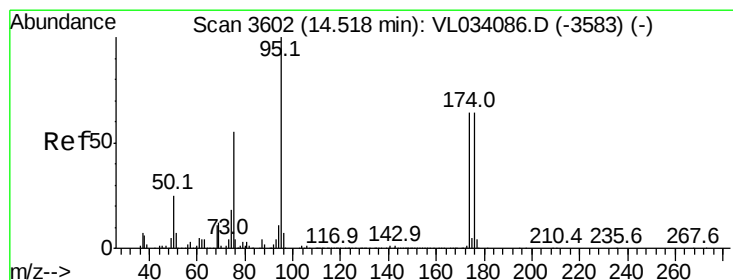
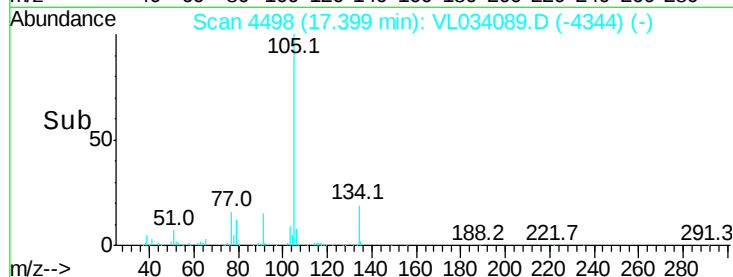
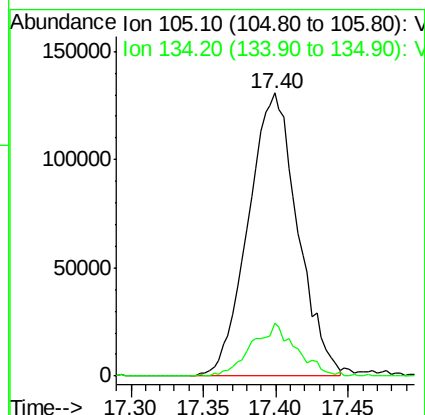
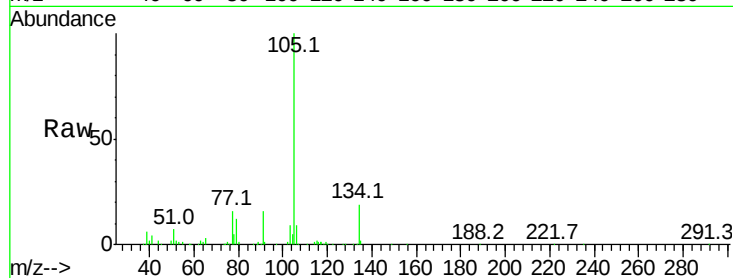




#67
 sec-Butylbenzene
 Concen: 0.686 ppbv
 RT: 17.40 min Scan# 4498
 Delta R.T. -0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

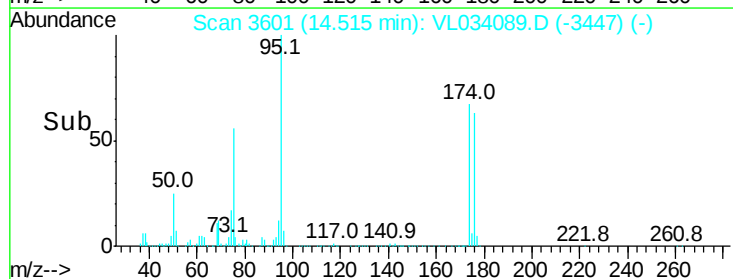
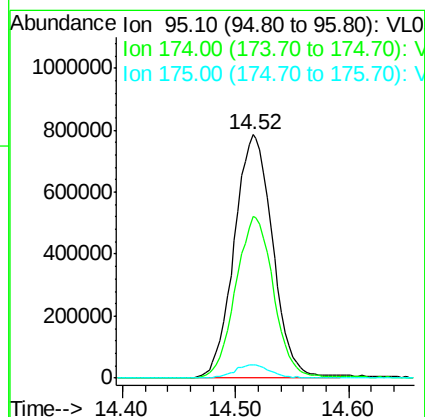
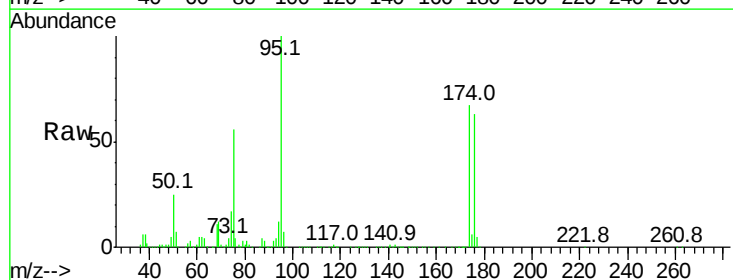
Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

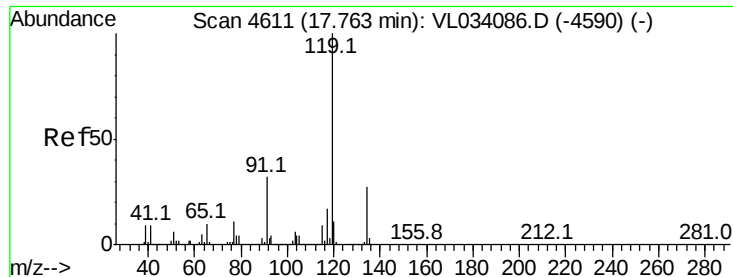
Tgt Ion: 105 Resp: 309346
 Ion Ratio Lower Upper
 105 100
 134 17.2 15.4 23.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.319 ppbv
 RT: 14.52 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion: 95 Resp: 1855485
 Ion Ratio Lower Upper
 95 100
 174 66.4 53.0 79.6
 175 5.2 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.706 ppbv

RT: 17.76 min Scan# 4609

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

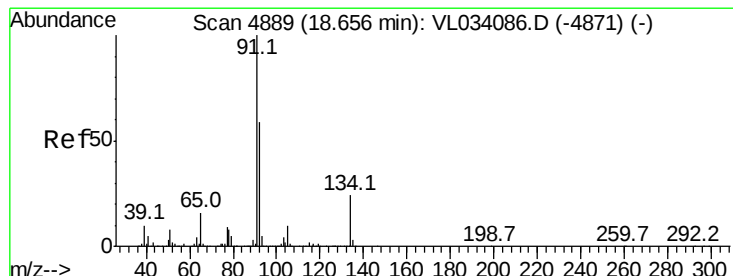
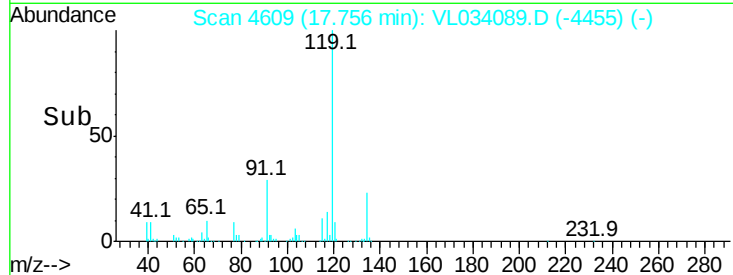
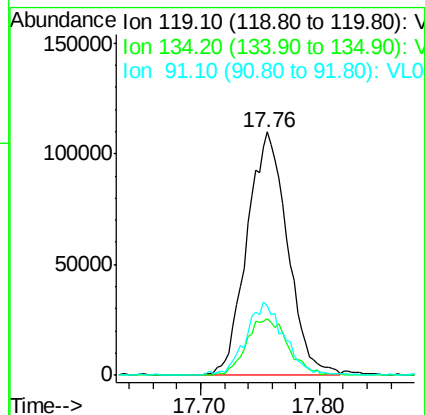
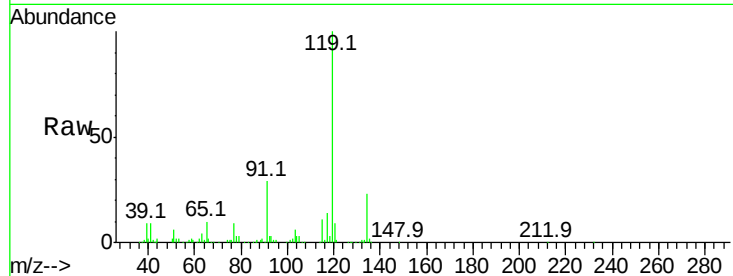
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:	119	Resp:	259182
Ion	Ratio	Lower	Upper
119	100		
134	24.0	21.3	31.9
91	28.8	25.4	38.0



#70

n-Butylbenzene

Concen: 0.369 ppbv

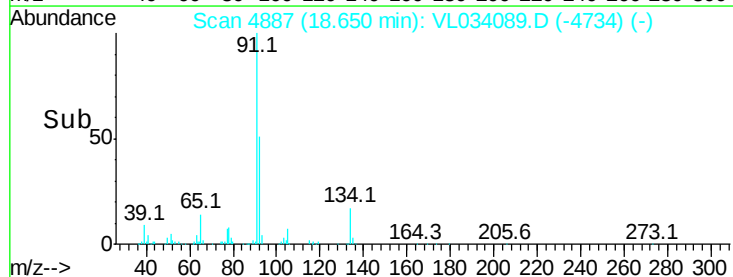
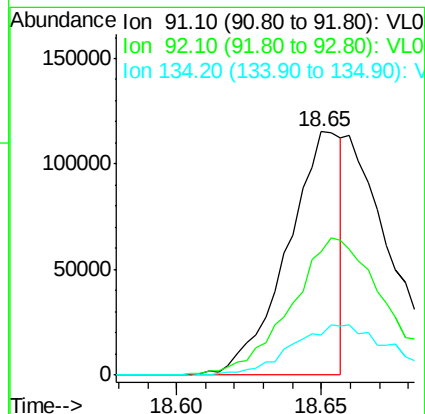
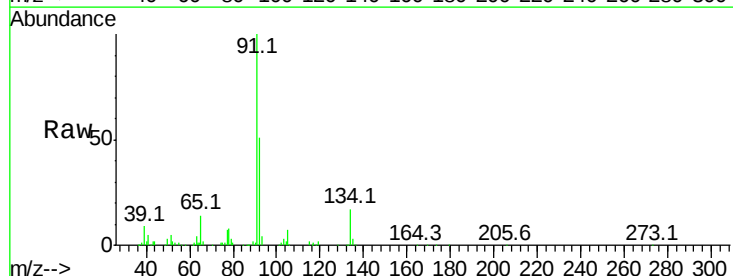
RT: 18.65 min Scan# 4887

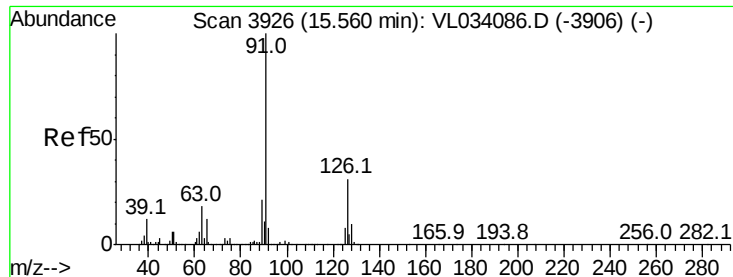
Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:	91	Resp:	147928
Ion	Ratio	Lower	Upper
91	100		
92	101.1	45.9	68.9#
134	38.7	19.0	28.4#





#71

2-Chlorotoluene

Concen: 0.752 ppbv

RT: 15.55 min Scan# 3923

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

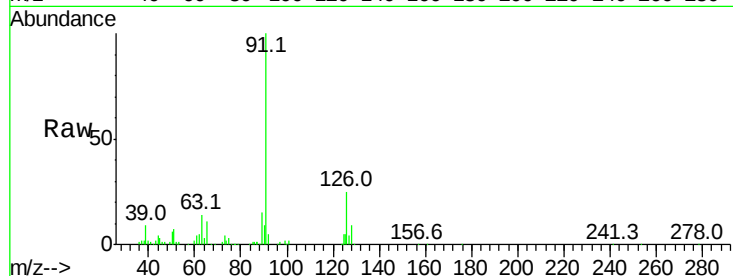
VSTDIC0.5

Tgt Ion: 91 Resp: 195160

Ion Ratio Lower Upper

91 100

126 28.9 12.2 48.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

150000

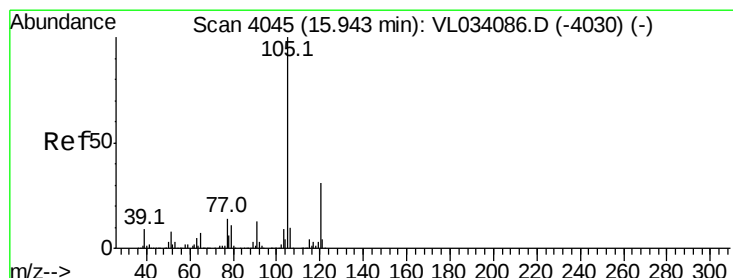
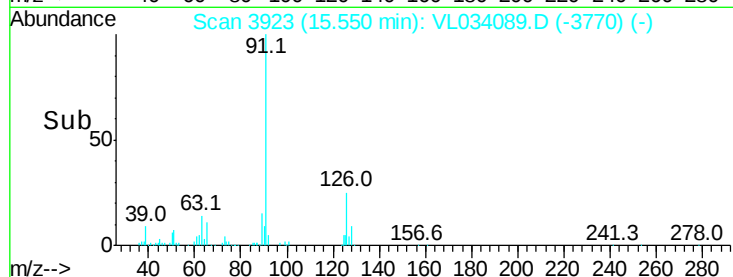
100000

50000

0

15.45 15.50 15.55 15.60

Time-->



#72

4-Ethyltoluene

Concen: 0.685 ppbv

RT: 15.94 min Scan# 4044

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion: 105 Resp: 205023

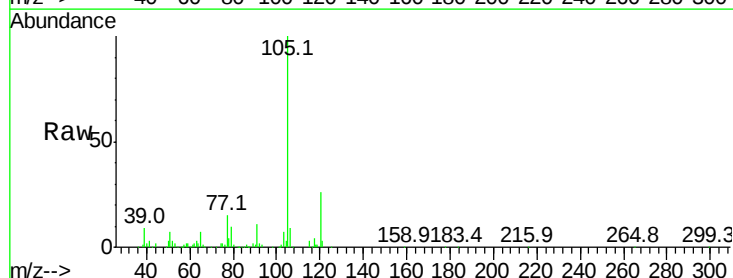
Ion Ratio Lower Upper

105 100

120 27.6 24.2 36.2

91 13.8 10.5 15.7

77 15.0 11.9 17.9



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

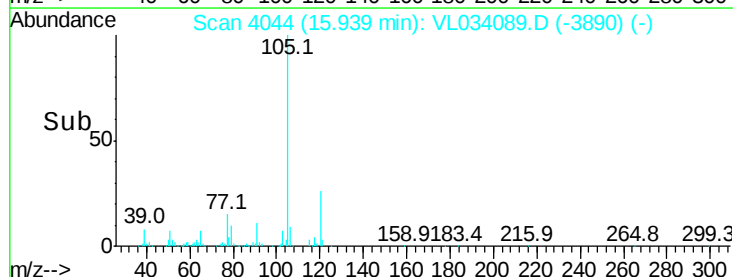
100000

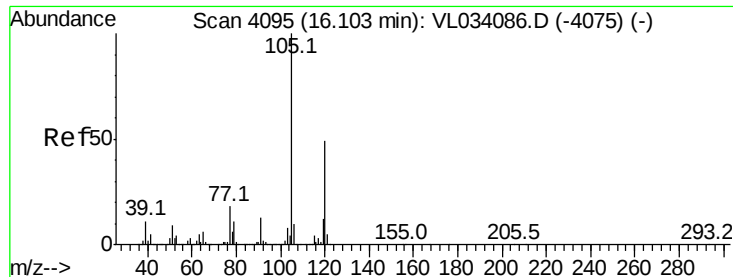
50000

0

15.85 15.90 15.95 16.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 0.666 ppbv

RT: 16.09 min Scan# 4092

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

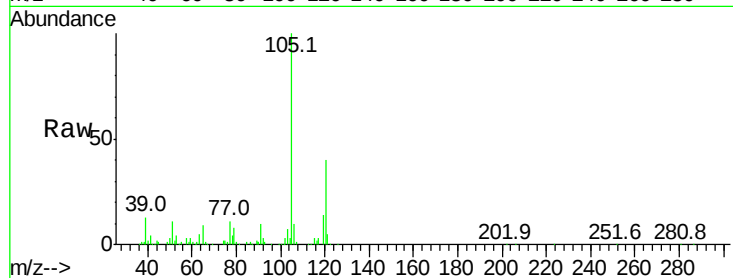
VSTDIC0.5

Tgt Ion:105 Resp: 196383

Ion Ratio Lower Upper

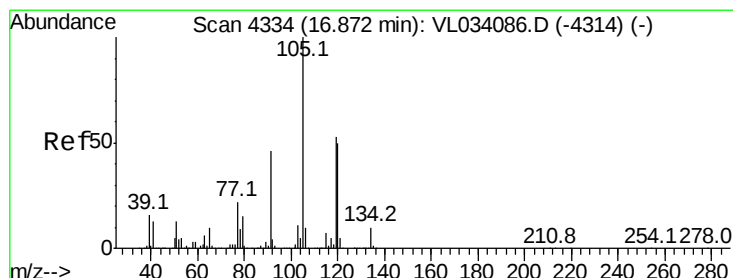
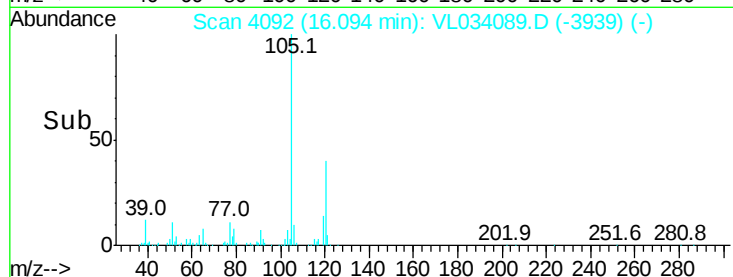
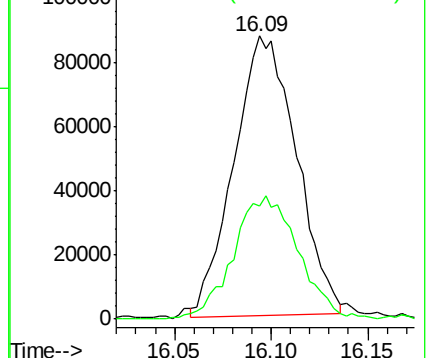
105 100

120 39.6 39.0 58.4



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: 0.667 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:105 Resp: 217361

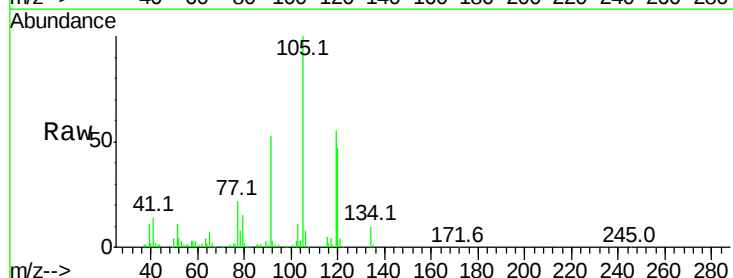
Ion Ratio Lower Upper

105 100

120 46.3 40.2 60.4

91 52.4 38.1 57.1

77 21.7 17.8 26.8

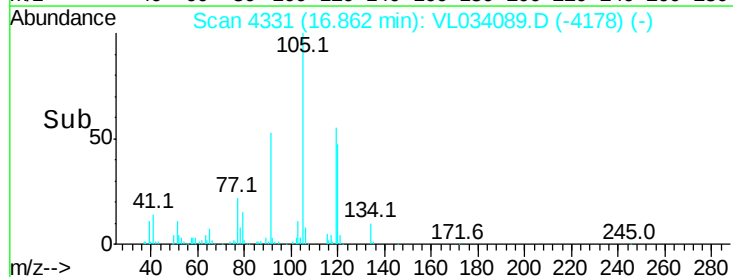
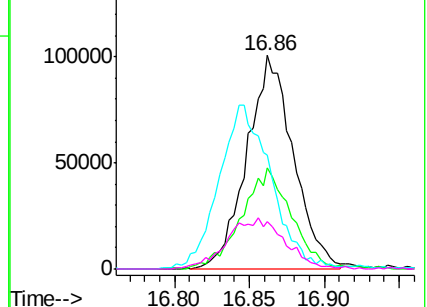


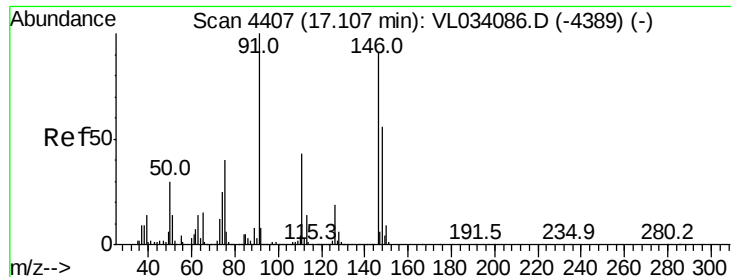
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.225 ppbv

RT: 17.09 min Scan# 4403

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

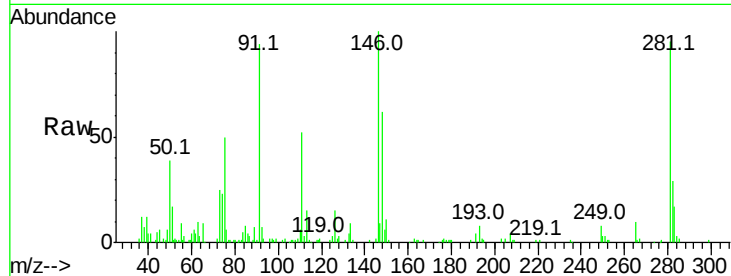
Tgt Ion:146 Resp: 43463

Ion Ratio Lower Upper

146 100

111 0.0 23.8 71.5#

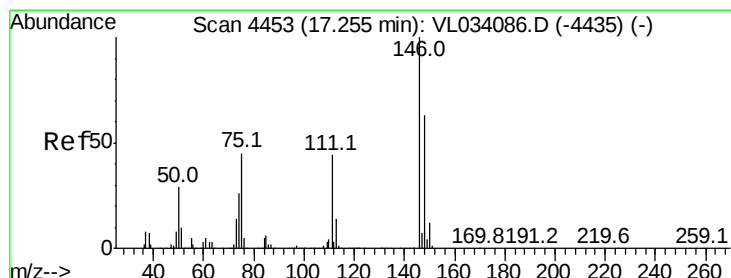
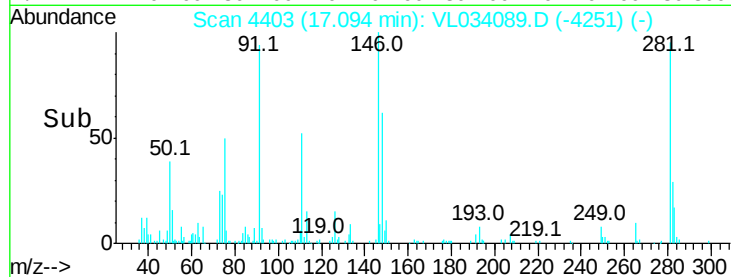
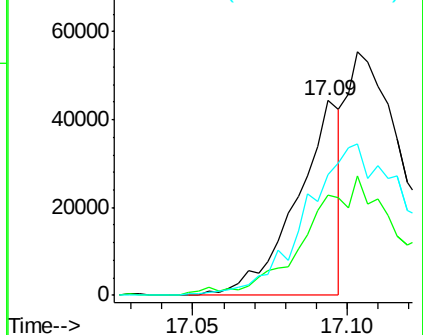
148 0.0 32.4 97.2#



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: 0.651 ppbv

RT: 17.25 min Scan# 4451

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

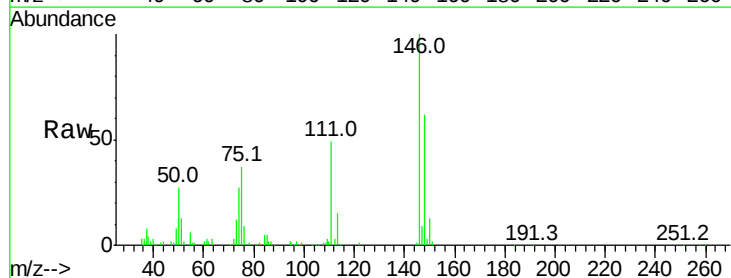
Tgt Ion:146 Resp: 118731

Ion Ratio Lower Upper

146 100

111 46.0 23.2 69.5

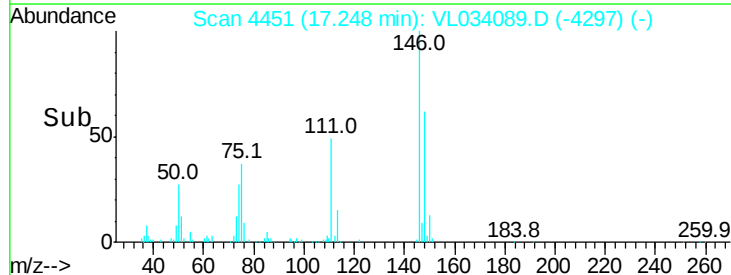
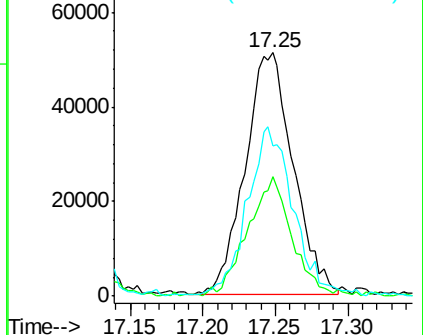
148 67.5 32.1 96.5

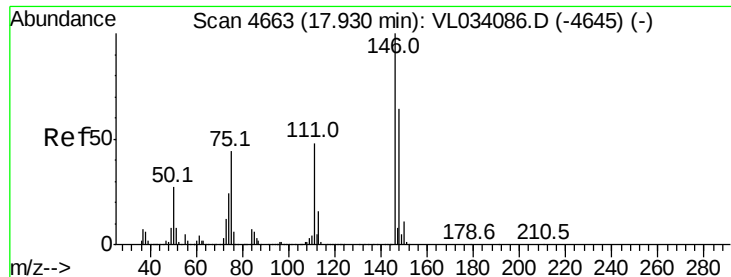


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.635 ppbv

RT: 17.93 min Scan# 4662

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

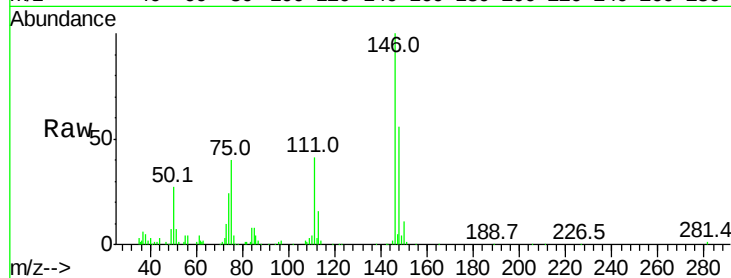
Tgt Ion:146 Resp: 115092

Ion Ratio Lower Upper

146 100

111 50.5 24.0 72.0

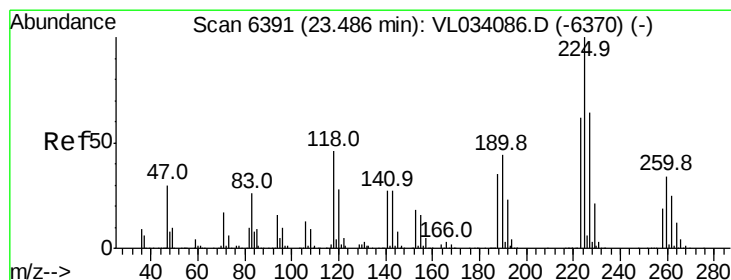
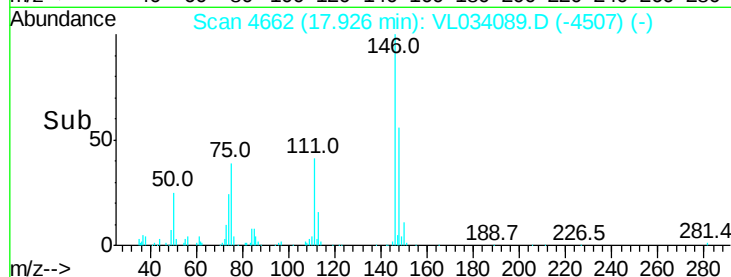
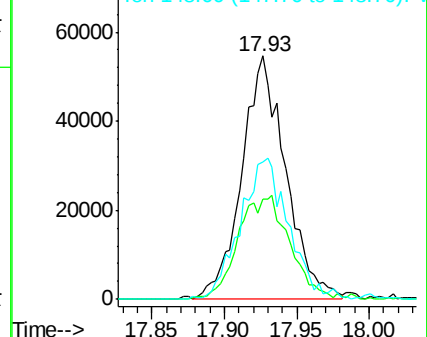
148 63.8 31.9 95.7



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: 0.273 ppbv

RT: 23.48 min Scan# 6389

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

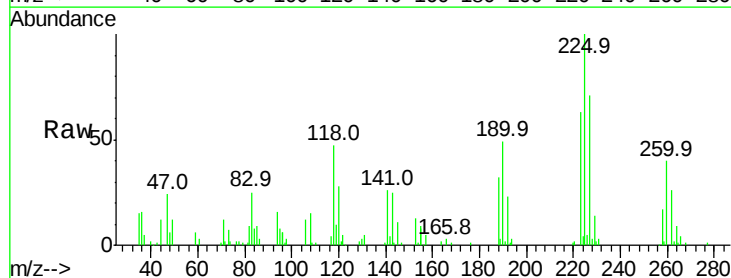
Tgt Ion:225 Resp: 45434

Ion Ratio Lower Upper

225 100

223 0.0 50.8 76.2#

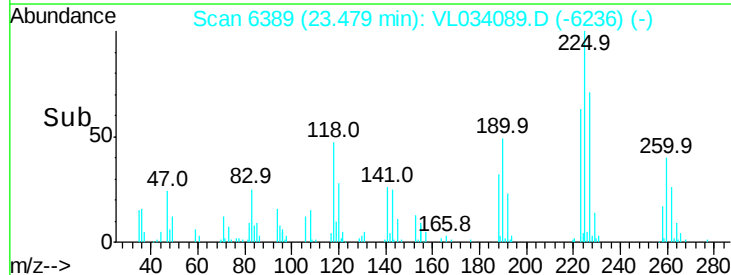
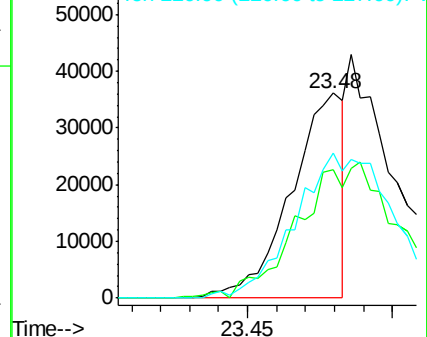
227 135.8 52.2 78.2#

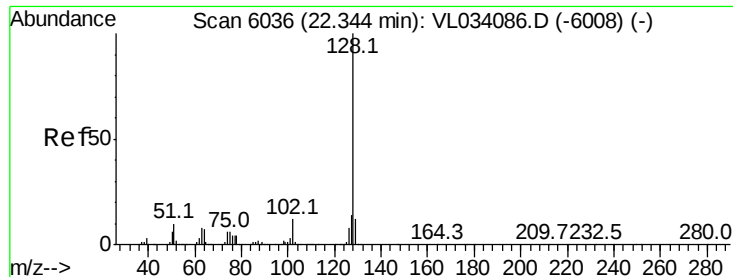


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

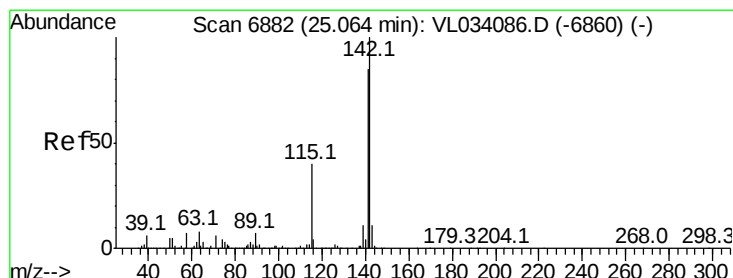
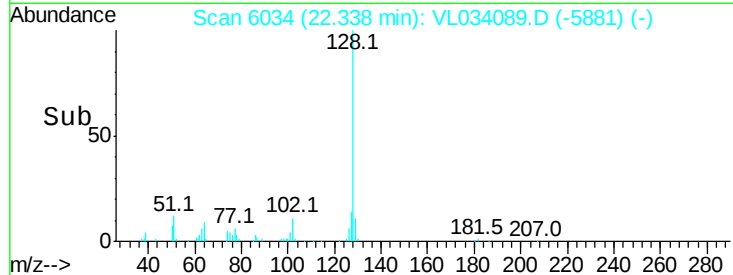
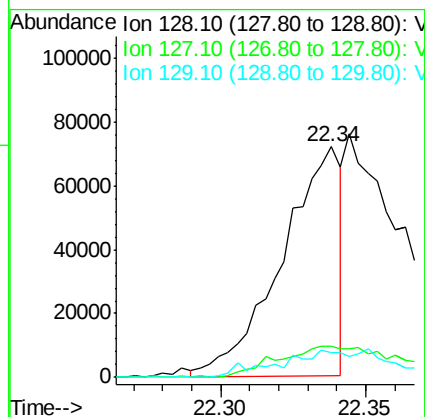
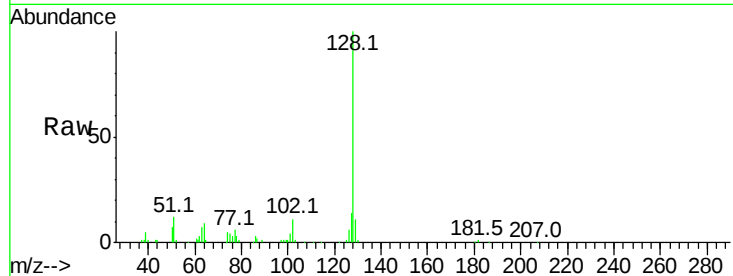




#79
Naphthalene
Concen: 0.350 ppbv
RT: 22.34 min Scan# 6034
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

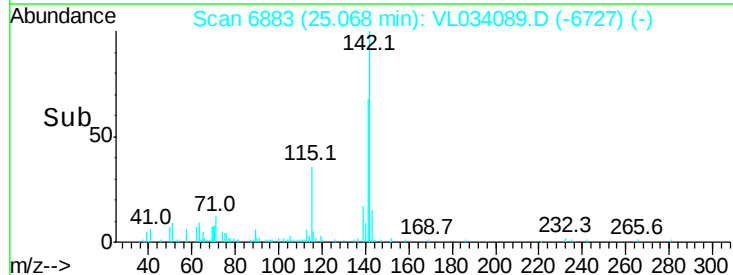
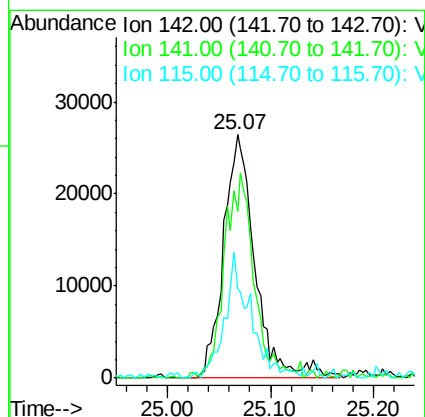
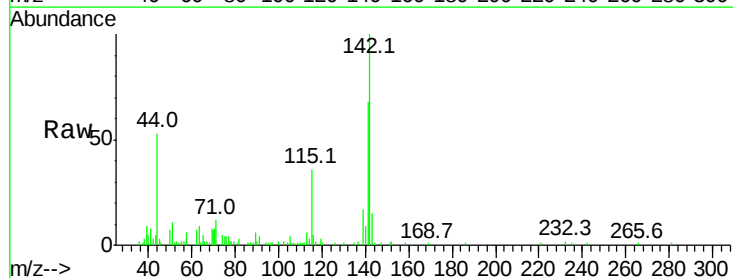
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

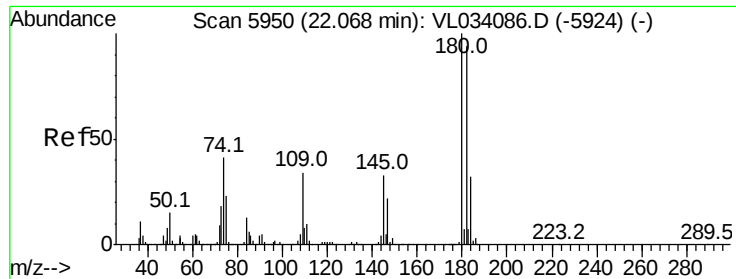
Tgt Ion:128 Resp: 102090
Ion Ratio Lower Upper
128 100
127 14.0 11.0 16.6
129 10.5 9.2 13.8



#80
Naphthalene, 2-methyl-
Concen: 0.502 ppbv
RT: 25.07 min Scan# 6883
Delta R.T. 0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion:142 Resp: 56296
Ion Ratio Lower Upper
142 100
141 78.0 66.1 99.1
115 41.8 30.8 46.2





#81
 1,2,4-Trichlorobenzene
 Concen: 0.415 ppbv
 RT: 22.06 min Scan# 5949
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 74922
 Ion Ratio Lower Upper
 180 100
 182 157.7 76.7 115.1#
 184 51.5 25.0 37.4#

